FIELD EXPERIMENT HISTORY

Title: **Corn Hybrid Growth and Development**

Experiment: 01GD **Trial ID:** 6048 **Year:** 2016

Personnel: Joe Lauer, Kent Kohn, Thierno Diallo

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

Supported By: HATCH

Site Information

Field: ARS406 **Previous Crop:** Alfalfa **Soil Type:** Plano Silt Loam

Soil Test: **Date:** 10/1 /16 **pH:** 6.2 **OM (%)** 3.3 **P (ppm)** 26 **K (ppm)** 79

Plot Management

Tillage Operations: Disk Chisel Field Cultivator Cultivated

Fertilizer:

Preplant Analysis:	N/A	**Rate lbs/A:** N/A	**Date:**	N/A
Starter Analysis:	9-23-30	**Rate lbs/A:** 200 lbs/A	**Date:**	5 /3 /16
Post plant Analysis:	N/A	**Rate lbs/A:** N/A	**Date:**	N/A
Manure:	10456 gal/A			

Herbicide: Dual II Mag 24 oz/A
Hornet 4.0 oz/A

Insecticide: Force 3G 4.4 lbs/A

Hybrid: Factor

Irrigation: None

Planting Date: 5/3/16 **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' **Harvest Plant Density:** 35606 **plants per acre**

Factors/Treatments:

Hybrid (RM):

1). Dekalb DKC30-19RIB (80)
2). Jung 4D178RIB (82)
3). InVision FS36TV4RIB (86)
4). NK Brand N18Q-3011A (86)
5). Dahlman R44-26VT2PRIB (89)
6). Pioneer P9188AM (91)
7). Great Lakes 4548STXRIB (95)
8). Channel 195-58STXRIB (95)
9). LG Seeds LG5499STXRIB (100)
10). Pioneer P0157AMX (101)
11). Dekalb DKC54-38RIB (104)
12). NuTech/G2 5H-806 (106)
13). Tracy Seeds T108-26(Vip3110) (108)
14). AgriGold A6462STXRIB (110)
15). LG Seeds LG5618STXRIB (112)
16). Dekalb DKC65-71 (115)

Results: Table 1601-01 & 1601-02.

Table: 1601-01. Determining Corn Hybrid Maturity - Comparison of Hybrids. Arlington, WI - 2016.

Hybrid	Relative maturity	Grain yield	Grain moisture	Test wt	Lodged			AGI	Silking	Early	Kernel Milk			Black	Plant	Ethanol	
					Total	Stalk	Root	$3.44	date	dent	75%	50%	25%	layer	height	per bu	per A
		bu/A	%	lb/bu	%	%	%	$/A	----------doy----------						inches	--gallons--	
Dekalb DKC30-19RIB	80	185	17.4	60	2	1	1	587	192	221	228	234	241	251	100	2.90	538
Jung 4D178RIB	82	247	18.0	56	0	0	0	781	191	225	231	238	245	255	107	2.91	718
InVision FS36TV4RIB	86	223	18.0	57	0	0	0	705	193	222	230	236	245	254	109	2.96	660
NK Brand N18Q-3011A	86	239	19.8	57	0	0	0	748	193	222	228	235	242	252	112	2.94	703
Dahlman R44-26VT2PRIB	89	250	19.7	56	0	0	0	780	192	224	230	237	243	250	110	2.94	734
Pioneer P9188AM	91	246	20.6	56	0	0	0	763	194	228	235	242	247	256	115	2.91	715
Great Lakes 4548STXRIB	95	266	19.8	55	0	0	0	832	197	229	236	242	251	261	117	2.95	786
Channel 195-58STXRIB	95	253	20.4	54	2	0	2	786	196	231	237	243	249	257	114	2.90	733
LG Seeds LG5499STXRIB	100	286	20.8	52	0	0	0	887	198	233	239	243	251	259	114	2.93	837
Pioneer P0157AMX	101	278	22.2	54	1	0	1	855	199	230	235	242	252	263	116	2.92	813
Dekalb DKC54-38RIB	104	278	21.3	53	1	0	0	859	198	231	239	243	252	261	114	2.94	815
NuTech/G2 5H-806	106	279	22.3	55	1	0	1	859	201	234	241	246	254	266	121	2.92	817
Tracy Seeds T108-26(Vip3110)	108	262	23.7	53	0	0	0	797	201	234	244	250	258	267	117	2.90	758
AgriGold A6462STXRIB	110	292	25.3	53	1	0	0	880	200	233	240	248	255	267	121	2.91	848
LG Seeds LG5618STXRIB	112	285	26.7	53	0	0	0	851	201	233	240	246	256	268	117	2.90	826
Dekalb DKC65-71	115	296	26.8	51	0	0	0	883	201	233	241	248	257	270	118	2.90	858
Mean		260	21.4	55	1	0	0	803	197	229	236	242	250	260	114	2.92	760
Probability(%)																	
Hybrid (H)		0.0	0.0	0.0	58.9	76.1	44.1	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)		12	0.9	2	NS	NS	NS	40	2	2	3	3	3	2	4	0.02	37

Table: 1601-02. Determining Corn Hybrid Maturity - Comparison of Hybrids. Arlington, WI - 2016.

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
Dekalb DKC30-19RIB	80		10.9	12.3	13.1	61.1
Jung 4D178RIB	82		11.2	12.9	13.5	59.6
InVision FS36TV4RIB	86		11.0	12.4	13.1	59.1
NK Brand N18Q-3011A	86		10.9	12.3	13.2	55.9
Dahlman R44-26VT2PRIB	89		11.4	12.8	13.5	59.8
Pioneer P9188AM	91		10.8	12.3	13.0	61.0
Channel 195-58STXRIB	95		11.0	12.4	13.1	61.1
Great Lakes 4548STXRIB	95		10.1	11.3	12.4	58.5
LG Seeds LG5499STXRIB	100		11.1	12.5	13.1	59.7
Pioneer P0157AMX	101		10.2	11.8	12.6	60.5
Dekalb DKC54-38RIB	104		11.1	12.3	13.0	58.8
NuTech/G2 5H-806	106		11.0	12.3	12.9	59.5
Tracy Seeds T108-26(Vip3110)	108		10.0	11.7	12.3	63.1
AgriGold A6462STXRIB	110		10.8	12.2	12.8	58.0
LG Seeds LG5618STXRIB	112		11.1	12.4	13.0	60.7
Dekalb DKC65-71	115		10.4	11.8	12.6	60.0
		146	1.7	2.9	3.5	3.3
		158	4.5	6.6	7.2	11.1
		172	7.7	10.8	12.5	34.7
		187	12.6	14.7	16.1	82.4
		201	19.1	19.2	19.2	113.6
		214	19.1	19.2	19.2	113.7
Dekalb DKC30-19RIB	80	146	1.7	3.0	3.3	2.8
Dekalb DKC30-19RIB	80	158	4.8	6.7	7.5	10.8
Dekalb DKC30-19RIB	80	172	8.0	11.8	13.7	35.3
Dekalb DKC30-19RIB	80	187	13.8	15.2	16.5	84.3
Dekalb DKC30-19RIB	80	201	18.2	18.2	18.2	102.0
Dekalb DKC30-19RIB	80	214	18.8	18.8	19.2	100.3
Jung 4D178RIB	82	146	2.0	3.0	4.0	3.6
Jung 4D178RIB	82	158	5.0	7.7	8.3	11.5
Jung 4D178RIB	82	172	8.3	13.2	14.0	37.2
Jung 4D178RIB	82	187	14.0	15.3	16.7	87.7
Jung 4D178RIB	82	201	18.8	18.8	18.8	111.7
Jung 4D178RIB	82	214	19.2	19.2	19.3	106.7

continued

Table: 1601-02. Determining Corn Hybrid Maturity - Comparison of Hybrids. Arlington, WI - 2016.

(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
InVision FS36TV4RIB	86	146	2.0	3.0	3.7	3.1
InVision FS36TV4RIB	86	158	4.7	6.7	7.5	10.7
InVision FS36TV4RIB	86	172	8.0	11.3	13.2	35.0
InVision FS36TV4RIB	86	187	13.5	15.2	16.3	82.8
InVision FS36TV4RIB	86	201	19.0	19.0	19.0	110.8
InVision FS36TV4RIB	86	214	19.0	19.0	19.0	108.5
NK Brand N18Q-3011A	86	146	1.8	3.0	3.8	3.9
NK Brand N18Q-3011A	86	158	5.0	7.0	8.0	12.3
NK Brand N18Q-3011A	86	172	8.0	11.5	13.2	35.8
NK Brand N18Q-3011A	86	187	13.3	14.8	16.2	83.5
NK Brand N18Q-3011A	86	201	18.8	18.8	18.8	110.0
NK Brand N18Q-3011A	86	214	18.5	18.7	19.2	111.5
Dahlman R44-26VT2PRIB	89	146	2.0	3.0	3.8	3.3
Dahlman R44-26VT2PRIB	89	158	5.0	6.8	7.7	11.5
Dahlman R44-26VT2PRIB	89	172	8.0	11.7	13.7	35.7
Dahlman R44-26VT2PRIB	89	187	14.0	15.5	16.8	83.0
Dahlman R44-26VT2PRIB	89	201	19.7	19.7	19.7	111.7
Dahlman R44-26VT2PRIB	89	214	19.8	19.8	19.3	109.5
Pioneer P9188AM	91	146	2.0	3.0	4.0	3.3
Pioneer P9188AM	91	158	5.0	6.7	7.5	11.5
Pioneer P9188AM	91	172	8.0	11.5	12.8	36.0
Pioneer P9188AM	91	187	12.5	14.8	16.2	83.0
Pioneer P9188AM	91	201	18.8	18.8	18.8	115.7
Pioneer P9188AM	91	214	18.7	18.7	18.7	114.8
Channel 195-58STXRIB	95	146	1.7	2.7	3.5	3.3
Channel 195-58STXRIB	95	158	4.2	6.2	7.0	10.5
Channel 195-58STXRIB	95	172	7.8	10.7	12.8	34.7
Channel 195-58STXRIB	95	187	12.8	15.3	16.7	81.2
Channel 195-58STXRIB	95	201	19.8	19.8	19.8	114.0
Channel 195-58STXRIB	95	214	19.5	19.5	18.8	114.0
Great Lakes 4548STXRIB	95	146	1.3	2.0	3.0	3.1
Great Lakes 4548STXRIB	95	158	4.0	6.0	6.8	11.0
Great Lakes 4548STXRIB	95	172	7.2	9.7	12.0	35.5
Great Lakes 4548STXRIB	95	187	11.8	14.0	15.7	84.2
Great Lakes 4548STXRIB	95	201	18.2	18.2	18.2	116.2
Great Lakes 4548STXRIB	95	214	18.2	18.2	18.8	116.7

continued

Table: 1601-02. Determining Corn Hybrid Maturity - Comparison of Hybrids. Arlington, WI - 2016.
(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
LG Seeds LG5499STXRIB	100	146	2.0	3.0	3.8	3.9
LG Seeds LG5499STXRIB	100	158	4.8	7.0	7.5	12.0
LG Seeds LG5499STXRIB	100	172	8.0	11.3	12.7	36.2
LG Seeds LG5499STXRIB	100	187	12.7	14.8	16.3	82.0
LG Seeds LG5499STXRIB	100	201	19.7	19.7	19.7	115.3
LG Seeds LG5499STXRIB	100	214	19.2	19.2	18.8	113.7
Pioneer P0157AMX	101	146	1.2	2.5	3.2	3.1
Pioneer P0157AMX	101	158	4.0	5.8	6.7	10.0
Pioneer P0157AMX	101	172	7.0	10.3	11.8	30.7
Pioneer P0157AMX	101	187	12.0	14.7	16.0	77.3
Pioneer P0157AMX	101	201	18.2	18.3	18.3	111.3
Pioneer P0157AMX	101	214	18.8	19.0	19.3	115.7
Dekalb DKC54-38RIB	104	146	1.8	3.0	3.7	3.8
Dekalb DKC54-38RIB	104	158	4.8	7.0	7.0	11.0
Dekalb DKC54-38RIB	104	172	8.0	10.0	12.3	35.0
Dekalb DKC54-38RIB	104	187	12.8	14.7	16.2	81.5
Dekalb DKC54-38RIB	104	201	19.7	19.7	19.7	113.5
Dekalb DKC54-38RIB	104	214	19.7	19.7	19.2	114.2
NuTech/G2 5H-806	106	146	2.0	2.7	3.8	3.3
NuTech/G2 5H-806	106	158	4.5	6.5	7.0	12.2
NuTech/G2 5H-806	106	172	8.2	10.3	11.5	35.8
NuTech/G2 5H-806	106	187	12.0	14.7	15.8	85.0
NuTech/G2 5H-806	106	201	19.5	19.5	19.5	121.3
NuTech/G2 5H-806	106	214	19.8	19.8	19.7	121.2
Tracy Seeds T108-26(Vip3110)	108	146	1.0	3.0	3.0	3.0
Tracy Seeds T108-26(Vip3110)	108	158	3.8	5.8	6.2	10.5
Tracy Seeds T108-26(Vip3110)	108	172	7.0	10.0	11.3	33.5
Tracy Seeds T108-26(Vip3110)	108	187	11.0	13.7	15.2	81.8
Tracy Seeds T108-26(Vip3110)	108	201	18.3	18.7	18.7	114.8
Tracy Seeds T108-26(Vip3110)	108	214	18.7	18.8	19.2	116.5
AgriGold A6462STXRIB	110	146	1.5	3.0	3.0	2.8
AgriGold A6462STXRIB	110	158	4.3	6.5	6.8	11.0
AgriGold A6462STXRIB	110	172	7.2	9.7	11.8	33.3
AgriGold A6462STXRIB	110	187	11.8	14.5	15.8	81.3
AgriGold A6462STXRIB	110	201	20.0	20.0	20.0	117.5
AgriGold A6462STXRIB	110	214	19.7	19.7	19.5	120.8

continued

Table: 1601-02. Determining Corn Hybrid Maturity - Comparison of Hybrids. Arlington, WI - 2016.
(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
LG Seeds LG5618STXRIB	112	146	1.7	2.8	3.2	3.1
LG Seeds LG5618STXRIB	112	158	4.5	6.0	6.5	11.0
LG Seeds LG5618STXRIB	112	172	7.5	10.2	11.8	31.2
LG Seeds LG5618STXRIB	112	187	12.0	14.8	16.3	76.8
LG Seeds LG5618STXRIB	112	201	20.7	20.7	20.7	114.2
LG Seeds LG5618STXRIB	112	214	20.2	20.2	19.7	116.7
Dekalb DKC65-71	115	146	2.0	3.0	3.8	3.0
Dekalb DKC65-71	115	158	4.0	6.5	7.0	10.5
Dekalb DKC65-71	115	172	7.3	9.7	11.5	34.0
Dekalb DKC65-71	115	187	11.5	13.8	15.7	83.0
Dekalb DKC65-71	115	201	18.8	18.8	18.8	117.3
Dekalb DKC65-71	115	214	18.7	18.7	18.8	118.3
Mean			10.8	12.2	13.0	59.8
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	0.2	1.1
Day Of Year (D)			0.1	0.1	0.1	0.7
H x D			0.5	0.5	0.5	2.8

FIELD EXPERIMENT HISTORY

Title: **Corn Hybrid Growth and Development**

Experiment: 01GD **Trial ID:** 6152 **Year:** 2016

Personnel: Joe Lauer, Kent Kohn, Thierno Diallo

Location: Montfort, WI **County:** Iowa

Supported By: HATCH

Site Information

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

Soil Test: **Date:** 10/1 /16 **pH:** 5.8 **OM (%)** 4.2 **P (ppm)** 52 **K (ppm)** 153

Plot Management

Tillage Operations: Chisel plow Soil Finisher

Fertilizer:

Preplant Analysis:	46-0-0	**Rate lbs/A:** 250 lbs/A	**Date:**	N/A
Starter Analysis:	9-23-30	**Rate lbs/A:** 200lbs/A	**Date:**	5 /5 /16
Post plant Analysis:	32-0-0	**Rate lbs/A:** 20 gal/A	**Date:**	N/A
Manure:	N/A			

Herbicide: Acuron 1.75 pt/A **Insecticide:** Force 3G 4.4 lbs/A

Irrigation: None **Hybrid:** Factor

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

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

Harvest Date: 10/11/16 **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:

Hybrid (RM):

1). Dekalb DKC30-19RIB (80)
2). Jung 4D178RIB (82)
3). InVision FS36TV4RIB (86)
4). NK Brand N18Q-3011A (86)
5). Dahlman R44-26VT2PRIB (89)
6). Pioneer P9188AM (91)
7). Great Lakes 4548STXRIB (95)
8). Channel 195-58STXRIB (95)
9). LG Seeds LG5499STXRIB (100)
10). Pioneer P0157AMX (101)
11). Dekalb DKC54-38RIB (104)
12). NuTech/G2 5H-806 (106)
13). Tracy Seeds T108-26(Vip3110) (108)
14). AgriGold A6462STXRIB (110)
15). LG Seeds LG5618STXRIB (112)
16). Dekalb DKC65-71 (115)

Results: Table 1601-03.

Table: 1601-03. Determining Corn Hybrid Maturity - Comparison of Hybrids. Montfort, WI - 2016.

Hybrid	Relative maturity	Harvest density	Grain yield	Grain moisture	Test weight	Lodged			AGI
						Total	Stalk	Root	$3.44
		plants/A	bu/A	%	lb/bu	%	%	%	$/A
Dekalb DKC30-19RIB	80	30555	117	15.3	57	10	8	2	374
Jung 4D178RIB	82	32197	205	15.8	56	2	1	0	655
InVision FS36TV4RIB	86	32323	187	15.5	57	0	0	0	599
NK Brand N18Q-3011A	86	29545	198	18.4	57	2	2	0	624
Dahlman R44-26VT2PRIB	89	32828	206	16.6	56	1	1	0	657
Pioneer P9188AM	91	28787	218	18.6	56	2	2	0	685
Great Lakes 4548STXRIB	95	34343	258	18.0	57	1	1	0	816
Channel 195-58STXRIB	95	32323	229	19.2	55	0	0	0	718
LG Seeds LG5499STXRIB	100	31313	225	20.5	54	0	0	0	700
Pioneer P0157AMX	101	28661	242	20.4	55	0	0	0	754
Dekalb DKC54-38RIB	104	31186	241	20.0	55	0	0	0	752
NuTech/G2 5H-806	106	30681	258	20.8	58	1	1	0	800
Tracy Seeds T108-26(Vip3110)	108	32070	244	23.3	54	0	0	0	744
AgriGold A6462STXRIB	110	34974	266	24.6	54	0	0	0	805
LG Seeds LG5618STXRIB	112	32702	260	25.7	55	0	0	0	782
Dekalb DKC65-71	115	31565	263	24.8	52	0	0	0	795
Mean		31628	226	19.8	55.5	1	1	0	704
Probability(%)									
Hybrid (H)		6.7	0.0	0.0	0.3	0.1	2.5	8.8	0.0
LSD(0.10)									
Hybrid (H)		3063	26	0.8	2	3	3	1	81

FIELD EXPERIMENT HISTORY

Title: **Corn Hybrid Growth and Development**

Experiment: 01GD **Trial ID:** 6151 **Year:** 2016

Personnel: Joe Lauer, Kent Kohn, Thierno Diallo

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

Supported By: HATCH

Site Information

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

Soil Test: **Date:** 10/1 /16 **pH:** 6.3 **OM (%)** 3 **P (ppm)** 37 **K (ppm)** 114

Plot Management

Tillage Operations: Field Cultivator

Fertilizer:

Preplant Analysis:	N/A	**Rate lbs/A:** N/A	**Date:**	N/A
Starter Analysis:	9-23-30	**Rate lbs/A:** 200 lbs/A	**Date:**	5 /5 /16
Post plant Analysis:	32-0-0	**Rate lbs/A:** 30 gal/A	**Date:**	N/A
Manure:	N/A			

Herbicide: Roundup 32 oz/A
Parallel 1.7 pt/A
Hornet WDG 3.0 oz/A

Insecticide: Force 3G 4.4 lbs/A

Hybrid: Factor

Irrigation: None

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

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

Harvest Date: 10/19/16 **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:** 31810 **plants per acre**

Factors/Treatments:

Hybrid (RM):

1). Dekalb DKC30-19RIB (80)
2). Jung 4D178RIB (82)
3). InVision FS36TV4RIB (86)
4). NK Brand N18Q-3011A (86)
5). Dahlman R44-26VT2PRIB (89)
6). Pioneer P9188AM (91)
7). Great Lakes 4548STXRIB (95)
8). Channel 195-58STXRIB (95)
9). LG Seeds LG5499STXRIB (100)
10). Pioneer P0157AMX (101)
11). Dekalb DKC54-38RIB (104)
12). NuTech/G2 5H-806 (106)
13). Tracy Seeds T108-26(Vip3110) (108)
14). AgriGold A6462STXRIB (110)
15). LG Seeds LG5618STXRIB (112)
16). Dekalb DKC65-71 (115)

Results: Table 1601-04.

Table: 1601-04. Determining Corn Hybrid Maturity - Comparison of Hybrids. Marshfield, WI - 2016.

Hybrid	Relative maturity	Harvest density	Grain yield	Grain moisture	Test weight	Lodged			AGI
						Total	Stalk	Root	$3.44
		plants/A	bu/A	%	lb/bu	%	%	%	$/A
Dekalb DKC30-19RIB	80	32323	166	19.2	59	6	6	0	519
Jung 4D178RIB	82	32828	208	19.1	54	4	4	0	651
InVision FS36TV4RIB	86	32070	193	19.6	57	5	5	0	603
NK Brand N18Q-3011A	86	31565	221	20.2	56	1	1	0	689
Dahlman R44-26VT2PRIB	89	32323	193	20.3	54	5	5	0	602
Pioneer P9188AM	91	30303	234	21.1	54	1	1	0	724
Great Lakes 4548STXRIB	95	31439	222	21.6	53	1	1	0	687
Channel 195-58STXRIB	95	31313	220	21.7	53	2	2	0	679
LG Seeds LG5499STXRIB	100	32323	242	24.7	52	2	2	0	733
Pioneer P0157AMX	101	30681	233	25.9	53	1	1	0	701
Dekalb DKC54-38RIB	104	32828	243	25.7	54	0	0	0	729
NuTech/G2 5H-806	106	31439	256	24.9	53	0	0	0	773
Tracy Seeds T108-26(Vip3110)	108	31565	222	27.1	50	1	1	0	663
AgriGold A6462STXRIB	110	32449	264	29.3	54	0	0	0	775
LG Seeds LG5618STXRIB	112	30176	228	33.1	54	0	0	0	653
Dekalb DKC65-71	115	33333	240	32.4	55	1	1	0	690
Mean		31810	224	24.1	54	2	2	0	679
Probability(%)									
Hybrid (H)		4.3	0.0	0.0	0.0	14.8	14.0	48.0	0.0
LSD(0.10)									
Hybrid (H)		1520	17	1.1	2	NS	NS	NS	54

FIELD EXPERIMENT HISTORY

Title: **Corn Hybrid Growth and Development**

Experiment: 01GD **Trial ID:** 6153 **Year:** 2016

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 /16 **pH:** 6.5 **OM (%)** 2.6 **P (ppm)** 29 **K (ppm)** 149

Plot Management

Tillage Operations: Chisel plow Field Cultivator

Fertilizer:

Preplant Analysis:	46-0-0	**Rate lbs/A:** 325 lbs/A	**Date:**	N/A
Starter Analysis:	9-23-30	**Rate lbs/A:** 200lbs/A	**Date:**	5 /2 /16
Post plant Analysis:	32-0-0	**Rate lbs/A:** 15 gal/A	**Date:**	N/A
Manure:	N/A			

Herbicide: Capreno 3.0 oz/A
Atrazine 0.75 lb/A
Roundup 32 oz/A

Insecticide: Force 3G 4.4 lbs/A

Hybrid: Factor

Irrigation: None

Planting Date: 5/2/16 **Planting Depth:** 1.5" **Row Width:** 30"

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

Harvest Date: 10/13/16 **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:** 32867 **plants per acre**

Factors/Treatments:

Hybrid (RM):

1). Dekalb DKC30-19RIB (80)
2). Jung 4D178RIB (82)
3). InVision FS36TV4RIB (86)
4). NK Brand N18Q-3011A (86)
5). Dahlman R44-26VT2PRIB (89)
6). Pioneer P9188AM (91)
7). Great Lakes 4548STXRIB (95)
8). Channel 195-58STXRIB (95)
9). LG Seeds LG5499STXRIB (100)
10). Pioneer P0157AMX (101)
11). Dekalb DKC54-38RIB (104)
12). NuTech/G2 5H-806 (106)
13). Tracy Seeds T108-26(Vip3110) (108)
14). AgriGold A6462STXRIB (110)
15). LG Seeds LG5618STXRIB (112)
16). Dekalb DKC65-71 (115)

Results: Table 1601-05.

Table: 1601-05. Determining Corn Hybrid Maturity - Comparison of Hybrids. Seymour, WI - 2016.

Hybrid	Relative maturity	Harvest density	Grain yield	Grain moisture	Test weight	Lodged			AGI
						Total	Stalk	Root	$3.44
		plants/A	bu/A	%	lb/bu	%	%	%	$/A
Dekalb DKC30-19RIB	80	32575	152	18.2	58	1	1	0	479
Jung 4D178RIB	82	33585	205	17.5	56	0	0	0	648
InVision FS36TV4RIB	86	33207	203	17.9	58	0	0	0	641
NK Brand N18Q-3011A	86	31944	189	18.2	57	0	0	0	595
Dahlman R44-26VT2PRIB	89	33964	204	17.3	55	0	0	0	647
Pioneer P9188AM	91	32828	215	18.8	57	0	0	0	675
Great Lakes 4548STXRIB	95	33080	232	21.2	55	0	0	0	717
Channel 195-58STXRIB	95	32575	224	20.6	55	0	0	0	695
LG Seeds LG5499STXRIB	100	34090	231	22.6	54	1	1	0	710
Pioneer P0157AMX	101	30555	233	23.4	55	0	0	0	710
Dekalb DKC54-38RIB	104	33333	247	22.4	55	0	0	0	757
NuTech/G2 5H-806	106	32575	244	23.0	54	1	1	0	746
Tracy Seeds T108-26(Vip3110)	108	32575	221	26.3	55	0	0	0	662
AgriGold A6462STXRIB	110	33964	258	27.0	56	2	2	0	768
LG Seeds LG5618STXRIB	112	32702	252	29.7	54	2	2	0	739
Dekalb DKC65-71	115	32323	236	30.3	54	1	1	0	689
Mean		32867	222	22.1	55	1	1	0	680
Probability(%)									
Hybrid (H)		44.9	0.0	0.0	0.6	9.5	6.4	48.0	0.0
LSD(0.10)									
Hybrid (H)		NS	19	1.6	2	1	1	NS	58

FIELD EXPERIMENT HISTORY

Title: **Corn Hybrid Growth and Development**

Experiment: 01GD **Trial ID:** 6154 **Year:** 2016

Personnel: Joe Lauer, Kent Kohn, Thierno Diallo

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

Supported By: HATCH

Site Information

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

Soil Test: **Date:** 10/1 /16 **pH:** 7.1 **OM (%)** 2.8 **P (ppm)** 206 **K (ppm)** 104

Plot Management

Tillage Operations: Chisel plow Turbo-Till

Fertilizer:

Preplant Analysis:	N/A	**Rate lbs/A:** N/A	**Date:**	N/A
Starter Analysis:	9-23-30	**Rate lbs/A:** 200 lbs/A	**Date:**	5 /9 /16
Post plant Analysis:	28-0-0	**Rate lbs/A:** 30 gal/A	**Date:**	N/A
Manure:	10000 gal/A			

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: 5/9/16 **Planting Depth:** 1.5" **Row Width:** 30"

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

Harvest Date: 10/19/16 **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:** 33499 **plants per acre**

Factors/Treatments:

Hybrid (RM):

1). Dekalb DKC30-19RIB (80)
2). Jung 4D178RIB (82)
3). InVision FS36TV4RIB (86)
4). NK Brand N18Q-3011A (86)
5). Dahlman R44-26VT2PRIB (89)
6). Pioneer P9188AM (91)
7). Great Lakes 4548STXRIB (95)
8). Channel 195-58STXRIB (95)
9). LG Seeds LG5499STXRIB (100)
10). Pioneer P0157AMX (101)
11). Dekalb DKC54-38RIB (104)
12). NuTech/G2 5H-806 (106)
13). Tracy Seeds T108-26(Vip3110) (108)
14). AgriGold A6462STXRIB (110)
15). LG Seeds LG5618STXRIB (112)
16). Dekalb DKC65-71 (115)

Results: Table 1601-06.

Table: 1601-06. Determining Corn Hybrid Maturity - Comparison of Hybrids. Valders, WI - 2016.

Hybrid	Relative maturity	Harvest density	Grain yield	Grain moisture	Test weight	Lodged			AGI
						Total	Stalk	Root	$3.44
		plants/A	bu/A	%	lb/bu	%	%	%	$/A
Dekalb DKC30-19RIB	80	32575	171	19.1	60	11	11	0	535
Jung 4D178RIB	82	33333	237	20.7	57	2	2	0	736
InVision FS36TV4RIB	86	33964	215	19.1	57	0	0	0	674
NK Brand N18Q-3011A	86	31944	218	20.6	57	5	5	0	678
Dahlman R44-26VT2PRIB	89	33712	238	20.0	56	0	0	0	743
Pioneer P9188AM	91	33838	243	22.1	56	1	1	0	747
Great Lakes 4548STXRIB	95	34343	244	22.5	57	0	0	0	751
Channel 195-58STXRIB	95	34595	242	21.5	55	0	0	0	747
LG Seeds LG5499STXRIB	100	33838	252	25.3	55	0	0	0	761
Pioneer P0157AMX	101	30934	251	23.4	56	0	0	0	765
Dekalb DKC54-38RIB	104	34217	266	22.8	54	0	0	0	817
NuTech/G2 5H-806	106	32449	288	23.8	56	2	1	1	876
Tracy Seeds T108-26(Vip3110)	108	33838	254	25.2	54	1	0	1	766
AgriGold A6462STXRIB	110	34469	274	26.6	55	2	1	0	818
LG Seeds LG5618STXRIB	112	34090	268	28.3	56	0	0	0	791
Dekalb DKC65-71	115	33838	262	29.0	54	0	0	0	771
Mean		33499	245	23.1	56	2	1	0	748
Probability(%)									
Hybrid (H)		0.1	0.0	0.0	0.1	19.9	21.0	5.0	0.0
LSD(0.10)									
Hybrid (H)		1246	22	1.5	2	NS	NS	1	70