

## FIELD EXPERIMENT HISTORY

**Title:** Determining Corn Hybrid Maturity  
**Experiment:** 01 Growth and Development **Trial ID:** 2233 **Year:** 2001  
**Personnel:** J.G. Lauer, P.J. Flannery, K.D. Kohn and J.Clark  
**Location:** Chippewa Falls, WI **County:** Chippewa  
**Supported By:** HATCH

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### Site Information

**Field:** **Previous Crop:** Corn **Soil Type:** Sattre Silt Loam  
**Soil Test:** **Date:** 11/1 /01 **pH** 5.8 **OM (%)** 2.9 **P (ppm)** 27 **K (ppm)** 115

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### Plot Management

**Tillage Operations:** Chisel Plow Field Cultivator Cultivated  
**Fertilizer:** **Preplant Analysis:** 28-0-0 **Rate lbs/A:** 150 actual **Date:** N/A  
**Starter Analysis:** 6-24-24 **Rate lbs/A:** 150 **Date:** 4 /26/01  
**Post plant Analysis:** N/A **Rate lbs/A:** N/A **Date:** N/A  
**Manure:**  
**Herbicide:** Harness 1.7 qt/A **Insecticide:** Lorsban @ 7 lbs/A  
Hornet 2.4 oz/A **Hybrid:** See Factors  
**Irrigation:** none  
**Planting Date:** 4/26/01 **Planting Depth:** 1.5" **Row Width:** 30"  
**Target Plant Density:** 30000 plants per acre **Planting Method:** Kinze Plot Planter  
**Harvest Date:** 10/17/01 **Harvest Method:** Kincaid Plot Combine

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### Experimental Design

**Design:** RCB **Replications:** 3  
**Plot Size Seeded:** 23.2' x 5' **Experiment Size:** 0.12 A  
**Harvest Plot Size:** 22 'x 5' **Harvest Plant Density:** 29000 plants per acre

### Factors/Treatments:

#### Hybrids:

Jung 2178	Dahlman 1488	Cargill 4521Bt
Kaltenberg K3303	Dekalb DK440	Pioneer 35R58
Renk RK232	Pioneer 38P05	Midwest 7711
Wensman W5088Bt	Pioneer 37R71	US Seeds USC1119RR
NK Brand N2555Bt	Cargill 4111	

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**Results: Table C-1.**

**Table C-1. Determining Corn Hybrid Maturity - Comparison of Hybrids  
Chippewa Falls, WI - 2001**

Hybrid	Relative maturity	Grain yield bu/A	Grain moisture %	Test weight lbs/bu	Lodging %	Grower return \$/A
Jung 2178	78	74	20.8	56	15	159
Kaltenberg K3303	82	132	20.1	57	1	283
Renk RK232	85	145	19.6	58	1	311
Wensman W5088Bt	85	152	21.9	57	1	326
NK Brand N2555Bt	88	142	21.6	57	0	303
Dahlman 1488	90	129	20.1	55	3	276
Dekalb DK440	90	163	20.3	54	2	350
Pioneer 38P05	95	161	21.3	58	2	345
Pioneer 37R71	97	169	21.5	53	1	362
Cargill 4111	102	183	21.7	55	1	391
Cargill 4521Bt	105	185	22.4	54	1	395
Pioneer 35R58	105	190	26.9	52	0	407
Midwest 7711	111	160	31.6	51	1	342
US Seeds USC1119RR	111	171	30.1	50	0	366
Mean		154	22.6	55	2	330
<b><u>Probability(%)</u></b>						
Hybrid (H)		0.0	0.0	0.0	0.0	0.0
<b><u>LSD(0.10)</u></b>						
Hybrid (H)		20.5	0.9	0.7	2.5	43.8
<b><u>CV(%)</u></b>						
		10	3	1	81	10

## FIELD EXPERIMENT HISTORY

**Title:** Determining Corn Hybrid Maturity  
**Experiment:** 01 Growth and Development **Trial ID:** 2235 **Year:** 2001  
**Personnel:** J.G. Lauer, P.J. Flannery, and K.D. Kohn  
**Location:** Marshfield, WI **County:** Wood  
**Supported By:** HATCH

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### Site Information

**Field:** **Previous Crop:** Soybean **Soil Type:** Loyal Silt Loam  
**Soil Test:** **Date:** 11/1 /01 **pH** 7.2 **OM (%)** 3 **P (ppm)** 48 **K (ppm)** 147

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### Plot Management

**Tillage Operations:** Field Cultivator Cultivated

**Fertilizer:** **Preplant Analysis:** **Rate lbs/A:** **Date:** N/A  
**Starter Analysis:** 6-24-24 **Rate lbs/A:** 150 **Date:** 5 /18/01  
**Post plant Analysis:** 34-0-0 **Rate lbs/A:** 350 **Date:** N/A  
**Manure:**

**Herbicide:** Harness 1.0 qt/A **Insecticide:** None  
Hornet 2.4 oz/A **Hybrid:** See Factors

**Irrigation:** None

**Planting Date:** 5/18/01 **Planting Depth:** 1.5" **Row Width:** 30"  
**Target Plant Density:** 30000 plants per acre **Planting Method:** Kinze Plot Planter  
**Harvest Date:** 11/5/01 **Harvest Method:** Kincaid Plot Combine

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### Experimental Design

**Design:** RCB **Replications:** 3  
**Plot Size Seeded:** 23.2' x 5' **Experiment Size:** 0.12 A  
**Harvest Plot Size:** 22 'x 5' **Harvest Plant Density:** 25500 plants per acre

### Factors/Treatments:

#### Hybrids:

Jung 2178	Dahlman 1488	Cargill 4521Bt
Kaltenberg K3303	Dekalb DK440	Pioneer 35R58
Renk RK232	Pioneer 38P05	Midwest 7711
Wensman W5088Bt	Pioneer 37R71	US Seeds USC1119RR
NK Brand N2555Bt	Cargill 4111	

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**Results: Table C-2.**

**Table C-2. Determining Corn Hybrid Maturity - Comparison of Hybrids  
Marshfield, WI - 2001**

Hybrid	Relative maturity	Grain yield bu/A	Grain moisture %	Test weight lbs/bu	Lodging %	Grower return \$/A
Jung 2178	78	112	21.2	54	5	240
Kaltenberg K3303	84	128	21.2	52	1	273
Wensman W5088Bt	84	134	20.5	52	2	287
Renk RK232	85	133	20.0	53	10	286
NK Brand N2555Bt	88	138	22.4	52	0	294
Dahlman 1488	90	131	23.7	48	4	280
Dekalb DK440	90	119	25.7	48	2	253
Pioneer 38P05	95	133	24.8	50	1	285
Pioneer 37R71	97	123	25.9	47	1	263
Cargill 4111	102	115	24.1	47	3	246
Cargill 4521Bt	105	94	24.6	50	1	202
Pioneer 35R58	105	102	37.8	44	2	219
Midwest 7711	111	105	35.5	45	1	225
US Seeds USC1119RR	111	120	41.2	45	2	258
Mean		121	26.6	49	2	258
<b><u>Probability(%)</u></b>						
Hybrid (H)		82.6	0.0	0.0	27.6	82.6
<b><u>LSD(0.10)</u></b>						
Hybrid (H)		NS	5.0	2.3	NS	NS
<b><u>CV(%)</u></b>						
		23	13	3	149	23

## FIELD EXPERIMENT HISTORY

**Title:** Determining Corn Hybrid Maturity  
**Experiment:** 01 Growth and Development **Trial ID:** 2236 **Year:** 2001  
**Personnel:** J.G. Lauer, P.J. Flannery, and K.D. Kohn  
**Location:** Seymour, WI **County:** Outagamie  
**Supported By:** HATCH

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### Site Information

**Field:** **Previous Crop:** Corn **Soil Type:** Clay Loam  
**Soil Test:** **Date:** N/A **pH** 7.1 **OM (%)** 3.7 **P (ppm)** 42 **K (ppm)** 210

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### Plot Management

**Tillage Operations:** Chisel Plow Soil Finisher Cultivated  
**Fertilizer:** **Preplant Analysis:** N/A **Rate lbs/A:** **Date:** N/A  
**Starter Analysis:** 6-24-24 **Rate lbs/A:** 150 **Date:** 5 /15/01  
**Post plant Analysis:** N/A **Rate lbs/A:** N/A **Date:** N/A  
**Manure:** 9000gal/A  
**Herbicide:** Accent 0.33 oz/A **Insecticide:** Lorsban @ 7 lbs/A  
Northstar 4.0 oz/A **Hybrid:** See Factors  
**Irrigation:** none  
**Planting Date:** 5/15/01 **Planting Depth:** 1.5" **Row Width:** 30"  
**Target Plant Density:** 30000 plants per acre **Planting Method:** Kinze Plot Planter  
**Harvest Date:** 10/29/01 **Harvest Method:** Kincaid Plot Combine

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### Experimental Design

**Design:** RCB **Replications:** 3  
**Plot Size Seeded:** 23.2' x 5' **Experiment Size:** 0.12 A  
**Harvest Plot Size:** 22 'x 5' **Harvest Plant Density:** 29000 plants per acre

### Factors/Treatments:

#### Hybrids:

Jung 2178	Dahlman 1488	Cargill 4521Bt
Kaltenberg K3303	Dekalb DK440	Pioneer 35R58
Renk RK232	Pioneer 38P05	Midwest 7711
Wensman W5088Bt	Pioneer 37R71	US Seeds USC1119RR
NK Brand N2555Bt	Cargill 4111	

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**Results: Table C-3.**

**Table C-3. Determining Corn Hybrid Maturity - Comparison of Hybrids  
Seymour, WI - 2001**

Hybrid	Relative maturity	Grain yield bu/A	Grain moisture %	Test weight lbs/bu	Lodging %	Grower return \$/A
Jung 2178	78	80	18.5	56	7	171
Kaltenberg K3303	82	150	18.2	55	4	322
Renk RK232	85	150	19.4	54	3	321
Wensman W5088Bt	85	138	20.1	56	1	295
NK Brand N2555Bt	88	143	20.6	55	1	306
Dahlman 1488	90	152	18.9	52	7	324
Dekalb DK440	90	167	21.2	50	4	357
Pioneer 38P05	95	165	20.8	54	4	354
Pioneer 37R71	97	190	22.6	50	3	407
Cargill 4111	102	160	22.5	51	5	342
Cargill 4521Bt	105	181	22.0	51	1	387
Pioneer 35R58	105	186	26.6	50	2	397
Midwest 7711	111	157	31.8	49	4	337
US Seeds USC1119RR	111	149	33.4	48	2	320
Mean		155	22.6	52	3	331
<b><u>Probability(%)</u></b>						
Hybrid (H)		0.0	0.0	0.0	32.6	0.0
<b><u>LSD(0.10)</u></b>						
Hybrid (H)		24.7	0.9	0.8	NS	53
<b><u>CV(%)</u></b>						
		11	3	1	93	11

## FIELD EXPERIMENT HISTORY

**Title:** Determining Corn Hybrid Maturity  
**Experiment:** 01 Growth and Development **Trial ID:** 2234 **Year:** 2001  
**Personnel:** J.G. Lauer, K.D. Kohn, P.J. Flannery, S. Hendrickson  
**Location:** Valders, WI **County:** Manitowoc  
**Supported By:** HATCH

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### Site Information

**Field:** **Previous Crop:** Corn **Soil Type:** Kewanee Clay Loam  
**Soil Test:** **Date:** 11/1 /01 **pH** 7.8 **OM (%)** 2.8 **P (ppm)** 40 **K (ppm)** 204

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### Plot Management

**Tillage Operations:** Moldboard Plow Field Cultivator Cultivated

**Fertilizer:** **Preplant Analysis:** **Rate lbs/A:** **Date:** N/A  
**Starter Analysis:** 6-24-24 **Rate lbs/A:** 150 **Date:** 5 /2 /01  
**Post plant Analysis:** N/A **Rate lbs/A:** N/A **Date:** N/A  
**Manure:** 9000 gal/A

**Herbicide:** Surpass 1.0 pt/A **Insecticide:** Lorsban @ 7 lbs/A  
Accent 0.33 oz/A **Hybrid:** See Factors  
Distinct 4.0 oz/A

**Irrigation:** None

**Planting Date:** 5/2/01 **Planting Depth:** 1.5" **Row Width:** 30"  
**Target Plant Density:** 30000 plants per acre **Planting Method:** Kinze Plot Planter  
**Harvest Date:** 11/1/01 **Harvest Method:** Kincaid Plot Combine

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### Experimental Design

**Design:** RCB **Replications:** 3  
**Plot Size Seeded:** 23.2' x 5' **Experiment Size:** 0.12 A  
**Harvest Plot Size:** 22 'x 5' **Harvest Plant Density:** 29000 plants per acre

### **Factors/Treatments:**

#### Hybrids:

Jung 2178	Dahlman 1488	Cargill 4521Bt
Kaltenberg K3303	Dekalb DK440	Pioneer 35R58
Renk RK232	Pioneer 38P05	Midwest 7711
Wensman W5088Bt	Pioneer 37R71	US Seeds USC1119RR
NK Brand N2555Bt	Cargill 4111	

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**Results: Table C-4.**

**Table C-4. Determining Corn Hybrid Maturity - Comparison of Hybrids  
Valders, WI -2001**

Hybrid	Relative maturity	Grain yield bu/A	Grain moisture %	Test weight lbs/bu	Lodging %	Grower return \$/A
Kaltenberg K3303	82	70	18.0	57	0	150
Renk RK232	85	73	19.1	56	1	156
Wensman W5088Bt	85	54	22.4	50	0	115
NK Brand N2555Bt	88	58	21.7	54	1	124
Dahlman 1488	90	44	24.0	44	3	94
Dekalb DK440	90	74	25.5	50	0	158
Pioneer 38P05	95	65	24.8	53	0	139
Pioneer 37R71	97	65	22.6	50	1	139
Cargill 4111	102	44	27.4	50	1	95
Cargill 4521Bt	105	55	25.6	50	0	117
Pioneer 35R58	105	114	29.1	51	0	243
Midwest 7711	111	61	32.2	49	0	130
US Seeds USC1119RR	111	50	28.1	50	0	107
Mean		63	24.4	51	1	135
<b><u>Probability(%)</u></b>						
Hybrid (H)		14.4	0.3	2.7	57.7	14.4
<b><u>LSD(0.10)</u></b>						
Hybrid (H)		NS	2.2	2.7	NS	NS
<b><u>CV(%)</u></b>						
		24	6	3	156	24



## FIELD EXPERIMENT HISTORY

**Title:** Determining Corn Hybrid Maturity  
**Experiment:** 01 Growth and Development **Trial ID:** 2232 **Year:** 2001  
**Personnel:** J.G. Lauer, P. J. Flannery, and K. D. Kohn  
**Location:** Arlington, WI **County:** Columbia  
**Supported By:** HATCH

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### Site Information

**Field:** ARS408 **Previous Crop:** Soybean **Soil Type:** Plano Silt Loam  
**Soil Test:** **Date:** 11/19/01 **pH** 6.7 **OM (%)** 3.1 **P (ppm)** 83 **K (ppm)** 182

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### Plot Management

**Tillage Operations:** Fall Chisel Plow Soil Finisher Cultivated on 6/14/01  
**Fertilizer:** **Preplant Analysis:** 46-0-0 **Rate lbs/A:** 325 **Date:** N/A  
**Starter Analysis:** 6-24-24 **Rate lbs/A:** 150 **Date:** 4 /25/01  
**Post plant Analysis:** N/A **Rate lbs/A:** N/A **Date:** N/A  
**Manure:** None  
**Herbicide:** Harness @ 1.5 pt/A **Insecticide:** None  
Permit @ 0.66 oz/A **Hybrid:** See Factors  
**Irrigation:** none  
**Planting Date:** 4/28/01 **Planting Depth:** 1.5" **Row Width:** 30"  
**Target Plant Density:** 30000 plants per acre **Planting Method:** Kinze Plot Planter  
**Harvest Date:** 10/16/01 **Harvest Method:** Kincaid Plot Combine

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### Experimental Design

**Design:** RCB **Replications:** 3  
**Plot Size Seeded:** 23.2' x 10' **Experiment Size:** 0.24 A  
**Harvest Plot Size:** 22 'x 5' **Harvest Plant Density:** 29000 plants per acre

### Factors/Treatments:

#### Hybrids:

Jung 2178	Dahlman 1488	Cargill 4521Bt
Kaltenberg K3303	Dekalb DK440	Pioneer 35R58
Renk RK232	Pioneer 38P05	Midwest 7711
Wensman W5088Bt	Pioneer 37R71	US Seeds USC1119RR
NK Brand N2555Bt	Cargill 4111	

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**Results:** Table C-5 and C-6.

**Table C-5. Determining Corn Hybrid Maturity - Comparison of Hybrids  
Arlington, WI - 2001**

Hybrid	Relative maturity	Grain yield bu/A	Grain moisture %	Test weight lb/bu	Lodging %	Grower return \$/A	50% Silk day of year	Plant height inches
Jung 2178	78	148	20.7	58	0	316	194	70
Kaltenberg K3303	82	168	20.2	59	0	358	199	91
Renk RK232	85	188	20.3	58	0	402	199	90
Wensman W5088Bt	85	181	21.8	58	0	388	197	91
NK Brand N2555Bt	88	188	21.8	58	0	402	197	94
Dahlman 1488	90	175	19.7	56	4	375	198	93
Dekalb DK440	90	214	21.0	56	0	457	199	96
Pioneer 38P05	95	195	21.8	58	0	418	198	89
Pioneer 37R71	97	203	21.5	53	0	434	197	96
Cargill 4111	102	219	22.4	56	0	468	202	99
Cargill 4521Bt	105	220	22.6	56	1	471	202	105
Pioneer 35R58	105	237	24.1	53	0	508	202	97
Midwest 7711	111	247	26.7	52	3	528	203	96
US Seeds USC1119RR	111	238	26.2	51	1	509	203	99
Mean		201	22.2	56	1	431	199	93
<b><u>Probability(%)</u></b>								
Hybrid (H)		0.0	0.0	0.0	0.3	0.0	0.0	0.0
<b><u>LSD(0.10)</u></b>								
Hybrid (H)		12	0.3	1	2	25	1	4
<b><u>CV(%)</u></b>								
		4	1	1	175	4	1	3

**Table C-5. Determining Corn Hybrid Maturity - Comparison of Hybrids  
Arlington, WI - 2001**

Hybrid	Relative maturity	Kernel Milk on Day of Year													
		229	233	236	240	242	247	250	253	257	261	264	268	271	275
		----- % -----													
Jung 2178	78	72	57	50	32	13	5	0	0	0	0	0	0	0	0
Kaltenberg K3303	82	97	82	85	60	45	37	28	12	0	0	0	0	0	0
Renk RK232	85	100	100	100	70	52	48	38	28	12	0	0	0	0	0
Wensman W5088Bt	85	97	88	77	50	42	23	15	5	0	0	0	0	0	0
NK Brand N2555Bt	88	92	87	82	53	37	33	22	10	0	0	0	0	0	0
Dahlman 1488	90	98	97	93	60	48	45	40	23	0	0	0	0	0	0
Dekalb DK440	90	100	95	85	70	57	48	37	25	23	12	0	0	0	0
Pioneer 38P05	95	97	82	87	57	47	38	28	13	5	3	0	0	0	0
Pioneer 37R71	97	100	100	93	72	57	47	38	28	15	8	0	0	0	0
Cargill 4111	102	100	100	100	98	78	57	50	42	28	23	13	2	0	0
Cargill 4521Bt	105	100	100	100	97	85	68	57	43	27	27	17	10	2	0
Pioneer 35R58	105	100	98	95	80	75	67	62	53	40	32	20	7	2	0
Midwest 7711	111	100	100	100	98	98	77	67	58	50	43	28	15	8	3
US Seeds USC1119RR	111	100	100	100	100	100	78	70	53	40	42	25	17	10	2
Mean		97	92	89	71	60	48	39	28	17	14	7	4	2	0
<b><u>Probability(%)</u></b>															
Hybrid (H)		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6
<b><u>LSD(0.10)</u></b>															
Hybrid (H)		3	5	8	9	9	8	7	7	6	5	5	3	4	2
<b><u>CV(%)</u></b>															
		2	4	7	9	11	13	13	22	25	27	45	61	164	300

**Table C-6. Determining Corn Hybrid Maturity - Comparison of Hybrids  
Arlington, WI - 2001**

Hybrid	Relative maturity	Day of year	Leaf Development			Plant height inches
			Leaf collars no./plant	Hail adjusters method no./plant	Total leaves no./plant	
		136	1.9	1.9	3.2	3.3
		151	3.5	4.5	6.8	7.5
		159	4.1	5.7	7.4	9.3
		169	6.7	9.8	11.3	23.1
		184	10.7	13.4	14.9	55.6
		196	15.8	16.1	17.1	78.5
Jung 2178	78		6.6	7.7	9.1	28.6
Kaltenberg K3303	82		7.0	8.7	10.1	28.5
Renk RK232	85		7.3	8.6	10.1	31.1
Wensman W5088Bt	85		7.3	8.5	10.1	29.5
NK Brand N2555Bt	88		7.6	8.7	10.6	29.9
Dahlman 1488	90		7.2	9.0	10.5	29.6
Dekalb DK440	90		7.0	8.5	9.9	28.6
Pioneer 38P05	95		7.8	9.3	10.8	30.4
Pioneer 37R71	97		7.2	8.8	10.2	29.4
Cargill 4111	102		7.0	8.6	10.1	30.5
Cargill 4521Bt	105		7.1	9.0	10.4	30.4
Pioneer 35R58	105		6.9	8.2	9.9	31.3
Midwest 7711	111		6.8	8.2	9.9	28.0
US Seeds USC1119RR	111		6.9	8.2	9.6	28.0
Jung 2178	78	136	2.0	1.8	3.0	3.6
Kaltenberg K3303	82	136	1.8	1.8	3.2	3.0
Renk RK232	85	136	2.0	2.0	3.0	3.1
Wensman W5088Bt	85	136	2.0	2.0	3.7	3.6
NK Brand N2555Bt	88	136	2.0	2.0	3.7	3.4
Dahlman 1488	90	136	2.0	1.8	3.0	3.2
Dekalb DK440	90	136	1.7	1.7	3.0	2.8
Pioneer 38P05	95	136	2.0	2.0	3.5	3.2
Pioneer 37R71	97	136	2.0	1.8	3.2	3.5
Cargill 4111	102	136	2.0	2.0	3.0	3.5
Cargill 4521Bt	105	136	2.0	2.0	3.2	3.1
Pioneer 35R58	105	136	1.8	1.8	3.2	3.3
Midwest 7711	111	136	1.8	1.7	3.0	3.1
US Seeds USC1119RR	111	136	1.7	1.7	3.0	3.1

continued

**Table C-6. Determining Corn Hybrid Maturity - Comparison of Hybrids**  
(continued) **Arlington, WI - 2001**

Hybrid	Relative maturity	Day of year	Leaf Development			Plant height
			Leaf collars no./plant	Hail adjusters method no./plant	Total leaves no./plant	
Jung 2178	78	151	3.0	3.8	6.3	8.7
Kaltenberg K3303	82	151	3.7	4.8	7.0	7.7
Renk RK232	85	151	4.0	4.5	7.0	7.3
Wensman W5088Bt	85	151	3.8	4.0	7.0	7.6
NK Brand N2555Bt	88	151	3.8	4.2	6.8	9.8
Dahlman 1488	90	151	3.5	4.7	7.0	7.0
Dekalb DK440	90	151	3.3	4.5	6.5	6.5
Pioneer 38P05	95	151	3.7	5.0	6.7	7.8
Pioneer 37R71	97	151	3.0	5.0	7.0	6.8
Cargill 4111	102	151	3.5	4.8	6.7	7.8
Cargill 4521Bt	105	151	3.3	4.8	6.8	7.3
Pioneer 35R58	105	151	3.7	4.2	6.8	8.0
Midwest 7711	111	151	3.0	4.0	6.7	7.0
US Seeds USC1119RR	111	151	3.2	4.2	6.3	6.3
Jung 2178	78	159	4.0	4.5	7.0	11.6
Kaltenberg K3303	82	159	4.0	6.0	7.7	8.5
Renk RK232	85	159	4.2	5.7	7.5	9.5
Wensman W5088Bt	85	159	4.0	5.7	7.5	10.3
NK Brand N2555Bt	88	159	4.3	5.7	7.7	10.2
Dahlman 1488	90	159	4.0	6.0	7.7	8.9
Dekalb DK440	90	159	4.0	6.0	7.3	8.7
Pioneer 38P05	95	159	4.7	5.8	7.8	9.3
Pioneer 37R71	97	159	4.0	6.0	7.5	7.6
Cargill 4111	102	159	4.0	5.8	7.5	10.1
Cargill 4521Bt	105	159	4.0	5.8	7.3	9.3
Pioneer 35R58	105	159	4.0	5.5	7.5	9.5
Midwest 7711	111	159	4.0	5.3	7.0	9.0
US Seeds USC1119RR	111	159	4.0	5.5	7.0	7.8
Jung 2178	78	169	6.2	9.5	10.8	23.6
Kaltenberg K3303	82	169	6.3	9.8	10.8	22.2
Renk RK232	85	169	6.7	10.0	11.5	23.8
Wensman W5088Bt	85	169	6.7	9.8	11.5	22.7
NK Brand N2555Bt	88	169	6.8	9.8	11.7	23.7
Dahlman 1488	90	169	6.7	10.5	11.8	23.0
Dekalb DK440	90	169	6.5	9.7	11.0	21.9
Pioneer 38P05	95	169	7.3	10.7	11.8	22.6
Pioneer 37R71	97	169	6.7	9.7	11.3	24.0
Cargill 4111	102	169	6.7	9.7	11.5	25.3
Cargill 4521Bt	105	169	7.0	10.5	11.7	23.9
Pioneer 35R58	105	169	6.3	9.2	11.0	25.3
Midwest 7711	111	169	6.7	9.3	10.7	21.0
US Seeds USC1119RR	111	169	6.8	9.5	10.8	20.6

continued

**Table C-6. Determining Corn Hybrid Maturity - Comparison of Hybrids**  
(continued) **Arlington, WI - 2001**

Hybrid	Relative maturity	Day of year	Leaf Development			Plant height
			Leaf collars no./plant	Hail adjusters method no./plant	Total leaves no./plant	
Jung 2178	78	184	10.2	12.0	13.3	55.5
Kaltenberg K3303	82	184	10.3	13.5	14.7	50.7
Renk RK232	85	184	11.0	13.5	14.7	58.0
Wensman W5088Bt	85	184	10.5	12.7	14.3	55.8
NK Brand N2555Bt	88	184	11.0	13.0	15.3	55.3
Dahlman 1488	90	184	10.5	14.0	15.3	56.8
Dekalb DK440	90	184	10.7	13.3	14.8	52.5
Pioneer 38P05	95	184	11.7	14.8	16.3	57.0
Pioneer 37R71	97	184	11.2	14.0	15.2	57.0
Cargill 4111	102	184	10.7	13.7	15.3	57.2
Cargill 4521Bt	105	184	11.0	14.0	15.7	57.7
Pioneer 35R58	105	184	10.3	13.2	14.5	59.3
Midwest 7711	111	184	10.2	13.7	15.2	51.8
US Seeds USC1119RR	111	184	10.3	12.7	14.0	53.7
Jung 2178	78	196	14.3	14.3	14.3	68.5
Kaltenberg K3303	82	196	15.8	16.2	17.3	79.0
Renk RK232	85	196	15.7	15.8	16.8	85.2
Wensman W5088Bt	85	196	16.7	16.7	16.7	76.7
NK Brand N2555Bt	88	196	17.3	17.3	18.3	76.8
Dahlman 1488	90	196	16.5	17.2	18.0	78.8
Dekalb DK440	90	196	15.7	15.8	17.0	79.2
Pioneer 38P05	95	196	17.3	17.3	18.3	82.3
Pioneer 37R71	97	196	16.3	16.3	17.2	77.8
Cargill 4111	102	196	15.2	15.8	16.8	79.0
Cargill 4521Bt	105	196	15.5	16.8	17.7	80.8
Pioneer 35R58	105	196	15.2	15.2	16.7	82.5
Midwest 7711	111	196	15.0	15.2	17.2	76.2
US Seeds USC1119RR	111	196	15.3	15.7	16.7	76.5
Mean			7.1	8.6	10.1	29.6
<b>Probability(%)</b>						
Hybrid (H)			0.0	0.0	0.0	0.6
Day Of Year (D)			0.0	0.0	0.0	0.0
H x D			0.0	0.3	0.0	0.0
<b>LSD(0.10)</b>						
Hybrid (H)			0.3	0.4	0.4	1.4
Day Of Year (D)			0.2	0.2	0.2	0.7
H x D			0.6	0.7	0.6	2.6
<b>CV(%)</b>			6	6	5	7