



**Table E-1.**

**Determining Corn Hybrid Maturity - Comparison of Hybrids.  
Growth and Development  
Arlington, WI - 1996.**

Hybrid	Relative Maturity	Day of Year	Leaf Development			Plant Height cm
			Leaf Collars	Hail Adjuster's Method	Total Leaves	
Carhart's CX92A	90	.	8.3	10.0	11.4	101.4
Dairyland ST-1180	80	.	7.7	9.2	10.7	95.3
Dairyland ST-1289	90	.	8.5	10.3	11.6	102.4
Dairyland ST-1400	100	.	8.0	9.7	11.1	104.2
Dairyland ST-1412	110	.	7.9	9.5	10.8	96.7
Dekalb DK 580	108	.	8.5	10.4	11.7	103.3
Dekalb DK306	80	.	7.9	9.4	10.8	98.6
Dekalb DK385	88	.	7.8	9.3	10.7	98.9
Dekalb DK493	99	.	8.2	9.8	11.3	97.6
Golden H2387	100	.	8.4	10.3	11.6	108.3
Golden H2441	105	.	8.5	10.1	11.7	102.6
NK PX9060	80	.	7.9	9.6	10.9	96.1
Pioneer 3394	110	.	8.4	10.0	11.3	108.4
Pioneer 3730	100	.	8.0	9.9	11.2	106.5
Pioneer 3845	90	.	8.6	10.5	11.8	115.0
Pioneer 3947	80	.	8.2	9.9	11.4	111.7
		151	0.8	1.1	3.0	4.1
		161	2.3	3.7	4.7	7.8
		170	4.5	6.4	7.6	26.8
		182	7.4	10.2	12.2	66.5
		193	10.5	14.0	15.9	137.9
		200	13.1	15.2	17.0	180.9
		225	18.5	18.5	18.5	296.6
Carhart's CX92A	90	151	1.0	1.2	3.2	4.2
Carhart's CX92A	90	161	2.8	4.0	5.0	7.2
Carhart's CX92A	90	170	4.7	6.1	7.9	26.7
Carhart's CX92A	90	182	7.4	10.7	12.4	65.6
Carhart's CX92A	90	193	11.0	14.6	16.0	132.1
Carhart's CX92A	90	200	13.2	15.1	16.8	176.1
Carhart's CX92A	90	225	18.1	18.1	18.1	298.0
Dairyland ST-1180	80	151	0.9	0.8	2.7	3.0
Dairyland ST-1180	80	161	2.1	3.0	4.4	5.9
Dairyland ST-1180	80	170	4.3	6.3	7.3	23.3
Dairyland ST-1180	80	182	7.0	10.0	12.1	64.4
Dairyland ST-1180	80	193	10.4	13.6	15.9	126.0
Dairyland ST-1180	80	200	12.7	14.2	15.9	173.6
Dairyland ST-1180	80	225	16.3	16.3	16.3	270.9
Dairyland ST-1289	90	151	0.8	1.0	2.9	3.8
Dairyland ST-1289	90	161	1.9	3.7	4.3	6.4

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Hybrid	Relative Maturity	Day of Year	Leaf Development			Plant Height cm
			Leaf Collars	Hail Adjuster's Method	Total Leaves	
Dairyland ST-1289	90	170	4.9	6.4	7.8	25.0
Dairyland ST-1289	90	182	7.6	10.3	12.4	60.5
Dairyland ST-1289	90	193	10.7	14.8	16.6	125.0
Dairyland ST-1289	90	200	14.2	16.3	17.9	184.6
Dairyland ST-1289	90	225	19.2	19.2	19.2	311.6
Dairyland ST-1400	100	151	0.8	0.9	3.0	3.8
Dairyland ST-1400	100	161	2.1	3.7	4.7	8.5
Dairyland ST-1400	100	170	4.3	6.0	7.2	25.8
Dairyland ST-1400	100	182	7.1	9.4	11.6	61.0
Dairyland ST-1400	100	193	10.2	13.4	15.4	129.0
Dairyland ST-1400	100	200	12.2	15.1	16.8	178.7
Dairyland ST-1400	100	225	19.0	19.0	19.0	322.6
Dairyland ST-1412	110	151	0.8	0.8	2.8	3.6
Dairyland ST-1412	110	161	2.0	2.8	3.8	6.8
Dairyland ST-1412	110	170	3.8	5.3	6.8	22.9
Dairyland ST-1412	110	182	6.8	9.2	11.1	58.0
Dairyland ST-1412	110	193	10.2	13.9	15.2	121.9
Dairyland ST-1412	110	200	12.1	15.1	16.3	164.3
Dairyland ST-1412	110	225	19.4	19.4	19.4	299.7
Dekalb DK 580	108	151	1.0	1.4	3.0	4.2
Dekalb DK 580	108	161	2.3	4.1	5.0	7.6
Dekalb DK 580	108	170	5.0	6.9	7.9	27.5
Dekalb DK 580	108	182	7.4	10.0	12.0	66.9
Dekalb DK 580	108	193	10.2	14.1	15.9	133.1
Dekalb DK 580	108	200	13.1	15.4	17.7	178.7
Dekalb DK 580	108	225	20.4	20.4	20.4	304.8
Dekalb DK306	80	151	0.8	0.8	2.9	3.4
Dekalb DK306	80	161	2.0	3.7	4.6	6.8
Dekalb DK306	80	170	4.6	6.3	7.6	25.8
Dekalb DK306	80	182	7.1	9.9	12.0	68.2
Dekalb DK306	80	193	11.0	13.9	15.8	141.2
Dekalb DK306	80	200	13.6	15.0	16.4	181.2
Dekalb DK306	80	225	16.4	16.4	16.4	263.3
Dekalb DK385	88	151	0.2	0.1	2.2	3.1
Dekalb DK385	88	161	2.1	3.0	4.0	7.2
Dekalb DK385	88	170	4.1	5.8	6.9	19.9
Dekalb DK385	88	182	7.2	9.8	11.6	62.2
Dekalb DK385	88	193	10.1	13.6	15.8	146.3
Dekalb DK385	88	200	13.0	14.9	16.7	171.0
Dekalb DK385	88	225	17.7	17.7	17.7	282.8
Dekalb DK493	99	151	0.7	0.7	2.7	3.8

**Table E-1. Determining Corn Hybrid Maturity - Comparison of Hybrids.  
Growth and Development  
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Hybrid	Relative Maturity	Day of Year	Leaf Development			Plant Height cm
			Leaf Collars	Hail Adjuster's Method	Total Leaves	
Dekalb DK493	99	161	2.1	3.7	4.2	7.2
Dekalb DK493	99	170	4.2	6.0	7.2	24.6
Dekalb DK493	99	182	7.2	9.6	12.2	65.2
Dekalb DK493	99	193	10.7	14.2	16.2	122.9
Dekalb DK493	99	200	13.0	15.3	17.3	165.1
Dekalb DK493	99	225	19.4	19.4	19.4	294.6
Golden H2387	100	151	1.1	1.9	3.3	4.7
Golden H2387	100	161	2.7	3.8	4.9	8.5
Golden H2387	100	170	4.8	6.8	8.0	28.8
Golden H2387	100	182	7.9	10.8	12.8	69.4
Golden H2387	100	193	10.4	14.2	15.8	146.3
Golden H2387	100	200	13.1	15.3	17.4	193.0
Golden H2387	100	225	19.1	19.1	19.1	307.3
Golden H2441	105	151	1.0	1.4	3.3	3.8
Golden H2441	105	161	2.7	4.0	5.2	8.5
Golden H2441	105	170	5.0	6.7	8.0	24.1
Golden H2441	105	182	7.9	10.4	12.8	63.1
Golden H2441	105	193	10.8	13.9	16.4	136.1
Golden H2441	105	200	12.6	14.7	16.9	184.6
Golden H2441	105	225	19.4	19.4	19.4	298.0
NK PX9060	80	151	0.7	0.9	3.1	3.8
NK PX9060	80	161	2.6	3.6	4.4	5.9
NK PX9060	80	170	4.2	6.6	7.6	22.4
NK PX9060	80	182	7.3	10.2	12.3	61.4
NK PX9060	80	193	10.4	14.0	15.4	130.1
NK PX9060	80	200	13.2	15.0	16.3	179.5
NK PX9060	80	225	16.9	16.9	16.9	269.2
Pioneer 3394	110	151	0.7	1.0	3.1	5.1
Pioneer 3394	110	161	2.4	3.8	4.9	8.9
Pioneer 3394	110	170	4.9	6.6	7.9	34.3
Pioneer 3394	110	182	7.6	9.8	11.4	69.9
Pioneer 3394	110	193	10.7	14.2	15.6	147.3
Pioneer 3394	110	200	12.7	14.8	16.7	185.4
Pioneer 3394	110	225	19.7	19.7	19.7	308.2
Pioneer 3730	100	151	1.0	1.2	3.1	4.7
Pioneer 3730	100	161	2.0	4.0	4.7	9.3
Pioneer 3730	100	170	4.2	6.1	7.3	29.2
Pioneer 3730	100	182	7.3	10.1	11.9	71.1
Pioneer 3730	100	193	10.2	14.0	16.0	140.2
Pioneer 3730	100	200	13.0	15.2	17.2	170.2

**Table E-1. Determining Corn Hybrid Maturity - Comparison of Hybrids.  
Growth and Development  
Arlington, WI - 1996.**

Hybrid	Relative Maturity	Day of Year	Leaf Development			Plant Height cm
			Leaf Collars	Hail Adjuster's Method	Total Leaves	
Pioneer 3730	100	225	18.3	18.3	18.3	320.9
Pioneer 3845	90	151	1.1	1.9	3.7	6.4
Pioneer 3845	90	161	2.7	4.4	5.2	11.9
Pioneer 3845	90	170	4.9	7.1	8.1	35.6
Pioneer 3845	90	182	7.8	11.3	13.2	83.4
Pioneer 3845	90	193	10.4	13.7	15.4	159.5
Pioneer 3845	90	200	14.3	15.7	17.4	194.7
Pioneer 3845	90	225	19.2	19.2	19.2	313.3
Pioneer 3947	80	151	0.9	1.0	3.0	3.4
Pioneer 3947	80	161	2.0	3.7	5.0	8.5
Pioneer 3947	80	170	4.6	6.6	7.9	32.2
Pioneer 3947	80	182	7.8	10.9	13.1	74.5
Pioneer 3947	80	193	10.9	14.2	16.1	169.7
Pioneer 3947	80	200	14.1	15.8	17.4	214.2
Pioneer 3947	80	225	17.4	17.4	17.4	279.4
Mean		.	8.2	9.9	11.3	102.9
<b><u>Probability %</u></b>						
Hybrid (H)			0.5	< 0.1	< 0.1	< 0.1
Days (D)			< 0.1	< 0.1	< 0.1	< 0.1
H x D			< 0.1	< 0.1	< 0.1	< 0.1
<b><u>LSD (0.10)</u></b>						
Hybrid (H)			0.4	0.5	0.4	4.3
Day of Year (D)			0.1	0.2	0.1	2.1
<b><u>CV %</u></b>						
			8.5	7.7	6.9	6.1

**Table E-2. Determining Corn Hybrid Maturity.  
Comparison of Hybrids - Harvest Data.  
Arlington, WI - 1996.**

Hybrid	Relative Maturity	Broken Stalks %	Moisture %	Yield bu/a
Carhart's CX92A	90	0.5	24.2	184.3
Dairyland ST-1180	80	3.3	22.6	143.3
Dairyland ST-1289	90	1.4	23.9	171.7
Dairyland ST-1400	100	0.5	24.5	185.2
Dairyland ST-1412	110	0.5	34.2	191.0
Dekalb DK 580	108	1.4	32.8	223.3
Dekalb DK306	80	10.5	20.6	128.1
Dekalb DK385	88	1.9	22.1	150.5
Dekalb DK493	99	1.4	25.2	204.1
Golden H2387	100	3.8	27.3	236.2
Golden H2441	105	3.3	26.6	229.3
NK PX9060	80	5.2	21.6	124.5
Pioneer 3394	110	4.8	29.9	186.1
Pioneer 3730	100	2.9	27.4	187.5
Pioneer 3845	90	1.4	24.0	185.3
Pioneer 3947	80	4.3	22.5	162.8
Mean		3.0	25.6	180.8
<b><u>Probability %</u></b>				
Hybrid (H)		0.5	< 0.1	< 0.1
<b><u>LSD (0.10)</u></b>				
Hybrid (H)		3.5	1.7	26.1
<b><u>CV %</u></b>				
		86.4	4.7	10.4

**Table E-3.**

**Determining Corn Hybrid Maturity - Comparison of Hybrids.  
Growth and Development  
Fond du Lac, WI - 1996.**

Hybrid	Relative Maturity	Day of Year	Leaf Development			Plant Height cm
			Leaf Collars	Hail Adjuster's Method	Total Leaves	
Carhart's CX92A	90	.	9.3	11.6	13.1	97.9
Dairyland ST-1180	80	.	8.1	9.9	11.3	89.6
Dairyland ST-1289	90	.	9.2	11.1	12.4	94.7
Dairyland ST-1400	100	.	9.4	11.5	12.9	99.6
Dairyland ST-1412	110	.	9.0	10.9	12.2	99.6
Dekalb DK 580	108	.	9.5	11.6	13.0	96.7
Dekalb DK306	80	.	9.3	10.9	12.2	95.3
Dekalb DK385	88	.	9.3	11.2	12.6	96.0
Dekalb DK493	99	.	9.1	10.8	12.4	90.8
Golden H2387	100	.	8.9	10.8	12.3	95.8
Golden H2441	105	.	9.4	11.2	12.8	95.7
NK PX9060	80	.	8.7	10.7	12.0	92.6
Pioneer 3394	110	.	9.4	11.3	12.9	113.0
Pioneer 3730	100	.	8.9	10.9	12.3	102.5
Pioneer 3845	90	.	9.1	10.8	12.5	100.5
Pioneer 3947	80	.	9.3	11.1	12.6	107.9
		163	1.0	1.8	3.0	6.9
		180	5.0	6.9	8.4	30.4
		189	7.5	10.7	12.6	61.8
		199	10.3	13.5	15.5	103.9
		206	12.5	14.7	16.8	148.7
		241	18.8	18.8	18.8	236.3
Carhart's CX92A	90	163	1.0	1.9	3.1	7.2
Carhart's CX92A	90	180	5.1	7.1	8.9	27.9
Carhart's CX92A	90	189	7.8	11.2	13.3	62.7
Carhart's CX92A	90	199	10.3	14.8	16.3	106.7
Carhart's CX92A	90	206	12.6	15.8	17.7	149.0
Carhart's CX92A	90	241	19.9	19.9	19.9	233.7
Dairyland ST-1180	80	163	1.0	1.7	2.9	6.4
Dairyland ST-1180	80	180	4.7	6.4	7.9	27.1
Dairyland ST-1180	80	189	7.0	10.0	11.8	51.2
Dairyland ST-1180	80	199	9.6	12.6	14.7	97.4
Dairyland ST-1180	80	206	11.5	13.4	15.4	143.9
Dairyland ST-1180	80	241	16.3	16.3	16.3	211.7
Dairyland ST-1289	90	163	0.8	1.3	2.8	6.4
Dairyland ST-1289	90	180	5.1	6.7	8.1	26.3
Dairyland ST-1289	90	189	7.6	11.0	12.3	52.9
Dairyland ST-1289	90	199	10.2	13.9	15.7	102.5
Dairyland ST-1289	90	206	12.4	14.9	17.0	138.9
Dairyland ST-1289	90	241	18.8	18.8	18.8	241.3
Dairyland ST-1400	100	163	1.0	2.0	3.0	6.8
Dairyland ST-1400	100	180	5.0	7.0	8.7	32.2
Dairyland ST-1400	100	189	7.7	10.8	12.4	59.3

**Table E-3. Determining Corn Hybrid Maturity - Comparison of Hybrids.  
Growth and Development  
Fond du Lac, WI - 1996.**

Hybrid	Relative Maturity	Day of Year	Leaf Development			Plant Height cm
			Leaf Collars	Hail Adjuster's Method	Total Leaves	
Dairyland ST-1400	100	199	10.0	14.0	15.7	104.1
Dairyland ST-1400	100	206	12.2	14.8	17.6	143.9
Dairyland ST-1400	100	241	20.3	20.3	20.3	251.5
Dairyland ST-1412	110	163	1.0	1.8	2.9	6.8
Dairyland ST-1412	110	180	4.8	6.8	7.8	27.9
Dairyland ST-1412	110	189	7.0	9.8	11.6	63.9
Dairyland ST-1412	110	199	9.8	12.7	14.6	96.5
Dairyland ST-1412	110	206	11.8	14.2	16.4	147.3
Dairyland ST-1412	110	241	19.9	19.9	19.9	254.9
Dekalb DK 580	108	163	1.0	2.0	3.0	5.9
Dekalb DK 580	108	180	5.0	7.1	8.3	31.3
Dekalb DK 580	108	189	7.8	11.2	12.7	59.3
Dekalb DK 580	108	199	10.4	13.9	16.0	103.3
Dekalb DK 580	108	206	12.2	14.8	17.3	142.2
Dekalb DK 580	108	241	20.7	20.7	20.7	237.9
Dekalb DK306	80	163	1.0	1.7	3.0	7.6
Dekalb DK306	80	180	5.0	6.9	8.6	28.8
Dekalb DK306	80	189	8.0	11.0	13.1	65.2
Dekalb DK306	80	199	11.2	14.0	15.9	103.3
Dekalb DK306	80	206	14.0	15.0	16.3	165.1
Dekalb DK306	80	241	16.6	16.6	16.6	201.5
Dekalb DK385	88	163	1.0	2.0	3.0	6.4
Dekalb DK385	88	180	5.1	7.1	8.4	28.8
Dekalb DK385	88	189	7.6	11.1	13.4	58.4
Dekalb DK385	88	199	11.0	13.9	15.8	108.4
Dekalb DK385	88	206	13.4	15.2	17.0	152.4
Dekalb DK385	88	241	17.9	17.9	17.9	221.8
Dekalb DK493	99	163	0.9	1.3	2.8	6.8
Dekalb DK493	99	180	4.8	6.6	8.1	27.1
Dekalb DK493	99	189	7.3	10.1	12.0	50.4
Dekalb DK493	99	199	10.1	13.2	15.2	97.4
Dekalb DK493	99	206	12.0	14.2	16.7	122.8
Dekalb DK493	99	241	19.4	19.4	19.4	240.5
Golden H2387	100	163	0.9	1.6	3.0	6.8
Golden H2387	100	180	4.9	6.7	8.3	27.1
Golden H2387	100	189	7.6	10.6	12.1	59.3
Golden H2387	100	199	9.9	12.9	14.9	106.7
Golden H2387	100	206	12.0	14.5	17.0	141.4
Golden H2387	100	241	19.9	19.9	19.9	233.7
Golden H2441	105	163	0.9	1.7	2.9	6.8
Golden H2441	105	180	5.0	7.0	8.2	28.8
Golden H2441	105	189	7.9	10.9	12.7	55.9
Golden H2441	105	199	10.4	13.6	15.9	97.4
Golden H2441	105	206	12.3	14.3	17.1	148.2
Golden H2441	105	241	19.9	19.9	19.9	237.1



**Table E-3. Determining Corn Hybrid Maturity - Comparison of Hybrids.  
Growth and Development  
Fond du Lac, WI - 1996.**

Hybrid	Relative Maturity	Day of Year	Leaf Development			Plant Height cm
			Leaf Collars	Hail Adjuster's Method	Total Leaves	
NK PX9060	80	163	1.0	2.1	3.4	6.8
NK PX9060	80	180	5.1	7.0	8.7	32.2
NK PX9060	80	189	7.4	11.0	13.2	54.2
NK PX9060	80	199	10.2	13.8	15.0	99.1
NK PX9060	80	206	12.7	14.4	15.8	148.2
NK PX9060	80	241	16.0	16.0	16.0	215.1
Pioneer 3394	110	163	1.0	1.9	3.0	8.0
Pioneer 3394	110	180	5.1	6.9	8.2	36.4
Pioneer 3394	110	189	7.6	10.7	12.7	100.8
Pioneer 3394	110	199	10.1	13.2	15.6	118.5
Pioneer 3394	110	206	12.1	14.2	17.0	156.6
Pioneer 3394	110	241	20.8	20.8	20.8	257.4
Pioneer 3730	100	163	1.0	2.0	3.0	7.6
Pioneer 3730	100	180	4.9	7.0	8.3	35.6
Pioneer 3730	100	189	7.3	10.3	12.4	64.4
Pioneer 3730	100	199	10.0	13.3	15.2	106.7
Pioneer 3730	100	206	12.0	14.7	16.9	149.0
Pioneer 3730	100	241	17.9	17.9	17.9	251.5
Pioneer 3845	90	163	1.0	1.8	3.4	7.2
Pioneer 3845	90	180	5.0	7.1	8.4	33.9
Pioneer 3845	90	189	7.4	10.3	12.4	61.8
Pioneer 3845	90	199	10.1	12.9	15.3	98.2
Pioneer 3845	90	206	13.0	14.6	16.9	153.3
Pioneer 3845	90	241	18.2	18.2	18.2	248.9
Pioneer 3947	80	163	1.0	2.0	3.2	6.4
Pioneer 3947	80	180	5.0	7.0	8.6	35.6
Pioneer 3947	80	189	7.3	10.9	13.0	69.4
Pioneer 3947	80	199	10.9	13.9	16.2	116.8
Pioneer 3947	80	206	13.7	15.2	17.1	177.0
Pioneer 3947	80	241	17.7	17.7	17.7	242.2
Mean		.	9.1	11.0	12.5	98.0
<b>Probability %</b>						
Hybrid (H)			< 0.1	< 0.1	< 0.1	< 0.1
Days (D)			< 0.1	< 0.1	< 0.1	< 0.1
H x D			< 0.1	< 0.1	< 0.1	< 0.1
<b>LSD (0.10)</b>						
Hybrid (H)			0.3	0.4	0.5	7.4
Day of Year (D)			0.1	0.1	0.1	2.9
<b>CV %</b>			5.8	5.9	5.5	8.8

**Table E-4. Determining Corn Hybrid Maturity.  
Comparison of Hybrids - Harvest Data.  
Fond du Lac, WI - 1996.**

Hybrid	Relative Maturity	Broken Stalks %	Moisture %	Yield bu/a
Carhart's CX92A	90	8.2	23.3	141.0
Dairyland ST-1180	80	12.1	22.2	119.3
Dairyland ST-1289	90	7.3	22.3	136.4
Dairyland ST-1400	100	7.3	25.0	134.7
Dairyland ST-1412	110	10.6	33.8	145.5
Dekalb DK 580	108	8.0	34.6	138.8
Dekalb DK306	80	7.7	21.1	109.0
Dekalb DK385	88	8.7	23.0	124.2
Dekalb DK493	99	7.3	25.4	142.5
Golden H2387	100	33.9	26.5	155.3
Golden H2441	105	16.5	27.0	149.6
NK PX9060	80	12.1	22.0	87.9
Pioneer 3394	110	1.5	30.7	120.6
Pioneer 3730	100	6.3	25.4	163.2
Pioneer 3845	90	10.2	24.1	115.0
Pioneer 3947	80	38.2	23.6	75.7
		12.9	25.2	129.6
<b><u>Probability %</u></b>				
Hybrid (H)		6.7	< 0.1	0.6
<b><u>LSD (0.10)</u></b>				
Hybrid (H)		16.4	1.8	29.1
<b><u>CV %</u></b>				
		91.3	3.9	16.0

**Table E-5. Determining Corn Hybrid Maturity - Comparison of Hybrids.  
Growth and Development  
Hancock, WI - 1996.**

Hybrid	Relative Maturity	Day of Year	Leaf Development			Plant Height cm
			Leaf Collars	Hail Adjuster's Method	Total Leaves	
Carhart's CX92A	90	.	8.2	10.2	11.4	87.7
Dairyland ST-1180	80	.	7.4	9.3	10.4	80.1
Dairyland ST-1289	90	.	8.2	10.0	11.3	86.8
Dairyland ST-1400	100	.	8.0	10.1	11.2	87.2
Dairyland ST-1412	110	.	7.5	9.3	10.5	87.8
Dekalb DK 580	108	.	8.2	10.2	11.3	83.6
Dekalb DK306	80	.	7.9	9.6	10.9	82.7
Dekalb DK385	88	.	7.9	9.9	11.1	82.6
Dekalb DK493	99	.	8.0	9.9	11.1	85.3
Golden H2387	100	.	8.0	10.2	11.3	89.6
Golden H2441	105	.	8.3	10.1	11.4	87.8
NK PX9060	80	.	7.8	9.8	10.7	82.5
Pioneer 3394	110	.	8.3	10.2	11.6	90.8
Pioneer 3730	100	.	7.7	9.7	10.8	91.4
Pioneer 3845	90	.	8.1	10.1	11.4	92.5
Pioneer 3947	80	.	8.1	9.9	11.1	91.3
		154	2.0	3.2	4.2	6.4
		162	3.1	4.9	6.0	13.4
		170	5.1	7.7	8.8	26.5
		177	6.2	8.9	10.1	31.3
		187	9.2	12.0	14.1	92.8
		196	12.1	14.7	16.4	153.0
		240	18.1	18.1	18.1	284.7
Carhart's CX92A	90	154	2.0	3.0	4.2	6.4
Carhart's CX92A	90	162	3.1	4.9	5.9	13.1
Carhart's CX92A	90	170	5.0	7.4	8.6	27.1
Carhart's CX92A	90	177	6.4	9.1	10.1	34.7
Carhart's CX92A	90	187	9.4	12.8	15.0	90.6
Carhart's CX92A	90	196	12.4	15.4	17.0	144.8
Carhart's CX92A	90	240	18.7	18.7	18.7	297.2
Dairyland ST-1180	80	154	2.0	3.1	4.0	5.9
Dairyland ST-1180	80	162	3.0	4.7	5.8	12.3
Dairyland ST-1180	80	170	5.0	7.4	8.4	23.3
Dairyland ST-1180	80	177	6.0	8.4	9.6	28.4
Dairyland ST-1180	80	187	8.8	11.9	13.9	85.5
Dairyland ST-1180	80	196	11.4	14.0	15.9	149.9
Dairyland ST-1180	80	240	16.0	16.0	16.0	255.7
Dairyland ST-1289	90	154	2.0	2.9	4.3	7.2
Dairyland ST-1289	90	162	3.0	4.8	5.8	11.0
Dairyland ST-1289	90	170	5.2	7.9	9.1	22.4
Dairyland ST-1289	90	177	6.7	8.9	10.3	31.8
Dairyland ST-1289	90	187	9.4	12.3	14.3	83.8
Dairyland ST-1289	90	196	12.3	15.0	16.6	149.0

**Table E-5. Determining Corn Hybrid Maturity - Comparison of Hybrids.  
Growth and Development  
Hancock, WI - 1996.**

Hybrid	Relative Maturity	Day of Year	Leaf Development			Plant Height cm
			Leaf Collars	Hail Adjuster's Method	Total Leaves	
Dairyland ST-1289	90	240	18.4	18.4	18.4	302.3
Dairyland ST-1400	100	154	2.0	3.4	4.1	6.4
Dairyland ST-1400	100	162	3.0	5.0	6.0	14.0
Dairyland ST-1400	100	170	5.1	7.7	8.7	23.7
Dairyland ST-1400	100	177	6.0	8.8	9.9	29.2
Dairyland ST-1400	100	187	9.0	11.9	13.8	85.1
Dairyland ST-1400	100	196	12.0	15.0	16.7	146.5
Dairyland ST-1400	100	240	19.1	19.1	19.1	305.7
Dairyland ST-1412	110	154	1.9	3.4	4.2	6.8
Dairyland ST-1412	110	162	3.0	4.4	5.4	13.6
Dairyland ST-1412	110	170	4.9	6.9	8.0	24.6
Dairyland ST-1412	110	177	5.6	7.6	8.8	32.2
Dairyland ST-1412	110	187	8.4	10.8	13.1	86.4
Dairyland ST-1412	110	196	11.3	14.6	16.4	154.9
Dairyland ST-1412	110	240	18.4	18.4	18.4	296.3
Dekalb DK 580	108	154	2.0	3.2	4.0	6.8
Dekalb DK 580	108	162	3.2	5.1	6.1	12.7
Dekalb DK 580	108	170	5.1	7.6	8.6	25.4
Dekalb DK 580	108	177	6.2	8.7	9.8	33.9
Dekalb DK 580	108	187	9.3	12.1	14.0	87.6
Dekalb DK 580	108	196	11.9	15.0	16.9	130.4
Dekalb DK 580	108	240	19.8	19.8	19.8	288.7
Dekalb DK306	80	154	2.0	2.4	4.3	4.9
Dekalb DK306	80	162	3.2	5.0	6.0	13.6
Dekalb DK306	80	170	5.1	8.0	9.1	27.5
Dekalb DK306	80	177	6.6	9.1	10.4	32.2
Dekalb DK306	80	187	9.6	12.1	14.1	100.8
Dekalb DK306	80	196	12.6	14.6	16.0	159.2
Dekalb DK306	80	240	16.1	16.1	16.1	240.5
Dekalb DK385	88	154	2.0	3.0	4.2	6.4
Dekalb DK385	88	162	3.0	4.9	5.9	13.1
Dekalb DK385	88	170	5.0	7.9	9.0	24.6
Dekalb DK385	88	177	6.1	8.7	9.8	29.6
Dekalb DK385	88	187	9.3	12.2	14.6	89.8
Dekalb DK385	88	196	12.2	15.0	16.6	151.6
Dekalb DK385	88	240	17.3	17.3	17.3	263.3
Dekalb DK493	99	154	2.0	2.9	4.0	6.4
Dekalb DK493	99	162	3.0	4.9	5.9	13.6
Dekalb DK493	99	170	5.0	7.6	8.7	24.1
Dekalb DK493	99	177	6.3	8.9	10.1	31.8
Dekalb DK493	99	187	9.0	11.7	13.8	88.5
Dekalb DK493	99	196	11.4	14.4	16.6	148.2
Dekalb DK493	99	240	19.0	19.0	19.0	284.5

**Table E-5. Determining Corn Hybrid Maturity - Comparison of Hybrids.  
Growth and Development  
Hancock, WI - 1996.**

Hybrid	Relative Maturity	Day of Year	Leaf Development			Plant Height cm
			Leaf Collars	Hail Adjuster's Method	Total Leaves	
Golden H2387	100	154	2.0	3.7	4.2	4.9
Golden H2387	100	162	3.0	5.2	6.2	12.3
Golden H2387	100	170	5.0	8.0	9.0	25.8
Golden H2387	100	177	6.1	9.0	10.3	26.3
Golden H2387	100	187	9.0	11.6	13.9	94.8
Golden H2387	100	196	11.7	14.4	16.4	162.6
Golden H2387	100	240	19.2	19.2	19.2	300.6
Golden H2441	105	154	2.0	3.0	4.1	4.9
Golden H2441	105	162	3.3	5.0	6.0	13.1
Golden H2441	105	170	5.4	7.9	9.0	25.8
Golden H2441	105	177	6.0	9.1	10.7	31.3
Golden H2441	105	187	9.7	12.1	14.4	93.1
Golden H2441	105	196	12.2	14.4	16.4	152.4
Golden H2441	105	240	19.3	19.3	19.3	293.8
NK PX9060	80	154	2.0	3.8	4.0	4.9
NK PX9060	80	162	3.0	5.0	6.1	13.6
NK PX9060	80	170	5.0	7.6	8.6	25.0
NK PX9060	80	177	6.1	8.9	9.9	32.2
NK PX9060	80	187	9.1	12.7	14.2	94.8
NK PX9060	80	196	12.6	14.4	15.7	150.7
NK PX9060	80	240	16.2	16.2	16.2	256.5
Pioneer 3394	110	154	2.0	3.3	4.7	9.3
Pioneer 3394	110	162	3.4	4.9	6.7	12.7
Pioneer 3394	110	170	5.0	8.0	9.0	30.5
Pioneer 3394	110	177	6.6	8.9	10.0	32.2
Pioneer 3394	110	187	9.3	12.1	14.1	99.9
Pioneer 3394	110	196	11.7	14.6	16.8	156.6
Pioneer 3394	110	240	19.8	19.8	19.8	294.6
Pioneer 3730	100	154	2.0	3.4	4.1	8.9
Pioneer 3730	100	162	3.0	4.4	5.6	14.0
Pioneer 3730	100	170	5.0	7.7	8.7	33.4
Pioneer 3730	100	177	6.0	9.1	10.3	30.9
Pioneer 3730	100	187	8.6	11.4	13.6	94.0
Pioneer 3730	100	196	12.1	14.7	16.1	151.6
Pioneer 3730	100	240	17.3	17.3	17.3	307.3
Pioneer 3845	90	154	2.1	2.7	4.3	6.8
Pioneer 3845	90	162	3.1	5.6	6.6	16.5
Pioneer 3845	90	170	5.1	7.8	9.0	29.6
Pioneer 3845	90	177	6.3	9.2	10.3	33.9
Pioneer 3845	90	187	9.2	12.0	14.4	99.9
Pioneer 3845	90	196	12.0	14.6	16.4	152.4
Pioneer 3845	90	240	18.7	18.7	18.7	308.2
Pioneer 3947	80	154	2.1	3.1	3.9	5.3

**Table E-5. Determining Corn Hybrid Maturity - Comparison of Hybrids.  
Growth and Development  
Hancock, WI - 1996.**

Hybrid	Relative Maturity	Day of Year	Leaf Development			Plant Height cm
			Leaf Collars	Hail Adjuster's Method	Total Leaves	
Pioneer 3947	80	162	3.0	4.9	6.0	14.8
Pioneer 3947	80	170	5.1	7.8	8.9	31.3
Pioneer 3947	80	177	6.7	9.6	10.9	30.5
Pioneer 3947	80	187	9.8	12.7	14.9	110.1
Pioneer 3947	80	196	13.3	14.4	16.2	187.1
Pioneer 3947	80	240	16.7	16.7	16.7	259.9
Mean		.	8.0	9.9	11.1	86.9
<b><u>Probability %</u></b>						
Hybrid (H)			< 0.1	< 0.1	< 0.1	< 0.1
Days (D)			< 0.1	< 0.1	< 0.1	< 0.1
H x D			< 0.1	< 0.1	< 0.1	< 0.1
<b><u>LSD (0.10)</u></b>						
Hybrid (H)			0.2	0.3	0.2	3.5
Day of Year (D)			0.1	0.2	0.1	1.9
<b><u>CV %</u></b>						
			6.2	5.5	4.9	6.6

**Table E-6. Determining Corn Hybrid Maturity.  
Comparison of Hybrids - Harvest Data.  
Hancock, WI - 1996.**

Hybrid	Relative Maturity	Broken Stalks %	Moisture %	Yield bu/a
Carhart's CX92A	90	2.5	26.4	183.0
Dairyland ST-1180	80	3.0	24.7	131.8
Dairyland ST-1289	90	2.5	24.0	150.9
Dairyland ST-1400	100	1.5	29.7	185.5
Dairyland ST-1412	110	1.5	37.2	179.4
Dekalb DK 580	108	1.5	41.4	164.2
Dekalb DK306	80	3.0	19.8	129.7
Dekalb DK385	88	2.0	21.8	172.5
Dekalb DK493	99	0.5	27.0	222.6
Golden H2387	100	1.0	28.2	241.1
Golden H2441	105	3.0	30.4	215.1
NK PX9060	80	0.0	21.8	121.6
Pioneer 3394	110	3.0	37.5	179.2
Pioneer 3730	100	0.5	25.6	199.1
Pioneer 3845	90	1.0	23.2	191.8
Pioneer 3947	80	2.0	22.3	128.1
Mean		1.8	27.6	174.7
<b><u>Probability %</u></b>				
Hybrid (H)		> 50	< 0.1	< 0.1
<b><u>LSD (0.10)</u></b>				
Hybrid (H)		NS	2.6	24.9
<b><u>CV %</u></b>				
		99.9	6.9	10.3

**Table E-7.**

**Determining Corn Hybrid Maturity - Comparison of Hybrids.  
Growth and Development  
Janesville, WI - 1996.**

Hybrid	Relative Maturity	Day of Year	Leaf Development			Plant Height cm
			Leaf Collars	Hail Adjuster's Method	Total Leaves	
Carhart's CX92A	90	.	8.3	9.9	11.2	91.9
Dairyland ST-1180	80	.	7.8	9.4	10.6	82.9
Dairyland ST-1289	90	.	8.5	10.3	11.6	95.6
Dairyland ST-1400	100	.	8.3	10.1	11.3	90.3
Dairyland ST-1412	110	.	8.0	9.4	10.8	95.3
Dekalb DK 580	108	.	8.3	10.1	11.4	88.5
Dekalb DK306	80	.	8.4	9.8	11.0	89.4
Dekalb DK385	88	.	8.3	9.8	11.1	91.6
Dekalb DK493	99	.	8.3	9.8	11.0	91.7
Golden H2387	100	.	8.4	10.1	11.5	91.3
Golden H2441	105	.	8.6	10.2	11.5	94.0
NK PX9060	80	.	8.2	10.0	11.1	89.1
Pioneer 3394	110	.	8.3	9.9	11.4	95.6
Pioneer 3730	100	.	8.2	9.9	11.2	100.0
Pioneer 3845	90	.	8.5	10.2	11.6	101.6
Pioneer 3947	80	.	8.5	9.9	11.1	96.6
		155	1.9	2.9	3.9	7.0
		163	3.0	4.2	5.3	12.3
		171	5.0	7.6	8.7	33.7
		180	7.0	9.6	11.6	66.4
		190	9.7	12.5	14.9	113.7
		199	13.5	14.8	16.3	157.7
		239	17.9	17.9	17.9	259.1
Carhart's CX92A	90	155	1.8	2.8	3.9	6.4
Carhart's CX92A	90	163	3.0	4.1	5.2	11.9
Carhart's CX92A	90	171	4.9	7.2	8.7	31.3
Carhart's CX92A	90	180	7.2	9.9	11.8	65.2
Carhart's CX92A	90	190	9.8	12.7	15.2	103.3
Carhart's CX92A	90	199	13.2	14.6	16.0	159.2
Carhart's CX92A	90	239	17.9	17.9	17.9	265.9
Dairyland ST-1180	80	155	1.9	2.8	3.8	6.4
Dairyland ST-1180	80	163	2.9	4.0	5.0	9.3
Dairyland ST-1180	80	171	4.7	7.2	8.2	30.1
Dairyland ST-1180	80	180	6.6	9.3	11.2	60.1
Dairyland ST-1180	80	190	9.3	12.4	14.6	94.0
Dairyland ST-1180	80	199	13.4	14.3	15.6	154.1
Dairyland ST-1180	80	239	15.9	15.9	15.9	226.1
Dairyland ST-1289	90	155	1.6	2.9	3.9	5.9
Dairyland ST-1289	90	163	3.0	4.1	5.2	11.4
Dairyland ST-1289	90	171	5.0	8.3	9.3	31.3
Dairyland ST-1289	90	180	7.1	10.2	11.8	62.7



**Table E-7. Determining Corn Hybrid Maturity - Comparison of Hybrids.  
Growth and Development  
Janesville, WI - 1996.**

Hybrid	Relative Maturity	Day of Year	Leaf Development			Plant Height cm
			Leaf Collars	Hail Adjuster's Method	Total Leaves	
Dairyland ST-1289	90	190	10.0	12.8	15.3	116.0
Dairyland ST-1289	90	199	14.1	15.3	17.0	170.2
Dairyland ST-1289	90	239	18.4	18.4	18.4	271.8
Dairyland ST-1400	100	155	1.8	3.1	4.0	7.2
Dairyland ST-1400	100	163	3.0	4.1	5.2	12.3
Dairyland ST-1400	100	171	5.0	7.3	8.3	30.5
Dairyland ST-1400	100	180	7.0	9.3	11.2	62.2
Dairyland ST-1400	100	190	9.3	12.7	15.2	104.1
Dairyland ST-1400	100	199	13.1	15.0	16.4	132.1
Dairyland ST-1400	100	239	18.8	18.8	18.8	283.6
Dairyland ST-1412	110	155	1.9	2.4	3.6	6.8
Dairyland ST-1412	110	163	2.7	3.6	4.7	11.4
Dairyland ST-1412	110	171	4.9	6.9	8.2	32.2
Dairyland ST-1412	110	180	6.4	8.9	10.7	63.9
Dairyland ST-1412	110	190	9.1	11.9	14.2	112.6
Dairyland ST-1412	110	199	12.4	14.1	15.7	160.9
Dairyland ST-1412	110	239	18.2	18.2	18.2	279.4
Dekalb DK 580	108	155	1.8	2.9	3.9	6.4
Dekalb DK 580	108	163	3.0	3.9	4.9	10.2
Dekalb DK 580	108	171	5.2	8.0	9.0	31.3
Dekalb DK 580	108	180	7.0	9.2	11.2	58.4
Dekalb DK 580	108	190	9.2	12.4	14.9	103.7
Dekalb DK 580	108	199	12.6	14.4	16.8	142.2
Dekalb DK 580	108	239	19.4	19.4	19.4	267.6
Dekalb DK306	80	155	2.0	2.9	4.0	7.6
Dekalb DK306	80	163	3.1	4.4	5.8	11.9
Dekalb DK306	80	171	5.1	7.6	8.6	33.9
Dekalb DK306	80	180	7.2	10.0	12.3	66.0
Dekalb DK306	80	190	10.8	13.1	15.0	123.6
Dekalb DK306	80	199	14.8	14.9	15.7	160.0
Dekalb DK306	80	239	15.6	15.6	15.6	222.7
Dekalb DK385	88	155	1.9	2.7	3.8	5.9
Dekalb DK385	88	163	3.0	4.2	5.2	12.3
Dekalb DK385	88	171	5.0	7.3	8.3	33.9
Dekalb DK385	88	180	6.9	9.0	11.3	69.0
Dekalb DK385	88	190	9.7	12.3	14.7	112.6
Dekalb DK385	88	199	13.8	14.9	16.6	159.2
Dekalb DK385	88	239	17.9	17.9	17.9	248.1
Dekalb DK493	99	155	1.7	2.6	3.4	6.4
Dekalb DK493	99	163	2.9	3.9	4.9	12.3
Dekalb DK493	99	171	5.0	7.4	8.6	30.5
Dekalb DK493	99	180	7.0	9.3	11.1	63.9
Dekalb DK493	99	190	9.6	12.1	14.2	109.2

**Table E-7. Determining Corn Hybrid Maturity - Comparison of Hybrids.  
Growth and Development  
Janesville, WI - 1996.**

Hybrid	Relative Maturity	Day of Year	Leaf Development			Plant Height cm
			Leaf Collars	Hail Adjuster's Method	Total Leaves	
Dekalb DK493	99	199	12.9	14.6	16.2	153.3
Dekalb DK493	99	239	18.8	18.8	18.8	266.7
Golden H2387	100	155	1.9	3.0	4.0	7.2
Golden H2387	100	163	3.0	4.2	5.4	12.3
Golden H2387	100	171	5.0	7.6	8.8	33.9
Golden H2387	100	180	6.9	9.4	11.8	63.9
Golden H2387	100	190	9.6	12.3	14.6	113.9
Golden H2387	100	199	12.9	14.6	16.7	147.3
Golden H2387	100	239	19.2	19.2	19.2	260.8
Golden H2441	105	155	2.0	3.2	4.0	7.2
Golden H2441	105	163	3.0	4.1	5.2	11.0
Golden H2441	105	171	5.6	7.9	8.9	31.8
Golden H2441	105	180	7.7	9.8	11.8	69.9
Golden H2441	105	190	10.0	12.4	15.1	116.0
Golden H2441	105	199	13.3	15.2	16.7	161.7
Golden H2441	105	239	18.9	18.9	18.9	260.8
NK PX9060	80	155	2.0	3.3	4.3	7.6
NK PX9060	80	163	3.0	4.6	5.7	12.3
NK PX9060	80	171	5.2	8.3	9.3	33.9
NK PX9060	80	180	7.1	10.1	12.2	64.4
NK PX9060	80	190	10.0	12.9	14.9	113.5
NK PX9060	80	199	14.1	14.7	15.6	154.1
NK PX9060	80	239	15.9	15.9	15.9	237.9
Pioneer 3394	110	155	1.9	3.0	4.0	7.6
Pioneer 3394	110	163	3.0	4.3	5.4	14.4
Pioneer 3394	110	171	5.0	7.7	8.8	39.0
Pioneer 3394	110	180	6.9	9.1	11.0	70.3
Pioneer 3394	110	190	9.4	11.7	14.4	116.4
Pioneer 3394	110	199	12.4	14.1	16.6	149.9
Pioneer 3394	110	239	19.3	19.3	19.3	271.8
Pioneer 3730	100	155	1.9	3.0	4.0	7.6
Pioneer 3730	100	163	2.9	4.0	5.1	14.8
Pioneer 3730	100	171	4.9	7.4	8.6	39.8
Pioneer 3730	100	180	7.1	9.6	11.4	69.9
Pioneer 3730	100	190	9.7	12.6	15.0	118.5
Pioneer 3730	100	199	13.2	14.8	16.3	164.3
Pioneer 3730	100	239	17.8	17.8	17.8	285.3
Pioneer 3845	90	155	2.0	3.2	4.1	9.3
Pioneer 3845	90	163	3.0	4.6	5.7	16.5
Pioneer 3845	90	171	5.2	8.0	9.1	42.3
Pioneer 3845	90	180	7.1	9.8	12.0	82.6
Pioneer 3845	90	190	9.9	12.4	15.1	129.5
Pioneer 3845	90	199	14.0	15.0	16.6	170.2

**Table E-7. Determining Corn Hybrid Maturity - Comparison of Hybrids.  
Growth and Development  
Janesville, WI - 1996.**

Hybrid	Relative Maturity	Day of Year	Leaf Development			Plant Height cm
			Leaf Collars	Hail Adjuster's Method	Total Leaves	
Pioneer 3845	90	239	18.6	18.6	18.6	260.8
Pioneer 3947	80	155	1.9	3.1	4.0	6.8
Pioneer 3947	80	163	3.0	4.3	5.4	12.7
Pioneer 3947	80	171	5.0	7.4	8.7	34.3
Pioneer 3947	80	180	7.3	10.0	12.2	69.4
Pioneer 3947	80	190	10.6	12.8	15.3	132.1
Pioneer 3947	80	199	15.3	15.7	16.1	184.6
Pioneer 3947	80	239	16.1	16.1	16.1	236.2
Mean		.	8.3	9.9	11.2	92.8
<b><u>Probability %</u></b>						
Hybrid (H)			1.7	4.4	1.7	< 0.1
Days (D)			< 0.1	< 0.1	< 0.1	< 0.1
H x D			< 0.1	< 0.1	< 0.1	< 0.1
<b><u>LSD (0.10)</u></b>						
Hybrid (H)			0.3	0.4	0.4	3.8
Day of Year (D)			0.1	0.1	0.1	1.7
<b><u>CV %</u></b>						
			6.7	6.6	5.9	5.6

**Table E-8. Determining Corn Hybrid Maturity.  
Comparison of Hybrids - Harvest Data.  
Janesville, WI - 1996.**

Hybrid	Relative Maturity	Broken Stalks %	Moisture %	Yield bu/a
Carhart's CX92A	90	2.7	19.0	168.7
Dairyland ST-1180	80	2.7	19.2	93.0
Dairyland ST-1289	90	11.2	19.7	171.3
Dairyland ST-1400	100	7.5	19.1	169.4
Dairyland ST-1412	110	2.7	24.4	217.8
Dekalb DK 580	108	3.2	24.3	215.4
Dekalb DK306	80	25.7	17.3	114.0
Dekalb DK385	88	11.8	17.8	134.3
Dekalb DK493	99	5.4	19.0	212.8
Golden H2387	100	13.4	21.7	220.0
Golden H2441	105	10.7	22.1	210.7
NK PX9060	80	8.0	17.7	112.1
Pioneer 3394	110	2.7	23.8	196.7
Pioneer 3730	100	4.3	20.8	211.9
Pioneer 3845	90	6.4	19.3	163.8
Pioneer 3947	80	5.4	18.6	119.3
Mean		7.7	20.2	170.7
<b><u>Probability %</u></b>				
Hybrid (H)		< 0.1	< 0.1	< 0.1
<b><u>LSD (0.10)</u></b>				
Hybrid (H)		6.2	1.1	28.3
<b><u>CV %</u></b>				
		58.3	4.1	12.0

**Table E-9.**

**Determining Corn Hybrid Maturity - Comparison of Hybrids.  
Growth and Development  
Lancaster, WI - 1996.**

Hybrid	Relative Maturity	Day of Year	Leaf Development			Plant Height cm
			Leaf Collars	Hail Adjuster's Method	Total Leaves	
Carhart's CX92A	90	.	7.5	9.1	10.3	82.2
Dairyland ST-1180	80	.	7.0	8.7	10.0	79.9
Dairyland ST-1289	90	.	7.4	8.9	10.2	85.7
Dairyland ST-1400	100	.	7.6	9.0	10.3	86.9
Dairyland ST-1412	110	.	7.4	8.6	10.0	85.4
Dekalb DK 580	108	.	7.7	9.3	10.7	84.7
Dekalb DK306	80	.	7.5	8.9	10.2	82.0
Dekalb DK385	88	.	7.3	8.9	10.2	79.3
Dekalb DK493	99	.	7.6	9.0	10.4	85.8
Golden H2387	100	.	7.7	9.2	10.8	90.5
Golden H2441	105	.	7.7	9.0	10.5	84.8
NK PX9060	80	.	6.9	8.6	9.8	81.2
Pioneer 3394	110	.	7.7	9.2	10.7	94.0
Pioneer 3730	100	.	7.5	8.9	10.4	91.9
Pioneer 3845	90	.	7.9	9.5	10.9	94.1
Pioneer 3947	80	.	7.0	8.6	10.1	87.9
		157	1.9	2.7	3.9	6.1
		165	3.0	4.6	5.6	12.4
		173	4.2	6.0	7.2	22.5
		178	5.8	8.2	9.7	54.4
		190	9.1	11.9	14.2	116.9
		197	11.6	12.6	15.2	144.4
		220	17.2	17.2	17.2	245.5
Carhart's CX92A	90	157	2.1	2.8	3.9	5.5
Carhart's CX92A	90	165	3.0	4.9	5.9	12.7
Carhart's CX92A	90	173	4.3	6.2	7.3	24.1
Carhart's CX92A	90	178	6.2	8.6	9.9	51.7
Carhart's CX92A	90	190	9.7	12.7	14.2	108.4
Carhart's CX92A	90	197	11.7	13.0	15.4	139.0
Carhart's CX92A	90	220	17.1	17.1	17.1	233.7
Dairyland ST-1180	80	157	1.9	2.8	4.0	5.9
Dairyland ST-1180	80	165	2.9	4.4	5.6	11.4
Dairyland ST-1180	80	173	3.8	5.7	6.8	20.3
Dairyland ST-1180	80	178	5.4	7.9	9.2	50.8
Dairyland ST-1180	80	190	8.8	12.0	13.8	111.8
Dairyland ST-1180	80	197	10.7	12.0	15.0	136.7
Dairyland ST-1180	80	220	15.8	15.8	15.8	222.7
Dairyland ST-1289	90	157	2.0	2.7	3.7	5.9
Dairyland ST-1289	90	165	3.0	4.4	5.4	11.0
Dairyland ST-1289	90	173	3.7	5.1	6.3	19.9
Dairyland ST-1289	90	178	5.6	7.9	9.0	50.8
Dairyland ST-1289	90	190	8.6	12.1	13.9	121.1
Dairyland ST-1289	90	197	11.3	12.4	15.0	145.0

**Table E-9. Determining Corn Hybrid Maturity - Comparison of Hybrids.  
Growth and Development  
Lancaster, WI - 1996.**

Hybrid	Relative Maturity	Day of Year	Leaf Development			Plant Height cm
			Leaf Collars	Hail Adjuster's Method	Total Leaves	
Dairyland ST-1289	90	220	18.2	18.2	18.2	246.4
Dairyland ST-1400	100	157	2.0	2.9	3.7	6.4
Dairyland ST-1400	100	165	3.0	4.3	5.2	12.3
Dairyland ST-1400	100	173	4.2	5.4	7.0	23.3
Dairyland ST-1400	100	178	5.8	8.1	9.4	50.0
Dairyland ST-1400	100	190	8.8	11.8	14.0	105.0
Dairyland ST-1400	100	197	11.3	12.4	14.9	142.3
Dairyland ST-1400	100	220	18.0	18.0	18.0	269.2
Dairyland ST-1412	110	157	1.9	2.6	3.4	6.8
Dairyland ST-1412	110	165	2.9	3.9	4.9	11.0
Dairyland ST-1412	110	173	3.8	5.6	6.6	19.1
Dairyland ST-1412	110	178	5.8	7.6	9.2	50.0
Dairyland ST-1412	110	190	8.6	11.3	13.4	103.3
Dairyland ST-1412	110	197	12.0	12.7	15.4	155.7
Dairyland ST-1412	110	220	16.9	16.9	16.9	252.3
Dekalb DK 580	108	157	1.9	2.7	3.9	5.9
Dekalb DK 580	108	165	3.0	4.6	5.6	13.1
Dekalb DK 580	108	173	4.1	5.9	7.1	22.4
Dekalb DK 580	108	178	6.1	8.3	9.8	51.7
Dekalb DK 580	108	190	9.1	12.0	14.6	110.9
Dekalb DK 580	108	197	11.6	13.1	15.8	138.4
Dekalb DK 580	108	220	18.3	18.3	18.3	250.6
Dekalb DK306	80	157	2.0	2.6	3.9	5.9
Dekalb DK306	80	165	3.0	4.8	5.9	10.6
Dekalb DK306	80	173	3.9	5.6	6.7	22.0
Dekalb DK306	80	178	5.6	7.9	9.3	55.0
Dekalb DK306	80	190	9.2	11.9	13.6	122.8
Dekalb DK306	80	197	12.0	12.9	15.2	155.1
Dekalb DK306	80	220	16.6	16.6	16.6	202.4
Dekalb DK385	88	157	1.7	2.6	3.7	5.1
Dekalb DK385	88	165	3.0	4.4	5.4	10.2
Dekalb DK385	88	173	3.9	5.7	6.7	20.3
Dekalb DK385	88	178	5.8	8.3	9.4	50.0
Dekalb DK385	88	190	8.8	12.3	14.6	105.8
Dekalb DK385	88	197	11.6	12.7	15.2	138.4
Dekalb DK385	88	220	16.6	16.6	16.6	225.2
Dekalb DK493	99	157	2.0	2.7	3.7	5.1
Dekalb DK493	99	165	3.0	4.3	5.3	12.3
Dekalb DK493	99	173	4.4	6.1	7.3	22.0
Dekalb DK493	99	178	5.7	7.8	9.7	59.3
Dekalb DK493	99	190	8.9	12.1	14.4	111.8
Dekalb DK493	99	197	11.3	12.4	14.8	134.3
Dekalb DK493	99	220	17.7	17.7	17.7	255.7

**Table E-9. Determining Corn Hybrid Maturity - Comparison of Hybrids.  
Growth and Development  
Lancaster, WI - 1996.**

Hybrid	Relative Maturity	Day of Year	Leaf Development			Plant Height cm
			Leaf Collars	Hail Adjuster's Method	Total Leaves	
Golden H2387	100	157	2.0	2.6	4.0	6.8
Golden H2387	100	165	3.0	4.6	5.8	12.3
Golden H2387	100	173	4.4	7.1	8.0	24.1
Golden H2387	100	178	6.1	8.7	10.3	55.9
Golden H2387	100	190	9.4	11.8	14.4	127.0
Golden H2387	100	197	11.4	12.4	15.6	150.0
Golden H2387	100	220	17.3	17.3	17.3	257.4
Golden H2441	105	157	1.9	2.3	3.8	5.9
Golden H2441	105	165	3.0	4.4	5.4	10.6
Golden H2441	105	173	4.6	6.4	7.4	20.7
Golden H2441	105	178	6.4	8.4	10.0	53.3
Golden H2441	105	190	9.6	12.0	14.4	114.3
Golden H2441	105	197	11.4	12.4	15.5	146.0
Golden H2441	105	220	17.3	17.3	17.3	243.0
NK PX9060	80	157	2.0	3.0	3.9	5.5
NK PX9060	80	165	3.0	4.7	5.7	11.0
NK PX9060	80	173	4.0	6.2	7.1	19.5
NK PX9060	80	178	5.0	7.7	9.0	48.3
NK PX9060	80	190	8.4	11.3	13.2	105.8
NK PX9060	80	197	11.4	12.7	15.1	138.9
NK PX9060	80	220	15.5	15.5	15.5	239.6
Pioneer 3394	110	157	2.0	2.9	4.1	5.9
Pioneer 3394	110	165	3.0	4.9	6.0	16.5
Pioneer 3394	110	173	4.6	6.3	7.4	26.3
Pioneer 3394	110	178	5.9	8.2	9.7	62.7
Pioneer 3394	110	190	8.9	11.2	14.1	133.8
Pioneer 3394	110	197	12.1	13.3	16.0	151.0
Pioneer 3394	110	220	17.7	17.7	17.7	261.6
Pioneer 3730	100	157	2.0	2.4	4.0	7.2
Pioneer 3730	100	165	3.0	4.6	5.6	15.7
Pioneer 3730	100	173	4.1	6.3	7.8	25.8
Pioneer 3730	100	178	6.0	8.3	10.0	63.5
Pioneer 3730	100	190	8.9	11.3	13.9	118.5
Pioneer 3730	100	197	11.3	12.1	14.1	145.0
Pioneer 3730	100	220	17.3	17.3	17.3	267.6
Pioneer 3845	90	157	2.0	2.7	4.0	6.8
Pioneer 3845	90	165	3.1	5.1	6.2	14.4
Pioneer 3845	90	173	4.6	6.2	7.7	26.3
Pioneer 3845	90	178	6.1	8.8	10.2	59.3
Pioneer 3845	90	190	9.7	12.6	15.0	129.5
Pioneer 3845	90	197	12.3	12.9	15.1	149.9
Pioneer 3845	90	220	18.3	18.3	18.3	272.6
Pioneer 3947	80	157	1.7	2.8	4.0	6.8

**Table E-9. Determining Corn Hybrid Maturity - Comparison of Hybrids.  
Growth and Development  
Lancaster, WI - 1996.**

Hybrid	Relative Maturity	Day of Year	Leaf Development			Plant Height cm
			Leaf Collars	Hail Adjuster's Method	Total Leaves	
Pioneer 3947	80	165	3.0	4.7	5.7	13.1
Pioneer 3947	80	173	4.0	6.0	7.3	24.6
Pioneer 3947	80	178	6.0	8.8	10.1	58.0
Pioneer 3947	80	190	9.8	12.1	14.9	140.6
Pioneer 3947	80	197	12.0	12.8	15.1	144.0
Pioneer 3947	80	220	16.3	16.3	16.3	228.6
Mean		.	7.5	9.0	10.3	86.0
<b><u>Probability %</u></b>						
Hybrid (H)			4.2	10.3	6.9	< 0.1
Days (D)			< 0.1	< 0.1	< 0.1	< 0.1
H x D			32.7	24.5	25.0	< 0.1
<b><u>LSD (0.10)</u></b>						
Hybrid (H)			0.4	NS	0.5	5.6
Day of Year (D)			0.2	0.2	0.2	3.2
<b><u>CV %</u></b>						
			9.0	9.0	8.4	11.0



**Table E-10. Determining Corn Hybrid Maturity.  
Comparison of Hybrids - Harvest Data.  
Lancaster, WI - 1996.**

Hybrid	Relative Maturity	Broken Stalks %	Moisture %	Yield bu/a
Carhart's CX92A	90	8.9	21.7	120.2
Dairyland ST-1180	80	27.5	18.9	36.0
Dairyland ST-1289	90	1.9	22.0	164.0
Dairyland ST-1400	100	3.8	22.0	153.9
Dairyland ST-1412	110	0.9	32.5	169.4
Dekalb DK 580	108	2.1	31.1	171.9
Dekalb DK306	80	4.9	21.8	75.3
Dekalb DK385	88	2.1	21.2	120.2
Dekalb DK493	99	4.7	23.1	156.6
Golden H2387	100	14.8	25.3	134.7
Golden H2441	105	6.3	25.7	169.4
NK PX9060	80	4.2	21.0	98.1
Pioneer 3394	110	3.3	32.0	157.4
Pioneer 3730	100	3.5	26.2	136.4
Pioneer 3845	90	2.4	22.6	128.3
Pioneer 3947	80	34.5	21.6	106.3
Mean		7.0	24.6	138.6
<b><u>Probability %</u></b>				
Hybrid (H)		5.6	< 0.1	< 0.1
<b><u>LSD (0.10)</u></b>				
Hybrid (H)		16.0	1.6	28.6
<b><u>CV %</u></b>				
		133.3	4.7	14.6

**Table E-11.**

**Determining Corn Hybrid Maturity - Comparison of Hybrids.  
Growth and Development  
West Madison, WI - 1996.**

Hybrid	Relative Maturity	Day of Year	Leaf Development			Plant Height cm
			Leaf Collars	Hail Adjuster's Method	Total Leaves	
Carhart's CX92A	90	.	7.8	9.7	11.1	89.1
Dairyland ST-1180	80	.	7.4	9.3	10.7	86.4
Dairyland ST-1289	90	.	7.7	9.5	11.0	92.8
Dairyland ST-1400	100	.	7.8	9.7	11.0	91.2
Dairyland ST-1412	110	.	7.7	9.5	10.8	93.3
Dekalb DK 580	108	.	7.9	9.9	11.2	92.4
Dekalb DK306	80	.	7.5	9.1	10.5	86.2
Dekalb DK385	88	.	7.6	9.5	10.8	91.2
Dekalb DK493	99	.	7.9	9.6	11.0	92.6
Golden H2387	100	.	7.9	9.9	11.2	95.0
Golden H2441	105	.	7.9	9.7	11.1	88.5
NK PX9060	80	.	7.3	9.3	10.5	88.2
Pioneer 3394	110	.	8.0	9.9	11.2	93.2
Pioneer 3730	100	.	7.5	9.4	10.8	95.7
Pioneer 3845	90	.	7.7	9.7	10.9	97.6
Pioneer 3947	80	.	7.6	9.6	10.9	94.8
		164	1.4	2.7	3.8	6.6
		172	3.9	5.7	6.7	21.3
		179	5.0	7.4	8.6	39.4
		188	7.9	10.9	13.3	86.5
		196	10.3	13.2	15.3	127.8
		219	17.6	17.6	17.6	269.0
Carhart's CX92A	90	164	1.6	2.6	3.8	6.4
Carhart's CX92A	90	172	4.1	5.8	7.0	22.9
Carhart's CX92A	90	179	4.9	7.6	8.9	39.0
Carhart's CX92A	90	188	8.1	11.7	14.0	79.6
Carhart's CX92A	90	196	10.6	13.6	15.3	125.3
Carhart's CX92A	90	219	17.3	17.3	17.3	261.6
Dairyland ST-1180	80	164	1.1	2.7	4.0	6.8
Dairyland ST-1180	80	172	3.9	5.9	7.0	22.0
Dairyland ST-1180	80	179	5.0	7.6	9.0	38.1
Dairyland ST-1180	80	188	7.9	10.8	13.1	81.3
Dairyland ST-1180	80	196	10.1	13.0	15.2	121.1
Dairyland ST-1180	80	219	16.1	16.1	16.1	248.9
Dairyland ST-1289	90	164	1.3	2.7	4.0	5.9
Dairyland ST-1289	90	172	4.0	5.4	6.4	19.9
Dairyland ST-1289	90	179	4.8	7.2	8.2	39.0
Dairyland ST-1289	90	188	7.9	10.9	13.7	81.3
Dairyland ST-1289	90	196	10.4	13.0	15.8	128.7
Dairyland ST-1289	90	219	17.7	17.7	17.7	281.9
Dairyland ST-1400	100	164	1.6	2.8	4.0	6.8
Dairyland ST-1400	100	172	4.0	5.4	6.8	17.8
Dairyland ST-1400	100	179	5.0	6.8	7.9	40.6

**Table E-11. Determining Corn Hybrid Maturity - Comparison of Hybrids.  
Growth and Development  
West Madison, WI - 1996.**

Hybrid	Relative Maturity	Day of Year	Leaf Development			Plant Height cm
			Leaf Collars	Hail Adjuster's Method	Total Leaves	
Dairyland ST-1400	100	188	7.7	10.9	13.2	79.6
Dairyland ST-1400	100	196	9.9	13.6	15.3	116.0
Dairyland ST-1400	100	219	18.6	18.6	18.6	286.2
Dairyland ST-1412	110	164	1.2	2.7	3.4	6.8
Dairyland ST-1412	110	172	3.4	5.2	6.2	19.5
Dairyland ST-1412	110	179	5.0	7.1	8.3	36.4
Dairyland ST-1412	110	188	7.4	10.1	13.0	83.0
Dairyland ST-1412	110	196	10.1	13.1	15.1	123.6
Dairyland ST-1412	110	219	18.4	18.4	18.4	290.4
Dekalb DK 580	108	164	1.3	3.0	4.0	6.4
Dekalb DK 580	108	172	4.0	5.4	6.4	20.7
Dekalb DK 580	108	179	5.0	7.6	8.8	38.1
Dekalb DK 580	108	188	8.0	10.9	13.0	85.5
Dekalb DK 580	108	196	10.1	13.3	15.8	126.2
Dekalb DK 580	108	219	19.2	19.2	19.2	277.7
Dekalb DK306	80	164	1.6	2.3	3.9	5.9
Dekalb DK306	80	172	4.1	6.0	7.1	21.6
Dekalb DK306	80	179	5.0	7.6	8.8	42.3
Dekalb DK306	80	188	8.0	10.8	13.2	85.5
Dekalb DK306	80	196	10.6	12.7	14.3	134.6
Dekalb DK306	80	219	15.2	15.2	15.2	226.9
Dekalb DK385	88	164	1.4	2.2	3.7	6.4
Dekalb DK385	88	172	3.9	5.4	6.4	23.7
Dekalb DK385	88	179	4.8	7.4	8.4	39.0
Dekalb DK385	88	188	7.9	11.2	13.4	80.4
Dekalb DK385	88	196	10.6	13.3	15.6	127.9
Dekalb DK385	88	219	17.1	17.1	17.1	270.1
Dekalb DK493	99	164	1.3	2.7	3.7	5.9
Dekalb DK493	99	172	3.8	5.3	6.6	19.1
Dekalb DK493	99	179	5.0	6.9	8.3	37.3
Dekalb DK493	99	188	8.0	10.4	13.3	86.4
Dekalb DK493	99	196	10.1	13.0	15.2	126.2
Dekalb DK493	99	219	19.1	19.1	19.1	281.1
Golden H2387	100	164	1.6	2.8	3.8	5.9
Golden H2387	100	172	4.0	5.9	6.8	19.9
Golden H2387	100	179	5.0	7.7	8.8	41.5
Golden H2387	100	188	7.9	10.9	13.3	91.4
Golden H2387	100	196	10.2	13.2	15.2	129.5
Golden H2387	100	219	19.0	19.0	19.0	281.9
Golden H2441	105	164	1.3	2.3	3.3	5.9
Golden H2441	105	172	4.0	5.8	7.0	16.9
Golden H2441	105	179	4.8	7.4	8.5	35.6
Golden H2441	105	188	7.9	10.7	13.1	82.1
Golden H2441	105	196	10.1	13.0	15.8	121.9
Golden H2441	105	219	18.8	18.8	18.8	268.4

**Table E-11. Determining Corn Hybrid Maturity - Comparison of Hybrids.  
Growth and Development  
West Madison, WI - 1996.**

Hybrid	Relative Maturity	Day of Year	Leaf Development			Plant Height cm
			Leaf Collars	Hail Adjuster's Method	Total Leaves	
NK PX9060	80	164	1.7	2.8	4.0	6.8
NK PX9060	80	172	4.0	6.0	7.0	20.3
NK PX9060	80	179	5.0	7.4	8.8	38.1
NK PX9060	80	188	7.9	11.2	13.4	88.1
NK PX9060	80	196	10.4	13.4	14.9	134.6
NK PX9060	80	219	14.8	14.8	14.8	241.3
Pioneer 3394	110	164	1.2	2.4	3.9	8.0
Pioneer 3394	110	172	4.0	5.8	6.8	25.4
Pioneer 3394	110	179	5.0	7.6	8.9	41.5
Pioneer 3394	110	188	8.0	10.7	13.0	91.4
Pioneer 3394	110	196	10.3	13.3	15.4	131.2
Pioneer 3394	110	219	19.3	19.3	19.3	261.6
Pioneer 3730	100	164	1.6	2.6	3.9	7.6
Pioneer 3730	100	172	3.7	5.4	6.7	25.8
Pioneer 3730	100	179	5.0	7.6	8.6	40.6
Pioneer 3730	100	188	7.7	10.9	13.0	94.0
Pioneer 3730	100	196	10.1	12.9	15.2	121.1
Pioneer 3730	100	219	17.2	17.2	17.2	285.3
Pioneer 3845	90	164	1.8	3.1	4.1	8.5
Pioneer 3845	90	172	4.0	6.1	7.1	24.1
Pioneer 3845	90	179	5.0	7.6	8.7	44.9
Pioneer 3845	90	188	8.0	11.0	13.4	88.1
Pioneer 3845	90	196	10.4	13.3	15.2	135.5
Pioneer 3845	90	219	16.8	16.8	16.8	284.5
Pioneer 3947	80	164	1.2	2.9	3.8	6.4
Pioneer 3947	80	172	3.6	5.6	6.6	21.6
Pioneer 3947	80	179	5.1	7.3	8.6	38.1
Pioneer 3947	80	188	8.1	11.0	13.9	105.8
Pioneer 3947	80	196	10.8	13.8	16.0	141.4
Pioneer 3947	80	219	16.8	16.8	16.8	255.7
Mean	.	.	7.7	9.6	10.9	91.8
<b>Probability %</b>						
Hybrid (H)			< 0.1	< 0.1	< 0.1	< 0.1
Days (D)			< 0.1	< 0.1	< 0.1	< 0.1
H x D			< 0.1	< 0.1	< 0.1	< 0.1
<b>LSD (0.10)</b>						
Hybrid (H)			0.2	0.3	0.3	3.5
Day of Year (D)			0.1	0.1	0.1	1.6
<b>CV %</b>						
			5.6	5.7	4.8	5.2