

FIELD EXPERIMENT HISTORY

Title: Determining Corn Hybrid Maturity - Comparison of Sweet Corn Hybrids.

Year: 1996

Personnel: J.G. Lauer, K.D. Hudelson

Supported by: Hatch

EXPERIMENTAL PROCEDURE

Exp. Design: RCB

Replicates: 3

Variables: Hybrids:
 Challenger Heritage Mystery
 Delectable How Sweet It Is SS Jubilee
 Empire Incredible Sprint
 Excellency Jubilee Sugar Buns
 GH 1703 Miracle Zenith

Area Planted: 2.5' x 25'

Planting Equip: Kinze Plot Planter w/seed cones or hand planted

Planting Rate: 40,000 thinned to 28,000 plants/a

Row Spacing: 30"

FIELD INFORMATION

Location	Results in Tables	Soil Type	Previous Crop	Planting Date	Tillage Operations	--Soil Test--			--Nitrogen Fertilizer--			Weed Control	Insecticides
						pH	P	K	actual	form	time		
Arlington	E-22.	Plano Silt Loam	Soybean	26-Apr	Chisel Plow Field Cult.(2x)	6.8	76	215	150 9	46-0-0 6-24-24	preplant planting	Bladex 2qts/A Lasso 2qts/A	None
Fond du Lac	E-23.	Virgil Silt Loam	Soybean	24-May	Moldboard Plow Field Cult.(2x)	7.2	27	110	150 9	82-0-0 6-24-24	preplant planting	Accent 0.67oz/A Exceed 0.88oz/A	None
Hancock Irrigated	E-24.	Plainfield Sand	Cucumber	13-May	Dyna Drive Moldboard Plow Disk	6.3	110	110	200 9	33-0-0 6-24-24	post planting	Saddle 2qts/A Aatrex 4L 0.75qts/A	None
Janesville	E-25.	Plano Silt Loam	Corn	27-Apr	Field Cult. Dyna Drive	6.6	37	180	180 9	28-0-0 6-24-24	preplant planting	Surpass 2qts/A Bladex 2qts/A	Lorsban 7lbs/A
Lancaster	E-26.	Rozetta Silt Loam	Corn	6-May	Chisel Plow Soil finisher	7.1	90	275	200 9	82-0-0 8-32-17	preplant planting	Dual II 2pts/A Banvel 1pt/A	Lorsban 7lbs/A Pounce 6oz/A
West Madison	E-27.	Plano Silt Loam	Corn	20-May	Moldboard Plow Disk(2x)	6.8	105	180	149	28-0-0	preplant	Bladex 4L 2qts/A Lasso 2qts/A	None

**Table E-22. Determining Corn Hybrid Maturity.
Comparison of Sweet Corn Hybrids.
Arlington, WI - 1996.**

Sweet Corn Hybrid	Day of Year	Leaf Development			Plant Height cm
		Leaf Collars	Hail Adjuster's Method	Total Leaves	
Challenger	.	7.5	9.6	10.8	77.7
Delectable	.	7.9	10.0	11.3	79.8
Empire	.	7.4	9.4	10.7	81.3
Excellency	.	8.0	10.2	11.5	79.8
GH 1703	.	8.3	10.2	11.5	84.0
Heritage	.	7.3	9.3	10.6	83.6
How Sweet It Is	.	7.3	9.6	10.8	73.0
Incredible	.	7.5	9.4	10.7	76.4
Jubilee	.	7.5	9.6	10.9	86.3
Miracle	.	8.1	9.9	11.2	79.3
Mystery	.	7.2	9.2	10.1	81.6
SS Jubilee	.	7.5	9.5	10.8	79.3
Sprint	.	7.6	9.6	10.8	78.8
Sugar Buns	.	7.4	9.1	10.2	73.0
Zenith	.	8.1	10.4	11.6	77.3
	170	2.3	3.8	4.8	10.1
	177	4.1	5.9	7.0	21.1
	182	5.4	8.1	9.7	34.2
	193	8.0	11.5	13.5	74.7
	200	10.6	13.2	14.9	110.2
	225	15.6	15.6	15.6	226.1
Challenger	170	2.0	3.3	4.6	8.9
Challenger	177	4.0	5.8	6.8	20.3
Challenger	182	5.3	8.1	9.2	33.0
Challenger	193	7.7	11.4	13.7	73.2
Challenger	200	10.3	13.6	15.2	108.4
Challenger	225	15.6	15.6	15.6	222.7
Delectable	170	3.0	4.0	5.0	10.2
Delectable	177	3.9	5.9	6.9	23.7
Delectable	182	5.2	8.3	10.2	33.9
Delectable	193	8.2	12.1	14.1	74.2
Delectable	200	11.0	13.7	15.1	99.1
Delectable	225	16.2	16.2	16.2	237.9
Empire	170	2.2	3.8	4.8	10.6
Empire	177	4.0	5.8	6.8	20.7
Empire	182	5.2	7.8	9.7	31.3
Empire	193	7.9	10.8	13.0	78.2
Empire	200	10.2	13.3	14.9	111.8
Empire	225	15.9	15.9	15.9	235.4
Excellency	170	2.2	3.8	4.9	8.9
Excellency	177	4.0	6.1	7.2	23.7
Excellency	182	5.7	8.2	9.9	37.3
Excellency	193	8.4	12.0	14.0	66.0
Excellency	200	10.9	14.2	16.1	109.2
Excellency	225	16.8	16.8	16.8	233.7

Table E-22.

**Determining Corn Hybrid Maturity.
Comparison of Sweet Corn Hybrids.
Arlington, WI - 1996.**

Sweet Corn Hybrid	Day of Year	Leaf Development			Plant Height cm
		Leaf Collars	Hail Adjuster's Method	Total Leaves	
GH 1703	170	2.9	4.6	5.9	10.6
GH 1703	177	4.7	6.9	7.9	23.3
GH 1703	182	6.0	9.3	10.7	44.5
GH 1703	193	8.7	11.7	14.2	80.3
GH 1703	200	11.9	13.4	14.9	128.7
GH 1703	225	15.6	15.6	15.6	216.8
Heritage	170	2.1	3.7	4.7	12.7
Heritage	177	3.8	5.9	7.0	23.7
Heritage	182	5.1	7.7	9.2	39.4
Heritage	193	7.7	11.1	13.4	79.3
Heritage	200	10.0	12.6	14.4	110.9
Heritage	225	15.0	15.0	15.0	235.4
How Sweet It Is	170	1.7	3.4	4.4	7.2
How Sweet It Is	177	3.8	5.6	6.4	18.6
How Sweet It Is	182	5.2	7.8	9.3	23.3
How Sweet It Is	193	7.7	11.4	13.7	72.1
How Sweet It Is	200	10.0	13.6	15.2	86.4
How Sweet It Is	225	15.6	15.6	15.6	230.3
Incredible	170	1.8	2.6	3.8	7.6
Incredible	177	4.0	5.8	6.8	16.1
Incredible	182	5.2	7.3	8.8	28.8
Incredible	193	7.7	11.1	13.1	62.0
Incredible	200	10.2	13.3	15.2	110.9
Incredible	225	16.2	16.2	16.2	232.8
Jubilee	170	2.2	3.7	5.0	11.9
Jubilee	177	4.2	5.9	7.1	21.2
Jubilee	182	5.4	8.1	9.7	40.2
Jubilee	193	7.4	11.4	13.3	85.3
Jubilee	200	10.4	13.0	15.1	116.0
Jubilee	225	15.3	15.3	15.3	243.0
Miracle	170	2.4	3.7	4.8	11.0
Miracle	177	4.1	5.8	7.0	19.5
Miracle	182	5.7	8.0	9.7	41.5
Miracle	193	8.7	11.9	14.0	79.3
Miracle	200	11.1	13.6	15.3	114.3
Miracle	225	16.3	16.3	16.3	210.0
Mystery	170	2.0	4.0	4.8	13.1
Mystery	177	3.8	5.6	6.6	27.9
Mystery	182	5.6	8.6	9.7	36.4
Mystery	193	8.0	11.6	12.9	71.1
Mystery	200	10.6	12.2	13.2	121.1
Mystery	225	13.2	13.2	13.2	220.1
SS Jubilee	170	2.2	3.8	4.8	8.9
SS Jubilee	177	4.0	5.6	6.6	21.6
SS Jubilee	182	5.3	7.9	9.7	24.6
SS Jubilee	193	7.8	11.3	13.0	77.2
SS Jubilee	200	9.8	12.7	14.8	110.1
SS Jubilee	225	15.8	15.8	15.8	233.7

**Table E-22. Determining Corn Hybrid Maturity.
Comparison of Sweet Corn Hybrids.
Arlington, WI - 1996.**

Sweet Corn Hybrid	Day of Year	Leaf Development			Plant Height cm
		Leaf Collars	Hail Adjuster's Method	Total Leaves	
Sprint	170	2.7	4.6	5.6	11.4
Sprint	177	4.4	6.3	7.3	21.2
Sprint	182	5.6	8.1	9.9	33.0
Sprint	193	8.2	11.3	13.6	80.3
Sprint	200	11.1	12.9	14.4	106.7
Sprint	225	14.6	14.6	14.6	220.1
Sugar Buns	170	2.6	3.6	4.6	9.3
Sugar Buns	177	4.1	6.1	7.1	19.5
Sugar Buns	182	5.2	8.0	9.6	31.3
Sugar Buns	193	7.7	10.8	12.8	76.2
Sugar Buns	200	10.8	12.1	13.2	114.3
Sugar Buns	225	13.8	13.8	13.8	187.1
Zenith	170	2.2	4.1	4.8	8.5
Zenith	177	4.0	5.9	6.9	16.1
Zenith	182	5.7	8.4	9.8	34.7
Zenith	193	8.2	11.9	14.0	66.0
Zenith	200	11.0	14.6	16.4	105.8
Zenith	225	17.6	17.6	17.6	232.8
Mean		7.6	9.7	10.9	79.4
Probability %					
Hybrid (H)		< 0.1	0.1	< 0.1	0.5
Day of Year (D)		< 0.1	< 0.1	< 0.1	< 0.1
H x D		< 0.1	< 0.1	< 0.1	< 0.1
LSD (0.10)					
Hybrid (H)		0.3	0.5	0.5	5.1
Day of Year (D)		0.1	0.2	0.1	2.5
CV %		7.1	7.1	6.5	9.1

**Table E-23. Determining Corn Hybrid Maturity.
Comparison of Sweet Corn Hybrids.
Fond du Lac, WI - 1996.**

Sweet Corn Hybrid	Day of Year	Leaf Development			Plant Height cm
		Leaf Collars	Hail Adjuster's Method	Total Leaves	
Challenger	.	6.8	8.9	10.6	52.9
Delectable	.	7.2	9.5	11.0	54.6
Empire	.	6.5	8.6	10.4	53.1
Excellency	.	6.8	8.9	10.8	50.9
GH 1703	.	7.8	9.7	11.2	58.5
Heritage	.	6.6	8.8	10.5	52.0
How Sweet It Is	.	6.5	8.8	10.5	45.6
Incredible	.	6.7	8.9	10.8	55.8
Jubilee	.	6.7	8.8	10.6	53.7
Miracle	.	7.4	9.4	11.3	55.2
Mystery	.	6.8	8.7	9.8	56.9
SS Jubilee	.	6.5	8.3	9.9	52.1
Sprint	.	7.4	9.3	10.8	55.7
Sugar Buns	.	6.9	8.6	10.2	52.4
Zenith	.	6.9	9.4	11.2	53.2
	163	0.8	1.0	2.7	5.8
	180	4.4	6.4	7.9	23.9
	189	7.2	10.6	12.6	46.7
	199	10.0	13.1	14.7	79.2
	206	12.1	13.8	15.4	111.9
Challenger	163	0.7	0.7	2.2	5.5
Challenger	180	4.2	6.2	7.6	22.0
Challenger	189	7.1	10.3	12.4	48.3
Challenger	199	10.0	13.2	15.2	80.4
Challenger	206	11.9	14.0	15.8	108.4
Delectable	163	1.0	1.7	3.0	6.4
Delectable	180	4.8	6.9	8.0	23.7
Delectable	189	7.4	11.1	13.1	44.0
Delectable	199	10.6	13.7	15.2	83.8
Delectable	206	12.4	14.0	15.6	115.2
Empire	163	0.9	0.9	2.3	4.7
Empire	180	4.0	6.0	7.6	23.7
Empire	189	7.0	10.2	12.1	44.0
Empire	199	9.4	12.6	14.8	77.1
Empire	206	11.0	13.1	15.4	116.0
Excellency	163	1.0	1.2	2.9	6.4
Excellency	180	4.1	5.8	7.7	23.7
Excellency	189	7.1	10.2	12.2	44.0
Excellency	199	9.8	13.2	15.0	77.1
Excellency	206	11.8	14.2	16.4	103.3
GH 1703	163	1.0	1.8	3.6	7.6
GH 1703	180	5.1	7.2	9.0	26.3
GH 1703	189	7.9	11.4	13.8	49.5
GH 1703	199	11.0	13.6	14.7	88.9
GH 1703	206	14.2	14.7	15.2	120.2

Table E-23.

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

Sweet Corn Hybrid	Day of Year	Leaf Development			Plant Height cm
		Leaf Collars	Hail Adjuster's Method	Total Leaves	
Heritage	163	1.0	1.3	3.1	5.9
Heritage	180	4.0	5.9	7.3	26.3
Heritage	189	7.1	10.7	12.8	42.3
Heritage	199	9.6	12.8	14.6	72.8
Heritage	206	11.3	13.3	14.9	112.6
How Sweet It Is	163	0.2	0.2	2.2	4.2
How Sweet It Is	180	4.1	6.2	7.4	19.5
How Sweet It Is	189	7.1	10.2	11.7	41.5
How Sweet It Is	199	9.6	13.4	15.0	67.7
How Sweet It Is	206	11.3	13.8	16.1	94.8
Incredible	163	0.8	0.8	2.0	5.5
Incredible	180	4.1	6.1	7.7	22.9
Incredible	189	7.1	10.1	12.3	50.0
Incredible	199	9.7	13.4	15.3	83.8
Incredible	206	11.8	13.9	16.4	116.8
Jubilee	163	1.0	1.1	3.0	6.8
Jubilee	180	4.1	6.1	7.8	25.4
Jubilee	189	7.4	10.4	12.7	44.9
Jubilee	199	9.7	13.2	14.3	77.9
Jubilee	206	11.3	13.2	15.0	113.5
Miracle	163	1.0	1.0	3.0	6.8
Miracle	180	4.9	7.1	8.6	27.1
Miracle	189	7.6	11.2	13.2	49.1
Miracle	199	10.7	13.7	15.4	83.0
Miracle	206	12.8	14.2	16.2	110.1
Mystery	163	1.0	1.1	2.7	6.8
Mystery	180	4.1	6.2	7.7	25.4
Mystery	189	6.6	10.4	12.1	50.8
Mystery	199	9.8	12.6	13.4	83.0
Mystery	206	12.7	13.1	13.3	118.5
SS Jubilee	163	0.6	0.6	2.1	5.1
SS Jubilee	180	4.1	5.8	7.1	22.9
SS Jubilee	189	6.9	9.9	12.0	45.3
SS Jubilee	199	9.4	12.3	13.9	74.5
SS Jubilee	206	11.3	12.8	14.2	112.6
Sprint	163	0.9	1.0	3.0	5.9
Sprint	180	5.0	7.0	8.8	25.4
Sprint	189	7.4	11.1	12.8	53.3
Sprint	199	10.3	13.0	14.6	80.4
Sprint	206	13.2	14.2	14.7	113.5
Sugar Buns	163	0.7	0.7	2.6	4.7
Sugar Buns	180	4.2	6.2	7.9	22.0
Sugar Buns	189	7.1	10.6	12.3	46.6
Sugar Buns	199	10.1	12.4	13.9	78.7
Sugar Buns	206	12.3	13.3	14.2	110.1

**Table E-23. Determining Corn Hybrid Maturity.
Comparison of Sweet Corn Hybrids.
Fond du Lac, WI - 1996.**

Sweet Corn Hybrid	Day of Year	Leaf Development			Plant Height cm
		Leaf Collars	Hail Adjuster's Method	Total Leaves	
Zenith	163	0.9	1.1	2.4	5.1
Zenith	180	4.6	6.6	8.3	22.0
Zenith	189	7.2	11.0	12.9	47.4
Zenith	199	9.9	13.7	15.1	78.7
Zenith	206	11.9	14.6	17.4	112.6
Mean	.	6.9	9.0	10.6	53.5
<u>Probability %</u>					
Hybrid (H)		< 0.1	< 0.1	< 0.1	5.1
Day of Year (D)		< 0.1	< 0.1	< 0.1	< 0.1
H x D		< 0.1	0.1	< 0.1	> 50
<u>LSD (0.10)</u>					
Hybrid (H)		0.4	0.4	0.5	5.1
Day of Year (D)		0.1	0.1	0.2	2.1
<u>CV %</u>					
		8.2	6.9	6.5	11.3

**Table E-24. Determining Corn Hybrid Maturity.
Comparison of Sweet Corn Hybrids.
Hancock, WI - 1996.**

Sweet Corn Hybrid	Day of Year	Leaf Development			Plant Height cm
		Leaf Collars	Hail Adjuster's Method	Total Leaves	
Challenger	.	5.9	7.6	8.8	55.5
Delectable	.	6.2	7.9	9.1	59.5
Empire	.	6.0	7.6	8.8	57.6
Excellency	.	6.2	7.9	9.1	55.0
GH 1703	.	6.6	8.4	9.6	61.4
Heritage	.	6.3	7.9	9.0	58.4
How Sweet It Is	.	6.0	7.8	8.8	55.3
Incredible	.	6.0	7.6	8.6	56.8
Jubilee	.	6.3	8.0	9.2	59.5
Miracle	.	6.6	8.4	9.4	55.1
Mystery	.	5.5	7.0	8.2	55.7
SS Jubilee	.	5.7	7.1	8.3	59.8
Sprint	.	6.4	8.4	9.4	57.1
Sugar Buns	.	5.6	6.8	7.9	45.5
Zenith	.	6.2	7.6	8.6	55.5
	154	1.4	2.6	3.6	4.9
	162	2.6	3.7	5.0	9.1
	170	4.4	6.5	7.4	18.0
	177	5.3	7.7	8.9	46.4
	187	7.8	10.8	13.0	59.1
	240	15.2	15.2	15.2	201.6
Challenger	154	1.1	2.0	3.2	5.1
Challenger	162	2.3	3.4	4.9	8.0
Challenger	170	4.3	6.7	7.7	16.1
Challenger	177	5.2	7.7	8.7	46.6
Challenger	187	7.3	10.6	13.1	55.9
Challenger	240	15.2	15.2	15.2	201.5
Delectable	154	1.8	3.1	3.9	5.5
Delectable	162	2.7	3.8	5.1	10.2
Delectable	170	4.4	6.4	7.4	14.8
Delectable	177	5.1	7.3	8.9	51.7
Delectable	187	7.9	11.2	13.7	61.4
Delectable	240	15.6	15.6	15.6	213.4
Empire	154	1.1	2.0	3.1	3.8
Empire	162	2.3	3.0	4.8	8.5
Empire	170	4.3	6.1	7.2	17.4
Empire	177	4.9	7.6	8.8	48.3
Empire	187	7.8	11.1	13.0	54.2
Empire	240	15.8	15.8	15.8	213.4
Excellency	154	1.2	2.4	3.6	4.7
Excellency	162	2.2	3.1	4.8	8.0
Excellency	170	4.3	6.4	7.4	18.6
Excellency	177	4.8	7.0	8.1	44.9
Excellency	187	7.7	11.3	13.7	54.6
Excellency	240	16.8	16.8	16.8	199.0

**Table E-24. Determining Corn Hybrid Maturity.
Comparison of Sweet Corn Hybrids.
Hancock, WI - 1996.**

Sweet Corn Hybrid	Day of Year	Leaf Development			Plant Height cm
		Leaf Collars	Hail Adjuster's Method	Total Leaves	
GH 1703	154	2.0	3.3	4.3	5.9
GH 1703	162	3.0	4.1	6.0	11.0
GH 1703	170	4.8	7.2	8.2	20.3
GH 1703	177	6.0	8.9	10.0	45.7
GH 1703	187	9.0	11.6	13.9	74.5
GH 1703	240	15.0	15.0	15.0	210.8
Heritage	154	1.4	2.4	3.7	5.9
Heritage	162	2.7	4.3	5.0	10.2
Heritage	170	4.7	6.2	7.2	19.1
Heritage	177	5.3	7.9	8.9	46.6
Heritage	187	7.9	11.1	13.7	62.7
Heritage	240	15.7	15.7	15.7	205.7
How Sweet It Is	154	1.1	2.8	3.3	3.8
How Sweet It Is	162	2.3	3.3	4.7	7.6
How Sweet It Is	170	4.1	6.2	7.1	15.2
How Sweet It Is	177	5.3	7.6	8.7	44.9
How Sweet It Is	187	7.4	10.9	13.0	52.5
How Sweet It Is	240	15.8	15.8	15.8	207.4
Incredible	154	1.3	2.4	3.6	4.2
Incredible	162	2.6	3.4	4.7	8.0
Incredible	170	4.0	5.9	6.9	17.8
Incredible	177	5.2	7.7	8.8	43.6
Incredible	187	7.6	10.6	12.4	58.0
Incredible	240	15.4	15.4	15.4	209.1
Jubilee	154	1.6	2.9	3.8	5.1
Jubilee	162	2.9	4.4	5.6	11.0
Jubilee	170	4.7	6.6	7.6	21.6
Jubilee	177	5.7	8.3	9.3	46.6
Jubilee	187	7.7	10.6	13.6	66.9
Jubilee	240	15.1	15.1	15.1	205.7
Miracle	154	1.4	2.6	3.7	5.5
Miracle	162	2.7	4.4	5.6	9.3
Miracle	170	4.9	7.0	8.1	18.6
Miracle	177	6.0	8.7	9.9	44.0
Miracle	187	8.8	11.4	13.4	62.7
Miracle	240	16.0	16.0	16.0	190.5
Mystery	154	1.2	2.1	3.6	5.5
Mystery	162	2.4	3.3	4.9	9.3
Mystery	170	4.3	6.0	7.0	16.1
Mystery	177	5.1	7.7	8.7	46.6
Mystery	187	7.6	10.4	12.3	60.5
Mystery	240	12.4	12.4	12.4	196.4
SS Jubilee	154	1.2	2.1	3.3	5.5
SS Jubilee	162	2.6	3.2	4.8	10.6
SS Jubilee	170	4.0	6.2	7.0	21.6
SS Jubilee	177	5.4	7.4	8.6	46.6
SS Jubilee	187	7.1	9.7	11.9	57.6
SS Jubilee	240	14.9	14.9	14.9	216.8

**Table E-24. Determining Corn Hybrid Maturity.
Comparison of Sweet Corn Hybrids.
Hancock, WI - 1996.**

Sweet Corn Hybrid	Day of Year	Leaf Development			Plant Height cm
		Leaf Collars	Hail Adjuster's Method	Total Leaves	
Sprint	154	2.1	3.9	4.4	4.2
Sprint	162	3.0	4.9	5.8	8.9
Sprint	170	4.8	7.8	8.8	17.4
Sprint	177	5.8	8.2	9.4	48.7
Sprint	187	8.6	11.1	13.6	65.2
Sprint	240	14.3	14.3	14.3	198.1
Sugar Buns	154	1.4	2.3	3.2	4.7
Sugar Buns	162	2.8	3.1	4.6	8.5
Sugar Buns	170	4.6	6.2	7.0	16.1
Sugar Buns	177	4.6	6.8	7.9	47.4
Sugar Buns	187	7.8	9.9	11.9	50.0
Sugar Buns	240	12.7	12.7	12.7	146.5
Zenith	154	0.9	2.1	3.0	3.8
Zenith	162	2.2	2.9	4.3	6.8
Zenith	170	4.4	5.8	6.8	19.5
Zenith	177	5.3	7.4	8.7	44.0
Zenith	187	7.4	10.6	12.4	49.5
Zenith	240	16.6	16.6	16.6	209.1
Mean	.	6.1	7.7	8.8	56.5
Probability %					
Hybrid (H)		1.5	0.6	0.7	0.1
Day of Year (D)		< 0.1	< 0.1	< 0.1	< 0.1
H x D		< 0.1	< 0.1	< 0.1	< 0.1
LSD (0.10)					
Hybrid (H)		0.5	0.6	0.7	4.5
Day of Year (D)		0.1	0.2	0.2	2.9
CV %					
		10.2	10.4	9.4	14.6

**Table E-25. Determining Corn Hybrid Maturity.
Comparison of Sweet Corn Hybrids.
Janesville, WI - 1996.**

Sweet Corn Hybrid	Day of Year	Leaf Development			Plant Height cm
		Leaf Collars	Hail Adjuster's Method	Total Leaves	
Challenger	.	8.2	10.1	11.7	73.3
Delectable	.	7.9	10.0	11.4	77.0
Empire	.	7.8	9.8	11.2	83.9
Excellency	.	8.2	10.2	11.7	79.3
GH 1703	.	8.9	10.3	11.9	80.2
Heritage	.	7.7	9.6	11.0	87.0
How Sweet It Is	.	8.1	10.1	11.5	74.7
Incredible	.	8.1	10.1	11.4	77.1
Jubilee	.	7.5	9.3	10.8	76.3
Miracle	.	8.5	10.3	12.1	74.7
Mystery	.	7.5	9.0	10.2	77.9
SS Jubilee	.	7.6	9.4	10.8	74.7
Sprint	.	8.7	10.2	11.8	80.2
Sugar Buns	.	7.9	9.4	10.7	68.6
Zenith	.	8.3	10.5	12.0	80.7
	182	3.0	4.6	5.6	12.1
	190	5.2	7.2	8.7	31.2
	199	6.9	9.1	11.3	51.7
	206	8.1	10.8	13.1	75.3
	212	10.1	12.6	14.3	103.0
	239	15.1	15.1	15.1	192.9
Challenger	182	3.0	4.7	5.7	14.0
Challenger	190	5.1	7.0	8.7	31.3
Challenger	199	7.2	9.4	11.8	47.4
Challenger	206	8.1	11.4	13.7	72.8
Challenger	212	10.6	12.8	14.7	99.1
Challenger	239	15.4	15.4	15.4	175.3
Delectable	182	3.0	4.6	5.7	12.3
Delectable	190	5.1	7.4	8.8	27.9
Delectable	199	6.7	9.2	11.4	44.9
Delectable	206	8.1	10.9	13.2	72.8
Delectable	212	9.8	12.8	14.4	105.8
Delectable	239	15.0	15.0	15.0	198.1
Empire	182	2.9	4.4	5.4	13.1
Empire	190	4.9	6.8	8.1	30.5
Empire	199	6.8	9.0	11.1	66.0
Empire	206	7.7	10.4	12.9	75.4
Empire	212	8.9	12.3	14.3	110.1
Empire	239	15.6	15.6	15.6	208.3
Excellency	182	2.9	4.3	5.3	12.3
Excellency	190	5.1	6.9	8.4	30.1
Excellency	199	6.8	8.9	11.0	54.2
Excellency	206	8.0	11.0	13.4	80.4
Excellency	212	10.1	13.8	15.4	94.8
Excellency	239	16.4	16.4	16.4	204.1

Table E-25.

**Determining Corn Hybrid Maturity.
Comparison of Sweet Corn Hybrids.
Janesville, WI - 1996.**

Sweet Corn Hybrid	Day of Year	Leaf Development			Plant Height cm
		Leaf Collars	Hail Adjuster's Method	Total Leaves	
GH 1703	182	3.6	5.4	6.4	14.0
GH 1703	190	5.9	8.1	9.8	36.4
GH 1703	199	7.4	9.8	12.3	61.0
GH 1703	206	9.6	11.4	13.7	83.8
GH 1703	212	11.9	12.1	14.2	110.1
GH 1703	239	14.8	14.8	14.8	176.1
Heritage	182	2.9	4.4	5.4	14.4
Heritage	190	4.9	6.8	8.4	38.5
Heritage	199	6.4	8.8	10.6	50.0
Heritage	206	7.4	10.1	12.4	72.0
Heritage	212	9.3	12.1	13.9	133.8
Heritage	239	15.1	15.1	15.1	213.4
How Sweet It Is	182	2.9	4.6	5.6	10.2
How Sweet It Is	190	5.2	7.3	8.7	24.6
How Sweet It Is	199	7.0	9.2	11.3	47.4
How Sweet It Is	206	7.9	11.2	13.4	70.3
How Sweet It Is	212	10.0	12.9	14.3	92.3
How Sweet It Is	239	15.6	15.6	15.6	203.2
Incredible	182	2.8	4.1	5.1	10.2
Incredible	190	4.8	6.9	8.3	27.9
Incredible	199	6.8	8.9	10.9	53.3
Incredible	206	7.8	10.7	13.2	71.1
Incredible	212	9.9	13.0	14.3	99.9
Incredible	239	16.8	16.8	16.8	199.8
Jubilee	182	2.8	4.2	5.2	11.4
Jubilee	190	4.8	6.9	8.3	30.5
Jubilee	199	6.3	8.6	10.4	48.3
Jubilee	206	7.3	10.1	12.6	70.3
Jubilee	212	8.4	11.0	12.9	103.3
Jubilee	239	15.2	15.2	15.2	193.9
Miracle	182	3.0	5.0	6.1	11.9
Miracle	190	5.7	7.9	9.7	30.5
Miracle	199	7.4	9.7	12.1	50.0
Miracle	206	8.6	11.1	13.8	75.4
Miracle	212	10.9	12.7	15.0	100.8
Miracle	239	15.7	15.7	15.7	179.5
Mystery	182	3.0	4.4	5.4	13.1
Mystery	190	4.9	7.0	8.4	34.3
Mystery	199	6.4	8.9	11.2	49.1
Mystery	206	8.1	10.1	11.8	83.0
Mystery	212	11.2	12.1	12.4	105.8
Mystery	239	11.9	11.9	11.9	182.0
SS Jubilee	182	2.7	3.8	4.7	11.4
SS Jubilee	190	4.7	6.7	7.9	29.2
SS Jubilee	199	6.6	8.6	10.7	43.2
SS Jubilee	206	7.3	9.7	12.1	71.1
SS Jubilee	212	8.7	12.1	14.2	89.8
SS Jubilee	239	15.4	15.4	15.4	203.2

**Table E-25. Determining Corn Hybrid Maturity.
Comparison of Sweet Corn Hybrids.
Janesville, WI - 1996.**

Sweet Corn Hybrid	Day of Year	Leaf Development			Plant Height cm
		Leaf Collars	Hail Adjuster's Method	Total Leaves	
Sprint	182	3.8	5.4	6.4	11.9
Sprint	190	5.8	7.8	9.2	38.1
Sprint	199	7.6	9.7	12.0	59.3
Sprint	206	8.8	11.2	13.7	76.2
Sprint	212	11.0	12.2	14.2	107.5
Sprint	239	15.0	15.0	15.0	188.0
Sugar Buns	182	3.0	4.3	5.4	10.2
Sugar Buns	190	5.4	7.6	9.1	29.6
Sugar Buns	199	6.8	8.9	11.2	45.7
Sugar Buns	206	8.9	10.7	12.2	71.1
Sugar Buns	212	10.7	12.4	13.9	94.8
Sugar Buns	239	12.3	12.3	12.3	160.0
Zenith	182	2.9	4.4	5.4	11.0
Zenith	190	5.0	7.1	8.8	28.8
Zenith	199	7.3	9.7	12.0	55.0
Zenith	206	8.3	11.3	14.1	83.8
Zenith	212	10.1	13.9	15.6	97.4
Zenith	239	16.3	16.3	16.3	208.3
Mean	.	8.1	9.9	11.3	77.7
<u>Probability %</u>					
Hybrid (H)		< 0.1	< 0.1	< 0.1	9.1
Day of Year (D)		< 0.1	< 0.1	< 0.1	< 0.1
H x D		< 0.1	< 0.1	< 0.1	< 0.1
<u>LSD (0.10)</u>					
Hybrid (H)		0.4	0.5	0.6	8.1
Day of Year (D)		0.2	0.2	0.2	3.2
<u>CV %</u>					
		8.6	8.7	8.5	11.8

**Table E-26. Determining Corn Hybrid Maturity.
Comparison of Sweet Corn Hybrids.
Lancaster, WI - 1996.**

Sweet Corn Hybrid	Day of Year	Leaf Development			Plant Height cm
		Leaf Collars	Hail Adjuster's Method	Total Leaves	
Challenger	.	7.0	8.4	9.6	66.5
Delectable	.	7.1	8.1	9.4	69.4
Empire	.	7.2	8.6	9.9	71.8
Excellency	.	7.6	8.9	10.2	73.2
GH 1703	.	6.7	8.0	10.0	72.6
Heritage	.	7.2	8.5	9.8	79.5
How Sweet It Is	.	7.2	8.6	9.7	70.4
Incredible	.	6.7	8.1	9.4	75.4
Jubilee	.	6.8	8.1	9.3	77.8
Miracle	.	7.4	8.7	10.0	71.6
Mystery	.	6.8	8.1	9.0	73.9
SS Jubilee	.	7.2	8.5	9.8	75.4
Sprint	.	6.8	8.1	9.3	79.5
Sugar Buns	.	6.6	7.7	8.7	66.0
Zenith	.	7.7	9.0	10.3	74.0
	165	1.9	2.9	3.9	7.3
	173	3.1	4.7	5.9	17.6
	179	5.1	7.4	8.7	34.3
	197	10.3	11.7	14.4	102.6
	220	15.6	15.6	15.6	203.9
Challenger	165	1.7	2.6	3.7	5.9
Challenger	173	2.8	4.7	5.8	14.0
Challenger	179	5.0	7.0	8.0	33.9
Challenger	197	10.0	12.1	14.8	85.5
Challenger	220	15.6	15.6	15.6	193.0
Delectable	165	1.8	2.8	3.8	6.8
Delectable	173	3.3	4.4	5.7	16.1
Delectable	179	4.9	6.6	7.6	33.0
Delectable	197	9.7	11.1	14.0	93.1
Delectable	220	15.8	15.8	15.8	198.1
Empire	165	1.8	2.8	3.8	7.2
Empire	173	2.9	4.9	5.9	13.1
Empire	179	5.0	7.1	8.2	33.0
Empire	197	9.9	11.7	14.9	90.6
Empire	220	16.7	16.7	16.7	215.1
Excellency	165	2.0	3.0	4.0	7.2
Excellency	173	3.4	4.8	6.1	14.8
Excellency	179	5.3	7.7	8.9	34.7
Excellency	197	10.8	12.2	15.3	104.1
Excellency	220	16.7	16.7	16.7	204.9
GH 1703	165	2.3	3.3	4.3	8.9
GH 1703	173	3.4	4.7	6.1	16.5
GH 1703	179	5.4	8.0	12.6	40.6
GH 1703	197	10.7	11.6	14.2	101.6
GH 1703	220	14.3	14.3	14.3	195.6

**Table E-26. Determining Corn Hybrid Maturity.
Comparison of Sweet Corn Hybrids.
Lancaster, WI - 1996.**

Sweet Corn Hybrid	Day of Year	Leaf Development			Plant Height cm
		Leaf Collars	Hail Adjuster's Method	Total Leaves	
Heritage	165	2.1	3.1	4.1	8.9
Heritage	173	3.1	4.7	5.8	15.2
Heritage	179	5.1	7.6	8.8	37.3
Heritage	197	10.1	11.6	14.6	115.2
Heritage	220	15.8	15.8	15.8	221.0
How Sweet It Is	165	1.9	3.0	4.0	6.4
How Sweet It Is	173	3.1	4.8	5.9	14.8
How Sweet It Is	179	5.1	7.7	8.7	29.6
How Sweet It Is	197	10.4	12.2	14.7	94.8
How Sweet It Is	220	15.3	15.3	15.3	206.6
Incredible	165	1.7	2.7	3.7	6.4
Incredible	173	3.1	4.7	5.9	14.0
Incredible	179	4.9	7.3	8.3	33.0
Incredible	197	10.6	11.9	15.0	104.1
Incredible	220	16.5	16.5	16.5	219.3
Jubilee	165	1.9	2.9	3.9	8.5
Jubilee	173	3.0	4.6	5.8	14.8
Jubilee	179	4.9	7.2	8.2	38.1
Jubilee	197	9.8	11.1	14.1	110.1
Jubilee	220	15.4	15.4	15.4	217.6
Miracle	165	2.1	3.1	4.1	8.9
Miracle	173	3.3	4.9	6.1	13.1
Miracle	179	5.3	7.6	8.8	37.3
Miracle	197	10.8	12.2	15.0	109.2
Miracle	220	16.5	16.5	16.5	189.7
Mystery	165	2.0	3.1	4.0	8.9
Mystery	173	2.9	4.6	5.8	15.2
Mystery	179	5.0	7.3	8.7	38.1
Mystery	197	10.7	11.9	13.0	112.6
Mystery	220	13.4	13.4	13.4	194.7
SS Jubilee	165	1.7	2.7	3.7	6.8
SS Jubilee	173	2.9	4.9	5.7	11.9
SS Jubilee	179	4.9	7.3	8.4	32.2
SS Jubilee	197	10.1	11.4	14.9	105.0
SS Jubilee	220	16.2	16.2	16.2	221.0
Sprint	165	2.3	3.3	4.3	7.2
Sprint	173	3.2	4.9	6.1	66.0
Sprint	179	5.3	7.8	9.1	34.7
Sprint	197	10.7	11.6	14.0	109.2
Sprint	220	14.1	14.1	14.1	180.3
Sugar Buns	165	1.9	2.9	3.9	5.1
Sugar Buns	173	3.0	4.7	5.7	12.3
Sugar Buns	179	4.9	7.0	8.0	28.8
Sugar Buns	197	10.4	11.0	12.8	99.9
Sugar Buns	220	13.6	13.6	13.6	183.7

**Table E-26. Determining Corn Hybrid Maturity.
Comparison of Sweet Corn Hybrids.
Lancaster, WI - 1996.**

Sweet Corn Hybrid	Day of Year	Leaf Development			Plant Height cm
		Leaf Collars	Hail Adjuster's Method	Total Leaves	
Zenith	165	1.9	2.8	3.8	6.8
Zenith	173	3.1	4.7	5.9	11.9
Zenith	179	5.2	7.7	8.8	30.5
Zenith	197	10.4	12.4	15.3	103.3
Zenith	220	17.7	17.7	17.7	217.6
Mean	.	7.1	8.4	9.6	73.1
<u>Probability %</u>					
Hybrid (H)		< 0.1	0.1	2.1	2.9
Day of Year (D)		< 0.1	< 0.1	< 0.1	< 0.1
H x D		< 0.1	< 0.1	< 0.1	3.3
<u>LSD (0.10)</u>					
Hybrid (H)		0.3	0.4	0.7	6.5
Day of Year (D)		0.1	0.2	0.3	4.8
<u>CV %</u>					
		7.9	8.4	14.4	18.9

**Table E-27. Determining Corn Hybrid Maturity.
Comparison of Sweet Corn Hybrids.
West Madison, WI - 1996.**

Sweet Corn Hybrid	Day of Year	Leaf Development			Plant Height cm
		Leaf Collars	Hail Adjuster's Method	Total Leaves	
Challenger	.	6.6	8.2	9.6	72.1
Delectable	.	6.9	8.6	9.9	74.2
Empire	.	6.2	7.7	9.1	72.3
Excellency	.	6.8	8.6	10.1	74.7
GH 1703	.	6.9	8.4	9.9	78.1
Heritage	.	6.2	8.1	9.5	75.9
How Sweet It Is	.	6.2	7.9	9.2	67.0
Incredible	.	6.6	8.1	9.5	72.9
Jubilee	.	6.6	8.4	9.7	77.3
Miracle	.	6.6	8.0	9.6	71.8
Mystery	.	5.9	7.5	8.8	71.1
SS Jubilee	.	6.2	7.8	9.2	75.9
Sprint	.	6.6	8.1	9.6	76.1
Sugar Buns	.	5.9	7.4	8.6	66.6
Zenith	.	6.9	8.8	10.2	75.0
	164	1.0	1.6	3.2	4.7
	172	3.2	4.9	6.0	15.8
	179	4.6	6.7	7.8	30.8
	188	6.6	9.6	12.1	70.4
	196	9.0	11.5	13.5	100.0
	219	14.4	14.4	14.4	218.7
Challenger	164	0.8	0.8	2.8	4.2
Challenger	172	3.1	5.0	6.0	15.2
Challenger	179	4.8	6.7	7.8	31.3
Challenger	188	6.7	9.8	12.1	68.6
Challenger	196	8.9	12.0	13.9	95.7
Challenger	219	15.1	15.1	15.1	217.6
Delectable	164	1.2	2.2	3.2	5.1
Delectable	172	3.3	5.1	6.1	16.9
Delectable	179	4.9	7.0	8.1	30.5
Delectable	188	6.8	9.8	12.7	66.9
Delectable	196	9.4	11.9	13.9	95.7
Delectable	219	15.4	15.4	15.4	230.3
Empire	164	0.8	1.0	2.8	4.2
Empire	172	3.0	4.4	5.4	16.5
Empire	179	4.3	6.2	7.3	23.7
Empire	188	6.2	9.0	11.1	68.6
Empire	196	8.4	11.1	13.3	92.3
Empire	219	14.6	14.6	14.6	228.6
Excellency	164	1.0	2.0	3.3	5.9
Excellency	172	2.9	5.0	6.0	15.7
Excellency	179	4.7	6.8	8.0	31.3
Excellency	188	6.9	9.8	12.3	72.8
Excellency	196	9.1	11.8	14.3	96.5
Excellency	219	16.3	16.3	16.3	226.1

Table E-27.

**Determining Corn Hybrid Maturity.
Comparison of Sweet Corn Hybrids.
West Madison, WI - 1996.**

Sweet Corn Hybrid	Day of Year	Leaf Development			Plant Height cm
		Leaf Collars	Hail Adjuster's Method	Total Leaves	
GH 1703	164	1.7	2.8	3.9	5.5
GH 1703	172	4.6	5.8	7.0	19.5
GH 1703	179	4.6	6.9	8.0	32.2
GH 1703	188	7.0	10.0	12.7	82.1
GH 1703	196	9.7	11.1	13.4	116.0
GH 1703	219	14.1	14.1	14.1	213.4
Heritage	164	1.0	1.4	3.8	4.2
Heritage	172	2.9	4.8	5.8	14.8
Heritage	179	4.4	6.8	7.8	32.2
Heritage	188	6.6	9.9	12.4	72.8
Heritage	196	8.9	11.8	13.3	100.8
Heritage	219	13.7	13.7	13.7	230.3
How Sweet It Is	164	0.7	1.6	2.9	4.2
How Sweet It Is	172	3.2	5.2	6.2	12.3
How Sweet It Is	179	4.3	6.4	7.4	30.5
How Sweet It Is	188	6.0	9.0	11.6	57.6
How Sweet It Is	196	8.4	11.1	13.0	72.0
How Sweet It Is	219	14.3	14.3	14.3	225.2
Incredible	164	0.6	1.0	2.6	3.8
Incredible	172	2.9	4.4	5.4	12.7
Incredible	179	4.6	6.6	7.4	30.5
Incredible	188	6.8	9.6	12.2	64.4
Incredible	196	9.1	11.4	13.8	97.4
Incredible	219	15.4	15.4	15.4	228.6
Jubilee	164	0.8	1.9	3.2	5.1
Jubilee	172	3.4	5.1	6.1	17.8
Jubilee	179	4.4	6.7	7.9	34.7
Jubilee	188	6.9	10.1	12.8	72.0
Jubilee	196	9.6	12.2	13.9	106.7
Jubilee	219	14.4	14.4	14.4	227.8
Miracle	164	1.0	1.0	3.2	5.1
Miracle	172	3.0	4.9	5.9	14.4
Miracle	179	5.0	6.8	8.1	30.5
Miracle	188	7.1	9.7	12.4	68.6
Miracle	196	9.0	11.2	13.3	119.4
Miracle	219	14.4	14.4	14.4	193.0
Mystery	164	0.8	1.2	2.8	4.7
Mystery	172	3.0	4.7	5.8	15.7
Mystery	179	4.4	6.7	7.9	24.6
Mystery	188	6.2	9.7	11.9	73.7
Mystery	196	8.8	10.7	12.3	101.6
Mystery	219	12.0	12.0	12.0	206.6
SS Jubilee	164	1.0	1.7	2.9	4.7
SS Jubilee	172	3.0	4.9	6.0	17.8
SS Jubilee	179	4.3	6.2	7.4	34.7
SS Jubilee	188	6.3	9.2	11.7	71.1
SS Jubilee	196	8.4	11.1	13.6	100.8
SS Jubilee	219	13.8	13.8	13.8	226.1

**Table E-27. Determining Corn Hybrid Maturity.
Comparison of Sweet Corn Hybrids.
West Madison, WI - 1996.**

Sweet Corn Hybrid	Day of Year	Leaf Development			Plant Height cm
		Leaf Collars	Hail Adjuster's Method	Total Leaves	
Sprint	164	1.1	1.4	3.7	5.5
Sprint	172	3.1	5.0	6.1	16.1
Sprint	179	4.8	7.1	8.2	32.2
Sprint	188	7.1	9.9	12.4	79.6
Sprint	196	9.6	11.2	13.3	110.1
Sprint	219	13.7	13.7	13.7	213.4
Sugar Buns	164	1.0	1.3	3.0	4.7
Sugar Buns	172	3.4	4.8	5.9	15.7
Sugar Buns	179	4.4	6.7	7.7	27.9
Sugar Buns	188	6.2	8.8	11.0	67.7
Sugar Buns	196	8.7	10.7	12.2	99.1
Sugar Buns	219	12.5	12.5	12.5	184.6
Zenith	164	1.1	2.1	3.2	4.2
Zenith	172	3.0	4.9	5.9	15.7
Zenith	179	4.9	7.0	8.1	34.7
Zenith	188	6.8	10.0	12.2	69.4
Zenith	196	9.2	12.4	15.0	96.5
Zenith	219	16.6	16.6	16.6	229.5
Mean		6.5	8.1	9.5	73.4
Probability %					
Hybrid (H)		< 0.1	0.6	< 0.1	5.0
Day of Year (D)		< 0.1	< 0.1	< 0.1	< 0.1
H x D		< 0.1	< 0.1	< 0.1	< 0.1
LSD (0.10)					
Hybrid (H)		0.4	0.6	0.5	5.7
Day of Year (D)		0.1	0.2	0.1	3.2
CV %					
		8.1	7.5	6.5	12.4