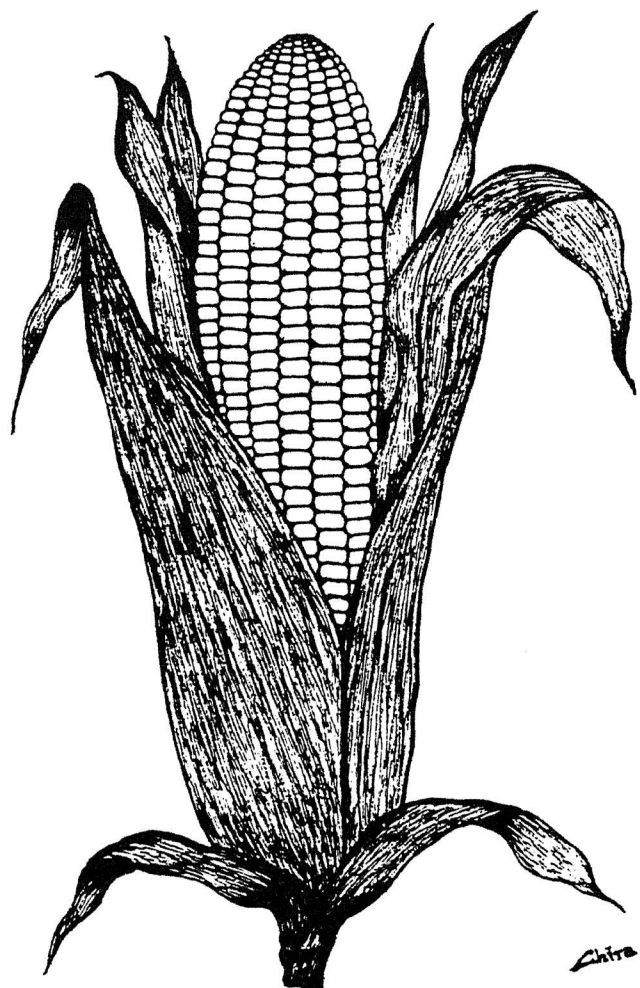


Report of the  
**INTER-REGIONAL  
MAIZE INBRED EVALUATION**

L. L. Darrah, USDA-ARS  
January 1985



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## COOPERATING INSTITUTIONS

United States Department of Agriculture, Agricultural Research Service

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Ohio  
South Dakota  
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Southern Region: Alabama  
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Illinois Foundation Seeds, Inc.  
Northrup, King & Co.

The front cover sketch was done by Chirayus Laohawanich who received her M.Sc. in corn breeding from the University of Missouri in 1982. We thank Laurie Deane for assistance with inputting the data.

## FORWARD

The North Central Corn Breeding Committee truly exemplifies the sharing of research efforts between the public and private industries. Today's farmers are searching for a means of survival, i.e., more efficient crop production, improved maize crop productivity, and better marketability of the final product. Improved standability, more rapid drydown, and insect and disease resistance helps the farmer solve some of his problems. This committee cooperates with maize scientists of other regions, the Agricultural Research Service, USDA, and private industry. The input of scientists of other disciplines is a very important adjunct.

I wholeheartedly endorse this regional publication, Report of the Inter-regional Maize Inbred Evaluation. The Inbred Line Evaluation Committee is to be commended for their effort and results as outlined in this manuscript.

Warren W. Sahs  
Administrative Advisor, NCR-2  
University of Nebraska Agricultural Research Division

## INTRODUCTION

The Inter-regional Maize Inbred Evaluation (IRMIE) was sponsored by the North Central Corn Breeding Research Committee (NCR-2), Northeastern Corn Improvement Conference (NEC-29), and Southern Corn Improvement Conference (SCIC). The evaluation compares agronomic performance and disease and insect responses of important public maize inbred lines in five AES maturity groups: 100-300, 400-600, 700-800, 900-1000, and 1100-1200.

The evaluation was initially planned for 1981, but poor seed production conditions in 1980 contributed to a limited number of entries in some of the maturity groupings. Seed distributed in January 1981 was heldover following a postponement decision at the 1981 NCR-2 meeting. Additional entries were received and distributed for growing in 1982.

Table I lists the entries in the five maturity groups with the check entries marked with an asterisk. Table II summarizes the tables for each maturity grouping. For each maturity grouping, the agronomic data are presented first, then the data for disease susceptibility, followed by insect susceptibility data, and lastly data on trifluralin tolerance. To locate specific information, find the maturity group of the inbred in question and then locate the appropriate table number in Table II for the desired character. Cooperators contributing to a given maturity evaluation are listed at the beginning of each maturity group's data. A brief description of the data collected and statistical analysis follows on page 6.

Submitted by the inter-regional committee on inbred line evaluation.

L. F. Bauman, NCR-2  
C. E. Manchester, NEC-29  
W. A. Russell, NCR-2  
G. E. Scott, SCIC  
L. L. Darrach, NCR-2, Chairman

Table I. Inbreds and maturity groups in the inter-regional maize evaluation.

Number	100-300	400-600	700-800	900-1000	1100-1200
1	CM105 *	A619 *	B73 *	CI66 *	SC76 *
2	CO109 *	A632 *	Mo17 *	FR802W *	SC213 *
3	A661	B85	N28Ht *	FR805W *	T232 *
4	A665	A634	B68	Ga209	GT112RF
5	A666	A635	B75	Mo17	NC246
6	A671	A659	B76	T145	NC248
7	ND100	A670	B77	T147	SC12
8	ND240	Mo42	B79	T151	SC43
9	ND241	AY499	B84	T153	SC55
10	ND245	NY562	Mo14W	T155	Mp496
11	ND246	NY378	Mo20W	T159	Tx601
12	ND300	NY821LERF	Mo40	T250	
13	ND301	NYD410	Mo42	T254	
14	ND376	NYRW3	N132	T256	
15	ND408	NYRW20	N139	T258	
16	ND474	NYRW23	N152	Ar258	
17	Pa326	Pa405	Oh509A	Ar262	
18	Pa329	FR19	Oh514	Ar266	
19	Pa373	CH9	Pa91	Tx29A	
20	Pa374	CH581-13	Pa762	Tx61M	
21	CK52	CH586-12	Pa871	Tx403	
22	CK64	CH591-36	Pa872	Tx5855	
23	CK69	CH592-46	FR16	Tx6252	
24	CK75	CH593-9	FR20		
25	CG11	CH606-11	FR21		
26	CG12	CH663-8	H60		
27	CG13	B87	H84		
28	CG14	Ms71	H93		
29	CG15	Ms75	H98		
30	CG16	Ms76	H100		
31	CG17	Ms200	H102		
32	CG18	H95	H103		
33	CL1	H99			
34	Ms72	W64A *			
35	Ms74	W548			
36	W117Ht *	W552C			
37		W562			
38		W570			
39		CH753-4			
40		CH671-28			

Table II. Data table numbers by maturity group and character.

Character	Maturity group				
	100-300	400-600	700-800	900-1000	1100-1200
Agronomic characters:					
Yield	1	24	47	70	90
Stand	2	25	48	71	91
Root lodging	3	26	49	72	92
Stalk lodging	4	27	50	73	93
Usable ears	5	28	51	74	94
Plant height	6	29	52	75	95
Ear height	7	30	53	76	96
Moisture	8	31	54	77	97
Days-to-tassel	9	32	55	78	98
Days-to-silk	10	33	56	79	99
Ear row number	11	34	57	80	100
Ear length	12	35	58	81	101
Ear diameter	13	36	59	82	102
300-kernel weight	14	37	60	83	103
Stalk crushing strength	15	38	61	84	104
Disease reactions:					
Bacterial wilts	16	39	62	85	105
Ear rots	17	40	63	--	---
Fungal leaf diseases and rust	18	41	64	86	106
Smuts	19	42	65	87	107
Stalk rots	20	43	66	--	---
Viruses	21	44	67	88	108
Insect reactions	22	45	68	89	109
Trifluralin tolerance	23	46	69	--	---

## DATA COLLECTED

### Agronomic Characters

#### Yield

Twenty competitive plants per plot were harvested and dried to a uniform moisture. Plot weights were adjusted to 15.5 percent moisture and converted to quintals per hectare (q/ha).

#### Stand

The number of counted plants per plot was expressed as a percent of the number that represented 100 percent stand.

#### Root lodging

Plants that lean more than 30 degrees from vertical were counted and expressed as a percent of the counted stand.

#### Stalk lodging

Plants that were broken over or off at or below the ear bearing node were counted and expressed as a percent of the counted stand.

#### Usable ears

The number of usable ears was expressed as a percent of the 20 plants harvested for yield.

#### Plant height

Heights of 10 random competitive plants per plot were measured in centimeters from the ground to the top leaf collar and the mean calculated.

#### Ear height

Heights of 10 random competitive plants per plot were measured in centimeters from the ground to the top ear node and the mean calculated.

#### Moisture

Grain weights at harvest and after drying were used to determine grain moisture at harvest. However, at some locations it is possible that grain moistures reported were obtained using a moisture meter either at harvest or after drying.

#### Days-to-tassel

The number of days from planting to 50 percent anthesis was reported.

#### Days-to-silk

The number of days from planting to 50 percent silk emergence was reported.

#### Ear row number

The number of kernel rows on 10 random top ears were counted and the mean calculated.

#### Ear length

The lengths of 10 random top ears were measured in centimeters and the mean calculated.

#### Ear diameter

The diameters of 10 random top ears were measured in centimeters and the mean calculated.

#### 300-kernel weight

After shelling, 300 random kernels were counted and weighed in grams.

#### Stalk crushing strength

Stalk sections from 10 competitive plants were obtained and crushed vertically using an automated hydraulic press. The mean force required to crush the sections is expressed in load-kilograms.

### Disease Reactions

Various rating scales were used for evaluating disease and insect reactions. In these, a rating of 0 or 1 represented a resistant plant and 5 or 9 represented susceptibility.

#### Bacterial wilts

Stewart's wilt (Erwinia stewartii) was rated on a 1 to 5 scale.

Goss' wilt (Corynebacterium nebraskense) was rated on a 1 to 9 scale.

#### Ear rots

Fusarium ear rot (Fusarium moniliforme) was rated on a 1 to 9 scale.

Gibberella ear rot (Gibberella zeae) was rated on a 0 to 5 scale.

#### Fungal leaf diseases

Eyespot (Kabatiella zeae) was rated on a 1 to 5 scale.

Northern leaf spot (Helminthosporium carbonum) was rated on a 1 to 5 scale.

Southern leaf blight (H. maydis) was rated on a 1 to 5 scale. The percent leaf area affected was estimated for two dates.

Northern leaf blight (H. turcicum) was rated on 1 to 5 and 0 to 5 scales at different locations. The percent of leaf area affected was estimated for race 1 and race 2 for a single date.

Southern leaf rust (Puccinia polysora) was rated on a 0 to 9 scale.

#### Smuts

Common smut (Ustilago maydis) was reported as percent infected plants.

Head smut (Sphacelotheca reiliana) was reported as percent infected plants.

#### Stalk rots

Anthracnose stalk rot (Colletotrichum graminicola) was rated on a 1 to 5 scale. In addition, the number of internodes infected and the number of internodes with greater than 50 percent infection were reported.

Diplodia stalk rot (Diplodia maydis) was rated on a 1 to 5 scale.

Stalk rot per se was reported as percent infected plants.

#### Viruses

Maize chlorotic dwarf virus (MCDV) was reported as percent infected plants.

Maize dwarf mosaic virus (MDMV) was reported as percent infected plants. In addition, a rating scale of 1 to 5 was used at some locations.

Corn lethal necrosis (CLN) was rated on a 1 to 9 scale.

Virus severity was rated on a 1 to 5 scale.

#### Insect Reactions

First and second generation European corn borer (ECB, Ostrinia nubilalis) damage was rated on a 1 to 9 scale.

Corn ear worm (CEW, Heliothis zea) damage was determined by measuring the depth of penetration into the ear in centimeters.

Fall armyworm (FAW, Spodoptera frugiperda) damage was rated on a scale of 0 to 9.

Southwestern corn borer (SWCB, Diatraea grandiosella) damage was rated on a scale of 1 to 9.

#### Trifluralin Tolerance

Trifluralin tolerance was rated on an open-ended index where 0 was the lowest rating and high values represent greater tolerance.

### STATISTICAL ANALYSES

Three replications of a randomized complete block design were grown, although some locations, for some variables, used one or two replications. Four replications were used for fall armyworm evaluation. Where the number of replications differed from three, a footnote indicates what was used.

Many plots were missing because of poor stands. No missing-plot calculation or averaging of the remaining replications was done. Where plots were missing, that is indicated by a footnote. Occasionally, an entry was missing in all replications and that is indicated by a "." in the body of the table.

Analyses were completed using the General Linear Models procedure of the Statistical Analysis System (SAS Institute, Inc., P. O. Box 10066, Raleigh, NC 27605). That procedure correctly calculates means and sums of squares for



unbalanced data. The least significant difference at  $P=0.05$  (LSD 0.05) and coefficient of variation percentage (CV%) were calculated in the usual manner for each character at each location. Analysis of the combined data assumed that environments were random effects and the LSD 0.05 and CV% were calculated using the genotype-by-environment mean square.

Inbred lines which had very low stands were not discarded because the information that was obtained may be useful. Certainly, in such cases, yield, lodging, usable ears, and the ear characteristic data are to be viewed with much caution. It was also assumed, unless otherwise noted, that cooperators followed the distributed protocol for obtaining data as described in the **DATA COLLECTED** section.

**COOPERATORS CONTRIBUTING TO THE 100-300 MATURITY EVALUATION:**  
(In order of character presentation in the tables)

Cooperator	Site code	Organization and location	Characters
Rossman	MI	Michigan State Univ., East Lansing	Agronomic
Geadelmann	MN	Univ. of Minnesota, St. Paul	Agronomic
Darraha	MO	USDA/Univ. of Missouri, Columbia	Agronomic
Cross	ND	North Dakota State Univ., Fargo	Agronomic
Kannenbergh	CANGUE	Univ. of Guelph, Guelph, Ontario	Agronomic
Hamilton	CANBDN	Agric. Canada, Brandon, Manitoba	Agronomic
Hudon	CANSTJ	Agric. Canada, St-Jean-sur-Richelieu, Quebec	Agronomic
Politowski	MO	Pfizer Genetics, St. Louis	Stewart's wilt
Trainor	IL	Northrup, King & Co., St. Joseph	Stewart's wilt
Turner	NE	Funk Seeds International, Clearwater	Goss' wilt
Trainor	MN	Northrup, King & Co., Eden Prairie	Fusarium ear rot
Hart and Rossman	MI	Michigan State Univ., East Lansing	Gibberella ear rot
Hudon	CANSTJ	Agric. Canada, St-Jean-sur-Richelieu, Quebec	Eyespot
Hart and Rossman	MI	Michigan State Univ., East Lansing	Eyespot
White	IL	Univ. of Illinois, Urbana	North. leaf spot
Hart and Rossman	MI	Michigan State Univ., East Lansing	South. leaf blight
Hudon	CANSTJ	Agric. Canada, St-Jean-sur-Richelieu, Quebec	North. leaf blight
Hudon	CANSTJ	Agric. Canada, St-Jean-sur-Richelieu, Quebec	Common smut
Bockholt and Frederiksen	TX	Texas A&M Univ., Halfway	Head smut
Hart and Rossman	MI	Michigan State Univ., East Lansing	Anthracnose stalk rot
Trainor	WI	Northrup, King & Co., Glen Haven	Anthracnose stalk rot
White	IL	Univ. of Illinois	Anthracnose stalk rot
Hudon	CANSTJ	Agric. Canada, St-Jean-sur-Richelieu, Quebec	Diplodia stalk rot
Hudon	CANSTJ	Agric. Canada, St-Jean-sur-Richelieu, Quebec	Stalk rot
Findley and Louie	OH	USDA/OARDC, Wooster	MCDV
			MDMV
			Virus rating
Turner	KS	Funk Seeds International, Norton	CLN
Guthrie	IA	USDA	European corn borer
Penner, Roggenbuck, and Rossman	MI	Michigan State Univ., East Lansing	Trifluralin tolerance

Table 1. Yield (q/ha) evaluation of the 100-300 maturity inbred lines.

Entry	No.	MI	MN	ND	CANGUE	CANBDN	CANSTJ	Mean
CM105 *	1	21.8	41.2	6.6	15.0	6.0	31.7	20.4
CO109 *	2	18.1	46.6	20.4	9.0	9.4	18.0	20.3
A661	3	33.1	47.7	16.0	13.5	16.9	28.8	26.0
A665	4	32.8	42.7	12.8	6.4	3.2	17.4	19.2
A666	5	38.7	58.8	21.6	24.1	10.2	28.9+	30.5
A671	6	29.7	44.2	14.1	9.1	0.2	21.7	19.9
ND100	7	25.9	34.8	10.9	15.0	12.3	13.4	18.7
ND240	8	24.0	39.2	20.5	12.4	4.9	8.3+	18.8
ND241	9	18.7	31.5	19.4	6.8	8.4	16.8	16.9
ND245	10	21.7	32.8	11.5	10.1	9.4	24.4	18.3
ND246	11	23.9	36.8	14.3	11.8	11.7	26.3	20.8
ND300	12	25.3	42.8	14.8	7.9	3.5	10.5+	17.9
ND301	13	36.0	46.4	16.4	13.7	10.5	25.3	24.7
ND376	14	28.0	35.0	10.7	6.4	0.8+	13.3	16.6
ND408	15	23.2	28.1	19.7	5.0	2.6	8.4	14.5
ND474	16	22.3	40.0	23.8	5.2++	3.0	15.8	20.0
Pa326	17	33.0	42.2	14.6	19.9+	10.5	27.5	24.9
Pa329	18	41.8	50.8	18.6	11.3	1.0+	7.7+	24.1
Pa373	19	25.3	.	.	.	.	.	25.3
Pa374	20	41.9	.	.	.	3.3++	.	32.3
CK52	21	18.9	33.7	19.4	12.9	16.9	29.3	21.8
CK64	22	10.6	29.3	17.5	13.8	12.1	17.7	16.8
CK69	23	23.2	39.5	19.4	21.4	9.5	18.9	22.0
CK75	24	5.9	17.3	8.7	6.1	10.9	9.9	9.8
CG11	25	28.5	31.8	15.6	19.1	14.4	26.6	22.7
CG12	26	26.0	38.6	17.3	12.7	13.9	17.8	21.1
CG13	27	19.2	39.1	15.2	13.6	4.8	17.5	18.2
CG14	28	21.3	31.5	20.5	15.3	18.4	28.6	22.6
CG15	29	27.1	26.0	15.4	10.3	7.9	24.9	18.6
CG16	30	40.2	49.1	16.5	23.0	11.7	23.7	27.4
CG17	31	38.7	40.9	14.9	22.0	12.0	35.7	27.4
CG18	32	37.1	39.4	20.5	17.6	11.4	29.2	25.8
CL1	33	13.5	27.7	15.0	9.9	12.0	16.5	15.8
Ms72	34	33.9	41.8	11.4	6.2	0.1++	8.0+	19.7
Ms74	35	23.4	35.9	19.6	16.2	14.0	24.9	22.3
W117Ht *	36	23.9	51.4	13.3	6.7	11.3	16.2	20.5
Mean		26.6	38.7	16.1	12.7	9.3	20.7	20.8
LSD 0.05		2.0	6.1	4.7	4.6	4.9	10.2	6.4
CV%		4.5	9.6	18.0	22.4	32.1	30.1	47.3

\* Check entry.

+ Data missing from one replication.

++ Data missing from two replications.

Table 2. Stand (percent) evaluation of the 100-300 maturity inbred lines.

Entry	No.	MN	ND	CANGUE	CANBDN	CANSTJ	Mean
CM105 *	1	88.9	81.1	97.2	65.6	80.0	82.6
C0109 *	2	68.5	81.1	90.3	62.2	74.4	75.3
A661	3	88.9	87.8	100.0	75.6	90.0	88.4
A665	4	85.2	84.4	86.1	68.9	65.6	78.0
A666	5	81.5	83.3	100.0	52.2	62.2	75.9
A671	6	88.9	77.8	98.6	53.3	80.0	79.7
ND100	7	96.3	85.6	100.0	70.0	67.8	83.9
ND240	8	94.4	82.2	98.6	40.0	62.2	75.5
ND241	9	85.2	86.7	100.0	70.0	68.9	82.1
ND245	10	85.2	80.0	100.0	55.6	74.4	79.0
ND246	11	98.1	87.8	95.8	76.7	74.4	86.6
ND300	12	70.4	66.7	70.8	53.3	45.6	61.4
ND301	13	92.6	87.8	93.1	64.4	86.7	84.9
ND376	14	75.9	67.8	59.7	51.7+	52.2	62.2
ND408	15	87.0	83.3	97.2	58.9	77.8	80.9
ND474	16	38.9	58.9	27.8	12.2	55.6	38.7
Pa326	17	61.1	75.6	100.0	63.3	76.7	75.3
Pa329	18	29.6	55.6	77.8	15.0+	16.7+	42.5
Pa373	19	.	.	15.3	.	.	15.3
Pa374	20	.	.	15.3	20.0++	.	16.5
CK52	21	83.3	85.6	100.0	66.7	80.0	83.1
CK64	22	74.1	77.8	90.3	60.0	70.0	74.4
CK69	23	94.4	75.6	100.0	56.7	54.4	76.2
CK75	24	94.4	85.6	100.0	78.9	88.9	89.6
CG11	25	90.7	87.8	98.6	75.6	80.0	86.5
CG12	26	96.3	90.0	100.0	56.7	58.9	80.4
CG13	27	94.4	84.4	100.0	31.1	88.9	79.8
CG14	28	94.4	87.8	100.0	76.7	94.4	90.7
CG15	29	87.0	83.3	97.2	54.4	68.9	78.2
CG16	30	83.3	54.4	98.6	53.3	83.3	74.6
CG17	31	88.9	85.6	98.6	55.6	82.2	82.2
CG18	32	88.9	82.2	100.0	61.1	67.8	80.0
CL1	33	74.1	88.9	101.4	41.1	61.1	73.3
Ms72	34	79.6	80.0	100.0	26.7++	55.6	74.8
Ms74	35	83.3	86.7	93.1	56.7	70.0	77.9
W117Ht *	36	68.5	81.1	98.6	65.6	74.4	77.6
Mean		82.1	80.3	88.9	57.3	70.8	76.2
LSD 0.05		21.0	15.2	15.6	17.8	26.4	11.6
CV%		15.7	11.6	10.7	19.0	22.9	21.3

\* Check entry.

+ Data missing from one replication.

++ Data missing from two replications.

Table 3. Root lodging (percent) evaluation of the 100-300 maturity inbred lines.

Entry	No.	MN	ND	CANBDN	CANSTJ	Mean
CM105 *	1	0.0	0.0	0.0	34.8	8.7
C0109 *	2	56.8	0.0	1.8	71.8	32.6
A661	3	31.0	0.0	0.0	95.1	31.5
A665	4	2.4	0.0	0.0	62.3	16.2
A666	5	0.0	0.0	0.0	58.5	14.6
A671	6	0.0	0.0	0.0	0.0	0.0
ND100	7	0.0	1.3	0.0	12.0	3.3
ND240	8	1.0	0.0	0.0	19.9	5.2
ND241	9	3.5	0.0	0.0	68.6	18.0
ND245	10	2.4	4.3	0.0	3.1	2.5
ND246	11	1.9	2.4	0.0	18.8	5.8
ND300	12	52.5	6.5	0.0	55.8	28.7
ND301	13	0.9	0.0	1.7	30.6	8.3
ND376	14	19.0	0.0	0.0+	47.7	18.2
ND408	15	0.0	1.2	0.0	78.5	19.9
ND474	16	38.9	0.0	0.0	47.8	21.7
Pa326	17	0.0	0.0	0.0	7.7	1.9
Pa329	18	0.0	0.0	0.0+	12.5+	2.5
Pa373	19	.	.	.	.	.
Pa374	20	.	.	0.0++	.	0.0
CK52	21	1.0	3.8	0.0	95.1	25.0
CK64	22	0.0	0.0	0.0	17.4	4.3
CK69	23	0.0	0.0	0.0	4.8	1.2
CK75	24	0.0	0.0	0.0	1.4	0.3
CG11	25	0.0	0.0	0.0	19.0	4.8
CG12	26	0.0	0.0	0.0	41.1	10.3
CG13	27	22.1	0.0	0.0	61.6	20.9
CG14	28	2.9	7.2	2.8	30.7	10.9
CG15	29	4.6	0.0	2.2	50.0	14.2
CG16	30	48.9	20.6	15.7	80.7	41.5
CG17	31	54.8	4.9	11.7	82.9	38.6
CG18	32	0.0	0.0	0.0	20.6	5.2
CL1	33	0.0	0.0	0.0	30.1	7.5
Ms72	34	0.0	0.0	0.0++	98.3	29.5
Ms74	35	33.7	0.0	0.0	68.5	25.5
W117H+ *	36	0.0	0.0	1.6	37.7	9.8
Mean		11.1	1.5	1.1	43.4	14.3
LSD 0.05		12.9	8.5	NS	28.1	21.7
CV%		70.9	340.0		39.6	188.7

\* Check entry.

+ Data missing from one replication.

++ Data missing from two replications.

Table 4. Stalk lodging (percent) evaluation of the 100-300 maturity inbred lines.

Entry	No.	MN	ND	CANGUE	CANBDN	Mean
CM105 *	1	6.1	0.0	17.1	0.0	5.8
CO109 *	2	23.4	1.3	29.6	0.0	13.6
A661	3	13.9	10.5	58.3	10.7	23.4
A665	4	1.0	0.0	17.2	0.0	4.6
A666	5	1.4	1.2	11.1	5.1	4.7
A671	6	2.1	0.0	6.9	0.0	2.3
ND100	7	1.0	2.7	44.4	0.0	12.0
ND240	8	36.0	13.9	54.3	5.1	27.3
ND241	9	34.6	2.6	45.8	0.0	20.8
ND245	10	0.9	0.0	25.0	0.0	6.5
ND246	11	3.9	0.0	44.9	0.0	12.2
ND300	12	33.4	26.0	103.4	0.0	40.7
ND301	13	5.1	1.2	10.4	0.0	4.2
ND376	14	1.4	0.0	99.7	0.0+	27.6
ND408	15	10.9	0.0	15.5	0.0	6.6
ND474	16	24.1	3.8	95.0+	0.0	24.9
Pa326	17	1.1	3.3	30.6	1.4	9.1
Pa329	18	0.0	0.0	18.8	0.0+	5.1
Pa373	19	.	.	0.0++	.	0.0
Pa374	20	.	.	0.0++	0.0++	0.0
CK52	21	66.4	20.7	83.3	0.0	42.6
CK64	22	27.8	36.2	64.0	0.0	32.0
CK69	23	51.5	2.9	54.7	0.0	27.3
CK75	24	15.7	7.0	70.8	3.8	24.3
CG11	25	0.0	0.0	18.4	0.0	4.6
CG12	26	1.9	0.0	27.8	0.0	7.4
CG13	27	1.9	0.0	34.7	0.0	9.2
CG14	28	51.9	6.1	55.6	20.3	33.5
CG15	29	14.5	2.7	36.4	0.0	13.4
CG16	30	11.9	1.6	35.3	10.4	14.8
CG17	31	25.9	44.6	39.6	0.0	27.5
CG18	32	29.9	21.6	23.6	0.0	18.8
CL1	33	8.2	4.9	78.1	7.7	24.7
Ms72	34	0.0	2.8	11.1	0.0++	4.2
Ms74	35	10.0	11.1	71.5	5.9	24.6
W117H+ *	36	0.0	0.0	18.2	0.0	4.6
Mean		15.2	6.7	41.3	2.1	16.5
LSD 0.05		13.0	18.1	40.8	8.6	20.1
CV%		52.5	164.6	60.4	246.0	152.3

\* Check entry.

+ Data missing from one replication.

++ Data missing from two replications.

Table 5. Usable ears (per 100 plants) evaluation of the 100-300 maturity inbred lines.

Entry	No.	ND	CANBDN	CANSTJ	Mean
CM105 *	1	98.3	61.7	101.7	87.2
CO109 *	2	105.0	68.3	83.3	85.6
A661	3	100.0	110.0	95.0	101.7
A665	4	96.7	76.7	60.0	77.8
A666	5	100.0	81.7	101.7	94.4
A671	6	101.7	28.3	110.0	80.0
ND100	7	96.7	103.3	73.3	91.1
ND240	8	110.0	63.3	60.0	77.8
ND241	9	116.7	100.0	98.3	105.0
ND245	10	96.7	80.0	93.3	90.0
ND246	11	101.7	111.7	85.0	99.4
ND300	12	88.3	46.7	50.0	61.7
ND301	13	101.7	85.0	96.7	94.4
ND376	14	81.7	20.0+	60.0	58.1
ND408	15	138.3	56.7	45.0	80.0
ND474	16	101.7	18.3	63.3	61.1
Pa326	17	85.0	86.7	83.3	85.0
Pa329	18	83.3	22.5+	25.0+	49.3
Pa373	19	.	.	.	.
Pa374	20	.	25.0++	.	25.0
CK52	21	108.3	103.3	101.7	104.4
CK64	22	90.0	78.3	86.7	85.0
CK69	23	105.0	81.7	75.0	87.2
CK75	24	118.3	105.0	35.0	86.1
CG11	25	101.7	101.7	98.3	100.6
CG12	26	101.7	86.7	70.0	86.1
CG13	27	100.0	40.0	91.7	77.2
CG14	28	106.7	120.0	101.7	109.4
CG15	29	103.3	78.3	88.3	90.0
CG16	30	85.0	68.3	85.0	79.4
CG17	31	78.3	86.7	95.0	86.7
CG18	32	91.7	85.0	86.7	87.8
CL1	33	98.3	70.0	81.7	83.3
Ms72	34	86.7	10.0++	46.7	58.6
Ms74	35	103.3	86.7	103.3	97.8
W117H+ *	36	90.0	85.0	71.7	82.2
Mean		99.2	75.6	80.0	85.0
LSD 0.05		18.5	25.2	31.1	30.1
CV%		11.5	20.4	23.8	37.6

\* Check entry.

+ Data missing from one replication.

++ Data missing from two replications.

Table 6. Plant height (cm) evaluation of the 100-300 maturity inbred lines.

Entry	No.	MI	MN	MO	ND	CANGUE	CANSTJ	Mean
CM105 *	1	128.3	142.7	136.7	128.7	112.3	164.7	135.6
CO109 *	2	121.3	131.7	131.7	128.7	117.3	147.0	129.6
A661	3	141.7	146.0	118.3	132.3	128.3	155.3	137.0
A665	4	133.3	132.7	138.3	117.7	105.3	162.3	131.6
A666	5	128.3	133.3	131.7	134.0	119.0	146.0	132.1
A671	6	133.3	135.7	131.7	121.0	117.7	148.3	131.3
ND100	7	113.3	114.0	123.3	111.7	113.7	136.3	118.7
ND240	8	98.3	109.7	103.3	113.3	89.7	120.7	105.8
ND241	9	113.3	131.7	125.0	126.3	90.3	141.0	121.3
ND245	10	116.7	125.7	121.7	128.7	108.3	135.7	122.8
ND246	11	116.7	126.0	116.7	115.0	113.7	137.3	120.9
ND300	12	141.7	149.0	138.3	142.3	121.3	153.3	141.0
ND301	13	128.3	134.7	118.3	118.7	117.7	144.3	127.0
ND376	14	130.0	133.3	133.3	144.7	116.7	155.7	135.6
ND408	15	131.7	118.7	121.7	146.3	88.0	154.7	126.8
ND474	16	113.3	117.7	116.7	134.7	84.0+	142.7	120.2
Pa326	17	121.7	117.7	125.0	121.3	117.3	163.0	127.7
Pa329	18	111.7	121.0	113.3	135.3	108.0	141.5+	120.6
Pa373	19	130.0	.	.	.	.	.	130.0
Pa374	20	116.7	.	136.7	.	.	.	126.7
CK52	21	101.7	113.7	91.7	111.7	94.0	139.7	108.7
CK64	22	110.0	106.0	103.3	117.7	117.0	128.7	113.8
CK69	23	115.0	123.7	125.0+	123.0	104.3	155.7	124.4
CK75	24	106.7	117.3	100.0	120.0	98.3	142.7	114.2
CG11	25	96.7	109.0	83.3	103.0	98.7	126.3	102.8
CG12	26	115.0	118.0	105.0	117.3	104.0	139.3	116.4
CG13	27	93.3	104.7	95.0	97.7	93.7	113.3	99.6
CG14	28	123.3	114.3	115.0	126.3	108.7	147.3	122.5
CG15	29	125.0	112.0	121.7	117.0	101.3	139.7	119.4
CG16	30	145.0	151.3	136.7	149.0	131.3	152.3	144.3
CG17	31	150.0	138.7	118.3	131.0	115.3	153.7	134.5
CG18	32	115.0	120.7	118.3	131.3	111.3	136.0	122.1
CL1	33	90.0	94.3	103.3	101.0	87.0	102.7	96.4
Ms72	34	158.3	147.7	163.3	148.0	133.3	170.3	153.5
Ms74	35	118.3	122.7	115.0	124.7	102.3	134.3	119.6
W117Ht *	36	95.0	117.7	121.7	116.7	106.3	130.7	114.7
Mean		120.2	124.5	119.9	124.6	108.3	143.0	123.4
LSD 0.05		12.8	7.0	13.0	13.9	21.2	9.4	8.8
CV%		6.5	3.4	6.6	6.8	12.0	4.0	11.0

\* Check entry.

+ Data missing from one replication.



Table 7. Ear height (cm) evaluation of the 100-300 maturity inbred lines.

Entry	No.	MI	MN	MO	ND	CANGUE	CANSTJ	Mean
CM105 *	1	50.0	55.7	45.0	55.0	35.7	63.0	50.7
C0109 *	2	49.0	49.0	41.7	49.3	28.3	40.7	43.0
A661	3	63.3	65.7	46.7	56.7	41.8	54.0	54.7
A665	4	68.3	58.7	53.3	61.0	43.8	54.0	56.5
A666	5	55.0	49.3	43.3	51.0	43.1	41.7	47.2
A671	6	50.0	54.7	45.0	58.7	39.1	42.7	48.4
ND100	7	50.0	50.3	43.3	52.3	38.1	44.7	46.5
ND240	8	41.7	41.3	35.0	50.0	21.1	31.7	36.8
ND241	9	45.0	59.0	45.0	58.7	28.0	44.7	46.7
ND245	10	55.0	50.3	41.7	56.7	27.0	40.0	45.1
ND246	11	50.0	52.3	40.0	60.0	27.2	43.0	45.4
ND300	12	63.3	79.3	58.3	87.0	51.1	52.0	65.2
ND301	13	56.7	53.3	45.0	47.3	30.2	41.0	45.6
ND376	14	70.0	65.3	55.0	80.7	37.0	55.0	60.5
ND408	15	65.0	53.7	51.7	88.3	35.6	59.3	58.9
ND474	16	48.3	47.7	31.7	68.0	18.8+	35.3	43.0
Pa326	17	45.0	38.0	38.3	45.7	37.8	40.7	40.9
Pa329	18	50.0	51.0	45.0	69.3	27.9	41.5+	47.8
Pa373	19	66.7	.	.	.	.	.	66.7
Pa374	20	56.7	.	30.0	.	.	.	43.3
CK52	21	40.0	37.0	28.3	39.0	16.0	41.7	33.7
CK64	22	36.7	26.7	21.7	45.0	23.3	23.7	29.5
CK69	23	48.3	57.3	37.5+	50.7	32.1	45.0	45.6
CK75	24	38.3	41.7	25.0	48.0	26.0	34.0	35.5
CG11	25	35.0	31.3	23.3	37.3	25.6	27.0	29.9
CG12	26	50.0	39.7	30.0	43.3	26.1	34.0	37.2
CG13	27	41.7	36.7	33.3	46.7	26.4	24.0	34.8
CG14	28	45.0	33.3	35.0	45.0	27.2	38.7	37.4
CG15	29	56.7	39.0	41.7	49.0	23.2	40.3	41.6
CG16	30	64.7	64.7	50.0	68.7	48.4	47.3	57.3
CG17	31	71.7	63.7	43.3	71.3	33.4	49.3	55.4
CG18	32	50.0	53.3	43.3	65.3	37.0	44.7	48.9
CL1	33	36.7	26.3	26.7	33.0	16.2	23.0	27.0
Ms72	34	71.7	69.0	68.3	78.0	53.0	49.0	64.8
Ms74	35	50.0	47.7	41.7	51.0	22.3	39.0	41.9
W117Ht *	36	38.3	48.3	41.7	58.0	43.5	52.3	47.0
Mean		52.0	49.7	40.8	56.6	32.2	42.3	45.7
LSD 0.05		8.2	5.5	11.2	12.1	15.4	12.5	6.6
CV%		9.6	6.8	16.9	13.1	29.2	18.1	22.0

\* Check entry.

+ Data missing from one replication.

Table 8. Moisture (percent) evaluation of the 100-300 maturity Inbred lines.

Entry	No.	MI	MN	ND	CANGUE	CANBDN	CANSTJ	Mean
CM105 *	1	33.1	23.6	46.2	37.7	62.0	39.7	40.4
CO109 *	2	30.5	17.6	30.6	33.5	43.6	54.0	35.0
A661	3	34.4	23.1	39.0	43.5	60.1	45.7	41.0
A665	4	36.2	23.0	46.2	48.9	73.5	38.7	44.4
A666	5	27.1	24.5	30.5	37.4	57.2	40.3	36.2
A671	6	37.6	30.6	52.8	60.6	81.3	51.5+	52.4
ND100	7	26.0	25.3	40.8	38.8	45.4	49.3	37.6
ND240	8	25.5	21.8	36.7	33.0	68.2	19.0++	35.9
ND241	9	18.8	19.1	33.3	36.9	51.4	39.5+	32.8
ND245	10	19.1	15.4	22.0	23.6	37.5	38.7	26.0
ND246	11	19.5	15.0	21.9	19.5	38.2	38.3	25.4
ND300	12	30.3	26.1	40.1	37.9	66.1	48.5+	41.1
ND301	13	31.4	23.7	35.0	32.8	54.6	40.7	36.4
ND376	14	40.0	27.1	48.4	41.7	70.9+	58.0+	45.6
ND408	15	33.3	24.2	40.8	41.7	64.6	55.5+	42.7
ND474	16	24.6	20.3	35.8	50.7++	52.8	41.5+	35.6
Pa326	17	20.5	21.0	39.5	26.9+	58.5	41.0	35.0
Pa329	18	39.2	32.1	53.9	51.9	75.0+	53.0++	48.9
Pa373	19	38.2	.	.	.	.	.	38.2
Pa374	20	34.2	.	.	.	66.7++	.	42.3
CK52	21	18.1	18.9	23.2	29.0	39.4	37.5+	27.1
CK64	22	18.6	16.0	16.0	19.9	18.2	20.0++	17.9
CK69	23	28.6	20.2	35.3	29.7	58.0	44.5+	35.6
CK75	24	40.9	20.7	35.6	35.9	55.0	54.0+	39.6
CG11	25	18.5	18.7	19.0	24.5	33.5	37.5+	24.6
CG12	26	18.9	18.0	21.6	30.0	38.2	45.0++	26.6
CG13	27	29.9	23.9	37.8	36.0	60.3	43.0++	37.9
CG14	28	30.2	18.3	34.6	31.5	52.2	41.7	34.7
CG15	29	27.7	17.2	27.2	29.7	42.9	46.0	31.8
CG16	30	31.9	23.3	38.5	35.3	54.3	37.0+	36.7
CG17	31	22.2	20.2	29.0	30.0	54.3	43.3	33.2
CG18	32	19.8	20.3	23.8	26.5	49.1	44.0+	29.8
CL1	33	18.5	16.5	21.9	29.5	27.0	35.0	24.7
Ms72	34	36.1	29.9	49.9	59.2	73.6++	58.0++	46.9
Ms74	35	27.8	19.1	27.3	27.5	40.8	42.7	30.8
W117H+ *	36	28.0	25.5	44.2	46.0	49.6	54.0	41.2
Mean		28.2	21.9	34.7	35.6	52.5	43.6	35.6
LSD 0.05		1.5	1.5	7.5	7.7	8.6	NS	6.2
CV%		3.2	4.2	13.2	13.2	10.0		26.8

\* Check entry.

+ Data missing from one replication.

++ Data missing from two replications.

Table 9. Days-to-tassel evaluation of the 100-300 maturity inbred lines.

Entry	No.	MN	MO	ND	CANGUE	CANSTJ#	Mean
CM105 *	1	76.0	75.0	72.0	92.0	59.7	74.9
CO109 *	2	77.3	73.7	70.7	99.0	67.0+	78.3
A661	3	77.7	70.3	70.0	90.7	60.7	73.9
A665	4	81.3	72.3	79.0	101.7	68.0++	82.4
A666	5	74.3	71.7	70.3	90.7	60.7	73.5
A671	6	83.0	74.7	79.0	93.0	68.7	79.7
ND100	7	74.3	70.0	68.3	89.0	64.7	73.3
ND240	8	71.0	69.0	69.3	83.3	57.0	69.9
ND241	9	75.3	73.7	70.7	86.7	60.0	73.3
ND245	10	69.3	68.7	66.7	83.7	53.7	68.4
ND246	11	71.0	69.0	67.0	83.7	55.3	69.2
ND300	12	78.0	74.3	75.7	94.7	68.0+	78.9
ND301	13	74.7	70.7	70.7	84.7	58.3	71.8
ND376	14	78.7	75.0	76.7	93.7	67.3	78.3
ND408	15	79.3	74.3	75.7	98.3	69.7	79.5
ND474	16	74.3	71.7	71.3	.	56.3	68.4
Pa326	17	76.3	73.0	73.7	88.0	61.3	74.5
Pa329	18	76.3	73.0	76.3	91.7	60.5+	76.6
Pa373	19	.	.	.	.	.	.
Pa374	20	.	71.0	.	.	.	71.0
CK52	21	66.0	66.7	62.7	80.3	50.7	65.3
CK64	22	67.0	69.7	56.3	82.0	49.7	64.9
CK69	23	74.3	72.0	69.0	86.0	59.3	72.1
CK75	24	70.3	67.0	65.0	82.3	54.7	67.9
CG11	25	67.0	66.0	55.3	85.7	50.7	64.9
CG12	26	67.0	66.3	55.7	86.0	52.0	65.4
CG13	27	72.3	69.7	68.7	88.7	56.3	71.1
CG14	28	69.0	68.3	66.3	87.3	54.7	69.1
CG15	29	74.3	70.3	67.3	87.3	56.0	71.1
CG16	30	74.7	71.7	71.0	91.7	61.3	74.1
CG17	31	75.3	73.0	73.0	92.3	60.0	74.7
CG18	32	76.0	71.7	70.7	93.7	59.7	74.3
CL1	33	69.0	69.3	67.0	85.3	54.3	69.0
Ms72	34	81.7	76.3	79.7	95.0	68.3	80.2
Ms74	35	73.3	71.3	69.7	83.0	57.0	70.9
W117Ht *	36	75.0	72.3	73.3	92.3	62.0	75.0
Mean		74.1	71.2	69.8	89.2	59.2	72.7
LSD 0.05		2.1	3.0	2.2	8.2	4.9	2.9
CV%		1.7	2.6	1.9	5.6	5.1	5.6

\* Check entry.

+ Data missing from one replication.

++ Data missing from two replications.

# No date of planting given, data are days from 1JUN.

Table 10. Days-to-silk evaluation of the 100-300 maturity inbred lines.

Entry	No.	MI	MN	ND	CANGUE	CANBDN	CANSTJ#	Mean
CM105 *	1	77.7	77.7	75.0	94.3	98.0	63.3	81.0
C0109 *	2	80.3	76.7	74.3	100.7	101.0	69.0+	84.5
A661	3	78.3	79.0	72.0	93.7	95.7	65.7	80.7
A665	4	82.7	82.3	80.7	103.3	100.0+	69.0++	87.7
A666	5	75.0	74.3	72.3	92.3	94.3	62.3	78.4
A671	6	81.7	83.7	81.7	98.3	103.0++	69.0	86.3
ND100	7	72.3	75.3	72.0	91.0	97.0	66.3	79.0
ND240	8	73.3	74.3	71.3	85.7	99.0	64.3	78.0
ND241	9	75.0	76.7	75.0	87.0	95.3	65.3	79.1
ND245	10	71.0	72.0	71.3	87.3	94.3	58.3	75.7
ND246	11	69.0	74.0	71.3	85.7	95.7	60.3	76.0
ND300	12	77.0	79.0	77.0	96.3	103.0	68.0+	85.3
ND301	13	75.0	76.3	75.3	89.7	97.0	65.0	79.7
ND376	14	79.7	80.0	77.3	94.0	96.5+	67.0	83.5
ND408	15	79.7	81.7	78.7	103.0	103.0	.	89.2
ND474	16	72.3	73.0	70.0	.	99.0	62.3	75.3
Pa326	17	73.0	75.7	75.3	88.0	93.3	65.7	78.5
Pa329	18	75.3	77.0	76.0	92.7	100.0+	65.0+	80.8
Pa373	19	82.0	.	.	.	.	.	82.0
Pa374	20	76.0	.	.	.	103.0++	.	82.8
CK52	21	71.0	68.0	69.0	84.0	95.7	55.0	73.8
CK64	22	70.0	67.3	64.7	80.7	87.3	54.3	70.7
CK69	23	71.3	74.3	70.7	87.3	95.7	64.3	77.3
CK75	24	70.0	71.3	66.3	84.3	98.0	59.3	74.9
CG11	25	67.3	67.3	62.3	85.7	89.7	51.7	70.7
CG12	26	67.3	68.3	62.7	87.7	93.3	54.7	72.3
CG13	27	69.7	73.7	71.0	93.3	100.3	63.0	78.5
CG14	28	71.0	70.3	69.3	89.7	89.7	61.0	75.2
CG15	29	70.7	75.0	69.3	88.7	97.0	58.7	76.6
CG16	30	70.7	74.3	72.0	91.7	94.3	64.7	77.9
CG17	31	72.0	77.7	76.3	93.0	99.0	63.5	81.2
CG18	32	72.0	76.3	72.7	94.3	93.0	63.7	78.7
CL1	33	67.7	69.3	68.3	85.7	94.3	56.3	73.6
Ms72	34	80.3	83.0	81.7	96.0	.	69.0	84.0
Ms74	35	75.0	73.7	71.3	84.3	97.0	60.0	76.9
W117Ht *	36	74.0	75.7	78.0	97.0	101.0	68.3	82.3
Mean		74.1	75.1	72.7	91.1	96.5	62.1	78.7
LSD 0.05		1.5	2.3	1.7	8.6	3.6	4.0	2.5
CV%		1.2	1.9	1.4	5.8	2.3	4.0	4.8

\* Check entry.

+ Data missing from one replication.

++ Data missing from two replications.

# No date of planting given, data are days from 1JUN.

Table 11. Ear row number evaluation of the 100-300 maturity inbred lines.

Entry	No.	ND	CANBDN	CANSTJ	Mean
CM105 *	1	12.9	14.2	14.0	13.7
CO109 *	2	14.6	14.6	14.0	14.4
A661	3	16.6	17.0	16.0	16.5
A665	4	14.0	14.6	14.0	14.2
A666	5	14.3	13.5	13.3	13.7
A671	6	14.3	13.4	15.3	14.3
ND100	7	13.5	13.9	12.7	13.4
ND240	8	18.7	16.4	16.0	17.0
ND241	9	17.6	15.4	16.0	16.3
ND245	10	12.0	11.3	12.7	12.0
ND246	11	11.5	12.5	12.0	12.0
ND300	12	13.9	14.6	13.3	13.9
ND301	13	14.9	15.6	14.0	14.8
ND376	14	16.0	14.5+	14.0	14.9
ND408	15	17.7	17.8	16.0	17.2
ND474	16	15.3	14.7	14.0	14.7
Pa326	17	13.4	12.9	12.7	13.0
Pa329	18	15.8	14.5+	16.0++	15.4
Pa373	19	.	.	.	.
Pa374	20	.	13.2++	.	13.2
CK52	21	13.3	12.4	12.0	12.6
CK64	22	12.6	13.3	12.0	12.6
CK69	23	13.1	12.7	12.7	12.8
CK75	24	12.4	12.8	10.0	11.7
CG11	25	13.5	13.7	14.0	13.7
CG12	26	14.5	14.0	13.3	13.9
CG13	27	16.9	16.9	15.3	16.4
CG14	28	14.3	14.1	14.0	14.1
CG15	29	13.1	12.3	12.7	12.7
CG16	30	15.3	15.3	14.0	14.9
CG17	31	15.5	16.1	18.0	16.6
CG18	32	14.8	15.5	15.3	15.2
CL1	33	17.1	17.2	14.0	16.1
Ms72	34	12.8	12.0++	12.0+	12.4
Ms74	35	15.4	14.3	14.0	14.6
W117H+ *	36	14.0	13.7	13.3	13.7
Mean		14.6	14.4	13.9	14.3
LSD 0.05		1.0	1.1	1.4	1.2
CV%		3.7	4.6	6.3	8.9

\* Check entry.

+ Data missing from one replication.

++ Data missing from two replications.

Table 12. Ear length (cm) evaluation of the 100-300 maturity inbred lines.

Entry	No.	ND	CANBDN	CANSTJ	Mean
CM105 *	1	12.7	13.2	16.3	14.1
CO109 *	2	13.0	12.1	11.7	12.3
A661	3	11.6	11.1	13.0	11.9
A665	4	14.0	13.8	16.3	14.7
A666	5	14.1	11.7	13.3	13.0
A671	6	12.9	9.7	13.3	12.0
ND100	7	11.8	11.9	12.7	12.1
ND240	8	11.5	9.2	11.7	10.8
ND241	9	11.0	10.7	11.7	11.1
ND245	10	13.2	14.7	15.0	14.3
ND246	11	13.8	14.0	14.7	14.2
ND300	12	14.6	14.6	13.7	14.3
ND301	13	13.4	13.2	13.7	13.4
ND376	14	11.1	10.9+	12.3	11.5
ND408	15	11.2	10.7	11.3	11.1
ND474	16	13.2	12.5	11.7	12.5
Pa326	17	15.1	14.8	15.3	15.1
Pa329	18	12.2	10.6+	13.0++	11.8
Pa373	19	.	.	13.0++	13.0
Pa374	20	.	12.9++	.	12.9
CK52	21	15.3	15.9	16.3	15.8
CK64	22	14.1	12.7	14.3	13.7
CK69	23	11.7	11.5	12.7	11.9
CK75	24	11.6	10.8	9.0	10.5
CG11	25	11.7	11.3	12.7	11.9
CG12	26	11.6	12.1	12.7	12.1
CG13	27	9.3	8.9	11.0	9.7
CG14	28	13.1	12.1	14.3	13.2
CG15	29	14.4	13.6	15.7	14.5
CG16	30	9.9	10.0	9.3	9.8
CG17	31	11.4	12.2	14.3	12.6
CG18	32	12.7	11.8	13.7	12.7
CL1	33	11.5	11.1	10.7	11.1
Ms72	34	11.4	12.5++	12.5+	11.9
Ms74	35	13.4	13.5	12.3	13.1
W117H+ *	36	12.2	11.9	12.7	12.2
Mean		12.5	12.1	13.1	12.6
LSD 0.05		1.2	1.0	2.1	1.3
CV%		5.8	5.2	9.7	11.4

\* Check entry.

+ Data missing from one replication.

++ Data missing from two replications.

Table 13. Ear diameter (cm) evaluation of the 100-300 maturity inbred lines.

Entry	No.	ND	CANBDN	CANSTJ	Mean
CM105 *	1	3.5	3.6	3.7	3.6
CO109 *	2	3.9	3.6	3.5	3.7
A661	3	3.8	3.7	3.6	3.7
A665	4	3.6	3.2	3.6	3.5
A666	5	3.8	3.5	3.6	3.6
A671	6	3.9	2.9	3.4	3.4
ND100	7	3.4	3.3	3.3	3.3
ND240	8	4.1	3.5	3.3	3.7
ND241	9	3.8	3.3	3.3	3.5
ND245	10	2.9	2.9	3.0	2.9
ND246	11	2.9	2.9	3.0	2.9
ND300	12	3.3	3.0	2.9	3.1
ND301	13	3.6	3.6	3.5	3.6
ND376	14	3.8	3.3+	3.4	3.5
ND408	15	3.8	3.4	3.4	3.5
ND474	16	4.1	3.8	3.6	3.8
Pa326	17	3.6	3.5	3.3	3.5
Pa329	18	4.1	3.2+	3.9++	3.8
Pa373	19	.	.	3.6++	3.6
Pa374	20	.	3.4++	.	3.4
CK52	21	3.4	3.0	3.2	3.2
CK64	22	3.5	3.3	3.2	3.3
CK69	23	3.8	3.3	3.4	3.5
CK75	24	3.4	3.6	3.1	3.3
CG11	25	3.3	3.2	3.6	3.4
CG12	26	3.5	3.3	3.4	3.4
CG13	27	4.0	3.7	3.5	3.8
CG14	28	3.9	3.7	3.6	3.7
CG15	29	3.4	3.5	3.5	3.5
CG16	30	4.1	3.7	3.8	3.9
CG17	31	3.7	3.4	3.2	3.5
CG18	32	3.6	3.5	3.7	3.6
CL1	33	3.9	3.9	3.6	3.8
Ms72	34	3.4	3.0++	3.2+	3.3
Ms74	35	3.6	3.6	3.5	3.6
W117H+ *	36	3.5	3.3	3.2	3.3
Mean		3.6	3.4	3.4	3.5
LSD 0.05		0.2	0.2	0.3	0.3
CV%		3.1	3.1	5.3	8.2

\* Check entry.

+ Data missing from one replication.

++ Data missing from two replications.

Table 14. Three-hundred kernel weight (g) evaluation of the 100-300 maturity inbred lines.

Entry	No.	ND	CANBDN	CANSTJ	Mean
CM105 *	1	49.0	34.0	54.1	45.7
CO109 *	2	56.7	35.7	46.9	46.4
A661	3	45.5	30.0	49.2	41.5
A665	4	44.6	27.0	54.5	42.0
A666	5	47.0	33.7	60.0+	45.2
A671	6	44.0	15.3	45.1	34.8
ND100	7	49.4	33.7	50.2	44.4
ND240	8	51.8	31.7	38.4	40.6
ND241	9	48.4	26.0	31.8+	35.8
ND245	10	43.1	29.3	47.1	39.8
ND246	11	43.6	29.0	48.3	40.3
ND300	12	49.5	27.3	41.8	39.5
ND301	13	47.0	32.0	53.0	44.0
ND376	14	63.9	30.5+	61.4	54.6
ND408	15	35.1	26.7	39.3	33.7
ND474	16	63.2	33.7	48.1	48.3
Pa326	17	50.2	31.0	50.3	43.8
Pa329	18	46.1	30.0+	52.6+	43.4
Pa373	19	.	.	.	.
Pa374	20	.	31.0++	.	31.0
CK52	21	60.3	38.0	56.2	51.5
CK64	22	39.6	30.3	38.7	36.2
CK69	23	52.3	24.3	50.7	42.5
CK75	24	54.3	43.0	72.7+	54.6
CG11	25	62.5	44.7	66.1	57.8
CG12	26	63.4	41.7	59.4	54.8
CG13	27	55.5	31.7	42.8	43.3
CG14	28	51.5	35.3	60.7	49.2
CG15	29	45.4	33.0	57.9	45.4
CG16	30	55.4	33.3	56.0	48.2
CG17	31	39.2	27.7	43.6	36.8
CG18	32	40.3	24.3	46.9	37.2
CL1	33	50.8	33.3	64.6	49.6
Ms72	34	46.2	11.0++	50.1+	41.7
Ms74	35	45.9	32.7	49.4	42.6
W117H+ *	36	58.5	31.7	53.9	48.0
Mean		50.0	31.4	51.1	44.2
LSD 0.05		7.6	4.4	6.8	8.1
CV%		9.3	8.6	8.2	19.5

\* Check entry.

+ Data missing from one replication.

++ Data missing from two replications.



Table 15. Stalk crushing strength (load-kg) evaluation of the 100-300 maturity inbred lines.

Entry	No.	MO
CM105 *	1	210.6
C0109 *	2	196.6
A661	3	289.1
A665	4	294.8
A666	5	190.5
A671	6	251.0
ND100	7	214.7
ND240	8	207.4
ND241	9	231.6
ND245	10	332.6
ND246	11	220.0
ND300	12	174.6+
ND301	13	128.5
ND376	14	303.9
ND408	15	178.4
ND474	16	218.2
Pa326	17	361.5
Pa329	18	224.5+
Pa373	19	.
Pa374	20	192.8++
CK52	21	134.4
CK64	22	184.5
CK69	23	120.7
CK75	24	81.6
CG11	25	161.8
CG12	26	210.2
CG13	27	178.4
CG14	28	169.3
CG15	29	198.1
CG16	30	204.1
CG17	31	165.0
CG18	32	299.4
CL1	33	138.3
Ms72	34	420.9
Ms74	35	256.3+
W117H+ *	36	280.5
Mean		218.3
LSD 0.05		95.5
CV%		26.8

\* Check entry.

+ Data missing from one replication.

++ Data missing from two replications.

Table 16. Bacterial wilt susceptibility evaluation of the 100-300 maturity inbred lines.

Entry	No.	Stewart's wilt			Goss' wilt
		MO	IL	Mean	NE
		(1-5)	(1-5)	(1-5)	(1-9)
CM105 *	1	3.0+	2.7	2.8	5.7
CO109 *	2	2.5+	2.0	2.2	3.0
A661	3	3.3	2.0	2.7	1.7
A665	4	3.0++	2.0	2.3	2.3
A666	5	.	2.3	2.3	3.3
A671	6	3.7	1.0	2.3	3.3
ND100	7	3.0	1.0	2.0	2.3
ND240	8	3.0+	2.0	2.4	1.3
ND241	9	2.0+	1.7	1.8	2.7
ND245	10	.	2.0	2.0	1.0
ND246	11	3.0++	2.3	2.5	3.3
ND300	12	.	2.0	2.0	2.0
ND301	13	3.7	2.0	2.8	4.3
ND376	14	2.0++	1.7	1.8	2.0
ND408	15	4.0++	1.3	2.0	4.5+
ND474	16	.	1.0	1.0	3.0
Pa326	17	2.3	2.0	2.2	2.7
Pa329	18	.	.	.	2.7
Pa373	19	.	.	.	3.0
Pa374	20	.	.	.	3.3
CK52	21	4.0+	2.7	3.0	2.7
CK64	22	.	2.0	2.0	2.7
CK69	23	4.0++	1.7	2.3	1.0
CK75	24	.	2.3	2.3	2.3
CG11	25	4.0	2.3	3.2	3.0
CG12	26	4.0	2.7	3.3	2.7
CG13	27	.	1.7	1.7	2.3
CG14	28	4.0++	2.7	3.0	1.3
CG15	29	2.5+	2.0	2.2	2.0
CG16	30	3.0++	1.7	2.0	2.5+
CG17	31	.	1.3	1.3	1.0
CG18	32	.	2.0	2.0	2.3
CL1	33	.	3.3	3.3	2.3
Ms72	34	3.0	1.7	2.3	3.0
Ms74	35	3.0	2.0	2.5	2.3
W117H+ *	36	4.0	2.0	3.0	1.0
Mean		3.2	2.0	2.4	2.5
LSD 0.05		0.6	0.9	NS	NS
CV%		11.5	27.6		

\* Check entry.

+ Data missing from one replication.

++ Data missing from two replications.

Table 17. Ear rot susceptibility evaluation of the 100-300 maturity inbred lines.

Entry	No.	<u>Fusarium</u>	<u>Gibberella</u>
		MN	MI
		(1-9)	(0-5)
CM105 *	1	1.8	1.3
CO109 *	2	4.3	1.5
A661	3	1.6	1.8
A665	4	4.6	3.8
A666	5	2.2	1.3
A671	6	1.8	1.2
ND100	7	4.2	1.4
ND240	8	3.8	1.5
ND241	9	3.7	0.9
ND245	10	1.8	0.2
ND246	11	1.3	0.5
ND300	12	5.1	3.2
ND301	13	2.2	1.9
ND376	14	4.2	2.2
ND408	15	4.7	1.9
ND474	16	1.6	0.8
Pa326	17	3.4	2.2
Pa329	18	3.1	2.2
Pa373	19	.	2.4
Pa374	20	.	1.8
CK52	21	4.0	0.0
CK64	22	2.5	.
CK69	23	3.6	0.9
CK75	24	.	1.2
CG11	25	2.1	0.3
CG12	26	5.7	0.0
CG13	27	1.4	0.5
CG14	28	2.0	0.7
CG15	29	1.9	0.5
CG16	30	2.4	1.3
CG17	31	3.2	0.7
CG18	32	1.6	1.4
CL1	33	1.4	0.0
Ms72	34	1.6	3.2
Ms74	35	1.8	1.3
W117H† *	36	1.6	2.1
Mean		2.8	1.4
LSD 0.05		1.4	1.6
CV%		30.8	69.8

\* Check entry.

Table 18. Fungal leaf disease susceptibility evaluation of the 100-300 maturity inbred lines.

Entry	No.	Eyespot			North.	Southern		Northern leaf blight		
		MI	CANSTJ	Mean	leaf	Date 1	Date 2	Race 1		Race 2
					spot	IL	IL	MI	IL	IL
(1-5)	(1-5)	(1-5)	(1-5)	(%LA#)	(%LA)	(1-5)	(%LA)	(%LA)		
CM105 *	1	2.7	1.8	2.2	2.0	13.3	36.7	3.7	14.3	.
C0109 *	2	4.3	3.3	3.8	5.0	8.3	60.0	5.0	12.2	12.2
A661	3	2.3	1.5	1.9	4.0	10.0	36.7	3.7	4.8	8.2
A665	4	3.3	2.1	2.7	2.7	8.3	76.7	5.0	11.5+	28.3
A666	5	3.0	1.6	2.3	2.7	16.7	40.0	2.3	3.3	3.3
A671	6	2.3	1.9	2.1	3.0	26.7	56.7	2.0	7.2	2.5+
ND100	7	4.3	2.4	3.4	3.7	6.7	60.0	3.3	20.8	23.3
ND240	8	3.3	2.3	2.8	5.0	13.3	86.7	5.0	20.8	43.3
ND241	9	3.7	2.4	3.0	5.0	15.0+	85.0+	5.0	24.3+	36.7
ND245	10	4.3	2.3	3.3	4.7	16.7	80.0	5.0	8.5	13.2
ND246	11	5.0	2.6	3.8	5.0	16.7	73.3	5.0	10.2	17.5
ND300	12	4.3	2.3	3.3	4.7	16.7	40.0	5.0	9.3+	45.0++
ND301	13	4.3	1.6	3.0	4.3	10.0	16.7	5.0	8.0	13.3+
ND376	14	4.0	1.8	2.9	3.0	10.0+	35.0+	5.0	35.0	.
ND408	15	3.0	1.7	2.4	3.3	26.7	83.3	5.0	33.3	47.5+
ND474	16	3.7	2.2	2.9	5.0	20.0+	90.0+	5.0	2.0++	6.5++
Pa326	17	4.7	2.4	3.5	5.0	16.7	56.7	4.7	8.3+	9.7
Pa329	18	3.0	2.1	2.5	3.3	.	.	1.7	4.0++	4.0++
Pa373	19	2.7	.	2.7	2.7	5.0++	20.0++	2.3	4.0++	.
Pa374	20	2.3	1.4+	2.0	3.3	.	.	1.3	2.0++	.
CK52	21	3.7	2.5	3.1	4.3	5.0	53.3	5.0	9.0	14.0
CK64	22	4.0	4.1	4.0	5.0	10.0	100.0	5.0	32.5+	52.5+
CK69	23	3.0	1.7	2.3	4.7	13.3	63.3	5.0	16.2	9.7
CK75	24	3.3	1.3	2.3	4.7	16.7	100.0	5.0	4.8	8.7
CG11	25	3.3	3.1	3.2	5.0	8.3	76.7	5.0	30.0	25.0
CG12	26	4.3	3.8	4.1	5.0	10.0	76.7	5.0	17.2	21.5
CG13	27	4.0	3.3	3.6	4.7	11.7	53.3	4.3	17.2	8.3
CG14	28	3.0	1.6	2.3	4.3	5.0	40.0	3.7	7.0	10.5
CG15	29	3.3	1.9	2.6	3.7	6.7	36.7	4.3	15.0	20.8
CG16	30	1.7	1.8	1.7	3.3	20.0	76.7	4.7	12.8	20.0++
CG17	31	1.7	1.4	1.5	3.3	16.7	86.7	4.7	11.3	20.0++
CG18	32	2.3	1.4	1.9	3.7	5.0	26.7	4.3	12.8	8.3
CL1	33	3.0	3.6	3.3	5.0	40.0	100.0	5.0	21.7	31.7
Ms72	34	2.0	1.3	1.6	3.3	5.0	36.7	3.7	24.5	17.5+
Ms74	35	2.3	1.5	1.9	3.7	6.7	33.3	3.7	7.5	16.7
W117Ht *	36	4.3	3.1	3.7	3.7	10.0	30.0	3.3	8.7	23.3
Mean		3.3	2.2	2.8	4.0	13.2	60.0	4.2	14.4	19.1
LSD 0.05		1.4	0.8	1.1	0.9	9.0	22.1	0.6	12.8	12.8
CV%		25.5	21.6	32.9	15.2	41.6	22.6	9.4	54.6	41.1

\* Check entry.  
+ Data missing from one replication.  
++ Data missing from two replications.  
# Represents percent of leaf area infected.

Table 19. Smut susceptibility evaluation of the 100-300 maturity inbred lines.

Entry	No.	Commn. Infct. CANSTJ	Head Infct. TX
		(%)	(%)
CM105 *	1	0.0	1.1
C0109 *	2	0.0	1.7
A661	3	0.0	0.0
A665	4	0.0	0.0
A666	5	7.6	1.7
A671	6	0.0	8.8
ND100	7	0.0	18.3
ND240	8	0.0	10.0
ND241	9	3.0	1.1
ND245	10	0.0	23.3
ND246	11	0.0	27.8
ND300	12	0.0	0.0
ND301	13	0.0	7.2
ND376	14	0.0	1.7
ND408	15	1.4	0.0
ND474	16	2.1	0.0
Pa326	17	6.7	0.0
Pa329	18	0.0	0.0
Pa373	19	.	1.7
Pa374	20	25.0+	9.5
CK52	21	4.8	3.3
CK64	22	0.0	0.0
CK69	23	4.8	2.2
CK75	24	0.0	1.7
CG11	25	1.2	0.0
CG12	26	6.5	2.9
CG13	27	3.8	3.3
CG14	28	0.0	3.3
CG15	29	0.0	20.0
CG16	30	0.0	0.0
CG17	31	6.5	0.0
CG18	32	5.8	0.0
CL1	33	1.3	0.0
Ms72	34	1.7	0.0
Ms74	35	1.2	3.3
W117H+ *	36	9.1	3.3
Mean		2.4	4.4
LSD 0.05		NS	11.7
CV%			166.3

\* Check entry.

+ Data missing from one replication.

Table 20. Stalk rot susceptibility evaluation of the 100-300 maturity inbred lines.

Entry	No.	Anthracnose					Stalk		
		Rating			Intnd. > 50% Infect. Infect.		Diplo. rot rating infect.		
		MI (1-5)	WI (1-5)	Mean (1-5)	IL No.	IL No.	IL (1-5)	CANSTJ (%)	
CM105 *	1	3.3	3.3	3.3	2.3	1.7	2.3	13.6	
CO109 *	2	5.0	4.0	4.5	2.6	1.9	3.9	0.0	
A661	3	5.0	2.3	3.7	1.5	1.0	3.7	0.0	
A665	4	2.3	3.7	3.0	2.8	2.1	3.4	0.0	
A666	5	2.3	3.0	2.7	1.5	0.5	3.7	1.9	
A671	6	2.3	2.3	2.3	1.0	0.0	1.8	0.0	
ND100	7	4.0	3.7	3.8	2.5	2.0	4.0	5.4	
ND240	8	4.7	4.3	4.5	3.0	2.6	3.9	27.4	
ND241	9	5.0	4.0	4.5	2.8	2.8	4.3	29.8	
ND245	10	5.0	3.3	4.2	1.6	1.0	3.4	1.4	
ND246	11	5.0	3.3	4.2	2.3	1.7	3.3	1.2	
ND300	12	5.0	4.0	4.5	2.9	1.9	2.8+	0.0	
ND301	13	4.7	3.7	4.2	2.5	1.8	3.3	3.8	
ND376	14	3.3	3.0	3.2	1.5	0.9	2.9	0.0	
ND408	15	4.3	3.0	3.7	1.9	1.0	3.0	0.0	
ND474	16	5.0	3.3	4.2	2.3+	1.5+	4.2	31.7	
Pa326	17	4.7	2.7	3.7	1.4	0.6	3.0	5.6	
Pa329	18	2.7	2.0	2.3	2.4	1.6	3.7	0.0	
Pa373	19	2.0	.	2.0	1.9+	0.9+	2.7	.	
Pa374	20	3.3	.	3.3	1.3	1.7	3.2	0.0+	
CK52	21	5.0	4.3	4.7	2.3	2.0	3.8	20.2	
CK64	22	5.0	4.3	4.7	2.4	1.8	3.2	41.2	
CK69	23	5.0	4.0	4.5	3.1	2.8	2.7	8.3	
CK75	24	5.0	4.7	4.8	2.8	2.1	4.3	0.0	
CG11	25	5.0	3.3	4.2	1.8	1.3	4.5	4.0	
CG12	26	5.0	3.7	4.3	2.5	2.0	4.7	7.2	
CG13	27	4.7	2.0	3.3	1.3	0.4	2.0	12.8	
CG14	28	3.7	4.0	3.8	1.5	0.5	2.9	6.2	
CG15	29	3.3	2.7	3.0	2.2	1.1	2.7	8.1	
CG16	30	2.7	3.3	3.0	1.3	1.0	3.9	1.3	
CG17	31	3.3	4.0	3.7	1.9	1.1	3.7	1.2	
CG18	32	3.3	3.3	3.3	1.8	0.8	3.3	10.3	
CL1	33	5.0	3.7	4.3	1.7	1.1	3.7	34.6	
Ms72	34	2.3	2.0	2.2	1.8	0.5	1.4	0.0	
Ms74	35	4.0	4.0	4.0	3.1	2.6	3.7	14.8	
W117Ht *	36	4.0	2.0	3.0	1.4	0.9	3.2	0.0	
Mean		4.0	3.4	3.7	2.1	1.4	3.3	8.4	
LSD 0.05		0.7	1.2	1.9	1.0	1.0	0.8	13.2	
CV%		10.2	22.3	31.4	29.9	42.6	14.0	95.6	

\* Check entry.

+ Data missing from one replication.

Table 21. Virus susceptibility evaluation of the 100-300 maturity inbred lines.

Entry	No.	MCDV OH	MDMV OH	CLN rating KS	Virus rating OH
		(%)	(%)	(1-9)	(1-9)
CM105 *	1	75.0	57.8	8.0	3.0
C0109 *	2	38.9	81.6	7.3	3.3
A661	3	80.4	85.1	7.7	3.3
A665	4	74.1	85.1	7.7	3.7
A666	5	97.4	63.0	8.3	3.7
A671	6	64.1	78.5	8.3	3.7
ND100	7	75.0	68.8	7.7	4.0
ND240	8	71.3	77.5	8.0	3.7
ND241	9	89.3	78.8	7.7	4.0
ND245	10	17.9	67.9	9.0	2.7
ND246	11	36.9	70.2	7.7	3.3
ND300	12	87.5	65.0	8.3	4.0
ND301	13	59.0	71.8	8.0	3.7
ND376	14	36.4	0.0	8.7	2.7
ND408	15	90.6	93.8	7.5+	4.7
ND474	16	66.7	87.5	6.7	4.0
Pa326	17	75.0	47.2	9.0	3.7
Pa329	18	100.0	20.0	8.0	3.0
Pa373	19	.	.	7.7	.
Pa374	20	.	.	7.7	.
CK52	21	96.9	90.2	7.7	4.0
CK64	22	78.0	71.0	7.7	3.7
CK69	23	90.4	94.1	8.0+	4.0
CK75	24	100.0	100.0	8.0	5.0
CG11	25	69.2	61.5	8.0	4.0
CG12	26	92.9	87.0	7.3	5.0
CG13	27	40.5	34.3	7.7	2.0
CG14	28	69.6	51.0	7.0	3.0
CG15	29	90.3	58.2	7.0	4.0
CG16	30	83.3	96.7	7.3	4.0
CG17	31	42.3	45.0	7.3	3.7
CG18	32	93.8	58.3	7.7	3.7
CL1	33	84.4	21.7	8.3	4.0
Ms72	34	54.6	20.4	7.7	3.0
Ms74	35	68.6	38.6	8.0	4.0
W117H+ *	36	79.6	70.8	7.0	4.0
Mean		72.6	64.7	7.8	3.7
LSD 0.05		22.9	21.6	NS	0.6
CV%		19.3	20.5		10.3

\* Check entry.

+ Data missing from one replication.

Table 22. Insect susceptibility evaluation of the 100-300 maturity inbred lines.

Entry	No.	ECB	
		First IA	Second IA
		(1-9)	(1-9)
CM105 *	1	2.0	9.0
C0109 *	2	4.3	9.0
A661	3	2.3	7.7
A665	4	4.7	8.7
A666	5	5.7	9.0
A671	6	3.0	9.0
ND100	7	5.7	8.3
ND240	8	5.7	8.3
ND241	9	5.3	9.0
ND245	10	4.7	7.7
ND246	11	2.3	8.3
ND300	12	2.3	9.0
ND301	13	2.3	8.7
ND376	14	2.7	9.0
ND408	15	2.7	9.0
ND474	16	2.7	9.0+
Pa326	17	2.0	8.3
Pa329	18	2.3	7.7
Pa373	19	.	.
Pa374	20	2.5+	9.0+
CK52	21	2.7	9.0
CK64	22	2.7	9.0
CK69	23	2.7	9.0
CK75	24	3.0	9.0
CG11	25	3.7	9.0
CG12	26	2.3	8.3
CG13	27	2.7	7.3
CG14	28	3.0	9.0
CG15	29	2.7	8.3
CG16	30	6.3	9.0
CG17	31	2.3	9.0
CG18	32	4.3	7.7
CL1	33	3.7	9.0
Ms72	34	7.3	7.0
Ms74	35	2.7	8.7
W117Ht *	36	6.0	9.0
Mean		3.5	8.6
LSD 0.05		1.9	1.2
CV%		33.0	8.4

\* Check entry.

+ Data missing from one replication.



Table 23. Trifluralin tolerance index for 100-300 maturity inbred lines. High values represent high levels of tolerance.

Entry	No.	Incorporation depth 7.5 cm			Incorporation depth 15.0 cm		
		1982#	1983#	Mean	1982#	1983#	Mean
		CM105 *	1	17.8	21.8	19.8	54.1
CO109 *	2	15.3	21.7	18.5	32.0	35.5	33.7
A661	3	47.2	19.0	33.1	43.7	28.3	36.0
A665	4	25.4	41.2	33.3	31.1	39.6	35.3
A666	5	0.8	18.1	9.5	27.4	26.8	27.1
A671	6	34.9	42.6	38.8	43.3	28.1	35.7
ND100	7	22.3	15.8	19.0	16.7	13.4	15.1
ND240	8	32.0	10.7	21.4	18.9	10.6	14.8
ND241	9	24.9	14.5	19.7	19.7	6.3	13.0
ND245	10	39.9	28.8	34.3	34.8	15.5	25.2
ND246	11	36.2	14.1	25.2	39.3	18.1	28.7
ND300	12	41.4	27.5	34.4	49.4	17.3	33.3
ND301	13	14.0	11.4	12.7	31.5	22.2	26.9
ND376	14	18.4	20.5	19.4	27.5	14.7	21.1
ND408	15	9.6	5.3	7.5	21.2	5.3	13.2
ND474	16	9.2	3.7	6.5	25.9	1.2	13.5
Pa326	17	17.9	20.9	19.4	44.3	19.8	32.1
Pa329	18	6.0	18.3	12.1	21.3	16.5	18.9
Pa373	19	0.2	21.6	10.9	1.5	25.9	13.7
Pa374	20	1.4	41.6	21.5	8.3	46.3	27.3
CK52	21	47.9	29.8	38.8	60.7	26.1	43.4
CK64	22	36.8	1.1	19.0	50.3	0.2	25.2
CK69	23	39.1	6.4	22.8	46.5	10.1	28.3
CK75	24	13.5	12.3	12.9	34.9	24.7	29.8
CG11	25	13.7	20.7	17.2	33.3	26.6	29.9
CG12	26	21.8	26.7	24.3	40.5	39.3	39.9
CG13	27	18.7	13.6	16.2	38.9	17.0	28.0
CG14	28	19.7	33.3	26.5	37.4	50.3	43.8
CG15	29	14.8	22.9	18.8	21.9	37.3	29.6
CG16	30	16.7	38.8	27.7	48.6	47.3	47.9
CG17	31	19.0	29.9	24.5	35.4	35.4	35.4
CG18	32	23.7	33.6	28.6	37.2	45.6	41.4
CL1	33	28.5	39.3	33.9	35.6	39.5	37.6
Ms72	34	10.0	24.4	17.2	30.8	23.2	27.0
Ms74	35	12.7	20.8	16.7	24.4	32.3	28.4
W117H† *	36	5.6	12.1	8.9	23.4	10.3	16.8
Mean		21.0	21.8	21.4	33.1	24.8	29.0
LSD 0.05				NS			NS

\* Check entry.

† Data from one replication.

**COOPERATORS CONTRIBUTING TO THE 400-600 MATURITY EVALUATION:**  
(In order of character presentation in the tables)

Cooperator	Site code	Organization and location	Characters
Russell	IA	Iowa State Univ., Ames	Agronomic
Schreiber	IA(H)	Holden's Foundation Seeds, Williamsburg	Agronomic
Bauman	IN	Purdue Univ., West Lafayette	Agronomic
Rossman	MI	Michigan State Univ., East Lansing	Agronomic
Geadelmann	MN	Univ. of Minnesota, St. Paul	Agronomic
Darraha	MO	USDA/Univ. of Missouri, Columbia	Agronomic
Johnson	PA	Pennsylvania State Univ., Univ. Park	Agronomic
Bagnara	CANHAR	Agric. Canada, Harrow, Ontario	Agronomic
Politowski	MO	Pfizer Genetics, St. Louis	Stewart's wilt
Trainor	IL	Northrup, King & Co., St. Joseph	Stewart's wilt
Turner	NE	Funk Seeds International, Clearwater	Goss' wilt
Trainor	MN	Northrup, King & Co., Eden Prarie	Fusarium ear rot
Hart and Rossman	MI	Michigan State Univ., East Lansing	Gibberella ear rot
Hart and Rossman	MI	Michigan State Univ., East Lansing	Eyespot
White	IL	Univ. of Illinios, Urbana	North. leaf spot
Hart and Rossman	MI	Michigan State Univ., East Lansing	South. leaf blight
Johnson	PA	Pennsylvania State Univ., Univ. Park	North. leaf blight
Bockholt and Frederiksen	TX	Texas A&M Univ., Halfway	North. leaf blight
Hart and Rossman	MI	Michigan State Univ., East Lansing	Head smut
Trainor	IL	Northrup, King & Co., St. Joseph	Anthracnose stalk rot
White	IL	Univ. of Illinois	Anthracnose stalk rot
Findley and Louie	OH	USDA/OARDC, Wooster	Anthracnose stalk rot
Trainor	IL	Northrup, King & Co., St. Joseph	Diplodia stalk rot
Turner	KS	Funk Seeds International, Norton	MCDV
Findley and Louie	OH	USDA/OARDC, Wooster	MDMV
Guthrie	IA	USDA	MDMV
Widstrom	GA	USDA	CLN
Penner, Roggenbuck, and Rossman	MI	Michigan State Univ., East Lansing	Virus rating
			European corn borer
			Corn ear worm
			Fall army worm
			Trifluralin tolerance

Table 24. Yield (q/ha) evaluation of the 400-600 maturity inbred lines.

Entry	No.	IA	IA(H)	IN	MI	MN	PA	CANHAR	Mean
A619 *	1	44.3	46.2	49.1	32.2	45.8	24.9	43.9	40.9
A632 *	2	60.7	31.6	69.6	25.3	40.5	35.2	65.6	46.9
B85	3	30.8	42.3	41.3	31.6	42.0	12.1	37.0	33.9
A634	4	38.8	38.1	32.0	22.4	33.0	19.0	35.6	31.3
A635	5	41.9	42.6	30.5	22.7	42.4	14.2	37.0	33.0
A659	6	28.1	25.1	21.9	18.8	15.5	7.7	19.7	19.5
A670	7	58.6	46.8	61.4	26.5	18.5	28.3	40.1	40.0
Mo42	8	55.0	23.1	51.3	43.2	51.3	31.9	57.9	44.8
AY499	9	42.0	40.3	34.6	27.2	30.4	22.9	31.2	32.7
NY562	10	40.7	22.8	30.1	21.5	30.7	23.3	31.2	28.6
NY378	11	27.9	34.8	32.0	22.5	34.4	19.3	22.5	27.6
NY821LERF	12	33.8	57.6	48.4	32.7	57.8	21.0	47.7	42.7
NYD410	13	47.4	39.4	42.8	33.2	52.5	16.6	42.2	39.1
NYRW3	14	41.2	42.0	45.0	25.2	25.2	23.4	40.0	34.6
NYRW20	15	53.3	41.0	41.3	14.7	33.0	9.7	40.8	33.4
NYRW23	16	57.9	36.4	44.6	27.7	42.2	14.8	31.2	36.4
Pa405	17	46.2	49.5	48.4	42.7	41.8	27.1	54.8	44.4
FR19	18	35.3	65.1	42.8	22.9	40.5	22.3	43.2	38.8
CH9	19	27.4	48.5	36.1	22.0	29.8	9.2	20.0	27.6
CH581-13	20	35.8	34.8	52.8	35.3	54.4	21.4	48.1	40.4
CH586-12	21	35.2	24.7	40.5	34.3	37.1	29.2	42.1	34.7
CH591-36	22	36.2	44.6	55.8	35.6	35.1	19.9	40.0	38.2
CH592-46	23	34.6	19.8	34.6	15.7	17.4	20.0	29.2	24.5
CH593-9	24	38.3	27.3	41.7	41.7	44.7	24.2	50.2	38.3
CH606-11	25	41.4	34.8	32.7	20.8	17.9	16.1	36.5	28.6
CH663-8	26	41.2	50.8	37.2	37.3	50.7	35.6	44.3	42.4
B87	27	48.4	41.0	49.8	22.1	41.4	25.8	43.4	38.9
Ms71	28	49.8	44.6	39.4	33.6	46.8	23.5	45.6	40.5
Ms75	29	53.8	32.2	53.9	52.0	63.0	26.3	51.6	47.5
Ms76	30	49.5	36.4	49.5	27.2	27.7	19.2	48.5	36.9
Ms200	31	46.5	33.2	46.9	37.3	48.1	21.9	44.6	39.8
H95	32	42.9	35.5	42.8	23.7	9.5	14.8	33.7	29.0
H99	33	30.7	41.5+	35.7	25.4	36.6	25.1	36.7	32.7
W64A *	34	36.5	12.0	42.4	35.5	51.7	20.9	52.3	35.9
W548	35	45.0	36.4	35.0	17.1	28.2	12.0	36.4	30.0
W552C	36	40.0	52.7	43.9	24.1	61.4	21.9	44.7	41.2
W562	37	41.7	46.2	37.6	20.2	23.1	15.4	40.7	32.1
W570	38	59.1	17.6	46.9	9.3	4.6	8.8	33.2	25.7
CH753-4	39	39.3	46.8	36.8	29.6	47.2	21.9	46.4	38.3
CH671-28	40	63.4	46.8	52.5	33.7	18.5	25.6	48.7	41.3
Mean		43.0	38.3	42.8	28.2	36.8	20.8	41.0	35.8
LSD 0.05		8.9	15.8	9.3	2.6	8.5	7.4	10.2	8.8
CV%		12.7	25.4	13.4	5.6	14.1	21.7	15.3	40.7

\* Check entry.

+ Data missing from one replication.

Table 25. Stand (percent) evaluation of the 400-600 maturity inbred lines.

Entry	No.	IA	IA(H)	IN	MN	PA	CANHAR	Mean
A619 *	1	88.9	71.1	100.0	77.8	100.0	98.9	89.4
A632 *	2	95.6	82.2	100.0	96.3	100.0	98.9	95.5
B85	3	100.0	92.2	100.0	87.0	100.0	100.0	96.5
A634	4	91.1	82.2	100.0	87.0	100.0	100.0	93.4
A635	5	66.7	83.3	100.0	22.2	100.0	100.0	78.7
A659	6	75.6	58.9	100.0	63.0	100.0	98.9	82.7
A670	7	95.6	80.0	100.0	96.3	100.0	100.0	95.3
Mo42	8	91.1	76.7	100.0	94.4	100.0	96.7	93.1
AY499	9	93.3	78.9	100.0	92.6	100.0	97.8	93.8
NY562	10	82.2	85.6	100.0	63.0	100.0	100.0	88.5
NY378	11	95.6	62.2	100.0	79.6	100.0	100.0	89.6
NY821 LERF	12	88.9	77.8	100.0	88.9	100.0	90.0	90.9
NYD410	13	71.1	73.3	100.0	81.5	100.0	95.6	86.9
NYRW3	14	73.3	75.6	100.0	96.3	100.0	100.0	90.9
NYRW20	15	82.2	80.0	100.0	87.0	100.0	98.9	91.4
NYRW23	16	68.9	90.0	100.0	64.8	100.0	91.1	85.8
Pa405	17	80.0	82.2	100.0	72.2	100.0	93.3	88.0
FR19	18	77.8	81.1	100.0	83.3	100.0	98.9	90.2
CH9	19	55.6	81.1	100.0	35.2	100.0	94.4	77.7
CH581-13	20	80.0	72.2	100.0	72.2	100.0	97.8	87.0
CH586-12	21	88.9	74.4	100.0	88.9	100.0	100.0	92.0
CH591-36	22	88.9	72.2	100.0	96.3	100.0	97.8	92.5
CH592-46	23	85.6	65.6	100.0	96.3	100.0	100.0	91.2
CH593-9	24	86.7	97.8	100.0	83.3	100.0	92.2	93.3
CH606-11	25	93.3	64.4	100.0	79.6	100.0	97.8	89.2
CH663-8	26	100.0	84.4	100.0	118.5	100.0	97.8	100.1
B87	27	86.7	84.4	100.0	88.9	100.0	100.0	93.3
Ms71	28	73.3	68.9	100.0	83.3	100.0	97.8	87.2
Ms75	29	77.8	85.6	100.0	96.3	100.0	93.3	92.2
Ms76	30	64.4	85.6	100.0	64.8	100.0	95.6	85.1
Ms200	31	77.8	56.7	100.0	77.8	100.0	98.9	85.2
H95	32	84.4	85.6	100.0	77.8	100.0	100.0	91.3
H99	33	66.7	65.6	100.0	68.5	100.0	93.3	82.3
W64A *	34	95.6	68.9	100.0	90.7	100.0	96.7	92.0
W548	35	88.9	84.4	100.0	85.2	100.0	100.0	93.1
W552C	36	75.6	85.6	100.0	94.4	100.0	88.9	90.7
W562	37	93.3	85.6	100.0	77.8	100.0	100.0	92.8
W570	38	68.9	34.4	100.0	59.3	100.0	100.0	77.1
CH753-4	39	66.7	76.7	100.0	14.8	100.0	98.9	76.2
CH671-28	40	73.3	77.8	100.0	83.3	100.0	98.9	88.9
Mean		82.3	76.8	100.0	79.2	100.0	97.5	89.3
LSD 0.05		18.5	16.6	NS	23.7	NS	NS	11.2
CV%		13.8	13.3		18.4			19.1

\* Check entry.

Table 26. Root lodging (percent) evaluation of the 400-600 maturity inbred lines.

Entry	No.	IA	IA(H)	IN	MN	PA	CANHAR	Mean
A619 *	1	3.8	11.6	0.0	17.7	0.0	0.0	5.5
A632 *	2	2.2	0.0	0.0	15.5	0.0	0.0	2.9
B85	3	18.9	4.9	0.0	52.0	0.0	0.0	12.6
A634	4	0.0	0.0	0.0	0.0	1.1	1.1	0.4
A635	5	0.0	0.0	0.0	8.3	0.0	1.1	1.6
A659	6	1.7	0.0	0.7	10.1	0.0	7.8	3.4
A670	7	4.8	0.0	0.0	0.0	1.1	0.0	1.0
Mo42	8	0.0	0.0	0.0	14.3	0.0	0.0	2.4
AY499	9	1.2	27.1	0.0	0.0	0.0	0.0	4.7
NY562	10	10.3	21.5	0.0	38.4	0.0	4.4	12.4
NY378	11	30.6	0.0	0.7	2.8	5.6	1.1	6.8
NY821LERF	12	27.2	12.3	0.0	4.5	1.1	3.6	8.1
NYD410	13	11.1	0.0	3.0	23.0	2.2	0.0	6.5
NYRW3	14	1.2	0.0	0.0	12.3	0.0	1.1	2.4
NYRW20	15	1.3	0.0	0.0	1.0	0.0	0.0	0.4
NYRW23	16	0.0	0.0	0.0	22.9	0.0	0.0	3.8
Pa405	17	6.7	14.3	0.0	32.7	0.0	0.0	9.0
FR19	18	10.8	1.4	0.0	28.4	0.0	0.0	6.8
CH9	19	7.9	2.8	0.0	15.2	0.0	12.8	6.4
CH581-13	20	26.5	19.6	5.9	56.4	10.0	13.6	22.0
CH586-12	21	0.0	0.0	0.7	0.0	0.0	1.1	0.3
CH591-36	22	10.3	0.0	0.0	3.7	0.0	1.1	2.5
CH592-46	23	13.1	14.2	0.0	63.9	0.0	0.0	15.2
CH593-9	24	1.3	2.3	0.0	30.0	2.2	0.0	6.0
CH606-11	25	3.6	0.0	0.0	69.1	0.0	1.1	12.3
CH663-8	26	3.3	1.3	0.0	8.2	0.0	0.0	2.1
B87	27	0.0	20.5	0.7	37.0	0.0	1.1	9.9
Ms71	28	0.0	9.6	0.0	0.0	0.0	0.0	1.6
Ms75	29	1.5	0.0	0.0	38.0	1.1	6.7	7.9
Ms76	30	0.0	1.2	0.7	33.9	0.0	0.0	6.0
Ms200	31	41.0	0.0	0.0	18.6	0.0	0.0	9.9
H95	32	1.2	0.0	0.0	20.4	1.1	0.0	3.8
H99	33	0.0	1.4	0.0	0.0	0.0	0.0	0.2
W64A *	34	2.4	14.9	0.0	6.0	0.0	0.0	3.9
W548	35	0.0	1.2	0.0	3.9	0.0	0.0	0.9
W552C	36	9.0	2.3	0.0	18.0	0.0	0.0	4.9
W562	37	0.0	13.6	0.0	2.1	0.0	0.0	2.6
W570	38	0.0	0.0	0.0	16.1	0.0	0.0	2.7
CH753-4	39	3.6	0.0	1.5	16.7	1.1	0.0	3.8
CH671-28	40	29.9	0.0	0.0	27.7	0.0	0.0	9.6
Mean		7.2	5.0	0.4	19.2	0.7	1.4	5.6
LSD 0.05		15.9	14.4	1.6	23.4	2.3	NS	9.9
CV%		136.9	178.8	279.4	75.1	216.3		271.1

\* Check entry.

Table 27. Stalk lodging (percent) evaluation of the 400-600 maturity Inbred lines.

Entry	No.	IA	IA(H)	IN	MN	PA	CANHAR	Mean
A619 *	1	4.9	19.2	17.0	7.1	4.4	0.0	8.8
A632 *	2	9.5	0.0	37.0	0.0	2.2	1.1	8.3
B85	3	18.9	76.5	6.7	0.0	2.2	0.0	17.4
A634	4	15.4	23.1	18.5	8.1	0.0	1.1	11.0
A635	5	1.7	52.8	8.9	0.0	1.1	1.1	10.9
A659	6	3.2	8.9	12.6	2.4	8.9	3.4	6.6
A670	7	10.4	2.7	2.2	0.0	4.4	1.1	3.5
Mo42	8	8.4	44.8	11.9	5.6	0.0	0.0	11.8
AY499	9	0.0	36.2	8.9	0.0	1.1	1.1	7.9
NY562	10	6.4	27.5	2.2	0.0	1.1	1.1	6.4
NY378	11	21.1	64.5	49.6	37.4	28.9	1.1	33.8
NY821LERF	12	11.5	24.2	42.2	43.2	10.0	3.4	22.4
NYD410	13	2.1	0.0	13.3	0.0	0.0	0.0	2.6
NYRW3	14	1.9	8.0	7.4	0.0	0.0	1.1	3.1
NYRW20	15	5.6	80.5	42.2	2.0	3.3	3.3	22.8
NYRW23	16	5.8	16.4	20.7	12.6	14.4	7.4	12.9
Pa405	17	10.9	6.8	34.1	5.8	0.0	1.2	9.8
FR19	18	2.1	76.2	23.7	7.4	2.2	1.1	18.8
CH9	19	5.8	23.8	1.5	13.1	6.7	0.0	8.5
CH581-13	20	2.5	37.4	5.9	6.4	1.1	0.0	8.9
CH586-12	21	1.3	82.0	3.0	0.0	7.8	1.1	15.8
CH591-36	22	0.0	92.5	0.0	0.0	0.0	0.0	15.4
CH592-46	23	6.6	8.0	9.6	0.9	3.3	0.0	4.8
CH593-9	24	24.7	79.5	65.2	43.3	1.1	0.0	35.6
CH606-11	25	1.2	8.9	8.1	0.0	1.1	0.0	3.2
CH663-8	26	5.6	43.4	20.0	4.7	11.1	5.6	15.1
B87	27	6.4	2.8	11.9	0.0	3.3	1.1	4.3
Ms71	28	4.5	1.7	3.7	0.0	0.0	0.0	1.7
Ms75	29	1.9	63.3	4.4	0.0	1.1	0.0	11.8
Ms76	30	0.0	47.9	2.2	1.4	1.1	1.1	9.0
Ms200	31	35.4	39.4	54.1	45.5	17.8	14.5	34.5
H95	32	0.0	24.4	0.7	0.0	0.0	0.0	4.2
H99	33	17.1	15.3	11.9	4.2	2.2	1.1	8.6
W64A *	34	5.7	12.0	14.1	17.0	3.3	0.0	8.7
W548	35	9.7	0.0	11.9	0.0	2.2	6.7	5.1
W552C	36	8.8	11.6	2.2	0.0	0.0	1.1	4.0
W562	37	3.6	35.0	3.0	0.0	0.0	0.0	6.9
W570	38	0.0	2.1	1.5	0.0	0.0	0.0	0.6
CH753-4	39	0.0	63.7	9.6	0.0	0.0	0.0	12.2
CH671-28	40	14.8	28.5	38.5	2.1	23.3	16.9	20.7
Mean		7.4	32.3	16.1	6.8	4.3	2.0	11.5
LSD 0.05		15.3	24.7	13.1	12.5	10.2	4.9	14.9
CV%		127.4	47.0	50.1	114.2	146.2	154.8	199.1

\* Check entry.

Table 28. Usable ears (per 100 plants) evaluation of the 400-600 maturity inbred lines.

Entry	No.	IA	PA	CANHAR	Mean
A619 *	1	96.7	98.3	100.0	98.3
A632 *	2	146.7	150.0	196.7	164.4
B85	3	96.7	83.3	101.7	93.9
A634	4	110.0	98.3	101.7	103.3
A635	5	100.0	93.3	101.7	98.3
A659	6	110.0	80.0	91.7	93.9
A670	7	120.0	86.7	90.0	98.9
Mo42	8	136.7	100.0	156.7	131.1
AY499	9	93.3	100.0	100.0	97.8
NY562	10	96.7	98.3	95.0	96.7
NY378	11	130.0	96.7	131.7	119.4
NY821LERF	12	106.7	100.0	108.3	105.0
NYD410	13	120.0	95.0	96.7	103.9
NYRW3	14	100.0	98.3	91.7	96.7
NYRW20	15	96.7	70.0	100.0	88.9
NYRW23	16	126.7	83.3	105.0	105.0
Pa405	17	103.3	93.3	116.7	104.4
FR19	18	110.0	95.0	113.3	106.1
CH9	19	93.3	68.3	76.7	79.4
CH581-13	20	96.7	98.3	100.0	98.3
CH586-12	21	96.7	101.7	125.0	107.8
CH591-36	22	86.7	98.3	98.3	94.4
CH592-46	23	100.0	100.0	95.0	98.3
CH593-9	24	96.7	93.3	103.3	97.8
CH606-11	25	90.0	91.7	91.7	91.1
CH663-8	26	106.7	101.7	136.7	115.0
B87	27	116.7	100.0	130.0	115.6
Ms71	28	93.3	100.0	101.7	98.3
Ms75	29	100.0	100.0	100.0	100.0
Ms76	30	106.7	90.0	98.3	98.3
Ms200	31	96.7	90.0	100.0	95.6
H95	32	103.3	90.0	118.3	103.9
H99	33	103.3	100.0	116.7	106.7
W64A *	34	93.3	95.0+	100.0	96.2
W548	35	153.3	100.0	120.0	124.4
W552C	36	100.0	93.3	96.7	96.7
W562	37	103.3	88.3	100.0	97.2
W570	38	146.7	81.7	118.3	115.6
CH753-4	39	110.0	100.0	125.0	111.7
CH671-28	40	106.7	96.7	103.3	102.2
Mean		107.5	95.0	108.3	103.8
LSD 0.05		26.1	17.9	16.2	18.7
CV%		14.9	11.6	9.1	19.1

\* Check entry.

+ Data missing from one replication.

Table 29. Plant height (cm) evaluation of the 400-600 maturity Inbred lines.

Entry	No.	IA	IA(H)	IN	MI	MN	MO	PA	CANHAR	Mean
A619 *	1	117.3	170.3	195.0	143.3	136.0	153.3	152.3	178.7	155.8
A632 *	2	192.3	142.3	215.0	170.0	166.7	173.3	192.3	221.7	184.2
B85	3	149.3	199.7	216.7	151.7	144.7	158.3	151.7	213.0	173.1
A634	4	162.7	198.3	191.7	151.7	147.7	141.7	162.3	184.3	167.5
A635	5	139.7	164.7	170.0	128.3	134.7	130.0	150.0	178.7	149.5
A659	6	153.7	156.0	205.0	163.3	156.0	148.3	186.3	200.0	171.1
A670	7	165.0	174.7	220.0	171.7	157.0	175.0	178.3	204.3	180.8
Mo42	8	176.7	183.7	230.0	175.0	172.3	163.3	188.0	224.3	189.2
AY499	9	155.0	206.3	206.7	166.7	139.3	145.0	181.7	207.3	176.0
NY562	10	138.7	179.0	210.0	168.3	151.7	151.7	184.3	205.3	173.6
NY378	11	153.3	169.3	173.3	148.3	136.0	155.0	172.3	182.0	161.2
NY821LERF	12	124.3	227.7	190.0	131.7	131.7	135.0	134.0	167.7	155.3
NYD410	13	145.3	121.7	211.7	138.3	143.7	136.7	147.7	192.0	154.6
NYRW3	14	153.3	143.7	203.3	153.3	144.3	151.7	170.7	191.0	163.9
NYRW20	15	176.3	186.3	195.0	150.0	151.7	153.3	151.3	194.3	169.8
NYRW23	16	156.7	186.7	188.3	146.7	135.3	141.7	150.7	187.0	161.6
Pa405	17	158.7	194.3	185.0	148.3	137.7	145.0	159.3	189.7	164.8
FR19	18	160.7	217.0	193.3	155.0	152.7	153.3	170.0	195.7	174.7
CH9	19	147.0	188.3	206.7	160.0	147.7	155.0	184.7	220.3	176.2
CH581-13	20	152.7	188.3	218.3	173.3	170.0	176.7	176.0	218.3	184.2
CH586-12	21	118.7	181.7	151.7	128.3	115.0	123.3	130.0	154.0	137.8
CH591-36	22	147.3	158.7	196.7	160.0	143.7	168.3	190.3	194.0	169.9
CH592-46	23	163.0	193.0	191.7	158.3	146.0	158.3	186.7	189.7	173.3
CH593-9	24	152.3	183.7	186.7	158.3	147.3	146.7	154.7	199.7	166.2
CH606-11	25	165.0	168.0	220.0	168.3	161.3	156.7	174.0	203.3	177.1
CH663-8	26	161.0	167.3	211.7	165.0	151.3	156.7	190.0	193.0	174.5
B87	27	159.0	200.3	221.7	161.7	153.3	151.7	175.7	223.3	180.8
Ms71	28	155.0	158.7	173.3	150.0	135.7	128.3	161.3	177.7	155.0
Ms75	29	154.7	149.7	196.7	143.3	150.7	138.3	169.3	185.7	161.0
Ms76	30	150.0	198.7	163.3	136.7	132.0	128.3	132.7	169.0	151.3
Ms200	31	133.3	187.7	171.7	138.3	129.0	140.0	151.3	172.0	152.9
H95	32	148.7	171.7	200.0	150.0	144.3	143.3	158.3	200.3	164.6
H99	33	98.3	164.3	136.7	106.7	107.0	108.3	119.0	129.0	121.2
W64A *	34	129.3	189.7	176.7	130.0	133.0	130.0	146.0	174.0	151.1
W548	35	162.0	167.7	175.0	138.3	140.3	143.3	163.0	192.3	160.3
W552C	36	119.7	196.3	165.0	121.7	134.3	131.7	160.7	154.7	148.0
W562	37	165.7	198.3	173.3	130.0	131.7	150.0	165.0	181.0	161.9
W570	38	174.7	151.7	205.0	145.0	146.3	156.7	183.0	216.0	172.3
CH753-4	39	133.3	180.7	151.7	151.7	122.0	131.7	145.3	165.3	147.7
CH671-28	40	192.0	165.0	230.0	180.0	165.3	173.3	202.3	236.0	193.0
Mean		151.4	178.3	193.1	150.4	143.7	147.7	165.1	191.6	165.2
LSD 0.05		11.9	11.7	11.2	17.2	8.8	13.1	19.2	16.1	13.0
CV%		4.8	4.0	3.4	7.0	3.8	5.5	7.2	5.2	13.9

\* Check entry.



Table 30. Ear height (cm) evaluation of the 400-600 maturity inbred lines.

Entry	No.	IA	IA(H)	IN	MI	MN	MO	PA	CANHAR	Mean
A619 *	1	36.4	80.0	46.3	50.0	41.0	40.0	51.7	51.0	49.5
A632 *	2	94.9	49.7	89.0	86.7	83.3	81.7	91.7	94.0	83.9
B85	3	64.1	88.3	71.0	75.0	71.7	68.3	76.0	81.0	74.4
A634	4	73.5	109.3	76.0	71.7	68.3	60.0	77.3	79.0	76.9
A635	5	57.7	85.3	62.3	56.7	56.0	50.0	63.3	76.7	63.5
A659	6	52.5	70.7	60.7	73.3	60.0	53.3	81.0	77.0	66.1
A670	7	62.6	74.3	65.7	71.7	61.3	60.0	72.0	61.7	66.2
Mo42	8	66.9	76.7	74.3	78.3	72.7	56.7	76.0	80.3	72.7
AY499	9	58.3	97.0	72.7	76.7	56.7	48.3	82.3	71.0	70.4
NY562	10	47.0	89.7	70.0	75.0	58.7	46.7	75.0	61.3	65.4
NY378	11	68.0	88.0	65.7	65.0	54.0	56.7	81.0	63.7	67.7
NY821LERF	12	42.6	110.7	56.0	56.7	47.7	40.0	51.0	51.0	57.0
NYD410	13	50.7	40.3	65.7	63.3	50.7	40.0	63.3	51.0	53.1
NYRW3	14	58.5	75.7	71.7	71.7	59.0	51.7	73.0	68.3	66.2
NYRW20	15	74.9	84.3	81.3	76.7	70.3	58.3	66.0	74.3	73.3
NYRW23	16	62.9	83.3	62.3	66.7	57.3	56.7	67.0	63.3	64.9
Pa405	17	74.8	91.7	78.3	78.3	66.7	73.3	77.3	87.0	78.4
FR19	18	72.9	116.0	74.3	68.3	67.3	63.3	80.0	78.3	77.6
CH9	19	38.4	85.0	54.3	55.0	34.7	41.7	60.0	56.3	53.2
CH581-13	20	51.9	92.3	63.0	71.7	67.7	66.7	66.0	64.7	68.0
CH586-12	21	45.5	85.0	59.0	61.7	54.7	50.0	62.3	70.3	61.1
CH591-36	22	52.7	84.7	65.7	70.0	53.3	65.0	78.7	71.7	67.7
CH592-46	23	75.0	72.7	93.7	83.3	83.7	71.7	103.7	80.3	83.0
CH593-9	24	61.6	81.0	58.0	78.3	66.3	60.0	69.0	75.3	68.7
CH606-11	25	72.0	78.0	86.7	85.0	77.7	58.3	79.0	80.7	77.2
CH663-8	26	72.0	71.0	84.0	73.3	69.7	63.3	95.0	73.7	75.2
B87	27	58.8	80.3	73.7	68.3	66.0	56.7	75.3	77.0	69.5
Ms71	28	61.0	85.0	58.7	60.0	48.7	48.3	70.7	52.3	60.6
Ms75	29	66.7	49.7	70.0	66.7	71.3	48.3	76.0	74.0	65.3
Ms76	30	64.3	85.0	70.0	65.0	63.7	58.3	61.7	68.7	67.1
Ms200	31	63.8	82.0	67.7	73.3	64.3	66.7	74.7	78.3	71.3
H95	32	56.9	91.7	56.3	65.0	63.3	53.3	68.3	68.3	65.4
H99	33	25.9	46.7	58.3	41.7	37.3	28.3	51.7	39.0	41.1
W64A *	34	46.3	56.3	60.3	61.7	56.3	45.0	63.0	47.7	54.6
W548	35	84.1	68.3	71.7	80.0	75.3	73.3	79.3	82.3	76.8
W552C	36	33.5	79.3	48.3	41.7	51.3	35.0	52.7	48.3	48.8
W562	37	75.8	82.0	75.7	68.3	58.0	66.7	79.3	78.7	73.1
W570	38	72.1	68.0	89.3	71.7	66.0	70.0	83.0	81.3	75.2
CH753-4	39	59.8	81.0	58.7	81.7	53.7	58.3	72.0	72.0	67.1
CH671-28	40	89.3	73.3	84.0	95.0	85.3	78.3	103.0	95.0	87.9
Mean		61.2	79.7	68.8	69.5	61.8	56.7	73.2	70.2	67.6
LSD 0.05		6.0	12.7	16.2	13.0	6.6	12.2	16.4	14.0	8.5
CV%		6.1	9.8	14.5	11.5	6.6	13.2	13.7	12.3	22.3

\* Check entry.

Table 31. Moisture (percent) evaluation of the 400-600 maturity inbred lines.

Entry	No.	IA	IA(H)	IN	MI	MN	PA	CANHAR	Mean
A619 *	1	18.2	18.5	19.1	45.6	33.5	51.1	30.2	30.9
A632 *	2	12.1	18.8	15.4	44.0	31.7	49.1	24.6	28.0
B85	3	22.8	16.2	17.1	38.5	24.6	51.9	32.3	29.1
A634	4	11.2	17.0	14.0	43.3	25.0	47.1	21.3	25.6
A635	5	6.1	15.5	14.0	35.4	23.9	45.0	14.7	22.1
A659	6	8.2	14.9	14.4	42.8	30.9	58.8	32.7	29.0
A670	7	23.4	18.1	21.2	45.6	34.7	53.1	37.7	33.4
Mo42	8	14.0	16.3	15.0	36.4	26.3	45.8	24.7	25.5
AY499	9	14.4	19.2	17.3	36.8	28.5	43.5	29.0	27.0
NY562	10	11.9	19.4	16.1	44.6	26.7	43.7	32.3	27.8
NY378	11	8.5	16.4	15.0	26.9	17.3	28.9	19.2	18.9
NY821 LERF	12	9.4	21.5	15.3	29.1	21.1	30.5	19.1	20.9
NYD410	13	19.8	18.0	17.1	43.3	27.2	54.3	29.3	29.8
NYRW3	14	14.9	17.7	18.5	38.7	32.2	43.2	29.9	27.9
NYRW20	15	20.8	18.1	16.7	53.5	33.5	63.3	34.8	34.4
NYRW23	16	15.4	13.3	16.6	45.8	35.7	51.5	32.2	30.1
Pa405	17	8.0	17.6	14.9	28.8	22.7	40.8	17.7	21.5
FR19	18	6.6	18.2	14.1	41.2	20.2	37.1	14.0	21.6
CH9	19	6.9	21.5	15.3	41.1	22.1	45.5	29.1	26.0
CH581-13	20	8.1	18.5	16.2	37.3	25.0	44.5	25.1	25.0
CH586-12	21	9.1	17.4	15.1	33.7	28.9	42.0	16.6	23.3
CH591-36	22	8.9	19.0	16.0	37.1	28.9	49.7	25.6	26.5
CH592-46	23	6.8	17.5	15.2	46.7	29.2	53.1	23.3	27.4
CH593-9	24	7.2	15.2	15.2	24.2	19.9	36.1	18.2	19.4
CH606-11	25	8.2	20.8	18.3	45.8	36.3	48.6	30.2	29.7
CH663-8	26	10.4	17.2	14.8	31.0	24.5	40.6	23.6	23.2
B87	27	16.9	15.9	19.0	41.7	32.0	47.6	29.4	28.9
Ms71	28	16.7	24.5	14.6	38.0	27.7	47.0	28.2	28.1
Ms75	29	16.8	15.8	15.8	31.5	27.4	47.3	27.1	26.0
Ms76	30	26.1	16.7	18.3	40.3	37.6	55.4	38.8	33.3
Ms200	31	14.0	16.1	16.6	34.1	26.2	41.1	21.2	24.2
H95	32	13.8	17.0	15.2	43.9	32.2	58.9	31.2	30.3
H99	33	11.9	23.8	16.2	39.9	26.0	39.0	26.9	26.4
W64A *	34	10.9	17.5	14.7	34.8	23.4	42.2	28.8	24.6
W548	35	7.8	17.9	14.8	43.8	35.4	54.1	30.9	29.3
W552C	36	16.7	23.0	15.8	39.2	26.6	39.7	26.4	26.8
W562	37	15.8	18.7	14.7	44.4	36.9	53.8	30.5	30.7
W570	38	9.8	15.9	14.8	45.5	23.2	50.6	31.3	27.3
CH753-4	39	11.0	15.1	14.1	33.9	21.2	42.1	17.4	22.1
CH671-28	40	16.7	22.2	18.8	41.1	34.0	50.3	31.7	30.7
Mean		12.9	18.0	16.0	39.2	28.0	46.7	26.8	26.8
LSD 0.05		4.5	3.9	1.2	2.0	5.6	9.4	4.8	4.1
CV%		21.3	13.2	4.4	3.1	12.4	12.4	11.1	25.6

\* Check entry.

Table 32. Days-to-tassel evaluation of the 400-600 maturity inbred lines.

Entry	No.	IA	IA(H)	MN	MO	PA	CANHAR	Mean
A619 *	1	86.7	69.0	81.3	77.3	73.7	56.0	74.0
A632 *	2	90.7	62.0	83.0	79.0	79.0	71.0	77.4
B85	3	87.7	64.7	80.7	76.3	77.7	56.0	73.8
A634	4	89.0	66.0	82.0	78.7	76.3	68.0	76.7
A635	5	87.0	69.7	82.3	80.0	74.7	69.0	77.1
A659	6	91.0	65.3	85.0	78.3	79.7	73.0	78.7
A670	7	92.0	68.0	84.3	79.3	78.3	69.0	78.5
Mo42	8	89.0	68.7	81.0	77.0	74.0	68.0	76.3
AY499	9	87.7	66.3	81.7	77.3	77.3	60.0	75.1
NY562	10	86.3	65.7	81.3	78.7	73.7	60.0	74.3
NY378	11	85.7	68.3	78.0	76.0	73.0	54.0	72.5
NY821 LERF	12	84.7	68.7	78.7	76.0	72.7	55.0	72.6
NYD410	13	90.3	64.0	84.0	78.3	80.0	69.0	77.6
NYRW3	14	88.3	68.0	82.7	78.0	74.3	68.0	76.6
NYRW20	15	90.0	68.7	84.3	81.3	84.0	69.0	79.6
NYRW23	16	90.3	65.3	82.0	80.0	82.3	73.0	78.8
Pa405	17	88.7	65.3	81.3	79.7	78.7	64.0	76.3
FR19	18	88.7	67.0	82.3	79.3	81.0	60.0	76.4
CH9	19	84.3	68.0	80.0	76.3	74.0	60.0	73.8
CH581-13	20	86.0	64.0	80.3	78.3	74.0	64.0	74.4
CH586-12	21	86.7	67.3	83.7	78.7	74.7	56.0	74.5
CH591-36	22	87.0	66.3	80.3	77.7	75.0	56.0	73.7
CH592-46	23	87.7	65.3	81.3	78.7	77.7	60.0	75.1
CH593-9	24	83.7	63.3	78.0	75.3	72.3	54.0	71.1
CH606-11	25	87.7	69.3	82.3	77.3	77.7	56.0	75.1
CH663-8	26	88.3	66.0	80.7	76.0	77.0	56.0	74.0
B87	27	89.0	67.0	83.3	79.0	76.0	68.0	77.1
Ms71	28	90.0	69.7	82.3	77.7	74.7	64.0	76.4
Ms75	29	85.7	63.7	80.3	76.0	72.7	56.0	72.4
Ms76	30	90.3	68.0	82.3	81.7	78.3	72.3	78.8
Ms200	31	87.3	69.0	81.3	79.0	75.0	64.0	75.9
H95	32	94.3	69.7	87.3	81.7	85.3	73.0	81.9
H99	33	85.7	63.0	81.3	76.7	73.0	56.0	72.6
W64A *	34	87.0	63.7	81.0	76.3	74.3	53.0	72.6
W548	35	93.3	71.3	86.3	81.7	81.3	72.3	81.1
W552C	36	82.7	67.3	77.0	74.0	72.0	52.7	70.9
W562	37	94.0	68.7	86.3	82.0	83.3	73.0	81.2
W570	38	93.3	66.0	88.0	78.3	82.0	73.0	80.1
CH753-4	39	87.0	66.7	80.7	76.7	73.7	56.0	73.4
CH671-28	40	92.7	69.7	85.3	79.0	80.7	69.0	79.4
Mean		88.4	66.8	82.1	78.2	76.9	63.2	75.9
LSD 0.05		2.3	2.1	1.7	2.2	2.4	5.5	3.1
CV%		1.6	2.0	1.3	1.8	1.9	5.4	6.2

\* Check entry.

Table 33. Days-to-silk evaluation of the 400-600 maturity inbred lines.

Entry	No.	IA	IA(H)	IN	MI	MN	PA	CANHAR	Mean
A619 *	1	87.3	70.0	76.7	85.3	82.0	79.7	69.0	78.6
A632 *	2	92.3	63.7	76.3	87.3	83.3	82.3	71.0	79.5
B85	3	90.3	64.0	77.0	83.7	81.7	82.0	69.0	78.2
A634	4	89.7	66.3	75.7	84.3	82.3	81.0	70.0	78.5
A635	5	88.0	70.0	76.7	84.7	83.0	81.7	69.0	79.0
A659	6	92.3	66.0	.	86.3	86.0	85.7	73.0	81.6
A670	7	93.7	69.7	77.0	88.7	85.7	83.0	72.3	81.4
Mo42	8	91.7	70.0	76.0	85.0	83.0	80.7	69.0	79.3
AY499	9	89.0	69.7	77.3	82.7	85.3	79.7	69.0	79.0
NY562	10	90.3	68.0	.	87.0	84.3	83.7	70.0	80.6
NY378	11	85.0	68.3	72.3	81.3	78.7	74.3	56.0	73.7
NY821LERF	12	84.3	69.3	71.3	80.7	78.7	74.3	56.0	73.5
NYD410	13	91.3	64.7	76.7	83.0	84.3	84.0	71.0	79.3
NYRW3	14	92.3	69.3	78.0	86.3	85.7	81.3	71.7	80.7
NYRW20	15	93.3	69.7	76.0	90.0	85.0	90.0	71.7	82.2
NYRW23	16	91.0	68.0	76.7	84.0	83.3	84.3	73.0	80.0
Pa405	17	89.3	64.7	76.0	82.7	81.7	79.3	69.0	77.5
FR19	18	89.0	67.7	75.7	84.0	84.3	81.7	68.0	78.6
CH9	19	86.3	69.7	71.7	81.3	80.3	82.0	69.0	77.2
CH581-13	20	90.0	63.3	76.7	83.3	83.3	81.7	71.0	78.5
CH586-12	21	89.7	66.7	76.0	82.0	85.7	80.7	68.0	78.4
CH591-36	22	93.7	68.3	76.0	82.3	83.3	82.0	70.0	79.4
CH592-46	23	91.3	71.0	77.3	88.0	83.3	83.0	68.0	80.3
CH593-9	24	83.3	62.7	68.3	80.7	79.0	76.0	56.0	72.3
CH606-11	25	90.7	70.3	.	89.0	86.3	84.7	69.0	81.7
CH663-8	26	87.0	66.0	71.7	82.7	80.3	77.3	56.0	74.4
B87	27	90.7	68.0	77.3	85.7	84.0	82.0	70.0	79.7
Ms71	28	92.3	70.3	77.0	85.3	84.0	80.7	71.0	80.1
Ms75	29	86.3	62.7	69.7	81.0	80.0	78.7	56.0	73.5
Ms76	30	93.0	68.0	77.0	86.3	84.7	85.3	72.3	81.0
Ms200	31	92.0	71.3	74.7	82.7	82.7	80.3	69.0	79.0
H95	32	95.0	71.7	.	90.7	88.0	89.7	73.7	84.8
H99	33	86.0	65.0	75.0	82.3	83.0	75.7	56.0	74.7
W64A *	34	87.3	68.3	70.7	81.0	81.7	78.3	56.0	74.8
W548	35	94.0	73.0	76.0++	86.7	87.3	83.7	73.0	82.6
W552C	36	84.3	69.3	69.7	83.3	78.7	75.0	56.0	73.8
W562	37	95.0	70.7	77.0++	89.3	88.0	86.7	73.0	83.4
W570	38	95.7	67.3	.	90.7	88.7	87.7	73.7	83.9
CH753-4	39	87.7	67.0	73.7	82.3	81.3	81.0	68.0	77.3
CH671-28	40	93.0	69.3	77.0++	86.7	86.3	84.0	71.7	81.6
Mean		90.1	68.0	75.0	84.8	83.4	81.6	67.6	78.7
LSD 0.05		2.5	2.0	1.2	1.9	2.0	2.7	2.0	2.4
CV%		1.7	1.8	1.3	1.4	1.5	2.0	1.8	5.0

\* Check entry.

++ Data missing from two replications.

Table 34. Ear row number evaluation of the 400-600 maturity inbred lines.

Entry	No.	IA	PA	CANHAR	Mean
A619 *	1	16.9	16.1	16.7	16.6
A632 *	2	14.3	13.7	14.7	14.2
B85	3	13.0	12.6	14.1	13.2
A634	4	14.5	14.8	14.9	14.8
A635	5	14.1	13.9	14.5	14.2
A659	6	14.7	14.9	15.3	15.0
A670	7	14.3	14.1	14.9	14.4
Mo42	8	11.3	10.8	11.4	11.2
AY499	9	13.8	13.7	14.1	13.9
NY562	10	14.3	14.2	14.1	14.2
NY378	11	11.5	11.5	12.1	11.7
NY821LERF	12	11.9	12.5	13.7	12.7
NYD410	13	15.9	14.7	16.9	15.8
NYRW3	14	14.4	13.5	14.3	14.1
NYRW20	15	15.1	13.7	14.3	14.4
NYRW23	16	15.5	15.0	15.1	15.2
Pa405	17	15.2	14.1	15.2	14.8
FR19	18	16.9	17.1	18.0	17.3
CH9	19	16.8	17.7	18.6	17.7
CH581-13	20	17.9	16.9	18.3	17.7
CH586-12	21	17.5	17.3	18.5	17.8
CH591-36	22	18.5	18.5	18.9	18.6
CH592-46	23	13.0	13.2	14.1	13.4
CH593-9	24	15.5	15.0	15.5	15.3
CH606-11	25	17.4	16.9	19.1	17.8
CH663-8	26	12.6	12.3	12.5	12.5
B87	27	12.2	12.5	12.9	12.5
Ms71	28	15.5	14.9	16.1	15.5
Ms75	29	15.8	15.5	16.5	15.9
Ms76	30	17.4	17.4	17.4	17.4
Ms200	31	17.1	16.9	18.1	17.3
H95	32	15.5	15.7	16.1	15.8
H99	33	11.4	12.0	11.7	11.7
W64A *	34	16.1	15.7	15.7	15.8
W548	35	14.3	15.0	16.1	15.1
W552C	36	18.9	19.5	19.9	19.4
W562	37	15.3	16.3	16.2	15.9
W570	38	13.7	14.0	14.6	14.1
CH753-4	39	12.7	12.9	13.9	13.2
CH671-28	40	18.5	18.0	19.3	18.6
Mean		15.0	14.9	15.6	15.2
LSD 0.05		0.8	0.8	0.7	0.7
CV%		3.1	3.4	2.9	4.8

\* Check entry.

Table 35. Ear length (cm) evaluation of the 400-600 maturity inbred lines.

Entry	No.	IA	PA	CANHAR	Mean
A619 *	1	13.8	12.5	14.5	13.6
A632 *	2	13.4	13.5	14.2	13.7
B85	3	15.1	12.7	15.5	14.5
A634	4	12.8	11.9	14.8	13.2
A635	5	16.5	12.3	15.7	14.8
A659	6	11.7	10.3	11.1	11.0
A670	7	19.3	15.8	16.2	17.1
Mo42	8	19.0	16.4	18.9	18.1
AY499	9	12.0	11.3	12.5	11.9
NY562	10	18.5	17.0	17.1	17.5
NY378	11	14.1	13.5	11.7	13.1
NY821LERF	12	19.4	19.2	19.5	19.4
NYD410	13	15.4	12.5	16.6	14.8
NYRW3	14	13.3	11.5	13.4	12.7
NYRW20	15	16.9	12.4	15.8	15.0
NYRW23	16	17.9	15.8	16.1	16.6
Pa405	17	14.4	12.0	14.3	13.6
FR19	18	13.8	13.3	15.1	14.1
CH9	19	10.2	8.8	9.4	9.5
CH581-13	20	12.3	11.3	12.4	12.0
CH586-12	21	12.6	11.9	12.4	12.3
CH591-36	22	13.5	12.3	13.1	13.0
CH592-46	23	18.4	14.1	15.0	15.8
CH593-9	24	13.7	11.8	14.9	13.5
CH606-11	25	15.5	12.7	13.9	14.0
CH663-8	26	14.9	14.3	14.1	14.5
B87	27	18.2	15.5	16.5	16.7
Ms71	28	16.4	13.2	15.4	15.0
Ms75	29	14.3	12.7	15.7	14.2
Ms76	30	15.8	14.4	16.3	15.5
Ms200	31	12.2	11.8	13.7	12.5
H95	32	15.0	12.5	14.5	14.0
H99	33	13.9	13.0	14.1	13.7
W64A *	34	13.2	11.0	14.4	12.9
W548	35	14.7	12.9	14.4	14.0
W552C	36	11.2	10.2	11.7	11.0
W562	37	15.7	12.5	15.3	14.5
W570	38	16.7	13.8	13.4	14.7
CH753-4	39	15.6	12.0	14.9	14.2
CH671-28	40	14.3	12.7	13.6	13.6
Mean		14.9	13.0	14.6	14.1
LSD 0.05		0.9	1.1	1.2	1.4
CV%		3.7	5.3	5.2	10.8

\* Check entry.

Table 36. Ear diameter (cm) evaluation of the 400-600 maturity inbred lines.

Entry	No.	IA	PA	CANHAR	Mean
A619 *	1	4.7	4.1	4.6	4.5
A632 *	2	3.9	3.5	3.8	3.7
B85	3	3.6	3.1	3.8	3.5
A634	4	4.1	3.5	3.8	3.8
A635	5	3.9	3.3	3.8	3.7
A659	6	4.2	3.7	4.2	4.0
A670	7	4.1	3.6	4.0	3.9
Mo42	8	3.7	3.3	3.7	3.6
AY499	9	3.8	3.4	3.7	3.6
NY562	10	3.9	3.4	3.8	3.7
NY378	11	3.3	3.1	3.3	3.2
NY821LERF	12	3.1	2.9	3.4	3.1
NYD410	13	4.1	3.4	3.9	3.8
NYRW3	14	4.0	3.4	3.9	3.8
NYRW20	15	4.3	3.1	3.9	3.8
NYRW23	16	4.2	3.4	3.9	3.8
Pa405	17	3.8	3.4	4.0	3.7
FR19	18	4.0	3.5	4.0	3.8
CH9	19	4.5	4.0	4.7	4.4
CH581-13	20	4.3	3.8	4.5	4.2
CH586-12	21	4.0	3.6	4.1	3.9
CH591-36	22	4.2	3.7	4.2	4.0
CH592-46	23	3.8	3.3	3.6	3.6
CH593-9	24	3.7	3.3	3.9	3.6
CH606-11	25	4.1	3.7	4.2	4.0
CH663-8	26	3.5	3.4	3.5	3.5
B87	27	3.9	3.5	3.8	3.7
Ms71	28	4.0	3.3	3.9	3.8
Ms75	29	4.0	3.4	3.9	3.8
Ms76	30	4.2	3.5	4.2	4.0
Ms200	31	4.3	3.6	4.2	4.1
H95	32	4.2	3.3	3.9	3.8
H99	33	3.5	3.4	3.6	3.5
W64A *	34	4.2	3.7	4.3	4.1
W548	35	3.7	3.2	3.8	3.6
W552C	36	4.3	3.8	4.6	4.2
W562	37	3.9	3.4	4.0	3.8
W570	38	3.9	3.2	3.8	3.6
CH753-4	39	3.5	3.2	3.7	3.5
CH671-28	40	4.7	3.8	4.6	4.4
Mean		4.0	3.5	4.0	3.8
LSD 0.05		0.2	0.2	0.2	0.1
CV%		2.4	3.2	3.1	5.6

\* Check entry.

Table 37. Three-hundred kernel weight (g) evaluation of the 400-600 maturity inbred lines.

Entry	No.	IA	PA	CANHAR	Mean
A619 *	1	71.0	48.7	62.0	60.6
A632 *	2	69.2	58.0	58.0	61.7
B85	3	65.1	45.3	64.3	58.3
A634	4	84.7	41.7	62.3	62.9
A635	5	60.8	36.0	61.3	52.7
A659	6	75.3	46.0	67.7	63.0
A670	7	66.5	51.3	67.3	61.7
Mo42	8	80.1	62.7	72.0	71.6
AY499	9	81.3	54.3	73.3	69.7
NY562	10	69.8	49.0	75.3	64.7
NY378	11	59.9	44.3	64.3	56.2
NY821LERF	12	69.2	47.3	67.0	61.2
NYD410	13	52.2	34.7	45.7	44.2
NYRW3	14	59.5	45.7	63.3	56.2
NYRW20	15	71.8	35.0	59.7	55.5
NYRW23	16	66.6	33.3	47.7	49.2
Pa405	17	48.8	40.7	55.7	48.4
FR19	18	54.2	32.3	50.7	45.7
CH9	19	68.1	31.7	77.7	59.1
CH581-13	20	46.7	36.3	57.7	46.9
CH586-12	21	49.9	40.0	50.0	46.6
CH591-36	22	58.3	38.0	58.3	51.5
CH592-46	23	71.0	49.0	64.0	61.3
CH593-9	24	48.8	40.3	59.0	49.4
CH606-11	25	53.4	41.3	57.0	50.6
CH663-8	26	71.9	61.7	73.7	69.1
B87	27	73.5	51.3	64.3	63.1
Ms71	28	77.9	43.0	70.0	63.6
Ms75	29	73.1	46.0	61.0	60.0
Ms76	30	65.9	37.3	63.0	55.4
Ms200	31	61.8	38.7	53.3	51.3
H95	32	71.8	40.0	59.3	57.0
H99	33	62.8	54.0	66.0	60.9
W64A *	34	54.5	39.3	60.3	51.4
W548	35	54.8	35.3	53.3	47.8
W552C	36	65.1	44.7	75.3	61.7
W562	37	66.3	44.0	65.3	58.6
W570	38	75.2	57.7	72.7	68.5
CH753-4	39	54.1	51.0	62.7	55.9
CH671-28	40	79.1	47.3	73.0	66.5
Mean		65.3	44.4	62.9	57.5
LSD 0.05		7.5	7.0	8.0	9.5
CV%		7.1	9.7	7.8	17.5

\* Check entry.



Table 38. Stalk crushing strength (load-kg) evaluation of the 400-600 maturity inbred lines.

Entry	No.	MO
A619 *	1	169.3
A632 *	2	219.4
B85	3	322.1
A634	4	152.7
A635	5	223.9
A659	6	145.3
A670	7	295.1
Mo42	8	157.2
AY499	9	215.3
NY562	10	338.5
NY378	11	267.5
NY821LERF	12	150.9
NYD410	13	184.5
NYRW3	14	438.5
NYRW20	15	217.6
NYRW23	16	242.8
Pa405	17	178.4
FR19	18	232.5
CH9	19	235.4
CH581-13	20	265.4
CH586-12	21	184.2
CH591-36	22	244.9
CH592-46	23	417.3
CH593-9	24	323.4
CH606-11	25	303.8
CH663-8	26	207.1
B87	27	273.7
Ms71	28	331.1
Ms75	29	158.2
Ms76	30	494.4
Ms200	31	201.2
H95	32	310.0
H99	33	142.1
W64A *	34	215.6
W548	35	178.4
W552C	36	145.5
W562	37	441.5
W570	38	341.7
CH753-4	39	297.9
CH671-28	40	247.8
Mean		252.8
LSD 0.05		122.7
CV%		29.9

\* Check entry.

Table 39. Bacterial wilt susceptibility evaluation of the 400-600 maturity inbred lines.

Entry	No.	Stewart's wilt			Goss' wilt
		MO	IL	Mean	NE
		(1-5)	(1-5)	(1-5)	(1-9)
A619 *	1	3.0++	2.0	2.3	2.7
A632 *	2	3.5+	2.0	2.6	2.7
B85	3	3.0++	1.0	1.5	3.0
A634	4	4.0++	2.0	2.5	1.0
A635	5	4.0++	1.3	2.0	2.0
A659	6	3.0++	1.0	1.5	1.3
A670	7	3.0++	2.0	2.3	1.0
Mo42	8	4.0++	1.3	2.0	2.3
AY499	9	.	1.0	1.0	1.7
NY562	10	.	1.0	1.0	1.7
NY378	11	.	1.3	1.3	1.3
NY821LERF	12	1.5+	1.7	1.6	1.0
NYD410	13	.	.	.	1.7
NYRW3	14	.	1.0	1.0	1.0
NYRW20	15	2.0++	1.0	1.3	1.0
NYRW23	16	.	1.0	1.0	1.0
Pa405	17	.	1.0	1.0	2.0
FR19	18	4.0++	1.3	2.0	1.3
CH9	19	.	1.0	1.0	2.3
CH581-13	20	.	1.7	1.7	1.0
CH586-12	21	.	2.0	2.0	3.0
CH591-36	22	.	2.0	2.0	1.0
CH592-46	23	.	1.7	1.7	1.7
CH593-9	24	1.0	1.0	1.0	4.0
CH606-11	25	3.0++	1.7	2.0	1.7
CH663-8	26	.	2.0	2.0	1.3
B87	27	3.7	1.3	2.5	1.0
Ms71	28	2.3	1.0	1.7	3.3
Ms75	29	2.7	2.0	2.3	1.3
Ms76	30	.	1.7	1.7	1.7
Ms200	31	3.0++	1.0	1.5	2.3
H95	32	2.0	1.3	1.7	2.0
H99	33	2.0	1.0	1.5	1.0
W64A *	34	3.3	1.7	2.5	1.0
W548	35	3.7	1.3	2.5	4.0
W552C	36	3.7	1.7	2.7	5.0
W562	37	3.3	1.3	2.3	3.3
W570	38	4.0++	2.0	2.5	1.3
CH753-4	39	3.0	2.0	2.5	1.0
CH671-28	40	2.7	1.0	1.8	1.0
Mean		2.9	1.4	1.9	1.9
LSD 0.05		1.1	0.6	NS	2.1
CV%		22.6	26.9		71.9

\* Check entry.

+ Data missing from one replication.

++ Data missing from two replications.

Table 40. Ear rot susceptibility evaluation of the 400-600 maturity inbred lines.

Entry	No.	<u>Fusarium</u>	<u>Gibberella</u>
		MN	MI
		(1-9)	(0-5)
A619 *	1	2.7	1.7
A632 *	2	1.4	0.7
B85	3	1.7	0.3
A634	4	2.2	3.5
A635	5	2.4	2.7
A659	6	1.4	2.1
A670	7	.	0.9
Mo42	8	.	0.2
AY499	9	1.1	0.5
NY562	10	1.3	0.0
NY378	11	4.9	1.3
NY821LERF	12	2.6	1.2
NYD410	13	.	0.8
NYRW3	14	2.1	2.9
NYRW20	15	1.2	0.9
NYRW23	16	5.1	2.5
Pa405	17	1.6	1.0
FR19	18	2.3	1.1
CH9	19	.	0.5
CH581-13	20	.	2.1
CH586-12	21	1.4	1.3
CH591-36	22	1.4	0.5
CH592-46	23	2.2	0.7
CH593-9	24	2.3	0.6
CH606-11	25	.	1.0
CH663-8	26	1.3	1.6
B87	27	1.5	2.2
Ms71	28	3.8	1.4
Ms75	29	1.3	1.6
Ms76	30	4.3	3.1
Ms200	31	.	3.2
H95	32	.	2.8
H99	33	.	0.7
W64A *	34	1.7	1.3
W548	35	2.7	3.5
W552C	36	1.3	2.0
W562	37	1.7	2.0
W570	38	1.1	3.8
CH753-4	39	1.6	1.2
CH671-28	40	2.2	3.7
Mean		2.1	1.6
LSD 0.05		1.5	1.6
CV%		43.1	63.6

\* Check entry.

Table 41. Fungal leaf disease susceptibility evaluation of the 400-600 maturity inbred lines.

Entry	No.	Eye-spot MI	North. leaf spot MI	Southern leaf blight		Northern leaf blight			
				Date 1 IL	Date 2 IL	MI	Race 1 IL	Race 2 IL	Race 2 PA
		(1-5)	(1-5)	(%LA#)	(%LA)	(1-5)	(%LA)	(%LA)	(1-5)
A619 *	1	3.7	2.7	8.3	16.7	2.7	4.3	6.0	1.5
A632 *	2	2.7	1.3	6.7	23.3	1.7	6.5	7.5	0.7
B85	3	3.3	1.7	6.7	10.0	1.0	1.3	1.7	0.8
A634	4	2.7	4.0	26.7	66.7	5.0	20.0	35.0	2.0
A635	5	2.3	3.3	13.3	80.0	5.0	15.5	35.0++	1.7
A659	6	3.7	4.7	30.0	50.0	5.0	20.0	27.5+	1.5
A670	7	3.3	3.3	16.7	40.0	3.0	8.8	18.3	1.0
Mo42	8	3.3	2.0	6.7	13.3	1.3	3.8	3.2	0.5
AY499	9	1.3	2.3	6.7	20.0	1.3	2.3	3.7	1.8
NY562	10	3.0	2.3	10.0	13.3	2.0	3.7	7.5	1.7
NY378	11	3.7	3.7	40.0	83.3	5.0	46.7	51.7	3.0
NY821LERF	12	3.7	3.3	13.3	33.3	2.3	3.0	7.5	0.7
NYD410	13	5.0	2.3	16.7	40.0	2.0	19.2	30.0	1.0
NYRW3	14	4.3	3.0	20.0	46.7	2.0	9.3	17.8	1.5
NYRW20	15	3.3	2.7	16.7	23.3	1.0	2.0	1.0	1.8
NYRW23	16	4.7	2.0	20.0	40.0	1.3	6.2	7.7	0.7
Pa405	17	4.3	3.0	20.0	53.3	2.3	3.5+	10.2	1.0
FR19	18	3.3	2.7	8.3	50.0	3.7	21.7	35.0	1.5
CH9	19	4.3	3.3	8.3	16.7	4.7	19.3+	25.0++	2.3
CH581-13	20	5.0	3.0	13.3	36.7	3.0	9.2	26.7	0.7
CH586-12	21	3.0	1.3	8.3	10.0	2.0	8.5	7.0	0.2
CH591-36	22	4.0	2.0	11.7	33.3	3.3	13.3	26.7	1.7
CH592-46	23	2.3	3.0	10.0+	65.0+	2.3	9.8	21.7	1.0
CH593-9	24	2.7	2.0	16.7	73.3	3.3	7.7	6.7	0.5
CH606-11	25	2.3	1.7	11.7	53.3	5.0	26.7	28.5	2.2
CH663-8	26	3.7	2.3	26.7	80.0	4.3	2.0	5.2	0.8
B87	27	3.3	1.7	10.0	36.7	3.0	15.3	22.3	1.2
Ms71	28	3.0	2.0	11.7	36.7	2.3	2.7	4.7	1.2
Ms75	29	1.7	1.3	5.0	10.0	1.0	2.0	2.0+	0.3
Ms76	30	2.0	1.7	20.0	66.7	1.3	5.0+	3.5+	0.8
Ms200	31	3.0	2.0	11.7	50.0	3.0	14.5	28.3	1.7
H95	32	2.3	1.7	6.7	13.3	1.0	1.0	1.7	0.2
H99	33	3.3	2.7	6.7	13.3	1.0	1.0	1.0	0.5
W64A *	34	3.3	3.3	26.7	80.0	2.0	2.3	28.8	1.2
W548	35	3.3	3.3	5.0	26.7	2.3	4.5	12.5+	1.3
W552C	36	2.0	3.3	8.3	33.3	1.7	5.2	9.3	1.5
W562	37	3.7	3.0	20.0	73.3	2.7	4.0	4.8+	1.3
W570	38	3.3	2.0	10.0	20.0	3.3	10.8	9.7	0.5
CH753-4	39	3.7	2.0	10.0	56.7	3.7	20.0++	25.0	1.2
CH671-28	40	3.0	2.0	10.0	33.3	3.7	11.2	28.3	1.0
Mean		3.3	2.5	13.9	40.3	2.7	9.7	15.6	1.2
LSD 0.05		0.8	0.9	9.2	18.5	0.7	7.3	12.8	0.8
CV%		16.6	23.2	42.7	29.6	15.7	48.5	52.6	42.8

\* Check entry.

+ Data missing from one replication.

++ Data missing from two replications.

# Represents percent of leaf area infected.

Table 42. Smut susceptibility evaluation of the 400-600 maturity inbred lines.

Entry	No.	Head Infect. TX
		(%)
A619 *	1	11.7
A632 *	2	1.3
B85	3	11.7
A634	4	1.7
A635	5	1.7
A659	6	8.8
A670	7	1.1
Mo42	8	15.0
AY499	9	0.0
NY562	10	3.8
NY378	11	11.1
NY821 LERF	12	12.2
NYD410	13	13.9
NYRW3	14	0.0
NYRW20	15	1.7
NYRW23	16	10.3
Pa405	17	7.3
FR19	18	1.0
CH9	19	0.0
CH581-13	20	3.3
CH586-12	21	0.0
CH591-36	22	1.0
CH592-46	23	1.1
CH593-9	24	1.1
CH606-11	25	4.4
CH663-8	26	8.3
B87	27	4.3
Ms71	28	0.0
Ms75	29	7.8
Ms76	30	4.5
Ms200	31	18.3
H95	32	1.1
H99	33	0.0
W64A *	34	0.0
W548	35	4.2
W552C	36	2.2
W562	37	1.3
W570	38	7.8
CH753-4	39	5.0
CH671-28	40	3.3
Mean		4.8
LSD 0.05		9.3
CV%		118.6

\* Check entry.

Table 43. Stalk rot susceptibility evaluation of the 400-600 maturity inbred lines.

Entry	No.	Anthracnose					
		Rating			Intnd. > 50%	Diplo.	
		MI	IL	Mean	Infct. IL	Infct. IL	rating IL
		(1-5)	(1-5)	(1-5)	No.	No.	(1-5)
A619 *	1	2.7	4.3	3.5	3.7	3.0	2.7
A632 *	2	1.0	4.0	2.5	3.4	2.3	2.5+
B85	3	1.3	2.7	2.0	1.8	1.2	2.9
A634	4	3.7	4.3	4.0	3.8	2.7	2.0
A635	5	2.0	3.0	2.5	3.4	2.9	3.7+
A659	6	2.7	3.7	3.2	2.4	1.3	2.7
A670	7	2.7	3.7	3.2	3.5	2.5	1.7
Mo42	8	1.3	4.0	2.7	3.2	2.4	3.2
AY499	9	1.3	3.3	2.3	2.9	1.5	3.4
NY562	10	1.7	1.0	1.3	2.0	0.8	3.1
NY378	11	3.3	3.7	3.5	2.7	2.1	3.5
NY821LERF	12	2.3	4.0	3.2	2.2	1.5	3.3
NYD410	13	2.0	3.3	2.7	3.4	1.8	2.3
NYRW3	14	2.0	2.7	2.3	3.0	2.3	3.3
NYRW20	15	1.7	3.3	2.5	3.3	1.4	3.2
NYRW23	16	1.3	3.0	2.2	2.9	1.8	2.8
Pa405	17	1.7	4.0	2.8	4.5	4.2	4.1
FR19	18	2.0	4.0	3.0	2.2	1.2	1.3
CH9	19	3.0	1.0	2.0	2.5	1.7	2.3
CH581-13	20	3.3	4.0	3.7	3.1	2.2	2.0
CH586-12	21	1.0	2.7	1.8	3.3	2.5	2.6
CH591-36	22	2.7	1.7	2.2	3.8	3.0	3.0
CH592-46	23	3.0	2.7	2.8	2.9	1.8	3.7
CH593-9	24	1.7	4.3	3.0	3.3	2.6	3.2
CH606-11	25	1.7	3.3	2.5	3.4	2.4	2.9
CH663-8	26	2.0	3.7	2.8	4.0	2.4	1.8
B87	27	1.7	2.0	1.8	3.6	2.4	2.3
Ms71	28	2.3	3.0	2.7	3.3	2.6	2.8
Ms75	29	1.0	2.0	1.5	3.7	2.7	1.8
Ms76	30	1.0	2.7	1.8	4.1	3.3	2.4
Ms200	31	1.0	4.0	2.5	3.2	1.5	1.5
H95	32	1.0	2.3	1.7	1.6	0.7	2.9
H99	33	2.3	5.0	3.7	2.7	1.7	2.7
W64A *	34	2.7	3.7	3.2	2.4	1.7	2.9
W548	35	2.3	3.7	3.0	3.0	2.4	3.9
W552C	36	2.7	4.3	3.5	2.6	2.0	3.1
W562	37	2.7	3.7	3.2	3.8	3.0	3.7
W570	38	1.3	1.3	1.3	3.3	2.5	2.7
CH753-4	39	1.3	4.0	2.7	2.7	1.8	2.6
CH671-28	40	2.0	4.0	3.0	4.1	3.4	4.5+
Mean		2.0	3.3	2.6	3.1	2.2	2.8
LSD 0.05		0.7	1.2	NS	0.6	0.7	0.7
CV%		22.4	23.9		12.6	20.6	15.4

\* Check entry.

+ Data missing from one replication.

Table 44. Virus susceptibility evaluation of the 400-600 maturity inbred lines.

Entry	No.	MCDV OH	MDMV			MDMV rating IL	CLN rating KS	Virus rating OH
			IL	OH	Mean			
		(%)	(%)	(%)	(%)	(1-5)	(1-9)	(1-5)
A619 *	1	61.4	72.2	79.2	75.7	3.3	7.7	3.7
A632 *	2	73.8	55.6	45.1	50.3	2.0	7.7	3.0
B85	3	30.0	46.0	36.5	41.3	2.0	8.3	2.7
A634	4	50.6	87.5	19.0	53.2	3.0	7.0	3.3
A635	5	76.7	90.5	63.3	76.9	3.0	7.7	3.7
A659	6	72.1	100.0	86.2	93.1	4.0	6.7	4.0
A670	7	83.6	100.0	83.6	91.8	4.0	6.3	4.0
Mo42	8	58.0	95.8	60.0	77.9	3.0	7.7	3.0
AY499	9	63.8	91.7	25.6	58.6	4.0	7.7	3.3
NY562	10	92.3	.	87.5	87.5	.	8.0	3.7
NY378	11	59.0	63.5	70.0	66.7	2.7	7.3	3.7
NY821LERF	12	55.7	68.8	58.0	63.4	3.0	7.3	3.3
NYD410	13	75.0	100.0	53.1	76.6	4.0	7.7	3.0
NYRW3	14	90.9	87.5	93.2	90.3	3.0	8.0	4.0
NYRW20	15	78.9	93.3	92.9	93.1	4.3	7.7	4.0
NYRW23	16	97.6	.	97.6	97.6	.	6.7	4.0
Pa405	17	48.5	0.0	4.5	2.3	1.0	7.3	2.7
FR19	18	93.2	35.6	60.1	47.8	1.7	7.0	3.7
CH9	19	41.7	80.6	33.3	56.9	2.7	8.0	2.0
CH581-13	20	78.6	80.2	40.2	60.2	2.7	6.7	3.0
CH586-12	21	78.3	66.7	47.7	57.2	2.3	7.3	3.0
CH591-36	22	26.2	54.2	0.0	27.1	2.0	7.3	2.0
CH592-46	23	85.7	93.3	92.9	93.1	3.3	7.0	4.0
CH593-9	24	55.9	.	31.0	31.0	.	6.3	3.0
CH606-11	25	86.2	100.0	96.9	98.4	3.3	7.7	4.0
CH663-8	26	91.2	82.0	72.8	77.4	2.7	6.7	3.7
B87	27	36.1	.	65.7	65.7	.	6.7	3.0
Ms71	28	81.7	100.0	85.0	92.5	3.0	8.3	3.7
Ms75	29	90.6	100.0	59.9	80.0	3.7	5.0	3.0
Ms76	30	66.7	45.8	45.2	45.5	2.3	7.0	3.7
Ms200	31	95.5	82.2	87.6	84.9	2.7	8.0	3.7
H95	32	55.5	100.0	56.2	78.1	3.7	6.7	3.0
H99	33	69.4	45.2	42.9	44.1	2.3	6.3	3.0
W64A *	34	39.9	95.8	81.3	88.6	3.3	8.0	3.0
W548	35	80.3	91.7	56.3	74.0	3.7	7.0	3.0
W552C	36	50.7	79.6	79.9	79.7	2.7	8.0	3.3
W562	37	66.6	75.4	50.3	62.8	2.0	7.3	3.0
W570	38	52.8	100.0	44.4	72.2	3.7	7.7	3.0
CH753-4	39	75.6	22.0	47.4	34.7	1.7	7.7	3.7
CH671-28	40	53.8	100.0	88.8	94.4	3.7	6.7	3.0
Mean		68.0	77.3	60.5	68.5	2.9	7.3	2.3
LSD 0.05		19.0	24.7	19.3	34.5	0.8	NS	0.7
CV%		18.0	20.6	20.6	43.0	17.7		13.5

\* Check entry.

Table 45. Insect susceptibility evaluation of the 400-600 maturity inbred lines.

Entry	No.	ECB		CEW	FAW# GA
		First IA	Second IA	tuni. GA	
		(1-9)	(1-9)	(cm)	(0-9)
A619 *	1	3.0	8.0	9.4	5.6
A632 *	2	6.7	7.0	9.5	5.4
B85	3	2.7	5.0	9.5	5.9
A634	4	7.0	7.7	10.1	5.4
A635	5	6.3	6.7	10.3	5.4
A659	6	4.3	8.3	9.6	5.8
A670	7	4.3	4.7	12.2	5.4
Mo42	8	6.7	7.7	14.0	5.7
AY499	9	4.7	8.3	9.2	6.4
NY562	10	2.7	8.3	12.6	6.0
NY378	11	9.0	7.0	10.2	5.9
NY821LERF	12	5.3	7.7	10.9	6.0
NYD410	13	8.3	7.3	11.9	5.7
NYRW3	14	7.3	7.0	11.3	5.6
NYRW20	15	3.3	7.0	11.9	6.0
NYRW23	16	8.3	6.3	12.6	5.7
Pa405	17	4.0	8.3	8.0	5.5
FR19	18	7.7	9.0	9.7	5.5
CH9	19	2.3	8.0	10.4	6.1
CH581-13	20	4.3	7.7	10.4	5.8
CH586-12	21	2.0	7.7	8.9	6.6
CH591-36	22	4.3	6.0	9.7	5.0
CH592-46	23	9.0	6.3	9.7	6.1
CH593-9	24	4.7	7.3	10.2	5.5
CH606-11	25	6.3	6.0	12.8	6.2
CH663-8	26	6.5+	8.0	8.5	6.3
B87	27	3.0	7.7	11.6	5.4
Ms71	28	6.3	7.7	9.6	4.9
Ms75	29	7.7	5.0	10.7	5.8
Ms76	30	4.0	7.0	13.1	5.9
Ms200	31	3.7	9.0	10.2	5.4
H95	32	7.7	8.0	10.0	5.5
H99	33	3.3	9.0	10.2	6.0
W64A *	34	6.3	6.0	9.8	5.8
W548	35	3.7	7.7	10.6	6.0
W552C	36	4.7	6.7	8.0	4.9
W562	37	5.3	8.3	10.9	6.1
W570	38	6.7	6.0	10.2	6.0
CH753-4	39	6.3	6.3	9.5	6.1
CH671-28	40	3.7	6.7	11.8	5.3
Mean		5.3	7.2	10.5	5.8
LSD 0.05		2.5	1.6	2.1	NS
CV%		28.7	13.3	12.1	

\* Check entry.

+ Data missing from one replication.

# Data from four replications.



Table 46. Trifluralin tolerance index for 400-600 maturity inbred lines. High values represent high levels of tolerance.

Entry	No.	Incorporation depth 7.5 cm			Incorporation depth 15.0 cm		
		1982#	1983#	Mean	1982#	1983#	Mean
		A619 *	1	33.3	32.2	32.8	35.3
A632 *	2	25.4	32.9	29.1	45.8	43.5	44.6
B85	3	21.7	47.9	34.8	45.5	50.4	48.0
A634	4	35.1	39.0	37.1	36.7	40.0	38.4
A635	5	20.1	34.4	27.2	37.2	35.8	36.5
A659	6	20.9	30.3	25.6	47.3	23.8	35.5
A670	7	40.9	32.4	36.6	60.4	24.6	42.5
Mo42	8	27.9	29.7	28.8	39.1	43.6	41.3
AY499	9	14.0	18.3	16.1	25.3	18.9	22.1
NY562	10	34.9	19.3	27.1	50.3	29.4	39.8
NY378	11	27.5	4.9	16.2	26.3	9.7	18.0
NY821LERF	12	10.1	17.9	14.0	38.4	24.0	31.2
NYD410	13	18.5	22.3	20.4	43.7	19.9	31.8
NYRW3	14	13.1	14.8	13.9	44.6	31.7	38.2
NYRW20	15	25.8	8.1	17.0	47.5	2.7	25.1
NYRW23	16	22.3	12.8	17.5	52.0	12.0	32.0
Pa405	17	19.4	23.5	21.4	34.4	38.3	36.4
FR19	18	17.6	13.2	15.4	42.5	21.6	32.1
CH9	19	18.6	16.9	17.8	41.5	26.7	34.1
CH581-13	20	36.9	12.1	24.5	52.0	35.1	43.5
CH586-12	21	8.4	7.4	7.9	58.3	25.6	41.9
CH591-36	22	26.8	6.1	16.4	49.5	38.8	44.1
CH592-46	23	19.3	8.4	13.8	50.0	28.5	39.3
CH593-9	24	28.4	12.0	20.2	43.7	24.2	33.9
CH606-11	25	21.2	14.8	18.0	59.5	21.3	40.4
CH663-8	26	41.6	35.3	38.4	39.0	54.5	46.7
B87	27	29.2	34.5	31.9	58.4	46.5	52.5
Ms71	28	25.0	33.9	29.5	46.8	56.0	51.4
Ms75	29	23.6	22.7	23.2	63.9	47.0	55.4
Ms76	30	38.7	35.8	37.2	65.2	54.8	60.0
Ms200	31	38.1	21.8	29.9	43.7	39.7	41.7
H95	32	9.7	7.4	8.5	39.4	44.2	41.8
H99	33	17.0	18.0	17.5	29.9	24.3	27.1
W64A *	34	20.2	29.7	25.0	58.1	56.2	57.1
W548	35	20.0	58.1	39.1	32.8	58.5	45.6
W552C	36	26.3	34.9	30.6	34.6	55.1	44.8
W562	37	24.5	52.3	38.4	38.8	53.9	46.4
W570	38	34.8	4.1	19.4	35.7	6.9	21.3
CH753-4	39	29.9	22.3	26.1	37.9	46.2	42.1
CH671-28	40	29.8	16.9	23.3	61.1	25.9	43.5
Mean		24.9	23.5	24.2	44.8	34.2	39.5
LSD 0.05				NS			

\* Check entry.

# Data from one replication.

**COOPERATORS CONTRIBUTING TO THE 700-800 MATURITY EVALUATION:**  
(In order of character presentation in the tables)

Cooperator	Site code	Organization and location	Characters
Russell Schreiber	IA IA(H)	Iowa State Univ., Ames Holden's Foundation Seeds, Williams- burg	Agronomic Agronomic
Dudley	IL	Univ. of Illinois, Urbana	Agronomic
Bauman	IN	Purdue Univ., West Lafayette	Agronomic
Poneleit	KY	Univ. of Kentucky, Lexington	Agronomic
Rossmann	MI	Michigan State Univ., East Lansing	Agronomic
Darrah	MO	USDA/Univ. of Missouri, Columbia	Agronomic
Johnson	PA	Pennsylvania State Univ., Univ. Park	Agronomic
Bockholt	TX	Texas A&M Univ., College Station	Agronomic
Politowski	MO	Pfizer Genetics, St. Louis	Stewart's wilt
Turner	NE	Funk Seeds International, Clearwater	Goss' wilt
Hart and Rossmann	MI	Michigan State Univ., East Lansing	Gibberella ear rot Eyespot North. leaf spot South. leaf blight
White	IL	Univ. of Illinois, Urbana	North. leaf blight
Hart and Rossmann	MI	Michigan State Univ., East Lansing	North. leaf blight
Johnson	PA	Pennsylvania State Univ., Univ. Park	North. leaf blight
Bockholt and Frederiksen	TX	Texas A&M Univ., Halfway	Head smut
Hart and Rossmann	MI	Michigan State Univ., East Lansing	Anthracnose stalk rot
Trainor	IL	Northrup, King & Co., St Joseph	Anthracnose stalk rot
White	IL	Univ. of Illinois	Anthracnose stalk rot Diplodia stalk rot
Findley and Louie	OH	USDA/OARDC, Wooster	MCDV
Trainor	IL	Northrup, King & Co., St. Joseph	MDMV
Turner	KS	Funk Seeds International, Norton	MDMV
Findley and Louie	OH	USDA/OARDC, Wooster	CLN
Guthrie	IA	USDA	Virus rating
Widstrom	GA	USDA	European corn borer
Penner, Roggenbuck, and Rossmann	MI	Michigan State Univ., East Lansing	Corn ear worm Fall army worm Trifluralin tolerance

Table 47. Yield (q/ha) evaluation of the 700-800 maturity inbred lines.

Entry	No.	IA	IL	IN#	KY	MI	PA	TX	Mean
B73 *	1	69.3	65.0	69.2	35.2	22.9	31.4	17.6	43.1
Mo17 *	2	54.3	47.3	56.9	34.9	15.1	27.6	3.4	33.1
N28H+ *	3	70.1	58.5	59.7	32.1	37.9	37.4	17.2	44.0
B68	4	50.8	17.9	22.3	13.3	6.3	6.9	14.2	18.6
B75	5	40.2	32.6	47.4	24.1	14.8	11.3	14.2	25.3
B76	6	54.1	49.0	55.8	30.9	37.0	34.4	16.1	38.8
B77	7	48.9	49.9	30.1	20.1	22.3	31.6	17.9	31.6
B79	8	38.4	39.6	37.4	15.9	16.9	9.5	7.5	22.9
B84	9	62.9	69.0	60.3	29.2	20.8	20.5	23.5	39.9
Mo14W	10	33.1	21.5	0.0	11.2	6.1	2.9	6.7	12.2
Mo20W	11	28.8	45.9	44.1	34.3	27.4	42.1	32.5	36.1
Mo40	12	54.8	39.5	48.5	27.1	22.4	20.4	13.1	31.5
Mo42	13	49.3	46.6	53.0	23.2	44.9	39.2	20.9	38.9
N132	14	59.3	66.8	74.8	37.3	48.0	48.5	36.6	51.9
N139	15	53.3	63.3	64.7	29.2	31.6	27.0	21.7	40.4
N152	16	79.8	75.4	77.6	48.0	54.5	55.5	28.4	59.0
Oh509A	17	47.6	32.3	48.5	30.6	29.3	30.3	21.7	33.6
Oh514	18	53.6	45.4	54.7	35.0	29.8	38.6	11.6	37.6
Pa91	19	55.8	36.3	50.2	36.1	24.5	27.0	4.5	32.7
Pa762	20	57.0	41.3	54.7	33.1	42.5	30.7	10.5	37.7
Pa871	21	34.1	41.7	41.3	27.8+	35.4	28.2	6.4	30.3
Pa872	22	30.8	15.8	40.7	20.9	33.7	28.0	6.0	24.4
FR16	23	37.1	33.3	40.7	22.9	26.1	23.3	9.3	26.9
FR20	24	64.1	48.1	59.7	31.2	41.0	34.1	11.2	40.4
FR21	25	54.5	54.3	59.1	23.9	33.2	16.2	11.2	34.9
H60	26	31.0	22.3	31.2	19.2	7.6	16.7	5.6	18.5
H84	27	52.2	47.5	59.7	34.8	34.5	29.5	22.4	39.1
H93	28	39.8	23.2	29.0	18.2	14.2	18.4	4.9	20.7
H98	29	45.8	45.1	53.0	30.9+	35.2	39.6	11.2	36.8
H100	30	55.1	54.3	63.1	23.2	12.7	21.9	4.1	32.0
H102	31	40.7	22.1	44.6	20.7	13.4	4.0	6.7	20.6
H103	32	40.2	36.2	39.1	28.0	29.4	4.5+	6.0	26.7
Mean		49.6	43.3	49.1	27.5	27.2	26.4	13.9	33.1
LSD 0.05		9.0	19.7	11.0	6.2	3.2	12.7	7.2	8.7
CV%		11.1	27.8	11.0	13.8	7.3	29.4	31.5	40.1

\* Check entry.

+ Data missing from one replication.

# Data from two replications.

Table 48. Stand (percent) evaluation of the 700-800 maturity inbred lines.

Entry	No.	IA	IL	IN#	KY	PA	TX	Mean
B73 *	1	95.6	100.0	100.0	100.0	100.0	72.2	94.3
Mo17 *	2	82.2	100.0	100.0	98.0	100.0	65.3	90.4
N28H† *	3	73.3	100.0	100.0	93.1	100.0	65.3	88.0
B68	4	82.2	91.7	100.0	98.0	100.0	80.6	91.6
B75	5	73.3	95.0	100.0	100.0	100.0	69.4	89.0
B76	6	82.2	96.7	100.0	89.2	100.0	65.3	88.2
B77	7	86.7	100.0	100.0	97.1	100.0	79.2	93.5
B79	8	86.7	88.3	100.0	100.0	100.0	68.1	90.0
B84	9	88.9	100.0	100.0	99.0	100.0	76.4	93.7
Mo14W	10	65.6	90.0	100.0	97.1	100.0	69.4	86.2
Mo20W	11	86.7	100.0	100.0	99.0	100.0	86.1	95.0
Mo40	12	80.0	100.0	100.0	93.1	100.0	70.8	90.1
Mo42	13	84.4	100.0	100.0	96.1	100.0	84.7	93.9
N132	14	48.9	98.3	100.0	94.1	100.0	68.1	84.0
N139	15	64.4	100.0	100.0	98.0	100.0	61.1	86.5
N152	16	66.7	100.0	100.0	99.0	100.0	70.8	88.8
Oh509A	17	80.0	98.3	100.0	98.0	100.0	80.6	92.4
Oh514	18	84.4	100.0	100.0	99.0	100.0	66.7	91.2
Pa91	19	42.2	98.3	100.0	98.0	100.0	62.5	82.5
Pa762	20	37.8	95.0	100.0	85.3	100.0	69.4	80.1
Pa871	21	88.9	91.7	100.0	64.7	100.0	80.6	86.9
Pa872	22	28.9	53.3	100.0	65.7	80.0	47.2	60.3
FR16	23	62.2	100.0	100.0	95.1	100.0	73.6	87.8
FR20	24	68.9	100.0	100.0	97.1	100.0	81.9	90.8
FR21	25	77.8	96.7	100.0	94.1	100.0	66.7	88.6
H60	26	88.9	78.3	100.0	93.1	100.0	61.1	86.1
H84	27	66.7	93.3	100.0	98.0	100.0	80.6	89.2
H93	28	88.9	98.3	100.0	77.5	100.0	72.2	88.9
H98	29	82.2	100.0	100.0	65.7	100.0	69.4	85.4
H100	30	71.1	96.7	100.0	97.1	100.0	66.7	87.9
H102	31	73.3	70.0	100.0	93.1	100.0	62.5	82.2
H103	32	64.4	100.0	100.0	88.2	100.0	55.6	83.8
Mean		73.6	94.7	100.0	92.5	99.4	70.3	87.7
LSD 0.05		22.4	18.0	NS	NS	5.1	16.5	9.4
CV%		18.7	11.6			3.1	14.3	16.0

\* Check entry.

# Data from two replications.

Table 49. Root lodging (percent) evaluation of the 700-800 maturity inbred lines.

Entry	No.	IA	IL	IN#	KY	PA	TX	Mean
B73 *	1	0.0	0.0	2.2	1.0	0.0	0.0	0.4
Mo17 *	2	0.0	0.0	0.0	0.0	0.0	2.1	0.4
N28H† *	3	0.0	0.0	0.0	1.0	0.0	0.0	0.2
B68	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
B75	5	0.0	0.0	0.0	0.0	0.0	1.9	0.3
B76	6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
B77	7	1.4	0.0	0.0	2.0	0.0	0.0	0.6
B79	8	6.3	0.0	0.0	1.0	0.0	4.4	2.1
B84	9	1.4	0.0	0.0	1.0	0.0	0.0	0.4
Mo14W	10	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Mo20W	11	6.0	0.0	0.0	0.0	0.0	5.6	2.0
Mo40	12	7.1	0.0	0.0	1.1	1.1	0.0	1.6
Mo42	13	0.0	0.0	0.0	1.0	0.0	0.0	0.2
N132	14	0.0	0.0	3.3	1.0	0.0	5.3	1.5
N139	15	0.0	0.0	6.7	2.0	0.0	0.0	1.1
N152	16	2.1	1.7	7.8	1.0	0.0	0.0	1.7
Oh509A	17	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Oh514	18	1.4	3.3	0.0	0.0	0.0	0.0	0.8
Pa91	19	0.0	0.0	0.0	2.1	1.1	0.0	0.6
Pa762	20	7.4	0.0	0.0	1.1	0.0	0.0	1.5
Pa871	21	1.4	0.0	14.4	1.5+	0.0	0.0	2.2
Pa872	22	0.0	0.0	1.1	0.0	2.8	2.6	1.1
FR16	23	0.0	0.0	0.0	0.0	0.0	2.1	0.4
FR20	24	0.0	1.7	0.0	0.0	2.2	0.0	0.7
FR21	25	1.5	0.0	1.1	0.0	2.2	1.7	1.1
H60	26	0.0	0.0	0.0	0.0	0.0	0.0	0.0
H84	27	0.0	0.0	0.0	2.9	0.0	0.0	0.5
H93	28	0.0	0.0	0.0	0.0	0.0	0.0	0.0
H98	29	3.6	0.0	0.0	0.0+	0.0	0.0	0.7
H100	30	0.0	0.0	0.0	0.0	0.0	0.0	0.0
H102	31	0.0	0.0	6.7	2.1	0.0	8.6	2.7
H103	32	17.6	0.0	8.9	5.3	13.3	8.9	9.0
Mean		1.8	0.2	1.6	0.8	0.7	1.3	1.1
LSD 0.05		6.7	1.5	NS	NS	4.2	NS	2.3
CV%		230.6	428.8			359.5		329.0

\* Check entry.

+ Data missing from one replication.

Table 50. Stalk lodging (percent) evaluation of the 700-800 maturity inbred lines.

Entry	No.	IA	IL	IN#	KY	PA	TX	Mean
B73 *	1	3.4	1.7	2.2	2.9	1.1	5.1	2.8
Mo17 *	2	6.7	0.0	1.1	6.1	4.4	2.1	3.5
N28H+ *	3	21.8	1.7	6.7	17.6	0.0	2.4	8.5
B68	4	0.0	0.0	0.0	1.0	0.0	0.0	0.2
B75	5	1.7	3.3	2.2	3.9	0.0	1.9	2.2
B76	6	2.5	0.0	10.0	3.6	0.0	0.0	2.3
B77	7	2.6	0.0	41.1	11.3	10.0	1.7	9.3
B79	8	0.0	0.0	8.9	2.9	3.3	0.0	2.2
B84	9	6.0	0.0	3.3	9.9	4.4	1.8	4.3
Mo14W	10	0.0	0.0	0.0	2.0	0.0	0.0	0.4
Mo20W	11	0.0	0.0	5.6	2.0	1.1	0.0	1.2
Mo40	12	5.6	5.0	11.1	7.6	0.0	0.0	4.5
Mo42	13	2.6	3.3	16.7	8.1	0.0	0.0	4.4
N132	14	8.3	0.0	14.4	2.9	0.0	0.0	3.7
N139	15	2.1	0.0	6.7	6.1	0.0	0.0	2.2
N152	16	10.8	6.7	13.3	22.1	0.0	0.0	8.6
Oh509A	17	2.6	0.0	0.0	6.0	0.0	0.0	1.5
Oh514	18	2.6	0.0	0.0	3.1	1.1	0.0	1.2
Pa91	19	2.4	1.7	2.2	8.0	1.1	0.0	2.6
Pa762	20	0.0	0.0	7.8	10.1	0.0	1.7	3.0
Pa871	21	0.0	3.9	8.9	7.5+	2.2	2.1	3.6
Pa872	22	0.0	0.0	2.2	5.8	1.1	2.6	1.9
FR16	23	10.6	1.7	16.7	7.1	0.0	0.0	5.4
FR20	24	3.6	0.0	4.4	4.1	3.3	0.0	2.5
FR21	25	15.3	1.7	14.4	27.1	2.2	6.7	11.0
H60	26	0.0	0.0	2.2	0.0	1.1	0.0	0.5
H84	27	0.0	0.0	5.6	7.2	2.2	0.0	2.3
H93	28	0.0	0.0	0.0	4.0	1.1	1.8	1.2
H98	29	2.6	0.0	3.3	10.3+	0.0	1.8	2.5
H100	30	0.0	0.0	5.6	0.0	0.0	2.4	1.1
H102	31	4.9	0.0	15.6	25.2	0.0	4.5	7.9
H103	32	6.9	0.0	23.3	27.6	8.9	13.6	12.8
Mean		3.9	1.0	8.0	8.2	1.5	1.6	3.8
LSD 0.05		8.1	3.3	12.8	10.8	4.5	5.9	4.9
CV%		126.8	212.7	78.4	80.5	182.3	222.0	194.4

\* Check entry.

+ Data missing from one replication.

# Data from two replications.

Table 51. Usable ears (per 100 plants) evaluation of the 700-800 maturity inbred lines.

Entry	No.	IA	IL	KY	PA	Mean
B73 *	1	143.3	105.0	96.7	101.7	111.7
Mo17 *	2	106.7	93.3	98.3	95.0	98.3
N28H† *	3	173.3	118.3	98.3	120.0	127.5
B68	4	150.0	85.0	95.0	61.7	97.9
B75	5	100.0	75.0	100.0	68.3	85.8
B76	6	110.0	91.7	96.7	95.0	98.3
B77	7	173.3	156.7	100.0	143.3	143.3
B79	8	176.7	91.7	98.3	103.3	117.5
B84	9	110.0	113.3	91.7	91.7	101.7
Mo14W	10	106.7	30.0	61.7	30.0	57.1
Mo20W	11	103.3	91.7	92.5+	111.7	100.5
Mo40	12	146.7	83.3	100.0	90.0	105.0
Mo42	13	130.0	101.7	100.0	105.0	109.2
N132	14	106.7	95.0+	88.3	106.7	99.5
N139	15	110.0	101.7	100.0	91.7	100.8
N152	16	133.3	108.3	100.0	118.3	115.0
Oh509A	17	116.7	86.7	100.0	103.3	101.7
Oh514	18	123.3	101.7	95.0	106.7	106.7
Pa91	19	106.7	75.0	100.0	103.3	96.2
Pa762	20	113.3	80.0	95.0	88.3	94.2
Pa871	21	173.3	121.7	100.0+	138.3	136.4
Pa872	22	150.0	48.3	91.7	110.0	100.0
FR16	23	126.7	96.7	98.3	100.0	105.4
FR20	24	120.0	91.7	100.0	98.3	102.5
FR21	25	120.0	111.7	96.7	68.3	99.2
H60	26	103.3	63.3	96.7	95.0	89.6
H84	27	140.0	85.0	98.3	106.7	107.5
H93	28	126.7	70.0	78.3	88.3	90.8
H98	29	123.3	91.7	97.5+	113.3	107.3
H100	30	180.0	143.3	98.3	110.0	132.9
H102	31	110.0	66.7	96.7	50.0	80.8
H103	32	103.3	85.0	96.7	23.3	77.1
Mean		128.6	92.5	95.5	94.9	103.0
LSD 0.05		25.5	32.4	15.9	27.4	23.6
CV%		12.1	21.5	10.2	17.1	28.0

\* Check entry.

+ Data missing from one replication.

Table 52. Plant height (cm) evaluation of the 700-800 maturity inbred lines.

Entry	No.	IA	IA(H)	IL	IN	KY	MI	MO	PA	TX	Mean
B73 *	1	188.3	192.3	199.7	238.3	210.0	185.0	188.3	177.3	161.7	193.4
Mo17 *	2	176.7	200.7	181.7	230.0	193.3	181.7	181.7	165.0	141.4	183.6
N28Ht *	3	175.3	160.0	176.0	210.0	156.7	160.0	160.0	163.0	162.6	169.3
B68	4	188.7	183.7	196.0	218.3	186.7	165.0	188.3	172.0	179.5	186.5
B75	5	139.0	137.3	172.3	216.7	181.7	151.7	153.3	142.7	145.6	160.0
B76	6	155.0	187.7	174.3	205.0	183.3	161.7	138.3	157.0	132.1	166.0
B77	7	186.7	200.3	204.7	233.3	195.0	160.0	170.0	179.3	185.4	190.5
B79	8	137.0	186.0	158.3	186.7	171.7	148.3	140.0	149.0	133.8	156.8
B84	9	160.0	144.0	177.3	215.0	173.3	155.0	158.3	164.0	165.1	168.0
Mo14W	10	137.7	179.3	184.0	213.3	156.7	150.0	138.3	156.3	143.1	162.1
Mo20W	11	134.0	172.3	148.0	175.0	131.7	125.0	133.3	142.0	129.5	143.4
Mo40	12	163.0	184.0	173.0	220.0	178.3	143.3	163.3	156.7	154.1	170.6
Mo42	13	172.7	176.0	184.7	238.3	186.7	170.0	175.0	168.3	168.5	182.2
N132	14	137.3	187.3	171.0	223.3	165.0	165.0	161.7	165.3	177.0	172.6
N139	15	164.3	198.3	185.3	233.3	198.3	168.3	175.0	165.0	164.3	183.6
N152	16	160.7	184.7	196.7	243.3	200.0	176.7	170.0	158.0	178.6	185.4
Oh509A	17	147.3	156.7	180.7	213.3	168.3	168.3	155.0	159.0	128.7	164.2
Oh514	18	194.0	200.0	203.7	243.3	195.0	195.0	186.7	190.3	182.9	199.0
Pa91	19	157.0	203.7	197.3	245.0	196.7	175.0	146.7	170.3	150.7	182.5
Pa762	20	133.3	159.0	145.3	196.7	183.3	143.3	141.7	134.7	132.1	152.2
Pa871	21	133.3	143.0	169.7	191.7	190.0+	148.3	155.0	145.3	136.3	155.7
Pa872	22	118.0	156.0	139.7	173.3	175.0	136.7	130.0	129.0	117.7	141.7
FR16	23	112.7	210.3	160.0	180.0	153.3	138.3	128.3	133.7	104.1	146.8
FR20	24	178.3	168.3	187.7	230.0	186.7	170.0	176.7	172.0	163.4	181.5
FR21	25	163.0	187.3	187.0	233.3	190.0	160.0	156.7	150.3	142.2	174.4
H60	26	154.3	165.7	174.7	218.3	190.0	145.0	145.0	151.7	127.0	163.5
H84	27	134.0	189.3	156.3	186.7	153.3	145.0	135.0	141.0	140.5	153.5
H93	28	174.7	195.7	179.7	220.0	181.7	170.0	160.0	167.3	161.7	179.0
H98	29	122.0	187.7	155.3	178.3	160.0+	138.3	120.0	137.7	138.9	148.3
H100	30	168.7	178.0	186.0	216.7	185.0	150.0	173.3	171.3	150.7	175.5
H102	31	163.7	179.3	159.3	190.0	161.7	136.7	153.3	159.0	144.8	160.9
H103	32	167.7	171.7	185.0	220.0	186.7	146.7	163.3	166.0	138.0	171.7
Mean		156.2	178.9	176.6	213.6	179.0	157.3	156.9	158.1	149.4	169.5
LSD 0.05		12.0	14.1	12.9	11.9	15.5	15.1	15.1	15.5	23.1	10.5
CV%		4.7	4.8	4.5	3.4	5.3	5.9	5.9	6.0	9.5	11.6

\* Check entry.



Table 53. Ear height (cm) evaluation of the 700-800 maturity inbred lines.

Entry	No.	IA	IA(H)	IL	IN	KY	MI	MO	PA	TX	Mean
B73 *	1	83.0	71.7	98.3	95.0	90.0	98.3	80.0	90.0	89.7	88.5
Mo17 *	2	82.3	99.0	88.0	87.3	60.0	96.7	81.7	74.7	74.5	82.7
N28H† *	3	76.8	65.0	87.0	79.3	65.0	80.0	61.7	78.7	77.9	74.6
B68	4	88.0	91.3	89.7	85.7	81.7	93.3	75.0	86.0	101.6	88.0
B75	5	53.6	51.0	77.7	79.3	65.0	71.7	66.7	57.0	72.8	66.1
B76	6	70.3	82.3	80.7	81.0	71.7	85.0	60.0	80.0	66.9	75.3
B77	7	71.4	99.7	96.7	83.3	76.7	83.3	70.0	79.7	72.0	81.4
B79	8	66.3	82.3	81.7	75.0	68.3	75.0	71.7	79.3	77.0	75.2
B84	9	80.4	74.0	97.0	91.7	76.7	80.0	75.0	83.3	89.7	83.1
Mo14W	10	68.9	73.0	108.7	93.3	73.3	80.0	68.3	80.0	71.1	79.6
Mo20W	11	60.3	92.3	69.3	68.3	58.3	65.0	56.7	76.0	61.0	67.5
Mo40	12	68.6	88.3	79.0	75.0	66.7	71.7	61.7	72.7	56.7	71.1
Mo42	13	62.9	100.0	73.7	81.7	55.0	78.3	66.7	73.3	69.4	73.4
N132	14	55.2	86.7	82.3	86.0	58.3	81.7	76.7	79.3	76.2	75.8
N139	15	49.8	88.3	73.0	68.3	58.3	78.3	56.7	53.3	73.7	66.6
N152	16	70.2	75.3	89.3	91.7	73.3	91.7	70.0	75.7	99.1	81.8
Oh509A	17	63.7	76.7	92.3	81.7	73.3	90.0	71.7	71.3	70.3	76.8
Oh514	18	83.7	85.0	108.0	101.7	86.7	101.7	91.7	97.0	97.4	94.7
Pa91	19	58.5	91.7	89.0	87.0	73.3	81.7	61.7	70.3	66.9	75.6
Pa762	20	45.8	78.3	60.7	69.3	65.0	65.0	50.0	55.3	55.9	60.6
Pa871	21	43.6	56.7	60.3	56.7	70.0+	63.3	60.0	58.7	62.7	58.7
Pa872	22	41.7	62.7	60.0	54.3	60.0	60.0	48.3	59.3	52.5	55.4
FR16	23	44.4	109.3	78.7	61.7	46.7	63.3	46.7	50.3	61.0	62.4
FR20	24	77.4	91.7	96.7	82.7	58.3	83.3	76.7	79.7	72.8	79.9
FR21	25	72.3	71.0	95.7	89.3	73.3	90.0	63.3	71.3	64.3	76.7
H60	26	59.8	73.3	86.7	81.7	65.0	75.0	60.0	69.3	58.4	69.9
H84	27	43.4	84.0	56.0	68.3	56.7	68.3	40.0	54.0	77.0	60.9
H93	28	70.8	103.0	78.3	85.0	71.7	81.7	63.3	74.7	72.0	77.8
H98	29	62.9	93.3	80.0	80.0	67.5+	75.0	55.0	74.7	72.0	73.6
H100	30	60.9	92.3	80.7	78.3	66.7	76.7	73.3	68.3	71.1	74.3
H102	31	75.8	95.0	84.7	86.7	73.3	70.0	75.0	83.3	67.7	79.1
H103	32	84.2	56.7	108.7	102.3	86.7	88.3	91.7	95.3	90.6	89.4
Mean		65.5	82.5	84.0	80.9	68.5	79.5	66.5	73.5	73.2	74.9
LSD 0.05		7.1	14.1	15.9	10.5	9.4	8.0	13.3	10.8	20.3	7.9
CV%		6.6	10.4	11.6	7.9	8.4	6.2	12.2	9.0	17.0	19.7

\* Check entry.

+ Data missing from one replication.

Table 54. Moisture (percent) evaluation of the 700-800 maturity inbred lines.

Entry	No.	IA	IL	IN#	KY	MI	PA	Mean
B73 *	1	21.4	16.7	19.1	8.1	43.3	41.6	25.4
Mo17 *	2	23.0	16.3	16.8	6.9	48.4	38.8	25.5
N28Ht *	3	25.0	19.2	23.1	8.9	40.6	46.0	27.4
B68	4	30.7	20.5	20.1	14.6	57.0	52.2	33.3
B75	5	17.4	14.8	17.8	7.0	39.7	42.3	23.5
B76	6	24.2	15.1	16.2	6.5	41.0	44.3	25.0
B77	7	18.4	16.5	17.6	8.1	46.6	43.1	25.5
B79	8	28.8	17.9	18.3	6.4	49.0	56.3	30.1
B84	9	21.7	16.0	18.8	8.0	45.4	50.0	27.1
Mo14W	10	34.8	12.3++	0.0	10.5	59.8	66.1	35.1
Mo20W	11	26.3	15.8	19.4	9.6	36.9	40.6	25.1
Mo40	12	13.6	16.7	15.9	6.1	41.0	44.4	23.4
Mo42	13	14.0	15.9	14.0	5.1	32.6	35.0	19.7
N132	14	24.0	16.0	18.7	7.2	37.8	41.9	24.6
N139	15	28.1	15.5	17.3	6.8	46.3	47.9	27.5
N152	16	19.7	14.5	16.9	6.4	38.1	40.0	22.9
Oh509A	17	28.2	14.1	18.4	6.2	41.8	47.8	26.5
Oh514	18	27.8	15.5	19.4	13.9	35.3	37.0	25.1
Pa91	19	28.4	18.2	21.3	13.3	48.1	44.4	29.4
Pa762	20	16.9	14.2	18.4	6.7	35.7	42.1	22.6
Pa871	21	9.0	13.5	12.8	4.7+	28.2	21.3	15.7
Pa872	22	12.2	12.3	13.3	5.3	28.5	33.3	17.7
FR16	23	22.4	17.2	17.4	8.1	35.5	41.0	24.0
FR20	24	16.7	15.3	16.0	5.5	34.8	40.9	21.9
FR21	25	17.5	15.6	18.3	8.9	39.1	41.5	23.8
H60	26	19.5	14.1	13.5	4.9	53.2	51.0	26.8
H84	27	15.0	16.7	17.9	9.0	41.7	35.2	22.9
H93	28	35.3	16.2+	17.0	8.6	50.6	52.5	31.7
H98	29	15.7	15.2	16.1	6.3+	39.4	40.5	23.6
H100	30	17.3	16.1	16.8	8.8	44.6	50.5	26.2
H102	31	32.2	16.2+	20.3	10.5	48.9	52.8	31.6
H103	32	18.4	14.5	18.0	7.3	45.3	44.9+	23.9
Mean		22.0	15.8	17.0	8.0	42.3	44.0	25.4
LSD 0.05		3.6	3.1	1.6	1.8	3.0	7.4	5.0
CV%		10.1	12.0	4.6	13.7	4.3	10.3	29.2

\* Check entry.

+ Data missing from one replication.

++ Data missing from two replications.

# Data from two replications.

Table 55. Days-to-tassel evaluation of the 700-800 maturity inbred lines.

Entry	No.	IA	IA(H)	IL	KY	MO	PA	Mean
B73 *	1	93.3	69.3	84.0	74.3	81.7	80.7	80.6
Mo17 *	2	92.0	70.0	82.3	70.7	80.0	79.0	79.0
N28H† *	3	93.3	66.7	86.3	75.7	82.7	81.0	80.9
B68	4	98.0	68.0	89.7	78.3	87.7	82.3	84.0
B75	5	91.0	67.3	81.0	68.0	80.3	78.3	77.7
B76	6	91.7	66.7	80.0	71.0	81.0	75.7	77.7
B77	7	93.3	68.3	86.7	77.3	82.7	80.0	81.4
B79	8	95.7	69.0	86.7	78.3	84.3	81.7	82.6
B84	9	94.7	67.0	82.7	76.3	84.7	82.0	81.2
Mo14W	10	104.3	70.7	94.7	83.3	85.3	89.7	88.0
Mo20W	11	93.3	69.3	79.3	73.0	81.7	74.3	78.5
Mo40	12	93.3	68.0	85.7	77.0	82.0	81.3	81.2
Mo42	13	90.3	79.0	77.3	67.3	78.3	71.0	77.2
N132	14	96.0	68.0	82.0	72.7	81.3	78.0	79.7
N139	15	93.7	72.0	84.3	75.0	80.7	76.7	80.4
N152	16	90.7	70.3	82.3	72.3	80.0	75.3	78.5
Oh509A	17	94.0	68.0	85.3	76.3	84.0	79.3	81.2
Oh514	18	95.0	70.3	86.3	74.7	83.3	82.0	81.9
Pa91	19	94.3	72.0	90.0	77.7	84.0	81.3	83.2
Pa762	20	90.3	71.0	84.0	76.3	82.0	79.0	80.4
Pa871	21	88.7	68.0	81.0	72.5+	78.3	72.7	77.1
Pa872	22	89.7	70.3	84.7	71.0	79.7	74.7	78.3
FR16	23	90.3	68.0	84.0	73.7	80.3	74.3	78.4
FR20	24	91.0	68.0	83.0	68.3	80.0	74.3	77.4
FR21	25	92.3	69.0	83.0	72.3	79.7	79.0	79.2
H60	26	98.3	68.7	86.0	77.7	82.0	80.0	82.1
H84	27	89.3	70.7	81.0	71.7	78.7	74.3	77.6
H93	28	94.3	68.0	83.7	74.0	80.7	79.3	80.0
H98	29	90.7	70.0	83.7	73.0+	81.7	75.3	79.4
H100	30	95.0	70.0	85.0	72.7	83.0	79.7	80.9
H102	31	98.0	70.0	87.7	76.7	83.7	83.0	83.2
H103	32	93.3	68.0	85.0	75.0	83.3	84.3	81.5
Mean		93.4	69.4	84.3	74.2	81.8	78.7	80.3
LSD 0.05		2.1	2.4	5.6	2.3	2.3	2.3	2.5
CV%		1.4	2.1	4.1	1.9	1.8	1.8	4.7

\* Check entry.

+ Data missing from one replication.

Table 56. Days-to-silk evaluation of the 700-800 maturity inbred lines.

Entry	No.	IA	IA(H)	IL	KY	MI	PA	TX	Mean
B73 *	1	93.7	69.0	83.0	75.7	91.3	84.0	72.7	81.3
Mo17 *	2	94.3	69.7	86.7	74.7	91.3	84.7	73.7	82.1
N28H+ *	3	94.0	67.7	86.7	75.0	87.7	84.3	73.0	81.2
B68	4	100.0	68.3	92.0	84.3	91.0	89.0	77.0	86.0
B75	5	93.0	68.0	83.7	71.7	87.7	86.7	70.7	80.2
B76	6	92.7	70.0	80.0	73.0	85.0	79.7	70.3	78.7
B77	7	94.0	70.0	87.3	78.7	89.7	84.0	73.7	82.5
B79	8	96.7	74.7	86.7	79.0	89.7	86.3	79.0	84.6
B84	9	96.3	68.3	84.0	77.3	93.7	86.7	73.3	82.8
Mo14W	10	105.0	76.7	98.0	87.3	93.3	98.0	82.7	91.6
Mo20W	11	94.7	70.3	81.3	74.0	85.3	79.7	70.3	79.4
Mo40	12	95.0	68.0	87.7	77.7	89.0	87.0	76.0	82.9
Mo42	13	91.3	83.7	78.7	69.0	83.7	76.0	69.7	78.9
N132	14	96.7	69.0	83.7	74.0	86.7	82.0	74.3	80.9
N139	15	96.0	75.0	85.7	77.3	88.0	84.3	73.3	82.8
N152	16	93.0	67.7	83.7	75.0	86.3	79.7	71.3	79.5
Oh509A	17	95.7	69.7	86.7	77.3	89.7	85.3	73.7	82.6
Oh514	18	95.0	70.3	86.3	75.0	90.3	82.7	75.3	82.1
Pa91	19	96.7	78.0	91.3	80.0	90.7	85.7	79.0	85.9
Pa762	20	91.0	71.0	84.0	77.0	85.7	81.3	74.7	80.7
Pa871	21	89.0	69.0	83.0	73.5+	84.3	78.0	69.0	78.2
Pa872	22	91.7	72.7	85.7	73.7	85.7	81.3	70.0	80.1
FR16	23	92.7	68.3	84.7	75.0	86.7	80.7	72.7	80.1
FR20	24	94.0	69.0	85.0	74.0	88.0	83.0	72.7	80.8
FR21	25	93.7	71.0	84.3	74.3	90.7	86.7	70.7	81.6
H60	26	101.7	70.0	90.7	79.7	88.7	86.3	72.3	84.2
H84	27	92.3	74.0	84.3	73.7	89.0	81.0	73.3	81.1
H93	28	98.3	70.3	88.3	78.0	90.0	86.3	77.7	84.1
H98	29	90.7	70.3	84.3	75.5+	86.0	80.7	72.3	80.2
H100	30	95.7	73.0	84.3	76.0	90.7	84.0	75.3	82.7
H102	31	99.0	70.3	89.0	79.3	90.3	90.0	77.0	85.0
H103	32	95.3	76.7	86.3	76.7	90.7	93.7	74.7	84.9
Mean		95.0	71.2	85.8	76.4	88.6	84.3	73.8	82.2
LSD 0.05		1.9	3.9	6.1	2.5	2.4	2.8	2.8	2.5
CV%		1.2	3.3	4.4	2.0	1.6	2.1	2.3	5.0

\* Check entry.

+ Data missing from one replication.

Table 57. Ear row number evaluation of the 700-800 maturity inbred lines.

Entry	No.	IA	IL	KY	PA	Mean
B73 *	1	16.8	17.6	17.7	17.1	17.3
Mo17. *	2	11.1	11.6	10.7	10.8	11.0
N28H† *	3	15.8	15.7	15.7	16.0	15.8
B68	4	14.9	14.7	12.7	14.4	14.2
B75	5	15.1	15.1	14.3	13.7	14.6
B76	6	13.0	13.6	13.7	12.7	13.2
B77	7	13.8	12.9	12.0	13.3	13.0
B79	8	16.3	17.3	17.3	16.0	16.7
B84	9	14.7	14.9	14.0	14.4	14.5
Mo14W	10	19.3	17.0	16.7	16.7	17.4
Mo20W	11	17.3	16.3	16.7	17.1	16.8
Mo40	12	14.6	14.7	14.7	14.6	14.6
Mo42	13	10.9	11.3	11.0	10.6	10.9
N132	14	16.5	17.2	17.3	15.9	16.7
N139	15	17.5	17.6	17.0	16.2	17.1
N152	16	18.6	18.8	17.7	17.3	18.1
Oh509A	17	13.8	13.5	13.7	13.4	13.6
Oh514	18	13.5	13.6	13.7	13.5	13.5
Pa91	19	16.5	16.5	15.7	15.5	16.0
Pa762	20	14.6	14.7	14.3	14.3	14.5
Pa871	21	13.2	12.9	13.5+	12.5	13.0
Pa872	22	13.3	14.3	13.7	14.4	13.9
FR16	23	12.1	12.3	12.7	12.5	12.4
FR20	24	12.1	11.2	11.3	10.6	11.3
FR21	25	14.0	13.9	14.0	12.5	13.6
H60	26	11.5	11.9	11.3	11.3	11.5
H84	27	16.7	16.4	17.3	14.7	16.3
H93	28	12.5	13.0	13.3	13.1	13.0
H98	29	13.7	14.9	14.0+	14.7	14.4
H100	30	14.1	14.3	14.0	13.1	13.9
H102	31	12.5	13.5	12.0	11.4	12.4
H103	32	13.7	14.5	13.7	13.0+	13.8
Mean		14.5	14.6	14.3	14.0	14.4
LSD 0.05		1.0	1.2	1.2	1.5	0.8
CV%		4.3	4.9	5.2	6.4	6.5

\* Check entry.

+ Data missing from one replication.

Table 58. Ear length (cm) evaluation of the 700-800 maturity inbred lines.

Entry	No.	IA	IL	KY	PA	Mean
B73 *	1	14.6	15.3	14.0	13.2	14.3
Mo17 *	2	19.2	19.4	17.4	17.1	18.3
N28H† *	3	14.5	13.7	14.8	13.4	14.1
B68	4	17.8	18.5	18.8	17.5	18.2
B75	5	13.4	14.0	12.5	10.5	12.6
B76	6	15.2	15.4	14.5	15.0	15.0
B77	7	14.0	15.3	15.5	14.5	14.8
B79	8	11.8	13.8	14.2	12.6	13.1
B84	9	17.1	17.8	16.0	14.1	16.2
Mo14W	10	13.4	14.3	14.0	14.6	14.1
Mo20W	11	10.1	13.4	13.5	13.3	12.6
Mo40	12	17.1	15.9	14.9	12.8	15.2
Mo42	13	18.9	19.2	17.3	17.6	18.2
N132	14	14.3	17.3	16.0	15.4	15.7
N139	15	15.3	16.1	15.6	13.3	15.1
N152	16	16.9	17.5	17.2	15.6	16.8
Oh509A	17	13.7	14.3	14.5	13.6	14.0
Oh514	18	14.4	15.6	14.7	14.1	14.7
Pa91	19	18.5	18.0	17.4	15.6	17.4
Pa762	20	14.3	15.0	16.2	14.4	15.0
Pa871	21	18.0	18.6	17.9+	17.3	18.0
Pa872	22	17.4	17.3	17.4	15.7	17.0
FR16	23	14.3	14.4	14.6	13.1	14.1
FR20	24	20.6	19.4	18.2	17.0	18.8
FR21	25	21.1	21.2	18.5	17.6	19.6
H60	26	14.7	16.4	17.1	14.9	15.8
H84	27	13.9	14.5	14.2	14.3	14.2
H93	28	15.4	15.4	15.8	13.8	15.1
H98	29	17.5	18.1	15.5+	17.3	17.2
H100	30	15.8	16.1	16.3	16.1	16.1
H102	31	17.5	16.7	16.1	12.2	15.6
H103	32	14.1	16.8	15.4	13.3+	15.1
Mean		15.8	16.4	15.8	14.7	15.7
LSD 0.05		1.2	1.3	1.5	2.0	1.3
CV%		4.5	4.8	5.5	8.3	10.2

\* Check entry.

+ Data missing from one replication.

Table 59. Ear diameter (cm) evaluation of the 700-800 maturity inbred lines.

Entry	No.	IA	IL	KY	PA	Mean
B73 *	1	4.5	4.9	4.4	3.9	4.4
Mo17 *	2	3.7	3.9	3.8	3.4	3.7
N28H† *	3	4.3	4.4	4.2	3.8	4.2
B68	4	4.0	3.8	3.5	3.3	3.6
B75	5	3.9	4.0	4.0	3.4	3.8
B76	6	4.4	4.5	4.1	3.8	4.2
B77	7	3.6	3.7	3.5	3.3	3.5
B79	8	4.1	4.3	4.2	3.7	4.0
B84	9	4.3	4.6	2.8	3.7	3.8
Mo14W	10	4.1	3.8	4.0	3.2	3.8
Mo20W	11	4.4	4.5	4.3	4.1	4.3
Mo40	12	4.0	4.1	4.0	3.6	3.9
Mo42	13	3.7	3.8	3.5	3.4	3.6
N132	14	4.2	4.6	4.4	3.9	4.3
N139	15	4.5	4.7	4.3	3.9	4.4
N152	16	4.7	5.0	4.7	4.2	4.6
Oh509A	17	4.1	4.1	4.0	3.7	4.0
Oh514	18	4.1	4.1	4.0	3.6	4.0
Pa91	19	4.1	4.2	4.1	3.7	4.1
Pa762	20	4.4	4.4	4.2	3.8	4.2
Pa871	21	3.6	3.7	3.6+	3.2	3.5
Pa872	22	3.5	3.7	3.6	3.6	3.6
FR16	23	3.8	3.8	3.6	3.5	3.7
FR20	24	4.0	3.9	3.8	3.4	3.8
FR21	25	3.8	4.0	3.7	3.2	3.7
H60	26	4.0	4.0	4.2	3.6	3.9
H84	27	4.2	4.4	4.2	3.5	4.1
H93	28	4.0	3.8	3.9	3.5	3.8
H98	29	4.0	4.3	3.7+	3.7	3.9
H100	30	4.0	4.1	3.9	3.5	3.9
H102	31	3.8	4.0	3.6	3.0	3.6
H103	32	3.9	4.1	4.0	3.5+	3.9
Mean		4.1	4.2	3.9	3.6	3.9
LSD 0.05		0.2	0.3	0.7	0.3	0.2
CV%		2.8	4.2	11.2	4.7	7.7

\* Check entry.

+ Data missing from one replication.

Table 60. Three-hundred kernel weight (g) evaluation of the 700-800 maturity inbred lines.

Entry	No.	IA	IL	KY	PA	Mean
B73 *	1	74.7	84.0	67.3	57.0	70.8
Mo17 *	2	93.7	106.3	101.3	76.0	94.3
N28H† *	3	65.3	84.0	71.3	57.7	69.6
B68	4	71.3	80.0	78.3	65.3	73.8
B75	5	74.0	93.7	87.0	78.3	83.3
B76	6	94.3	105.0	92.0	81.0	93.1
B77	7	53.3	79.3	73.3	55.7	65.4
B79	8	72.7	80.0	80.0	61.0	73.4
B84	9	89.0	103.3	81.3	65.3	84.8
Mo14W	10	46.7	82.7	64.0	41.3	58.7
Mo20W	11	56.7	64.7	58.7	60.3	60.1
Mo40	12	56.3	71.0	64.0	66.3	64.4
Mo42	13	79.0	94.7	84.3	87.0	86.3
N132	14	62.3	81.7	66.3	63.3	68.4
N139	15	66.7	73.3	67.0	58.0	66.3
N152	16	71.7	96.3	80.0	71.3	79.8
Oh509A	17	74.7	91.0	84.0	74.0	80.9
Oh514	18	86.0	90.7	85.0	77.7	84.8
Pa91	19	70.0	87.7	81.3	63.0	75.5
Pa762	20	78.0	88.3	81.0	72.0	79.8
Pa871	21	46.3	71.7	69.0+	48.0	57.8
Pa872	22	48.7	73.3	71.0	51.3	61.1
FR16	23	73.0	86.3	73.7	71.7	76.2
FR20	24	83.3	95.7	89.0	79.7	86.9
FR21	25	65.7	81.7	60.3	53.0	65.2
H60	26	88.0	105.0	95.0	85.0	93.3
H84	27	63.0	78.3	72.3	56.7	67.6
H93	28	105.0	110.7	98.0	81.3	98.8
H98	29	81.0	90.7	76.0+	73.7	80.7
H100	30	77.0	98.0	92.3	74.0	85.3
H102	31	69.3	80.3	74.7	66.3	72.7
H103	32	88.0	99.3	101.7	76.5+	92.7
Mean		72.6	87.8	78.9	67.1	76.6
LSD 0.05		6.9	7.5	8.0	8.9	7.5
CV%		5.8	5.2	6.2	8.1	12.1

\* Check entry.

+ Data missing from one replication.



Table 61. Stalk crushing strength (load-kg) evaluation of the 700-800 maturity inbred lines.

Entry	No.	MO
B73 *	1	379.5
Mo17 *	2	299.7
N28H† *	3	244.9
B68	4	553.5
B75	5	402.2
B76	6	496.8
B77	7	240.4
B79	8	397.7
B84	9	332.0
Mo14W	10	456.9
Mo20W	11	229.4
Mo40	12	418.2
Mo42	13	175.4
N132	14	384.4
N139	15	273.7
N152	16	233.3
Oh509A	17	366.2
Oh514	18	547.3
Pa91	19	372.7
Pa762	20	231.6
Pa871	21	251.0
Pa872	22	241.6
FR16	23	174.2
FR20	24	285.8
FR21	25	235.9
H60	26	302.4
H84	27	355.3
H93	28	518.6
H98	29	284.9
H100	30	365.9
H102	31	300.3
H103	32	362.9
Mean		338.4
LSD 0.05		116.3
CV%		21.3

\* Check entry.

Table 62. Bacterial wilt susceptibility evaluation of the 700-800 maturity inbred lines.

Entry	No.	Stewart's	Goss'
		wilt MO	wilt NE
		(1-5)	(1-9)
B73 *	1	3.3	1.3
Mo17 *	2	1.3	3.0
N28H† *	3	2.3	2.7
B68	4	3.0	1.0
B75	5	.	1.3
B76	6	.	1.0
B77	7	2.0	1.3
B79	8	2.0+	2.0
B84	9	2.0	1.0
Mo14W	10	3.0++	2.7
Mo20W	11	1.0	1.0
Mo40	12	.	2.3
Mo42	13	2.7	4.0
N132	14	1.0++	1.3
N139	15	3.0	1.3
N152	16	3.0+	3.3
Oh509A	17	.	1.3
Oh514	18	3.0++	1.0
Pa91	19	1.0	1.7
Pa762	20	2.0	1.0
Pa871	21	2.0	1.0
Pa872	22	2.0++	1.0
FR16	23	1.0	1.0
FR20	24	1.7	1.0
FR21	25	2.7	1.0
H60	26	1.0	1.3
H84	27	2.3	2.7
H93	28	2.0	1.0
H98	29	1.0	1.0
H100	30	3.0	1.0
H102	31	1.7	1.7
H103	32	2.7	1.0
Mean		2.1	1.6
LSD 0.05		0.6	NS
CV%		17.5	

\* Check entry.

+ Data missing from one replication.

++ Data missing from two replications.

Table 63. Ear rot susceptibility evaluation of the 700-800 maturity  
Inbred lines.

Entry	No.	<u>Gibberella</u> MI
		(0-5)
B73 *	1	2.4
Mo17 *	2	2.1
N28Ht *	3	3.3
B68	4	4.7
B75	5	3.5
B76	6	1.0
B77	7	3.8
B79	8	4.4
B84	9	3.5
Mo14W	10	3.6
Mo20W	11	5.0
Mo40	12	4.1
Mo42	13	1.2
N132	14	3.5
N139	15	2.7
N152	16	3.2
Oh509A	17	2.6
Oh514	18	3.1
Pa91	19	4.4
Pa762	20	2.9
Pa871	21	3.0
Pa872	22	2.9
FR16	23	3.1
FR20	24	1.3
FR21	25	3.8
H60	26	3.5
H84	27	3.2
H93	28	4.2
H98	29	3.4
H100	30	3.0
H102	31	1.5
H103	32	4.1
Mean		3.2
LSD 0.05		1.5
CV%		28.1

\* Check entry.

Table 64. Fungal leaf disease susceptibility evaluation of the 700-800 maturity inbred lines.

Entry	No.	Eye-spot MI	North.	Southern		Northern leaf blight			
			leaf spot MI	leaf Date 1 IL	leaf Date 2 IL	MI	Race 1 IL	Race 2 IL	Race 2 PA
		(1-5)	(1-5)	(%LA#)	(%LA)	(1-5)	(%LA)	(%LA)	(1-5)
B73 *	1	2.7	3.0	16.7	53.3	3.3	5.5	5.8	2.5
Mo17 *	2	3.0	2.0	10.0	20.0	1.0	1.3	1.3	0.7
N28Ht *	3	2.7	2.0	26.7	66.7	1.7	3.5+	16.3	2.3
B68	4	1.7	1.0	6.7	20.0	1.7	7.8+	7.8	0.7
B75	5	2.7	2.0	5.0	16.7	1.7	2.5+	2.0+	1.0
B76	6	3.0	2.0	8.3	20.0	2.3	4.0++	4.7	2.3
B77	7	1.7	1.3	8.3	36.7	1.7	2.3	4.3	0.8
B79	8	2.7	2.0	16.7	70.0	2.3	3.5+	9.7	2.7
B84	9	2.7	2.0	16.7	83.3	2.3	5.0	11.5	1.5
Mo14W	10	4.0	1.3	20.0	40.0	1.3	3.0	9.2	0.5
Mo20W	11	3.0	2.7	5.0	20.0	1.7	2.0	4.0	1.7
Mo40	12	2.7	2.0	16.7	23.3	2.0	2.5+	4.2	0.7
Mo42	13	2.7	1.3	5.0	16.7	2.0	3.0	3.0+	1.3
N132	14	2.7	2.0	30.0+	60.0+	2.0	5.3+	7.3	2.0
N139	15	3.0	2.3	10.0	73.3	5.0	14.5+	20.8	2.0
N152	16	3.0	3.0	13.3	56.7	5.0	4.0	13.3	1.2
Oh509A	17	1.7	1.7	6.7	16.7	3.0	3.0	6.3	0.5
Oh514	18	3.0	2.0	8.3	23.3	1.3	4.0+	5.5	0.8
Pa91	19	3.3	2.3	6.7	16.7	2.7	9.2	12.0	0.8
Pa762	20	2.3	2.0	6.7	6.7	2.0	2.7	3.3	1.3
Pa871	21	2.7	2.7	6.7	16.7	2.0	4.3+	1.7	1.8
Pa872	22	3.0	3.0	10.0	10.0	2.3	7.0++	5.0+	2.0
FR16	23	3.3	3.0	8.3	10.3	1.7	1.3	1.7	1.3
FR20	24	3.0	1.7	5.0	20.0	1.0	3.3	2.7	0.8
FR21	25	4.0	2.0	6.7	20.0	1.7	3.0	3.8	1.0
H60	26	2.7	1.0	20.0	40.0	1.0	1.0+	1.0	0.5
H84	27	2.3	1.7	6.7	10.0	1.0	3.5+	13.5+	2.0
H93	28	2.7	2.0	6.7	16.7	1.7	2.7	8.3+	1.3
H98	29	3.3	2.3	10.0	36.7	2.7	4.0+	14.3	1.3
H100	30	3.3	2.7	20.0	70.0	4.7	26.2	28.3	2.5
H102	31	1.7	1.7	6.7	20.0	1.0	1.0++	1.0+	1.2
H103	32	2.3	3.3	16.7	66.7	2.3	5.3+	3.5+	2.3
Mean		2.8	2.1	11.3	33.4	2.2	4.8	7.6	1.4
LSD 0.05		0.8	0.8	6.1	13.4	0.7	4.8	7.1	0.8
CV%		18.8	22.1	33.1	24.5	20.3	59.9	57.1	35.2

\* Check entry.

+ Data missing from one replication.

++ Data missing from two replications.

# Represents percent of leaf area infected.

Table 65. Smut susceptibility evaluation of the 700-800 maturity Inbred lines.

Entry	No.	Head infct. TX
		(%)
B73 *	1	0.0
Mo17 *	2	0.0
N28H† *	3	1.3
B68	4	0.0
B75	5	1.3
B76	6	5.7
B77	7	0.0
B79	8	0.0
B84	9	0.0
Mo14W	10	4.4
Mo20W	11	1.3
Mo40	12	1.1
Mo42	13	5.8
N132	14	4.4
N139	15	2.2
N152	16	5.0
Oh509A	17	1.1
Oh514	18	0.0
Pa91	19	15.3
Pa762	20	0.0
Pa871	21	1.3
Pa872	22	3.3
FR16	23	1.7
FR20	24	0.0
FR21	25	1.1
H60	26	3.3
H84	27	0.0
H93	28	4.4
H98	29	2.2
H100	30	0.0
H102	31	4.1
H103	32	0.0
Mean		2.2
LSD 0.05		6.7
CV%		185.6

\* Check entry.

Table 66. Stalk rot susceptibility evaluation of the 700-800 maturity inbred lines.

Entry	No.	Anthracnose					
		Rating			Intnd. > 50% Infct. Infct.		Diplo. rating
		MI	IL	Mean	IL	IL	IL
		(1-5)	(1-5)	(1-5)	No.	No.	(1-5)
B73 *	1	2.3	2.0	2.2	3.5	1.9	4.7
Mo17 *	2	1.3	3.7	2.5	1.9	0.6	2.0
N28H+ *	3	1.3	3.3	2.3	2.9	1.3	2.4
B68	4	1.0	1.0	1.0	3.2	1.4	2.0
B75	5	1.0	1.0	1.0	1.5	0.6	2.1
B76	6	1.7	2.0	1.8	3.7	2.8	3.0
B77	7	2.0	4.0	3.0	4.0	3.2	3.8
B79	8	1.7	2.0	1.8	2.8	1.7	4.3
B84	9	2.0	3.0	2.5	2.0	1.0	3.2
Mo14W	10	1.3	1.0	1.2	1.4	0.2	1.9
Mo20W	11	2.7	4.0	3.3	2.6	1.1	3.1
Mo40	12	2.0	2.3	2.2	1.7	0.6	2.2
Mo42	13	1.3	3.7	2.5	3.4	2.6	3.7
N132	14	2.3	.	2.3	3.0	2.3	2.2
N139	15	2.7	3.7	3.2	3.6	2.7	2.2
N152	16	2.7	4.0	3.3	3.4	2.6	3.9
Oh509A	17	1.7	1.7	1.7	3.7	3.1	2.6
Oh514	18	1.0	1.0	1.0	3.1	1.3	1.6
Pa91	19	2.3	3.0	2.7	3.3	2.0	4.5
Pa762	20	2.3	3.0	2.7	2.4	0.7	2.6
Pa871	21	2.3	3.7	3.0	2.0	0.5	2.0
Pa872	22	3.0	3.0	3.0	1.9++	0.4++	1.4+
FR16	23	2.7	1.7	2.2	2.0	1.1	3.2
FR20	24	1.7	3.0	2.3	1.6	0.7	1.9
FR21	25	2.0	3.3	2.7	3.9	3.0	1.7
H60	26	1.0	3.0	2.0	3.0	1.5	4.2
H84	27	1.3	2.0	1.7	2.9	1.8	2.5
H93	28	1.3	3.0	2.2	3.9	2.3	4.7
H98	29	3.3	2.7	3.0	1.7	0.6	3.1
H100	30	2.3	1.7	2.0	2.5	0.7	1.7
H102	31	1.0	2.7	1.8	3.0	2.0	2.1
H103	32	2.3	1.3	1.8	2.4	1.2	2.7
Mean		1.9	2.6	2.2	2.8	1.6	2.8
LSD 0.05		0.7	0.8	NS	0.6	0.6	0.8
CV%		23.8	18.9		14.0	22.5	18.4

\* Check entry.  
+ Data missing from one replication.  
++ Data missing from two replications.

Table 67. Virus susceptibility evaluation of the 700-800 maturity inbred lines.

Entry	No.	MCDV	MDMV			MDMV	CLN	Virus
		OH	IL	OH	Mean	rating	rating	rating
		(%)	(%)	(%)	(%)	(1-5)	(1-9)	(1-5)
B73 *	1	88.2	84.7	78.9	81.8	2.7	7.0	4.0
Mo17 *	2	80.0	87.0	81.3	84.2	4.0	6.3	4.0
N28H† *	3	71.0	100.0	52.1	76.0	4.0	6.3	3.0
B68	4	44.6	8.3	12.5	10.4	1.0	7.0	2.7
B75	5	48.9	83.8	50.0	66.9	3.3	8.3	3.7
B76	6	61.6	100.0	50.3	75.1	4.0	6.7	3.0
B77	7	32.9	76.2	81.3	78.7	3.0	7.0	3.7
B79	8	67.9	.	70.1	70.1	.	7.0	3.3
B84	9	83.5	85.7	58.1	71.9	3.0	7.3	3.3
Mo14W	10	36.3	88.9	63.4	76.1	3.0	8.7	3.0
Mo20W	11	38.2	27.3	0.0	13.7	1.7	7.7	2.3
Mo40	12	49.1	91.7	53.8	72.7	3.3	8.0	3.3
Mo42	13	53.1	86.1	47.2	66.7	3.3	9.0	3.0
N132	14	50.8	52.2	3.3	27.8	2.7	8.7	3.0
N139	15	38.2	68.6	17.6	43.1	2.3	7.0	2.7
N152	16	37.5	100.0	71.8	85.9	3.7	6.3	2.7
Oh509A	17	57.1	87.8	28.6	58.2	3.7	7.0	3.0
Oh514	18	27.3	59.4	0.0	29.7	2.7	8.0	2.7
Pa91	19	50.3	81.9	89.4	85.7	3.3	6.3	3.7
Pa762	20	100.0	100.0	100.0	100.0	3.7	6.7	4.0
Pa871	21	73.6	83.8	77.7	80.8	2.3	8.0	4.0
Pa872	22	.	80.0	.	80.0	2.3	7.0	.
FR16	23	100.0	95.2	80.4	87.8	3.3	7.7	4.0
FR20	24	58.8	100.0	77.4	88.7	3.7	7.7	3.3
FR21	25	81.6	86.3	96.9	91.6	2.7	7.7	3.7
H60	26	90.0	84.1	91.1	87.6	3.3	6.7	4.0
H84	27	74.1	95.8	30.8	63.3	4.0	5.7	3.7
H93	28	83.3	100.0	77.8	88.9	4.0	7.3	3.7
H98	29	76.8	100.0	96.9	98.4	3.7	6.3	4.0
H100	30	81.7	94.4	79.2	86.8	3.7	6.7	3.7
H102	31	87.1	90.5	97.2	93.8	4.0	8.0	4.0
H103	32	84.4	91.7	88.5	90.1	4.0	7.7	4.0
Mean		64.8	83.0	61.4	72.2	3.2	7.3	3.4
LSD 0.05		15.2	25.3	15.0	33.5	1.0	NS	0.7
CV%		14.4	18.7	14.9	39.2	19.9		12.2

\* Check entry.

Table 68. Insect susceptibility evaluation of the 700-800 maturity Inbred lines.

Entry	No.	ECB		CEW	FAW# GA
		First IA	Second IA	tunl. GA	
		(1-9)	(1-9)	(cm)	(0-9)
B73 *	1	7.3	8.0	11.3	5.6
Mo17 *	2	7.3	8.0	11.4	6.1
N28H† *	3	5.0	7.0	9.7	6.2
B68	4	5.0	7.0	13.9	6.1
B75	5	2.0	8.0	8.5	5.2
B76	6	7.0	7.7	12.7	6.3
B77	7	5.0	8.3	8.9	6.1
B79	8	5.0	6.3	11.1	5.8
B84	9	6.3	7.7	11.1	6.3
Mo14W	10	2.0	7.3	11.2	4.8
Mo20W	11	9.0	7.5+	8.7	6.2
Mo40	12	6.7	7.0	9.9	7.1
Mo42	13	8.3	8.3	13.8	5.9
N132	14	2.0+	8.0	10.2	6.0
N139	15	4.3	5.7	9.6	6.5
N152	16	7.3	7.0	10.1	6.4
Oh509A	17	8.3	7.3	13.2	4.9
Oh514	18	9.0	8.0	10.7	6.2
Pa91	19	6.3	6.3	11.9	5.4
Pa762	20	2.7	9.0	10.0	6.8
Pa871	21	2.7	7.3	12.2	5.6
Pa872	22	2.5+	8.7	12.9	6.3
FR16	23	2.3	7.0	10.7	5.6
FR20	24	5.7	8.7	11.5	6.8
FR21	25	3.0	7.3	10.4	5.9
H60	26	3.7	7.7	11.3	5.9
H84	27	5.7	7.0	7.9	6.1
H93	28	4.7	7.3	11.1	5.9
H98	29	6.3	8.3	10.4	5.5
H100	30	4.0	6.0	11.3	6.0
H102	31	3.7	7.3	10.8	5.3
H103	32	3.0	8.0	10.5	5.7
Mean		5.2	7.5	10.9	6.0
LSD 0.05		2.4	1.3	3.0	NS
CV%		29.0	10.3	16.9	

\* Check entry.

+ Data missing from one replication.

# Data from four replications.



Table 69. Trifluralin tolerance index for 700-800 maturity inbred lines. High values represent high levels of tolerance.

Entry	No.	Incorporation depth 7.5 cm			Incorporation depth 15.0 cm		
		1982#	1983#	Mean	1982#	1983#	Mean
		B73 *	1	35.5	33.3	34.4	45.8
Mo17 *	2	33.1	27.5	30.3	49.2	53.5	51.3
N28H† *	3	28.3	51.9	40.1	45.1	50.8	47.9
B68	4	26.8	2.8	14.8	27.6	4.5	16.0
B75	5	30.1	20.1	25.1	51.1	51.5	51.3
B76	6	36.3	33.3	34.8	46.8	38.8	42.8
B77	7	13.9	20.1	17.0	39.5	43.3	41.4
B79	8	27.9	30.4	29.2	35.8	50.9	43.3
B84	9	6.7	22.1	14.4	44.3	35.9	40.1
Mo14W	10	15.9	10.7	13.3	38.9	23.3	31.1
Mo20W	11	43.8	17.1	30.4	46.3	36.0	41.1
Mo40	12	19.9	9.5	14.7	27.1	28.7	27.9
Mo42	13	35.8	14.9	25.3	52.6	37.4	45.0
N132	14	24.8	16.7	20.8	31.8	28.0	29.9
N139	15	15.9	9.9	12.9	46.3	32.8	39.6
N152	16	48.4	16.6	32.5	53.2	41.6	47.4
Oh509A	17	43.7	33.1	38.4	66.7	51.0	58.8
Oh514	18	31.1	7.5	19.3	44.2	40.6	42.4
Pa91	19	16.8	12.7	14.8	38.8	36.6	37.7
Pa762	20	37.1	16.5	26.8	54.0	36.0	45.0
Pa871	21	25.6	11.8	18.7	29.3	34.2	31.8
Pa872	22	21.1	33.3	27.2	17.1	33.6	25.4
FR16	23	12.8	16.5	14.6	39.8	38.5	39.2
FR20	24	16.0	25.4	20.7	47.6	44.7	46.1
FR21	25	21.1	24.9	23.0	40.1	40.8	40.5
H60	26	22.4	40.9	31.6	34.1	55.0	44.6
H84	27	35.0	21.3	28.1	63.2	42.1	52.6
H93	28	44.3	32.9	38.6	64.4	48.9	56.6
H98	29	25.5	36.3	30.9	45.7	35.2	40.4
H100	30	25.8	20.0	22.9	22.6	32.8	27.7
H102	31	24.7	1.8	13.2	42.0	0.9	21.4
H103	32	42.5	.	42.5	36.0	.	36.0
Mean		28.1	21.7	24.8	42.4	38.3	40.2
LSD 0.05				NS			18.7
CV%							22.6

\* Check entry.

# Data from one replication.

**COOPERATORS CONTRIBUTING TO THE 900-1000 MATURITY EVALUATION:**  
(In order of character presentation in the tables)

Cooperator	Site code	Organization and location	Characters
York	AR	Univ. of Arkansas, Fayetteville	Agronomic
Poneleit	KY	Univ. of Kentucky, Lexington	Agronomic
Darrah	MO	USDA/Univ. of Missouri, Columbia	Agronomic
Scott	MS	USDA/Mississippi State Univ., Mississippi State	Agronomic
West	TN	Univ. of Tennessee, Knoxville	Agronomic
Bockholt	TX	Texas A&M Univ., College Station	Agronomic
Politowski	MO	Pfizer Genetics, St. Louis	Stewart's wilt
Turner	NE	Funk Seeds International, Clearwater	Goss' wilt
Scott	MS	USDA/Mississippi State Univ., Mississippi State	Downy mildew
White	IL	Univ. of Illinois, Urbana	South. leaf blight North. leaf blight
Scott	MS	USDA/Mississippi State Univ., Mississippi State	South. leaf rust
Bockholt and Frederiksen	TX	Texas A&M Univ., Halfway	Head smut
Findley and Louie	OH	USDA/OARDC, Wooster	MCDV MDMV
Scott	MS	USDA/Mississippi State Univ., Mississippi State	MDMV
Turner	KS	Funk Seeds International, Norton	CLN
Findley and Louie	OH	USDA/OARDC, Wooster	Virus rating
Guthrie	IA	USDA	European corn borer
Widstrom	GA	USDA	Corn ear worm Fall army worm
Scott	MS	USDA/Mississippi State Univ., Mississippi State	Southwestern corn borer

Table 70. Yield (q/ha) evaluation of the 900-1000 maturity inbred lines.

Entry	No.	AR	KY	MS	TN	TX	Mean
Cl66 *	1	25.8	19.7+	19.4	19.8	14.6	19.9
FR802W *	2	18.5	25.3+	21.6	15.0	2.6	16.0
FR805W *	3	27.4	23.2+	28.6	32.9	16.5	25.9
Ga209	4	32.7	13.3+	24.4	42.2	25.5	28.7
Mo17	5	13.5	30.4	24.2	26.5	13.5	21.6
T145	6	9.3	14.2	9.7	9.5	8.6	10.3
T147	7	35.5	13.2	21.5	28.5	12.8	22.3
T151	8	30.0	20.6+	24.7	33.9	25.5	27.4
T153	9	5.4	8.3	6.1	10.8	3.4	6.8
T155	10	27.4	24.6	22.2	35.4	17.6	25.5
T159	11	17.7	13.8	13.3	17.3	25.1	17.5
T250	12	17.3	22.0	33.0	28.5	26.6	25.5
T254	13	13.5	16.5	14.5	17.3	10.1	14.4
T256	14	17.9	16.4	18.6	24.9	20.3	19.6
T258	15	30.8	27.6	32.1	44.7	28.1	32.7
Ar258	16	5.8	7.9	18.6	12.0	6.8	10.2
Ar262	17	29.2	14.4	10.1	.	15.4	17.3
Ar266	18	18.0	20.3	16.5	21.1	13.1	17.8
Tx29A	19	41.7	21.0	36.6	28.3	37.9	33.1
Tx61M	20	33.5	34.2+	29.9	40.9	35.7	34.9
Tx403	21	31.6	19.4	18.1	27.4	2.6	19.8
Tx5855	22	55.3	9.6	15.7+	.	16.5	25.0
Tx6252	23	45.6	11.5	9.9	43.4++	14.6	22.2
Mean		25.4	18.2	20.5	26.1	17.1	21.4
LSD 0.05		8.3	6.4	6.3	9.9	7.1	21.4
CV%		19.9	21.5	18.8	23.0	25.3	57.6

\* Check entry.

+ Data missing from one replication.

++ Data missing from two replications.

Table 71. Stand (percent) evaluation of the 900-1000 maturity Inbred lines.

Entry	No.	AR	KY	MS	TN	TX	Mean
Cl66 *	1	101.1	98.5+	88.3	101.7	72.2	91.9
FR802W *	2	98.9	94.1+	70.0	91.7	58.3	81.8
FR805W *	3	96.7	100.0+	92.5	101.7	81.9	94.2
Ga209	4	95.6	100.0+	83.3	98.3	81.9	91.2
Mo17	5	93.3	100.0	87.5	100.0	68.1	89.8
T145	6	86.7	98.0	83.3	100.0	77.8	89.2
T147	7	95.6	78.4	89.2	103.3	72.2	87.7
T151	8	63.3	86.8+	64.2	91.7	80.6	76.6
T153	9	65.6	90.2	39.2	98.3	73.6	73.4
T155	10	95.6	97.1	85.8	100.0	75.0	90.7
T159	11	98.9	94.1	71.7	98.3	84.7	89.5
T250	12	100.0	100.0	91.7	100.0	88.9	96.1
T254	13	71.1	84.3	81.7	98.3	77.8	82.6
T256	14	87.8	99.0	66.7	100.0	80.6	86.8
T258	15	98.9	99.0	85.8	100.0	84.7	93.7
Ar258	16	102.2	76.5	81.7	93.3	65.3	83.8
Ar262	17	32.2	36.3	17.5	41.7	51.4	35.8
Ar266	18	68.9	95.1	88.3	98.3	70.8	84.3
Tx29A	19	98.9	71.6	92.5	96.7	70.8	86.1
Tx61M	20	90.0	94.1+	84.2	100.0	72.2	87.7
Tx403	21	48.9	61.8	42.5	83.3	69.4	61.2
Tx5855	22	17.8	30.4	18.8+	31.7	51.4	30.8
Tx6252	23	17.8	46.1	10.8	43.3	61.1	35.8
Mean		79.4	82.9	71.1	90.1	72.6	79.2
LSD 0.05		14.1	21.0	16.0	15.1	18.9	13.6
CV%		10.8	15.4	13.7	10.2	15.8	23.6

\* Check entry.

+ Data missing from one replication.

Table 72. Root lodging (percent) evaluation of the 900-1000 maturity Inbred lines.

Entry	No.	AR	KY	MS	TN	TX	Mean
CI66 *	1	0.0	0.0+	0.0	0.0	0.0	0.0
FR802W *	2	0.0	0.0+	0.0	0.0	0.0	0.0
FR805W *	3	0.0	0.0+	0.0	0.0	0.0	0.0
Ga209	4	0.0	0.0+	0.0	0.0	3.0	0.6
Mo17	5	2.4	0.0	0.0	0.0	1.8	0.8
T145	6	0.0	1.0	0.0	0.0	0.0	0.2
T147	7	0.0	0.0	0.0	1.5	16.9	3.7
T151	8	5.8	4.7+	0.0	3.7	22.5	7.5
T153	9	1.4	4.2	1.6	10.2	24.9	8.5
T155	10	0.0	1.0	0.0	0.0	2.9	0.8
T159	11	0.0	0.0	0.0	0.0	0.0	0.0
T250	12	0.0	0.0	0.0	0.0	0.0	0.0
T254	13	0.0	0.0	0.0	0.0	0.0	0.0
T256	14	0.0	0.0	0.0	0.0	0.0	0.0
T258	15	0.0	0.0	0.0	0.0	0.0	0.0
Ar258	16	2.1	0.0	0.0	0.0	4.0	1.2
Ar262	17	0.0	0.0	0.0	0.0	2.8	0.6
Ar266	18	1.7	0.0	0.0	0.0	0.0	0.3
Tx29A	19	0.0	14.3	0.0	0.0	12.0	5.3
Tx61M	20	2.4	0.0+	0.0	0.0	11.3	2.9
Tx403	21	1.7	2.4	0.0	0.0	6.1	2.0
Tx5855	22	0.0	0.0	0.0+	0.0	2.0	0.4
Tx6252	23	0.0	0.0	0.0	0.0	0.0	0.0
Mean		0.8	1.2	0.1	0.7	4.8	1.5
LSD 0.05		2.9	NS	NS	2.4	13.0	4.2
CV%		235.0			218.4	164.8	378.1

\* Check entry.

+ Data missing from one replication.

Table 73. Stalk lodging (percent) evaluation of the 900-1000 maturity inbred lines.

Entry	No.	AR	KY	MS	TN	TX	Mean
CI66 *	1	0.0	11.9+	4.7	1.7	0.0	3.1
FR802W *	2	0.0	28.1+	2.4	5.7	0.0	5.8
FR805W *	3	4.6	10.3+	1.0	1.7	0.0	3.0
Ga209	4	3.5	4.4+	1.0	0.0	0.0	1.6
Mo17	5	1.2	0.0	9.6	0.0	0.0	2.2
T145	6	1.4	7.0	2.0	8.3	0.0	3.7
T147	7	0.0	8.3	1.0	0.0	1.4	2.1
T151	8	7.1	5.0+	2.6	0.0	3.9	3.6
T153	9	0.0	8.0	5.4	0.0	0.0	2.7
T155	10	6.8	12.1	2.7	1.7	0.0	4.6
T159	11	1.1	0.0	2.8	1.8	0.0	1.1
T250	12	1.0	3.9	1.8	0.0	0.0	1.3
T254	13	0.0	3.8	4.1	0.0	0.0	1.6
T256	14	1.1	0.0	0.0	0.0	0.0	0.2
T258	15	0.0	1.0	1.0	0.0	1.6	0.7
Ar258	16	0.0	2.0	0.0	0.0	0.0	0.4
Ar262	17	0.0	2.6	0.0	0.0	2.8	1.1
Ar266	18	2.0	26.9	0.0	8.5	2.0	7.9
Tx29A	19	3.3	26.6	6.2	5.3	0.0	8.3
Tx61M	20	7.5	23.0+	6.0	5.0	0.0	7.3
Tx403	21	0.0	25.0	10.1	4.8	2.0	8.4
Tx5855	22	6.7	0.0	0.0+	6.7	2.0	3.3
Tx6252	23	0.0	7.0	0.0	0.0	3.9	2.2
Mean		2.1	9.0	2.8	2.2	0.8	3.3
LSD 0.05		NS	11.0	5.0	NS	NS	0.2
CV%			73.9	106.2			7.4

\* Check entry.

+ Data missing from one replication.

Table 74. Usable ears (per 100 plants) evaluation of the 900-1000 maturity inbred lines.

Entry	No.	KY	MS	TN	Mean
CI66 *	1	100.0+	91.7	86.7	91.9
FR802W *	2	95.0+	93.3	91.7	93.1
FR805W *	3	95.0+	111.7	120.0	110.6
Ga209	4	95.0+	101.7	160.0	121.9
Mo17	5	100.0	100.0	98.3	99.4
T145	6	95.0	101.7	78.3	91.7
T147	7	60.0	98.3	116.7	91.7
T151	8	87.5+	128.3	133.3	120.0
T153	9	93.3	66.7	96.7	85.6
T155	10	100.0+	103.3	125.0	110.6
T159	11	100.0	86.7	95.0	93.9
T250	12	93.3	113.3	106.7	104.4
T254	13	95.0	96.7	100.0	97.2
T256	14	100.0	100.0	96.7	98.9
T258	15	98.3	103.3	173.3	125.0
Ar258	16	55.0	95.0	58.3	69.4
Ar262	17	48.3	38.3	73.3	53.3
Ar266	18	100.0	96.7	100.0	98.9
Tx29A	19	68.3	123.3	95.0	95.6
Tx61M	20	100.0+	115.0	160.0	128.1
Tx403	21	80.0	80.0	103.3	87.8
Tx5855	22	33.3	70.0+	26.7	40.0
Tx6252	23	56.7	36.7	63.3	52.2
Mean		83.5	93.9	102.5	93.6
LSD 0.05		23.5	19.1	30.5	28.7
CV%		17.2	12.5	18.1	32.5

\* Check entry.

+ Data missing from one replication.

Table 75. Plant height (cm) evaluation of the 900-1000 maturity Inbred lines.

Entry	No.	AR	KY	MO	MS	TN	TX	Mean
CI66 *	1	127.0	132.5+	163.3	137.7	148.0	157.5	145.0
FR802W *	2	172.0	200.0+	191.7	205.0	194.0	176.1	189.2
FR805W *	3	138.0	170.0+	158.3	181.0	171.0	159.2	162.5
Ga209	4	164.3	190.0+	191.7	170.3	191.0	184.6	181.5
Mo17	5	145.7	190.0	180.0	174.3	162.0	176.1	171.4
T145	6	194.0	205.0	195.0	203.3	222.7	210.8	205.1
T147	7	179.3	186.7	191.7	183.7	213.0	191.3	190.9
T151	8	175.3	210.0+	191.7	205.7	189.7	184.6	191.8
T153	9	177.3	216.7	195.0	201.3	221.3	202.4	202.3
T155	10	160.7	185.0	176.7	159.7	186.0	186.3	175.7
T159	11	147.0	196.7	180.0	162.7	174.7	169.3	171.7
T250	12	147.3	196.7	196.7	186.0	190.0	182.9	183.3
T254	13	130.0	161.7	160.0	143.3	147.0	136.3	146.4
T256	14	131.0	165.0	151.7	153.3	167.3	164.3	155.4
T258	15	133.0	165.0	146.7	154.7	169.3	161.7	155.1
Ar258	16	116.7	168.3	136.7	140.7	148.0	150.7	143.5
Ar262	17	197.3	223.3	183.3	206.3	215.0	238.8	210.7
Ar266	18	98.3	145.0	123.3	113.3	101.7	132.1	119.0
Tx29A	19	201.3	233.3	183.3	201.0	225.3	210.8	209.2
Tx61M	20	170.0	190.0+	196.7	184.0	169.7	214.2	187.3
Tx403	21	160.0	168.3	171.7	160.7	180.0	152.4	165.5
Tx5855	22	171.0	211.7	165.0	176.0+	189.0	193.0	184.8
Tx6252	23	131.3	201.7	163.3	149.3	144.0	146.5	156.0
Mean		155.1	188.0	173.6	171.8	179.1	177.4	174.0
LSD 0.05		15.5	25.5	NS	24.4	20.1	25.8	13.0
CV%		6.1	8.2		8.6	6.8	8.8	11.3

\* Check entry.

+ Data missing from one replication.



Table 76. Ear height (cm) evaluation of the 900-1000 maturity inbred lines.

Entry	No.	AR	KY	MO	MS	TN	TX	Mean
CI66 *	1	61.7	57.5+	81.7	75.7	67.0	94.8	74.0
FR802W *	2	62.7	75.0+	88.3	79.3	82.0	86.4	79.2
FR805W *	3	67.0	75.0+	88.3	99.7	92.0	82.1	84.6
Ga209	4	77.0	82.5+	96.7	86.0	97.0	105.0	91.2
Mo17	5	59.3	56.7	91.7	69.3	73.0	81.3	71.9
T145	6	109.3	113.3	85.0	112.7	121.0	124.5	111.0
T147	7	90.7	93.3	91.7	105.0	114.0	98.2	98.8
T151	8	89.0	102.5+	91.7	110.3	97.7	103.3	98.9
T153	9	58.7	73.3	66.7	76.7	90.0	89.7	75.8
T155	10	69.7	78.3	76.7	71.3	76.0	87.2	76.5
T159	11	31.3	50.0	61.7	50.0	43.0	61.0	49.5
T250	12	58.3	61.7	101.7	78.7	77.0	77.9	75.9
T254	13	33.7	48.3	60.0	53.7	49.0	56.7	50.2
T256	14	26.0	41.7	46.7	54.0	55.0	66.0	48.2
T258	15	40.7	31.7	48.3	43.0	62.3	64.3	48.4
Ar258	16	58.3	73.3	70.0	73.7	63.0	88.1	71.1
Ar262	17	56.7	73.3	88.3	82.0	84.3	104.1	81.5
Ar266	18	44.7	50.0	58.3	59.0	50.3	65.2	54.6
Tx29A	19	85.3	108.3	101.7	112.0	110.7	127.8	107.6
Tx61M	20	117.7	120.0+	125.0	104.0	103.7	102.4	111.7
Tx403	21	65.0	68.3	76.7	75.7	87.0	83.8	76.1
Tx5855	22	81.0	95.0	121.7+	91.5+	96.3	101.6	98.2
Tx6252	23	65.0	80.0	88.3	73.7	80.0	77.0	77.3
Mean		65.6	73.3	82.9	79.7	81.4	88.2	78.6
LSD 0.05		21.2	13.5	39.1	9.0	26.7	21.4	9.8
CV%		19.6	11.1	28.7	6.9	19.9	14.7	18.9

\* Check entry.

+ Data missing from one replication.

Table 77. Moisture (percent) evaluation of the 900-1000 maturity inbred lines.

Entry	No.	AR	KY	TN	Mean
CI66 *	1	13.8	11.5+	24.6	17.3
FR802W *	2	13.2	9.4+	18.6	14.3
FR805W *	3	12.9	7.3+	17.7	13.3
Ga209	4	13.3	22.6+	25.4	20.1
Mo17	5	12.9	7.1	13.7	11.2
T145	6	12.9	10.1	19.6	14.2
T147	7	13.2	23.7	23.6	20.1
T151	8	12.4	10.6+	19.0	14.4
T153	9	12.6	12.6	26.8	17.3
T155	10	12.9	10.6	21.1	14.9
T159	11	12.9	27.9	31.7	24.1
T250	12	12.6	10.8	17.1	13.5
T254	13	12.8	12.4	23.1	16.1
T256	14	13.0	21.1	30.7	21.6
T258	15	13.4	12.9	16.2	14.2
Ar258	16	12.2	16.9	30.5	19.9
Ar262	17	13.0	11.8	23.1	16.0
Ar266	18	12.6	7.9	18.4	13.0
Tx29A	19	13.4	16.7	17.9	16.0
Tx61M	20	13.3	17.7+	21.0	17.3
Tx403	21	12.6	17.1	18.9	16.2
Tx5855	22	13.0	8.3	15.6	12.3
Tx6252	23	13.2	15.1	24.5	17.6
Mean		13.0	14.1	21.7	16.3
LSD 0.05		NS	6.3	2.8	5.7
CV%			27.0	7.8	36.6

\* Check entry.

+ Data missing from one replication.

Table 78. Days-to-tassel evaluation of the 900-1000 maturity inbred lines.

Entry	No.	KY	MO	TN	Mean
CI66 *	1	82.5+	92.5+	75.7	82.4
FR802W *	2	78.0+	83.3	67.7	76.1
FR805W *	3	77.0+	83.3	66.3	75.4
Ga209	4	83.5+	88.3	70.0	80.3
Mo17	5	71.7	81.0	63.7	72.1
T145	6	77.7	84.3	65.3	75.8
T147	7	85.7	87.0	68.0	80.2
T151	8	84.5+	92.0	70.7	82.1
T153	9	76.3	84.0	66.7	75.7
T155	10	78.0	82.3	63.7	74.7
T159	11	85.0	89.7	70.3	81.7
T250	12	75.0	82.3	64.7	74.0
T254	13	81.0	85.0	65.7	77.2
T256	14	82.3	87.3	70.3	80.0
T258	15	79.0	87.3	65.7	77.3
Ar258	16	88.0	95.0	73.7	85.6
Ar262	17	77.7	86.3	65.7	76.6
Ar266	18	78.3	87.0	67.3	77.6
Tx29A	19	80.7	87.3	68.7	78.9
Tx61M	20	81.0+	88.7	70.7	80.0
Tx403	21	78.0	86.0	67.3	77.1
Tx5855	22	83.0	90.3	69.7	81.0
Tx6252	23	80.3	88.0	67.7	78.7
Mean		80.1	86.8	68.0	78.2
LSD 0.05		1.9	3.0	1.7	2.3
CV%		1.4	2.1	1.5	3.1

\* Check entry.

+ Data missing from one replication.

Table 79. Days-to-silk evaluation of the 900-1000 maturity inbred lines.

Entry	No.	AR	KY	MS	TN	TX	Mean
CI66 *	1	97.0	86.0+	79.0	77.7	81.7	84.1
FR802W *	2	89.7	82.5+	75.0	70.0	80.0	79.2
FR805W *	3	85.7	79.0+	72.7	66.7	75.7	75.7
Ga209	4	94.7	87.0+	76.3	73.7	76.3	81.2
Mo17	5	85.7	73.7	71.7	65.3	76.0	74.5
T145	6	90.0	81.0	79.0	69.0	79.0	79.6
T147	7	92.3	88.3	77.0	71.3	81.0	82.0
T151	8	93.3	86.5+	76.7	72.7	76.3	80.7
T153	9	91.0	79.3	76.0	68.7	81.7	79.3
T155	10	90.7	81.3	73.0	67.0	78.0	78.0
T159	11	94.3	87.7	80.7	74.0	76.3	82.6
T250	12	86.3	76.7	75.3	66.7	70.7	75.1
T254	13	91.3	82.7	74.3	68.7	74.3	78.3
T256	14	95.0	85.0	80.7	73.7	74.3	81.7
T258	15	87.0	81.3	75.3	67.7	73.3	76.9
Ar258	16	95.7	90.3	81.0	76.7	83.0	85.3
Ar262	17	89.3	78.3	74.0	67.3	78.7	77.5
Ar266	18	92.3	83.0	77.0	71.3	79.3	80.6
Tx29A	19	91.3	84.3	73.0	70.7	74.0	78.7
Tx61M	20	91.7	82.5+	74.7	72.7	73.7	78.8
Tx403	21	89.3	82.0	75.7	69.7	79.7	79.3
Tx5855	22	89.7	83.7	75.0+	71.0	79.7	80.1
Tx6252	23	90.0	82.7	75.3	69.3	78.7	79.2
Mean		91.0	82.7	76.0	70.5	77.4	79.5
LSD 0.05		2.6	2.7	3.2	1.8	2.2	2.5
CV%		1.8	2.0	2.5	1.5	1.7	4.4

\* Check entry.

+ Data missing from one replication.

Table 80. Ear row number evaluation of the 900-1000 maturity inbred lines.

Entry	No.	AR	KY	MS	TN	Mean
Cl66 *	1	16.0	15.5+	14.7	16.7	15.7
FR802W *	2	9.3	9.5+	10.1	10.0	9.7
FR805W *	3	14.7	14.0+	14.7	16.0	14.9
Ga209	4	13.5	12.5+	13.5	13.3	13.3
Mo17	5	10.9	10.7	10.9	11.3	11.0
T145	6	11.1	10.3	10.4	12.0	11.0
T147	7	12.9	13.0	12.5	13.3	12.9
T151	8	12.5	11.0+	11.8	12.0	11.9
T153	9	10.4	10.7	10.6	12.0	10.9
T155	10	13.5	13.0	14.0	15.3	14.0
T159	11	11.6	11.7	12.0	12.7	12.0
T250	12	10.1	10.7	10.9	10.7	10.6
T254	13	12.5	12.0	12.8	13.3	12.7
T256	14	12.7	11.7	12.2	14.0	12.6
T258	15	12.4	12.0	11.6	12.0	12.0
Ar258	16	11.6	14.3	14.4	16.0	14.1
Ar262	17	15.2	15.3	14.3	16.7	15.4
Ar266	18	14.1	14.0	13.6	14.0	13.9
Tx29A	19	13.2	14.0	13.5	14.7	13.8
Tx61M	20	12.9	13.5+	12.7	12.7	12.9
Tx403	21	15.3	15.0	14.6	16.7	15.4
Tx5855	22	13.9	13.7	13.7+	14.0	13.8
Tx6252	23	15.2	16.0	16.0	16.0	15.8
Mean		12.9	12.8	12.8	13.7	13.1
LSD 0.05		0.9	1.3	0.9	1.7	0.8
CV%		4.5	6.3	4.1	7.6	7.8

\* Check entry.

+ Data missing from one replication.

Table 81. Ear length (cm) evaluation of the 900-1000 maturity inbred lines.

Entry	No.	AR	KY	MS	TN	Mean
Cl66 *	1	15.2	12.7+	11.9	15.1	13.8
FR802W *	2	19.8	19.2+	14.7	19.5	18.2
FR805W *	3	14.5	14.6+	10.7	14.7	13.6
Ga209	4	15.3	13.1+	13.1	17.3	14.8
Mo17	5	18.2	17.3	15.6	18.8	17.4
T145	6	14.0	13.3	11.1	13.8	13.0
T147	7	15.9	12.7	11.8	14.7	13.7
T151	8	16.4	15.9+	13.5	14.8	15.1
T153	9	14.1	12.4	11.3	16.9	13.7
T155	10	14.9	14.2	11.3	14.8	13.8
T159	11	17.0	15.5	14.5	16.6	15.9
T250	12	19.9	17.2	15.7	22.0	18.7
T254	13	18.6	16.7	14.6	16.5	16.6
T256	14	17.4	16.9	14.8	19.7	17.2
T258	15	15.4	14.8	14.7	16.8	15.4
Ar258	16	12.9	13.6	13.0	14.4	13.5
Ar262	17	16.4	16.5	14.9	17.5	16.3
Ar266	18	15.0	12.8	11.8	15.6	13.8
Tx29A	19	18.3	15.6	14.4	17.3	16.4
Tx61M	20	17.0	15.2+	12.6	15.6	15.1
Tx403	21	17.5	15.0	13.8	16.6	15.7
Tx5855	22	15.5	13.7	11.2+	14.6	14.0
Tx6252	23	17.2	14.9	14.0	17.6	15.9
Mean		16.4	14.9	13.3	16.6	15.3
LSD 0.05		1.5	1.3	1.4	1.7	1.2
CV%		5.5	5.4	6.4	6.4	9.9

\* Check entry.

+ Data missing from one replication.

Table 82. Ear diameter (cm) evaluation of the 900-1000 maturity inbred lines.

Entry	No.	AR	KY	MS	TN	Mean
C166 *	1	4.3	3.8+	3.8	4.5	4.1
FR802W *	2	3.8	3.9+	3.6	4.1	3.9
FR805W *	3	4.2	4.2+	4.2	4.7	4.3
Ga209	4	3.9	3.7+	3.7	4.2	3.9
Mo17	5	3.7	3.8	3.5	4.0	3.7
T145	6	3.6	3.4	3.0	3.7	3.4
T147	7	4.0	3.7	3.6	4.1	3.9
T151	8	4.0	3.4+	3.7	4.1	3.8
T153	9	3.9	3.7	3.7	4.3	3.9
T155	10	3.9	4.0	3.9	4.3	4.0
T159	11	3.4	3.6	3.4	4.2	3.6
T250	12	3.5	3.7	3.6	3.8	3.6
T254	13	3.7	4.0	3.8	4.2	3.9
T256	14	3.6	3.5	3.4	4.1	3.6
T258	15	3.7	3.6	3.7	4.1	3.8
Ar258	16	3.6	4.1	3.9	4.5	4.0
Ar262	17	4.0	4.2	3.8	4.2	4.0
Ar266	18	3.8	3.7	3.5	3.8	3.7
Tx29A	19	4.3	4.1	4.0	4.4	4.2
Tx61M	20	4.0	4.0+	3.8	4.3	4.0
Tx403	21	4.3	4.2	3.9	4.6	4.3
Tx5855	22	4.0	3.7	3.8+	4.2	3.9
Tx6252	23	4.1	3.9	4.1	4.7	4.2
Mean		3.9	3.8	3.7	4.2	3.9
LSD 0.05		0.2	0.4	0.3	0.3	0.2
CV%		2.7	6.5	5.5	4.0	6.1

\* Check entry.

+ Data missing from one replication.

Table 83. Three-hundred kernel weight (g) evaluation of the 900-1000 maturity inbred lines.

Entry	No.	AR#	KY	MS	TN	Mean
CI66 *	1	70.0	67.0+	74.9	65.3	69.4
FR802W *	2	88.0	93.0+	75.5	74.0	80.3
FR805W *	3	71.0	76.5+	70.5	60.3	68.5
Ga209	4	82.0	86.5+	78.6	85.3	83.0
Mo17	5	83.0	101.0	70.6	87.3	86.0
T145	6	90.0	88.3	75.2	73.3	80.0
T147	7	61.0	84.0	62.7	68.3	70.6
T151	8	85.0	78.0+	75.9	73.3	76.5
T153	9	120.0	127.0	115.6	106.7	116.8
T155	10	69.0	70.7	62.3	59.3	64.6
T159	11	68.0	84.0	72.8	77.7	77.1
T250	12	100.0	114.3	86.2	92.3	97.9
T254	13	67.0	73.7	62.5	62.7	66.3
T256	14	68.0	80.7	74.9	77.7	76.8
T258	15	63.0	69.0	64.4	58.3	63.8
Ar258	16	111.0	73.7	67.3	58.7	71.0
Ar262	17	71.0	76.0	65.5	68.7	70.1
Ar266	18	66.0	54.0	70.8	59.7	61.9
Tx29A	19	93.0	76.3	72.5	68.3	74.5
Tx61M	20	88.0	86.0+	74.5	73.3	78.2
Tx403	21	94.0	88.3	72.8	65.7	77.4
Tx5855	22	65.0	63.3	68.1+	54.7	61.7
Tx6252	23	55.0	60.7	62.2	65.3	61.9
Mean		79.5	81.4	72.9	71.1	75.5
LSD 0.05			12.7	13.1	7.1	9.6
CV%			9.5	10.9	6.0	14.2

\* Check entry.

+ Data missing from one replication.

# Data from one replication.



Table 84. Stalk crushing strength (load-kg) evaluation of the 900-1000 maturity inbred lines.

Entry	No.	M0
CI66 *	1	385.6
FR802W *	2	378.0
FR805W *	3	210.2
Ga209	4	343.5
Mo17	5	288.8
T145	6	627.5
T147	7	530.7
T151	8	520.1
T153	9	427.9
T155	10	352.3
T159	11	554.9
T250	12	323.6
T254	13	305.4
T256	14	474.8
T258	15	352.3
Ar258	16	433.3
Ar262	17	331.1
Ar266	18	194.3
Tx29A	19	461.2
Tx61M	20	450.0
Tx403	21	414.3
Tx5855	22	291.0+
Tx6252	23	422.3
Mean		396.0
LSD 0.05		126.7
CV%		19.4

\* Check entry.

+ Data missing from one replication.

Table 85. Bacterial wilt susceptibility evaluation of the 900-1000 maturity inbred lines.

Entry	No.	Stewart's	Goss'
		wilt MO	wilt NE
		(1-5)	(1-9)
CI 66 *	1	1.3	1.0
FR802W *	2	1.7	1.3
FR805W *	3	1.3	1.0
Ga209	4	2.0++	1.3
Mo17	5	2.3	1.3
T145	6	2.0++	1.0
T147	7	2.0++	1.0
T151	8	.	2.0
T153	9	3.5+	1.0
T155	10	3.3	1.0
T159	11	.	1.0
T250	12	1.0	1.7
T254	13	3.0++	1.0
T256	14	.	1.0
T258	15	.	2.0
Ar258	16	1.3	1.3
Ar262	17	.	1.3
Ar266	18	3.7	1.3
Tx29A	19	2.0	1.0
Tx61M	20	2.0	1.0
Tx403	21	2.0	1.7
Tx5855	22	.	1.0
Tx6252	23	3.0++	1.3
Mean		2.1	1.2
LSD 0.05		1.0	NS
CV%		27.2	

\* Check entry.

+ Data missing from one replication.

++ Data missing from two replications.

Table 86. Fungal leaf disease and rust susceptibility evaluation of the 900-1000 maturity inbred lines.

Entry	No.	Downy	Southern		Northern		South.
		mildew	leaf	blight	leaf	blight	leaf
		infct.	Date 1	Date 2	Race 1	Race 2	rust
		MS	IL	IL	IL	IL	MS
		(%)	(%LA) <sup>#</sup>	(%LA)	(%LA)	(%LA)	(0-9)
CI66 *	1	4.3	6.7	26.7	1.0	1.3	6.7
FR802W *	2	0.0	16.7	33.3	2.3	4.5+	5.7
FR805W *	3	2.0	6.7	23.3	6.2	4.0	6.3
Ga209	4	0.0	20.0	36.7	2.0	2.0	7.7
Mo17	5	0.0	6.7	20.0	1.7	2.3	6.3
T145	6	6.7	8.3	16.7	5.0+	5.0+	7.7
T147	7	18.7	8.3	20.0	3.5	6.2	7.7
T151	8	4.0	23.3	40.0	4.2	3.5+	6.7
T153	9	2.0	12.5+	20.0+	5.0++		6.7
T155	10	4.0	6.7	23.3	2.7	5.3+	7.0
T159	11	49.0	6.7	10.0	2.0+	3.5+	6.7
T250	12	0.0	6.7	23.3	3.0	3.0+	6.7
T254	13	0.0	10.0++	20.0++	4.0+	6.3+	6.0
T256	14	42.7	7.5+	15.0+	1.5+	5.3+	7.7
T258	15	66.0	10.0	30.0	3.3	4.0+	8.0
Ar258	16	8.0	10.0++	20.0++	1.0++	2.7	5.3
Ar262	17	32.7	10.0++	50.0++	13.5++	5.2	8.0
Ar266	18	6.0	10.0	33.3	10.0++	7.0	8.7
Tx29A	19	11.3	11.7	40.0	4.8	3.0	8.7
Tx61M	20	0.0	8.3	46.7	2.0++	2.3	8.7
Tx403	21	0.0	10.0++	30.0++	4.0++	.	7.7
Tx5855	22	0.0	.	.	.	.	8.0
Tx6252	23	0.0	10.0++	30.0++	3.8+	.	8.3
Mean		11.2	10.4	27.6	3.5	4.1	7.2
LSD 0.05		17.9	6.9	10.4	2.4	NS	1.3
CV%		97.9	39.7	22.7	40.0		10.8

\* Check entry.

+ Data missing from one replication.

++ Data missing from two replications.

# Represents percent of leaf area infected.

Table 87. Smut susceptibility evaluation of the 900-1000 maturity inbred lines.

Entry	No.	Head Infct. TX
		(%)
Cl66 *	1	0.0
FR802W *	2	1.7
FR805W *	3	5.0
Ga209	4	6.1
Mo17	5	0.0
T145	6	3.3
T147	7	11.7
T151	8	7.8
T153	9	2.8
T155	10	6.3
T159	11	3.0
T250	12	0.0
T254	13	18.9
T256	14	1.3
T258	15	5.6
Ar258	16	0.0
Ar262	17	5.0
Ar266	18	16.7
Tx29A	19	13.2
Tx61M	20	1.3
Tx403	21	23.3
Tx5855	22	6.7
Tx6252	23	6.7
Mean		6.6
LSD 0.05		NS

\* Check entry.

Table 88. Virus susceptibility evaluation of the 900-1000 maturity inbred lines.

Entry	No.	MCDV OH	MDMV			MDMV rating MS	CLN rating KS	Virus rating OH
			MS	OH	Mean			
		(%)	(%)	(%)	(%)	(1-5)	(1-9)	(1-5)
Cl66 *	1	61.9	79.4	8.2	43.8	2.6	7.3	3.0
FR802W *	2	0.0	34.0	0.0	17.0	1.5	7.0	1.0
FR805W *	3	60.6	22.3	44.4	33.4	1.4	7.0	3.0
Ga209	4	47.3	34.0	10.1	22.0	1.6	7.3	2.7
Mo17	5	45.7	91.7	54.3	73.0	3.7	7.3	3.0
T145	6	13.4	74.2	0.0	37.1	2.4	8.0	2.0
T147	7	58.7	34.0	41.3	37.6	1.7	6.3	3.0
T151	8	9.2	40.7	9.2	25.0	1.7	6.7	2.0
T153	9	87.5	62.3	93.8	78.0	2.4	7.7	3.0
T155	10	47.8	58.1	21.1	39.6	2.1	8.0	3.0
T159	11	27.9	88.6	16.5	52.6	2.9	7.0	3.0
T250	12	30.2	6.6	3.8	5.2	1.1	8.0	3.0
T254	13	56.2	81.5	43.3	62.4	2.8	7.3	3.3
T256	14	33.9	97.1	29.2	63.1	3.0	7.0	3.0
T258	15	67.2	35.9	14.4	25.1	1.5	7.3	3.0
Ar258	16	25.0	32.8	9.7	21.2	1.7	7.7	3.0
Ar262	17	.	9.3	.	9.3	1.1	8.0	.
Ar266	18	33.3	36.0	3.6	19.8	1.7	7.3	3.0
Tx29A	19	47.7	51.3	61.4	56.3	2.0	7.0	3.0
Tx61M	20	85.0	24.5	15.0	19.7	1.4	7.0	3.0
Tx403	21	96.4	92.3	100.0	96.2	2.9	7.7	3.7
Tx5855	22	46.4	71.7	34.3	53.0	2.4	8.0	3.0
Tx6252	23	75.0	86.9	88.3	87.6	2.8	7.3	3.7
Mean		48.0	54.1	31.9	43.3	2.1	7.4	2.9
LSD 0.05		21.5	32.5	12.7	45.4	0.7	NS	0.4
CV%		26.7	36.8	23.8	86.5	19.8		8.6

\* Check entry.

Table 89. Insect susceptibility evaluation of the 900-1000 maturity inbred lines.

Entry	No.	ECB		CEW	FAW# GA	SWCB MS
		First IA	Second IA	tunl. GA		
		(1-9)	(1-9)	(cm)	(0-9)	(1-9)
CI66 *	1	2.3	6.0	7.6	4.7	8.7
FR802W *	2	6.7	9.0	11.7	5.6	8.5
FR805W *	3	6.3	6.3	7.6	5.2	9.0
Ga209	4	7.7	6.3	7.6	4.8	8.9
Mo17	5	6.7	7.3	12.2	5.9	8.9
T145	6	5.3	7.3	8.0	6.1	8.9
T147	7	4.7	5.3	9.5	4.8	8.8
T151	8	9.0	7.0	7.7	4.5	8.9
T153	9	8.3	7.0	10.7	6.2	9.0
T155	10	5.3	7.0	8.3	5.2	8.7
T159	11	7.3	7.0	8.5	5.8	8.8
T250	12	4.3	6.7	13.8	5.2	8.9
T254	13	9.0	7.0	8.6	5.6	8.9
T256	14	3.3	7.3	9.9	6.2	8.8
T258	15	3.3	6.0	6.6	4.8	8.4
Ar258	16	9.0	8.0	10.4	5.7	8.9
Ar262	17	4.5+	7.3	10.3	5.5	8.9
Ar266	18	5.7	7.3	10.7	5.6	8.7
Tx29A	19	6.7	6.3	9.3	4.8	8.6
Tx61M	20	5.7	5.7	9.5	4.5	8.5
Tx403	21	7.0	7.7	11.4	.	8.9
Tx5855	22	5.0++	7.0+	8.4	.	9.0
Tx6252	23	5.0	.	10.3	.	9.0
Mean		6.1	6.9	9.5	5.3	8.8
LSD 0.05		2.5	1.4	NS	1.0	NS
CV%		25.0	12.4		13.3	

\* Check entry.

+ Data missing from one replication.

++ Data missing from two replications.

# Data from four replications.

**COOPERATORS CONTRIBUTING TO THE 1100-1200 MATURITY EVALUATION:**  
(In order of character presentation in the tables)

Cooperator	Site code	Organization and location	Characters
Gudauskas	AL	Auburn Univ., Auburn	Agronomic
Widstrom	GA	USDA	Agronomic
Darrah	MO	USDA/Univ. of Missouri, Columbia	Agronomic
Scott	MS	USDA/Mississippi State Univ., Mississippi State	Agronomic
West	TN	Univ. of Tennessee, Knoxville	Agronomic
Bockholt	TX	Texas A&M Univ., College Station	Agronomic
Politowski	MO	Pfizer Genetics, St. Louis	Stewart's wilt
Turner	NE	Funk Seeds International, Clearwater	Goss' wilt
Scott	MS	USDA/Mississippi State Univ., Mississippi State	Downy mildew
Gudauskas	AL	Auburn Univ., Auburn	North. leaf spot South. leaf blight
White	IL	Univ. of Illinois, Urbana	North. leaf blight South. leaf blight
Scott	MS	USDA/Mississippi State Univ., Mississippi State	North. leaf blight South. leaf rust
Gudauskas	AL	Auburn Univ., Auburn	Common smut
Bockholt and Frederiksen	TX	Texas A&M Univ., Halfway	Head smut
Findley and Louie	OH	USDA/OARDC, Wooster	MCDV
Scott	MS	USDA/Mississippi State Univ., Mississippi State	MDMV
Turner	KS	Funk Seeds International, Norton	CLN
Findley and Louie	OH	USDA/OARDC, Wooster	Virus rating
Guthrie	IA	USDA	European corn borer
Widstrom	GA	USDA	Corn ear worm Fall army worm
Scott	MS	USDA/Mississippi State Univ., Mississippi State	Southwestern corn borer

Table 90. Yield (q/ha) evaluation of the 1100-1200 maturity inbred lines.

Entry	No.	GA	MS	TN	TX	Mean
SC76 *	1	15.3	16.9	18.7	7.5	14.6
SC213 *	2	15.3	15.1	25.0	11.2	16.7
T232 *	3	27.3	18.9	12.5	13.8	18.1
GT112RF	4	13.7	11.5	14.6	12.7	13.1
NC246	5	25.4	33.8	46.3	18.7	31.0
NC248	6	23.7	11.2	23.8	12.3	17.7
SC12	7	20.7	13.9	32.4	11.2	19.6
SC43	8	44.2	30.4	47.2	25.8	36.9
SC55	9	13.0	15.1	27.3	17.6	18.2
Mp496	10	6.3	13.9	11.2	16.4	12.0
Tx601	11	14.4	9.7	7.7	8.2	10.0
Mean		20.0	17.3	24.2	14.1	18.9
LSD 0.05		19.2	7.5	6.0	8.0	8.7
CV%		56.6	25.3	14.5	33.3	54.9

\* Check entry.



Table 91. Stand (percent) evaluation of the 1100-1200 maturity inbred lines.

Entry	No.	AL	GA	MS	TN	TX	Mean
SC76 *	1	88.9	93.9	75.8	100.0	69.4	85.6
SC213 *	2	89.6	86.4	75.0	100.0	63.9	83.0
T232 *	3	94.8	103.0	83.3	100.0	73.6	91.0
GT112RF	4	94.1	100.0	70.0	96.7	76.4	87.4
NC246	5	89.6	93.9	69.2	98.3	61.1	82.4
NC248	6	89.6	87.9	70.0	90.0	63.9	80.3
SC12	7	94.1	90.9	74.2	96.7	72.2	85.6
SC43	8	91.9	86.4	65.8	100.0	63.9	81.6
SC55	9	90.4	84.8	81.7	98.3	79.2	86.9
Mp496	10	91.1	47.0	71.7	83.3	65.3	71.7
Tx601	11	73.3	34.8	35.0	75.0	72.2	58.1
Mean		89.8	82.6	70.2	94.4	69.2	81.2
LSD 0.05		10.9	25.4	22.7	12.4	NS	11.9
CV%		7.1	18.0	19.0	7.7		19.9

\* Check entry.

Table 92. Root lodging (percent) evaluation of the 1100-1200 maturity inbred lines.

Entry	No.	AL	GA	MS	TN	TX	Mean
SC76 *	1	1.6	1.9	0.0	0.0	2.6	1.2
SC213 *	2	0.9	1.8	0.0	0.0	0.0	0.5
T232 *	3	1.5	1.4	0.0	0.0	3.3	1.2
GT112RF	4	5.4	0.0	0.0	0.0	2.0	1.5
NC246	5	12.3	0.0	0.0	0.0	0.0	2.5
NC248	6	1.7	7.0	0.0	0.0	0.0	1.7
SC12	7	2.3	1.4	0.0	0.0	0.0	0.7
SC43	8	2.8	0.0	0.0	0.0	2.0	0.9
SC55	9	0.0	2.0	0.0	0.0	1.8	0.7
Mp496	10	5.6	20.0	0.0	5.9	0.0	6.3
Tx601	11	0.0	5.6	0.0	2.2	3.7	2.3
Mean		3.1	3.7	0.0	0.7	1.4	1.8
LSD 0.05		6.4	NS	NS	NS	NS	NS
CV%		122.1					

\* Check entry.

Table 93. Stalk lodging (percent) evaluation of the 1100-1200 maturity inbred lines.

Entry	No.	AL	GA	MS	TN	TX	Mean
SC76 *	1	0.0	0.0	6.4	0.0	0.0	1.3
SC213 *	2	1.5	1.8	3.5	0.0	0.0	1.4
T232 *	3	11.0	0.0	5.0	6.7	0.0	4.5
GT112RF	4	13.5	5.0	5.6	10.0	0.0	6.8
NC246	5	5.0	0.0	3.9	3.5	2.2	2.9
NC248	6	1.7	0.0	6.1	5.3	2.8	3.2
SC12	7	2.4	0.0	2.0	0.0	0.0	0.9
SC43	8	4.1	6.5	0.0	0.0	0.0	2.1
SC55	9	1.6	5.4	2.0	0.0	0.0	1.8
Mp496	10	4.9	0.0	2.4	0.0	0.0	1.5
Tx601	11	2.0	11.1	9.5	0.0	0.0	4.5
Mean		4.3	2.7	4.2	2.3	0.5	2.8
LSD 0.05		NS	NS	NS	NS	NS	NS
CV%							

\* Check entry.

Table 94. Usable ears (per 100 plants) evaluation of the 1100-1200 maturity inbred lines.

Entry	No.	GA	MS	TN	Mean
SC76 *	1	130.0	131.7	111.7	124.4
SC213 *	2	95.0	115.0	138.3	116.1
T232 *	3	80.0	111.7	78.3	90.0
GT112RF	4	80.0	116.7	116.7	104.4
NC246	5	103.3	146.7	148.3	132.8
NC248	6	118.3	116.7	106.7	113.9
SC12	7	96.7	125.0	151.7	124.4
SC43	8	121.7	140.0	180.0	147.2
SC55	9	66.7	98.3	120.0	95.0
Mp496	10	36.7	100.0	76.7	71.1
Tx601	11	40.0	91.7	73.3	68.3
Mean		88.0	117.6	118.3	108.0
LSD 0.05		36.7	30.0	28.4	28.8
CV%		24.5	15.0	14.1	27.2

\* Check entry.

Table 95. Plant height (cm) evaluation of the 1100-1200 maturity Inbred lines.

Entry	No.	GA	MO	MS	TN	TX	Mean
SC76 *	1	126.3	180.0	170.0	182.0	171.0	165.9
SC213 *	2	133.7	216.7	172.3	200.0	176.1	179.8
T232 *	3	128.0	223.3	207.0	210.0	175.3	188.7
GT112RF	4	163.0	231.7	178.3	240.0	217.6	206.1
NC246	5	144.3	226.7	173.3	208.0	177.0	185.9
NC248	6	142.3	226.7	171.7	221.7	188.0	190.1
SC12	7	139.3	231.7	206.3	232.0	169.3	195.7
SC43	8	140.3	190.0	170.3	181.0	172.7	170.9
SC55	9	133.0	171.7	165.7	220.0	158.3	169.7
Mp496	10	120.3	178.3	149.3	181.0	147.3	155.3
Tx601	11	152.7	200.0	187.7	213.0	194.7	188.0
Mean		138.5	207.4	177.5	208.1	177.0	181.4
LSD 0.05		13.6	18.3	26.0	11.3	24.3	16.0
CV%		5.8	5.2	8.6	3.1	8.1	12.0

\* Check entry.

++ Data missing from two replications.

Table 96. Ear height (cm) evaluation of the 1100-1200 maturity Inbred lines.

Entry	No.	GA	MO	MS	TN	TX	Mean
SC76 *	1	66.7	108.3	107.3	101.7	116.8	100.2
SC213 *	2	43.7	91.7	74.0	76.0	89.7	75.0
T232 *	3	58.3	118.3	96.3	94.0	97.4	92.9
GT112RF	4	60.3	118.3	89.7	113.0	107.5	97.8
NC246	5	60.0	100.0	82.3	84.0	88.1	82.9
NC248	6	63.7	118.3	88.7	106.0	94.0	94.1
SC12	7	40.7	113.3	85.3	107.0	82.1	85.7
SC43	8	69.7	100.0	88.7	101.3	85.5	89.0
SC55	9	64.7	105.0	93.7	110.0	96.5	94.0
Mp496	10	55.7	88.3	83.0	89.0	73.7	77.9
Tx601	11	76.7	120.0++	113.3	121.0	124.5	109.7
Mean		60.0	106.6	91.1	100.3	96.0	90.6
LSD 0.05		14.5	NS	10.8	13.2	16.4	9.6
CV%		14.2		7.0	7.7	10.0	14.4

\* Check entry.

++ Data missing from two replications.

Table 97. Moisture (percent) evaluation of the 1100-1200 maturity inbred lines.

Entry	No.	GA	TN	Mean
SC76 *	1	12.8	29.9	21.3
SC213 *	2	18.8	30.2	24.5
T232 *	3	7.1	24.7	15.9
GT112RF	4	17.3	31.4	24.3
NC246	5	22.0	24.0	23.0
NC248	6	17.4	28.3	22.9
SC12	7	24.7	31.7	28.2
SC43	8	8.6	20.3	14.4
SC55	9	4.9	22.9	13.9
Mp496	10	7.1	29.9	18.5
Tx601	11	19.6	47.6	33.6
Mean		14.6	29.2	21.9
LSD 0.05		10.7	6.0	NS
CV%		43.1	12.0	

\* Check entry.

Table 98. Days-to-tassel evaluation of the 1100-1200 maturity inbred lines.

Entry	No.	GA	MO	TN	Mean
SC76 *	1	85.0	100.0	81.7	88.9
SC213 *	2	77.0	91.0	76.3	81.4
T232 *	3	74.3	88.0	67.3	76.6
GT112RF	4	84.0	98.7	78.3	87.0
NC246	5	77.0	88.0	71.7	78.9
NC248	6	80.0	92.7	75.0	82.6
SC12	7	75.3	86.7	67.7	76.6
SC43	8	71.3	87.0	67.3	75.2
SC55	9	81.3	98.7	75.7	85.2
Mp496	10	78.3	95.0	74.7	82.7
Tx601	11	.	103.0++	.	103.0
Mean		78.4	92.9	73.6	81.7
LSD 0.05		2.1	2.0	3.3	2.6
CV%		1.6	1.3	2.7	3.2

\* Check entry.

++ Data missing from two replications.



Table 99. Days-to-silk evaluation of the 1100-1200 maturity inbred lines.

Entry	No.	AL#	GA	MS	TN	TX	Mean
SC76 *	1	87.0	86.7	83.0	83.7	81.7	84.4
SC213 *	2	77.0	79.0	78.7	78.3	76.3	77.9
T232 *	3	78.0	76.7	76.0	69.3	79.3	75.9
GT112RF	4	87.0	85.3	81.7	80.3	79.7	82.8
NC246	5	77.0	74.0	74.3	73.3	74.7	74.7
NC248	6	79.0	81.3	77.7	77.0	79.7	78.9
SC12	7	78.0	79.7	81.7	71.3	78.7	77.9
SC43	8	74.0	72.3	73.3	68.7	73.7	72.4
SC55	9	87.0	83.3	82.0	77.3	78.3	81.6
Mp496	10	77.0	80.3	76.7	77.0	75.0	77.2
Tx601	11	87.0	84.7	80.7	81.7	86.0	84.0
Mean		80.7	80.3	78.7	76.2	78.5	78.9
LSD 0.05			3.7	2.8	3.3	4.3	1.4
CV%			2.7	2.1	2.5	3.2	4.8

\* Check entry.

# Data from one replication.

Table 100. Ear row number evaluation of the 1100-1200 maturity inbred lines.

Entry	No.	GA	MS	TN	Mean
SC76 *	1	12.1	12.3	13.3	12.6
SC213 *	2	10.7	9.9	10.0	10.2
T232 *	3	12.5	11.7	12.0	12.1
GT112RF	4	13.7	12.1	12.0	12.6
NC246	5	14.3	11.5	11.3	12.4
NC248	6	12.4	10.5	10.7	11.2
SC12	7	13.6	11.1	12.7	12.5
SC43	8	14.9	13.7	16.0	14.9
SC55	9	16.1	14.7	14.0	14.9
Mp496	10	17.3	14.1	15.3	15.6
Tx601	11	16.4	13.4	14.0	14.6
Mean		14.0	12.3	12.8	13.0
LSD 0.05		2.0	1.1	1.7	1.4
CV%		8.3	5.3	7.7	10.5

\* Check entry.

Table 101. Ear length (cm) evaluation of the 1100-1200 maturity  
inbred lines.

Entry	No.	GA	MS	TN	Mean
SC76 *	1	9.9	9.7	12.5	10.7
SC213 *	2	14.3	13.0	18.6	15.3
T232 *	3	11.9	12.1	15.2	13.1
GT112RF	4	11.7	10.5	16.1	12.8
NC246	5	13.2	11.1	16.7	13.7
NC248	6	12.4	11.1	14.2	12.5
SC12	7	13.7	13.7	16.3	14.6
SC43	8	15.5	12.1	14.4	14.0
SC55	9	10.8	7.8	13.0	10.5
Mp496	10	11.0	9.4	13.9	11.4
Tx601	11	15.2	12.9	14.9	14.3
Mean		12.7	11.2	15.1	13.0
LSD 0.05		1.8	1.5	1.6	1.8
CV%		8.2	7.6	6.3	13.7

\* Check entry.

Table 102. Ear diameter (cm) evaluation of the 1100-1200 maturity  
Inbred lines.

Entry	No.	GA	MS	TN	Mean
SC76 *	1	3.5	3.2	3.8	3.5
SC213 *	2	3.5	2.9	3.6	3.3
T232 *	3	3.7	3.5	3.9	3.7
GT112RF	4	4.1	3.3	4.2	3.9
NC246	5	4.0	3.5	4.3	4.0
NC248	6	4.1	3.1	3.7	3.6
SC12	7	3.7	3.0	4.2	3.6
SC43	8	4.6	3.5	4.0	4.0
SC55	9	4.2	3.7	4.5	4.1
Mp496	10	4.2	3.4	4.2	3.9
Tx601	11	4.6	3.4	4.2	4.0
Mean		4.0	3.3	4.0	3.8
LSD 0.05		0.6	NS	0.3	0.4
CV%		8.8		4.5	9.7

\* Check entry.

Table 103. Three-hundred kernel weight (g) evaluation of the 1100-1200 maturity inbred lines.

Entry	No.	GA	MS	TN	Mean
SC76 *	1	60.0	55.4	59.7	58.3
SC213 *	2	79.7	78.0	87.3	81.7
T232 *	3	100.3	108.1	113.0	107.1
GT112RF	4	65.3	62.7	81.3	69.8
NC246	5	87.7	77.4	88.7	84.6
NC248	6	72.7	66.5	85.7	74.9
SC12	7	53.7	73.3	79.7	68.9
SC43	8	67.3	53.8	53.7	58.3
SC55	9	53.3	67.5	70.7	63.8
Mp496	10	57.0	58.2	66.7	60.6
Tx601	11	62.3	94.8	95.0	84.1
Mean		69.0	72.3	80.1	73.8
LSD 0.05		10.5	8.4	9.8	13.9
CV%		8.9	6.8	7.2	19.1

\* Check entry.

Table 104. Stalk crushing strength (load-kg) evaluation of the 1100-1200 maturity inbred lines.

Entry	No.	M0
SC76 *	1	325.2
SC213 *	2	382.5
T232 *	3	425.0
GT112RF	4	379.5
NC246	5	405.2
NC248	6	531.9
SC12	7	423.4
SC43	8	424.1
SC55	9	376.8
Mp496	10	449.1
Tx601	11	279.9
Mean		408.0
LSD 0.05		115.3
CV%		16.6

\* Check entry.

Table 105. Bacterial wilt susceptibility evaluation of the 1100-1200 maturity inbred lines.

Entry	No.	Stewart's	Goss'
		wilt MO	wilt NE
		(1-5)	(1-9)
SC76 *	1	3.3	2.7
SC213 *	2	1.3	1.3
T232 *	3	2.0+	2.0
GT112RF	4	2.0++	1.0
NC246	5	3.3	1.0
NC248	6	3.0++	1.0
SC12	7	3.0++	1.7
SC43	8	2.0++	1.0
SC55	9	3.0++	1.0
Mp496	10	3.3	3.3
Tx601	11	.	3.3
Mean		2.7	1.8
LSD 0.05		0.5	NS
CV%		8.9	

\* Check entry.

+ Data missing from one replication.

++ Data missing from two replications.

Table 106. Fungal leaf disease and rust susceptibility evaluation of the 1100-1200 maturity Inbred lines.

Entry	No.	Downy mildew	North. leaf	Southern leaf blight			Northern leaf blight			South. leaf
		Infct. MS	spot AL	AL	Date 1 IL	Date 2 IL	AL	Race 1 IL	Race 2 IL	rust MS
		(%)	(1-5)	(1-5)	(%LA) <sup>#</sup>	(%LA)	(0-5)	(%LA)	(%LA)	(0-9)
SC76 *	1	1.7	0.7	1.7	13.3	33.3	0.0	2.0	7.0	6.3
SC213 *	2	3.3	1.7	3.3	6.7	26.7	0.0	4.3	4.3	7.3
T232 *	3	11.7	0.3	2.0	8.3	20.0	0.0	3.7	10.3	7.3
GT112RF	4	32.3	0.7	2.7	23.3	40.0	0.0	9.3	7.0	7.0
NC246	5	5.3	1.3	2.3	5.0	20.0	0.0	3.3	10.5	7.3
NC248	6	0.0	1.0	2.7	5.0	26.7	0.3	7.7	10.3	6.7
SC12	7	15.3	1.3	3.0	6.7	26.7	0.0	3.3	4.0	7.7
SC43	8	0.0	1.0	3.3	6.7	20.0	0.0	5.7	3.3	6.7
SC55	9	10.3	1.3	2.0	10.0	26.7	0.3	13.0	10.0	7.3
Mp496	10	3.7	0.7	1.3	8.3	16.7	0.0	1.0 <sup>++</sup>	3.0 <sup>++</sup>	4.0
Tx601	11	0.0	0.3	0.7	.	.	0.0	1.7	.	6.3
Mean		7.6	0.9	2.3	9.3	25.7	0.1	5.3	7.3	6.7
LSD 0.05		12.1	NS	NS	7.7	NS	NS	4.4	NS	1.1
CV%		93.1			47.9			48.3		9.3

\* Check entry.

++ Data missing from two replications.

# Represents percent of leaf area infected.



Table 107. Smut susceptibility evaluation of the 1100-1200 maturity inbred lines.

Entry	No.	Commn.	Head
		Infct. AL	Infct. TX
		(%)	(%)
SC76 *	1	0.9	4.4
SC213 *	2	1.8	0.0
T232 *	3	3.7	3.3
GT112RF	4	1.5	6.7
NC246	5	1.6	0.0
NC248	6	2.4	1.7
SC12	7	1.6	3.3
SC43	8	1.5	3.3
SC55	9	1.6	5.0
Mp496	10	0.8	46.7
Tx601	11	3.0	1.7
Mean		1.9	6.9
LSD 0.05		NS	15.8
CV%			133.1

\* Check entry.

Table 108. Virus susceptibility evaluation of the 1100-1200 maturity inbrid lines.

Entry	No.	MCDV OH	MDMV			MDMV rating MS	CLN rating KS	Virus rating OH
			MS	OH	Mean			
		(%)	(%)	(%)	(%)	(1-5)	(1-9)	(1-5)
SC76 *	1	65.6	2.4	6.3	4.3	1.0	7.7	3.0
SC213 *	2	52.8	68.3	27.3	47.8	2.6	6.7	3.0
T232 *	3	28.1	3.8	0.0	1.9	1.0	7.7	2.7
GT112RF	4	65.0	72.9	50.0	61.4	3.6	6.3	3.7
NC246	5	72.0	69.1	55.8	62.4	2.4	6.3	3.0
NC248	6	91.7	70.6	63.3	67.0	2.6	7.0	4.0
SC12	7	25.0	70.9	25.0	48.0	2.4	7.3	3.0
SC43	8	17.9	81.3	20.5	50.9	3.1	7.0	2.7
SC55	9	35.9	24.8	11.8	18.3	1.3	7.0	3.0
Mp496	10	51.7	18.3	0.0	9.2	1.4	7.7	2.7
Tx601	11	64.3	0.0	3.6	1.8	1.0	7.7	3.7
Mean		51.8	43.9	24.0	33.9	2.0	7.1	3.1
LSD 0.05		31.4	17.5	29.6	33.0	0.8	NS	0.8
CV%		35.3	23.2	72.1	76.0	23.2		15.9

\* Check entry.

Table 109. Insect susceptibility evaluation of the 1100-1200 maturity inbred lines.

Entry	No.	ECB		CEW	FAW# GA	SWCB MS
		First IA	Second IA	tunl. GA		
		(1-9)	(1-9)	(cm)	(0-9)	(1-9)
SC76 *	1	8.3	6.7	7.5	4.7	8.1
SC213 *	2	4.7	4.3	5.5	4.6	7.7
T232 *	3	4.0	7.0	6.2	5.2	7.0
GT112RF	4	6.3	6.0	6.1	4.7	7.9
NC246	5	4.7	6.0	5.9	4.4	8.1
NC248	6	3.3	5.0	6.5	4.8	7.6
SC12	7	4.0	4.7	6.2	4.3	7.2
SC43	8	4.7	6.7	5.5	4.2	7.4
SC55	9	6.0	7.3	7.9	4.4	8.1
Mp496	10	2.3	6.3	7.4	3.8	6.8
Tx601	11	9.0++	7.3	6.0	4.3	7.8
Mean		5.0	6.1	6.4	4.5	7.6
LSD 0.05		2.0	1.5	NS	NS	0.4
CV%		23.9	14.8			3.1

\* Check entry.

++ Data missing from two replications.

# Data from four replications.