

THE UNIFORM SOYBEAN TESTS NORTHERN REGION

1997

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INTRODUCTION

The purpose of The Uniform Soybean Tests is to critically evaluate the best of the experimental soybean lines developed by federal and state research personnel in the U.S. and Canada, for their potential release as new varieties.

A test is established for each of ten maturity groups. Uniform Test 00 includes maturity Group 00 strains adapted to production in the northern fringe of the present area of soybean production. Uniform Tests 0 through IV include later maturing strains adapted to locations progressively further south in the North Central States and areas of similar latitude. Each year new selections are added and others that have been sufficiently tested are dropped. The summary of performance of strains in Uniform Tests 00 through IV in the northern region is included in this report. The report on Uniform Tests IVS through VIII in the southern states is issued by the USDA-ARS Soybean Production Research Unit, P.O. Box 196, Stoneville, MS 38776.

Data from the Uniform Soybean Tests are the basis for decisions on the regional release of soybean varieties. Preliminary Tests are grown at a limited number of locations throughout the region to evaluate the experimental strains for one year before they are entered in the Uniform Tests. Uniform Tests are grown at more locations with more replications than Preliminary Tests.

The Uniform Soybean Test Report is a progress report containing statements which may or may not be verified by subsequent experiments. Statements or data in the report, therefore, should not be published unless permission has been obtained previously by those concerned.

The USDA-Agricultural Research Service does not vouch for the authenticity of either the parentage or ancestry of entries in the Uniform Soybean Tests. This agency is not responsible for the accuracy of data submitted to and included in The Uniform Test Report.

POLICY ON EVALUATION AND RELEASE OF STRAINS

Qualifications for inclusion in the Uniform Tests.

- 1) Experimental lines entered in the Uniform Tests, including Preliminary Tests, must be free of restrictions on their potential release as varieties or their use as parents in biparental crosses or as parents in recurrent selection programs.
- 2) It is recommended that breeders obtain written permission for the use of privately developed varieties or strains that are used as parents in the development of lines included in the Uniform Tests.

Use of Uniform Test entries in soybean breeding and research.

- 1) Seed of Uniform Test entries is for evaluation in the Uniform Tests only and may not be distributed to non-participants in these tests without prior approval by the originator of the entry.
- 2) Entries in the Uniform Tests may be used by Uniform Test participants as parents only in biparental crosses or in developing recurrent selection populations
- 3) The originator of a Uniform Test entry must obtain prior approval before using any entry as a recurrent parent in backcrossing, in any breeding or genetic studies, or for any other research.
- 4) Experimental strains entered in the Uniform Tests should be labeled "Experimental Strain" and should not be identified by strain designation when grown in demonstration plots or when the Uniform Tests are shown on field days or farm tours.

Release of Uniform Test entries.

- 1) Entries in the Uniform Tests are released according to USDA-Agricultural Research Service and State Agricultural Experiment Station or Canadian government policies.
- 2) Any state or province participating in the Uniform Tests is offered the opportunity to participate in the release of any Uniform Test entry proposed for release.
- 3) Entries may be released on a restricted basis or on a contractual basis only after Uniform Test Participants have been offered the opportunity to participate in the release of the entry.
- 4) Restricted or contractual releases cannot impose any restriction on the prior use of an entry as a parent by Uniform Test Participants.

STRAIN DESIGNATIONS

Experimental (i.e., unreleased) strains are identified by a number with a state or province code letter prefix. The code letters have been agreed upon in meetings of experiment station agronomists with the U.S. Department of Agriculture. Additional code letters may be used to designate the individual within a state or province that developed the strain.

A	Iowa A.E.S.
Ar	Arizona A.E.S.
Au	Alabama A. E. S.
B	California
C	Purdue (Indiana) A.R.P.
CM	Canada Dept. of Agriculture, Morden, Manitoba
D	Mississippi A.E.S.
E	Michigan A.E.S.
F	Florida A.E.S.
FC	Forage and Range Research Branch, USDA
Ga	Georgia A.E.S.
H	Ohio A.R.D.C. (HC=R.L. Cooper, HF=R. Fioritto, HS=S.K. St. Martin)
K	Kansas A.E.S.
Ky	Kentucky A.E.S.
L	Illinois A.E.S. (LN=C.D. Nickell, LG=R.L. Nelson)
La	Louisiana A.E.S.
LS	Southern Illinois University
M	Minnesota A.E.S.
Md	Maryland A.E.S.
Me	Maine A.E.S.
N	North Carolina A.E.S.
ND	North Dakota A.E.S.
OAC	University of Guelph, Guelph, Ontario
OX	Research Station, Harrow, Ontario
PI	Plant Inventory
R	Arkansas A.E.S.
S	Missouri A.E.S. (SS=D.Sleper
SC	South Carolina A.E.S.
SD	South Dakota A.E.S.
Ts	Texas A.E.S.
T	Soybean Genetic Type Collection, USDA, Urbana, IL
NU	Nebraska A.E.S.
UD	Delaware A.E.S.
UM	University of Manitoba, Winnipeg, Manitoba
UT	Tennessee A.E.S.
V	Virginia A.E.S.
W	Wisconsin A.E.S.
X(Y)	Two or more states cooperatively, e.g. ND(M) North Dakota and Minnesota
u	Nebraska

METHODS

Uniform tests are planted in multiple-row plots with three or four replications, and the center rows are harvested for yield and seed quality determinations. Preliminary Tests are multiple-row plots with two replications. Usually 15 to 20 feet of row are planted and 12 to 16 feet harvested, to eliminate end-of-row effects. Coefficients of variability are included with all replicated test data. Discretion is used in including data with high CVs in the regional means. If the CV is greater than 15, participants should include the reason, such as disease or environmental conditions. Lines may be heterogeneous for morphological traits the first year in the Uniform Tests but must be pure lines the second year of testing. It is the responsibility of the breeder to purify heterogeneous lines.

Generation Compositd is the generation after the final single-plant selection, when seeds from plants or rows are composited.

Previous Testing is the number of previous years in the same Uniform Test or, in the case of new entries, a reference to the previous year's test, abbreviated to PT IIA for Preliminary Test IIA, for example.

Yield is measured after the seeds have been dried to a uniform moisture content and is recorded in bushels (60 pounds) per acre. To convert to kilograms/hectare multiply by 67.25.

Maturity is the date when 95% of the pods have ripened, as indicated by their mature pod color. Delayed leaf drop and green stems are not considered in assigning maturity. Maturity is expressed as days earlier (-) or later (+) than the average date of the reference variety. To aid in maturity group classification, one earlier(E) and one later (L) check variety are given in the maturity column for each test, or a maturity check from an earlier or later maturity group is included. Current reference and check varieties and the maturity group limits relative to the reference varieties are:

<u>Group</u>	<u>Reference</u>	<u>Range</u>	<u>Early check</u>	<u>Late check</u>
00	McCall	-7 to +5		Agassiz
0	Lambert	-6 to +2	Agassiz (E)	Parker (L)
I	Farker	-4 to +4	Lambert (0)	Marcus 95 (L)
II	IA2021	-3 to +5	Marcus 95 (I)	IA2022 (L) 1994-6-19-17
III 1994 7-1-8	Iroquois	-4 to +4	IA2022 (II)	Macon (L)
IV 1995-1998	Stressland	-4 to +7	Macon (III)	KS4694 (L)

These maturity group ranges are based on long-term means over many locations. When using data from other environments, the interval between reference varieties may vary, and the division between maturity groups should be estimated in proportion to the above figures. Additional check varieties may be included in specific tests such as Freeborn (SCN) for resistance to the soybean cyst nematode in UT I, or Charleston (dt1) as a determinate check in UT IV.

Lodging is rated at maturity according to the following scores:

- 1 = Almost all plants erect
- 2 = All plants leaning slightly or a few plants down.
- 3 = All plants leaning moderately (45 degrees), or 25% to 50% of the plants down.
- 4 = All plants leaning considerably, or 50% to 80% of the plants down.
- 5 = Almost all plants down.

Height is the average length in inches of mature plants from the ground to the tip of the main stem. To convert to centimeters, multiply by 2.54.

Seed Quality is rated according to the following scores considering the amount and degree of wrinkling, defective seed coat (growth cracks), greenishness, and moldy or rotten seeds. Threshing or handling damage is not considered, nor is mottling or other pigment. Ratings for seed quality are:

- 1 - Very good 2 - Good 3 - Fair 4 - Poor 5 - Very poor

Seed Size (i.e. weight per seed) is recorded in grams per 100 seeds based on a 100- or 200-seed sample. To convert to seeds per pound, divide this into 45,359.2.

Seed Composition is measured on samples submitted to the USDA-ARS National Center for Agricultural Utilization Research, Peoria, Illinois. A 25-gram sample of clean seed is prepared by taking an equal volume or weight of seed from each replication. Protein and oil percentages are measured on these samples using near infrared transmittance, and are reported on a moisture-free basis.

Descriptive Code: 1 2 3 4 5 6 7 8 abbreviated as underlined below.

- 1 = Flower color: Purple, White
- 2 = Pubescence color: Tawny, Gray, Light tawny
- 3 = Pod color: Brown, Tan
- 4 = Seed coat luster: Dull, Shiny, Intermediate
- 5 = Seed coat color = Yellow, Gray, Light gray, Green
- 6 = Hilum color: Black, Imperfect black, Brown, Buff, Gray, Tan, Yellow;
prefixes indicate
Light or Dark shades, e.g. Lbf = light buff, Dib = dark imperfect black
H indicates heterogeneous for hilum color.
- 7 = Ep high seed coat peroxidase, ep low seed coat peroxidase, H heterogeneous
- 8 = Stem termination: Determinate, Indeterminate, Semi-Determinate

Shattering is scored at a specified time after maturity and is based on estimates of the percent of open pods as follows:

- 1 = No shattering
- 2 = 1% to 10% shattered
- 3 = 10% to 25% shattered
- 4 = 25% to 50% shattered
- 5 = Over 50% shattered

Iron chlorosis is rated from 1, no chlorosis, to 5, severe chlorosis.

Emergence score is related to hypocotyl elongation and is measured at Ames, Iowa by germination at 25 C (a critical temperature for differentiating strains). Four replications of 25 seeds/entry are planted in a 5-inch plastic pot at a 4.5 inch depth in sand. Seedlings that have emerged by 12 days after planting are counted and emergence score in relation to percent of seeds that germinate and emerge are as follows:

- 1 > 95%
- 2 = 91 to 95%
- 3 = 85 to 90%
- 4 = 76 to 84%
- 5 < 76%

DISEASE

Disease reactions are listed according to "Soybean Disease Survey Standards", March, 1960, unless otherwise specified. Disease reaction is scored from 1 (no disease) to 5 (very severe), or in some cases as percent infected or simply as + (present) or 0 (absent). Purple seed stain and seed mottling follow the disease severity class rating:

Disease severity class rating	1	2	3	4	5
Number of diseased seed in sample	0	1-3%	4-8%	9-19%	20-100%

An additional classification to describe the extent of seedcoat mottling as M (mild), E (extensive), or S (severe), is included. Pod and stem blight is rated as percent of infected seed on a four-week delayed ("d") harvest sample. The location where the test was made is identified in the column heading, and the letter "a" or "n" signifies artificial or natural infection. Clearcut and consistent reactions are given by letter instead of number: R = resistant, S = susceptible, I = intermediate, and H = heterogeneous. Natural infection ratings are from agronomic tests in some instances and from special disease plantings in others. Absence of symptoms under natural infection does not necessarily mean high resistance.

Abbreviation	Disease	Pathogen
BB	Bacterial blight	<u>Pseudomonas syringa</u> pv. <u>glycinea</u>
BBV	Bud blight	Tobacco ringspot virus
BP	Bacterial pustule	<u>Xanthomonas campestris</u> pv. <u>phaseoli</u>
BS	Brown spot	<u>Septoria glycines</u>
BSR	Brown stem rot	<u>Phialophora gregata</u>
BTS	Bacterial tan spot	<u>Corynebacterium flaccumfaciens</u>
CN	Cyst nematode	<u>Heterodera glycines</u>
CR	Charcoal rot	<u>Macrophomina phaseolina</u>
DM	Downy mildew	<u>Peronospora manshurica</u>
FE	Frogeye leafspot	<u>Cercospora sojae</u>
PM	Powdery mildew	<u>Microsphaera diffusa</u>
PR	Phytophthora rot	<u>Phytophthora sojae</u>
PS	Purple stain	<u>Cercospora kikuchii</u>
PSB	Pod & stem blight	<u>Diaporthe phaseolorum</u> var. <u>sojae</u>
Pyd	Pythium root rot	<u>Pythium debaryanum</u>
Pyu	Pythium root rot	<u>Pythium ultimum</u>
RK	Root knot nematode	<u>Meloidogyne</u> spp.
RP	Rhizoctonia root rot	<u>Rhizoctonia solani</u>
SB	Sclerotial blight	<u>Sclerotium rolfsii</u>
SC	Stem canker	<u>Diaporthe phaseolorum</u> var. <u>caulivora</u>
SCL	Sclerotinia stem rot	<u>Sclerotinia sclerotiorum</u>
SDS	Sudden death syndrome	<u>Fusarium solani</u>
SMV	Soybean mosaic virus	<u>Soja virus 1</u>
TS	Target spot	<u>Corynespora cassiicola</u>
WF	Wildfire	<u>Pseudomonas syringae</u> var. <u>tabaci</u>
YMV	Yellow mosaic virus	<u>Phaseolus virus 2</u>

Rating for BB, BP, DM, FE, and PM are based on leaf symptoms; those for BSR on percent of plants with stem browning, or percent of stem length browned.

Tolerance rating categories for Phytophthora rot are as follows:

- 1 = No root rot, very vigorous
- 2 = No root rot, better than average vigor
- 3 = No root rot, average vigor
- 4 = No root rot, slight stunting
- 5 = Up to 10% dead plants, slight stunting
- 6 = Up to 20% dead plants, moderate stunting
- 7 = Up to 50% dead plants, moderate to severe stunting
- 8 = More than 50% dead plants, severe stunting
- 9 = All plants died before flowering
- 10 = Plants did not emerge or died soon after emergence

The percent purple stain and Phomopsis seed infection is based on a 100-seed sample plated on potato-dextrose agar in petri dishes.

The percent green seed is based on a 100-seed sample and is the number of seed with a green or partially green seedcoat.

Abbreviations used in sudden death syndrome (SDS) ratings are as follows:

- R6Date = Days from planting to R6.2 growth stage
- R6DI = SDS Disease Incidence (% of plants with visible leaf symptoms)
- R6DS = SDS Disease Severity (1=mild chlorosis, 5=severe leaf scorch, 9=premature death of the plant)
- R6DX = SDS Disease index ($R6DI \times R6DS / 9$)

PROCEDURE FOR TESTING AND RELEASE OF STRAINS

This policy on testing and release of soybean strains evaluated in the Uniform Soybean Tests Northern Region, has been agreed upon by public soybean breeders. The policy was developed to assist breeders in preparing schedules for seed increases and to assist individuals and committees responsible for approving releases. The policy will aid private breeders in the U.S. and foreign countries to understand how releases will be made that may affect their programs.

Development and release of soybean strains is carried out by many public institutions. The programs at these institutions operate independently until strains are available for advanced testing in the Uniform Soybean Tests. The Uniform Soybean Tests are coordinated by the USDA-Agricultural Research Service. The tests are divided into those in the Northern Region, for strains in maturity groups 00 to IV, and those in the Southern States, for strains in maturity groups IVS to VIII. Group IV maturity strains are divided into a IVN test for the northern region and a IVS test for the southern states. Public soybean breeders are encouraged to enter superior strains they develop into the Uniform Soybean Tests.

Strains are evaluated for one year in the Preliminary Tests (PT), which are conducted at eight or more locations in several states. When the tests are completed, each public breeder is given the opportunity to review the results and to decide which strains merit further testing. In instances where there is little consensus among the breeders on the merits of a strain, the originator of the strain generally makes the final decision.

Strains that merit further testing are evaluated in the Uniform Tests (UT) conducted at more locations than Preliminary Tests and with three or four replications. Lines developed by four or more backcrosses to a released cultivar may be entered directly into the UT without prior evaluation in PT. Strains evaluated in Regional Cyst Nematode (SCN) tests may also be entered directly into the UT.

Strains may be considered for release after they have been evaluated for two years in the UT. Exceptions to this are special purpose strains or strains derived from four or more backcrosses to a released cultivar; these may be considered for release after one year in the UT. Consideration for release of any strains in the UT may be requested by any institution or breeder participating in the Uniform Soybean Tests, however it is usually initiated by the institution that developed the strain.

A strain should be released only if it is distinctly superior to existing varieties in one or more characteristics important for the crop, or it is superior in overall performance in areas where adapted. A single major production hazard which a new cultivar can overcome, e.g., a highly destructive disease, may be the overriding consideration in releasing a variety. Strains with a very limited range in adaptation should not be released unless performance in that limited range is outstandingly superior, or the strain possesses important use values not otherwise available, including diversification of the germplasm base for the species.

When a decision has been made to multiply a strain for release, the originating institution will inform other UT participants of the decision by February 15. This will give each UT participant the opportunity to participate in the multiplication and release of the strains.

By March 15 all institutions intending to participate in the multiplication of the strain must notify the originating institution of their intent. A final decision to participate in the release of the strain may be delayed until an additional year's data are available for review. By April 1 the originating institution should notify all UT participants what states will be participating in the multiplication and are considering participating in the release of the strain. Breeders seed is distributed to foundation seed organizations in participating states for production during the summer. At this time, if a final decision to release has been made, a sample of seed may be distributed to non-participants in the UT, including private soybean breeders, in accordance with a State's Experiment Station policy. This distribution is made only by the originating institution.

A release notice to soybean seed producers listing all institutions participating in the release of the cultivar is prepared by the originating institutions. This notice is circulated for signature by all participating institutions. Assistance in the preparation and circulation of this release notice may be obtained by Dr. Judith St. John, Associate Deputy Administrator for Plant Science, USDA, ARS, Bldg. 005, BARC-West, Beltsville, MD 20705, phone 301-504-6252. The office for clearance of proposed names of new soybean cultivars is : Mr. James P. Triplett, Chief, Seed Regulatory & Testing Branch, Livestock and Seed Division, AMS/USDA, Bldg. 506, BARC-East, Beltsville, MD 20705-2350, phone 301-504-9430. The date for simultaneous publicity release on new soybean cultivars by participating states is determined by the originating state, and is usually in August but may be delayed until the following April if additional UT data are being reviewed and a final decision to release has not been made.

If an additional year of UT data are being reviewed prior to a final decision on release, states producing foundation seed must notify the originating state by February 15 of their intent to participate in the release of the cultivar. The release notice to soybean seed producers should be distributed for signature by the participating institutions by April 1.

Foundation seed under the name of the new cultivar is distributed to qualified certified seed producers in states releasing the new cultivar by April 1. At this time a sample of seed may be distributed to non-participants in the UT, including private plant breeders, for testing and crossing if this distribution has not been made previously.

UNIFORM TEST STRAINS RELEASED IN 1997

Variety	Experimental designation	Uniform Test evaluations
Apollo	E93001	PT IIB 1994, UT II 1995-1996
Croton 3.9	HC89-2232	PT IVA 1993, UT III 1994-1996
<i>Dwight</i>	<i>LN92-10507</i>	<i>SCN PII 1995, SCN UII 1996-1997, UT II 1997</i>
IA2036	A93-553034	SCN PII 1994, SCN UII 1995-1997, UT II 1996-1997
MN0301	ND(M)89-111, SL89-111	UT 0 1993-1996
MN1301	M89-936	PT I 1993, UT I 1994-1996
NE 3297	U93-2412	PT IIA 1994, UT III 1995-1996
Olympus	E91031	PT IIA 1992, UT II 1993, 1995, 1996
<i>Pana</i>	<i>LN92-10855</i>	<i>SCN PII, 1995, SCN UII 1996-1997, UT III 1997</i>
Stride	SD(M)92-1357, SL92-1357M	UT 0 1994, UT I 1995-1996
Surge	SD(M)92-1233, SL92-1233M	UT 0 1994-1996
Traill	ND90-2624	UT 0 1994, UT 00 1995-1996

Variety	Release date	Releasing states	Foundation seed production
Apollo	February 25, 1997	MI, NE	1997
Croton 3.9	September, 1997	MD, OH	1997
<i>Dwight</i>	<i>1997</i>	<i>IL</i>	<i>1997</i>
IA2036	February, 1997	IA, IL	1997
MN0301	February 14, 1997	MN, SD	1996
MN1301	February 14, 1997	MN	1996
NE 3297	August, 1997	NE	1997
Olympus	February 25, 1997	MI, NE	1996
<i>Pana</i>	<i>1997</i>	<i>IL</i>	<i>1997</i>
Stride	February, 1997	MN, SD	1996
Surge	February, 1997	MN, ND, SD	1996
Traill	January, 1997	MN, ND	1996

IDENTIFICATION OF PARENT STRAINS 1997

Strain	Parentage
A1	Anoka x Mack
A4	L15 x AP68-1016
A6	Mutant with 28.1% stearic acid
A8	A4 x Century
A13	Selection from AP9 Fe (S1) C7
A17	BSR 101 x CN210
A20	BSR 101 x CN210
A55-5629-4	Roanoke x Hawkeye
A71-5558-1	Wirth x AX210-39-2
A72-507	Amsoy x Wayne
A72-507BC	[A72-507(6) x A1] x [A72-507(5) x PI 82.263-2]
A73-21030	L65-1342 x IVR 4311
A75-204018	IVR Ex 4731 x Wirth
A75-305022	Wye x (Amsoy x Wayne)
A75-332035	L15 x AP68-1016
A76-202015	AP6
A76-304020	(Beeson x AP68-1016) x (L15 x Calland)
A77-314013	A73-21030 x Williams
A78-123018	Prode B216 x Hodgson
A79-135010	Pride B216 x Cumberland
A79-136012	Pride B216 x Land O' Lakes 4102
A80-145015	(Corsoy x Wayne) x Peterson 118-11
A80-244003	Northrup King S1492 x Pella
A80-344003	A75-332035 x Century
A81-151026	A75-204018 x Century
A81-356022	Century x A76-304020
A82-161034	A77-314013 x Pride B216
A83-271027	Northrup King S1492 x Asgrow A3127
A83-274011	Asgrow A3127 x Trivalley Charger
A86-203004	Hack x Zane
A86-204022	Hack x Zane
A86-301024	A81-356022 x Hack
A86-303014	A81-356022 x Hack
A87-196014	BSR 101 x A80-344003
A89-144036	A82-161034 x BSR 101
A90-311023	Conrad x L80-4187
A91-501002	AgriPro AP2190 x A86-301024
A91-701035	A86-301024 x Dekalb 226
A92-532027	Asgrow A2187 x (A87-186011 x Asgrow A2234)
A92-535059	Asgrow A2187 x [(A87-186011 x DSR 252) x A87-187020]
AgriPro 26	Beeson x Calland
AgriPro AP1989	AgriPro 26 x Vickery
AP6	Crop Science 15:739
AP9	Crop Science 20:677
AP68-1016	Clark(5) x PI 84.946-2
Asgrow A1564	Hark x C1453
Asgrow A1895	Asgrow A2575 x L73-827
Asgrow A1937	Hodgson 78 x Wayne
Asgrow A2234	[(Calland x Amsoy) x Century(3)] x Williams 82

IDENTIFICATION OF PARENT STRAINS 1997

Strain	Parentage
Asgrow A2242	Sherman x XP1928
Asgrow A2396	Asgrow A2943 x CM214
Asgrow A2575	C1453 x Amsoy 71
Asgrow A2943	Asgrow A1564 x Asgrow A3127
Asgrow A3127	Williams x Essex
Asgrow A3205	Northrup King S1474 x Asgrow A3127
Asgrow A3733	Elf x Asgrow A3127
Asgrow A3860	Williams x Essex
Asgrow A3935	M0474C x Asgrow A3127
Asgrow A4009	Asgrow A3860 x Fayette
Asgrow A4268	Asgrow A1564 x Asgrow A3127
Asgrow A4393	X4136 x Elf
Asgrow A4595	Douglas x Asgrow A3127
Asgrow A5474	J74-122 x (Tracy x D71-6234)
AX56P64-1	Adams x Harosoy
AX162-12	Ford x PI 68.708
AX210-39-2	D49-2491(4) x AX162-12
C1079	Lincoln x Ogden
C1253	Blackhawk x Harosoy
C1266R	Harosoy x C1079
C1453	C1266R x C1253
C1627	Century x Hodgson
C1651	A75-305022 x Century
C1655	Hobbit x Century
C1725	M2 selection from Century
C1727	M2 selection from Century
C1742	A80-344003 x Century 84
C1747	A80-244003 x Williams 82
C1797	C1627 x A81-151026
C1802	C1651 x C1627
C1813	C1655 x Pella 86
C1817	C1655 x A83-274011
CRS3-998-24-1	Selection from recurrent selection population for seed protein
CRS3C4	Selection from recurrent selection population for seed protein
CRS7C4	Selection from recurrent selection population for seed protein
CX1334-323	A6 x C1725
D49-2491	S100 x CNS
D61-2624	D49-2491(4) x PI 163.453
D61-3505	D49-2491(4) x PI 163.453
D66-7398	D61-3505 x (PI 96.035 x D61-2624)
D68-18	Dyer x Bragg
D71-6234	D66-7398 x PI 95.960
D77-5169	Centennial x J74-47
Dairyland DSR 290	BSR 201 x Asgrow A3127
Dairyland DSR 304	Williams x Unknown
E86067	A80-145015 x A79-135010
E86239	HW8039 x Elgin
E90009	Hodgson 78 x Fengshou 12
Elf BC	Elf(6) x Williams 82

IDENTIFICATION OF PARENT STRAINS 1997

Strain	Parentage
HC74-634RE	Williams x Ransom
HC78-676	L70T-543G x L74D-619
HC78-676BC	HC78-676(6) x Williams 82
HC80-1756	L73U-632 x Elf
HC80-1946	L72U-2567 x Elf
HC83-4523	L74D-634 x Hobbit
HC84-553-1	Hobbit x K74-104-76-205
HC84-2556	HW74-3400 x L76-0022
HC85-5273	Asgrow A3127 x Forrest
HM8493	(Hardin x Williams 82) x [Asgrow A3127 x (A72-507BC x K74-104-76-1650)]
HM8632	Zane(3) x HW79149
HS86-6363	HM8493 x [Zane(6) x HW79149]
HS87-5964	Winchester x A83-271027
HS88-4909	Conrad x Hayes
HS88-4970	Asgrow A2943 x A83-271027
HS88-4988	Winchester x A83-271027
HS89-2943	Winchester x A83-271027
HS90-6765	HS86-6363 x HS87-5974
HW74-3400	Williams x Ransom
HW8039	L73-4673 x Fayette
HW79149	[A72-507(6) x A1] x [A72-507(5) x PI 82.263-2]
IVR 1120	Provar x (AX56P64-1 x PI 191.110-1)
IVR 4311	Hack x Wayne
IX93	A71-5558-1 x L61-344
J74-47	Forrest(2) x (D68-18 x PI 88.788)
J74-122	Forrest(2) x (D68-18 x PI 88.788)
J103	Clay x Williams
Ja53-7-6	Selection from Japanese variety
K74-104-76-165	Tracy x Williams
K74-104-76-205	Tracy x Williams
K74-114-75-000	Tracy x Bonus
K1148	Essex x Cumberland
K1161	Harper x Asgrow A3127
L15	Wayne(6) x Clark 63
L57-0034	Clark x Adams
L61-344	Harosoy(6) x T117, <u>Dt2</u>
L62-1251	Clark(6) x T117
L62-1926	Clark(6) x PI 86.024, <u>e2</u>
L65-1342	Wayne(2) x L62-1926
L66L-140	Wayne x L57-0034
L66L-154	Wayne x L57-0034
L67-592	Clark(6) x Higan, <u>S</u>
L68-0376	Clark(2) x PI 84.946-2
L68-4106	[L15(5) x L11, <u>r</u>] x [Wayne(10) x Kanrich, <u>Rpm</u>]
L70T-543G	L15 x Amsoy 71
L72U-2567	Williams x Ransom
L73-827	L6 x (L67-592 x L62-1251)
L73-4673	Corsoy x L57-0034
L73U-632	Miller 67 x L66L-140

IDENTIFICATION OF PARENT STRAINS 1997

Strain	Parentage
L74D-619	Williams x Ransom
L74D-634	Williams x Ransom
L6	L8 x L7
L7	Clark(8) x Blackhawk
L8	Clark(6) x L49-4091
L11	[Clark(6) x T201] x [Clark(6) x T145]
L76-0328	Williams x PI 229.358
L77-906	Williams x PI 209.332
L78-189	Corsoy x Kingwa
L78-4245	L68-4106 x L68-0376
L80-4187	Williams(2) x PI 88.788
L82C-1212	Williams 82 x Fayette
L84-5873	Crop Sci.32:835
L84-5932	Crop Sci. 32:835
L84-6189	Williams 82 x L78-4245
L85P-558	L73-4673 x Fayette
LG84-1291	PI 68.522 x Hobbit
LG85-3343	PI 361.064 x PI 407.710
LG86-6989	PI 253.665D x PI 283.331
Land O'Lakes 4102	[Wayne x (Clark x Adams)] x Cutler
LN80-9447	Weber x A76-202015
LN81-1029	K74-114-75-000 x Pella
LN84-7577	Hack x Elgin
LN84-8588	Hack x Harper
LN84-15336	LN90-9447 x Asgrow A3127
LN84-7577	Hack x Elgin
LN84-8588	Hack x Harper
LN86-983	Hack x BSR 101
LNx8132	Hack x A78-121014
LS344	Variety from Poland
LS346	Variety from Poland
LS-434	Variety from Poland
LS-436	Variety from Poland
LS85-5031	Mack x Crawford
M10	Lincoln(2) x Richland
M53-117	M10 x PI 180.501
M54-12	Renville x Capital
M54-139	Renville x Capital
M54-240	[Lincoln(2) x Richland] x Korean
M59-120	M54-240 x M54-139
M60-406	Blackhawk x Harosoy
M61-20	Merit x Comet
M61-224	Merit x Harosoy
M63-194	Corsoy x PI 132.207
M63-217Y	Corsoy x M53-117
M64-3	Traverse x PI 196.163
M65-69	M54-12 x Corsoy
M65-442	Anoka x Amsoy
M66-30	Magna x M61-20

IDENTIFICATION OF PARENT STRAINS 1997

Strain	Parentage
M68-49	Evans x M59-120
M68-49-26	Evans x M59-120
M68-99	M59-120 x Amsoy 71
M68-256	Evans x Steele
M68-303	M60-406 x Beeson
M70-127	Evans x M63-217Y
M70-271	Merit x M64-3
M70-294	Ja53-7-6 x M63-217Y
M71-148	Clay x Evans
M72-3	Evans x Hodgson
M73-37	Evans x XK505
M73-62	M61-224 x PI 297.518
M73-129	M68-49 x Hodgson
M74-179	M68-256 x Clay
M74-227	M68-49 x M63-194
M74-394	Hodgson x Wells
M75-89	Corsoy x M68-303
M75-274	Evans x L70T-543
M76-142	M70-271 x Corsoy
M76-148	M70-271 x Hodgson 78
M76-151	M70-127 x Hodgson 78
M77-75	Coles x M66-30
M81-18	Evans x M65-442
M81-27	M68-49-26 x M70-294
M81-381	M70-127 x Century
M82-996	M72-3 x Peterson 1677
M83-64	M74-227 x L78-189
M83-442	M71-148 x Pioneer o877
M83-744	M73-129 x M73-37
M83-766	Evans x M74-394
M83-899	M74-270 x A78-123018
M84-93	M71-148 x Ozzie
M84-833	M76-142 x Weber
M84-855	M76-148 x Glenwood
M85-23	M71-148 x Simpson
M85-52	M73-62 x Simpson
M85-122	M74-179 x M77-75
M85-647	Ozzie x Fayette
M86-918	J103 x Ozzie
M86-1973	L77-906 x M75-89
M86-2337	Evans x Asgrow A1937
M87-926	Chico x PI 437.296
Md87-5602	Pershing x D77-5169
M0385	IVR 1120 x Calland
M0474C	White-flowered off-type in Mitchell
MSBP1	Male-steile (ms2) intermated population
Northrup King S18-84	Northrup King S1492(4) x Tracy
Northrup King S19-90	Pride B152 x Pella
Northrup King S20-20	Pride B152 x CM497

IDENTIFICATION OF PARENT STRAINS 1997

Strain	Parentage
Northrup King S23-12	Northrup King S1346 x Asgrow A2575
Northrup King S26-06	Northrup King S18-84 x Matsoy
Northrup King S29-39	Pride B152 x 9240R
Northrup King S1346	A55-5629-4 x PI 257.435
Northrup King S1492	Corsoy x Wayne
Northrup King S1474	Hark x Wayne
ORC8802	Hack x Asgrow A1895
OT87-7	(Maple Presto x Williams) x Weber
OT88-11	Maple Ridge x Lakota
OX8624-1	Elgin x PMGTC3
OX85274-8	PMGTC3 x Zane
Peterson 85	Provar x (Amsoy x PI 248.404)
Peterson 118-11	Corsoy x (Hawkeye x Chippewa)
Peterson 1677	Rampage x Corsoy(2)
Pioneer 0877	(Clark x Chippewa 64) x Corsoy
Pioneer 1677	Rampage x Corsoy(2)
Pioneer P9061	Wells x Pioneer 1677
Pioneer P9091	Peterson 85 x Peterson 1677
Pioneer P9273	Pioneer Brand 2981 x Asgrow A3127
Pioneer P9303	Pioneer Brand 2981 x M0385
Pioneer P9341	CM304 x Asgrow A3127
Pioneer P9391	Asgrow A3127 x Williams 79
Pioneer P9401	Williams x Cutler 71
Pioneer P9441	Williams x Essex
Pioneer P9442	Pioneer P9441 x Asgrow A3127
Pioneer P9461	(351-29 x Asgrow A4268) x (Pioneer P9401 x Asgrow A3127)
Pioneer P9501	(Pioneer 1011 x Pioneer 3481) x (Pioneer 1262-41 x Pioneer 4280)
PMGTC3	Crop Sci. 24:213
Polan	Variety from Poland
Pride B152	Northrup King S1346(6) x Mack
Pride B216	Corsoy x Wayne
R75-579	Forrest x Mack
R85-3280	Narow x R75-579
SD87001	Fiskeby x IX93-100
Sigco KG20	McCall x 2S11
T117	AK114 (from AK) x PI 65.394
U91-2529	A86-204022 x HC84-553-1
V68-1034	York x PI 71.506
XK 505	Off-type found in Calland
XP1928	(Hardin x Williams 82) x {(Tracy x Williams) x HW79149} x Asgrow A3127
059-903	Fiskeby III selection
2S11	059-903 x Hardome

SENCOR TOLERANCE

Evaluations for reaction to Sencor were determined by JoAnn R. Tinney, Agricultural Division of the Bayer Company. Tolerance to Sencor (metribuzin) was determined in a single hydroponic test. Additional field and greenhouse tests are recommended to accurately determine tolerance of these strains to metribuzin. Strains are placed in one of three groups: 1) Above Normal Tolerance, soybean plants showing the greatest tolerance to Sencor, 2) Normal Tolerance, soybean plants showing good tolerance to Sencor, and 3) Sensitive, soybean plants showing the least tolerance to Sencor and for which the use of Sencor is not recommended. Strains listed towards the top in the left column of the normal category expressed higher levels of than those listed towards the bottom in the right column.

SENCOR TOLERANCE TABLE

ABOVE NORMAL TOLERANCE	NORMAL TOLERANCE	NORMAL TOLERANCE	NORMAL TOLERANCE	NORMAL TOLERANCE	SENSITIVE
LN92-10725	SD94-186	A95-485020	ND(M) 90-128010	U95-3135	SS92-9933
LN92-10855	HS93-4118	A94-673009	McCALL	M91-947	M90-135046
IA2036 (SCN)	U95-3213	M90-239130	LN93-11632	M92-540	ND(M) 90-147063
LN94-10527	SS92-9082	M92-407	ND93-6247	GLACIER	ND(M) 90-147043
M92-1645	SD93-828	M90-184101	A94-674017	K1351	M90-162034
ND(SD) 92-2381	M92-1482	LS93-0292	SS91-6611	ND91-2721	C1937
LN94-10477	M92-1708	LAMBERT	SS91-7138	A95-581022	
LN93-13684	A94-774021	M91-112019	U94-2306	ND(M) 90-148037	
LN93-7027	M92-1631	M91-103023	M92-590	M92-281	
IA2021	Md92-5850	STRESSLAND	CHARLESTON (dt1)	E93147	
LN92-10507	MACON	M91-1137	ND91-2735	ND(M) 90-148074	
HC90-196	LS92-3660	RIPLEY (dt1)	A95-582004	M90-178096	
M92-1731	E94172	TRAILL	ND(M) 91-895	V92-0847	
HC90-2517	SD93-522	M92-405	ND93-6064	M92-1605	
HC91-1770	K1353	HC92-1626	U95-2418	ND(M) 90-148031	
IA2008R (BSR)	LS92-4173	M91-821	E94489	M90-147022	
MARCUS 95	HC92-984	ND93-5949	ND93-6072	IROQUOIS	
LN93-13633	LN93-11945	ND93-5936	SD94-751	A95-682026	
HC91-1662	SD94-1590	M90-128078	ND(M) 138016	HF93-035	
KS4694	LS93-0232	ND93-6039	SD (ND) 94-9231	A95-582006	
IA3005 (SCN)	HC87-5891	ND93-6078	SD94-817	LN93-5265	
M90-217007	U94-3412	SD94-996	M90-184111	M92-64	
Md93-5010	M90-137050	AGASSIZ	SS92-9047	HC92-1606	
ORC9502	A95-581028	ND93-6074	M92-538	IA3004 (BSR)	
	LS93-0375	M90-249101	E94487	IA2022	
	MUSTANG	M90-139058	M90-144076	IA1006 (BSR)	
	M92-597	SD94-667	ND(M) 90-129057	U95-2219	
	M90-145063	FREEBORN	M92-542	M90-144096	
	M92-674	M92-647	ND(M) 90-145029	MAPLE RODGE	
	M92-1571	SD (ND) 94-9218	ND93-6278	E93424	
	M90-144099	PARKER	M90-1279		
	ND(M) 92-384	ND92-1111	U95-3231		

1997 DISEASE, SHATTERING, AND DESCRIPTIVE DATA

Location		Tests Conducted By:	Tests	UT	PT
IA	Ames	W. Fehr	Emergence Score	00-IV	
	Ames	W. Fehr	Iron Chlorosis	00-III	I-III
	Ames	M. Uphoff	BSR Resistance	I-III	I-III
	Ames	M. Uphoff	PR4	I-III	I-III
IL	Ullin	M. Schmidt	SDS	IV	
		& R. Suttner			
IN	Lafayette	T. Abney	PS	I-IV	I-IV
	Lafayette	T. Abney	PS&B	I-IV	I-IV
	Lafayette	T. Abney	Hard Seed	I-IV	I-IV
	Lafayette	J. Wilcox	PR7	00-IV	I-IV
KS	Manhattan	W. Schapaugh, Jr.	Shattering Score	00-IV	I-IV
WI	Arlington	E. Oplinger	SCL	0-II	

1997 UNIFORM AND PRELIMINARY TEST LOCATIONS

Location	Tests Conducted By:	Uniform Tests						Preliminary Tests			
		00	0	I	II	III	IV	I	II	III	IV
DE	Georgetown					X	X				
IA	Ames				X*				X*		
	Fairfield					X*				X*	
	Grand Junction				X						
	Greene			X							
	Griswold					X					
	Hubbard				X				X		
	Kanawha			X*				X*			
	Pocahontas			X				X*			
	Stuart					X				X	
IL	Dekalb				X						
	Dewight				X						
	Nashville						X				X
	Newton					X	X*				
	Ridgway					X*	X				
	Ullin						X				
	Urbana				X*	X*	X*		X*	X*	X*
IN	Lafayette			X	X*	X*	X*		X*	X*	
	Wanatah				X	X					
KS	Manhattan					X	X			X	X
	Ottawa						X				
	Powhattan					X					
	Topeka					X	X				
KY	Lexington					X	X*				X*
MD	Queenstown					X	X				X
MI	Ingham Co.			X*	X			X*	X*		
	Lanawee Co.				X						
	Saginaw Co.			X							
MN	Crookston	X*									
	Lamberton			X*	X*			X*			
	Moorhead	X*									
	Morris		X*								
	Rosemount		X*								
	Shelly	X									
	Waseca			X	X			X			

UNIFORM AND PRELIMINARY TEST LOCATIONS 1996

Location	Tests Conducted By	Uniform Tests						Preliminary Tests			
		00	0	I	II	III	IV	I	II	III	IV
MO	Columbia					X	X			X	X
	Portageville						X				
NE	Hartington			X*	X						
	Hildreth				X	X			X		
	McCool Jct.				X*	X*			X*	X*	
	Ord			X							
	Tekamah					X				X	
NJ	Adelphia				X	X	X		X		
ND	Casselton	X*	X*								
OH	Hoytville				X	X			X	X*	
	Mt. Orab						X*				X*
	Plain City					X					
	So. Charleston					X				X	X
	Wooster				X	X	X				
ONT	Elora	X									
	London			X							
	Ottawa	X*	X								
	Ridgetown			X	X						
	Woodslee				X				X		
	Woodstock		X								
SD	Beresford				X				X		
	Brookings		X*	X*	X*			X*	X		
	Watertown		X*	X							
WI	Arlington		X	X	X						
X Location With Agronomic Data		6	8	15	23	23	17	6	12	10	8
X* Location With Seed Composition Data		4	5	5	5	5	5	5	5	5	3

Uniform Test 00, 1997

	Strain	Parentage	Previous Testing	Generation Composited	Unique Traits
1.	Agassiz (0)	Simpson x M71-148	8	F5	Rps1
2.	Glacier	McCall x Altona	1	F4	Rps6
3.	Maple Ridge	Fiskeby III x Evans	16	F5	
4.	McCall (00)	(Acme x Chippewa) x Hark	22	F5	
5.	Traill	M82-996 x Sigco KG20	2	F5	
6.	M90-137050	M87-332 x Maple Ridge	-	F5	Rps1
7.	M90-139058	Polan x Maple Ridge	-	F5	
8.	M90-144076	LS-344 x Maple Ridge	-	F5	Rps1
9.	M90-144096	LS-344 x Maple Ridge	-	F5	Rps1
10.	M90-144099	LS-344 x Maple Ridge	-	F5	Rps1
11.	M90-145063	LS-344 x McCall	-	F5	Rps1
12.	M90-147022	LS-436 x Maple Ridge	-	F5	Rps1
13.	M92-405	Agassiz x Ozzie	1	F5	Rps1
14.	ND91-2721	Sigco KG20 x M81-18	2	F5	
15.	ND91-2735	Sigco KG20 x M81-18	2	F5	
16.	ND(M)90-129057	Maple Belle x M87-1038	-	F5	
17.	ND(M)90-145029	LS-344 x McCall	-	F5	
18.	ND(M)90-147043	LS-436 x Maple Ridge	-	F5	
19.	ND(M)90-147063	LS-436 x Maple Ridge	-	F5	
20.	ND(M)90-148031	LS-436 x McCall	-	F5	
21.	ND(M)90-148037	LS-436 x McCall	-	F5	
22.	ND(M)90-148074	LS-436 x McCall	-	F5	

UNIFORM TEST 00, 1997

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	Chlorosis Score Ames	Emergence Score Ames	Shattering Score Manhattan	PR Lafayette Race 7
Agassiz (0)	PGBrDYBfEpI	2.0	1.0	2.0	S
Glacier	PTBrDYEpI	2.8	3.0	3.0	S
Maple Ridge	PTBrDYEpI	2.0	5.0	2.0	S
McCall (00)	PGTnSYEpI	2.3	1.0	3.0	S
Traill	PTBrSYEpI	--	4.0	--	S
M90-137050	PGBrDYEpI	1.7	5.0	2.0	S
M90-139058	WTBrIYYHI	1.6	1.0	3.0	S
M90-144076	WTBrDYEpI	1.5	1.0	2.0	S
M90-144096	PTBrDYEpI	1.2	2.0	2.0	S
M90-144099	PTBrDYEpI	1.1	2.0	3.0	S
M90-145063	WGTnDYEpI	1.5	2.0	3.0	S
M90-147022	PGBrDYEpI	1.7	2.0	3.0	S
M92-405	PGBrDYBrEpI	1.5	2.0	2.0	S
ND91-2721	PGBrDYEpI	1.7	3.0	2.0	S
ND91-2735	PGBrDYEpI	1.6	4.0	2.0	S
ND (M) 90-129057	PGBrDYBrEpI	2.1	3.0	2.0	S
ND (M) 90-145029	PGTnDYEpI	2.0	2.0	3.0	S
ND (M) 90-147043	PGBrDYEpI	1.8	3.0	3.0	S
ND (M) 90-147063	PGBrDYEpI	2.0	2.0	4.0	S
ND (M) 90-148031	PGBrDYEpI	2.0	2.0	4.0	S
ND (M) 90-148037	PGBrDYEpI	1.3	3.0	4.0	S
ND (M) 90-148074	PGBrDYEpI	2.1	1.0	4.0	S

UNIFORM TEST 00, 1997

REGIONAL SUMMARY

No. of Tests Strain	Yield	Rank	Maturity	Lodging	Plant Height	Seed Quality	Seed Size	<u>Composition</u>	
	6 bu/a	6 No.	6 Date	6 Score	6 In	6 Score	6 g/100	4 %	4 %
Agassiz (0)	37.3	2	7.7	1.2	28	1.9	14.4	40.7	20.3
Glacier	33.2	13	3.2	1.2	26	2.2	15.3	40.8	19.3
Maple Ridge	33.2	13	-3.7	1.0	25	2.4	15.4	40.5	19.5
McCall (00)	30.9	20	9/7	1.0	25	2.2	15.2	39.2	20.1
Traill	36.5	3	6.5	1.2	26	2.1	16.7	41.7	18.9
M90-137050	37.8	1	4.2	1.0	25	1.9	16.4	41.4	19.1
M90-139058	31.6	18	-0.5	1.0	27	2.5	15.3	40.3	20.9
M90-144076	33.9	11	-0.8	1.1	26	2.2	15.1	40.1	19.4
M90-144096	34.1	10	-2.3	1.1	25	2.0	16.5	41.9	19.0
M90-144099	33.8	12	-1.2	1.1	24	2.1	15.5	40.4	19.4
M90-145063	32.5	15	1.3	1.2	25	2.1	14.3	40.4	18.7
M90-147022	36.3	5	1.7	1.3	29	2.2	15.4	39.6	20.1
M92-405	35.4	6	6.3	1.0	27	1.8	15.4	41.1	20.2
ND91-2721	36.5	3	1.5	1.1	26	1.9	16.0	40.4	19.5
ND91-2735	35.2	7	0.3	1.2	25	2.2	14.2	40.2	19.6
ND (M) 90-129057	29.9	21	3.2	1.1	27	2.1	14.6	40.2	20.4
ND (M) 90-145029	34.3	8	1.8	1.1	27	2.0	15.7	40.1	19.9
ND (M) 90-147043	34.2	9	-0.5	1.0	25	2.2	15.4	39.7	19.5
ND (M) 90-147063	31.3	19	-0.3	1.0	24	1.7	14.1	38.5	20.3
ND (M) 90-148031	32.4	16	0.3	1.1	24	1.8	14.5	39.0	20.4
ND (M) 90-148037	31.7	17	0.3	1.0	24	2.3	15.4	39.6	19.7
ND (M) 90-148074	29.1	22	-0.7	1.0	22	2.0	13.9	38.6	20.7

104.2 Days After Planting

UNIFORM TEST 00, 1997

1996-1997 2-YEAR MEAN

No. of Tests Strain	Yield	Rank	Maturity	Lodging	Plant Height	Seed Quality	Seed Size	<u>Composition</u>	
	11 bu/a	11 No.	11 Date	11 Score	11 In.	11 Score	11 g/100	7 %	7 %
Agassiz (0)	38.6	3	7.8	1.2	30	1.8	14.4	41.9	20.5
Glacier	35.9	5	4.3	1.6	28	2.2	16.2	42.0	19.7
Maple Ridge	35.1	6	-4.2	1.0	25	2.3	16.0	42.1	19.8
McCall (00)	34.9	7	9/9.5	1.2	27	2.1	15.4	40.9	20.1
M92-405	38.4	4	4.9	1.0	29	1.7	15.9	42.0	20.6
ND91-2721	41.8	1	1.4	1.4	28	1.9	17.1	41.4	19.8
ND91-2735	40.2	2	-0.2	1.4	27	2.1	15.5	41.6	19.9

104.5 Days After Planting

1995-1997 3-YEAR MEAN

No. of Tests Strain	16	16	16	16	16	16	16	12	12
Agassiz (0)	40.6	3	7.2	1.2	30	1.9	14.5	41.9	20.5
Maple Ridge	35.9	5	-4.2	1.1	26	2.3	15.9	41.9	19.8
McCall (00)	36.4	4	9/8.7	1.2	28	2.2	15.4	40.9	20.1
ND91-2721	43.4	1	1.4	1.4	29	1.9	17.3	41.1	19.8
ND91-2735	41.9	2	0.0	1.3	28	2.0	15.8	41.5	20.0

104.9 Days After Planting

UNIFORM TEST 00, 1997

YIELD (bu/a)

Strain	Mean 6 Tests	Crook- ston MN	Moor- head MN	Shelly MN	Cassel- ton ND	Elora Ont.	Ottawa Ont.
Agassiz (0)	37.3	40.8	40.8	34.3	38.3	39.9	29.4
Glacier	33.2	33.6	33.1	26.3	42.1	38.5	25.8
Maple Ridge	33.2	32.4	24.0	38.1	39.2	39.3	26.4
McCall (00)	30.9	31.7	24.1	33.4	34.3	36.4	25.7
Traill	36.5	39.2	32.5	30.4	48.9	40.0	27.9
M90-137050	37.8	37.6	45.7	27.3	45.5	44.3	26.1
M90-139058	31.6	30.2	24.9	33.7	36.6	39.5	24.6
M90-144076	33.9	27.2	38.8	39.0	31.4	39.7	27.3
M90-144096	34.1	29.5	27.0	41.6	38.0	37.5	30.8
M90-144099	33.8	33.1	26.7	36.4	36.3	42.2	27.9
M90-145063	32.5	34.1	27.3	28.4	39.6	38.7	26.7
M90-147022	36.3	39.7	30.5	34.5	43.5	42.5	27.1
M92-405	35.4	39.7	35.0	28.3	40.9	41.1	27.3
ND91-2721	36.5	39.4	27.6	36.7	46.0	42.0	27.5
ND91-2735	35.2	34.5	33.8	36.3	42.3	39.4	24.9
ND (M) 90-129057	29.9	34.2	23.3	30.8	28.9	34.4	27.7
ND (M) 90-145029	34.3	32.9	31.2	33.8	40.5	38.9	28.3
ND (M) 90-147043	34.2	36.1	24.3	37.8	38.3	39.7	29.0
ND (M) 90-147063	31.3	28.2	25.4	40.9	31.3	36.0	25.8
ND (M) 90-148031	32.4	32.0	24.2	39.2	34.6	38.6	25.7
ND (M) 90-148037	31.7	30.2	19.0	38.8	40.3	36.6	25.1
ND (M) 90-148074	29.1	28.9	18.4	38.7	30.4	34.9	23.2
C.V. (%)		7.4	14.5	11.7	13.5	5.0	8.3
L.S.D. (5%)		4.1	6.9	6.8	8.3	2.7	2.8
Row Sp. (in.)		12	10	10	30	14.8	16
Rows/Plot		8	8	8	4	4	4
Reps		3	3	3	3	4	4

UNIFORM TEST 00, 1997

YIELD RANK

Strain	Yield Rank	Crook- ston MN	Moor- head MN	Shelly MN	Cassel- ton ND	Elora Ont.	Ottawa Ont.
Agassiz (0)	2	1	1	13	12	7	2
Glacier	13	11	6	22	6	16	15
Maple Ridge	13	14	19	7	11	12	13
McCall (00)	20	16	18	16	18	19	17
Traill	3	5	7	18	1	6	5
M90-137050	1	6	2	21	3	1	14
M90-139058	18	17	15	15	15	10	21
M90-144076	11	22	3	4	19	8	9
M90-144096	10	19	12	1	14	17	1
M90-144099	12	12	13	10	16	3	6
M90-145063	15	10	11	19	10	14	12
M90-147022	5	2	9	12	4	2	11
M92-405	6	2	4	20	7	5	10
ND91-2721	3	4	10	9	2	4	8
ND91-2735	7	8	5	11	5	11	20
ND (M) 90-129057	21	9	20	17	22	22	7
ND (M) 90-145029	8	13	8	14	8	13	4
ND (M) 90-147043	9	7	16	8	12	8	3
ND (M) 90-147063	19	21	14	2	20	20	16
ND (M) 90-148031	16	15	17	3	17	15	18
ND (M) 90-148037	17	17	21	5	9	18	19
ND (M) 90-148074	22	20	22	6	21	21	22

UNIFORM TEST 00, 1997

MATURITY (date)

Strain	Mean 6 Tests	Crook- ston MN	Moor- head MN	Shelly MN	Cassel- ton ND	Elora Ont.	Ottawa Ont.
Agassiz (0)	7.7	6	7	9	8	4	12
Glacier	3.2	5	5	7	1	1	0
Maple Ridge	-3.7	-4	-3	-3	-6	-4	-2
McCall (00)	9/7	09/01	09/11	09/14	09/03	09/11	09/03
Traill	6.5	8	8	6	9	4	4
M90-137050	4.2	7	4	3	3	2	6
M90-139058	-0.5	0	-1	1	-2	-1	0
M90-144076	-0.8	-2	-2	-1	-1	-2	3
M90-144096	-2.3	-4	-2	1	-5	-4	0
M90-144099	-1.2	-2	0	1	-3	-3	0
M90-145063	1.3	-1	2	5	0	-1	3
M90-147022	1.7	2	2	3	1	2	0
M92-405	6.3	7	6	8	7	3	7
ND91-2721	1.5	2	1	4	0	1	1
ND91-2735	0.3	0	0	3	-1	0	0
ND (M) 90-129057	3.2	1	3	8	3	0	4
ND (M) 90-145029	1.8	1	0	3	2	2	3
ND (M) 90-147043	-0.5	2	-1	0	-3	0	-1
ND (M) 90-147063	-0.3	2	-1	1	-2	-1	-1
ND (M) 90-148031	0.3	0	-1	1	0	2	0
ND (M) 90-148037	0.3	1	-1	-1	0	2	1
ND (M) 90-148074	-0.7	-2	-1	0	-1	1	-1
Date Planted	05/26	05/17	06/05	06/05	05/17	05/27	05/23
Days to Mature	104.2	107	98	101	109	107	103

UNIFORM TEST 00, 1997

LODGING (score)

Strain	Mean 6 Tests	Crook- ston MN	Moor- head MN	Shelly MN	Cassel- ton ND	Elora Ont.	Ottawa Ont.
Agassiz (0)	1.2	1.0	2.0	1.0	1.0	1.0	1.0
Glacier	1.2	1.0	2.0	1.0	1.0	1.0	1.0
Maple Ridge	1.0	1.0	1.0	1.0	1.0	1.0	1.0
McCall (00)	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Traill	1.2	1.0	2.0	1.3	1.0	1.0	1.0
M90-137050	1.0	1.0	1.0	1.0	1.0	1.0	1.0
M90-139058	1.0	1.0	1.0	1.0	1.0	1.1	1.1
M90-144076	1.1	1.0	1.0	1.0	1.0	1.3	1.1
M90-144096	1.1	1.0	1.0	1.0	1.0	1.0	1.4
M90-144099	1.1	1.0	1.0	1.3	1.0	1.0	1.0
M90-145063	1.2	1.0	1.0	1.7	1.0	1.1	1.1
M90-147022	1.3	1.0	2.0	1.3	1.0	1.3	1.0
M92-405	1.0	1.0	1.0	1.0	1.0	1.0	1.0
ND91-2721	1.1	1.0	1.0	1.7	1.0	1.0	1.1
ND91-2735	1.2	1.0	1.0	1.7	1.0	1.0	1.2
ND (M) 90-129057	1.1	1.0	1.0	1.3	1.0	1.0	1.0
ND (M) 90-145029	1.1	1.0	1.0	1.7	1.0	1.1	1.0
ND (M) 90-147043	1.0	1.0	1.0	1.0	1.0	1.0	1.0
ND (M) 90-147063	1.0	1.0	1.0	1.0	1.0	1.0	1.0
ND (M) 90-148031	1.1	1.0	1.0	1.3	1.0	1.0	1.0
ND (M) 90-148037	1.0	1.0	1.0	1.0	1.0	1.0	1.1
ND (M) 90-148074	1.0	1.0	1.0	1.0	1.0	1.0	1.0

UNIFORM TEST 00, 1997

PLANT HEIGHT (inches)

Strain	Mean 6 Tests	Crook- ston MN	Moor- head MN	Shelly MN	Cassel- ton ND	Elora Ont.	Ottawa Ont.
Agassiz (0)	28	30	25	34	29	27	24
Glacier	26	27	27	29	26	25	22
Maple Ridge	25	28	21	27	24	27	23
McCall (00)	25	27	19	25	24	28	24
Traill	26	26	20	30	28	26	23
M90-137050	25	25	19	27	24	30	23
M90-139058	27	26	20	31	26	33	23
M90-144076	26	28	20	26	25	30	25
M90-144096	25	27	19	28	25	25	27
M90-144099	24	28	15	29	23	26	23
M90-145063	25	25	18	29	27	28	25
M90-147022	29	26	20	34	31	33	28
M92-405	27	31	23	30	29	27	24
ND91-2721	26	27	19	30	28	28	23
ND91-2735	25	24	18	29	26	27	23
ND (M) 90-129057	27	27	23	32	24	27	26
ND (M) 90-145029	27	25	22	31	28	31	25
ND (M) 90-147043	25	23	20	29	24	28	25
ND (M) 90-147063	24	24	18	28	22	28	23
ND (M) 90-148031	24	25	17	26	23	28	22
ND (M) 90-148037	24	22	19	27	24	28	23
ND (M) 90-148074	22	22	16	25	25	25	21

UNIFORM TEST 00, 1997

SEED QUALITY (score)

Strain	Mean 6 Tests	Crook- ston MN	Moor- head MN	Shelly MN	Cassel- ton ND	Elora Ont.	Ottawa Ont.
Agassiz (0)	1.9	1.3	1.3	2.3	1.0	2.0	3.3
Glacier	2.2	2.0	1.7	3.3	1.0	2.0	3.3
Maple Ridge	2.4	3.7	2.0	2.3	1.3	1.5	3.8
McCall (00)	2.2	2.7	1.3	2.5	1.3	2.0	3.3
Traill	2.1	2.0	1.3	2.3	1.0	2.5	3.3
M90-137050	1.9	2.3	1.3	2.0	1.0	1.5	3.3
M90-139058	2.5	3.3	2.0	3.0	1.3	2.0	3.5
M90-144076	2.2	2.0	1.7	2.3	1.7	2.0	3.3
M90-144096	2.0	2.0	1.7	1.7	2.0	1.5	3.3
M90-144099	2.1	2.7	2.0	2.3	1.0	1.5	3.3
M90-145063	2.1	1.3	2.0	2.7	1.0	1.5	4.3
M90-147022	2.2	2.3	2.3	2.7	1.0	1.5	3.3
M92-405	1.8	1.7	1.7	2.3	1.0	1.5	2.8
ND91-2721	1.9	1.3	1.3	2.0	1.0	3.0	2.5
ND91-2735	2.2	1.7	1.3	3.7	1.0	2.0	3.3
ND (M) 90-129057	2.1	1.7	2.7	2.3	1.0	1.5	3.3
ND (M) 90-145029	2.0	1.3	2.7	1.7	1.0	2.0	3.3
ND (M) 90-147043	2.2	3.3	2.3	2.3	1.0	1.5	3.0
ND (M) 90-147063	1.7	1.3	2.3	1.3	1.0	1.5	3.0
ND (M) 90-148031	1.8	1.7	2.3	1.7	1.0	1.5	2.8
ND (M) 90-148037	2.3	2.0	2.7	1.7	1.3	2.0	3.8
ND (M) 90-148074	2.0	1.3	3.3	1.3	1.3	2.0	3.0

UNIFORM TEST 00, 1997

SEED SIZE (g/100)

Strain	Mean 6 Tests	Crook- ston MN	Moor- head MN	Shelly MN	Cassel- ton ND	Elora Ont.	Ottawa Ont.
Agassiz (0)	14.4	15.7	12.7	14.6	16.3	13.4	13.8
Glacier	15.3	13.6	14.8	15.4	16.5	16.4	15.1
Maple Ridge	15.4	14.0	14.5	17.0	16.7	15.9	14.1
McCall (00)	15.2	14.1	13.3	15.5	17.5	16.1	14.4
Traill	16.7	17.0	15.0	16.1	18.6	17.4	16.0
M90-137050	16.4	15.5	15.4	15.7	17.5	17.6	16.5
M90-139058	15.3	15.2	14.1	15.9	16.3	15.4	14.6
M90-144076	15.1	14.3	13.6	15.9	16.1	15.8	14.9
M90-144096	16.5	15.0	15.5	17.7	18.6	16.0	16.0
M90-144099	15.5	14.4	14.6	16.9	16.6	16.8	13.9
M90-145063	14.3	13.2	13.1	15.3	17.0	14.5	12.9
M90-147022	15.4	15.4	13.7	15.6	17.5	15.2	15.2
M92-405	15.4	15.1	14.5	14.2	18.3	15.3	14.7
ND91-2721	16.0	17.2	14.4	16.8	18.3	15.2	14.1
ND91-2735	14.2	14.1	13.7	14.3	16.3	14.4	12.5
ND (M) 90-129057	14.6	13.5	14.1	14.0	16.5	15.1	14.2
ND (M) 90-145029	15.7	14.8	14.8	15.9	17.0	16.9	15.0
ND (M) 90-147043	15.4	15.9	14.4	15.3	17.7	15.1	13.8
ND (M) 90-147063	14.1	14.6	13.0	14.2	16.6	13.9	12.2
ND (M) 90-148031	14.5	14.0	12.7	14.2	17.7	14.6	13.7
ND (M) 90-148037	15.4	15.2	14.6	14.8	18.3	15.7	13.6
ND (M) 90-148074	13.9	12.7	13.8	14.1	16.2	14.1	12.3

UNIFORM TEST 00, 1997

PROTEIN (%)

Strain	Mean 4 Tests	Crookston MN	Moorhead MN	Casselton ND	Ottawa Ont.
Agassiz (0)	40.7	40.1	39.0	42.0	41.7
Glacier	40.8	39.3	40.2	41.4	42.3
Maple Ridge	40.5	39.4	39.2	41.0	42.2
McCall (00)	39.2	37.9	38.7	40.2	39.8
Traill	41.7	41.9	40.5	43.0	41.4
M90-137050	41.4	40.7	40.3	42.7	41.8
M90-139058	40.3	39.1	39.9	41.3	40.9
M90-144076	40.1	39.3	39.3	39.5	42.1
M90-144096	41.9	40.7	40.8	42.7	43.4
M90-144099	40.4	39.3	39.9	40.9	41.5
M90-145063	40.4	39.8	38.3	42.1	41.5
M90-147022	39.6	39.4	38.5	39.9	40.6
M92-405	41.1	41.5	39.8	42.1	41.0
ND91-2721	40.4	39.6	38.1	42.0	41.7
ND91-2735	40.2	39.3	38.6	40.4	42.5
ND (M) 90-129057	40.2	40.4	37.8	41.1	41.4
ND (M) 90-145029	40.1	39.5	40.0	40.7	40.0
ND (M) 90-147043	39.7	38.2	39.1	40.8	40.5
ND (M) 90-147063	38.5	37.7	38.0	39.0	39.3
ND (M) 90-148031	39.0	37.5	38.8	40.4	39.3
ND (M) 90-148037	39.6	38.5	38.7	40.6	40.4
ND (M) 90-148074	38.6	37.5	38.2	40.1	38.7

UNIFORM TEST 00, 1997

OIL (%)

Strain	Mean 4 Tests	Crookston MN	Moorhead MN	Casselton ND	Ottawa Ont.
Agassiz (0)	20.3	19.9	19.9	20.2	21.2
Glacier	19.3	18.7	18.2	19.8	20.4
Maple Ridge	19.5	18.6	19.3	19.6	20.5
McCall (00)	20.1	19.6	19.6	19.6	21.4
Traill	18.9	18.1	17.7	18.7	21.1
M90-137050	19.1	18.7	18.4	18.9	20.3
M90-139058	20.9	20.2	20.4	20.9	22.2
M90-144076	19.4	19.1	18.3	20.1	20.2
M90-144096	19.0	18.9	18.4	18.8	19.9
M90-144099	19.4	19.2	18.4	19.4	20.5
M90-145063	18.7	18.3	18.2	18.4	20.0
M90-147022	20.1	19.8	19.7	19.7	21.2
M92-405	20.2	20.2	19.4	19.6	21.6
ND91-2721	19.5	18.9	19.2	19.3	20.4
ND91-2735	19.6	19.1	18.9	19.9	20.3
ND (M) 90-129057	20.4	19.6	19.8	20.8	21.5
ND (M) 90-145029	19.9	19.5	18.5	19.9	21.7
ND (M) 90-147043	19.5	18.6	18.9	19.3	21.1
ND (M) 90-147063	20.3	19.7	20.0	20.4	21.0
ND (M) 90-148031	20.4	19.6	20.0	20.3	21.8
ND (M) 90-148037	19.7	19.4	19.2	19.0	21.0
ND (M) 90-148074	20.7	20.3	20.2	20.1	22.2

Uniform Test 0, 1997

Strain	Parentage	Previous Testing	Generation Compositod	Unique Traits
1. Agassiz (E)	Simpson x M71-148	5	F5	Rps1
2. Lambert (0)	M75-274 x M76-151	9	F5	Rps1
3. Parker (I)	A79-136012 x Dawson	6	F5	Rps1
4. Traill	M82-996 x Sigco KG20	2	F5	
5. M90-128078	Maple Belle x Agassiz	-	F5	Rps1
6. M90-135046	Ozzie x OT88-11	-	F5	Rps1
7. M90-162034	Burlison x M84-93	-	F5	Rps1-c, Rps3?
8. M90-178096	M85-23 x A20	-	F5	Rps1, SCN, BSR
9. M90-217007	M84-93 x Archer	-	F5	Rps1-k, BSR
10. M90-239130	M85-122 x Lambert	-	F5	Rps1
11. M90-249101	M86-2337 x M86-918	-	F5	Rps1
12. M91-821	M83-766 x Leslie	2	F5	Rps1
13. M91-103023	Dawson x (Dawson x Bell)	-	F4	Rps1, SCN
14. M91-112019	Maple Belle x (Dawson x Bell)	-	F4	Rps1, SCN
15. M92-407	Agassiz x Ozzie	1	F4	Rps1
16. M92-542	M84-855 x Bert	1	F4	Rps1
17. M92-590	Pioneer 9061 x Ozzie	1	F5	Rps1
18. M92-597	Pioneer 9061 x Ozzie	1	F5	Rps1
19. M92-674	Agassiz x Ozzie	1	F4	Rps1
20. M92-1571	Jack x Alpha	-	F5	SCN
21. ND92-1111	Ozzie x Proto	1	F5	Tofu
22. ND93-5936	M83-899 x Pioneer 9061	-	F4	
23. ND93-5949	M83-899 x Pioneer 9061	-	F4	
24. ND93-6039	Agassiz x Pioneer 9061	-	F4	Rps1-a
25. ND93-6064	Agassiz x Pioneer 9061	-	F4	Rps1-a
26. ND93-6072	Agassiz x Pioneer 9061	-	F4	Rps1-a
27. ND93-6074	Agassiz x Pioneer 9061	-	F4	Rps1-a
28. ND93-6078	Agassiz x Pioneer 9061	-	F4	Rps1-a
29. ND93-6247	Pioneer 9061 x Evans	-	F4	Rps1-a
30. ND93-6278	Pioneer 9061 x Evans	-	F4	Rps1-a
31. ND(M)90-128010	Maple Belle x Agassiz	-	F5	
32. ND(M)90-138016	OT87-7 x M84-93	-	F5	
33. ND(M)91-895	M81-27 x M85-52	1	F5	
34. ND(M)92-384		-	F5	
35. ND(SD)92-2381	M83-64 x Pioneer 9091	-	F5	Rps1-k
36. SD94-186	Sibley x Archer	-	F5	BSR
37. SD94-667	Kato x Glenwood	-	F5	
38. SD94-751	Hardin x Hodgson 78	-	F5	
39. SD94-817	Glenwood x Sibley	-	F5	
40. SD94-996	Parker x Sibley	-	F5	
41. SD94-1590	Archer x Bert	-	F5	BSR
42. SD(ND)94-9218	Lambert x Pioneer 9061	-	F5	
43. SD(ND)94-9231	Lambert x Pioneer 9061	-	F5	

UNIFORM TEST 0, 1997

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	Emergence	Shattering	Chlorosis	SCL	Lafayette Race 7
		Score Ames	Score Manhattan	Score Ames	%	
Agassiz (E)	PGBrDYBfEpI	1.0	3.0	1.8	23.8	S
Lambert (O)	PGBrSYBfepI	3.0	3.0	1.8	27.5	S
Parker (I)	WGBrDYBfEpI	5.0	2.0	2.3	37.5	S
Traill	PTBrSYEpI	2.0	2.0	1.3	2.8	S
M90-128078	PGBrDYGrEpI	1.0	3.0	2.1	2.3	S
M90-135046	PTBrSYEpI	4.0	2.0	1.8	2.2	S
M90-162034	WGTnSYBrEpI	2.0	2.0	2.6	7.8	R
M90-178096	WGBrSYIbepI	2.0	2.0	2.3	9.0	S
M90-217007	PGTnDYBfHI	1.0	2.0	1.8	1.5	R
M90-239130	PGBrDYEpI	2.0	2.0	2.0	12.2	S
M90-249101	PGBrDYEpI	1.0	2.0	2.0	15.3	S
M91-821	WGBrIYYEpI	3.0	2.0	3.7	45.8	S
M91-103023	PG+TBrDYYHI	2.0	2.0	1.7	66.5	S
M91-112019	P+WGBrDYEpI	4.0	2.0	2.2	19.8	S
M92-407	PGBrDYBfEpI	4.0	2.0	1.8	2.8	S
M92-542	P+WGBRDYYEpI	5.0	2.0	2.3	21.7	S
M92-590	PGBrDYEpI	5.0	2.0	1.8	7.2	S
M92-597	PGBrIYYEpI	4.0	2.0	2.0	7.8	S
M92-674	PGBrDYBfEpI	3.0	2.0	1.6	2.8	S
M92-1571	WTTnSYEpI	5.0	2.0	2.2	4.0	H
ND92-1111	PGBrSYEpI	3.0	2.0	1.7	23.2	S
ND93-5936	PGBrDYHEpI	4.0	2.0	2.6	9.0	S
ND93-5949	PGBrDYEpI	4.0	2.0	3.6	24.3	S
ND93-6039	PGBrDYHEpI	2.0	2.0	2.3	5.3	S
ND93-6064	PGBrDYBfEpI	1.0	2.0	2.2	7.2	S
ND93-6072	PGBrDYBfEpI	1.0	2.0	3.2	12.8	S
ND93-6074	PGBrDYEpI	2.0	2.0	2.2	6.5	S
ND93-6078	P+WGBrDYEpI	1.0	--	3.6	10.3	S
ND93-6247	P+WGBrDYEpI	1.0	3.0	1.8	6.5	S
ND93-6278	WGBrDYEpI	1.0	2.0	2.5	18.5	S
ND (M) 90-128010	P+WGBrDYEpI	2.0	2.0	2.7	1.0	S
ND (M) 90-138016	P+WG+TBrSYBrEpI	2.0	2.0	2.8	2.2	S
ND (M) 91-895	PGBrDYBfepI	2.0	2.0	2.5	16.0	S
ND (M) 92-384	PGBrDYBfEpI	5.0	2.0	2.3	3.5	S
ND (SD) 92-2381	PGBrDYEpI	3.0	3.0	2.2	21.7	R
SD94-186	PGTnDYGrepI	2.0	3.0	2.6	31.2	R
SD94-667	PGBrDYIbEpI	3.0	2.0	2.3	36.3	S
SD94-751	WGBrDYBfepI	3.0	2.0	3.1	15.3	H
SD94-817	P+WGBrDYBfepI	1.0	3.0	2.3	15.3	S
SD94-996	WGBrDYYHI	5.0	3.0	2.7	39.5	S
SD94-1590	PGTnDYIbEpI	2.0	3.0	2.7	14.8	S
SD (ND) 94-9218	PGBrIYHHI	1.0	2.0	2.2	14.2	S
SD (ND) 94-9231	PGBrSYBfepI	3.0	3.0	2.5	19.8	S

UNIFORM TEST 0, 1997

REGIONAL SUMMARY

No. of Tests Strain	Yield	Rank	Maturity	Lodging	Plant Height	Seed Quality	Seed Size	Composition	
	8 bu/a	8 No.	8 Date	8 Score	8 In.	7 Score	7 g/100	5 %	5 %
Agassiz (E)	34.5	42	-6.6	1.3	27	1.9	14.7	40.8	19.9
Lambert (O)	40.6	20	9/15	1.4	28	1.9	16.6	40.2	20.3
Parker (I)	46.1	1	9.1	2.1	34	2.0	18.3	40.6	19.6
Traill	35.5	38	-6.5	1.5	26	1.9	16.7	42.4	18.9
M90-128078	36.3	36	-2.3	1.5	27	2.1	17.4	41.5	19.2
M90-135046	38.2	33	-3.5	1.4	30	2.3	14.6	42.4	18.6
M90-162034	41.7	16	3.3	1.3	29	1.6	18.0	41.3	19.1
M90-178096	37.3	35	-1.4	1.5	31	1.7	14.6	39.4	19.3
M90-217007	40.2	22	-2.6	1.3	30	1.7	15.3	40.0	20.4
M90-239130	42.9	8	2.5	1.2	29	1.5	17.9	40.8	19.7
M90-249101	39.8	27	-3.1	1.5	27	1.9	15.6	40.0	19.9
M91-821	43.7	4	2.8	1.4	31	1.8	16.8	39.2	20.6
M91-103023	35.6	37	-3.8	2.1	28	2.0	16.0	39.4	19.8
M91-112019	38.4	30	-1.3	1.6	31	1.8	18.1	39.3	20.0
M92-407	39.0	29	-2.1	1.3	29	1.8	15.2	40.1	19.9
M92-542	43.2	6	3.1	1.4	31	2.0	18.9	40.6	19.7
M92-590	42.3	11	2.6	1.5	30	1.6	16.7	40.6	19.9
M92-597	43.1	7	3.0	1.6	31	1.5	16.6	41.4	19.0
M92-674	40.0	25	-1.8	1.4	32	1.9	14.5	41.0	19.4
M92-1571	41.5	17	1.6	1.3	29	1.9	14.7	41.5	19.5
ND92-1111	35.1	39	-4.9	1.4	27	1.9	17.2	41.2	19.0
ND93-5936	44.7	2	3.5	1.8	32	2.4	16.9	39.2	20.2
ND93-5949	39.9	26	1.8	1.4	28	1.8	14.5	39.3	20.5
ND93-6039	38.1	34	-1.3	1.2	27	2.2	15.6	39.5	20.4
ND93-6064	38.4	30	-1.6	1.2	27	2.2	16.0	40.0	20.1
ND93-6072	39.6	28	1.4	1.5	31	2.1	16.2	39.5	20.5
ND93-6074	40.3	21	-1.1	1.4	29	1.9	15.2	38.9	20.4
ND93-6078	40.2	22	-1.4	1.4	30	1.9	15.7	39.0	20.3
ND93-6247	40.1	24	-1.0	1.4	30	2.1	16.1	39.5	20.3
ND93-6278	41.1	18	-0.4	1.7	31	1.9	16.9	39.5	20.1
ND (M) 90-1280	33.9	43	-3.4	1.2	25	2.2	17.5	40.5	20.1
ND (M) 90-1380	34.8	41	-3.5	1.4	29	2.2	15.4	37.7	20.0
ND (M) 91-895	38.4	30	-0.6	1.6	29	2.0	17.1	39.4	20.3
ND (M) 92-384	34.9	40	-2.6	1.4	27	1.9	16.3	40.0	20.0
ND (SD) 92-238	42.6	9	5.3	1.7	30	2.0	15.9	39.6	20.4
SD94-186	40.9	19	6.4	1.7	34	2.0	17.0	40.8	19.6
SD94-667	42.2	12	5.5	1.8	30	2.3	19.8	41.3	19.0
SD94-751	43.5	5	7.1	1.7	28	1.7	18.0	41.2	19.5
SD94-817	41.8	15	4.6	1.8	32	1.7	18.3	40.7	19.4
SD94-996	42.5	10	5.0	1.8	36	1.8	18.1	40.4	19.4
SD94-1590	44.1	3	6.4	1.6	32	2.1	17.3	40.5	19.2
SD (ND) 94-921	42.1	13	0.3	1.4	28	2.0	16.0	39.0	20.6
SD (ND) 94-923	42.0	14	0.6	1.5	29	1.9	16.6	40.1	19.9

124.4 Days After Planting

UNIFORM TEST 0, 1997

1996-1997 2-YEAR MEAN

No. of Tests Strain	Yield	Rank	Maturity	Lodging	Plant Height	Seed Quality	Seed Size	<u>Composition</u>	
	16 bu/a	16 No.	15 Date	16 Score	16 In.	15 Score	15 g/100	Protein 10 %	Oil 10 %
Agassiz (E)	37.3	11	-7.1	1.4	29	1.9	14.6	42.2	20.3
Lambert (O)	43.9	6	9/18.5	1.5	30	1.9	16.5	41.9	20.8
Parker (I)	47.1	1	8.1	2.4	36	2.0	17.7	41.5	20.2
M91-821	44.4	4	2.6	1.6	32	1.7	16.4	40.7	21.1
M92-407	41.1	9	-2.8	1.3	30	1.7	15.0	41.6	20.4
M92-542	44.9	3	2.7	1.6	33	1.8	19.0	41.5	20.3
M92-590	44.3	5	2.3	1.7	32	1.6	16.4	41.7	20.5
M92-597	45.0	2	2.8	1.8	33	1.6	16.4	43.3	19.6
M92-674	42.1	8	-2.6	1.4	33	1.8	14.2	42.4	20.0
ND92-1111	37.9	10	-4.5	1.5	29	1.8	17.7	43.8	18.9
ND(M) 91-895	42.5	7	-1.7	1.7	31	2.0	16.8	40.9	20.5

122.0 Days After Planting

UNIFORM TEST 0, 1997

Strain	YIELD (bu/a)				
	Mean 8 Tests	Morris MN	Rose- mount MN	Cassel- ton ND	Ottawa Ont.
Agassiz (E)	34.5	44.4	38.0	35.2	26.4
Lambert (O)	40.6	45.2	37.7	43.9	34.7
Parker (I)	46.1	61.2	43.0	47.6	41.0
Traill	35.5	44.1	32.6	43.0	26.9
M90-128078	36.3	46.3	35.7	44.9	29.1
M90-135046	38.2	51.0	41.3	43.4	28.2
M90-162034	41.7	51.8	45.9	48.2	35.4
M90-178096	37.3	50.7	37.5	41.7	29.2
M90-217007	40.2	52.2	44.3	43.7	32.2
M90-239130	42.9	50.9	43.6	48.2	37.0
M90-249101	39.8	50.9	41.6	45.4	29.7
M91-821	43.7	53.5	50.5	48.5	31.3
M91-103023	35.6	44.0	31.3	44.3	28.3
M91-112019	38.4	48.4	37.1	39.3	32.9
M92-407	39.0	47.3	39.7	42.4	30.6
M92-542	43.2	54.4	48.6	44.2	35.5
M92-590	42.3	52.7	48.7	41.2	37.1
M92-597	43.1	57.5	44.3	47.3	33.6
M92-674	40.0	54.3	42.9	43.0	32.2
M92-1571	41.5	53.2	49.4	40.5	34.0
ND92-1111	35.1	41.8	40.2	41.4	28.9
ND93-5936	44.7	59.8	47.7	55.5	37.3
ND93-5949	39.9	53.7	46.2	41.1	36.7
ND93-6039	38.1	52.8	43.2	47.7	29.9
ND93-6064	38.4	46.5	39.7	47.2	28.9
ND93-6072	39.6	50.4	38.2	42.0	32.8
ND93-6074	40.3	48.8	46.4	52.2	29.2
ND93-6078	40.2	50.0	44.1	47.3	32.5
ND93-6247	40.1	51.0	43.7	46.9	30.7
ND93-6278	41.1	51.1	41.9	46.3	35.0
ND (M) 90-128010	33.9	44.7	38.8	41.2	27.0
ND (M) 90-138016	34.8	48.0	38.2	43.3	27.2
ND (M) 91-895	38.4	53.0	41.5	43.9	35.4
ND (M) 92-384	34.9	49.4	40.0	44.1	29.3
ND (SD) 92-2381	42.6	56.6	40.5	50.1	34.4
SD94-186	40.9	52.7	44.9	43.2	35.7
SD94-667	42.2	55.7	41.3	46.3	32.1
SD94-751	43.5	55.9	44.4	46.9	36.5
SD94-817	41.8	49.2	43.3	45.5	33.8
SD94-996	42.5	53.9	40.7	46.0	37.3
SD94-1590	44.1	58.0	49.2	51.4	31.4
SD (ND) 94-9218	42.1	54.2	42.9	47.1	31.0
SD (ND) 94-9231	42.0	56.7	45.2	43.7	34.4
C.V. (%)		7.2	7.3	9.3	7.2
L.S.D. (5%)		6.1	5.1	6.7	2.9
Row Sp. (In.)		10	10	30	16
Rows/Plot		10	10	4	4
Reps		3	3	3	4

UNIFORM TEST 0, 1997

YIELD (bu/a)

Strain	Woodstock Ont.	Brookings SD	Watertown SD	Arlington WI
Agassiz (E)	30.0	28.7	30.6	42.9
Lambert (O)	44.7	30.3	40.7	47.6
Parker (I)	47.2	38.2	44.7	45.5
Traill	38.0	25.0	34.9	39.6
M90-128078	38.0	23.7	34.5	38.4
M90-135046	38.1	31.0	33.1	39.8
M90-162034	40.0	27.6	36.6	48.2
M90-178096	38.0	29.0	36.3	36.3
M90-217007	37.6	28.9	37.8	45.0
M90-239130	51.1	33.6	39.3	39.2
M90-249101	40.5	24.0	39.3	46.8
M91-821	50.0	33.1	42.3	40.6
M91-103023	37.2	28.1	32.8	38.7
M91-112019	37.4	30.4	37.5	44.0
M92-407	36.2	35.4	36.6	43.9
M92-542	41.9	31.9	44.7	44.5
M92-590	41.2	33.1	43.5	40.8
M92-597	44.1	32.3	43.5	41.9
M92-674	39.3	28.8	37.1	42.4
M92-1571	40.9	31.7	35.5	47.1
ND92-1111	31.9	26.2	31.7	38.8
ND93-5936	39.9	36.0	37.4	44.0
ND93-5949	31.1	30.2	38.3	42.2
ND93-6039	31.6	24.6	32.1	43.1
ND93-6064	35.4	25.2	38.9	45.1
ND93-6072	38.5	31.2	38.0	45.6
ND93-6074	36.4	29.7	37.4	42.0
ND93-6078	31.4	29.8	42.6	43.8
ND93-6247	34.9	32.0	42.4	39.4
ND93-6278	41.9	28.4	41.5	42.6
ND (M) 90-128010	27.4	20.8	31.9	39.0
ND (M) 90-138016	28.4	23.5	32.9	36.8
ND (M) 91-895	34.2	22.8	40.2	36.1
ND (M) 92-384	20.8	25.7	32.2	37.7
ND (SD) 92-2381	42.7	32.0	40.8	43.4
SD94-186	43.5	29.8	34.5	43.0
SD94-667	40.1	36.4	39.9	45.7
SD94-751	43.4	29.2	42.2	49.2
SD94-817	43.8	31.1	40.9	46.8
SD94-996	45.0	35.6	41.4	40.4
SD94-1590	42.9	31.9	38.1	49.7
SD (ND) 94-9218	39.5	30.5	44.5	46.7
SD (ND) 94-9231	40.7	28.2	40.2	47.2
C.V. (%)	8.7	10.8	10.7	8.1
L.S.D. (5%)	4.7	5.2	6.6	5.7
Row Sp. (In.)	14.8	30	30	7.5
Rows/Plot	4	4	4	11
Reps	4	3	3	3

UNIFORM TEST 0, 1997

YIELD RANK

Strain	Yield Rank	Morris MN	Rose-mount MN	Cassel-ton ND	Ottawa Ont.
Agassiz (E)	42	40	37	43	43
Lambert (O)	20	38	38	25	13
Parker (I)	1	1	20	9	1
Traill	38	41	42	32	42
M90-128078	36	37	41	21	35
M90-135046	33	23	26	29	39
M90-162034	16	21	9	6	10
M90-178096	35	27	39	36	33
M90-217007	22	20	13	27	22
M90-239130	8	25	17	6	5
M90-249101	27	25	24	20	31
M91-821	4	14	1	5	26
M91-103023	37	42	43	22	38
M91-112019	30	33	40	42	19
M92-407	29	35	32	34	29
M92-542	6	9	5	23	9
M92-590	11	18	4	38	4
M92-597	7	4	13	10	18
M92-674	25	10	21	32	23
M92-1571	17	15	2	41	16
ND92-1111	39	43	30	37	36
ND93-5936	2	2	6	1	2
ND93-5949	26	13	8	40	6
ND93-6039	34	17	19	8	30
ND93-6064	30	36	32	12	37
ND93-6072	28	28	35	35	20
ND93-6074	21	32	7	2	34
ND93-6078	22	29	15	10	21
ND93-6247	24	23	16	14	28
ND93-6278	18	22	23	16	12
ND (M) 90-128010	43	39	34	38	41
ND (M) 90-138016	41	34	35	30	40
ND (M) 91-895	30	16	25	25	11
ND (M) 92-384	40	30	31	24	32
ND (SD) 92-2381	9	6	29	4	14
SD94-186	19	18	11	31	8
SD94-667	12	8	26	16	24
SD94-751	5	7	12	14	7
SD94-817	15	31	18	19	17
SD94-996	10	12	28	18	3
SD94-1590	3	3	3	3	25
SD (ND) 94-9218	13	11	21	13	27
SD (ND) 94-9231	14	5	10	27	15

UNIFORM TEST 0, 1997

YIELD RANK

Strain	Woodstock Ont.	Brookings SD	Watertown SD	Arlington WI
Agassiz (E)	40	29	43	23
Lambert (O)	5	20	14	4
Parker (I)	3	1	1	12
Traill	25	37	33	33
M90-128078	25	40	34	39
M90-135046	24	17	36	32
M90-162034	19	33	30	3
M90-178096	25	26	31	42
M90-217007	28	27	25	14
M90-239130	1	6	18	35
M90-249101	17	39	18	7
M91-821	2	8	8	30
M91-103023	30	32	38	38
M91-112019	29	19	26	16
M92-407	32	5	21	18
M92-542	12	13	1	15
M92-590	14	7	4	29
M92-597	6	9	4	28
M92-674	22	28	29	25
M92-1571	15	14	32	6
ND92-1111	36	34	42	37
ND93-5936	20	3	27	16
ND93-5949	39	21	22	26
ND93-6039	37	38	40	21
ND93-6064	33	36	20	13
ND93-6072	23	15	24	11
ND93-6074	31	24	27	27
ND93-6078	38	22	6	19
ND93-6247	34	11	7	34
ND93-6278	12	30	10	24
ND (M) 90-128010	42	43	41	36
ND (M) 90-138016	41	41	37	41
ND (M) 91-895	35	42	15	43
ND (M) 92-384	43	35	39	40
ND (SD) 92-2381	11	11	13	20
SD94-186	8	23	34	22
SD94-667	18	2	17	10
SD94-751	9	25	9	2
SD94-817	7	16	12	7
SD94-996	4	4	11	31
SD94-1590	10	12	23	1
SD (ND) 94-9218	21	18	3	9
SD (ND) 94-9231	16	31	15	5

UNIFORM TEST 0, 1997

MATURITY (date)

Strain	Mean 8 Tests	Morris MN	Rose- mount MN	Cassel- ton ND	Ottawa Ont.
Agassiz (E)	-6.6	-8	-7	-5	-8
Lambert (O)	9/15	09/18	09/11	09/16	09/20
Parker (I)	9.1	10	12	14	11
Traill	-6.5	-8	-7	-8	-11
M90-128078	-2.3	-3	-6	-3	-3
M90-135046	-3.5	-3	-7	-2	-3
M90-162034	3.3	5	0	5	7
M90-178096	-1.4	-2	-7	-1	1
M90-217007	-2.6	-3	-8	-2	-1
M90-239130	2.5	4	0	4	0
M90-249101	-3.1	-3	-8	-3	-3
M91-821	2.8	5	1	2	0
M91-103023	-3.8	-3	-9	-5	-2
M91-112019	-1.3	-1	-6	-1	-1
M92-407	-2.1	-3	-9	0	-2
M92-542	3.1	4	0	3	1
M92-590	2.6	4	0	6	1
M92-597	3.0	6	-1	5	0
M92-674	-1.8	0	-6	-2	0
M92-1571	1.6	4	-1	3	1
ND92-1111	-4.9	-8	-9	-5	-4
ND93-5936	3.5	4	0	8	2
ND93-5949	1.8	4	-3	4	2
ND93-6039	-1.3	-1	-6	-1	-1
ND93-6064	-1.6	-3	-7	-1	-1
ND93-6072	1.4	1	-4	2	1
ND93-6074	-1.1	-3	-6	1	-2
ND93-6078	-1.4	-3	-6	0	-1
ND93-6247	-1.0	-1	-4	-2	-2
ND93-6278	-0.4	2	-4	2	0
ND (M) 90-128010	-3.4	-3	-8	-4	-3
ND (M) 90-138016	-3.5	-3	-9	-5	-5
ND (M) 91-895	-0.6	0	-6	1	1
ND (M) 92-384	-2.6	-3	-8	-1	-1
ND (SD) 92-2381	5.3	6	1	10	1
SD94-186	6.4	9	3	8	5
SD94-667	5.5	8	3	9	5
SD94-751	7.1	13	5	7	7
SD94-817	4.6	5	0	8	3
SD94-996	5.0	6	4	8	2
SD94-1590	6.4	8	6	3	7
SD (ND) 94-9218	0.3	0	-6	0	0
SD (ND) 94-9231	0.6	2	-4	1	-1
Date Planted	05/14	05/15	04/29	05/17	05/27
Days to Mature	124.4	126	135	122	116

UNIFORM TEST 0, 1997

MATURITY (date)

Strain	Woodstock Ont.	Brookings SD	Watertown SD	Arlington WI
Agassiz (E)	-6	-7	-4	-8
Lambert (O)	09/23	09/08	09/15	09/15
Parker (I)	13	5	3	5
Traill	-3	-5	-4	-6
M90-128078	-5	5	0	-3
M90-135046	-3	-5	-2	-3
M90-162034	5	3	-1	2
M90-178096	2	0	-1	-3
M90-217007	-2	-2	-1	-2
M90-239130	11	1	1	-1
M90-249101	-3	-2	0	-3
M91-821	10	2	1	1
M91-103023	-6	0	-1	-4
M91-112019	-1	1	1	-2
M92-407	-2	0	2	-3
M92-542	11	1	3	2
M92-590	5	1	1	3
M92-597	10	1	4	-1
M92-674	-3	0	0	-3
M92-1571	7	0	0	-1
ND92-1111	-5	-1	-1	-6
ND93-5936	10	1	2	1
ND93-5949	4	1	2	0
ND93-6039	-2	1	2	-2
ND93-6064	-1	1	2	-3
ND93-6072	9	2	2	-2
ND93-6074	2	1	0	-2
ND93-6078	2	0	-1	-2
ND93-6247	1	1	1	-2
ND93-6278	-1	1	-1	-2
ND (M) 90-128010	-4	0	-2	-3
ND (M) 90-138016	-1	0	-2	-3
ND (M) 91-895	3	0	-1	-3
ND (M) 92-384	-4	0	-1	-3
ND (SD) 92-2381	13	5	4	2
SD94-186	15	4	3	4
SD94-667	12	2	3	2
SD94-751	13	4	2	6
SD94-817	13	2	2	4
SD94-996	12	3	3	2
SD94-1590	16	3	1	7
SD (ND) 94-9218	6	1	1	0
SD (ND) 94-9231	3	2	2	0
Date Planted	05/29	05/05	05/14	05/09
Days to Mature	117	126	124	129

UNIFORM TEST 0, 1997

LODGING (score)

Strain	Mean 8 Tests	Morris MN	Rose- mount MN	Cassel- ton ND	Ottawa Ont.
Agassiz (E)	1.3	1.0	1.7	1.0	1.0
Lambert (O)	1.4	1.0	2.0	1.0	1.0
Parker (I)	2.1	1.0	3.3	2.3	1.3
Traill	1.5	1.0	2.0	1.0	1.0
M90-128078	1.5	1.0	2.3	1.0	1.0
M90-135046	1.4	1.0	1.7	1.3	1.1
M90-162034	1.3	1.0	1.7	1.7	1.0
M90-178096	1.5	1.0	3.0	1.0	1.0
M90-217007	1.3	1.0	1.3	1.0	1.0
M90-239130	1.2	1.0	1.3	1.0	1.0
M90-249101	1.5	1.0	2.0	1.3	1.0
M91-821	1.4	1.0	2.0	1.0	1.0
M91-103023	2.1	1.0	4.0	1.3	1.0
M91-112019	1.6	1.0	3.0	1.0	1.0
M92-407	1.3	1.0	2.0	1.3	1.0
M92-542	1.4	1.0	2.7	1.0	1.0
M92-590	1.5	1.0	2.3	1.3	1.0
M92-597	1.6	1.0	2.0	1.7	1.0
M92-674	1.4	1.0	2.0	1.0	1.0
M92-1571	1.3	1.0	1.3	1.0	1.0
ND92-1111	1.4	1.0	2.0	1.0	1.0
ND93-5936	1.8	1.0	2.3	2.0	1.0
ND93-5949	1.4	1.0	2.0	1.7	1.0
ND93-6039	1.2	1.0	1.3	1.0	1.0
ND93-6064	1.2	1.0	1.3	1.0	1.0
ND93-6072	1.5	1.0	2.0	1.0	1.0
ND93-6074	1.4	1.0	2.0	1.7	1.0
ND93-6078	1.4	1.0	2.0	1.3	1.0
ND93-6247	1.4	1.0	1.7	1.3	1.0
ND93-6278	1.7	1.0	2.7	1.3	1.0
ND (M) 90-128010	1.2	1.0	1.0	1.3	1.0
ND (M) 90-138016	1.4	1.0	2.0	1.0	1.0
ND (M) 91-895	1.6	1.0	3.0	1.0	1.0
ND (M) 92-384	1.4	1.0	2.3	1.0	1.0
ND (SD) 92-2381	1.7	1.0	2.3	2.7	1.0
SD94-186	1.7	1.0	2.0	2.0	1.0
SD94-667	1.8	1.0	2.0	2.3	1.0
SD94-751	1.7	1.0	3.0	1.3	1.0
SD94-817	1.8	1.0	2.7	2.0	1.0
SD94-996	1.8	1.0	2.7	1.7	1.0
SD94-1590	1.6	1.0	2.0	2.0	1.0
SD (ND) 94-9218	1.4	1.0	1.7	1.0	1.0
SD (ND) 94-9231	1.5	1.0	2.7	1.0	1.0

UNIFORM TEST 0, 1997

LODGING (score)

Strain	Woodstock Ont.	Brookings SD	Watertown SD	Arlington WI
Agassiz (E)	1.0	1.0	1.0	3.0
Lambert (O)	1.0	1.0	1.0	3.0
Parker (I)	1.0	2.0	2.0	4.0
Traill	1.0	2.0	1.0	3.3
M90-128078	1.0	2.0	1.0	2.7
M90-135046	1.0	1.0	1.0	3.0
M90-162034	1.0	1.0	1.0	2.0
M90-178096	1.0	1.0	1.0	3.3
M90-217007	1.0	1.0	2.0	2.3
M90-239130	1.0	1.0	1.0	2.0
M90-249101	1.0	2.0	1.0	3.0
M91-821	1.0	1.0	1.0	3.0
M91-103023	1.0	2.0	2.0	4.7
M91-112019	1.0	1.0	2.0	3.0
M92-407	1.0	1.0	1.0	2.0
M92-542	1.0	1.0	1.0	2.3
M92-590	1.0	1.0	1.0	3.0
M92-597	1.0	2.0	1.0	2.7
M92-674	1.0	1.0	2.0	2.3
M92-1571	1.0	2.0	1.0	1.9
ND92-1111	1.0	2.0	1.0	2.3
ND93-5936	1.0	2.0	2.0	3.0
ND93-5949	1.0	1.0	1.0	2.7
ND93-6039	1.0	1.0	1.0	2.3
ND93-6064	1.0	1.0	1.0	2.0
ND93-6072	1.0	2.0	1.0	3.0
ND93-6074	1.0	1.0	1.0	2.7
ND93-6078	1.0	1.0	1.0	3.0
ND93-6247	1.0	1.0	1.0	3.0
ND93-6278	1.0	1.0	2.0	3.3
ND (M) 90-128010	1.0	1.0	1.0	2.0
ND (M) 90-138016	1.0	1.0	1.0	3.0
ND (M) 91-895	1.0	2.0	1.0	3.0
ND (M) 92-384	1.0	1.0	1.0	2.7
ND (SD) 92-2381	1.0	1.0	1.0	3.7
SD94-186	1.0	2.0	1.0	3.3
SD94-667	1.0	2.0	1.0	3.7
SD94-751	1.0	2.0	1.0	3.3
SD94-817	1.0	2.0	1.0	4.0
SD94-996	1.0	2.0	2.0	3.3
SD94-1590	1.0	2.0	1.0	3.0
SD (ND) 94-9218	1.0	2.0	1.0	2.7
SD (ND) 94-9231	1.0	1.0	1.0	3.0

UNIFORM TEST 0, 1997

PLANT HEIGHT (inches)

Strain	Mean 8 Tests	Morris MN	Rose- mount MN	Cassel- ton ND	Ottawa Ont.
Agassiz (E)	27	28	33	28	18
Lambert (O)	28	29	33	30	21
Parker (I)	34	36	38	30	24
Traill	26	26	28	29	20
M90-128078	27	30	31	31	20
M90-135046	30	35	37	34	20
M90-162034	29	33	33	30	20
M90-178096	31	35	36	32	21
M90-217007	30	35	37	32	21
M90-239130	29	33	34	31	20
M90-249101	27	30	33	31	18
M91-821	31	36	37	31	21
M91-103023	28	30	33	30	20
M91-112019	31	36	36	30	24
M92-407	29	33	35	32	21
M92-542	31	35	40	30	20
M92-590	30	33	37	31	22
M92-597	31	38	39	29	21
M92-674	32	36	40	35	22
M92-1571	29	36	35	27	23
ND92-1111	27	30	32	27	19
ND93-5936	32	36	40	34	22
ND93-5949	28	32	36	30	22
ND93-6039	27	30	34	30	19
ND93-6064	27	29	34	31	19
ND93-6072	31	35	37	29	23
ND93-6074	29	32	36	33	20
ND93-6078	30	34	39	33	20
ND93-6247	30	35	37	34	20
ND93-6278	31	33	38	33	22
ND (M) 90-128010	25	29	32	29	17
ND (M) 90-138016	29	31	33	29	22
ND (M) 91-895	29	33	34	31	21
ND (M) 92-384	27	30	33	34	19
ND (SD) 92-2381	30	37	37	32	20
SD94-186	34	39	44	32	23
SD94-667	30	34	38	31	19
SD94-751	28	34	35	29	19
SD94-817	32	37	39	32	20
SD94-996	36	41	44	34	26
SD94-1590	32	36	39	35	21
SD (ND) 94-9218	28	33	35	30	19
SD (ND) 94-9231	29	35	36	28	22

UNIFORM TEST 0, 1997

PLANT HEIGHT (inches)

Strain	Woodstock Ont.	Brookings SD	Watertown SD	Arlington WI
Agassiz (E)	20	25	27	34
Lambert (O)	22	25	27	39
Parker (I)	29	33	37	43
Traill	23	22	27	31
M90-128078	21	20	31	35
M90-135046	24	27	28	36
M90-162034	21	27	30	34
M90-178096	24	30	28	38
M90-217007	25	24	33	35
M90-239130	23	29	30	33
M90-249101	22	25	25	31
M91-821	27	26	29	38
M91-103023	23	27	30	32
M91-112019	27	26	31	41
M92-407	22	27	28	34
M92-542	25	26	33	37
M92-590	25	26	30	37
M92-597	25	25	32	35
M92-674	26	26	33	37
M92-1571	24	27	26	34
ND92-1111	21	24	32	34
ND93-5936	25	30	32	36
ND93-5949	21	21	30	35
ND93-6039	20	23	26	32
ND93-6064	22	19	30	33
ND93-6072	24	28	30	38
ND93-6074	20	24	30	34
ND93-6078	22	25	29	37
ND93-6247	22	22	31	35
ND93-6278	23	28	31	37
ND (M) 90-128010	20	20	26	27
ND (M) 90-138016	25	27	30	38
ND (M) 91-895	23	26	30	33
ND (M) 92-384	20	21	28	33
ND (SD) 92-2381	26	27	30	34
SD94-186	28	27	33	42
SD94-667	23	27	34	37
SD94-751	22	24	28	36
SD94-817	25	28	37	36
SD94-996	30	35	36	43
SD94-1590	25	28	32	38
SD (ND) 94-9218	22	24	28	35
SD (ND) 94-9231	23	27	30	34

UNIFORM TEST 0, 1997

SEED QUALITY (score)

Strain	Mean 7 Tests	Morris MN	Rose- mount MN	Cassel- ton ND	Ottawa Ont.
Agassiz (E)	1.9	1.3	1.7	1.0	2.2
Lambert (O)	1.9	1.7	1.3	1.3	2.5
Parker (I)	2.0	1.7	2.0	1.3	2.0
Traill	1.9	1.3	1.3	1.0	2.0
M90-128078	2.1	1.3	2.0	1.0	2.3
M90-135046	2.3	1.3	1.7	1.3	2.8
M90-162034	1.6	1.0	1.7	1.3	1.5
M90-178096	1.7	1.3	1.3	1.0	2.5
M90-217007	1.7	1.0	1.7	1.0	2.0
M90-239130	1.5	1.7	1.3	1.0	1.8
M90-249101	1.9	1.3	1.3	1.0	2.0
M91-821	1.8	1.3	1.7	1.0	1.5
M91-103023	2.0	1.3	1.7	1.3	3.0
M91-112019	1.8	1.3	1.7	1.0	2.0
M92-407	1.8	1.3	1.3	1.0	1.8
M92-542	2.0	1.3	2.0	1.0	2.0
M92-590	1.6	1.3	1.3	1.0	1.3
M92-597	1.5	1.3	1.0	1.0	1.0
M92-674	1.9	1.3	1.7	1.0	2.0
M92-1571	1.9	1.3	2.0	1.7	1.8
ND92-1111	1.9	1.0	1.3	1.0	2.3
ND93-5936	2.4	2.0	2.0	1.7	3.0
ND93-5949	1.8	1.3	1.3	1.0	1.8
ND93-6039	2.2	1.3	2.0	1.0	2.5
ND93-6064	2.2	2.0	1.7	1.0	3.0
ND93-6072	2.1	1.7	1.3	1.0	3.0
ND93-6074	1.9	1.3	1.3	1.0	3.0
ND93-6078	1.9	1.3	1.7	1.0	2.4
ND93-6247	2.1	1.3	1.7	1.3	2.7
ND93-6278	1.9	1.3	1.3	1.0	2.0
ND (M) 90-128010	2.2	1.7	1.3	1.3	2.2
ND (M) 90-138016	2.2	1.3	1.3	1.0	4.0
ND (M) 91-895	2.0	1.3	1.7	1.0	2.3
ND (M) 92-384	1.9	1.3	1.7	1.0	2.5
ND (SD) 92-2381	2.0	1.3	1.3	1.7	1.5
SD94-186	2.0	1.3	2.0	1.0	2.0
SD94-667	2.3	1.7	2.0	1.3	1.8
SD94-751	1.7	1.3	1.7	1.3	1.8
SD94-817	1.7	1.3	1.3	1.0	1.7
SD94-996	1.8	1.0	2.0	1.0	1.8
SD94-1590	2.1	1.3	2.0	1.7	2.3
SD (ND) 94-9218	2.0	1.3	1.7	1.0	2.8
SD (ND) 94-9231	1.9	1.3	1.7	1.0	2.5

UNIFORM TEST 0, 1997

SEED QUALITY (score)

Strain	Woodstock Ont.	Brookings SD	Watertown SD	Arlington WI
Agassiz (E)	3.0	2.0	2.0	
Lambert (O)	2.5	2.0	2.0	
Parker (I)	3.0	2.0	2.0	
Traill	2.5	3.0	2.0	
M90-128078	2.0	4.0	2.0	
M90-135046	2.0	4.0	3.0	
M90-162034	2.0	2.0	2.0	
M90-178096	2.0	2.0	2.0	
M90-217007	2.0	2.0	2.0	
M90-239130	2.0	2.0	1.0	
M90-249101	2.5	3.0	2.0	
M91-821	2.0	3.0	2.0	
M91-103023	3.0	2.0	2.0	
M91-112019	2.5	2.0	2.0	
M92-407	2.5	3.0	2.0	
M92-542	3.0	3.0	2.0	
M92-590	1.5	3.0	2.0	
M92-597	1.5	3.0	2.0	
M92-674	2.0	3.0	2.0	
M92-1571	1.5	3.0	2.0	
ND92-1111	3.0	3.0	2.0	
ND93-5936	3.0	3.0	2.0	
ND93-5949	2.0	3.0	2.0	
ND93-6039	2.5	4.0	2.0	
ND93-6064	2.0	3.0	3.0	
ND93-6072	2.5	2.0	3.0	
ND93-6074	2.5	2.0	2.0	
ND93-6078	3.0	2.0	2.0	
ND93-6247	3.0	3.0	2.0	
ND93-6278	2.5	2.0	3.0	
ND (M) 90-128010	3.0	3.0	3.0	
ND (M) 90-138016	2.0	4.0	2.0	
ND (M) 91-895	3.0	3.0	2.0	
ND (M) 92-384	2.5	2.0	2.0	
ND (SD) 92-2381	2.0	4.0	2.0	
SD94-186	2.0	4.0	2.0	
SD94-667	2.5	4.0	3.0	
SD94-751	2.0	2.0	2.0	
SD94-817	1.5	3.0	2.0	
SD94-996	2.0	3.0	2.0	
SD94-1590	2.5	3.0	2.0	
SD (ND) 94-9218	2.0	3.0	2.0	
SD (ND) 94-9231	2.5	2.0	2.0	

UNIFORM TEST 0, 1997

SEED SIZE (g/100)

Strain	Mean 7 Tests	Morris MN	Rose- mount MN	Cassel- ton ND	Ottawa Ont.
Agassiz (E)	14.7	15.7	14.5	14.2	13.0
Lambert (O)	16.6	17.5	15.2	15.4	15.2
Parker (I)	18.3	19.2	17.7	19.0	19.0
Traill	16.7	17.3	15.7	15.3	16.2
M90-128078	17.4	18.6	17.0	17.3	15.3
M90-135046	14.6	15.7	13.1	14.1	14.1
M90-162034	18.0	17.7	15.7	17.2	18.4
M90-178096	14.6	15.8	13.1	13.1	14.8
M90-217007	15.3	16.0	14.4	14.3	14.8
M90-239130	17.9	18.6	17.2	17.0	16.7
M90-249101	15.6	16.6	14.7	14.2	14.3
M91-821	16.8	16.8	16.1	15.4	16.5
M91-103023	16.0	17.3	15.2	16.2	14.6
M91-112019	18.1	18.8	17.0	16.7	16.8
M92-407	15.2	16.0	13.6	14.4	13.7
M92-542	18.9	19.6	19.5	17.8	18.4
M92-590	16.7	17.2	16.5	16.6	16.1
M92-597	16.6	17.8	15.8	16.2	16.6
M92-674	14.5	15.9	13.8	13.0	14.3
M92-1571	14.7	16.1	13.9	13.7	15.6
ND92-1111	17.2	18.7	15.9	17.1	15.3
ND93-5936	16.9	17.5	15.3	16.2	16.7
ND93-5949	14.5	15.4	12.8	14.2	15.0
ND93-6039	15.6	16.2	15.6	15.4	14.9
ND93-6064	16.0	16.3	14.1	15.1	15.5
ND93-6072	16.2	17.3	15.4	13.9	15.6
ND93-6074	15.2	15.5	14.2	14.5	13.7
ND93-6078	15.7	16.0	14.9	15.7	14.7
ND93-6247	16.1	16.4	15.4	16.0	14.3
ND93-6278	16.9	18.9	15.7	15.5	15.6
ND (M) 90-128010	17.5	17.9	16.6	17.7	14.9
ND (M) 90-138016	15.4	15.9	13.0	13.6	14.5
ND (M) 91-895	17.1	18.9	15.5	16.5	16.8
ND (M) 92-384	16.3	17.1	15.1	15.6	14.7
ND (SD) 92-2381	15.9	16.5	14.8	15.0	15.1
SD94-186	17.0	17.5	17.9	16.4	16.7
SD94-667	19.8	21.1	19.3	19.6	18.3
SD94-751	18.0	20.3	17.2	17.2	17.0
SD94-817	18.3	20.3	17.8	18.1	16.9
SD94-996	18.1	20.6	17.1	17.0	18.3
SD94-1590	17.3	18.7	17.4	16.6	17.3
SD (ND) 94-9218	16.0	16.1	14.5	15.5	15.7
SD (ND) 94-9231	16.6	18.1	16.0	15.2	15.8

UNIFORM TEST 0, 1997

SEED SIZE (g/100)

Strain	Woodstock Ont.	Brookings SD	Watertown SD	Arlington WI
Agassiz (E)	16.5	13.1	16.2	
Lambert (O)	19.3	14.8	19.1	
Parker (I)	20.1	14.7	18.3	
Traill	19.6	14.6	18.2	
M90-128078	18.6	16.0	18.8	
M90-135046	16.8	12.7	16.0	
M90-162034	19.9	17.1	19.8	
M90-178096	16.3	13.3	15.8	
M90-217007	16.7	14.5	16.3	
M90-239130	21.1	16.9	17.8	
M90-249101	17.9	15.3	16.3	
M91-821	19.8	15.3	17.9	
M91-103023	17.6	15.5	15.9	
M91-112019	19.8	18.0	19.9	
M92-407	18.0	13.7	17.3	
M92-542	19.3	16.2	21.6	
M92-590	17.7	14.2	18.4	
M92-597	18.8	14.2	17.0	
M92-674	15.9	12.8	15.6	
M92-1571	16.4	12.1	15.4	
ND92-1111	18.3	15.7	19.3	
ND93-5936	19.3	14.1	19.0	
ND93-5949	15.6	12.6	16.0	
ND93-6039	16.5	13.4	17.4	
ND93-6064	16.9	14.9	18.9	
ND93-6072	18.2	14.0	19.1	
ND93-6074	16.6	14.4	17.4	
ND93-6078	17.8	14.1	16.9	
ND93-6247	18.3	14.6	17.4	
ND93-6278	17.7	17.0	17.9	
ND (M) 90-128010	21.0	15.8	18.9	
ND (M) 90-138016	18.7	14.2	17.9	
ND (M) 91-895	17.8	15.8	18.6	
ND (M) 92-384	18.6	14.9	17.9	
ND (SD) 92-2381	18.3	14.6	17.1	
SD94-186	18.4	14.4	17.7	
SD94-667	21.7	17.0	21.5	
SD94-751	20.4	15.1	18.7	
SD94-817	20.6	15.2	19.3	
SD94-996	19.6	15.9	18.5	
SD94-1590	18.9	14.3	17.6	
SD (ND) 94-9218	18.6	13.3	18.3	
SD (ND) 94-9231	18.0	14.5	18.3	

UNIFORM TEST 0, 1997

Strain	PROTEIN (%)					
	Mean 5 Tests	Morris MN	Rosemount MN	Casselton ND	Brookings SD	Watertown SD
Agassiz (E)	40.8	40.3	40.8	41.6	41.0	40.1
Lambert (O)	40.2	38.2	40.3	40.7	40.4	41.3
Parker (I)	40.6	40.4	40.1	40.8	41.3	40.6
Traill	42.4	41.7	41.7	44.4	42.4	41.7
M90-128078	41.5	41.1	41.3	42.4	41.6	41.0
M90-135046	42.4	41.0	42.6	43.9	42.0	42.4
M90-162034	41.3	40.5	40.6	41.0	41.3	43.0
M90-178096	39.4	39.7	40.0	39.5	38.7	39.1
M90-217007	40.0	39.6	40.5	40.6	39.5	39.8
M90-239130	40.8	40.5	41.7	41.3	39.5	41.1
M90-249101	40.0	39.4	40.2	40.8	40.7	38.9
M91-821	39.2	38.4	39.3	39.0	40.0	39.5
M91-103023	39.4	39.0	38.8	41.0	38.9	39.2
M91-112019	39.3	39.5	39.4	39.8	38.1	39.6
M92-407	40.1	39.7	39.3	40.9	39.7	41.0
M92-542	40.6	40.4	39.8	41.0	40.7	41.1
M92-590	40.6	39.5	40.9	40.7	40.5	41.3
M92-597	41.4	40.6	40.8	42.3	41.5	41.6
M92-674	41.0	40.2	41.1	40.8	41.1	41.8
M92-1571	41.5	42.1	40.8	42.1	40.4	42.1
ND92-1111	41.2	40.3	40.3	44.3	40.2	40.8
ND93-5936	39.2	39.6	37.7	39.1	39.0	40.5
ND93-5949	39.3	40.2	38.0	39.1	38.8	40.4
ND93-6039	39.5	38.4	38.5	40.5	39.5	40.5
ND93-6064	40.0	39.6	39.7	40.2	39.6	41.0
ND93-6072	39.5	39.0	39.6	40.3	37.5	41.0
ND93-6074	38.9	37.7	38.2	39.7	38.0	40.9
ND93-6078	39.0	38.5	39.0	39.8	37.4	40.5
ND93-6247	39.5	39.2	38.5	41.0	38.3	40.3
ND93-6278	39.5	39.0	39.2	39.9	38.8	40.5
ND (M) 90-128010	40.5	40.1	39.8	41.7	40.1	41.0
ND (M) 90-138016	37.7	38.7	36.7	37.9	36.7	38.6
ND (M) 91-895	39.4	39.2	41.2	39.7	37.4	39.6
ND (M) 92-384	40.0	39.2	40.7	39.7	39.3	41.2
ND (SD) 92-2381	39.6	39.2	39.6	39.8	39.3	39.9
SD94-186	40.8	40.6	40.5	40.4	41.4	41.3
SD94-667	41.3	40.9	40.9	41.9	40.7	42.1
SD94-751	41.2	41.3	41.3	40.9	41.1	41.4
SD94-817	40.7	41.0	40.0	40.3	41.4	40.9
SD94-996	40.4	40.5	39.6	40.6	40.8	40.6
SD94-1590	40.5	40.5	40.0	41.0	41.3	39.8
SD (ND) 94-9218	39.0	37.9	38.6	40.2	37.6	40.5
SD (ND) 94-9231	40.1	40.3	40.5	40.4	38.9	40.4

UNIFORM TEST 0, 1997

Strain	Mean 5 Tests	OIL (%)				
		Morris MN	Rosemount MN	Casselton ND	Brookings SD	Watertown SD
Agassiz (E)	19.9	20.3	19.9	19.9	19.4	19.8
Lambert (O)	20.3	21.0	20.4	20.3	20.3	19.7
Parker (I)	19.6	19.9	19.9	20.2	18.5	19.7
Traill	18.9	19.8	19.2	18.5	18.4	18.6
M90-128078	19.2	19.9	18.8	19.0	19.4	18.9
M90-135046	18.6	19.2	19.3	17.9	18.7	18.1
M90-162034	19.1	19.3	19.2	19.5	19.2	18.4
M90-178096	19.3	18.8	19.3	19.2	20.3	18.9
M90-217007	20.4	20.7	20.6	20.3	20.5	19.8
M90-239130	19.7	19.8	19.5	19.4	20.6	19.1
M90-249101	19.9	20.1	19.8	19.9	19.9	19.8
M91-821	20.6	20.6	20.7	21.0	20.9	19.8
M91-103023	19.8	19.7	19.8	20.1	20.0	19.4
M91-112019	20.0	20.5	20.3	19.4	20.2	19.4
M92-407	19.9	19.9	19.9	20.0	20.3	19.6
M92-542	19.7	19.9	20.1	19.4	19.7	19.6
M92-590	19.9	19.8	20.4	20.0	19.9	19.2
M92-597	19.0	19.6	18.7	19.0	18.9	18.9
M92-674	19.4	19.4	19.6	19.5	19.2	19.1
M92-1571	19.5	19.3	19.5	21.5	19.0	18.2
ND92-1111	19.0	19.4	19.8	17.2	20.1	18.7
ND93-5936	20.2	20.7	21.0	20.3	20.0	18.9
ND93-5949	20.5	21.4	20.5	20.6	20.1	19.9
ND93-6039	20.4	20.6	20.6	20.5	20.3	19.9
ND93-6064	20.1	20.2	20.0	20.3	20.6	19.2
ND93-6072	20.5	20.6	20.5	20.0	21.7	19.6
ND93-6074	20.4	20.1	20.5	20.0	21.0	20.4
ND93-6078	20.3	20.3	20.4	20.0	21.4	19.6
ND93-6247	20.3	20.3	20.6	19.4	21.2	19.9
ND93-6278	20.1	20.2	20.3	19.7	20.7	19.7
ND (M) 90-128010	20.1	20.1	20.1	19.7	20.5	20.0
ND (M) 90-138016	20.0	20.7	20.2	20.2	20.1	19.0
ND (M) 91-895	20.3	20.3	21.6	19.7	20.8	19.0
ND (M) 92-384	20.0	19.9	20.2	20.3	20.4	19.0
ND (SD) 92-2381	20.4	20.3	20.8	20.5	20.6	19.9
SD94-186	19.6	19.5	19.8	20.3	19.2	19.0
SD94-667	19.0	19.1	19.2	19.1	19.2	18.4
SD94-751	19.5	19.6	19.2	19.8	19.4	19.3
SD94-817	19.4	19.2	20.3	19.6	18.9	18.9
SD94-996	19.4	20.3	19.9	19.2	18.9	18.7
SD94-1590	19.2	19.3	19.5	19.0	18.9	19.4
SD (ND) 94-9218	20.6	20.7	20.9	20.1	21.1	20.4
SD (ND) 94-9231	19.9	20.4	20.0	20.1	20.0	19.2

Uniform Test I, 1997

Strain	Parentage	Previous Testing	Generation Composited	Unique Traits
1. Freeborn (SCN)	Ozzie x Fayette	1	F8	Rps1, SCN 3
2. IA1006 (BSR)	IA2008 x Kenwood	3	F5	BSR
3. Lambert (0)	M75-274 x M76-151	5	F5	Rps1
4. Marcus 95 (L)	[Marcus (5) x Elgin 87] x [Marcus (5) x Preston BC-11-1]	4	BC4F2	Rps1-k, Rps6
5. Parker (I)	A79-136012 x Dawson	8	F5	Rps1
6. A95-582006	IA2008 x Marcus	PT IIA	F5	BSR
7. E93147	E86067 x Kenwood	1	F5	
8. M90-1279	BSR 101 x Kato	2	F5	Rps1
9. M90-184111	L85P-558 x M86-1973	SCN I	F5	Rps1, SCN
10. M91-947	(Sturdy x Kato) F1 x (Hardin x Kato) F1	2	F4	Rps1
11. M91-1137	Kasota x Kenwood	1	F5	Rps1-c
12. M92-64	Kato x PI 467.313	PT I	F5	Rps1
13. M92-281	Sturdy x A17	PT I	F5	Rps1
14. M92-540	M84-855 x Bert	UT 0	F4	Rps1
15. M92-538	M84-855 x Bert	PT I	F4	Rps1
16. M92-647	Agassiz x M81-381	UT 0	F5	Rps1
17. M92-1482	M84-1034 x Archer	PT I	F5	Rps1-k, Rps6 Rps1-c, Rps3
18. M92-1631	Faribault x Bell	SCN I	F5	SCN
19. M92-1645	Faribault x Bell	1	?	SCN
20. M92-1708	Kato x Bell	1	?	SCN
21. ORC 9502	ORC8802 x RCAT Angora	PT I	F5	DT2
22. U95-2418	MSBP1	PT IIA	F7	

UNIFORM TEST I, 1997

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	<u>Chlorosis</u>	<u>Emergence</u>	<u>Shattering</u>
		Score Ames	Score Ames	Score Manhattan
Freeborn (SCN)	WTBrDYBlEpI	2.7	5.0	2.0
IA1006 (BSR)	WTBrIYBlEpI	2.1	1.0	3.0
Lambert (O)	PGBrSYBfepI	2.3	2.0	3.0
Marcus 95 (L)	WTTnDYBfepI	4.0	1.0	2.0
Parker (I)	WGBrDYBfEpI	2.7	5.0	2.0
A95-582006	WGTnDYBfEpI	2.8	3.0	2.0
E93147	PTBrIYBlHI	3.5	1.0	2.0
M90-1279	PTTnDYBlEpI	2.0	5.0	2.0
M90-184111	WGBrDYBfEpI	3.1	2.0	2.0
M91-947	PGBrDYIbHI	2.8	5.0	2.0
M91-1137	PGBrDYBfepI	2.5	3.0	2.0
M92-64	PTBrDYBlEpI	2.7	4.0	2.0
M92-281	PGBrDYIbepI	2.6	5.0	3.0
M92-540	P+WGBrDYEpI	3.0	5.0	2.0
M92-538	WGBrIYYEpI	2.7	5.0	2.0
M92-647	PGBrDYBfEpI	1.8	1.0	2.0
M92-1482	PGTnDYIbepI	2.1	5.0	2.0
M92-1631	PTTnDYBlEpI	4.1	4.0	2.0
M92-1645	PGTnDYIbEpI	2.2	2.0	2.0
M92-1708	PTBrDYBlEpI	2.2	5.0	2.0
ORC 9502	PGBrDYEpSD	4.1	4.0	--
U95-2418	WGBrDYEpI	2.7	1.0	2.0

UNIFORM TEST I, 1997

DISEASE DATA

Strain	<u>BSR Resistance</u>		<u>SCL</u>	<u>PR</u>		<u>Hard Seed</u>	<u>PS</u>	<u>P&SB</u>
				Ames	Lafayette	Lafayette		
	% Incid.	% Sev.	%	Race 4	Race 7	%	a %	n %
Freeborn (SCN)			7.2		R	0	50	0
IA1006 (BSR)	40.0	9.0	18.5		S	0	10	4
Lambert (O)			3.5		S	16	54	6
Marcus 95 (L)			12.2		R	0	60	4
Parker (I)	100.0	36.0	31.2		S	8	42	0
A95-582006	70.0	18.0	37.5	S	H	0	50	4
E93147			1.7	S	S	0	54	4
M90-1279	90.0	25.0	9.7	S	R	10	24	4
M90-184111			36.3	S	R	16	34	0
M91-947			24.8	S	S	10	20	0
M91-1137			24.8	S	R	4	52	0
M92-64			10.3	S	S	22	24	0
M92-281			33.8	S	S	22	22	0
M92-540			4.2	S	S	12	46	0
M92-538			12.2	S	S	0	50	0
M92-647			2.8	S	S	0	28	0
M92-1482	80.0	16.0	30.0	S	R	0	18	2
M92-1631			12.2	S	H	0	12	2
M92-1645			10.3	S	R	0	40	0
M92-1708			8.5	S	R	0	18	0
ORC 9502			8.5	S	---	2	0	0
U95-2418			45.8	S	S	2	22	8

UNIFORM TEST I, 1997

REGIONAL SUMMARY

No. of Tests Strain	Yield	Rank	Maturity	Lodging	Plant Height	Seed Quality	Seed Size	<u>Composition</u>	
	15 bu/a	15 No.	12 Date	15 Score	15 In.	13 Score	14 g/100	Protein 5 %	Oil 5 %
Freeborn (SCN)	44.1	18	-0.1	1.4	32	1.5	17.8	41.4	20.2
IA1006 (BSR)	49.8	6	3.2	1.8	36	1.4	16.9	40.1	19.7
Lambert (O)	42.0	21	-7.3	1.5	30	1.5	16.3	40.6	20.5
Marcus 95 (L)	51.3	4	5.4	1.8	32	1.9	17.0	39.8	20.8
Parker (I)	46.4	13	9/19	2.3	36	1.6	17.5	40.4	20.1
A95-582006	51.8	2	5.8	2.0	36	1.5	15.4	40.0	19.7
E93147	51.5	3	3.8	1.5	31	1.4	17.6	39.1	20.2
M90-1279	45.6	15	-3.1	1.5	36	1.5	19.5	41.1	19.6
M90-184111	49.4	7	4.3	1.9	32	1.6	16.4	39.4	21.2
M91-947	48.1	10	2.4	1.7	35	1.5	17.6	40.3	20.2
M91-1137	48.5	9	2.3	1.7	36	1.4	15.3	40.9	20.0
M92-64	43.7	19	-4.0	1.4	34	1.4	20.5	42.0	19.1
M92-281	44.2	17	-5.3	1.8	32	1.6	15.9	40.5	19.4
M92-540	44.6	16	-4.9	1.4	35	1.6	17.8	40.2	20.3
M92-538	46.3	14	-1.6	1.9	36	1.3	17.3	39.1	20.5
M92-647	43.6	20	-4.9	1.5	31	1.5	15.2	41.3	19.8
M92-1482	48.9	8	4.9	1.6	36	1.4	18.1	40.4	19.9
M92-1631	40.4	22	-7.5	1.6	27	1.4	13.8	40.0	20.5
M92-1645	47.6	11	2.1	1.5	31	1.4	16.0	40.8	20.4
M92-1708	46.8	12	0.1	1.6	33	1.6	19.5	42.9	19.1
ORC 9502	50.1	5	5.4	1.3	27	1.4	19.6	39.7	20.4
U95-2418	52.7	1	4.3	1.6	33	1.4	16.3	40.1	20.1

125.9 Days After Planting

UNIFORM TEST I, 1997

1996-1997 2-YEAR MEAN

No. of Tests Strain	Yield	Rank	Maturity	Lodging	Plant Height	Seed Quality	Seed Size	<u>Composition</u>	
	29 bu/a	29 No.	25 Date	29 Score	29 In.	28 Score	28 g/100	10 %	10 %
Freeborn (SCN)	45.3	9	1.3	1.5	32	1.4	17.9	42.3	20.3
Lambert (O)	42.3	10	-6.7	1.5	30	1.6	16.5	42.0	20.6
Marcus 95 (L)	50.0	2	5.2	1.8	31	1.8	17.2	41.0	20.8
Parker (I)	47.7	6	9/19.5	2.4	35	1.6	17.4	41.1	20.4
E93147	50.1	1	3.9	1.5	31	1.6	17.7	40.2	20.4
M90-1279	47.3	7	-2.4	1.5	35	1.5	19.5	42.1	20.0
M91-947	48.5	4	2.3	1.8	35	1.4	17.5	41.5	20.3
M91-1137	49.7	3	2.8	1.8	36	1.4	15.5	41.8	20.2
M92-1645	48.0	5	2.5	1.5	31	1.5	16.1	41.9	20.6
M92-1708	47.1	8	0.8	1.7	33	1.5	19.9	43.7	19.3

122.7 Days After Planting

1995-1997 3-YEAR MEAN

No. of Tests Strain	43	43	35	43	43	42	42	15	15
Lambert (O)	43.5	4	-5.8	1.4	30	1.7	16.8	42.5	20.7
Marcus 95 (L)	50.2	1	4.8	1.7	31	1.9	17.1	41.0	20.7
Parker (I)	48.9	2	9/18.0	2.3	35	1.7	17.6	41.3	20.4
M90-1279	48.3	3	-1.9	1.4	35	1.6	19.6	42.4	20.0

121.5 Days After Planting

UNIFORM TEST I, 1997

YIELD (bu/a)

Strain	Mean 15 Tests	Greene IA	Kanawha IA	Poca- hontas IA	Lafa- yette IN	Ingham County MI	Saginaw County MI	Lamber- ton MN	Waseca MN
Freeborn (SCN)	44.1	45.0	40.7	46.7	24.9	39.7	47.7	49.2	39.8
IA1006 (BSR)	49.8	51.8	39.7	35.7	35.4	56.6	59.9	60.2	48.9
Lambert (O)	42.0	42.7	37.2	39.4	21.3	39.7	43.9	48.6	41.0
Marcus 95 (L)	51.3	52.1	41.1	43.8	33.2	58.5	55.2	60.6	47.1
Parker (I)	46.4	43.9	38.3	39.2	35.1	52.4	48.4	52.4	39.3
A95-582006	51.8	51.3	44.7	42.9	35.7	52.5	56.0	61.8	46.4
E93147	51.5	48.8	43.1	46.2	39.2	56.7	54.8	61.4	48.3
M90-1279	45.6	46.8	41.0	39.6	29.0	48.3	51.6	54.3	37.0
M90-184111	49.4	48.2	48.1	58.7	26.4	46.6	55.7	51.4	44.3
M91-947	48.1	45.0	43.6	46.4	31.4	53.4	49.1	46.3	40.0
M91-1137	48.5	47.2	43.0	41.1	34.7	47.3	51.7	53.9	43.6
M92-64	43.7	39.2	42.3	46.0	29.0	47.7	48.2	41.2	42.8
M92-281	44.2	44.1	41.5	32.5	27.7	46.5	48.9	48.1	42.5
M92-540	44.6	42.5	39.8	32.9	27.4	51.8	47.6	46.2	46.1
M92-538	46.3	46.6	41.5	44.1	33.3	47.2	54.2	45.4	46.1
M92-647	43.6	42.7	35.7	40.5	24.7	41.3	51.7	47.7	39.7
M92-1482	48.9	50.0	43.9	43.4	38.0	48.4	53.1	52.7	49.9
M92-1631	40.4	39.9	42.1	47.2	13.6	42.0	47.1	39.8	45.8
M92-1645	47.6	48.0	46.6	57.7	32.1	47.0	52.5	54.0	43.6
M92-1708	46.8	46.4	51.1	52.7	32.9	49.0	49.2	46.0	42.6
ORC 9502	50.1	52.3	41.8	46.9	21.4	58.2	56.0	63.7	42.7
U95-2418	52.7	51.0	41.4	50.9	35.6	51.7	59.0	65.0	45.6
C.V. (%)		8.2	7.8	16.0	14.3	10.4	6.8	9.6	10.4
L.S.D. (5%)		6.5	5.7	12.3	7.0	10.8	7.4	8.2	7.5
Row Sp. (In.)		27	27	27	24	30	30	10	10
Rows/Plot		4	4	4	4	4	4	10	10
Reps		3	3	3	3	2	2	3	3

UNIFORM TEST I, 1997

YIELD (bu/a)

Strain	Harting- ton NE	Ord NE	London Ont.	Ridge- town Ont.	Brook- ings SD	Water- town SD	Arlington WI
Freeborn (SCN)	27.3	66.2	50.4	62.0	35.4	40.7	45.1
IA1006 (BSR)	41.7	66.0	50.9	65.8	38.6	45.6	49.7
Lambert (O)	28.7	54.8	44.8	65.3	36.9	42.5	43.0
Marcus 95 (L)	47.3	66.7	50.6	69.1	42.7	49.7	51.1
Parker (I)	38.6	66.4	45.0	65.4	37.7	45.5	48.7
A95-582006	51.7	69.4	57.6	73.1	40.5	48.3	44.8
E93147	43.8	72.8	52.6	67.7	39.7	44.3	53.6
M90-1279	31.9	62.5	48.8	65.9	32.6	44.3	50.5
M90-184111	41.8	73.6	52.1	63.7	41.3	48.9	40.4
M91-947	36.6	68.7	53.1	67.3	38.2	45.4	56.4
M91-1137	47.5	67.0	52.3	65.7	41.3	43.1	48.8
M92-64	30.5	64.7	46.8	58.5	36.7	40.2	41.1
M92-281	31.2	61.4	47.6	63.2	37.2	44.1	46.6
M92-540	32.8	63.2	44.2	64.8	36.3	43.2	50.9
M92-538	32.8	58.8	49.5	65.3	35.9	45.1	48.6
M92-647	33.3	65.6	50.5	55.2	34.0	45.2	46.5
M92-1482	40.5	67.3	52.5	64.2	39.5	41.8	49.0
M92-1631	24.8	54.6	39.4	51.6	37.1	39.8	41.8
M92-1645	31.4	65.2	51.4	60.3	35.1	39.6	48.8
M92-1708	28.6	58.7	48.7	68.1	38.7	46.2	43.5
ORC 9502	39.4	71.9	52.5	66.2	40.5	46.3	52.2
U95-2418	50.7	62.1	55.0	73.5	48.2	49.9	51.1
C.V. (%)	9.3	6.9	10.0	7.5	7.8	8.8	6.6
L.S.D. (5%)	5.6	7.4	6.9	8.3	4.9	6.5	5.2
Row Sp. (In.)	30	30	14.8	17	30	30	7.5
Rows/Plot	4	4	4	5	4	4	11
Reps	3	3	4	2	3	3	3

UNIFORM TEST I, 1997

YIELD RANK

Strain	Yield Rank	Greene IA	Kanawha IA	Pocahontas IA	Lafayette IN	Ingham County MI	Saginaw County MI	Lamberton MN	Waseca MN
Freeborn (SCN)	18	14	17	7	18	21	19	13	19
IA1006 (BSR)	6	3	19	20	5	4	1	5	2
Lambert (O)	21	18	21	18	21	21	22	14	17
Marcus 95 (L)	4	2	15	12	9	1	6	4	4
Parker (I)	13	17	20	19	6	7	17	11	21
A95-582006	2	4	4	14	3	6	3	2	5
E93147	3	7	7	9	1	3	7	3	3
M90-1279	15	11	16	17	13	12	13	6	22
M90-184111	7	8	2	1	17	17	5	12	10
M91-947	10	14	6	8	12	5	15	17	18
M91-1137	9	10	8	15	7	14	11	8	11
M92-64	19	22	9	10	13	13	18	21	13
M92-281	17	16	12	22	15	18	16	15	16
M92-540	16	20	18	21	16	8	20	18	6
M92-538	14	12	12	11	8	15	8	20	6
M92-647	20	18	22	16	19	20	11	16	20
M92-1482	8	6	5	13	2	11	9	10	1
M92-1631	22	21	10	5	22	19	21	22	8
M92-1645	11	9	3	2	11	16	10	7	11
M92-1708	12	13	1	3	10	10	14	19	15
ORC 9502	5	1	11	6	20	2	3	9	14
U95-2418	1	5	14	4	4	9	2	1	9

UNIFORM TEST I, 1997

YIELD RANK

Strain	Harting- ton NE	Ord NE	London Ont.	Ridge- town Ont.	Brook- ings SD	Water- town SD	Arlington WI
Freeborn (SCN)	21	10	13	18	19	19	16
IA1006 (BSR)	7	11	10	9	10	7	8
Lambert (O)	19	21	20	12	15	17	19
Marcus 95 (L)	4	8	11	3	2	2	4
Parker (I)	10	9	19	11	12	8	12
A95-582006	1	4	1	2	5	4	17
E93147	5	2	4	5	7	12	2
M90-1279	15	16	15	8	22	12	7
M90-184111	6	1	8	16	3	3	22
M91-947	11	5	3	6	11	9	1
M91-1137	3	7	7	10	4	16	10
M92-64	18	14	18	20	16	20	21
M92-281	17	18	17	17	13	14	14
M92-540	14	15	21	14	17	15	6
M92-538	13	19	14	12	18	11	13
M92-647	12	12	12	21	21	10	15
M92-1482	8	6	5	15	7	18	9
M92-1631	22	22	22	22	14	21	20
M92-1645	16	13	9	19	20	22	10
M92-1708	20	20	16	4	9	6	18
ORC 9502	9	3	5	7	5	5	3
U95-2418	2	17	2	1	1	1	4

UNIFORM TEST I, 1997

MATURITY (date)

Strain	Mean 12 Tests	Greene IA	Kanawha IA	Poca- hontas IA	Lafa- yette IN	Ingham County MI	Saginaw County MI	Lamber- ton MN	Waseca MN
Freeborn (SCN)	-0.1		-1		-2	-2	1	0	2
IA1006 (BSR)	3.2		0		0	2	5	3	8
Lambert (O)	-7.3		-13		6	-10	-8	-11	-6
Marcus 95 (L)	5.4		0		5	7	5	5	11
Parker (I)	9/19		09/18		09/04	09/25	09/25	09/27	09/16
A95-582006	5.8		3		4	3	7	5	9
E93147	3.8		1		3	2	5	3	7
M90-1279	-3.1		-7		-4	-3	-3	-5	0
M90-184111	4.3		2		1	3	3	2	8
M91-947	2.4		-2		-1	4	2	0	4
M91-1137	2.3		0		1	1	2	1	6
M92-64	-4.0		-7		-5	-2	-5	-8	-3
M92-281	-5.3		-8		-7	-6	-2	-9	-2
M92-540	-4.9		-9		-3	-4	-7	-11	-5
M92-538	-1.6		-5		-1	-2	0	-6	1
M92-647	-4.9		-9		-6	-8	-6	-7	-2
M92-1482	4.9		-2		3	5	7	4	10
M92-1631	-7.5		-10		-7	-8	-5	-13	-5
M92-1645	2.1		-1		2	3	1	1	4
M92-1708	0.1		-3		1	0	3	-1	4
ORC 9502	5.4		0		2	6	6	5	10
U95-2418	4.3		-1		3	2	3	4	10
Date Planted	05/16		05/12		05/13	05/27	05/24	05/08	05/06
Days to Mature	125.9		129		114	121	124	142	133

UNIFORM TEST I, 1997

MATURITY (date)

Strain	Harting- ton NE	Ord NE	London Ont.	Ridge- town Ont.	Brook- ings SD	Water- town SD	Arlington WI
Freeborn (SCN)	-1	-1	1	1	1		0
IA1006 (BSR)	6	2	-1	4	0		9
Lambert (O)	-7	-4	-13	-8	-7		-7
Marcus 95 (L)	0	10	4	6	2		10
Parker (I)	09/16	09/16	09/26	09/24	09/16		09/20
A95-582006	9	8	3	6	3		9
E93147	7	0	3	3	3		8
M90-1279	-3	-2	-5	-2	-3		0
M90-184111	9	11	3	5	5		0
M91-947	4	7	0	3	3		5
M91-1137	9	6	-1	0	2		1
M92-64	-1	-2	-8	-2	-3		-2
M92-281	-7	-4	-6	-5	-3		-4
M92-540	-3	-4	-4	-4	-3		-2
M92-538	-2	-2	-2	0	0		0
M92-647	-4	-1	-6	-4	-3		-3
M92-1482	7	3	4	6	3		9
M92-1631	-8	-9	-5	-5	-8		-7
M92-1645	2	0	2	2	2		7
M92-1708	-1	-1	-3	0	0		2
ORC 9502	6	9	4	4	4		9
U95-2418	9	3	2	5	4		7
Date Planted	05/22	05/21	05/24	05/27	05/05		05/09
Days to Mature	117	118	125	120	134		134

UNIFORM TEST I, 1997

LODGING (score)

Strain	Mean 15 Tests	Greene IA	Kanawha IA	Poca- hontas IA	Lafa- yette IN	Ingham County MI	Saginaw County MI	Lamber- ton MN	Waseca MN
Freeborn (SCN)	1.4	1.6	1.3	1.1	1.0	1.5	1.0	2.7	1.7
IA1006 (BSR)	1.8	2.2	1.2	1.1	1.0	2.0	2.0	3.3	2.0
Lambert (O)	1.5	2.2	1.2	1.1	1.0	1.5	1.5	2.0	2.0
Marcus 95 (L)	1.8	2.0	1.2	1.1	1.0	3.5	2.0	3.3	1.3
Parker (I)	2.3	3.1	1.5	1.4	1.0	3.5	2.0	4.0	2.3
A95-582006	2.0	2.6	1.4	1.1	1.0	2.0	2.0	4.0	2.0
E93147	1.5	1.6	1.1	1.1	1.0	1.5	1.5	3.0	1.3
M90-1279	1.5	1.8	1.1	1.3	1.0	2.0	1.0	2.0	1.7
M90-184111	1.9	2.1	1.2	1.4	1.0	2.5	2.5	3.0	2.0
M91-947	1.7	2.1	1.4	1.3	1.0	1.5	1.0	3.0	2.0
M91-1137	1.7	1.8	1.2	1.1	1.0	2.0	1.5	3.3	2.0
M92-64	1.4	1.8	1.4	1.1	1.0	1.5	1.0	2.3	2.0
M92-281	1.8	2.5	1.2	1.1	1.0	1.5	2.0	2.7	2.0
M92-540	1.4	1.8	1.4	1.0	1.0	1.0	2.0	2.3	1.7
M92-538	1.9	1.9	1.2	1.4	1.0	2.0	2.5	2.7	2.0
M92-647	1.5	2.2	1.1	1.1	1.0	1.0	2.0	2.3	1.3
M92-1482	1.6	1.7	1.2	1.1	1.0	1.5	2.0	2.7	2.0
M92-1631	1.6	1.9	1.3	1.4	1.0	1.5	2.0	2.7	1.7
M92-1645	1.5	1.7	1.1	1.1	1.0	1.5	1.5	3.0	2.0
M92-1708	1.6	2.2	1.4	1.2	1.0	1.5	1.5	3.0	1.7
ORC 9502	1.3	1.4	1.1	1.1	1.0	1.5	1.0	2.7	1.3
U95-2418	1.6	2.1	1.1	1.1	1.0	2.0	1.5	3.3	2.0

UNIFORM TEST I, 1997

LODGING (score)

Strain	Harting- ton NE	Ord NE	London Ont.	Ridge- town Ont.	Brook- ings SD	Water- town SD	Arlington WI
Freeborn (SCN)	1.0	1.7	1.5	1.0	1.0	1.0	1.7
IA1006 (BSR)	1.3	1.7	1.3	1.0	2.0	2.0	3.0
Lambert (O)	1.0	1.0	1.1	1.0	2.0	1.0	3.0
Marcus 95 (L)	1.7	2.3	1.6	1.0	2.0	1.0	2.7
Parker (I)	2.3	2.7	1.5	2.0	2.0	2.0	3.7
A95-582006	2.0	2.0	1.5	1.0	2.0	2.0	3.3
E93147	1.7	2.0	1.1	1.0	2.0	1.0	2.3
M90-1279	1.0	1.3	1.0	1.0	2.0	1.0	2.7
M90-184111	1.7	2.0	1.1	1.0	2.0	1.0	3.7
M91-947	1.7	3.0	1.1	1.0	1.0	2.0	2.7
M91-1137	1.3	1.7	1.4	1.0	2.0	1.0	3.3
M92-64	1.0	1.7	1.0	1.0	1.0	1.0	2.7
M92-281	1.3	1.7	1.1	1.5	2.0	2.0	3.3
M92-540	1.0	1.3	1.1	1.0	1.0	2.0	2.0
M92-538	2.0	2.7	1.3	1.0	2.0	2.0	2.3
M92-647	1.0	2.0	1.1	1.0	1.0	1.0	3.0
M92-1482	1.0	2.0	1.1	1.0	2.0	1.0	2.7
M92-1631	1.0	1.0	1.0	1.0	2.0	2.0	2.3
M92-1645	1.0	1.7	1.1	1.0	2.0	1.0	2.0
M92-1708	2.0	1.3	1.0	1.0	2.0	1.0	2.3
ORC 9502	1.0	1.0	1.0	1.0	1.0	1.0	3.0
U95-2418	1.7	1.7	1.3	1.0	1.0	1.0	2.3

UNIFORM TEST I, 1997

PLANT HEIGHT (inches)

Strain	Mean 15 Tests	Greene IA	Kanawha IA	Poca- hontas IA	Lafa- yette IN	Ingham County MI	Saginaw County MI	Lamber- ton MN	Waseca MN
Freeborn (SCN)	32	36	29	28	25	26	33	36	41
IA1006 (BSR)	36	42	36	32	32	35	40	40	44
Lambert (O)	30	32	25	29	21	27	30	33	37
Marcus 95 (L)	32	38	24	26	27	33	33	36	41
Parker (I)	36	39	31	33	30	38	35	42	44
A95-582006	36	41	36	32	29	31	36	41	43
E93147	31	38	31	29	26	31	29	36	40
M90-1279	36	42	34	34	29	31	34	44	45
M90-184111	32	36	30	33	26	29	32	38	39
M91-947	35	41	35	34	27	31	33	38	43
M91-1137	36	40	32	33	30	31	36	40	43
M92-64	34	38	34	31	27	30	33	39	42
M92-281	32	37	30	26	26	26	33	37	39
M92-540	35	36	31	30	29	37	34	38	43
M92-538	36	39	32	36	29	32	39	42	45
M92-647	31	37	29	28	24	27	34	33	38
M92-1482	36	40	32	34	30	31	37	39	44
M92-1631	27	30	32	26	23	24	27	31	33
M92-1645	31	37	31	31	25	27	32	34	39
M92-1708	33	38	35	31	28	30	29	39	39
ORC 9502	27	30	23	24	20	25	27	29	32
U95-2418	33	36	31	30	28	29	32	37	40

UNIFORM TEST I, 1997

PLANT HEIGHT (inches)

Strain	Harting- ton NE	Ord NE	London Ont.	Ridge- town Ont.	Brook- ings SD	Water- town SD	Arlington WI
Freeborn (SCN)	29	35	24	32	32	34	36
IA1006 (BSR)	36	39	27	28	30	33	40
Lambert (O)	30	32	22	36	25	31	38
Marcus 95 (L)	33	36	23	32	29	29	39
Parker (I)	39	38	25	35	35	34	42
A95-582006	37	39	29	36	33	36	40
E93147	28	34	23	31	28	29	36
M90-1279	39	41	26	34	33	36	44
M90-184111	32	36	24	32	28	33	37
M91-947	35	41	26	34	29	37	42
M91-1137	36	41	28	36	33	36	41
M92-64	33	39	24	34	30	36	37
M92-281	33	37	23	33	28	34	37
M92-540	36	38	26	37	34	37	40
M92-538	36	41	26	31	35	39	40
M92-647	33	36	23	28	24	35	36
M92-1482	35	40	26	35	33	37	41
M92-1631	24	29	19	24	26	28	32
M92-1645	29	33	24	32	26	30	34
M92-1708	32	40	24	32	31	36	36
ORC 9502	24	27	23	28	22	27	39
U95-2418	32	34	24	35	31	33	37

UNIFORM TEST I, 1997

SEED QUALITY (score)

Strain	Mean 13 Tests	Greene IA	Kanawha IA	Poca- hontas IA	Lafa- yette IN	Ingham County MI	Saginaw County MI	Lamber- ton MN	Waseca MN
Freeborn (SCN)	1.5	1.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0
IA1006 (BSR)	1.4	1.0	1.0	1.0	1.0	1.0	1.0	1.3	1.0
Lambert (O)	1.5	1.5	1.5	2.0	1.0	1.0	1.0	1.3	1.3
Marcus 95 (L)	1.9	1.5	3.0	2.0	1.0	1.0	1.0	1.7	1.3
Parker (I)	1.6	1.5	1.5	2.0	1.0	1.0	1.0	1.7	1.7
A95-582006	1.5	1.0	1.5	1.5	1.0	1.0	1.0	1.7	1.3
E93147	1.4	1.0	1.0	1.0	1.0	1.0	1.0	1.7	1.3
M90-1279	1.5	1.0	1.5	1.0	1.0	1.0	1.0	1.7	1.3
M90-184111	1.6	1.0	3.0	1.0	1.0	1.0	1.0	1.3	1.3
M91-947	1.5	1.0	2.0	1.0	1.0	1.0	1.0	1.3	1.3
M91-1137	1.4	1.0	1.0	1.0	1.0	1.0	1.0	1.3	1.3
M92-64	1.4	1.0	1.5	1.0	1.0	1.0	1.0	1.0	1.7
M92-281	1.6	1.5	2.0	1.5	1.0	1.0	2.0	1.3	1.0
M92-540	1.6	1.5	1.0	1.5	1.0	1.0	2.0	1.3	1.3
M92-538	1.3	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
M92-647	1.5	1.0	1.5	1.0	1.0	1.0	1.0	1.3	1.0
M92-1482	1.4	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
M92-1631	1.4	1.0	1.5	1.5	1.0	1.0	1.0	1.0	1.0
M92-1645	1.4	1.0	1.5	1.0	1.0	1.0	1.0	1.3	1.7
M92-1708	1.6	1.5	1.5	1.0	1.0	1.0	2.0	1.3	1.7
ORC 9502	1.4	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
U95-2418	1.4	1.0	1.5	1.0	1.0	1.0	1.0	1.0	1.0

UNIFORM TEST I, 1997

SEED QUALITY (score)

Strain	Harting- ton NE	Ord NE	London Ont.	Ridge- town Ont.	Brook- ings SD	Water- town SD	Arlington WI
Freeborn (SCN)	2.3	1.7	1.5		3.0	2.0	
IA1006 (BSR)	2.0	2.0	1.5		2.0	2.0	
Lambert (O)	1.7	2.0	1.5		2.0	2.0	
Marcus 95 (L)	2.7	2.0	2.0		3.0	2.0	
Parker (I)	2.3	1.7	1.5		2.0	2.0	
A95-582006	2.3	2.0	1.5		2.0	2.0	
E93147	2.3	1.7	1.5		2.0	2.0	
M90-1279	2.3	2.0	1.5		2.0	2.0	
M90-184111	2.3	2.0	1.0		3.0	2.0	
M91-947	1.7	1.7	2.0		3.0	2.0	
M91-1137	1.7	2.0	1.5		3.0	2.0	
M92-64	2.3	1.7	1.5		2.0	2.0	
M92-281	2.0	2.0	1.5		2.0	2.0	
M92-540	1.7	2.0	2.0		3.0	2.0	
M92-538	2.0	1.3	1.0		2.0	2.0	
M92-647	2.3	1.7	1.5		3.0	2.0	
M92-1482	1.7	2.0	1.0		3.0	2.0	
M92-1631	2.0	1.3	1.5		3.0	2.0	
M92-1645	2.0	2.0	1.0		2.0	2.0	
M92-1708	2.3	2.0	1.5		2.0	2.0	
ORC 9502	2.0	1.7	1.5		2.0	3.0	
U95-2418	2.3	1.3	1.5		2.0	2.0	

UNIFORM TEST I, 1997

SEED SIZE (g/100)

Strain	Mean 14 Tests	Greene IA	Kanawha IA	Poca- hontas IA	Lafa- yette IN	Ingham County MI	Saginaw County MI	Lamber- ton MN	Waseca MN
Freeborn (SCN)	17.8	17.8	17.5	15.2	14.1	19.2	18.8	18.5	18.8
IA1006 (BSR)	16.9	15.9	15.3	12.9	13.4	19.5	18.4	18.2	17.9
Lambert (O)	16.3	15.4	14.7	12.8	14.4	18.1	16.1	16.3	17.2
Marcus 95 (L)	17.0	16.6	15.3	13.4	14.2	18.4	18.0	17.8	17.0
Parker (I)	17.5	15.8	16.9	14.8	15.3	19.2	18.0	18.1	17.6
A95-582006	15.4	14.6	14.4	12.1	12.7	16.9	16.4	16.7	16.6
E93147	17.6	16.4	16.1	13.8	15.1	18.2	18.1	18.8	19.5
M90-1279	19.5	18.5	17.1	14.8	15.1	21.3	20.9	20.1	20.6
M90-184111	16.4	13.6	15.6	14.5	13.7	17.4	16.1	17.8	17.3
M91-947	17.6	16.1	15.2	14.0	14.8	20.2	18.5	18.0	18.3
M91-1137	15.3	14.0	14.4	12.0	13.1	16.4	15.7	16.4	17.4
M92-64	20.5	19.6	18.6	15.4	17.0	23.0	21.3	20.6	21.2
M92-281	15.9	14.6	14.4	11.5	12.5	17.0	16.1	16.9	18.4
M92-540	17.8	16.0	16.3	14.1	15.8	19.6	17.1	17.8	18.4
M92-538	17.3	15.6	16.2	14.2	14.6	19.2	17.0	17.6	19.3
M92-647	15.2	13.6	14.3	12.2	12.1	16.1	14.6	16.3	15.9
M92-1482	18.1	17.7	16.2	13.7	15.1	20.7	20.3	19.3	19.4
M92-1631	13.8	11.8	13.3	11.3	11.5	14.8	15.2	13.0	14.7
M92-1645	16.0	13.4	15.4	13.6	13.2	17.2	17.3	16.5	16.3
M92-1708	19.5	19.0	18.7	16.5	15.7	20.6	20.5	19.9	20.5
ORC 9502	19.6	18.2	18.8	16.4	17.0	18.5	19.5	20.0	21.4
U95-2418	16.3	15.2	14.4	12.9	14.1	18.0	17.6	17.6	17.6

UNIFORM TEST I, 1997

SEED SIZE (g/100)

Strain	Harting- ton NE	Ord NE	London Ont.	Ridge- town Ont.	Brook- ings SD	Water- town SD	Arlington WI
Freeborn (SCN)	16.2	19.5	18.8	19.8	16.7	18.7	
IA1006 (BSR)	14.7	20.0	17.6	19.8	15.0	18.0	
Lambert (O)	16.0	17.2	17.2	17.5	16.5	19.3	
Marcus 95 (L)	16.6	20.5	17.6	18.3	16.0	18.0	
Parker (I)	16.7	19.3	18.2	19.7	16.5	19.1	
A95-582006	14.7	18.4	15.0	17.8	13.6	15.4	
E93147	16.7	20.3	18.3	21.1	16.3	18.2	
M90-1279	18.2	20.5	20.5	22.5	19.1	23.3	
M90-184111	15.7	18.7	16.9	18.1	15.7	18.3	
M91-947	15.4	19.4	19.1	20.3	16.7	20.5	
M91-1137	15.7	18.4	15.4	16.0	13.4	16.2	
M92-64	18.9	22.3	22.4	22.0	20.1	24.6	
M92-281	15.2	17.7	16.8	18.0	14.4	18.5	
M92-540	17.0	19.4	19.2	21.1	17.5	20.5	
M92-538	16.6	17.6	18.6	19.2	15.6	20.4	
M92-647	14.5	17.1	16.1	16.5	14.7	19.3	
M92-1482	17.0	19.5	19.5	19.1	16.6	19.9	
M92-1631	12.6	13.8	14.9	16.3	13.8	16.6	
M92-1645	15.4	17.8	16.7	17.3	15.6	18.3	
M92-1708	18.3	20.7	19.7	20.4	19.1	23.9	
ORC 9502	17.9	22.4	21.8	21.4	18.9	22.3	
U95-2418	15.4	19.1	16.8	18.0	14.6	16.6	

UNIFORM TEST I, 1997

PROTEIN (%)

Strain	Mean 5 Tests	Kanawha IA	East Lansing MI	Lamberton MN	Lincoln NE	Brookings SD
Freeborn (SCN)	41.4	41.2	42.8	41.0	41.2	40.8
IA1006 (BSR)	40.1	38.8	42.0	40.1	40.1	39.3
Lambert (O)	40.6	40.7	42.8	40.1	40.2	39.3
Marcus 95 (L)	39.8	39.4	41.5	39.4	40.3	38.6
Parker (I)	40.4	39.2	42.5	39.9	39.9	40.4
A95-582006	40.0	38.8	42.0	39.0	40.8	39.4
E93147	39.1	37.9	40.8	38.8	39.1	38.7
M90-1279	41.1	40.3	43.6	40.3	41.0	40.5
M90-184111	39.4	38.2	40.8	41.2	39.0	37.6
M91-947	40.3	38.9	42.7	39.4	41.0	39.3
M91-1137	40.9	40.5	43.4	40.2	41.3	38.9
M92-64	42.0	40.3	44.8	41.0	42.5	41.3
M92-281	40.5	39.7	42.5	39.9	40.9	39.4
M92-540	40.2	40.1	42.2	39.4	39.7	39.7
M92-538	39.1	38.1	41.2	39.4	39.3	37.6
M92-647	41.3	40.3	42.4	42.0	40.9	40.9
M92-1482	40.4	40.0	42.4	38.8	40.6	40.3
M92-1631	40.0	39.2	41.9	39.2	39.7	40.0
M92-1645	40.8	40.4	42.2	40.6	40.5	40.3
M92-1708	42.9	42.5	44.5	42.6	42.5	42.3
ORC 9502	39.7	40.0		39.2	40.2	39.2
U95-2418	40.1	40.0	41.9	38.9	39.6	40.0

UNIFORM TEST I, 1997

Strain	OIL (%)					
	Mean 5 Tests	Kanawha IA	East Lansing MI	Lamberton MN	Lincoln NE	Brookings SD
Freeborn (SCN)	20.2	20.3	19.3	20.0	20.8	20.4
IA1006 (BSR)	19.7	20.4	18.5	19.6	19.7	20.1
Lambert (O)	20.5	20.3	19.3	20.6	20.9	21.2
Marcus 95 (L)	20.8	22.3	19.3	21.1	20.2	20.9
Parker (I)	20.1	21.1	19.0	20.2	20.2	20.2
A95-582006	19.7	20.3	18.3	20.2	19.5	20.0
E93147	20.2	20.7	19.2	20.6	20.3	20.2
M90-1279	19.6	20.2	18.0	19.8	20.0	20.0
M90-184111	21.2	21.6	19.8	21.8	21.5	21.4
M91-947	20.2	21.2	19.0	20.3	20.3	20.4
M91-1137	20.0	20.5	18.4	20.2	19.9	20.9
M92-64	19.1	19.8	17.9	19.1	19.0	19.7
M92-281	19.4	20.3	18.5	19.5	18.7	20.1
M92-540	20.3	20.9	19.3	20.6	20.2	20.4
M92-538	20.5	21.2	18.7	20.6	20.9	21.1
M92-647	19.8	20.6	19.2	19.0	19.7	20.3
M92-1482	19.9	20.7	18.7	20.6	19.9	19.6
M92-1631	20.5	20.9	20.4	20.0	20.4	20.7
M92-1645	20.4	20.8	19.7	20.2	20.6	20.5
M92-1708	19.1	19.7	18.0	19.0	19.5	19.5
ORC 9502	20.4	20.5		20.4	20.2	20.3
U95-2418	20.1	21.1	18.6	20.3	19.9	20.4

Preliminary Test I

Strain	Parentage	Generation Composited	Unique Traits
1. IA1006 (BSR)	IA2008 x Kenwood	F5	BSR
2. Lambert (0)	M75-274 x M76-151	F5	Rps1
3. Marcus 95 (L)	[Marcus (5) x Elgin 87] x [Marcus (5) x Preston BC-11-1]	BC4F2	Rps1-k, Rps6
4. Parker (I)	A79-136012 x Dawson	F5	Rps1
5. A96-491024	Pioneer 9273 x (A92-535059 x NK S20-20)	F4	Chlorosis
6. A96-491070	A92-532027 x A92-536055	F5	Chlorosis
7. A96-492041	NK S24-92 x NK S19-90	F5	
8. A96-492058	IA3003 x NK S24-92	F5	
9. A96-492059	IA30003 x NK S24-92	F5	
10. A96-492061	IA3003 x NK S24-92	F5	
11. A96-494017	NK S24-92 x A91-501002	F5	Chlorosis
12. A96-494018	NK S24-92 x A91-501002	F5	BSR
13. A96-494025	Thorne x NK S24-92	F5	BSR
14. E95504	Felix x NK S19-90	F5	
15. E95505	Felix x NK S19-90	F5	
16. E95878	Felix x NK S19-90	F5	
17. M88-302032	Leslie x T11	F5	Rps1
18. M90-165060	Century 84 x Agassiz	F5	Rps1-k
19. M90-166054	Parker x Archer	F5	Rps1-k, BSR
20. M90-166068	Parker x Archer	F5	Rps1-k, BSR
21. M90-178161	M85-23 x A20	F5	Rps1, BSR
22. M90-207091	Kasota x LN86-983	F5	Rps1-c, BSR
23. M90-223088	M84-833 x M83-744	F5	Rps1
24. M91-113037	Parker x Archer	F4	Rps1-k, BSR
25. ORC 9601	RCAT 9006 x A87-196014	F5	
26. ORC 9602	RCAT Angora x Dominator	F5	
27. ORC 9603	RCAT 9006 x A87-196014	F5	
28. SD94-57	Simpson x Elgin 87	F5	
29. SD94-215	Sibley x Archer	F5	BSR
30. SD94-280	Glenwood x Leslie	F5	
31. SD94-1370	SD87001 x Leslie	F5	
32. SD94-1478	Archer x Glenwood	F5	BSR
33. SD(ND)94-9295	Lambert x Pioneer 9061	F5	
34. SD(ND)94-9388	Lambert x Pioneer 9061	F5	

PRELIMINARY TEST I, 1997

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	<u>Chlorosis</u>	<u>Shattering</u>
		Score Ames	Score Manhattan
IA1006 (BSR)	WtBrIYBlEpI	2.2	2.0
Lambert (O)	PGBrSYBfepI	2.0	2.0
Marcus 95 (L)	WTtnDYBfepI	4.2	2.0
Parker (I)	WGBrDYBfEpI	3.0	2.0
A96-491024	PTBrDYBlEpI	2.3	2.0
A96-491070	PGtnDYYepI	1.5	2.0
A96-492041	PTBrDYGrepI	3.5	2.0
A96-492058	PTBrDYBlEpI	3.6	2.0
A96-492059	PTBrSYBlEpI	3.6	--
A96-492061	PTBrDYBlepI	2.6	2.0
A96-494017	PTBrSYBlEpI	3.8	2.0
A96-494018	PTBrSYBlEpI	3.6	2.0
A96-494025	WtBrDYBlEpI	3.0	2.0
E95504	PTtnSYGrEpI	2.8	2.0
E95505	PGBrIYGrHI	1.8	2.0
E95878	PGBrIYIbepI	2.5	2.0
M88-302032	PTBrDYBrepI	2.0	2.0
M90-165060	P+WGBrDYIbEpI	2.1	2.0
M90-166054	WGBrIYBfHI	2.2	2.0
M90-166068	PGtnDYIbEpI	3.0	2.0
M90-178161	WGBrDYBfHI	1.8	2.0
M90-207091	WGBrDYBfepI	2.0	2.0
M90-223088	PGBrDYYHI	2.5	2.0
M91-113037	WGTnDYBfepI	3.0	2.0
ORC 9601	P+WtBrDYBlEpI	3.2	--
ORC 9602	PGBrIYYepI	2.5	2.0
ORC 9603	PTtnDYBlEpI	3.0	2.0
SD94-57	PTBrDYBrHI	2.5	2.0
SD94-215	PGBrDYGrEpI	2.1	2.0
SD94-280	PGtnDYIbEpI	2.1	2.0
SD94-1370	PGtnDYIbEpI	1.6	2.0
SD94-1478	PGtnDYIbEpI	2.2	3.0
SD (ND) 94-9295	PGBrDYBfepI	3.2	2.0
SD (ND) 94-9388	PGBrDYBfHI	2.7	2.0

PRELIMINARY TEST I, 1997

DISEASE DATA

Strain	<u>BSR Resistance</u>		Ames Race 4	<u>PR</u>	<u>Hard Seed</u>	<u>PS</u>	<u>P&SB</u>
	% Incid.	% Sev.		Lafayette	Lafayette		n %
				Race 7	%	a %	
IA1006 (BSR)	40.0	9.0		S	0	10	4
Lambert (0)				S	16	54	6
Marcus 95 (L)				R	0	60	4
Parker (I)	100.0	36.0		S	8	42	0
A96-491024	100.0	50.0	S	S	6	52	6
A96-491070	95.0	41.0	S	S	0	7	0
A96-492041	95.0	35.0	S	R	0	24	2
A96-492058	100.0	41.0	S	S	0	16	0
A96-492059	70.0	16.0	S	S	2	0	0
A96-492061	95.0	32.0	S	S	2	20	0
A96-494017	60.0	9.0	S	S	14	18	0
A96-494018	60.0	16.0	S	S	0	8	0
A96-494025	90.0	26.0	S	S	0	8	0
E95504			S	R	2	2	0
E95505			S	S	4	2	0
E95878			S	S	0	18	0
M88-302032			S	R	2	18	2
M90-165060			R	R	18	22	0
M90-166054	80.0	18.0	R	R	8	60	2
M90-166068	100.0	32.0	R	R	28	14	0
M90-178161	90.0	22.0	S	S	12	30	2
M90-207091	70.0	12.0	S	R	8	24	0
M90-223088			S	S	12	4	0
M91-113037	90.0	22.0	R	R	0	50	0
ORC 9601			S	---	0	50	0
ORC 9602			S	R	4	16	0
ORC 9603			S	S	0	14	2
SD94-57			S	R	6	30	0
SD94-215	85.0	15.0	S	R	6	32	0
SD94-280			S	S	18	54	0
SD94-1370			S	R	6	32	0
SD94-1478	50.0	10.0	S	R	20	36	0
SD (ND) 94-9295			S	S	8	52	0
SD (ND) 94-9388			S	S	24	28	0

PRELIMINARY TEST I, 1997

REGIONAL SUMMARY

No. of Tests Strain	Yield	Rank	Maturity	Lodging	Plant Height	Seed Quality	Seed Size	Composition	
	6 bu/a	6 No.	5 Date	6 Score	6 In.	6 Score	6 g/100	5 %	5 %
IA1006 (BSR)	52.8	7	1.2	2.0	37	1.3	16.3	39.5	19.6
Lambert (0)	45.2	33	-7.0	1.8	30	1.3	15.6	40.3	20.5
Marcus 95 (L)	48.0	27	4.0	1.7	31	1.8	16.7	39.1	20.7
Parker (I)	49.1	23	9/20	2.9	37	1.6	16.9	40.3	20.0
A96-491024	53.2	6	7.6	1.5	33	1.4	15.2	39.5	20.8
A96-491070	52.3	9	4.4	1.8	33	1.5	17.5	40.6	19.9
A96-492041	58.5	1	1.8	1.5	32	1.5	15.8	38.8	19.8
A96-492058	58.2	2	3.8	1.7	32	1.3	17.1	41.1	19.4
A96-492059	52.7	8	3.0	1.7	30	1.2	16.0	41.0	19.4
A96-492061	54.6	5	2.4	1.8	33	1.3	17.1	40.3	19.6
A96-494017	52.2	10	4.8	1.9	34	1.4	18.4	41.7	19.7
A96-494018	58.2	2	4.4	1.6	32	1.7	16.8	40.5	20.0
A96-494025	52.1	11	4.8	1.5	32	1.5	15.5	40.8	20.0
E95504	50.2	16	6.2	1.5	35	1.3	20.1	39.2	19.8
E95505	56.3	4	5.0	1.9	37	1.3	16.6	38.8	19.7
E95878	51.6	13	-0.6	1.3	32	1.3	18.1	39.3	20.6
M88-302032	50.1	17	-0.6	1.5	33	1.3	17.7	39.5	20.0
M90-165060	50.1	17	1.4	1.6	32	1.6	15.5	40.3	20.0
M90-166054	51.5	14	1.8	2.2	36	1.6	16.8	40.9	19.3
M90-166068	48.9	24	-0.6	2.0	35	1.8	15.2	40.9	19.1
M90-178161	48.7	25	-3.8	2.0	32	1.7	14.3	39.3	20.5
M90-207091	47.4	31	-2.4	1.7	33	1.3	15.3	41.5	19.9
M90-223088	48.3	26	-2.2	1.5	31	1.6	15.3	41.0	19.8
M91-113037	50.8	15	1.4	1.9	34	1.5	16.9	38.9	20.0
ORC 9601	44.4	34	-4.4	1.4	31	1.5	16.7	41.5	19.7
ORC 9602	49.6	20	-2.6	1.3	30	1.3	17.8	39.5	20.5
ORC 9603	49.7	19	1.4	1.4	29	1.3	15.6	41.3	19.6
SD94-57	47.8	29	1.2	2.1	33	1.8	16.2	39.2	20.5
SD94-215	51.9	12	1.0	2.1	35	1.3	16.5	39.3	20.3
SD94-280	47.9	28	-3.0	1.4	37	2.0	16.7	40.2	19.7
SD94-1370	49.4	21	-0.6	1.9	32	1.6	16.2	40.9	19.9
SD94-1478	47.4	31	0.2	1.8	35	1.7	15.3	39.7	19.8
SD (ND) 94-9295	47.8	29	-1.2	1.5	32	1.8	15.5	40.0	20.4
SD (ND) 94-9388	49.4	21	-4.0	1.5	29	1.6	15.7	39.0	20.7

131.6 Days After Planting

PRELIMINARY TEST I, 1997

Strain	YIELD (bu/a)						
	Mean 6 Tests	Kanawha IA	Poca- hontas IA	Ingham County MI	Lamberton MN	Waseca MN	Brookings SD
IA1006 (BSR)	52.8	59.0	55.3	57.1	53.4	53.5	38.5
Lambert (O)	45.2	53.7	53.9	43.0	43.1	43.1	34.5
Marcus 95 (L)	48.0	60.9	56.2	42.2	48.2	46.6	33.8
Parker (I)	49.1	57.9	56.8	53.0	45.7	43.3	38.1
A96-491024	53.2	58.5	54.1	55.8	58.7	51.7	40.4
A96-491070	52.3	69.0	53.4	50.3	54.5	50.8	35.8
A96-492041	58.5	80.0	64.9	61.4	54.8	49.3	40.6
A96-492058	58.2	81.3	61.0	55.6	56.4	52.8	42.0
A96-492059	52.7	70.2	49.2	53.5	56.5	50.5	36.1
A96-492061	54.6	62.8	57.5	54.8	55.3	56.1	40.9
A96-494017	52.2	57.8	57.8	58.6	53.9	47.2	37.7
A96-494018	58.2	77.8	56.5	60.5	55.8	56.4	42.0
A96-494025	52.1	56.9	58.7	51.6	57.6	48.5	39.3
E95504	50.2	58.9	51.3	51.4	52.4	48.3	38.8
E95505	56.3	69.2	62.9	64.1	52.8	48.5	40.2
E95878	51.6	65.4	53.2	54.3	46.3	51.7	38.6
M88-302032	50.1	65.0	51.8	51.5	48.0	50.8	33.2
M90-165060	50.1	64.9	47.1	52.8	49.0	54.7	32.0
M90-166054	51.5	58.1	57.1	57.9	48.6	50.5	36.5
M90-166068	48.9	61.7	46.3	54.5	46.4	47.8	36.9
M90-178161	48.7	67.5	54.9	40.9	43.0	47.5	38.3
M90-207091	47.4	68.5	48.2	46.9	43.4	43.9	33.3
M90-223088	48.3	61.7	50.6	49.6	48.3	49.6	30.2
M91-113037	50.8	58.0	53.6	53.8	51.8	51.1	36.2
ORC 9601	44.4	48.4	45.1	45.4	40.5	53.3	33.5
ORC 9602	49.6	55.1	56.0	47.7	48.7	52.2	37.7
ORC 9603	49.7	67.0	43.4	53.1	44.8	51.7	37.9
SD94-57	47.8	66.0	53.6	50.7	44.1	35.9	36.2
SD94-215	51.9	57.2	54.3	57.4	55.1	48.0	39.3
SD94-280	47.9	55.6	54.6	49.1	41.7	48.3	38.1
SD94-1370	49.4	67.8	48.7	54.1	49.7	40.8	35.0
SD94-1478	47.4	59.1	53.0	51.0	44.2	44.0	33.1
SD (ND) 94-9295	47.8	54.2	50.1	48.7	47.5	49.1	37.3
SD (ND) 94-9388	49.4	58.4	46.9	46.2	52.5	54.1	38.1
C.V. (%)		10.2	9.6	6.6	4.5	7.7	7.8
L.S.D. (5%)		13.1	10.4	7.1	4.6	7.3	4.9
Row Sp. (In.)		27	27	30	10	10	30
Rows/Plot		4	4	4	4	4	4
Reps		2	2	2	2	2	2

PRELIMINARY TEST I, 1997

YIELD RANK

Strain	Yield Rank	Kanawha IA	Poca- hontas IA	Ingham County MI	Lamberton MN	Waseca MN	Brookings SD
IA1006 (BSR)	7	20	12	7	11	5	11
Lambert (O)	33	33	17	32	31	32	27
Marcus 95 (L)	27	18	10	33	21	28	28
Parker (I)	23	26	8	17	26	31	13
A96-491024	6	22	16	8	1	9	5
A96-491070	9	6	20	24	9	13	25
A96-492041	1	2	1	2	8	18	4
A96-492058	2	1	3	9	4	7	1
A96-492059	8	4	27	15	3	15	24
A96-492061	5	15	6	10	6	2	3
A96-494017	10	27	5	4	10	27	17
A96-494018	2	3	9	3	5	1	1
A96-494025	11	29	4	19	2	20	7
E95504	16	21	24	21	14	22	9
E95505	4	5	2	1	12	20	6
E95878	13	12	21	12	25	9	10
M88-302032	17	13	23	20	22	13	31
M90-165060	17	14	30	18	17	3	33
M90-166054	14	24	7	5	19	15	21
M90-166068	24	16	32	11	24	25	20
M90-178161	25	9	13	34	32	26	12
M90-207091	31	7	29	29	30	30	30
M90-223088	26	16	25	25	20	17	34
M91-113037	15	25	18	14	15	12	22
ORC 9601	34	34	33	31	34	6	29
ORC 9602	20	31	11	28	18	8	17
ORC 9603	19	10	34	16	27	9	16
SD94-57	29	11	18	23	29	34	22
SD94-215	12	28	15	6	7	24	7
SD94-280	28	30	14	26	33	22	13
SD94-1370	21	8	28	13	16	33	26
SD94-1478	31	19	22	22	28	29	32
SD (ND) 94-9295	29	32	26	27	23	19	19
SD (ND) 94-9388	21	23	31	30	13	4	13

PRELIMINARY TEST I, 1997

MATURITY (date)

Strain	Mean 5 Tests	Kanawha IA	Poca- hontas IA	Ingham County MI	Lamberton MN	Waseca MN	Brookings SD
IA1006 (BSR)	1.2	0		1	3	4	-2
Lambert (O)	-7.0	-10		-9	-9	-6	-1
Marcus 95 (L)	4.0	1		2	6	6	5
Parker (I)	9/20	09/17		09/24	09/25	09/19	09/16
A96-491024	7.6	9		7	8	8	6
A96-491070	4.4	3		4	6	7	2
A96-492041	1.8	2		1	3	2	1
A96-492058	3.8	4		3	6	4	2
A96-492059	3.0	4		5	1	4	1
A96-492061	2.4	2		2	2	4	2
A96-494017	4.8	4		7	4	8	1
A96-494018	4.4	4		6	5	6	1
A96-494025	4.8	4		6	4	7	3
E95504	6.2	5		7	7	8	4
E95505	5.0	4		7	7	5	2
E95878	-0.6	-1		-1	-1	0	0
M88-302032	-0.6	-5		1	-3	2	2
M90-165060	1.4	-1		3	-1	6	0
M90-166054	1.8	1		2	1	5	0
M90-166068	-0.6	-2		0	0	0	-1
M90-178161	-3.8	-6		-7	-5	-2	1
M90-207091	-2.4	-3		-4	-5	0	0
M90-223088	-2.2	-4		-2	-5	-1	1
M91-113037	1.4	1		1	1	1	3
ORC 9601	-4.4	-5		-4	-8	-5	0
ORC 9602	-2.6	-6		-3	-6	-1	3
ORC 9603	1.4	4		3	0	0	0
SD94-57	1.2	2		0	2	1	1
SD94-215	1.0	0		4	0	3	-2
SD94-280	-3.0	-5		-2	-7	-1	0
SD94-1370	-0.6	-3		3	-4	0	1
SD94-1478	0.2	-3		4	-2	2	0
SD (ND) 94-9295	-1.2	-4		-1	-3	0	2
SD (ND) 94-9388	-4.0	-6		-3	-5	-4	-2
Date Planted	05/11	05/12		05/27	05/08	05/06	05/05
Days to Mature	131.6	128		120	140	136	134

PRELIMINARY TEST I, 1997

LODGING (score)

Strain	Mean 6 Tests	Kanawha IA	Poca- hontas IA	Ingham County MI	Lamberton MN	Waseca MN	Brookings SD
IA1006 (BSR)	2.0	1.6	1.7	2.0	3.0	1.5	2.0
Lambert (O)	1.8	1.6	1.5	2.0	2.0	2.5	1.0
Marcus 95 (L)	1.7	1.4	1.3	1.0	3.0	1.5	2.0
Parker (I)	2.9	3.0	2.1	3.5	3.5	3.0	2.0
A96-491024	1.5	1.1	1.1	1.5	3.0	1.0	1.0
A96-491070	1.8	1.4	1.4	2.0	3.0	2.0	1.0
A96-492041	1.5	1.2	1.0	1.0	2.5	1.0	2.0
A96-492058	1.7	1.4	1.2	1.5	2.5	1.5	2.0
A96-492059	1.7	1.3	1.1	1.5	3.0	1.0	2.0
A96-492061	1.8	1.3	1.1	1.5	3.0	2.0	2.0
A96-494017	1.9	1.3	1.6	1.5	3.0	2.0	2.0
A96-494018	1.6	1.2	1.1	1.0	3.0	1.5	2.0
A96-494025	1.5	1.2	1.0	1.5	2.5	1.0	2.0
E95504	1.5	1.1	1.1	1.5	2.5	1.5	1.0
E95505	1.9	1.4	1.5	1.0	3.0	3.5	1.0
E95878	1.3	1.2	1.1	1.0	2.0	1.5	1.0
M88-302032	1.5	1.1	1.1	1.5	2.0	1.5	2.0
M90-165060	1.6	1.2	1.2	1.0	2.0	2.0	2.0
M90-166054	2.2	2.2	1.9	1.5	3.0	2.5	2.0
M90-166068	2.0	1.5	1.5	2.0	3.0	2.0	2.0
M90-178161	2.0	1.9	1.2	1.5	2.5	3.0	2.0
M90-207091	1.7	1.3	1.3	1.5	2.0	2.0	2.0
M90-223088	1.5	1.3	1.1	1.5	2.5	1.5	1.0
M91-113037	1.9	1.4	1.3	1.5	3.0	2.0	2.0
ORC 9601	1.4	1.2	1.1	1.0	2.0	1.0	2.0
ORC 9602	1.3	1.1	1.0	1.0	2.0	1.5	1.0
ORC 9603	1.4	1.1	1.0	1.0	2.0	1.0	2.0
SD94-57	2.1	1.8	1.6	1.5	3.5	2.0	2.0
SD94-215	2.1	1.8	1.4	2.0	3.0	2.5	2.0
SD94-280	1.4	1.1	1.4	1.5	2.0	1.5	1.0
SD94-1370	1.9	1.4	1.6	1.5	2.0	3.0	2.0
SD94-1478	1.8	1.6	1.9	1.0	2.5	2.0	2.0
SD (ND) 94-9295	1.5	1.4	1.2	1.5	2.0	2.0	1.0
SD (ND) 94-9388	1.5	1.2	1.1	1.5	2.0	1.0	2.0

PRELIMINARY TEST I, 1997

PLANT HEIGHT (inches)

Strain	Mean 6 Tests	Kanawha IA	Poca- hontas IA	Ingham County MI	Lamberton MN	Waseca MN	Brookings SD
IA1006 (BSR)	37	39	36	33	37	45	32
Lambert (O)	30	30	32	28	31	32	25
Marcus 95 (L)	31	33	34	27	31	36	24
Parker (I)	37	37	36	34	38	41	35
A96-491024	33	33	37	31	32	37	25
A96-491070	33	33	38	31	33	38	25
A96-492041	32	33	35	30	31	38	24
A96-492058	32	33	34	30	33	38	26
A96-492059	30	31	30	26	30	37	25
A96-492061	33	33	36	28	34	40	26
A96-494017	34	35	35	32	36	38	29
A96-494018	32	32	34	29	33	37	25
A96-494025	32	31	33	32	32	35	27
E95504	35	38	38	31	34	42	28
E95505	37	38	39	34	37	42	29
E95878	32	31	34	28	34	38	29
M88-302032	33	32	35	32	34	38	28
M90-165060	32	32	31	29	32	38	27
M90-166054	36	36	41	31	37	41	29
M90-166068	35	34	37	29	34	43	31
M90-178161	32	31	34	27	33	39	28
M90-207091	33	34	35	28	33	42	28
M90-223088	31	30	35	26	31	36	25
M91-113037	34	34	35	31	33	42	29
ORC 9601	31	29	31	30	30	37	26
ORC 9602	30	28	29	28	32	39	24
ORC 9603	29	29	30	30	29	32	26
SD94-57	33	35	34	26	33	39	28
SD94-215	35	37	35	30	34	41	32
SD94-280	37	37	41	31	35	44	32
SD94-1370	32	32	33	32	32	36	29
SD94-1478	35	37	37	31	36	40	29
SD (ND) 94-9295	32	31	32	27	34	42	27
SD (ND) 94-9388	29	31	29	27	31	35	23

PRELIMINARY TEST I, 1997

SEED QUALITY (score)							
Strain	Mean 6 Tests	Kanawha IA	Poca- hontas IA	Ingham County MI	Lamberton MN	Waseca MN	Brookings SD
IA1006 (BSR)	1.3	1.5	1.0	1.0	1.0	1.0	2.0
Lambert (O)	1.3	1.0	1.0	1.0	1.5	1.5	2.0
Marcus 95 (L)	1.8	2.5	1.5	1.0	2.0	1.5	2.0
Parker (I)	1.6	1.5	1.5	1.0	1.5	2.0	2.0
A96-491024	1.4	1.5	1.0	1.0	1.5	1.5	2.0
A96-491070	1.5	1.0	1.0	1.0	2.0	2.0	2.0
A96-492041	1.5	3.0	1.0	1.0	1.0	1.0	2.0
A96-492058	1.3	1.5	1.0	1.0	1.0	1.5	2.0
A96-492059	1.2	1.0	1.0	1.0	1.0	1.0	2.0
A96-492061	1.3	1.0	1.0	1.0	1.0	1.5	2.0
A96-494017	1.4	1.0	1.0	1.0	1.5	2.0	2.0
A96-494018	1.7	1.0	1.0	1.0	2.0	3.0	2.0
A96-494025	1.5	1.0	1.0	1.0	2.0	2.0	2.0
E95504	1.3	1.5	1.0	1.0	1.5	1.0	2.0
E95505	1.3	1.0	1.0	1.0	1.5	1.5	2.0
E95878	1.3	1.0	1.0	1.0	1.5	1.5	2.0
M88-302032	1.3	1.5	1.0	1.0	1.0	1.5	2.0
M90-165060	1.6	1.5	1.0	1.0	1.0	2.0	3.0
M90-166054	1.6	1.5	1.0	1.0	2.5	1.5	2.0
M90-166068	1.8	1.5	1.5	1.0	2.0	2.5	2.0
M90-178161	1.7	2.0	1.0	1.0	1.0	3.0	2.0
M90-207091	1.3	1.0	1.0	1.0	1.5	1.5	2.0
M90-223088	1.6	1.0	1.0	1.0	1.5	2.0	3.0
M91-113037	1.5	1.5	1.0	1.0	2.0	1.5	2.0
ORC 9601	1.5	1.0	1.0	1.0	1.5	1.5	3.0
ORC 9602	1.3	1.0	1.0	1.0	1.5	1.0	2.0
ORC 9603	1.3	1.5	1.0	1.0	1.5	1.0	2.0
SD94-57	1.8	1.0	1.5	1.0	2.5	2.0	3.0
SD94-215	1.3	1.0	1.0	1.0	1.0	1.5	2.0
SD94-280	2.0	2.5	1.0	1.0	1.5	2.0	4.0
SD94-1370	1.6	1.5	1.0	1.0	1.5	1.5	3.0
SD94-1478	1.7	1.5	1.0	1.0	2.0	2.5	2.0
SD (ND) 94-9295	1.8	2.0	1.5	1.0	2.0	2.0	2.0
SD (ND) 94-9388	1.6	1.0	1.0	1.0	2.0	2.5	2.0

PRELIMINARY TEST I, 1997

SEED SIZE (g/100)

Strain	Mean 6 Tests	Kanawha IA	Poca- hontas IA	Ingham County MI	Lamberton MN	Waseca MN	Brookings SD
IA1006 (BSR)	16.3	16.6	13.6	18.8	17.0	18.2	13.8
Lambert (O)	15.6	15.2	13.8	18.0	14.6	16.0	15.8
Marcus 95 (L)	16.7	17.4	14.8	16.7	17.8	17.8	15.5
Parker (I)	16.9	16.9	14.7	18.6	16.8	17.7	16.4
A96-491024	15.2	15.1	13.3	16.4	15.9	16.3	14.2
A96-491070	17.5	17.6	14.7	19.4	18.6	18.9	15.7
A96-492041	15.8	15.6	13.5	17.9	16.1	16.7	15.2
A96-492058	17.1	16.6	14.0	18.7	18.6	18.2	16.7
A96-492059	16.0	15.7	13.4	18.0	16.3	17.2	15.4
A96-492061	17.1	16.9	14.8	18.1	18.0	18.4	16.4
A96-494017	18.4	17.6	16.6	20.1	18.9	20.0	17.3
A96-494018	16.8	16.2	14.3	18.2	17.5	18.7	15.7
A96-494025	15.5	15.2	12.8	16.9	16.2	17.6	14.1
E95504	20.1	20.8	17.5	21.3	20.8	22.1	18.1
E95505	16.6	17.0	14.5	18.0	17.1	17.8	15.3
E95878	18.1	17.3	15.2	20.6	18.4	19.4	17.7
M88-302032	17.7	16.5	16.0	20.1	18.1	19.1	16.3
M90-165060	15.5	15.4	12.3	17.3	15.4	17.8	14.8
M90-166054	16.8	16.5	14.2	18.4	17.7	18.3	15.6
M90-166068	15.2	15.0	12.2	17.1	16.0	16.9	14.1
M90-178161	14.3	14.3	12.1	15.3	14.4	15.4	14.5
M90-207091	15.3	15.6	13.0	16.7	15.4	17.4	13.9
M90-223088	15.3	15.0	12.0	16.7	15.7	17.5	14.6
M91-113037	16.9	16.7	14.4	18.8	17.0	18.9	15.3
ORC 9601	16.7	14.9	14.1	19.3	15.9	19.9	15.9
ORC 9602	17.8	16.8	15.0	19.9	18.3	20.2	16.5
ORC 9603	15.6	15.9	13.1	17.4	14.9	18.0	14.5
SD94-57	16.2	16.1	14.0	16.6	16.7	19.2	14.4
SD94-215	16.5	15.7	14.4	18.9	17.1	17.6	15.5
SD94-280	16.7	16.8	14.8	17.7	16.7	19.2	15.2
SD94-1370	16.2	15.8	13.1	19.5	16.6	17.1	14.8
SD94-1478	15.3	15.4	13.4	17.2	15.6	17.1	13.2
SD (ND) 94-9295	15.5	15.1	12.8	17.2	15.9	16.8	15.3
SD (ND) 94-9388	15.7	15.6	12.9	17.1	17.3	16.4	15.0

PRELIMINARY TEST I, 1997

PROTEIN (%)

Strain	Mean 5 Tests	Kanawha IA	Pocahontas IA	East Lansing MI	Lamberton MN	Brookings SD
IA1006 (BSR)	39.5	39.0	39.8	41.6	39.0	38.0
Lambert (O)	40.3	39.7	40.9	42.5	38.4	40.0
Marcus 95 (L)	39.1	38.9	39.3	40.7	38.1	38.6
Parker (I)	40.3	39.7	39.8	43.1	39.7	39.1
A96-491024	39.5	37.9	40.0	42.4	38.1	39.0
A96-491070	40.6	40.9	40.2	42.3	39.4	40.0
A96-492041	38.8	39.1	38.9	40.1	37.7	38.0
A96-492058	41.1	40.7	41.3	42.9	40.3	40.4
A96-492059	41.0	40.2	41.0	42.6	40.5	40.7
A96-492061	40.3	40.3	40.0	42.1	39.7	39.6
A96-494017	41.7	40.0	42.4	43.8	41.2	40.9
A96-494018	40.5	39.3	40.4	43.6	39.5	39.9
A96-494025	40.8	39.8	41.2	42.9	40.1	40.0
E95504	39.2	39.8	38.9	40.8	38.5	37.8
E95505	38.8	39.1	38.8	39.7	38.4	37.9
E95878	39.3	40.2	38.6	39.7	39.9	38.1
M88-302032	39.5	38.6	39.6	41.1	39.4	38.8
M90-165060	40.3	40.3	40.1	41.2	40.1	39.8
M90-166054	40.9	41.1	40.5	42.4	40.1	40.4
M90-166068	40.9	41.0	42.1	41.9	39.1	40.6
M90-178161	39.3	40.1	38.8	39.6	40.0	38.0
M90-207091	41.5	41.7	41.8	43.3	40.0	40.7
M90-223088	41.0	40.2	40.7	42.6	41.7	40.0
M91-113037	38.9	38.4	39.9	40.4	37.9	38.0
ORC 9601	41.5	40.4	42.1	42.8	41.1	40.9
ORC 9602	39.5	39.9	38.9	40.6	39.1	39.0
ORC 9603	41.3	42.0	41.4	41.8	40.0	41.1
SD94-57	39.2	39.0	39.8	41.4	37.9	38.0
SD94-215	39.3	39.1	38.1	41.5	39.0	38.7
SD94-280	40.2	40.4	39.7	41.5	39.7	39.6
SD94-1370	40.9	41.1	40.6	42.4	40.3	40.2
SD94-1478	39.7	40.4	39.5	40.3	40.0	38.5
SD (ND) 94-9295	40.0	39.2	39.9	42.2	39.4	39.2
SD (ND) 94-9388	39.0	39.6	38.7	40.4	38.9	37.5

PRELIMINARY TEST I, 1997

Strain	OIL (%)					
	Mean 5 Tests	Kanawha IA	Pocahontas IA	East Lansing MI	Lamberton MN	Brookings SD
IA1006 (BSR)	19.6	19.9	19.4	18.9	19.9	20.0
Lambert (O)	20.5	20.7	20.0	19.6	20.8	21.4
Marcus 95 (L)	20.7	21.2	21.0	19.4	21.0	20.7
Parker (I)	20.0	20.9	20.5	18.7	20.1	19.7
A96-491024	20.8	21.8	21.1	19.0	21.4	20.9
A96-491070	19.9	19.6	20.2	19.2	20.2	20.5
A96-492041	19.8	19.9	20.3	18.8	20.3	19.9
A96-492058	19.4	19.7	19.3	18.0	20.2	19.8
A96-492059	19.4	19.8	19.4	18.5	19.6	19.5
A96-492061	19.6	20.0	19.9	18.7	19.7	19.5
A96-494017	19.7	20.6	19.5	18.2	20.0	20.2
A96-494018	20.0	20.8	20.4	18.1	20.3	20.2
A96-494025	20.0	20.5	20.0	18.6	20.6	20.1
E95504	19.8	20.0	20.3	18.9	20.1	19.6
E95505	19.7	20.3	19.8	19.2	19.8	19.6
E95878	20.6	20.3	21.3	19.3	21.3	20.7
M88-302032	20.0	20.4	20.1	19.1	20.0	20.4
M90-165060	20.0	20.1	19.9	19.6	20.1	20.1
M90-166054	19.3	19.3	19.8	18.5	19.6	19.3
M90-166068	19.1	19.0	18.3	18.8	19.9	19.3
M90-178161	20.5	21.3	20.0	19.9	20.9	20.3
M90-207091	19.9	20.2	20.1	19.0	20.5	19.7
M90-223088	19.8	19.3	19.0	18.2	21.2	21.1
M91-113037	20.0	20.6	19.8	19.1	20.4	20.1
ORC 9601	19.7	20.1	19.8	18.7	19.6	20.2
ORC 9602	20.5	20.6	21.2	19.3	20.8	20.4
ORC 9603	19.6	19.3	20.4	19.2	19.7	19.4
SD94-57	20.5	20.7	20.5	19.7	20.7	20.9
SD94-215	20.3	20.2	21.0	19.5	20.4	20.5
SD94-280	19.7	20.0	19.7	19.2	19.9	19.9
SD94-1370	19.9	20.2	19.9	18.5	20.4	20.7
SD94-1478	19.8	19.5	20.0	19.1	20.3	20.1
SD (ND) 94-9295	20.4	21.1	20.7	19.1	20.4	20.6
SD (ND) 94-9388	20.7	20.7	20.8	20.1	20.7	21.3

Uniform Test II, 1997

Strain	Parentage	Previous Testing	Generation Compositied	Unique Traits
1. IA2008R (BSR)	IA2008 x Archer	UT II 94	BC3F2	Rps1-k, BSR
2. IA2021 (II)	Elgin 87 x Marcus	3	F5	
3. IA2022 (L)	Asgrow A3205 x Dairyland DSR 304	1	F5	
4. IA2036 (SCN)	Jack x A86-301024	1	F5	SCN
5. Marcus 95 (I)	[Marcus (5) x Elgin 87] x [Marcus (5) x Preston BC-11-1]	4	BC4F2	Rps1-k, Rps6
6. A94-673009	Kenwood x Bell	SCN II	F5	SCN
7. A94-674017	Pioneer 9301 x Kenwood	1	F5	
8. A95-485020	(Pioneer 9273 x A13) x Jack	PT IIA	F5	
9. A95-581022	Parker x HS88-4909	PT IIA	F5	
10. A95-581028	Marcus x Pioneer 9273	PT IIA	F5	
11. A95-582004	Parker x Archer	PT IIA	F5	
12. C1937	Burlison x CX1334-323	PT IIB	F5	
13. E93424	Asgrow A2943 x Northrup King S23-12	1	F5	
14. E94172	Hack x AgriPro AP1989	PT IIB	F4	
15. E94487	E90009 x Archer	PT IIB	F4	
16. E94489	E90009 x Archer	PT I	F4	
17. LN92-10507	Jack x A86-303014	SCN II	F5	SCN
18. LN93-13633	Jack x Maple Glen	SCN PII	F5	SCN
19. M90-184101	L85(-558 x M86-1973	SCN II	F5	Rps1, SCN
20. M92-1605	M85-647 x Jack	1	?	SCN
21. M92-1731	Sturdy x Bell	SCN II	F5	Rps1, SCN
22. SD93-522	Glenwood x Jack	1	F5	
23. SD93-828	Parker x Archer	PT IIB	F5	
24. U95-2219	MSBP1	PT IIA	F7	

UNIFORM TEST II, 1997

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	<u>Chlorosis</u>	<u>Emergence</u>	<u>Shattering</u>
		Score Ames	Score Ames	Score Manhattan
IA2008R (BSR)	WGTnDYBfEpI	3.0	3.0	3.0
IA2021 (II)	WTBrSYBlepI	3.6	5.0	2.0
IA2022 (L)	PGBrSYBlepI	4.0	1.0	2.0
IA2036 (SCN)	PGBrSYYepI	4.0	2.0	2.0
Marcus 95 (I)	WTTnDYBfepI	4.1	3.0	2.0
A94-673009	PTTnDYBlepI	3.1	5.0	2.0
A94-674017	PTBrDYBrepI	4.0	3.0	2.0
A95-485020	PG+TBrDYIbepI	2.7	5.0	2.0
A95-581022	PGBrIYGrEpI	3.1	5.0	2.0
A95-581028	WTTnDYLBlEpI	3.8	1.0	2.0
A95-582004	WGBrIYBfEpI	2.1	5.0	4.0
C1937	WTTnDYBlepI	2.0	2.0	2.0
E93424	PGTnIYGrEpI	4.0	2.0	2.0
E94172	WGBrDYLBfepI	3.3	2.0	2.0
E94487	PGBrIYIbepI	3.6	2.0	2.0
E94489	PTTnIYBlepI	4.0	2.0	2.0
LN92-10507	PTTnDYBlepI	3.3	1.0	1.0
LN93-13633	WGBrDY YE pI	3.8	1.0	2.0
M90-184101	WGTnDY YE pI	4.1	3.0	2.0
M92-1605	WGTnDY YE pI	3.6	5.0	2.0
M92-1731	PTTnDYBlepI	3.0	5.0	2.0
SD93-522	WGBrDYBfHI	3.0	1.0	2.0
SD93-828	PGBrDYIbEpI	2.5	2.0	2.0
U95-2219	WGTnDYDBfepI	3.3	1.0	2.0

UNIFORM TEST II, 1997

DISEASE DATA

Strain	<u>BSR Resistance</u>		<u>SCL</u>	<u>PR</u>		<u>Hard Seed</u>	<u>PS</u>	<u>P&SB</u>
	% Incid.	% Sev.	%	Ames Race	Laf. Race	Lafayette		
				4	7	%	a %	n %
IA2008R (BSR)	45.0	8.0	13.5		R	16	26	4
IA2021 (II)	100.0	54.0	31.2		R	38	20	2
IA2022 (L)			1.5		S	6	42	2
IA2036 (SCN)			11.7		R	0	34	2
Marcus 95 (I)			1.2		R	0	60	4
A94-673009	90.0	32.0	4.7	S	R	0	30	0
A94-674017	90.0	37.0	1.0	S	S	0	52	0
A95-485020	95.0	28.0	3.0	S	H	0	54	0
A95-581022	100.0	33.0	12.8	S	S	4	64	0
A95-581028	100.0	39.0	4.0	S	S	24	22	0
A95-582004	35.0	6.0	14.2	S	R	2	18	0
C1937			0.5	S	R	0	26	0
E93424			1.7	S	S	6	34	0
E94172			19.2	S	R	0	60	0
E94487	90.0	29.0	16.7	S	S	0	48	0
E94489	80.0	24.0	1.0	S	S	0	34	0
LN92-10507			6.2	S	R	0	32	2
LN93-13633			15.3	S	R	0	24	0
M90-184101			19.2	S	R	0	24	0
M92-1605			2.2	S	R	0	12	0
M92-1731			6.2	S	S	0	4	0
SD93-522			4.0	S	S	0	46	0
SD93-828	70.0	14.0	25.5	S	R	2	60	0
U95-2219			11.2	S	S	0	24	0

UNIFORM TEST II, 1997

REGIONAL SUMMARY

No. of Tests Strain	Yield	Rank	Maturity	Lodging	Plant Height	Seed Quality	Seed Size	<u>Composition</u>	
	23 bu/a	23 No.	21 Date	23 Score	23 In.	20 Score	21 g/100	Protein 5 %	Oil 5 %
IA2008R (BSR)	52.5	9	2.9	2.2	36	1.7	15.6	39.5	20.1
IA2021 (II)	53.5	6	9/22	1.8	30	1.6	17.9	37.6	21.6
IA2022 (L)	55.3	4	4.9	1.8	37	1.7	15.4	40.4	20.4
IA2036 (SCN)	50.0	20	0.5	2.4	37	1.8	15.4	39.7	19.7
Marcus 95 (I)	47.4	24	-0.9	1.7	30	1.9	17.2	38.8	21.6
A94-673009	52.0	10	2.0	1.9	33	1.8	19.2	40.7	20.9
A94-674017	56.6	1	4.0	1.8	34	1.6	20.6	39.2	20.9
A95-485020	55.7	3	3.2	1.7	32	1.8	16.5	38.7	21.4
A95-581022	54.5	5	4.0	2.5	36	2.0	17.1	39.2	21.0
A95-581028	55.8	2	3.0	1.5	31	1.5	14.7	40.7	21.0
A95-582004	50.5	17	-1.2	1.9	34	1.8	18.0	39.6	20.8
C1937	52.0	10	5.3	1.6	33	1.5	20.0	42.2	19.6
E93424	50.6	15	-2.3	1.4	32	2.3	17.2	40.4	20.4
E94172	50.6	15	3.4	1.5	35	1.7	18.7	38.9	20.6
E94487	52.0	10	4.0	2.1	35	1.8	15.4	38.8	20.6
E94489	48.7	21	0.2	1.3	32	1.5	16.3	40.2	20.5
LN92-10507	52.9	8	5.3	1.6	32	1.5	15.5	39.9	20.0
LN93-13633	51.5	14	5.6	2.7	40	1.5	17.2	39.2	20.6
M90-184101	51.6	13	3.0	2.1	36	2.2	16.6	38.4	20.6
M92-1605	48.3	22	0.5	2.0	35	1.5	15.7	39.8	21.0
M92-1731	47.5	23	-2.4	2.0	34	1.8	17.9	40.9	20.5
SD93-522	50.2	19	2.0	2.1	36	1.6	17.2	39.7	21.1
SD93-828	50.3	18	-1.8	1.6	33	1.8	16.5	39.5	20.8
U95-2219	53.5	6	3.8	2.2	33	1.5	17.5	40.4	20.6

128.0 Days After Planting

UNIFORM TEST II, 1997

1996-1997 2-YEAR MEAN

No. of Tests Strain	Yield	Rank	Maturity	Lodging	Plant Height	Seed Quality	Seed Size	<u>Composition</u>	
	42 bu/a	42 No.	41 Date	43 Score	43 In.	40 Score	41 g/100	Protein 10 %	Oil 10 %
IA2021 (II)	52.7	3	9/23.0	1.7	29	1.5	17.7	39.1	21.8
IA2022 (L)	54.6	2	5.0	1.7	36	1.6	15.3	41.2	20.3
Marcus 95 (I)	48.6	7	-0.6	1.7	30	1.8	17.1	39.9	21.7
A94-674017	56.5	1	3.6	1.7	33	1.5	20.6	40.4	21.0
E93424	50.6	4	-1.8	1.4	31	2.0	17.3	41.0	20.7
M92-1605	49.4	6	0.7	1.9	34	1.5	15.6	41.1	20.9
SD93-522	50.1	5	1.6	2.0	34	1.6	16.9	40.3	21.2

124.8 Days After Planting

UNIFORM TEST II, 1997

YIELD (bu/a)

Strain	Mean 23 Tests	Ames IA	Grand Junction IA	Hubbard IA	Dekalb IL	Dwight IL	Urbana IL
IA2008R (BSR)	52.5	70.4	53.7	56.2	61.7	45.1	52.4
IA2021 (II)	53.5	68.7	57.6	58.1	62.3	43.1	46.4
IA2022 (L)	55.3	73.8	64.6	60.9	68.7	55.0	57.8
IA2036 (SCN)	50.0	65.5	50.5	60.6	61.2	54.8	45.8
Marcus 95 (I)	47.4	66.5	47.5	53.7	55.8	44.7	44.9
A94-673009	52.0	69.4	51.4	61.0	61.9	50.2	50.0
A94-674017	56.6	78.5	55.4	70.9	68.4	56.7	55.7
A95-485020	55.7	73.0	55.8	61.9	66.5	57.2	57.4
A95-581022	54.5	76.1	56.7	63.0	65.7	51.2	59.3
A95-581028	55.8	75.5	60.4	66.3	65.0	48.2	56.3
A95-582004	50.5	70.0	49.1	52.5	59.3	44.6	47.8
C1937	52.0	72.1	49.6	56.3	60.8	45.5	58.1
E93424	50.6	72.0	48.4	60.6	60.5	37.9	47.4
E94172	50.6	72.2	51.0	59.4	61.5	37.8	51.9
E94487	52.0	70.0	62.2	57.1	63.6	47.4	56.7
E94489	48.7	68.0	55.8	51.5	62.2	45.5	49.6
LN92-10507	52.9	70.6	54.1	63.6	68.2	51.5	54.3
LN93-13633	51.5	69.2	51.8	55.5	65.6	52.9	52.3
M90-184101	51.6	75.6	49.0	52.5	62.1	63.1	52.7
M92-1605	48.3	71.6	47.6	53.3	58.3	41.0	44.0
M92-1731	47.5	65.2	44.4	50.3	53.4	50.7	49.7
SD93-522	50.2	73.4	44.8	46.0	59.9	51.9	48.9
SD93-828	50.3	66.9	51.9	56.7	60.3	43.5	47.1
U95-2219	53.5	79.3	48.0	60.1	65.0	51.8	56.3
C.V. (%)		4.2	9.4	8.7	3.5	11.4	5.1
L.S.D. (5%)		5.0	8.2	8.4	3.4	13.9	5.9
Row Sp. (In.)		27	27	27	30	30	30
Rows/Plot		4	4	4	4	4	4
Reps		3	3	3	3	3	3

UNIFORM TEST II, 1997

Strain	YIELD (bu/a)					
	Lafayette IN	Pinney Farm IN	Ingham County MI	Lanawee County MI	Lamberton MN	Waseca MN
IA2008R (BSR)	34.4	46.1	53.4	48.4	55.8	44.9
IA2021 (II)	38.2	45.8	59.3	46.5	61.8	44.9
IA2022 (L)	47.8	41.6	45.9	51.4	59.0	45.6
IA2036 (SCN)	39.5	38.1	46.0	49.8	47.8	40.9
Marcus 95 (I)	36.6	28.9	53.9	41.7	58.3	40.3
A94-673009	45.1	41.5	53.3	51.7	55.1	41.0
A94-674017	45.2	49.8	56.7	51.1	60.8	44.8
A95-485020	41.4	48.4	57.8	45.8	53.7	49.0
A95-581022	44.1	40.5	49.3	47.6	58.8	42.2
A95-581028	41.8	43.8	49.8	49.4	59.3	52.6
A95-582004	31.7	44.0	54.7	53.1	52.8	43.0
C1937	39.8	42.1	49.8	48.4	57.2	41.5
E93424	39.3	34.0	54.2	43.4	53.2	44.7
E94172	35.0	42.3	54.9	54.4	53.4	43.8
E94487	40.2	43.4	45.2	52.6	54.9	43.9
E94489	29.6	30.5	45.9	51.2	56.7	41.4
LN92-10507	36.8	34.6	50.7	53.9	55.8	44.3
LN93-13633	41.0	41.5	49.4	53.1	54.6	31.4
M90-184101	41.4	40.3	41.0	48.1	54.2	40.5
M92-1605	33.4	31.2	50.0	46.1	51.6	35.1
M92-1731	35.9	37.1	51.3	42.2	46.7	39.4
SD93-522	35.7	44.2	47.3	48.3	49.5	37.2
SD93-828	37.5	37.7	54.9	44.8	53.1	42.6
U95-2219	44.8	42.1	45.4	51.1	54.9	39.9
C.V. (%)	11.5	17.4	11.4	5.4	9.5	8.3
L.S.D. (5%)	7.4	11.6	12.2	5.7	8.6	5.7
Row Sp. (In.)	24	26	30	30	10	10
Rows/Plot	4	4	4	4	10	10
Reps	3	3	2	2	3	3

UNIFORM TEST II, 1997

Strain	YIELD (bu/a)				
	Hartington NE	Hildreth NE	McCool Jct. NE	Adelphia NJ	Hoytville OH
IA2008R (BSR)	57.0	63.2	70.6	51.1	50.8
IA2021 (II)	61.9	68.5	72.9	48.3	49.6
IA2022 (L)	62.7	63.1	72.5	47.9	50.7
IA2036 (SCN)	52.2	66.9	62.8	42.1	40.0
Marcus 95 (I)	46.4	62.1	65.0	25.8	45.8
A94-673009	60.4	62.6	71.5	48.3	42.8
A94-674017	57.4	71.8	72.3	48.3	46.9
A95-485020	60.8	71.3	78.5	47.2	51.2
A95-581022	60.3	64.9	74.5	48.3	53.5
A95-581028	61.1	70.5	75.4	49.0	46.8
A95-582004	50.4	66.4	66.1	40.2	48.4
C1937	56.7	65.4	70.3	47.4	46.0
E93424	54.0	63.5	61.9	40.9	46.6
E94172	56.6	65.7	65.5	38.3	48.7
E94487	55.7	65.4	70.3	44.6	50.1
E94489	49.2	67.1	66.5	41.8	45.4
LN92-10507	59.5	64.7	70.0	43.2	44.9
LN93-13633	52.6	70.3	67.6	41.3	41.5
M90-184101	58.0	69.5	70.2	41.3	45.5
M92-1605	55.8	59.7	62.2	41.8	45.4
M92-1731	41.4	62.2	57.2	41.8	41.7
SD93-522	55.2	65.2	63.4	52.5	47.4
SD93-828	48.9	63.3	64.1	37.4	51.1
U95-2219	54.6	78.9	70.4	47.4	53.5
C.V. (%)	7.6	6.0	5.1	12.9	8.8
L.S.D. (5%)	6.9	6.5	5.7	9.5	5.4
Row Sp. (In.)	30	30	30	30	30
Rows/Plot	4	4	4	4	4
Reps	3	3	3	3	3

UNIFORM TEST II, 1997

YIELD (bu/a)

Strain	Wooster OH	Ridgetown Ont.	Woodslee Ont.	Beresford SD	Brookings SD	Arlington WI
IA2008R (BSR)	21.5	62.0	53.6	61.4	40.3	52.8
IA2021 (II)	22.3	64.5	56.8	61.2	42.3	50.2
IA2022 (L)	32.4	59.2	50.7	62.2	42.6	55.4
IA2036 (SCN)	24.2	67.4	49.6	58.8	34.4	50.9
Marcus 95 (I)	16.5	60.1	49.1	57.8	40.4	48.6
A94-673009	25.5	58.4	53.5	54.9	39.6	47.1
A94-674017	23.6	68.8	55.6	62.8	43.3	57.7
A95-485020	23.0	61.1	54.6	65.0	42.3	57.6
A95-581022	26.0	68.2	55.5	58.9	40.9	49.0
A95-581028	25.7	68.5	55.6	66.1	44.8	52.4
A95-582004	18.4	63.4	51.6	61.5	38.8	54.1
C1937	20.2	65.1	51.4	64.1	38.8	48.9
E93424	24.3	65.8	56.9	61.5	37.5	55.3
E94172	19.6	57.9	51.3	58.9	38.9	44.4
E94487	19.2	64.4	48.3	53.9	40.5	47.1
E94489	9.5	65.9	48.8	53.3	33.5	52.0
LN92-10507	21.9	58.8	51.5	64.2	42.3	56.6
LN93-13633	29.6	60.5	52.7	64.6	36.1	49.3
M90-184101	21.0	62.7	54.0	60.0	38.2	45.9
M92-1605	21.0	60.9	51.3	59.5	38.5	50.6
M92-1731	18.1	72.6	49.6	53.3	38.3	49.6
SD93-522	18.9	69.0	52.0	57.3	38.6	48.0
SD93-828	19.9	66.7	51.7	64.8	38.8	52.6
U95-2219	23.1	65.3	51.9	64.3	37.6	44.4
C.V. (%)	16.0	7.0	4.7	7.0	8.7	6.5
L.S.D. (5%)	3.8	7.6	3.4	7.0	5.6	5.4
Row Sp. (In.)	30	17	24	30	30	7.5
Rows/Plot	4	5	4	4	4	11
Reps	3	2	3	3	3	3

UNIFORM TEST II, 1997

YIELD RANK

Strain	Yield Rank	Ames IA	Grand Junction IA	Hubbard IA	Dekalb IL	Dwight IL	Urbana IL
IA2008R (BSR)	9	14	10	16	14	17	11
IA2021 (II)	6	19	4	12	10	21	21
IA2022 (L)	4	6	1	7	1	4	3
IA2036 (SCN)	20	23	15	8	16	5	22
Marcus 95 (I)	24	22	22	18	23	18	23
A94-673009	10	17	13	6	13	12	14
A94-674017	1	2	8	1	2	3	8
A95-485020	3	8	6	5	4	2	4
A95-581022	5	3	5	4	5	10	1
A95-581028	2	5	3	2	7	13	6
A95-582004	17	15	17	20	21	19	18
C1937	10	10	16	15	17	15	2
E93424	15	11	19	8	18	23	19
E94172	15	9	14	11	15	24	13
E94487	10	15	2	13	9	14	5
E94489	21	20	6	22	11	15	16
LN92-10507	8	13	9	3	3	9	9
LN93-13633	14	18	12	17	6	6	12
M90-184101	13	4	18	20	12	1	10
M92-1605	22	12	21	19	22	22	24
M92-1731	23	24	24	23	24	11	15
SD93-522	19	7	23	24	20	7	17
SD93-828	18	21	11	14	19	20	20
U95-2219	6	1	20	10	7	8	6

UNIFORM TEST II, 1997

Strain	YIELD RANK					
	Lafayette IN	Pinney Farm IN	Ingham County MI	Lanawee County MI	Lamberton MN	Waseca MN
IA2008R (BSR)	21	3	9	13	9	4
IA2021 (II)	14	4	1	18	1	4
IA2022 (L)	1	12	20	8	4	3
IA2036 (SCN)	12	17	19	11	23	17
Marcus 95 (I)	17	24	8	24	6	19
A94-673009	3	13	10	7	11	16
A94-674017	2	1	3	1	2	6
A95-485020	7	2	2	20	16	2
A95-581022	5	15	17	17	5	13
A95-581028	6	7	14	12	3	1
A95-582004	23	6	6	4	20	11
C1937	11	11	14	13	7	14
E93424	13	21	7	22	18	7
E94172	20	9	4	2	17	10
E94487	10	8	23	6	12	9
E94489	24	23	20	9	8	15
LN92-10507	16	20	12	3	9	8
LN93-13633	9	14	16	4	14	24
M90-184101	7	16	24	16	15	18
M92-1605	22	22	13	19	21	23
M92-1731	18	19	10	23	24	21
SD93-522	19	5	18	15	22	22
SD93-828	15	18	4	21	19	12
U95-2219	4	10	22	10	12	20

UNIFORM TEST II, 1997

YIELD RANK

Strain	YIELD RANK				
	Hartington NE	Hildreth NE	McCool Jct. NE	Adelphia NJ	Hoytville OH
IA2008R (BSR)	10	19	8	2	5
IA2021 (II)	2	7	4	4	8
IA2022 (L)	1	20	5	8	6
IA2036 (SCN)	19	9	21	14	24
Marcus 95 (I)	23	23	18	24	16
A94-673009	5	21	7	4	21
A94-674017	9	2	6	4	12
A95-485020	4	3	1	11	3
A95-581022	6	15	3	4	1
A95-581028	3	4	2	3	13
A95-582004	20	10	16	21	10
C1937	11	12	11	9	16
E93424	17	17	23	20	14
E94172	12	11	17	22	9
E94487	14	13	10	12	7
E94489	21	8	15	15	18
LN92-10507	7	16	13	13	20
LN93-13633	18	5	14	18	23
M90-184101	8	6	12	18	17
M92-1605	13	24	22	15	18
M92-1731	24	22	24	15	22
SD93-522	15	14	20	1	11
SD93-828	22	18	19	23	4
U95-2219	16	1	9	9	1

UNIFORM TEST II, 1997

YIELD RANK

Strain	Wooster OH	Ridgetown Ont.	Woodslee Ont.	Beresford SD	Brookings SD	Arlington WI
IA2008R (BSR)	13	16	8	12	10	7
IA2021 (II)	11	12	2	13	4	12
IA2022 (L)	1	21	19	9	3	4
IA2036 (SCN)	7	6	21	18	23	10
Marcus 95 (I)	23	20	22	19	9	17
A94-673009	5	23	9	21	11	19
A94-674017	8	3	4	8	2	1
A95-485020	10	17	6	2	5	2
A95-581022	3	5	5	16	7	15
A95-581028	4	4	3	1	1	9
A95-582004	21	14	14	10	13	6
C1937	16	11	16	7	14	16
E93424	6	9	1	10	21	5
E94172	18	24	18	16	12	22
E94487	19	13	24	22	8	19
E94489	24	8	23	23	24	24
LN92-10507	12	22	15	6	5	3
LN93-13633	2	19	10	4	22	14
M90-184101	14	15	7	14	19	21
M92-1605	14	18	17	15	17	11
M92-1731	22	1	20	23	18	13
SD93-522	20	2	11	20	16	18
SD93-828	17	7	13	3	14	8
U95-2219	9	10	12	5	20	22

UNIFORM TEST II, 1997

MATURITY (date)

Strain	Mean 21 Tests	Ames IA	Grand Junction IA	Hubbard IA	Dekalb IL	Dwight IL	Urbana IL
IA2008R (BSR)	2.9	1			6	2	3
IA2021 (II)	9/22	09/12			09/18	09/12	09/08
IA2022 (L)	4.9	5			8	9	5
IA2036 (SCN)	0.5	1			4	4	-5
Marcus 95 (I)	-0.9	-2			-1	2	-2
A94-673009	2.0	2			5	5	1
A94-674017	4.0	5			6	7	5
A95-485020	3.2	2			6	5	1
A95-581022	4.0	5			9	6	5
A95-581028	3.0	2			5	5	3
A95-582004	-1.2	-3			0	0	-3
C1937	5.3	4			7	5	7
E93424	-2.3	-3			0	-1	-4
E94172	3.4	1			6	2	5
E94487	4.0	5			6	6	6
E94489	0.2	1			2	1	1
LN92-10507	5.3	6			9	6	6
LN93-13633	5.6	5			10	9	4
M90-184101	3.0	3			8	7	1
M92-1605	0.5	3			5	-1	-3
M92-1731	-2.4	-3			-1	1	-3
SD93-522	2.0	2			5	5	1
SD93-828	-1.8	-2			0	0	-6
U95-2219	3.8	4			8	9	8
Date Planted	05/17	05/13			05/13	05/07	04/29
Days to Mature	128.0	122			128	128	132

UNIFORM TEST II, 1997

MATURITY (date)

Strain	Lafayette IN	Pinney Farm IN	Ingham County MI	Lanawee County MI	Lamberton MN	Waseca MN
IA2008R (BSR)	-1	1	5	7	4	2
IA2021 (II)	09/11	09/25	09/30	09/30	10/01	09/28
IA2022 (L)	7	0	4	5	4	3
IA2036 (SCN)	3	-1	1	0	3	0
Marcus 95 (I)	0	0	-2	-2	0	-3
A94-673009	2	1	3	1	2	0
A94-674017	5	2	2	5	3	3
A95-485020	4	-2	4	4	3	1
A95-581022	3	2	2	8	3	2
A95-581028	6	1	2	2	2	1
A95-582004	-3	-4	1	-2	-1	-3
C1937	6	4	4	8	4	3
E93424	-3	-4	-4	-3	-1	-7
E94172	5	3	6	5	3	1
E94487	5	3	3	4	5	4
E94489	3	0	0	-3	2	0
LN92-10507	6	5	6	6	5	5
LN93-13633	8	6	5	4	5	6
M90-184101	3	2	3	4	3	-1
M92-1605	0	1	-1	0	1	-1
M92-1731	-2	-6	-3	-2	-1	-9
SD93-522	3	2	4	3	2	-2
SD93-828	-2	-4	0	-4	0	-4
U95-2219	7	0	2	5	5	0
Date Planted	05/15	05/24	05/27	06/10	05/08	05/06
Days to Mature	119	124	126	112	146	145

UNIFORM TEST II, 1997

MATURITY (date)

Strain	MATURITY (date)				
	Hartington NE	Hildreth NE	McCool Jct. NE	Adelphia NJ	Hoytville OH
IA2008R (BSR)	2	9	1	-1	2
IA2021 (II)	09/26	09/20	09/09	10/03	09/29
IA2022 (L)	3	7	6	2	3
IA2036 (SCN)	2	7	1	-4	-1
Marcus 95 (I)	0	-1	0	-3	-1
A94-673009	1	8	6	-1	0
A94-674017	3	8	6	2	5
A95-485020	2	7	5	1	3
A95-581022	3	9	6	0	3
A95-581028	3	7	7	1	1
A95-582004	1	5	-1	-5	1
C1937	2	11	7	3	7
E93424	1	-2	-1	-4	-3
E94172	2	8	6	2	4
E94487	2	9	6	-1	2
E94489	1	2	0	-4	-1
LN92-10507	3	9	6	2	4
LN93-13633	4	9	6	3	4
M90-184101	2	9	2	-3	3
M92-1605	2	8	1	-3	0
M92-1731	-1	3	-1	-7	-3
SD93-522	2	8	1	1	2
SD93-828	1	-2	-1	-4	-2
U95-2219	3	10	1	1	3
Date Planted	05/22	06/02	05/15	06/09	05/11
Days to Mature	127	110	117	116	141

UNIFORM TEST II, 1997

MATURITY (date)

Strain	Wooster OH	Ridgetown Ont.	Woodslee Ont.	Beresford SD	Brookings SD	Arlington WI
IA2008R (BSR)	1	9	1	2	1	3
IA2021 (II)	09/17	09/29	10/05	09/25	09/20	10/01
IA2022 (L)	3	7	4	6	10	2
IA2036 (SCN)	-3	-1	0	1	0	-1
Marcus 95 (I)	-3	1	0	0	-2	0
A94-673009	3	2	0	-1	2	0
A94-674017	2	3	2	4	6	0
A95-485020	5	3	2	4	7	0
A95-581022	0	7	1	5	6	-1
A95-581028	3	3	1	2	5	0
A95-582004	-2	-2	-1	-1	-1	-1
C1937	6	7	3	2	8	4
E93424	-2	-1	-2	-1	0	-4
E94172	1	5	1	1	5	0
E94487	3	6	0	2	6	3
E94489	-1	3	-1	-1	1	-1
LN92-10507	4	7	3	4	6	3
LN93-13633	2	8	2	4	10	3
M90-184101	0	5	2	2	7	0
M92-1605	-3	0	1	1	1	-1
M92-1731	-1	-1	-5	-4	-1	0
SD93-522	-1	3	1	0	1	-1
SD93-828	-2	-2	0	-1	-1	-1
U95-2219	0	3	1	4	5	0
Date Planted	05/07	05/27	06/11	05/10	05/05	05/09
Days to Mature	133	125	116	138	138	145

UNIFORM TEST II, 1997

LODGING (score)

Strain	Mean 23 Tests	Ames IA	Grand Junction IA	Hubbard IA	Dekalb IL	Dwight IL	Urbana IL
IA2008R (BSR)	2.2	1.6	1.6	2.7	2.8	2.7	2.2
IA2021 (II)	1.8	1.2	1.4	2.4	1.2	2.2	1.3
IA2022 (L)	1.8	1.2	1.5	2.0	2.0	2.5	3.0
IA2036 (SCN)	2.4	2.7	1.7	3.2	1.8	3.5	1.7
Marcus 95 (I)	1.7	1.3	1.2	2.0	1.3	2.0	1.8
A94-673009	1.9	1.2	1.3	2.2	2.3	3.7	2.0
A94-674017	1.8	1.3	1.4	2.1	2.2	1.7	1.8
A95-485020	1.7	1.3	1.3	2.2	1.2	2.8	1.8
A95-581022	2.5	1.9	2.0	2.9	3.3	3.3	4.0
A95-581028	1.5	1.1	1.2	1.8	1.8	1.3	1.7
A95-582004	1.9	1.5	1.2	2.5	2.5	2.8	1.0
C1937	1.6	1.0	1.1	1.6	1.2	1.0	1.7
E93424	1.4	1.3	1.2	1.5	1.0	1.2	1.0
E94172	1.5	1.1	1.1	1.9	1.2	1.0	1.5
E94487	2.1	1.5	1.5	2.1	2.0	2.8	2.7
E94489	1.3	1.1	1.1	1.6	1.0	1.0	1.3
LN92-10507	1.6	1.2	1.1	1.8	1.2	2.7	1.3
LN93-13633	2.7	1.9	2.2	3.1	3.2	3.5	3.2
M90-184101	2.1	1.5	1.4	2.5	2.5	2.2	2.5
M92-1605	2.0	1.8	1.4	2.3	2.0	3.3	1.8
M92-1731	2.0	1.6	1.4	2.0	2.3	3.2	2.7
SD93-522	2.1	1.7	1.6	2.9	2.0	2.7	2.2
SD93-828	1.6	1.4	1.4	1.9	1.7	1.7	1.3
U95-2219	2.2	1.4	1.8	2.9	2.3	2.8	2.7

UNIFORM TEST II, 1997

LODGING (score)

Strain	Lafayette IN	Pinney Farm IN	Ingham County MI	Lanawee County MI	Lamberton MN	Waseca MN
IA2008R (BSR)	1.0	1.0	1.5	3.0	3.7	2.0
IA2021 (II)	1.0	1.0	2.0	2.0	3.3	2.3
IA2022 (L)	1.0	1.0	1.5	3.0	3.0	1.7
IA2036 (SCN)	1.5	1.0	3.0	3.0	4.0	3.0
Marcus 95 (I)	1.0	1.0	2.0	3.0	3.0	1.3
A94-673009	1.0	1.0	2.5	3.0	3.0	1.3
A94-674017	1.0	1.0	1.5	3.0	3.0	2.0
A95-485020	1.0	1.0	1.5	2.0	3.3	2.0
A95-581022	1.2	1.0	2.5	3.0	4.0	2.7
A95-581028	1.0	1.0	1.5	2.0	2.7	1.7
A95-582004	1.0	1.0	2.0	2.5	3.0	2.3
C1937	1.0	1.0	1.5	3.0	2.7	2.0
E93424	1.0	1.0	1.0	2.0	2.7	1.7
E94172	1.0	1.0	1.5	2.0	3.0	2.0
E94487	1.3	1.0	2.0	3.0	3.7	2.7
E94489	1.0	1.0	1.0	1.5	2.7	1.3
LN92-10507	1.0	1.0	2.0	2.0	3.3	2.3
LN93-13633	1.8	1.7	2.5	3.5	4.0	3.0
M90-184101	1.0	1.0	2.0	3.0	3.0	2.0
M92-1605	1.0	1.0	2.0	3.0	3.0	2.3
M92-1731	1.0	1.0	1.5	3.0	3.0	2.0
SD93-522	1.0	1.0	2.0	3.0	3.7	2.3
SD93-828	1.0	1.0	1.0	2.0	3.0	2.0
U95-2219	1.2	1.0	2.5	2.5	3.7	2.7

UNIFORM TEST II, 1997

LODGING (score)

Strain	McCool				
	Hartington NE	Hildreth NE	Jct. NE	Adelphia NJ	Hoytville OH
IA2008R (BSR)	2.3	3.0	1.3	2.8	1.6
IA2021 (II)	2.0	2.3	1.3	2.2	1.5
IA2022 (I)	2.3	2.0	1.7	1.8	1.4
IA2036 (SCN)	3.0	3.0	2.3	2.8	2.0
Marcus 95 (I)	2.0	2.7	1.3	2.2	1.5
A94-673009	2.0	2.3	1.0	2.7	1.6
A94-674017	2.3	2.3	1.7	2.3	1.6
A95-485020	2.3	2.0	1.0	2.5	1.3
A95-581022	3.3	3.0	2.0	2.3	2.0
A95-581028	2.0	1.7	1.0	1.8	1.3
A95-582004	2.0	2.3	1.3	2.3	1.6
C1937	2.0	2.7	1.3	2.0	1.5
E93424	1.0	2.3	1.0	1.5	1.3
E94172	2.0	2.0	1.0	1.0	1.4
E94487	2.3	2.7	2.7	1.8	1.7
E94489	2.0	2.0	1.0	1.2	1.2
LN92-10507	2.0	2.3	1.0	1.8	1.4
LN93-13633	3.0	3.3	2.0	2.8	2.2
M90-184101	2.7	3.0	1.7	2.0	2.0
M92-1605	3.0	2.3	1.7	2.8	2.0
M92-1731	1.7	2.3	2.0	3.5	1.3
SD93-522	2.7	2.7	2.0	2.2	1.8
SD93-828	1.7	2.0	1.0	1.5	1.5
U95-2219	2.7	2.3	1.7	2.5	1.6

UNIFORM TEST II, 1997

LODGING (score)

Strain	Wooster OH	Ridgetown Ont.	Woodslee Ont.	Beresford SD	Brookings SD	Arlington WI
IA2008R (BSR)	1.3	2.0	1.7	2.0	3.0	3.3
IA2021 (II)	1.3	1.0	1.0	1.0	2.0	3.7
IA2022 (L)	1.2	1.5	1.3	1.0	2.0	2.3
IA2036 (SCN)	1.3	1.0	2.0	2.0	3.0	3.7
Marcus 95 (I)	1.2	1.0	1.0	1.0	2.0	2.7
A94-673009	1.2	1.0	1.0	1.0	2.0	3.3
A94-674017	1.3	1.0	1.0	2.0	2.0	2.3
A95-485020	1.4	1.0	1.0	1.0	2.0	2.0
A95-581022	1.3	2.0	1.0	2.0	2.0	4.0
A95-581028	1.2	1.0	1.0	1.0	2.0	2.3
A95-582004	1.3	1.0	1.0	2.0	2.0	2.7
C1937	1.3	1.0	1.0	1.0	2.0	2.0
E93424	1.2	1.0	1.0	1.0	1.0	2.7
E94172	1.1	1.5	1.0	1.0	1.0	3.7
E94487	1.4	1.5	1.3	1.0	2.0	3.7
E94489	1.2	1.0	1.0	1.0	2.0	1.7
LN92-10507	1.3	1.0	1.0	1.0	2.0	2.0
LN93-13633	1.2	2.0	1.7	3.0	2.0	4.3
M90-184101	1.2	1.5	1.3	2.0	2.0	3.3
M92-1605	1.1	1.0	1.0	2.0	2.0	2.3
M92-1731	1.2	1.5	1.3	2.0	2.0	3.3
SD93-522	1.2	1.0	1.0	2.0	3.0	3.3
SD93-828	1.2	1.0	1.0	2.0	2.0	3.0
U95-2219	1.3	1.5	1.0	3.0	2.0	4.3

UNIFORM TEST II, 1997

PLANT HEIGHT (inches)

Strain	Mean 23 Tests	Ames IA	Grand Junction IA	Hubbard IA	Dekalb IL	Dwight IL	Urbana IL
IA2008R (BSR)	36	41	37	38	38	43	34
IA2021 (II)	30	36	29	32	30	33	29
IA2022 (L)	37	41	35	37	36	41	35
IA2036 (SCN)	37	43	37	39	36	43	32
Marcus 95 (I)	30	34	27	34	29	33	30
A94-673009	33	39	33	37	34	39	34
A94-674017	34	39	35	36	32	38	32
A95-485020	32	37	31	36	32	38	31
A95-581022	36	43	36	39	39	41	34
A95-581028	31	38	32	35	33	37	31
A95-582004	34	39	33	37	34	40	35
C1937	33	38	31	36	33	37	33
E93424	32	37	32	34	33	37	30
E94172	35	40	33	36	38	41	32
E94487	35	40	36	36	37	42	34
E94489	32	41	34	34	35	38	29
LN92-10507	32	37	28	34	33	37	29
LN93-13633	40	48	41	44	42	49	40
M90-184101	36	42	34	38	38	41	33
M92-1605	35	42	34	36	37	42	31
M92-1731	34	40	31	34	35	39	32
SD93-522	36	42	34	37	39	41	33
SD93-828	33	36	29	37	34	37	31
U95-2219	33	38	33	36	34	40	34

UNIFORM TEST II, 1997

PLANT HEIGHT (inches)

Strain	Lafayette IN	Pinney Farm IN	Ingham County MI	Lanawee County MI	Lamberton MN	Waseca MN
IA2008R (BSR)	33	35	38	33	43	43
IA2021 (II)	26	30	26	28	35	41
IA2022 (L)	32	34	35	36	43	46
IA2036 (SCN)	32	35	35	35	44	54
Marcus 95 (I)	27	29	29	29	36	42
A94-673009	30	31	33	31	40	44
A94-674017	30	32	34	32	40	44
A95-485020	29	32	31	30	38	44
A95-581022	31	33	37	33	44	47
A95-581028	28	30	28	30	37	40
A95-582004	30	33	31	33	41	45
C1937	28	31	33	34	38	47
E93424	28	31	29	28	39	43
E94172	30	32	30	32	41	48
E94487	30	33	33	34	41	45
E94489	28	30	30	29	40	37
LN92-10507	26	30	33	32	41	44
LN93-13633	37	38	39	38	44	53
M90-184101	30	33	34	35	42	49
M92-1605	32	31	30	34	43	46
M92-1731	28	32	37	30	42	44
SD93-522	32	36	36	39	44	43
SD93-828	29	31	33	31	41	44
U95-2219	29	31	31	28	39	45

UNIFORM TEST II, 1997

PLANT HEIGHT (inches)

Strain	Hartington NE	Hildreth NE	McCool	Adelphia NJ	Hoytville OH
			Jct. NE		
IA2008R (BSR)	38	44	38	30	30
IA2021 (II)	31	34	31	23	29
IA2022 (L)	39	43	36	31	33
IA2036 (SCN)	41	40	36	29	32
Marcus 95 (I)	31	37	32	21	27
A94-673009	34	39	34	27	29
A94-674017	34	36	35	27	30
A95-485020	37	38	34	27	26
A95-581022	41	42	36	25	32
A95-581028	35	37	33	26	26
A95-582004	38	42	37	24	28
C1937	34	39	32	25	29
E93424	33	39	32	26	27
E94172	39	46	37	26	31
E94487	38	38	40	28	31
E94489	34	39	35	26	26
LN92-10507	35	34	34	24	26
LN93-13633	45	43	41	31	35
M90-184101	40	44	36	26	32
M92-1605	39	41	35	28	33
M92-1731	35	40	34	28	26
SD93-522	37	45	34	28	32
SD93-828	35	39	36	25	30
U95-2219	37	41	35	26	25

UNIFORM TEST II, 1997

PLANT HEIGHT (inches)

Strain	Wooster OH	Ridgetown Ont.	Woodslee Ont.	Beresford SD	Brookings SD	Arlington WI
IA2008R (BSR)	19	39	28	38	39	37
IA2021 (I ₁)	17	30	23	30	28	37
IA2022 (L)	22	42	32	36	39	42
IA2036 (SCN)	19	37	27	40	36	41
Marcus 95 (I)	15	32	23	29	30	34
A94-673009	19	36	27	32	32	36
A94-674017	21	36	27	33	34	35
A95-485020	15	34	26	35	32	34
A95-581022	17	40	29	33	33	36
A95-581028	17	33	24	29	30	34
A95-582004	17	35	25	43	29	37
C1937	18	34	27	33	30	36
E93424	17	30	26	32	29	35
E94172	17	40	26	34	31	39
E94487	17	38	26	31	32	35
E94489	16	31	27	30	28	35
LN92-10507	16	35	25	27	30	37
LN93-13633	23	38	33	44	38	41
M90-184101	19	40	28	36	31	37
M92-1605	19	31	26	35	37	37
M92-1731	18	37	28	35	32	34
SD93-522	17	38	22	39	35	37
SD93-828	18	34	24	37	32	37
U95-2219	16	34	27	32	31	36

UNIFORM TEST II, 1997

SEED QUALITY (score)

Strain	Mean 20 Tests	Ames IA	Grand Junction IA	Hubbard IA	Dekalb IL	Dwight IL	Urbana IL
IA2008R (BSR)	1.7	1.0	2.0	1.0	1.2	1.3	1.3
IA2021 (II)	1.6	1.5	1.5	1.0	1.2	1.2	1.4
IA2022 (L)	1.7	1.5	1.5	1.0	1.2	1.3	1.7
IA2036 (SCN)	1.8	1.5	1.5	1.0	1.6	1.3	1.4
Marcus 95 (I)	1.9	2.0	2.0	1.5	1.2	1.6	1.6
A94-673009	1.8	1.5	1.5	1.0	1.2	1.7	1.9
A94-674017	1.6	2.0	1.0	1.0	1.4	1.2	1.4
A95-485020	1.8	1.0	1.5	1.5	1.2	1.3	1.4
A95-581022	2.0	1.0	1.5	1.0	1.5	1.5	1.6
A95-581028	1.5	2.0	1.0	1.0	1.2	1.2	1.5
A95-582004	1.8	1.0	1.0	1.0	1.4	1.3	1.8
C1937	1.5	1.0	1.5	1.0	1.3	1.3	1.3
E93424	2.3	2.5	1.0	2.0	1.6	1.4	1.7
E94172	1.7	1.5	1.5	1.0	1.2	1.5	1.9
E94487	1.8	1.5	1.5	2.0	1.4	1.4	1.3
E94489	1.5	1.5	1.5	1.0	1.2	1.3	1.3
LN92-10507	1.5	2.0	1.5	1.0	1.2	1.2	1.3
LN93-13633	1.5	1.5	1.0	1.0	1.3	1.3	1.4
M90-184101	2.2	2.5	2.0	1.5	1.9	2.3	1.8
M92-1605	1.5	1.5	1.0	1.0	1.7	1.2	1.3
M92-1731	1.8	2.5	1.0	1.5	1.2	1.6	1.5
SD93-522	1.6	1.0	1.0	1.0	1.3	1.5	1.4
SD93-828	1.8	2.5	1.0	1.0	1.2	1.3	1.7
U95-2219	1.5	1.0	1.0	1.0	1.2	1.2	1.3

UNIFORM TEST II, 1997

SEED QUALITY (score)

Strain	Lafayette IN	Pinney Farm IN	Ingham County MI	Lanawee County MI	Lamberton MN	Waseca MN
IA2008R (BSR)	1.0	1.0	1.0	2.0	2.0	2.3
IA2021 (II)	1.0	1.0	1.0	2.0	2.3	1.3
IA2022 (L)	1.0	1.0	1.0	2.0	1.7	1.0
IA2036 (SCN)	1.0	1.0	2.0	1.0	1.3	2.0
Marcus 95 (I)	1.0	1.0	1.0	2.0	1.0	1.7
A94-673009	2.0	2.0	1.0	2.0	1.3	1.3
A94-674017	1.0	1.0	1.0	1.0	1.0	1.3
A95-485020	1.0	1.0	1.0	2.0	1.7	2.0
A95-581022	1.0	1.0	1.0	2.0	1.3	2.3
A95-581028	1.0	1.0	1.0	2.0	1.0	1.7
A95-582004	1.0	1.0	1.0	2.0	2.7	2.7
C1937	1.0	1.0	1.0	1.0	1.3	2.0
E93424	2.0	1.0	1.0	2.0	2.3	1.7
E94172	1.0	1.0	1.0	2.0	1.7	1.7
E94487	2.0	1.0	1.0	2.0	1.7	1.3
E94489	2.0	1.0	1.0	2.0	1.3	1.3
LN92-10507	1.0	1.0	1.0	1.0	2.0	1.0
LN93-13633	1.0	1.0	1.0	1.0	1.7	1.0
M90-184101	1.0	1.0	2.0	2.0	2.7	3.3
M92-1605	1.0	1.0	1.0	1.0	1.3	2.3
M92-1731	1.0	1.0	1.0	1.0	2.0	2.0
SD93-522	1.0	1.0	1.0	2.0	2.0	1.7
SD93-828	1.0	1.0	1.0	2.0	1.7	2.3
U95-2219	1.0	1.0	1.0	1.0	1.3	1.7

UNIFORM TEST II, 1997

SEED QUALITY (score)

Strain	Hartington NE	Hildreth NE	McCool	Adelphia NJ	Hoytville OH
			Jct. NE		
IA2008R (BSR)	1.7	2.3	2.0		2.5
IA2021 (II)	2.0	1.3	1.7		2.0
IA2022 (L)	2.3	1.7	1.7		3.0
IA2036 (SCN)	2.7	2.0	2.0		2.5
Marcus 95 (I)	2.0	2.0	2.0		3.0
A94-673009	2.3	2.3	2.3		3.0
A94-674017	2.7	2.0	2.0		2.0
A95-485020	2.7	2.0	2.0		2.5
A95-581022	2.7	2.3	2.0		2.5
A95-581028	2.0	1.7	1.3		2.0
A95-582004	2.7	2.3	1.7		3.0
C1937	2.7	2.0	2.0		2.0
E93424	3.7	2.3	2.3		4.0
E94172	2.0	2.3	1.3		2.5
E94487	1.7	2.0	2.3		2.5
E94489	2.3	1.7	2.0		1.5
LN92-10507	2.3	2.0	2.0		2.0
LN93-13633	2.3	2.0	1.7		3.0
M90-184101	2.7	2.0	2.0		3.0
M92-1605	2.3	2.0	2.0		1.5
M92-1731	2.3	2.3	2.0		2.0
SD93-522	2.3	2.0	2.0		2.0
SD93-828	2.0	1.7	2.0		2.5
U95-2219	2.0	1.7	2.0		3.0

UNIFORM TEST II, 1997

SEED QUALITY (score)

Strain	Wooster OH	Ridgetown Ont.	Woodslee Ont.	Beresford SD	Brookings SD	Arlington WI
IA2008R (BSR)	1.5		2.0	3.0	2.0	
IA2021 (II)	1.5		1.3	3.0	2.0	
IA2022 (I)	1.5		1.0	4.0	2.0	
IA2036 (SCN)	1.5		2.0	5.0	2.0	
Marcus 95 (I)	1.5		3.0	4.0	2.0	
A94-673009	1.5		1.0	4.0	2.0	
A94-674017	1.0		2.0	4.0	2.0	
A95-485020	1.5		2.0	4.0	3.0	
A95-581022	1.5		2.0	5.0	5.0	
A95-581028	1.0		2.0	3.0	2.0	
A95-582004	1.5		2.0	4.0	1.0	
C1937	1.0		1.0	3.0	2.0	
E93424	1.5		2.3	5.0	4.0	
E94172	1.5		1.3	3.0	3.0	
E94487	1.5		2.0	4.0	2.0	
E94489	1.5		1.0	3.0	1.0	
LN92-10507	1.0		1.3	2.0	2.0	
LN93-13633	1.5		1.0	3.0	2.0	
M90-184101	1.5		3.0	4.0	2.0	
M92-1605	1.0		1.0	3.0	2.0	
M92-1731	1.5		1.7	4.0	2.0	
SD93-522	1.5		1.7	3.0	2.0	
SD93-828	1.5		1.7	4.0	2.0	
U95-2219	1.5		1.7	3.0	2.0	

UNIFORM TEST II, 1997

SEED SIZE (g/100)

Strain	Mean 21 Tests	Ames IA	Grand Junction IA	Hubbard IA	Dekalb IL	Dwight IL	Urbana IL
IA2008R (BSR)	15.6	12.8	14.9	14.1	18.3	13.7	14.5
IA2021 (II)	17.9	15.5	16.6	16.3	19.8	16.6	16.2
IA2022 (L)	15.4	14.2	15.2	13.9	17.1	15.0	14.1
IA2036 (SCN)	15.4	14.3	15.0	14.6	16.8	14.3	13.6
Marcus 95 (I)	17.2	16.0	16.5	16.3	19.8	15.2	14.5
A94-673009	19.2	16.8	18.0	18.4	21.5	18.7	16.8
A94-674017	20.6	18.6	19.2	20.3	22.9	19.1	20.3
A95-485020	16.5	15.1	15.7	15.1	19.4	14.9	14.9
A95-581022	17.1	16.3	17.3	16.3	20.6	14.6	16.3
A95-581028	14.7	13.5	13.5	13.8	16.4	11.6	13.2
A95-582004	18.0	16.3	16.8	16.6	19.4	15.1	15.5
C1937	20.0	18.4	18.7	19.7	21.6	15.7	19.0
E93424	17.2	15.9	16.2	16.1	19.9	14.1	16.5
E94172	18.7	17.5	17.4	18.1	21.0	12.9	17.9
E94487	15.4	14.3	14.7	15.3	18.2	11.9	15.1
E94489	16.3	15.1	15.8	15.8	20.2	10.8	15.6
LN92-10507	15.5	13.7	15.2	15.1	17.3	12.4	15.1
LN93-13633	17.2	15.7	16.5	16.3	20.5	14.9	14.8
M90-184101	16.6	15.7	16.3	15.1	19.6	16.3	14.9
M92-1605	15.7	14.7	14.4	15.1	17.3	12.6	13.9
M92-1731	17.9	15.4	16.1	16.6	19.0	15.2	16.5
SD93-522	17.2	15.6	15.1	14.7	20.0	14.7	15.3
SD93-828	16.5	14.2	15.4	14.5	19.2	16.0	14.3
U95-2219	17.5	16.1	16.8	16.8	20.1	18.9	16.9

UNIFORM TEST II, 1997

SEED SIZE (g/100)

Strain	Lafayette IN	Pinney Farm IN	Ingham County MI	Lanawee County MI	Lamberton MN	Waseca MN
IA2008R (BSR)	13.5	15.1	17.6	15.4	15.3	16.2
IA2021 (II)	15.0	17.4	19.3	19.6	19.0	18.2
IA2022 (L)	14.6	13.7	14.9	16.1	16.2	15.6
IA2036 (SCN)	13.7	14.8	16.1	16.5	16.4	15.2
Marcus 95 (I)	14.9	17.3	18.7	18.8	18.2	17.2
A94-673009	16.3	18.5	19.6	20.4	20.9	19.6
A94-674017	18.8	20.2	19.3	21.6	22.6	21.5
A95-485020	14.3	15.7	17.7	16.9	16.9	16.7
A95-581022	17.0	16.5	15.2	16.4	16.8	16.8
A95-581028	13.0	14.0	15.3	15.0	15.6	16.0
A95-582004	14.4	18.0	20.0	20.6	19.0	17.6
C1937	17.8	19.6	22.9	21.6	21.8	21.9
E93424	15.7	17.1	18.6	17.9	18.2	17.6
E94172	17.0	18.2	19.7	19.8	20.4	18.4
E94487	14.2	14.6	15.6	15.6	16.5	17.4
E94489	15.2	17.2	16.2	17.7	17.7	16.9
LN92-10507	13.6	14.6	15.7	16.5	17.0	16.1
LN93-13633	14.9	17.8	17.6	19.3	17.1	17.1
M90-184101	15.0	15.7	15.3	16.9	16.3	16.8
M92-1605	13.1	15.5	18.5	16.1	16.7	16.2
M92-1731	15.8	17.8	19.0	20.4	19.2	19.6
SD93-522	14.6	16.6	17.7	18.6	19.6	17.3
SD93-828	14.3	15.9	16.7	17.7	18.6	16.1
U95-2219	16.8	16.6	16.9	18.1	16.2	17.5

UNIFORM TEST II, 1997

SEED SIZE (g/100)

Strain	SEED SIZE (g/100)				
	Hartington NE	Hildreth NE	McCool Jct. NE	Adelphia NJ	Hoytville OH
IA2008R (BSR)	14.5	18.0	16.1		16.7
IA2021 (II)	16.5	19.6	18.9		19.6
IA2022 (L)	14.4	17.8	16.3		15.7
IA2036 (SCN)	14.6	18.5	16.9		15.8
Marcus 95 (I)	16.4	18.2	19.2		17.2
A94-673009	18.4	20.6	19.4		20.6
A94-674017	19.8	23.3	21.5		21.7
A95-485020	16.0	18.3	17.0		18.3
A95-581022	16.3	19.5	19.2		18.4
A95-581028	14.7	16.4	15.6		15.7
A95-582004	17.1	21.1	20.0		18.8
C1937	19.1	22.6	20.6		18.4
E93424	16.3	18.9	18.3		16.3
E94172	17.8	20.8	20.3		21.0
E94487	14.9	17.0	15.6		17.9
E94489	17.0	18.3	16.4		15.1
LN92-10507	15.1	17.2	15.7		14.9
LN93-13633	15.6	20.1	17.1		16.9
M90-184101	15.8	19.1	17.9		16.8
M92-1605	16.1	17.7	16.2		16.4
M92-1731	17.0	20.6	18.1		18.6
SD93-522	16.1	18.7	18.2		18.2
SD93-828	16.2	18.7	18.0		17.5
U95-2219	15.4	22.0	18.6		17.8

UNIFORM TEST II, 1997

SEED SIZE (g/100)

Strain	Wooster OH	Ridgetown Ont.	Woodslee Ont.	Beresford SD	Brookings SD	Arlington WI
IA2008R (BSR)	16.6	18.7	17.6	14.7	12.8	
IA2021 (II)	19.0	19.3	22.3	15.5	16.1	
IA2022 (L)	16.2	16.9	17.7	14.5	12.8	
IA2036 (SCN)	14.3	16.7	17.7	14.3	13.6	
Marcus 95 (I)	15.8	18.7	20.5	16.0	16.2	
A94-673009	20.2	20.4	23.1	18.6	16.7	
A94-674017	19.2	20.7	23.6	19.7	17.9	
A95-485020	16.9	16.9	19.6	15.2	14.4	
A95-581022	18.7	18.6	19.2	15.8	14.2	
A95-581028	16.0	15.6	18.0	13.4	13.4	
A95-582004	17.1	19.3	21.7	16.7	16.1	
C1937	19.8	21.2	22.3	18.3	18.6	
E93424	17.8	18.4	20.7	15.5	16.1	
E94172	18.6	18.9	22.0	17.1	17.0	
E94487	16.6	14.1	17.2	13.9	13.3	
E94489	15.0	16.3	18.6	15.7	16.7	
LN92-10507	15.9	17.1	18.4	15.5	13.9	
LN93-13633	17.8	19.0	19.4	16.7	15.6	
M90-184101	15.6	18.8	19.7	16.0	15.6	
M92-1605	14.8	17.3	19.1	15.1	13.6	
M92-1731	18.4	20.0	21.0	16.2	15.7	
SD93-522	18.0	19.3	21.3	15.8	16.1	
SD93-828	17.6	17.1	18.6	15.3	13.7	
U95-2219	17.8	19.4	18.5	16.1	14.9	

UNIFORM TEST II, 1997

PROTEIN (%)

Strain	Mean 5 Tests	Ames IA	Urbana IL	Lafayette IN	Lincoln NE	Lamberton MN
IA2008R (BSR)	39.5	38.0	40.7	38.1	40.9	39.8
IA2021 (II)	37.6	37.6	37.3	36.9	38.3	37.9
IA2022 (L)	40.4	40.4	38.5	40.3	41.5	41.1
IA2036 (SCN)	39.7	39.7	38.2	39.9	41.0	39.9
Marcus 95 (I)	38.8	39.7	37.6	37.9	39.4	39.5
A94-673009	40.7	40.5	39.6	39.6	41.3	42.4
A94-674017	39.2	38.5	39.7	38.8	40.8	38.1
A95-485020	38.7	39.0	37.5	38.4	40.4	38.4
A95-581022	39.2	38.8	38.3	38.7	41.1	39.2
A95-581028	40.7	40.7	38.9	40.6	42.2	41.3
A95-582004	39.6	40.2	39.5	37.6	41.1	39.7
C1937	42.2	41.9	41.2	43.1	41.5	43.2
E93424	40.4	40.4	39.1	37.9	43.8	40.9
E94172	38.9	38.5	37.4	38.0	39.9	40.6
E94487	38.8	38.7	36.8	39.8	39.5	39.1
E94489	40.2	41.5	38.3	40.1	40.3	40.8
LN92-10507	39.9	39.4	38.7	39.6	41.7	40.1
LN93-13633	39.2	39.6	36.8	38.9	41.1	39.6
M90-184101	38.4	38.7	36.7	38.4	40.6	37.8
M92-1605	39.8	40.5	38.3	40.0	39.8	40.5
M92-1731	40.9	41.1	39.9	40.9	41.8	41.0
SD93-522	39.7	38.8	37.5	38.7	42.5	40.9
SD93-828	39.5	38.6	39.1	38.4	41.3	40.2
U95-2219	40.4	40.9	40.7	41.7	40.0	38.7

UNIFORM TEST II, 1997

OIL (%)

Strain	Mean 5 Tests	Ames IA	Urbana IL	Lafayette IN	Lincoln NE	Lamberton MN
IA2008R (BSR)	20.1	20.5	20.1	21.3	19.1	19.3
IA2021 (II)	21.6	21.7	21.9	22.7	20.8	20.9
IA2022 (L)	20.4	19.6	24.2	19.8	19.4	19.0
IA2036 (SCN)	19.7	19.8	21.9	19.7	18.6	18.3
Marcus 95 (I)	21.6	21.2	22.7	22.4	20.8	20.7
A94-673009	20.9	20.9	22.3	21.2	19.7	20.3
A94-674017	20.9	21.6	22.2	22.0	20.3	18.6
A95-485020	21.4	21.3	23.3	21.8	20.4	20.4
A95-581022	21.0	20.8	22.0	21.7	20.3	20.0
A95-581028	21.0	21.0	22.6	21.2	19.5	20.5
A95-582004	20.8	20.5	21.6	21.8	20.5	19.8
C1937	19.6	19.2	20.9	19.7	19.9	18.3
E93424	20.4	20.7	21.5	21.8	18.3	19.7
E94172	20.6	20.6	22.2	21.4	19.3	19.6
E94487	20.6	20.4	22.5	20.8	19.8	19.4
E94489	20.5	20.4	22.4	20.4	19.5	19.6
LN92-10507	20.0	20.1	21.6	20.5	19.2	18.4
LN93-13633	20.6	20.7	22.9	21.3	18.5	19.4
M90-184101	20.6	20.4	22.5	21.2	19.5	19.5
M92-1605	21.0	20.5	23.1	21.4	19.3	20.5
M92-1731	20.5	20.2	21.7	21.1	20.0	19.6
SD93-522	21.1	21.6	22.9	22.3	19.3	19.4
SD93-828	20.8	20.7	21.7	21.8	19.8	19.8
U95-2219	20.6	20.5	21.5	20.8	20.1	20.2

Preliminary Test IIA

	Strain	Parentage	Generation Composited	Unique Traits
1.	IA2008R (BSR)	IA2008(4) x Archer	BC3 F2	BSR
2.	IA2021 (II)	Elgin x Marcus 95	F5	
3.	IA2022 (L)	Asgrow A3205 x Dairyland DSR 304	F5	
4.	Marcus 95 (I)	[Marcus (5) x Elgin 87] x [Marcus (5) x Preston BC-11-1]	BC4F2	Rps1-k, Rps6
5.	A96-492060	IA3003 x Northrup King S24-92	F5	
6.	A96-591033	IA3003 x Pioneer 9273	F5	
7.	A96-591037	IA3003 x Northrup King S24-92	F5	
8.	A96-591071	IA3003 x Northrup King S24-92	F5	
9.	A96-591076	Pioneer 9273 x Northrup King S24092	F5	
10.	A96-597010	A91-501002 x IA3003	F5	
11.	A96-597011	IA3003 x IA3004	F5	BSR
12.	A96-597021	IA3003 x IA3004	F5	BSR
13.	A96-691030	AgriPro AP3035 x Pioneer 9273	F5	
14.	C1944	CRS3-998-24-1 x HC85-2206	F5	
15.	C1946	C1742 x (PI 427.088D x A86-301024)	F5	
16.	C1949	C1813 x C1727	F5	
17.	C1950	CRS3-998-24-1 x C1813	F5	
18.	C1954	CRS3-998-24-1 x Corsica	F5	
19.	C1955	HC86-4367 x CRS3-998-24-1	F5	
20.	C1959	HS88-4909 x HC85-2206	F5	
21.	C1963	HC86-4367 x HS88-4909	F5	
22.	E95114	C1979 x IA2007	F5	
23.	E95147	Pioneer 9273 x Northrup King S19-90	F5	
24.	E95151	Pioneer 9273 x Northrup King S19-90	F5	
25.	E95153	Pioneer 9273 x Northrup King S19-90	F5	
26.	E95184	Pioneer 9273 x Northrup King S19-90	F5	
27.	E95278	Asgrow A2234 x Pioneer 9273	F5	
28.	E95327	C1817 x Pioneer 9273	F5	
29.	E95395	LN86-983 x C1817	F5	
30.	E95561	Asgrow A2396 x Northrup King S19-90	F5	
31.	E95562	Asgrow A2396 x Northrup King S19-90	F5	
32.	E95644	Felix x IA2007	F5	
33.	E95653	Felix x IA2007	F5	
34.	E95655	Felix x IA2007	F5	
35.	E95882	Felix x Northrup King S19-90	F5	
36.	HS94-4260	HS88-4909 x HS88-4970	F5	Rps1-k
37.	HS94-4287	Dairyland DSR 290 x HS88-4988	F5	Rps3

PRELIMINARY TEST IIA, 1997

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	<u>Chlorosis</u>	<u>Shattering</u>	<u>BSR Resistance</u>	
		Score Ames	Score Manhattan	% Incid.	% Sev.
IA2008R (BSR)	WGTnDYBfEpI	1.8	3.0	45.0	8.0
IA2021 (II)	WTBrSYBlepI	3.1	2.0	100.0	54.0
IA2022 (L)	PGBrSYBlepI	3.3	2.0		
Marcus 95 (I)	WTTnDYBfepI	3.6	2.0		
A96-492060	PTBrIYBlepI	2.8	2.0		
A96-591033	PTBrSYBlepI	2.1	2.0	55.0	9.0
A96-591037	PTBrDYBlepI	2.3	2.0	90.0	25.0
A96-591071	PTBrIYBlepI	2.6	3.0	95.0	21.0
A96-591076	PTBrDYBlepI	3.5	2.0	90.0	45.0
A96-597010	PGBrSYIbEpI	2.5	2.0	85.0	23.0
A96-597011	PTBrSYBlepI	2.6	4.0	95.0	27.0
A96-597021	PTBrDYBlepI	3.6	3.0	45.0	8.0
A96-691030	PTBrSYBlepI	2.2	2.0	75.0	26.0
C1944	PGTnSYIbepI	2.2	2.0		
C1946	WTBrSYBlepI	2.8	2.0		
C1949	PTTnSYBlepI	2.3	3.0		
C1950	PTBrSYBlepI	2.5	2.0		
C1954	PTTnSYBlepI	2.8	2.0		
C1955	PG+TTnSYHepI	2.8	1.0		
C1959	PTBrDYBrEpI	2.1	2.0		
C1963	PTBrSYBlepI	2.8	2.0		
E95114	PTBrDYBrepI	2.1	2.0		
E95147	PTBrSYBlepI	2.3	2.0		
E95151	PTBrSYBlepI	2.2	2.0		
E95153	PTBrSYBlepI	2.3	2.0		
E95184	PTBrIYBlepI	3.1	2.0		
E95278	PTBrIYBlepI	2.0	2.0		
E95327	PTBrIYBlepI	3.0	2.0		
E95395	PGBrIYIbepI	1.7	2.0	100.0	36.0
E95561	PTTnSYBlepI	2.3	2.0		
E95562	PGBrIYGrepI	3.2	1.0		
E95644	PGBrIYIbepI	3.2	2.0		
E95653	PGBrIYIbHI	3.2	2.0		
E95655	PGBrIYBfHI	2.6	2.0		
E95882	PGTnSYGrEpI	2.2	2.0		
HS94-4260	PGBrSYBfEpI	3.6	2.0		
HS94-4287	P+WTTnSYBlepI	2.2	2.0		

PRELIMINARY TEST IIA, 1997

DISEASE DATA

Strain	PR		Hard Seed	PS	P&SB
	Ames	Lafayette	Lafayette	a	n
	Race	Race			
	4	7	%	%	%
IA2008R (BSR)		R	16	26	4
IA2021 (II)		R	38	20	2
IA2022 (L)		S	6	42	2
Marcus 95 (I)		R	0	60	4
A96-492060	S	S	0	24	0
A96-591033	S	S	6	16	0
A96-591037	S	S	0	14	0
A96-591071	S	S	0	24	0
A96-591076	S	S	0	26	2
A96-597010	S	S	0	40	0
A96-597011	S	S	0	2	0
A96-597021	S	S	0	0	0
A96-691030	S	S	0	10	0
C1944	S	R	0	38	0
C1946	S	S	0	12	0
C1949	S	R	2	36	0
C1950	S	S	0	18	0
C1954	S	S	6	10	4
C1955	S	R	2	14	0
C1959	S	R	0	30	6
C1963	S	R	0	30	16
E95114	S	H	0	56	2
E95147	S	S	0	44	0
E95151	S	S	6	30	0
E95153	S	S	6	26	4
E95184	S	S	0	38	0
E95278	S	S	0	10	0
E95327	S	S	4	22	0
E95395	S	R	0	16	0
E95561	S	R	2	20	0
E95562	S	R	0	10	0
E95644	S	R	6	52	0
E95653	S	R	4	50	0
E95655	S	R	0	22	0
E95882	S	H	8	2	0
HS94-4260	R	R	0	28	0
HS94-4287	R	S	0	4	0

PRELIMINARY TEST IIA, 1997

REGIONAL SUMMARY

No. of Tests Strain	Yield 12 bu/a	Rank 12 No.	Maturity 11 Date	Lodging 12 Score	Plant Height 12 In.	Seed Quality 11 Score	Seed Size 11 g/100	<u>Composition</u>	
								Protein 5 %	Oil 5 %
IA2008R (BSR)	54.4	24	1.7	2.1	35	1.8	14.6	39.4	20.5
IA2021 (II)	54.0	25	9/22	1.8	29	1.6	17.3	37.8	21.9
IA2022 (L)	57.3	10	5.5	1.6	36	1.7	15.1	40.9	19.9
Marcus 95 (I)	50.4	33	-1.7	1.7	28	2.0	17.5	39.4	21.4
A96-492060	53.2	26	0.4	1.4	28	1.6	18.0	40.8	20.1
A96-591033	58.3	5	2.0	1.3	32	1.6	19.1	41.2	20.0
A96-591037	55.4	20	-0.3	1.6	29	1.7	18.3	40.2	19.7
A96-591071	56.5	17	1.3	1.4	31	1.6	17.8	40.9	20.5
A96-591076	58.0	6	4.4	1.2	32	1.6	15.7	41.1	20.5
A96-597010	55.3	21	2.8	1.5	32	1.9	18.0	40.3	20.0
A96-597011	53.2	26	-0.3	1.7	32	1.7	18.8	41.1	19.3
A96-597021	57.3	10	2.8	1.8	33	1.9	17.5	41.2	19.4
A96-691030	59.9	2	6.6	1.5	33	1.6	16.5	40.3	20.6
C1944	47.4	35	4.2	1.8	34	1.7	17.8	47.6	17.5
C1946	47.7	34	3.9	1.9	38	1.8	16.1	41.7	19.4
C1949	51.0	31	3.9	1.6	35	1.5	18.7	41.0	19.0
C1950	46.7	36	3.9	1.6	34	1.8	16.4	46.3	17.4
C1954	50.6	32	4.5	2.2	35	1.4	16.2	45.4	17.7
C1955	46.6	37	5.0	2.0	37	1.7	13.3	40.1	18.0
C1959	57.0	13	6.2	1.6	34	1.9	20.6	42.0	20.5
C1963	60.3	1	3.9	1.7	33	1.7	16.6	39.2	21.4
E95114	56.9	14	3.3	1.2	33	1.9	18.1	39.2	20.7
E95147	58.0	6	5.3	1.5	31	1.7	18.3	40.8	19.9
E95151	58.0	6	6.2	1.8	35	1.7	17.4	42.1	20.4
E95153	54.7	22	5.2	1.7	34	1.7	17.5	42.7	19.8
E95184	56.9	14	2.5	1.2	30	1.6	17.5	39.6	20.6
E95278	55.6	19	6.1	1.7	31	1.7	14.8	39.3	20.6
E95327	52.3	29	0.2	1.4	31	1.9	15.9	40.7	19.8
E95395	54.5	23	3.1	1.6	34	1.7	17.7	40.4	19.8
E95561	51.7	30	2.4	1.3	33	1.7	20.8	41.3	20.1
E95562	59.1	3	7.8	1.4	32	1.8	16.6	40.4	20.0
E95644	52.4	28	-0.5	1.2	31	1.8	16.9	40.4	20.5
E95653	56.8	16	3.4	1.3	31	1.7	19.2	39.4	20.9
E95655	55.7	18	0.3	1.2	29	1.7	18.7	40.0	21.0
E95882	58.9	4	0.7	1.4	32	1.9	17.7	39.8	20.5
HS94-4260	57.4	9	4.1	2.2	40	1.7	16.1	39.8	20.5
HS94-4287	57.2	12	5.4	1.6	33	1.6	15.4	41.4	19.7

123.7 Days After Planting

PRELIMINARY TEST IIA, 1997

YIELD (bu/a)

Strain	Mean 12 Tests	Ames IA	Hubbard IA	Urbana IL	Lafay- ette IN	Ingham County MI
IA2008R (BSR)	54.4	68.6	57.4	55.6	47.4	58.1
IA2021 (II)	54.0	72.8	54.4	47.4	43.5	58.9
IA2022 (L)	57.3	75.2	55.0	55.9	50.4	56.6
Marcus 95 (I)	50.4	70.2	51.9	45.4	46.2	52.2
A96-492060	53.2	70.9	52.6	50.8	47.0	57.1
A96-591033	58.3	75.2	61.2	58.8	49.8	59.7
A96-591037	55.4	77.3	63.4	56.2	40.3	60.6
A96-591071	56.5	72.3	59.1	60.3	43.1	60.6
A96-591076	58.0	75.6	66.2	58.4	47.8	58.1
A96-597010	55.3	72.9	57.8	56.3	50.7	59.2
A96-597011	53.2	73.3	60.5	47.1	45.7	58.5
A96-597021	57.3	78.6	61.9	51.7	48.0	61.4
A96-691030	59.9	72.5	58.2	65.7	55.0	56.9
C1944	47.4	59.2	43.3	49.1	40.4	40.9
C1946	47.7	63.1	43.2	50.9	44.8	46.8
C1949	51.0	64.4	54.6	50.7	44.0	47.0
C1950	46.7	58.7	47.1	48.1	36.4	46.5
C1954	50.6	62.5	44.1	51.9	45.2	48.5
C1955	46.6	60.7	42.0	48.3	36.1	42.9
C1959	57.0	70.2	58.2	58.5	48.8	57.0
C1963	60.3	74.7	59.5	62.3	54.4	53.5
E95114	56.9	74.8	52.6	57.8	50.1	56.9
E95147	58.0	76.0	56.0	59.0	49.9	59.0
E95151	58.0	74.6	59.1	61.8	54.9	56.6
E95153	54.7	68.6	51.7	58.8	46.8	56.3
E95184	56.9	74.0	52.9	63.1	43.6	61.9
E95278	55.6	71.3	48.0	59.4	44.0	56.3
E95327	52.3	71.0	45.6	54.4	51.2	56.0
E95395	54.5	70.9	50.7	55.9	47.0	53.2
E95561	51.7	70.2	48.5	51.8	39.3	55.8
E95562	59.1	76.7	58.9	60.4	51.5	57.6
E95644	52.4	71.3	55.9	50.7	34.5	53.9
E95653	56.8	71.1	61.2	60.2	41.9	53.8
E95655	55.7	73.1	59.4	55.2	41.3	57.1
E95882	58.9	72.5	62.7	57.7	46.2	60.6
HS94-4260	57.4	72.3	56.4	53.6	52.3	54.4
HS94-4287	57.2	70.8	60.5	62.3	53.5	47.4
C.V. (%)		7.2	11.7	5.2	10.7	5.7
L.S.D. (5%)		10.4	13.1	5.9	10.1	6.4
Row Sp. (In.)		27	27	30	24	30
Rows/Plot		4	4	4	4	4
Reps		2	2	2	2	2

PRELIMINARY TEST IIA, 1997

Strain	YIELD (bu/a)						
	Hild-reth NE	McCool Jct. NE	Adelphia NJ	Hoytville OH	Woodslee Ont.	Beres- ford SD	Brook- ings SD
IA2008R (BSR)	64.4	65.7	43.7	45.5	46.4	61.8	38.7
IA2021 (II)	69.3	64.5	33.7	44.5	54.9	64.3	39.8
IA2022 (L)	66.8	69.6	43.3	51.6	52.7	65.6	45.4
Marcus 95 (I)	65.5	60.7	33.3	43.5	47.9	48.3	40.2
A96-492060	75.1	55.2	38.1	47.8	48.2	53.1	42.3
A96-591033	81.4	71.6	48.1	46.5	54.1	52.7	40.0
A96-591037	72.8	71.0	41.5	48.9	50.8	42.7	39.2
A96-591071	74.5	71.7	45.2	49.5	49.7	51.9	40.6
A96-591076	75.4	66.9	40.3	53.5	52.6	58.6	43.1
A96-597010	72.6	59.6	46.7	49.0	51.7	49.1	37.9
A96-597011	70.4	51.8	42.2	44.5	49.2	53.7	41.3
A96-597021	75.5	62.3	42.2	48.4	52.3	64.8	40.9
A96-691030	72.2	76.4	52.2	53.6	50.2	63.3	42.5
C1944	56.8	60.0	47.3	43.8	40.6	52.0	35.3
C1946	52.2	55.1	43.3	45.2	43.6	51.9	32.3
C1949	62.5	67.1	41.5	41.0	46.9	53.2	38.9
C1950	57.4	59.3	39.2	41.9	43.1	47.7	35.4
C1954	62.0	62.5	47.4	45.7	45.3	55.6	36.4
C1955	57.6	58.1	38.1	45.8	41.6	54.5	33.2
C1959	72.3	68.7	48.1	48.9	50.8	60.2	41.9
C1963	78.8	71.6	60.0	51.1	52.1	63.9	41.4
E95114	66.0	70.0	44.8	51.8	52.3	62.5	42.7
E95147	72.6	66.3	55.1	52.1	49.5	55.1	45.5
E95151	70.2	62.0	55.5	47.5	51.0	63.9	39.3
E95153	66.2	58.9	46.7	49.4	52.1	58.5	41.8
E95184	77.5	64.2	54.8	44.8	48.8	54.4	42.4
E95278	67.0	71.8	51.1	48.2	51.9	57.5	41.0
E95327	69.3	62.3	41.1	38.5	47.8	50.9	39.3
E95395	64.5	69.4	47.0	48.4	51.6	56.6	39.0
E95561	67.3	66.2	39.6	40.5	44.7	57.5	38.7
E95562	75.0	72.2	54.0	53.4	49.8	58.9	40.7
E95644	76.3	60.2	43.3	46.7	43.6	52.7	39.2
E95653	73.8	60.9	50.7	48.9	54.4	63.7	40.6
E95655	75.9	59.1	50.7	45.7	48.5	60.4	41.8
E95882	77.6	69.6	55.5	48.9	51.2	61.5	42.5
HS94-4260	70.1	67.6	53.3	52.5	51.5	62.8	42.4
HS94-4287	71.5	68.9	51.1	48.7	47.8	60.6	42.8
C.V. (%)	4.7	7.7	14.4	6.6	5.3	6.6	5.4
L.S.D. (5%)	6.7	10.3	13.4	4.4	4.4	7.6	4.4
Row Sp. (In.)	30	30	30	30	24	30	30
Rows/Plot	4	4	4	4	4	4	4
Reps	2	2	2	2	2	2	2

PRELIMINARY TEST IIA, 1997

Strain	YIELD RANK					
	Yield Rank	Ames IA	Hubbard IA	Urbana IL	Lafayette IN	Ingham County MI
IA2008R (BSR)	24	30	17	21	16	11
IA2021 (II)	25	15	23	35	28	9
IA2022 (L)	10	6	21	19	9	19
Marcus 95 (I)	33	27	27	37	20	30
A96-492060	26	24	25	29	17	14
A96-591033	5	6	5	11	12	6
A96-591037	20	2	2	18	33	3
A96-591071	17	18	11	7	29	3
A96-591076	6	5	1	14	15	11
A96-597010	21	14	16	17	8	7
A96-597011	26	12	7	36	22	10
A96-597021	10	1	4	27	14	2
A96-691030	2	16	14	1	1	17
C1944	35	36	35	32	32	37
C1946	34	33	36	28	24	34
C1949	31	32	22	30	25	33
C1950	36	37	32	34	35	35
C1954	32	34	34	25	23	31
C1955	37	35	37	33	36	36
C1959	13	27	14	13	13	16
C1963	1	9	9	3	3	28
E95114	14	8	25	15	10	17
E95147	6	4	19	10	11	8
E95151	6	10	11	5	2	19
E95153	22	30	28	11	19	21
E95184	14	11	24	2	27	1
E95278	19	20	31	9	25	21
E95327	29	23	33	23	7	23
E95395	23	24	29	19	17	29
E95561	30	27	30	26	34	24
E95562	3	3	13	6	6	13
E95644	28	20	20	30	37	26
E95653	16	22	5	8	30	27
E95655	18	13	10	22	31	14
E95882	4	16	3	16	20	3
HS94-4260	9	18	18	24	5	25
HS94-4287	12	26	7	3	4	32

PRELIMINARY TEST IIA, 1997

YIELD RANK

Strain	Hild- reth NE	McCool Jct. NE	Adelphia NJ	Hoytville OH	Woodslee Ont.	Beres- ford SD	Brook- ings SD
IA2008R (BSR)	31	19	22	27		10	30
IA2021 (II)	23	20	36	30		3	23
IA2022 (L)	26	10	23	7		1	2
Marcus 95 (I)	29	27	37	33		35	21
A96-492060	9	35	34	20		27	10
A96-591033	1	6	13	23		28	22
A96-591037	13	7	28	12		37	26
A96-591071	11	4	20	9		31	19
A96-591076	8	16	31	2		16	3
A96-597010	14	30	18	11		34	32
A96-597011	19	37	26	30		25	15
A96-597021	7	24	26	17		2	17
A96-691030	17	1	8	1		7	6
C1944	36	29	16	32		30	35
C1946	37	36	23	28		32	37
C1949	32	15	28	35		26	29
C1950	35	31	33	34		36	34
C1954	33	22	15	25		21	33
C1955	34	34	34	24		23	36
C1959	16	13	13	12		14	11
C1963	2	5	1	8		4	14
E95114	28	8	21	6		9	5
E95147	15	17	4	5		22	1
E95151	20	25	2	21		5	24
E95153	27	33	18	10		17	12
E95184	4	21	5	29		24	9
E95278	25	3	9	19		18	16
E95327	22	23	30	37		33	24
E95395	30	11	17	17		20	28
E95561	24	18	32	36		18	30
E95562	10	2	6	3		15	18
E95644	5	28	23	22		28	26
E95653	12	26	11	12		6	19
E95655	6	32	11	25		13	13
E95882	3	9	2	12		11	6
HS94-4260	21	14	7	4		8	8
HS94-4287	18	12	9	16		12	4

PRELIMINARY TEST IIA, 1997

Strain	MATURITY (date)					
	Mean 11 Tests	Ames IA	Hubbard IA	Urbana IL	Lafay- ette IN	Ingham County MI
IA2008R (BSR)	1.7	2		1	1	8
IA2021 (II)	9/22	09/12		09/08	09/12	09/28
IA2022 (L)	5.5	6		5	6	9
Marcus 95 (I)	-1.7	-2		-2	0	2
A96-492060	0.4	1		0	2	4
A96-591033	2.0	2		0	2	4
A96-591037	-0.3	1		0	-1	3
A96-591071	1.3	1		3	-1	5
A96-591076	4.4	4		6	5	6
A96-597010	2.8	1		3	5	4
A96-597011	-0.3	0		0	0	2
A96-597021	2.8	2		2	2	6
A96-691030	6.6	6		11	8	9
C1944	4.2	6		6	6	7
C1946	3.9	5		8	5	7
C1949	3.9	2		5	4	9
C1950	3.9	5		5	5	7
C1954	4.5	6		7	4	8
C1955	5.0	8		11	4	10
C1959	6.2	6		10	7	7
C1963	3.9	5		5	7	7
E95114	3.3	3		4	4	8
E95147	5.3	6		10	7	8
E95151	6.2	6		10	9	9
E95153	5.2	4		11	7	7
E95184	2.5	2		4	3	5
E95278	6.1	5		8	7	8
E95327	0.2	0		0	2	6
E95395	3.1	3		5	3	5
E95561	2.4	2		2	3	6
E95562	7.8	7		10	9	10
E95644	-0.5	-2		1	-3	5
E95653	3.4	2		4	4	7
E95655	0.3	0		1	0	6
E95882	0.7	0		0	1	6
HS94-4260	4.1	4		7	4	8
HS94-4287	5.4	6		10	6	8
Date Planted	05/21	05/13		04/29	05/15	05/27
Days to Mature	123.7	122		132	120	124

PRELIMINARY TEST IIA, 1997

Strain	MATURITY (date)						
	Hild-reth NE	McCool Jct. NE	Adelphia NJ	Hoytville OH	Woodslee Ont.	Beres- ford SD	Brook- ings SD
IA2008R (BSR)	6	1	-3	2	2	-1	0
IA2021 (II)	09/28	09/19	10/01	09/28	10/05	09/27	09/21
IA2022 (L)	6	8	0	4	3	4	9
Marcus 95 (I)	-3	-1	-3	-2	-2	-3	-3
A96-492060	0	2	-3	0	-1	-1	0
A96-591033	5	6	-2	2	1	0	2
A96-591037	-3	0	-3	-1	-1	0	2
A96-591071	4	4	-3	-1	-1	1	2
A96-591076	6	7	0	4	1	4	5
A96-597010	6	6	-2	0	0	4	4
A96-597011	1	-2	-1	0	-1	-3	1
A96-597021	6	4	1	3	0	1	4
A96-691030	7	9	3	6	5	2	7
C1944	7	1	1	3	3	2	4
C1946	6	7	-2	2	1	-1	5
C1949	6	5	1	4	3	-3	7
C1950	5	7	0	2	2	0	5
C1954	8	7	0	3	2	1	4
C1955	8	6	0	2	3	-1	4
C1959	7	8	1	6	3	7	6
C1963	4	5	1	7	1	-1	2
E95114	6	5	1	2	2	-1	2
E95147	6	8	2	5	2	1	3
E95151	8	7	4	6	2	2	5
E95153	6	6	2	5	3	1	5
E95184	2	3	0	1	2	2	4
E95278	6	9	2	6	5	5	6
E95327	-2	1	-1	-1	0	-3	0
E95395	7	6	-1	3	1	-2	4
E95561	7	3	-1	2	1	-2	3
E95562	8	10	5	9	6	7	5
E95644	6	-2	-4	-1	-1	-5	0
E95653	6	5	2	3	2	-2	4
E95655	5	-1	-4	0	1	-4	-1
E95882	7	-1	-1	1	1	-5	-1
HS94-4260	7	6	2	3	1	0	3
HS94-4287	6	8	2	3	3	2	5
Date Planted	06/02	05/15	06/09	06/11	06/11	05/10	05/05
Days to Mature	118	127	114	109	116	140	139

PRELIMINARY TEST IIA, 1997

Strain	LODGING (score)					
	Mean 12 Tests	Ames IA	Hubbard IA	Urbana IL	Lafay- ette IN	Ingham County MI
IA2008R (BSR)	2.1	1.7	3.0	2.5	1.0	2.5
IA2021 (II)	1.8	1.3	2.4	2.0	1.0	2.5
IA2022 (L)	1.6	1.4	1.6	1.3	1.0	2.5
Marcus 95 (I)	1.7	1.3	2.3	1.3	1.0	2.5
A96-492060	1.4	1.2	1.8	1.0	1.0	1.0
A96-591033	1.3	1.1	1.5	1.0	1.0	1.0
A96-591037	1.6	1.4	1.9	1.5	1.0	1.5
A96-591071	1.4	1.3	1.6	1.0	1.0	1.5
A96-591076	1.2	1.1	1.9	1.0	1.0	1.0
A96-597010	1.5	1.2	2.2	1.3	1.0	1.5
A96-597011	1.7	1.3	1.9	1.3	1.0	1.5
A96-597021	1.8	1.3	2.1	1.8	1.0	2.5
A96-691030	1.5	1.3	1.5	1.3	1.0	2.0
C1944	1.8	1.6	2.4	1.8	1.0	2.5
C1946	1.9	1.7	2.7	1.8	1.0	2.5
C1949	1.6	1.2	2.3	1.3	1.0	2.0
C1950	1.6	1.5	2.2	1.0	1.0	2.5
C1954	2.2	1.7	2.7	2.5	1.5	3.0
C1955	2.0	1.6	2.1	2.0	1.0	3.0
C1959	1.6	1.2	2.0	1.5	1.0	2.5
C1963	1.7	1.3	2.2	1.8	1.0	2.5
E95114	1.2	1.1	1.8	1.0	1.0	1.5
E95147	1.5	1.1	1.6	1.0	1.0	1.5
E95151	1.8	1.3	2.2	1.8	1.0	2.0
E95153	1.7	1.2	2.3	1.5	1.0	2.0
E95184	1.2	1.0	2.0	1.0	1.0	1.0
E95278	1.7	1.3	1.4	1.5	1.0	3.0
E95327	1.4	1.2	2.0	1.8	1.0	1.5
E95395	1.6	1.5	2.5	1.5	1.0	2.0
E95561	1.3	1.1	1.5	1.3	1.0	1.0
E95562	1.4	1.1	2.2	1.5	1.0	1.5
E95644	1.2	1.1	1.4	1.5	1.0	1.5
E95653	1.3	1.1	1.8	1.3	1.0	1.5
E95655	1.2	1.2	1.5	1.0	1.0	1.0
E95882	1.4	1.1	1.8	2.5	1.0	1.5
HS94-4260	2.2	1.6	2.7	2.0	1.0	2.5
HS94-4287	1.6	1.4	1.9	1.5	1.0	2.0

PRELIMINARY TEST IIA, 1997

Strain	LODGING (score)						
	Hild-reth NE	McCool Jct. NE	Adelphia NJ	Hoytville OH	Woodslee Ont.	Beres- ford SD	Brook- ings SD
IA2008R (BSR)	3.0	1.5	2.3	1.6	1.5	2.0	3.0
IA2021 (II)	2.0	2.0	2.0	1.5	1.0	1.0	3.0
IA2022 (L)	1.5	2.0	1.8	1.8	1.5	1.0	2.0
Marcus 95 (I)	2.0	1.5	2.8	1.4	1.0	1.0	2.0
A96-492060	1.5	1.5	1.8	1.4	1.0	1.0	2.0
A96-591033	1.0	1.0	2.0	1.5	1.0	1.0	2.0
A96-591037	2.0	1.5	2.3	1.4	1.0	1.0	3.0
A96-591071	1.5	1.5	1.8	1.4	1.0	1.0	2.0
A96-591076	1.0	1.0	1.5	1.4	1.0	1.0	2.0
A96-597010	2.0	1.5	1.5	1.4	1.0	1.0	2.0
A96-597011	1.5	2.0	2.5	1.8	1.0	1.0	3.0
A96-597021	2.0	2.0	2.3	1.4	1.5	2.0	2.0
A96-691030	2.0	1.5	1.5	1.5	1.0	1.0	2.0
C1944	2.5	1.0	1.8	1.7	1.0	2.0	2.0
C1946	2.5	2.0	2.3	2.0	1.0	1.0	2.0
C1949	2.0	1.5	2.0	1.4	1.0	1.0	2.0
C1950	2.0	1.0	2.0	1.8	1.0	2.0	1.0
C1954	3.0	2.0	2.5	2.0	1.5	2.0	2.0
C1955	3.0	1.5	2.0	1.8	1.5	2.0	2.0
C1959	2.0	1.5	2.5	1.4	1.0	1.0	2.0
C1963	1.5	1.0	2.5	1.8	1.0	2.0	2.0
E95114	1.5	1.5	1.0	1.3	1.0	1.0	1.0
E95147	2.0	2.0	1.8	1.4	1.0	1.0	2.0
E95151	2.5	2.0	1.5	1.4	1.0	2.0	3.0
E95153	2.5	1.5	2.0	1.4	1.0	2.0	2.0
E95184	1.5	1.5	1.3	1.3	1.0	1.0	1.0
E95278	2.0	1.5	2.3	1.5	1.5	1.0	2.0
E95327	1.5	1.5	2.3	1.5	1.0	1.0	1.0
E95395	2.0	2.0	1.8	1.4	1.0	1.0	1.0
E95561	2.0	1.0	1.3	1.3	1.0	1.0	2.0
E95562	1.5	1.0	1.3	1.3	1.0	1.0	2.0
E95644	1.5	1.0	1.0	1.3	1.0	1.0	1.0
E95653	1.5	1.0	1.5	1.3	1.0	1.0	1.0
E95655	1.0	1.0	1.0	1.4	1.0	1.0	2.0
E95882	1.5	1.0	1.5	1.2	1.0	2.0	1.0
HS94-4260	2.5	2.0	2.8	1.7	1.5	3.0	3.0
HS94-4287	1.5	1.5	2.3	1.6	1.0	1.0	2.0

PRELIMINARY TEST IIA, 1997

Strain	PLANT HEIGHT (inches)					
	Mean 12 Tests	Ames IA	Hubbard IA	Urbana IL	Lafay- ette IN	Ingham County MI
IA2008R (BSR)	35	44	38	36	30	36
IA2021 (II)	29	34	33	32	24	30
IA2022 (L)	36	43	36	36	32	37
Marcus 95 (I)	28	34	32	29	26	29
A96-492060	28	35	31	27	22	27
A96-591033	32	39	36	33	29	33
A96-591037	29	36	35	28	25	32
A96-591071	31	38	33	31	27	33
A96-591076	32	38	39	31	28	34
A96-597010	32	41	38	31	30	30
A96-597011	32	40	37	33	30	33
A96-597021	33	40	36	30	28	34
A96-691030	33	43	31	33	30	37
C1944	34	43	42	34	26	36
C1946	38	46	41	37	28	36
C1949	35	41	38	31	31	40
C1950	34	44	39	32	30	35
C1954	35	43	38	34	32	39
C1955	37	46	40	35	33	41
C1959	34	41	39	35	32	37
C1963	33	40	35	34	31	33
E95114	33	44	39	35	29	31
E95147	31	39	33	29	26	33
E95151	35	45	39	36	30	38
E95153	34	43	34	36	28	36
E95184	30	37	34	31	26	29
E95278	31	38	31	32	27	35
E95327	31	38	31	33	28	34
E95395	34	44	36	36	29	34
E95561	33	41	37	34	27	36
E95562	32	40	38	32	27	33
E95644	31	39	33	34	25	34
E95653	31	38	35	32	25	31
E95655	29	36	28	32	24	33
E95882	32	39	35	34	28	36
HS94-4260	40	48	44	39	38	41
HS94-4287	33	39	35	35	33	38

PRELIMINARY TEST IIA, 1997

Strain	PLANT HEIGHT (inches)						
	Hild-reth NE	McCool Jct. NE	Adelphia NJ	Hoytville OH	Woodslee Ont.	Beres- ford SD	Brook- ings SD
IA2008R (BSR)	42	38	29	32	28	35	37
IA2021 (II)	35	32	20	31	21	29	27
IA2022 (L)	43	38	30	33	35	35	39
Marcus 95 (I)	33	30	20	27	22	30	29
A96-492060	31	27	36	23	21	28	28
A96-591033	38	33	26	31	27	29	32
A96-591037	33	30	22	29	22	26	27
A96-591071	35	32	26	28	25	30	31
A96-591076	36	33	25	29	27	32	29
A96-597010	38	33	25	31	29	31	31
A96-597011	39	32	24	31	26	32	31
A96-597021	41	35	27	28	30	33	35
A96-691030	37	33	28	30	29	33	36
C1944	38	37	28	31	28	36	34
C1946	46	40	31	34	34	38	39
C1949	38	36	27	30	30	35	39
C1950	38	37	26	28	27	35	35
C1954	37	37	28	32	28	39	34
C1955	43	38	30	33	32	39	35
C1959	39	35	27	27	28	37	36
C1963	36	36	27	32	26	38	32
E95114	41	35	24	27	25	38	33
E95147	37	34	25	27	26	31	31
E95151	43	34	33	30	28	33	36
E95153	41	36	30	31	28	33	35
E95184	36	32	25	25	21	32	28
E95278	36	35	27	26	27	31	32
E95327	35	33	25	26	25	29	31
E95395	42	36	26	31	27	33	31
E95561	41	35	25	29	23	35	35
E95562	37	35	27	28	27	31	31
E95644	38	33	24	30	23	32	32
E95653	40	30	22	31	23	31	32
E95655	37	30	23	26	21	31	28
E95882	42	34	25	26	21	30	34
HS94-4260	43	42	35	36	31	36	42
HS94-4287	36	35	28	31	22	34	33

PRELIMINARY TEST IIA, 1997

Strain	SEED QUALITY (score)					
	Mean 11 Tests	Ames IA	Hubbard IA	Urbana IL	Lafay- ette IN	Ingham County MI
IA2008R (BSR)	1.8	1.5	1.0	1.2	1.0	1.0
IA2021 (II)	1.6	1.5	1.0	1.8	1.0	1.0
IA2022 (L)	1.7	2.5	1.0	1.8	1.0	2.0
Marcus 95 (I)	2.0	2.0	1.5	2.0	1.0	1.0
A96-492060	1.6	1.5	1.0	1.2	1.0	1.0
A96-591033	1.6	1.5	1.0	1.4	1.0	1.0
A96-591037	1.7	1.0	1.0	1.2	1.0	1.0
A96-591071	1.6	1.5	1.5	1.2	1.0	1.0
A96-591076	1.6	1.0	1.0	1.4	1.0	1.0
A96-597010	1.9	1.5	1.5	1.5	1.0	1.0
A96-597011	1.7	2.0	1.5	1.5	1.0	1.0
A96-597021	1.9	2.0	1.5	1.5	1.0	1.0
A96-691030	1.6	2.0	1.0	1.5	1.0	1.0
C1944	1.7	1.0	1.0	1.4	1.0	1.0
C1946	1.8	2.5	2.0	1.2	1.0	1.0
C1949	1.5	1.5	1.0	1.2	1.0	1.0
C1950	1.8	2.0	1.5	1.5	1.0	1.0
C1954	1.4	1.0	1.0	1.4	1.0	1.0
C1955	1.7	2.5	1.0	1.4	1.0	1.0
C1959	1.9	1.5	1.0	1.2	2.0	1.0
C1963	1.7	1.5	1.0	1.4	1.0	1.0
E95114	1.9	1.5	1.5	1.8	1.0	1.0
E95147	1.7	1.0	1.0	1.6	1.0	1.0
E95151	1.7	1.5	1.5	1.2	2.0	1.0
E95153	1.7	2.0	1.0	1.7	1.0	1.0
E95184	1.6	1.5	1.5	1.5	1.0	1.0
E95278	1.7	1.0	1.0	1.2	2.0	1.0
E95327	1.9	1.5	1.5	1.4	1.0	1.0
E95395	1.7	1.0	1.0	1.4	1.0	1.0
E95561	1.7	1.5	1.0	1.5	1.0	1.0
E95562	1.8	1.5	1.5	1.2	1.0	1.0
E95644	1.8	1.0	1.0	1.6	1.0	1.0
E95653	1.7	1.5	1.0	1.2	1.0	1.0
E95655	1.7	1.5	1.0	1.5	1.0	1.0
E95882	1.9	1.0	1.0	1.4	1.0	1.0
HS94-4260	1.7	1.5	1.0	1.4	1.0	1.0
HS94-4287	1.6	1.5	1.0	1.2	1.0	1.0

PRELIMINARY TEST IIA, 1997

SEED QUALITY (score)

Strain	Hild- reth NE	McCool Jct. NE	Adelphia NJ	Hoytville OH	Woodslee Ont.	Beres- ford SD	Brook- ings SD
IA2008R (BSR)	2.0	2.0		2.5	2.0	3.0	3.0
IA2021 (II)	1.5	1.5		2.5	1.5	2.0	2.0
IA2022 (L)	1.0	2.0		2.5	1.0	2.0	2.0
Marcus 95 (I)	1.5	2.0		2.5	3.0	2.0	3.0
A96-492060	1.0	2.0		2.5	2.0	2.0	2.0
A96-591033	1.5	2.0		2.5	1.5	2.0	2.0
A96-591037	2.0	2.0		2.5	3.0	2.0	2.0
A96-591071	1.5	2.0		2.5	1.5	2.0	2.0
A96-591076	1.5	2.0		2.5	1.5	3.0	2.0
A96-597010	2.0	2.5		2.5	1.5	3.0	3.0
A96-597011	2.0	2.0		2.5	1.5	2.0	2.0
A96-597021	1.5	2.5		2.5	1.0	3.0	3.0
A96-691030	1.5	2.0		2.5	1.0	2.0	2.0
C1944	3.0	2.0		2.5	1.0	2.0	3.0
C1946	1.5	2.0		2.5	1.0	3.0	2.0
C1949	1.5	1.5		2.5	1.0	2.0	2.0
C1950	2.0	2.0		2.5	1.0	3.0	2.0
C1954	1.0	2.0		1.5	1.0	2.0	2.0
C1955	2.0	2.0		2.5	1.0	2.0	2.0
C1959	2.5	2.0		2.5	1.0	3.0	3.0
C1963	1.5	1.5		3.5	2.0	2.0	2.0
E95114	2.0	2.0		2.5	2.0	3.0	3.0
E95147	1.5	2.0		2.5	2.0	3.0	2.0
E95151	1.5	2.0		2.5	1.0	2.0	3.0
E95153	2.0	2.0		2.5	2.0	2.0	2.0
E95184	1.5	2.0		2.5	1.5	2.0	2.0
E95278	1.5	2.0		2.5	1.5	3.0	2.0
E95327	2.0	2.0		2.5	1.5	3.0	3.0
E95395	2.0	2.0		2.5	1.0	3.0	3.0
E95561	2.5	2.5		2.5	1.5	2.0	2.0
E95562	1.5	2.5		2.5	1.0	4.0	2.0
E95644	1.5	2.0		2.5	2.0	4.0	2.0
E95653	1.5	2.0		2.5	1.0	3.0	3.0
E95655	3.0	2.0		2.5	1.5	2.0	2.0
E95882	2.0	2.0		2.5	1.5	3.0	4.0
HS94-4260	1.5	2.0		2.5	2.0	3.0	2.0
HS94-4287	2.0	2.0		2.5	1.0	2.0	2.0

PRELIMINARY TEST IIA, 1997

SEED SIZE (g/100)

Strain	Mean 11 Tests	Ames IA	Hubbard IA	Urbana IL	Lafay- ette IN	Ingham County MI
IA2008R (BSR)	14.6	13.9	13.7	14.9	14.1	16.5
IA2021 (II)	17.3	15.9	16.0	15.6	15.5	19.0
IA2022 (L)	15.1	14.5	13.6	14.9	14.7	16.2
Marcus 95 (I)	17.5	16.1	16.9	15.6	15.9	18.3
A96-492060	18.0	16.0	16.8	16.2	16.0	19.0
A96-591033	19.1	18.0	18.2	18.1	18.0	20.6
A96-591037	18.3	16.8	16.9	16.8	16.6	19.6
A96-591071	17.8	15.8	16.3	16.8	16.4	19.7
A96-591076	15.7	14.2	14.6	14.9	15.0	16.0
A96-597010	18.0	17.4	17.5	18.0	16.7	18.9
A96-597011	18.8	16.8	18.1	16.3	18.0	19.9
A96-597021	17.5	16.0	16.9	15.7	17.4	18.4
A96-691030	16.5	14.8	15.6	15.7	15.1	18.1
C1944	17.8	17.8	18.4	17.2	17.1	18.3
C1946	16.1	14.7	15.5	15.5	15.0	17.3
C1949	18.7	17.5	18.5	18.4	17.4	18.9
C1950	16.4	15.6	16.1	16.1	15.4	16.0
C1954	16.2	15.7	15.1	15.8	15.2	18.1
C1955	13.3	12.9	13.2	13.6	13.3	13.2
C1959	20.6	19.8	20.3	19.7	20.9	21.4
C1963	16.6	14.9	15.7	15.8	16.1	16.0
E95114	18.1	17.3	16.5	17.1	15.3	18.9
E95147	18.3	19.6	18.1	18.2	15.9	19.9
E95151	17.4	16.6	16.6	16.7	15.4	18.9
E95153	17.5	16.1	16.3	16.3	15.2	18.2
E95184	17.5	16.9	16.3	15.7	15.9	19.2
E95278	14.8	13.3	13.6	13.9	13.9	16.3
E95327	15.9	15.1	14.1	15.3	14.1	16.8
E95395	17.7	16.8	16.7	17.4	16.5	18.3
E95561	20.8	20.2	20.1	20.4	19.4	21.9
E95562	16.6	15.6	15.8	15.7	16.5	16.5
E95644	16.9	15.0	14.9	16.4	14.9	17.8
E95653	19.2	17.6	19.1	18.8	17.6	21.1
E95655	18.7	17.1	17.5	17.5	16.9	20.5
E95882	17.7	15.8	16.6	18.3	16.4	19.6
HS94-4260	16.1	14.4	14.8	15.8	15.8	16.4
HS94-4287	15.4	14.1	14.8	15.7	15.5	15.8

PRELIMINARY TEST IIA, 1997

SEED SIZE (g/100)							
Strain	Hild- reth NE	McCool Jct. NE	Adelphia NJ	Hoytville OH	Woodslee Ont.	Beres- ford SD	Brook- ings SD
IA2008R (BSR)	16.5	14.7		15.4	17.0	13.0	11.4
IA2021 (II)	21.1	16.5		17.1	22.6	15.3	15.6
IA2022 (L)	16.9	15.0		15.8	17.7	13.6	13.4
Marcus 95 (I)	19.9	19.2		18.8	21.0	14.8	15.6
A96-492060	20.7	18.8		19.9	21.6	16.5	16.0
A96-591033	22.1	19.4		20.4	22.0	17.1	16.3
A96-591037	21.6	18.9		19.5	21.5	17.6	16.0
A96-591071	19.7	18.4		19.1	21.7	16.7	15.3
A96-591076	17.4	16.0		17.4	18.0	14.0	15.1
A96-597010	22.8	17.1		18.8	19.8	15.9	15.2
A96-597011	22.2	19.6		20.6	21.2	17.1	16.5
A96-597021	20.7	18.1		18.7	19.3	15.8	15.0
A96-691030	19.0	16.2		17.6	19.3	15.3	14.8
C1944	19.9	17.5		19.2	19.7	15.9	14.8
C1946	18.3	16.7		17.1	17.9	15.1	13.6
C1949	20.8	19.0		19.3	21.3	18.4	15.8
C1950	18.1	15.8		18.6	18.8	15.1	14.5
C1954	18.8	15.2		17.2	17.8	15.3	14.3
C1955	14.5	13.8		13.7	14.3	12.1	11.7
C1959	22.2	20.7		21.0	23.8	19.3	17.5
C1963	19.1	17.7		18.3	19.4	14.7	14.9
E95114	20.4	18.0		20.6	22.4	17.2	15.5
E95147	20.1	16.1		20.0	21.3	16.0	16.4
E95151	20.3	16.2		17.9	20.2	16.1	16.1
E95153	20.3	16.4		18.8	21.5	16.6	16.5
E95184	20.5	16.5		17.1	21.6	16.3	16.6
E95278	16.9	15.2		15.2	17.4	14.4	12.7
E95327	18.2	16.6		17.1	19.2	14.8	14.0
E95395	19.9	17.5		19.4	20.4	16.9	15.3
E95561	22.2	20.8		21.1	24.4	20.1	18.7
E95562	18.3	16.2		17.9	19.4	15.5	14.7
E95644	20.0	17.5		19.0	20.8	15.1	14.7
E95653	23.6	18.2		16.9	23.7	17.5	16.6
E95655	22.7	18.0		19.3	22.4	17.6	16.7
E95882	21.1	16.3		18.8	21.0	15.5	15.5
HS94-4260	18.4	16.7		17.5	18.7	14.4	14.5
HS94-4287	17.4	14.6		15.8	17.4	14.4	13.4

PRELIMINARY TEST IIA, 1997

Strain	PROTEIN (%)					
	Mean 5 Tests	Ames IA	Urbana IL	Lafayette IN	East Lansing MI	Lincoln NE
IA2008R (BSR)	39.4	39.1	37.4	37.7	41.9	40.8
IA2021 (II)	37.8	37.3	35.6	36.6	40.5	38.9
IA2022 (L)	40.9	39.7	39.8	40.1	43.7	41.4
Marcus 95 (I)	39.4	39.0	37.6	38.2	41.2	40.9
A96-492060	40.8	40.9	39.9	40.2	41.3	41.7
A96-591033	41.2	40.8	40.1	41.4	42.9	40.8
A96-591037	40.2	40.1	39.0	39.6	41.9	40.4
A96-591071	40.9	40.1	39.7	40.4	42.6	41.5
A96-591076	41.1	40.5	40.3	41.0	42.1	41.8
A96-597010	40.3	40.8	38.5	37.8	42.3	42.2
A96-597011	41.1	40.4	39.3	40.4	43.8	41.7
A96-597021	41.2	40.3	39.0	41.1	43.4	42.3
A96-691030	40.3	39.4	39.3	39.5	42.1	41.2
C1944	47.6	45.2	44.8	48.2	50.8	48.9
C1946	41.7	40.8	40.8	40.2	43.6	43.0
C1949	41.0	39.7	39.1	40.9	43.3	41.9
C1950	46.3	44.3	45.0	47.7	46.8	47.5
C1954	45.4	44.0	42.9	46.3	47.5	46.3
C1955	40.1	44.1	44.5	46.9	17.9	46.9
C1959	42.0	41.0	41.0	41.9	44.0	42.0
C1963	39.2	39.4	38.4	38.2	41.2	39.0
E95114	39.2	39.0	38.3	37.8	40.6	40.3
E95147	40.8	39.6	39.4	40.0	42.3	42.6
E95151	42.1	41.1	40.7	41.7	43.9	42.9
E95153	42.7	41.2	42.4	41.7	44.8	43.5
E95184	39.6	39.4	38.5	38.8	40.9	40.5
E95278	39.3	39.6	37.6	37.3	41.9	40.0
E95327	40.7	40.0	39.6	40.6	41.8	41.4
E95395	40.4	39.4	39.3	39.1	41.9	42.4
E95561	41.3	40.8	40.1	39.4	43.2	43.2
E95562	40.4	39.4	39.1	39.5	42.3	41.6
E95644	40.4	40.1	39.0	39.3	42.3	41.4
E95653	39.4	39.7	38.2	37.4	41.7	40.2
E95655	40.0	40.0	38.4	38.1	41.9	41.7
E95882	39.8	39.8	38.3	38.7	41.4	40.7
HS94-4260	39.8	38.1	39.0	39.6	41.8	40.5
HS94-4287	41.4	40.4	41.5	40.7	43.2	41.0

PRELIMINARY TEST IIA, 1997

Strain	OIL (%)					
	Mean 5 Tests	Ames IA	Urbana IL	Lafayette IN	East Lansing MI	Lincoln NE
IA2008R (BSR)	20.5	20.2	22.1	21.5	18.9	19.9
IA2021 (II)	21.9	21.9	24.0	22.9	19.2	21.7
IA2022 (L)	19.9	20.4	21.5	20.4	17.6	19.8
Marcus 95 (I)	21.4	21.4	23.1	22.3	19.1	20.9
A96-492060	20.1	20.0	21.1	20.6	18.9	19.8
A96-591033	20.0	19.9	21.0	20.5	18.5	20.2
A96-591037	19.7	19.6	21.0	20.2	18.2	19.7
A96-591071	20.5	20.9	21.8	21.5	18.4	20.1
A96-591076	20.5	20.3	21.9	20.8	19.7	19.8
A96-597010	20.0	20.2	21.6	20.9	18.2	19.3
A96-597011	19.3	19.4	20.6	20.1	16.6	19.6
A96-597021	19.4	19.7	21.1	19.9	16.5	19.8
A96-691030	20.6	20.8	22.1	21.6	18.4	20.2
C1944	17.5	18.8	19.3	17.6	14.8	16.9
C1946	19.4	19.6	20.9	20.0	17.4	18.9
C1949	19.0	19.9	20.8	19.7	15.7	18.9
C1950	17.4	18.4	18.6	16.8	16.4	17.0
C1954	17.7	18.5	19.7	17.5	15.9	17.1
C1955	18.0	18.5	19.4	18.1	16.3	17.9
C1959	20.5	20.7	21.8	21.1	17.9	20.8
C1963	21.4	21.1	22.4	22.2	20.1	21.1
E95114	20.7	20.8	22.2	21.6	18.7	20.2
E95147	19.9	20.4	21.3	20.5	17.9	19.5
E95151	20.4	20.6	21.9	20.7	18.2	20.4
E95153	19.8	20.7	21.1	20.7	17.1	19.4
E95184	20.6	20.5	22.2	21.6	18.9	20.0
E95278	20.6	20.4	22.1	21.5	18.6	20.6
E95327	19.8	20.2	20.6	20.3	18.4	19.4
E95395	19.8	20.0	21.3	20.7	18.5	18.5
E95561	20.1	20.5	21.6	21.6	17.2	19.7
E95562	20.0	20.5	21.6	20.6	17.7	19.4
E95644	20.5	20.3	22.0	21.4	18.4	20.5
E95653	20.9	20.9	22.3	22.2	18.7	20.6
E95655	21.0	20.8	22.4	22.4	19.3	20.3
E95882	20.5	20.9	21.9	21.4	18.6	19.9
HS94-4260	20.5	20.7	21.7	21.2	19.1	19.8
HS94-4287	19.7	20.1	21.3	20.4	17.4	19.5

Preliminary Test IIB

Strain	Parentage	Generation Composited	Unique Traits
1. IA2008R	IA2008(4) x Archer	BC3 F2	BSR
2. IA2021 (II)	Elgin x Marcus 95	F5	
3. IA2022 (L)	Asgrow A3205 x Dairyland DSR 304	F5	
4. IA2036 (SCN)	Jack x A86-301024	F5	SCN
5. Marcus 95 (I)	[Marcus (5) x Elgin 87] x [Marcus (5) x Preston BC-11-1]	BC4F2	Rps1-k, Rps6
6. LG92-1255	LG84-1291 x Asgrow A3127	F6	
7. LG93-7054	LG85-3343 x Northrup King S42-30	F6	
8. LN93-5328	LN84-15336 x A86-301024	F5	
9. LN93-12893	Hamilton x LN86-983	F5	Rps?
10. LN93-13473	Jack x Bell	F5	SCN
11. LN93-16410	LN84-8588 x Resnik	F5	
12. LN94-8462	L84-5873 x Resnik	F5	Rps?
13. LN94-9065	L84-5932 x IA2007	F5	Rps?
14. M90-206002	Kasota x E86239	F5	Rps1
15. ORC 9605	RCAT Tabby x Northrup King S26-06	F5	
16. ORC 9608	9303 x T8508	F5	
17. SD94-10	Sturdy x Sibley	F5	
18. SD94-27	Sturdy x Sibley	F5	
19. SD94-461	Glenwood x Jack	F5	
20. SD94-495	Glenwood x Jack	F5	SCN 3
21. SD94-808	Parker x Archer	F5	
22. SD94-1410	SD87001 x Leslie	F5	
23. SD94-1467	Archer x Glenwood	F5	BSR
24. U96-2107	Colfax x A91-701035	F4	
25. U96-2118	Colfax x U91-2529	F4	
26. U96-2209	Colfax x A91-701035	F4	
27. U96-2233	Colfax x A91-701035	F4	
28. U96-2236	MSBP2 x (F1 SSD) F6	F7	
29. U96-2309	Colfax x A91-701035	F4	
30. U96-2329	MSBP2 (F1 bulk)	F7	
31. U96-2402	MSBP2 (F1 SSD)	F7	
32. U96-2407	Colfax x Asgrow A2242	F4	
33. U96-2408	Colfax x Iroquois	F4	
34. U96-2416	MSBP2 (F1 bulk)	F7	
35. U96-2426	Colfax x Asgrow A2242	F4	
36. U96-2431	MSBP2 (F1 SSD)	F7	
37. U96-2436	Colfax x Asgrow A2242	F4	
38. U96-3429	MSBP2 (F1 SSD)	F7	

PRELIMINARY TEST IIB, 1997

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	<u>Chlorosis</u>	<u>Shattering</u>	<u>BSR Resistance</u>	
		Score Ames	Score Manhattan	% Incid.	% Sev.
IA2008R	WGTnDYBfEpI	2.5	--	45.0	8.0
IA2021 (II)	WTBrSYBlepI	3.8	--	100.0	54.0
IA2022 (L)	PGBrSYBlepI	3.6	--		
IA2036 (SCN)	PGBrSYYepI	3.2	2.0		
Marcus 95 (I)	WTTnDYBfepI	3.8	--		
LG92-1255	PTTnDYBlEpI	3.6	2.0		
LG93-7054	PGBrDYLIbepI	3.1	2.0		
LN93-5328	PTTnSYBlepI	3.0	2.0		
LN93-12893	WGTnDYBfepI	2.2	2.0		
LN93-13473	WTBr+TnDYBrEpI	3.0	2.0		
LN93-16410	WGTnSYBfepI	3.2	2.0		
LN94-8462	WTTnDYBlEpI	3.0	2.0		
LN94-9065	WTBrDYBlepI	3.3	2.0		
M90-206002	P+WGBrDYBfepI	2.7	2.0		
ORC 9605	WGTnDYBfEpI	3.6	2.0		
ORC 9608	PTBrDYBrepI	3.5	2.0		
SD94-10	WGBrDYHepI	3.5	2.0		
SD94-27	WGBrDYBfepI	1.7	2.0		
SD94-461	WGBrDY YE pI	1.8	2.0		
SD94-495	WGBrDYDBfHI	2.5	2.0		
SD94-808	PGBrDYBfEpI	2.1	2.0	95.0	26.0
SD94-1410	PGBrDYIbEpI	1.7	2.0		
SD94-1467	PGTnDYIbEpI	2.0	3.0	85.0	27.0
U96-2107	WGBrSYBfHI	3.3	2.0		
U96-2118	P+WG+TBrDYHepI	3.3	2.0		
U96-2209	P+WGTnDYDBfHI	3.3	2.0		
U96-2233	PGTnSYIbHI	2.8	2.0		
U96-2236	PTTnDYBlepI	2.6	2.0		
U96-2309	P+WGTnIYBfepI	2.3	2.0		
U96-2329	WGBrDYBfepI	2.3	2.0		
U96-2402	PTTnDYBlEpI	2.8	2.0		
U96-2407	WTTnDYBlEpI	2.1	2.0		
U96-2408	WGTnDYBfepI	3.0	2.0		
U96-2416	WTTnIYBlepI	3.0	2.0		
U96-2426	WTTnDYHepI	3.8	2.0		
U96-2431	WTBrDYBlepI	3.1	2.0		
U96-2436	WGTnDYHHI	2.6	2.0		
U96-3429	WTTnDYBlepI	3.2	2.0		

PRELIMINARY TEST IIB, 1997

DISEASE DATA

Strain	PR		Hard Seed	PS	P&SB
	Ames Race 4	Lafayette Race 7	%	Lafayette a %	n %
IA2008R		R	16	26	4
IA2021 (II)		R	38	20	2
IA2022 (L)		S	6	42	2
IA2036 (SCN)		R	0	34	2
Marcus 95 (I)		R	0	60	4
LG92-1255	S	S	2	8	0
LG93-7054	S	S	0	40	2
LN93-5328	S	R	0	22	0
LN93-12893	S	S	0	32	0
LN93-13473	S	R	0	50	0
LN93-16410	S	S	0	34	2
LN94-8462	R	R	0	12	0
LN94-9065	S	R	18	34	2
M90-206002	S	R	6	28	0
ORC 9605	S	S	0	8	0
ORC 9608	S	S	8	18	0
SD94-10	S	S	12	12	0
SD94-27	S	S	2	18	0
SD94-461	S	S	0	30	0
SD94-495	S	R	12	52	0
SD94-808	S	R	4	18	0
SD94-1410	S	R	2	20	0
SD94-1467	S	R	8	26	0
U96-2107	S	S	2	36	0
U96-2118	S	S	6	38	0
U96-2209	S	S	0	14	0
U96-2233	S	S	0	22	0
U96-2236	S	H	6	18	4
U96-2309	S	S	4	20	0
U96-2329	S	S	2	22	0
U96-2402	S	S	2	10	0
U96-2407	S	R	2	14	0
U96-2408	S	S	0	16	0
U96-2416	S	R	4	38	0
U96-2426	S	R	0	38	0
U96-2431	S	S	0	14	0
U96-2436	S	R	4	14	0
U96-3429	S	R	8	6	0

PRELIMINARY TEST IIB, 1997

REGIONAL SUMMARY

No. of Tests Strain	Yield 12 bu/a	Rank 12 No.	Maturity 11 Date	Lodging 12 Score	Plant Height 12 In.	Seed Quality 11 Score	Seed Size 11 g/100	Composition	
								Protein 5 %	Oil 5 %
IA2008R	54.1	20	1.0	1.9	35	1.9	14.7	39.5	20.3
IA2021 (II)	55.0	16	9/22	1.5	29	1.6	17.4	37.2	22.1
IA2022 (L)	56.4	6	5.1	1.7	36	1.7	15.4	40.5	20.5
IA2036 (SCN)	50.2	31	-0.1	2.3	35	1.8	14.9	40.5	19.1
Marcus 95 (I)	49.3	33	-1.7	1.5	28	2.0	16.8	39.5	21.4
LG92-1255	53.4	22	5.8	1.7	34	1.8	16.7	41.1	20.7
LG93-7054	53.3	23	4.9	1.8	35	1.5	15.3	41.4	20.0
LN93-5328	55.3	12	5.9	1.7	35	1.6	15.9	41.2	19.5
LN93-12893	54.4	18	6.7	1.9	34	1.8	14.6	39.8	20.6
LN93-13473	52.6	26	7.0	2.8	38	1.9	15.4	40.1	21.3
LN93-16410	53.0	24	4.5	1.6	35	1.6	18.9	40.4	20.1
LN94-8462	53.6	21	7.5	1.5	35	1.5	16.5	42.4	19.8
LN94-9065	50.9	28	4.4	1.9	35	1.8	20.1	41.5	19.9
M90-206002	51.4	27	1.6	1.6	30	1.9	16.8	39.7	21.0
ORC 9605	45.8	37	-1.5	1.5	32	1.8	18.4	40.6	20.0
ORC 9608	59.4	1	5.7	1.8	34	1.6	18.9	39.2	20.3
SD94-10	48.7	34	0.1	1.7	30	1.5	17.9	39.8	20.8
SD94-27	49.7	32	-0.6	1.7	32	1.8	17.0	38.7	21.0
SD94-461	47.3	36	-1.1	1.4	31	1.5	16.8	41.6	20.2
SD94-495	50.4	29	0.5	1.9	33	1.7	16.7	40.0	20.8
SD94-808	50.3	30	-2.5	2.0	31	1.8	17.8	39.8	20.4
SD94-1410	48.5	35	-3.1	1.6	31	2.0	17.0	40.8	19.4
SD94-1467	45.7	38	-4.5	1.4	30	1.6	15.7	39.1	20.6
U96-2107	55.2	14	4.4	1.4	32	1.9	18.4	40.6	19.6
U96-2118	56.0	9	6.5	1.7	31	1.6	17.2	40.2	20.6
U96-2209	55.4	11	4.6	1.3	29	1.6	19.6	40.9	20.3
U96-2233	56.4	6	3.9	1.2	27	1.6	17.3	39.2	20.5
U96-2236	56.8	4	6.9	1.3	33	1.5	15.2	38.0	20.5
U96-2309	55.7	10	5.9	1.6	30	1.7	17.7	40.4	20.8
U96-2329	55.3	12	2.8	1.8	33	1.9	18.0	40.7	19.6
U96-2402	55.2	14	2.9	1.6	34	1.5	17.8	40.6	20.7
U96-2407	54.4	18	1.1	1.3	30	1.7	16.2	40.3	20.1
U96-2408	57.7	2	5.1	1.5	34	1.5	15.5	40.0	20.2
U96-2416	56.1	8	3.9	1.6	34	1.5	16.2	40.6	20.6
U96-2426	56.6	5	5.0	1.7	33	1.9	15.0	38.9	20.8
U96-2431	54.6	17	3.8	1.6	34	1.9	16.7	39.8	19.9
U96-2436	57.5	3	6.5	1.4	31	1.6	14.4	38.1	20.6
U96-3429	52.9	25	4.2	1.7	36	1.6	14.8	39.7	21.2

124.5 Days After Planting

PRELIMINARY TEST IIB, 1997

YIELD (bu/a)

Strain	Mean 12 Tests	Ames IA	Hubbard IA	Urbana IL	Lafay- ette IN	Ingham County MI
IA2008R	54.1	66.3	60.6	55.2	46.8	55.3
IA2021 (II)	55.0	73.8	61.0	48.7	47.3	60.2
IA2022 (L)	56.4	72.6	62.6	52.3	54.5	57.9
IA2036 (SCN)	50.2	63.5	57.0	49.1	49.1	57.2
Marcus 95 (I)	49.3	67.3	58.3	40.6	45.7	51.6
LG92-1255	53.4	71.0	52.3	54.4	46.0	55.9
LG93-7054	53.3	67.1	64.5	54.5	46.0	52.8
LN93-5328	55.3	65.3	64.8	60.2	54.1	53.2
LN93-12893	54.4	73.2	57.7	60.6	57.1	53.0
LN93-13473	52.6	65.6	52.2	56.8	48.5	46.2
LN93-16410	53.0	73.1	49.3	52.9	50.2	57.8
LN94-8462	53.6	67.0	56.5	60.2	49.6	51.9
LN94-9065	50.9	65.7	46.6	49.1	50.2	50.4
M90-206002	51.4	71.2	52.6	48.9	42.4	54.9
ORC 9605	45.8	52.0	53.7	51.8	45.4	50.8
ORC 9608	59.4	78.2	61.5	62.5	49.8	60.6
SD94-10	48.7	63.2	50.1	49.3	44.3	55.9
SD94-27	49.7	71.5	56.8	48.1	40.5	50.4
SD94-461	47.3	69.3	51.3	45.8	46.5	50.7
SD94-495	50.4	70.9	56.3	51.2	41.5	51.5
SD94-808	50.3	68.7	59.7	42.7	44.7	53.6
SD94-1410	48.5	68.6	58.6	46.8	38.0	55.9
SD94-1467	45.7	62.4	47.2	46.5	35.9	49.5
U96-2107	55.2	77.6	60.4	61.3	49.0	58.1
U96-2118	56.0	70.3	59.6	61.4	44.8	56.2
U96-2209	55.4	67.9	66.4	61.7	53.2	59.7
U96-2233	56.4	72.7	60.6	59.0	53.7	56.4
U96-2236	56.8	73.5	59.7	56.9	56.4	56.3
U96-2309	55.7	71.6	61.7	58.6	48.5	56.4
U96-2329	55.3	72.0	58.6	46.7	53.4	57.3
U96-2402	55.2	71.1	57.1	55.7	50.2	58.3
U96-2407	54.4	73.3	53.8	56.8	47.8	54.7
U96-2408	57.7	71.4	68.5	59.8	49.7	58.5
U96-2416	56.1	70.7	68.6	53.2	52.2	54.6
U96-2426	56.6	77.6	59.2	54.7	48.6	59.3
U96-2431	54.6	73.5	59.6	57.0	47.3	52.8
U96-2436	57.5	77.2	60.0	61.6	50.5	51.2
U96-3429	52.9	66.0	50.8	51.4	51.5	51.2
C.V. (%)		6.3	9.5	5.7	7.3	6.7
L.S.D. (5%)		9.3	11.1	6.2	7.2	7.5
Row Sp. (In.)		27	27	30	24	30
Rows/Plot		4	4	4	4	4
Reps		2	2	2	2	2

PRELIMINARY TEST IIB, 1997

Strain	YIELD (bu/a)						
	Hart- ington NE	McCool Jct. NE	Adelphia NJ	Hoytville OH	Woodslee Ont.	Beres- ford SD	Brook- ings SD
IA2008R	55.9	66.1	44.0	47.4	53.8	60.8	37.2
IA2021 (II)	58.1	71.5	38.5	44.2	54.1	64.1	38.5
IA2022 (L)	60.3	71.1	40.0	50.3	49.6	67.3	38.5
IA2036 (SCN)	49.2	59.5	37.4	47.7	41.6	55.8	35.6
Marcus 95 (I)	44.5	64.0	25.7	43.2	48.6	65.0	37.2
LG92-1255	56.3	63.2	42.9	46.6	51.3	64.8	36.1
LG93-7054	54.2	64.1	42.5	48.9	49.6	62.8	32.5
LN93-5328	57.2	64.2	46.2	48.7	49.7	61.7	37.7
LN93-12893	43.1	67.2	43.3	50.2	48.8	61.4	36.7
LN93-13473	47.0	66.5	44.0	52.6	53.9	64.4	33.8
LN93-16410	54.8	70.3	40.7	45.6	52.1	53.7	35.2
LN94-8462	56.3	64.7	46.6	50.8	46.8	58.4	34.3
LN94-9065	57.3	62.8	42.2	45.8	47.6	56.0	37.4
M90-206002	56.2	64.4	34.5	46.3	48.7	57.8	39.1
ORC 9605	26.7	58.4	29.7	40.1	50.6	53.7	36.7
ORC 9608	63.4	69.0	49.5	56.4	60.6	59.0	41.8
SD94-10	49.9	68.4	34.5	41.7	49.8	51.4	26.1
SD94-27	34.4	65.6	34.1	50.3	51.7	56.6	36.7
SD94-461	41.4	60.7	31.6	38.4	47.1	49.2	35.2
SD94-495	48.0	64.3	34.8	47.4	51.8	53.4	34.2
SD94-808	41.7	62.3	37.0	45.4	51.4	59.2	36.7
SD94-1410	40.7	65.1	36.7	41.9	45.6	49.0	34.8
SD94-1467	34.3	59.2	33.0	46.0	45.7	54.5	33.7
U96-2107	59.0	67.8	38.5	48.9	51.5	52.5	37.2
U96-2118	55.8	68.7	45.5	53.6	55.8	61.0	39.4
U96-2209	59.8	65.2	43.6	47.7	49.4	57.9	32.5
U96-2233	60.3	69.9	46.2	51.5	45.4	65.6	35.6
U96-2236	57.5	73.9	42.2	52.8	49.1	64.4	39.4
U96-2309	60.0	69.9	42.5	49.4	52.8	63.0	34.3
U96-2329	62.0	70.4	41.8	47.6	51.4	63.6	38.3
U96-2402	65.6	66.3	46.9	46.4	49.1	57.4	37.9
U96-2407	56.5	71.0	42.5	51.8	48.7	60.0	36.1
U96-2408	55.9	71.0	48.3	48.0	53.4	68.0	40.4
U96-2416	56.2	72.6	40.3	51.4	50.4	67.4	35.2
U96-2426	56.5	72.9	44.4	44.3	52.9	67.9	40.4
U96-2431	57.6	68.2	46.2	52.9	52.5	47.6	39.9
U96-2436	65.1	71.2	47.7	52.8	53.9	60.8	37.8
U96-3429	58.9	71.1	43.6	48.4	48.6	55.3	38.1
C.V. (%)	9.6	6.1	8.9	6.6	6.1	6.4	8.0
L.S.D. (5%)	10.3	8.2	7.3	4.4	5.2	7.6	5.9
Row Sp. (In.)	30	30	30	30	24	30	30
Rows/Plot	4	4	4	4	4	4	4
Reps	2	2	2	2	2	2	2

PRELIMINARY TEST IIB, 1997

Strain	YIELD RANK					
	Yield Rank	Ames IA	Hubbard IA	Urbana IL	Lafayette IN	Ingham County MI
IA2008R	20	30	10	17	25	19
IA2021 (II)	16	5	9	31	23	2
IA2022 (L)	6	12	6	23	3	8
IA2036 (SCN)	31	35	24	28	17	11
Marcus 95 (I)	33	27	21	38	29	29
LG92-1255	22	19	31	20	27	16
LG93-7054	23	28	5	19	27	26
LN93-5328	12	34	4	7	4	24
LN93-12893	18	9	22	6	1	25
LN93-13473	26	33	32	14	20	38
LN93-16410	24	10	36	22	11	9
LN94-8462	21	29	26	7	16	28
LN94-9065	28	32	38	28	11	35
M90-206002	27	17	30	30	34	20
ORC 9605	37	38	29	24	30	33
ORC 9608	1	1	8	1	14	1
SD94-10	34	36	35	27	33	16
SD94-27	32	15	25	32	36	35
SD94-461	36	23	33	36	26	34
SD94-495	29	20	27	26	35	30
SD94-808	30	24	14	37	32	23
SD94-1410	35	25	19	33	37	16
SD94-1467	38	37	37	35	38	37
U96-2107	14	2	12	5	18	7
U96-2118	9	22	16	4	31	15
U96-2209	11	26	3	2	7	4
U96-2233	6	11	10	10	5	12
U96-2236	4	6	14	13	2	14
U96-2309	10	14	7	11	20	12
U96-2329	12	13	19	34	6	10
U96-2402	14	18	23	16	11	6
U96-2407	18	8	28	14	22	21
U96-2408	2	16	2	9	15	5
U96-2416	8	21	1	21	8	22
U96-2426	5	2	18	18	19	3
U96-2431	17	6	16	12	23	26
U96-2436	3	4	13	3	10	31
U96-3429	25	31	34	25	9	31

PRELIMINARY TEST IIB, 1997

YIELD RANK

Strain	Hart- ington NE	McCool Jct. NE	Adelphia NJ	Hoytville OH	Woodslee Ont.	Beres- ford SD	Brook- ings SD
IA2008R	23	22	11	23	6	17	16
IA2021 (II)	11	4	26	33	3	10	8
IA2022 (L)	5	6	25	11	23	3	8
IA2036 (SCN)	28	36	28	20	35	28	25
Marcus 95 (I)	31	31	38	34	31	6	16
LG92-1255	19	32	16	25	17	7	24
LG93-7054	26	30	17	15	22	13	36
LN93-5328	15	29	6	17	21	14	14
LN93-12893	32	19	15	13	27	15	19
LN93-13473	30	20	11	6	5	8	34
LN93-16410	25	11	23	30	11	31	27
LN94-8462	18	26	5	10	34	22	31
LN94-9065	14	33	20	29	32	27	15
M90-206002	20	27	32	27	28	24	7
ORC 9605	38	38	37	37	18	31	19
ORC 9608	3	14	1	1	1	21	1
SD94-10	27	16	32	36	20	35	38
SD94-27	36	23	34	11	13	26	19
SD94-461	34	35	36	38	33	36	27
SD94-495	29	28	31	23	12	33	33
SD94-808	33	34	29	31	15	20	19
SD94-1410	35	25	30	35	37	37	30
SD94-1467	37	37	35	28	36	30	35
U96-2107	9	18	26	15	14	34	16
U96-2118	24	15	9	2	2	16	5
U96-2209	8	24	13	20	24	23	36
U96-2233	6	12	6	8	38	5	25
U96-2236	13	1	20	4	26	8	5
U96-2309	7	13	17	14	9	12	31
U96-2329	4	10	22	22	15	11	10
U96-2402	1	21	4	26	25	25	12
U96-2407	17	9	17	7	29	19	23
U96-2408	22	8	2	19	7	1	3
U96-2416	21	3	24	9	19	3	27
U96-2426	16	2	10	32	8	2	2
U96-2431	12	17	6	3	10	38	4
U96-2436	2	5	3	4	4	17	13
U96-3429	10	7	13	18	30	29	11

PRELIMINARY TEST IIB, 1997

MATURITY (date)

Strain	Mean 11 Tests	Ames IA	Hubbard IA	Urbana IL	Lafay- ette IN	Ingham County MI
IA2008R	1.0	1		1	-1	6
IA2021 (II)	9/22	09/11		09/10	09/14	09/29
IA2022 (L)	5.1	6		3	4	8
IA2036 (SCN)	-0.1	2		-5	0	3
Marcus 95 (I)	-1.7	0		-4	-1	0
LG92-1255	5.8	7		7	4	7
LG93-7054	4.9	5		7	4	9
LN93-5328	5.9	7		9	5	8
LN93-12893	6.7	8		8	4	9
LN93-13473	7.0	9		8	8	9
LN93-16410	4.5	4		4	3	8
LN94-8462	7.5	9		12	6	9
LN94-9065	4.4	6		7	4	8
M90-206002	1.6	1		2	2	3
ORC 9605	-1.5	-4		-1	-3	3
ORC 9608	5.7	7		8	3	9
SD94-10	0.1	-1		1	-1	3
SD94-27	-0.6	-2		-2	-2	2
SD94-461	-1.1	-1		-3	-1	3
SD94-495	0.5	1		0	0	3
SD94-808	-2.5	-3		-10	-5	3
SD94-1410	-3.1	-4		-8	-6	2
SD94-1467	-4.5	-6		-7	-5	-2
U96-2107	4.4	6		8	4	3
U96-2118	6.5	8		8	7	7
U96-2209	4.6	6		8	6	5
U96-2233	3.9	4		5	3	5
U96-2236	6.9	8		8	7	10
U96-2309	5.9	7		9	4	7
U96-2329	2.8	1		-1	2	5
U96-2402	2.9	3		5	1	5
U96-2407	1.1	3		1	0	4
U96-2408	5.1	6		6	4	4
U96-2416	3.9	5		2	4	7
U96-2426	5.0	7		6	4	7
U96-2431	3.8	4		3	3	8
U96-2436	6.5	8		8	7	10
U96-3429	4.2	6		6	4	7
Date Planted	05/20	05/13		04/29	05/15	05/27
Days to Mature	124.5	121		134	122	125

PRELIMINARY TEST IIB, 1997

MATURITY (date)

Strain	Hart- ington NE	McCool Jct. NE	Adelphia NJ	Hoytville OH	Woodslee Ont.	Beres- ford SD	Brook- ings SD
IA2008R	1	2	2	0	1	-2	0
IA2021 (II)	09/28	09/17	09/28	09/29	10/05	09/26	09/20
IA2022 (L)	3	8	5	3	3	7	6
IA2036 (SCN)	2	0	-1	-3	1	1	-1
Marcus 95 (I)	-2	-2	-2	-2	-1	-3	-2
LG92-1255	4	8	6	3	2	7	9
LG93-7054	2	8	3	0	2	5	9
LN93-5328	3	9	5	4	3	6	6
LN93-12893	4	10	5	7	3	8	8
LN93-13473	4	9	5	4	5	6	10
LN93-16410	2	8	6	4	5	-2	7
LN94-8462	3	9	8	5	4	7	10
LN94-9065	1	5	5	3	2	1	6
M90-206002	1	7	4	-1	1	-2	0
ORC 9605	-1	-1	-1	-2	-1	-3	-2
ORC 9608	3	8	6	4	2	7	6
SD94-10	1	2	1	-2	-1	-2	0
SD94-27	0	3	1	-3	0	-4	0
SD94-461	0	0	-1	-3	-1	-4	-1
SD94-495	0	1	3	-2	1	-2	0
SD94-808	0	-1	-3	-3	-1	-2	-2
SD94-1410	-4	-1	-3	-4	-2	-3	-1
SD94-1467	-6	-2	-5	-3	-5	-5	-4
U96-2107	4	9	4	0	1	7	2
U96-2118	2	9	5	6	4	9	6
U96-2209	3	8	5	2	1	1	6
U96-2233	3	7	1	-1	3	7	6
U96-2236	3	9	5	7	3	7	9
U96-2309	2	8	4	6	4	8	6
U96-2329	2	4	6	0	1	9	2
U96-2402	2	7	2	1	1	1	4
U96-2407	1	1	0	0	0	0	2
U96-2408	4	8	7	3	2	6	6
U96-2416	3	7	4	4	1	1	5
U96-2426	3	9	6	5	1	2	5
U96-2431	1	4	8	3	2	1	5
U96-2436	4	10	7	6	4	3	4
U96-3429	2	8	5	0	3	1	4
Date Planted	05/22	05/15	06/09	06/11	06/11	05/10	05/05
Days to Mature	129	125	111	110	116	139	138

PRELIMINARY TEST IIB, 1997

LODGING (score)

Strain	Mean 12 Tests	Ames IA	Hubbard IA	Urbana IL	Lafay- ette IN	Ingham County MI
IA2008R	1.9	1.6	2.8	1.8	1.0	2.5
IA2021 (II)	1.5	1.3	2.2	1.3	1.0	2.0
IA2022 (L)	1.7	1.2	2.0	1.5	1.0	2.5
IA2036 (SCN)	2.3	2.0	3.6	2.0	1.3	3.0
Marcus 95 (I)	1.5	1.3	2.5	1.0	1.0	2.0
LG92-1255	1.7	1.3	2.3	1.3	1.0	3.0
LG93-7054	1.8	1.5	2.5	2.5	1.0	2.5
LN93-5328	1.7	1.4	2.4	2.5	1.0	2.0
LN93-12893	1.9	1.3	2.5	2.0	1.0	2.5
LN93-13473	2.8	2.0	2.5	4.8	1.3	4.0
LN93-16410	1.6	1.3	2.0	1.5	1.0	1.5
LN94-8462	1.5	1.2	2.1	1.0	1.0	2.0
LN94-9065	1.9	1.5	2.0	2.5	1.3	3.0
M90-206002	1.6	1.2	3.1	1.8	1.0	1.5
ORC 9605	1.5	1.1	2.7	1.5	1.0	2.0
ORC 9608	1.8	1.3	1.9	2.3	1.0	2.5
SD94-10	1.7	1.3	2.7	1.8	1.0	2.0
SD94-27	1.7	1.5	2.2	2.0	1.0	2.0
SD94-461	1.4	1.5	2.3	1.3	1.0	1.5
SD94-495	1.9	1.6	3.0	2.3	1.0	2.0
SD94-808	2.0	1.7	3.1	2.0	1.0	2.5
SD94-1410	1.6	1.3	2.3	1.8	1.0	1.5
SD94-1467	1.4	1.3	1.8	1.3	1.0	1.5
U96-2107	1.4	1.1	1.8	1.5	1.0	1.5
U96-2118	1.7	1.2	1.9	2.0	1.0	2.5
U96-2209	1.3	1.1	1.6	1.0	1.0	1.0
U96-2233	1.2	1.2	1.5	1.3	1.0	1.0
U96-2236	1.3	1.1	1.9	1.0	1.0	2.0
U96-2309	1.6	1.2	1.9	1.3	1.0	1.0
U96-2329	1.8	1.4	2.4	1.3	1.0	2.5
U96-2402	1.6	1.2	1.9	1.8	1.0	2.5
U96-2407	1.3	1.2	1.8	1.0	1.0	1.5
U96-2408	1.5	1.2	2.2	1.0	1.0	1.5
U96-2416	1.6	1.4	2.2	1.3	1.0	3.0
U96-2426	1.7	1.3	1.9	2.0	1.0	2.0
U96-2431	1.6	1.2	2.0	1.3	1.0	2.5
U96-2436	1.4	1.2	1.9	1.3	1.0	2.0
U96-3429	1.7	1.2	2.2	1.8	1.0	2.5

PRELIMINARY TEST IIB, 1997

Strain	LODGING (score)						
	Hart- ington NE	McCool Jct. NE	Adelphia NJ	Hoytville OH	Woodslee Ont.	Beres- ford SD	Brook- ings SD
IA2008R	2.0	1.0	2.3	1.7	1.5	2.0	2.0
IA2021 (II)	2.0	1.0	2.0	1.6	1.0	1.0	2.0
IA2022 (L)	2.0	1.5	2.3	1.4	1.0	2.0	2.0
IA2036 (SCN)	3.0	2.5	2.8	1.6	2.0	2.0	2.0
Marcus 95 (I)	1.5	1.0	2.8	1.4	1.0	1.0	2.0
LG92-1255	2.0	2.0	2.3	1.5	1.0	1.0	2.0
LG93-7054	2.5	1.5	1.3	1.8	1.0	1.0	2.0
LN93-5328	2.5	2.0	1.5	1.6	1.0	1.0	1.0
LN93-12893	3.0	2.0	1.8	1.6	1.0	2.0	2.0
LN93-13473	2.5	2.0	3.5	2.2	2.0	3.0	4.0
LN93-16410	2.0	1.5	2.0	1.4	1.0	2.0	2.0
LN94-8462	2.0	2.0	1.5	1.5	1.0	1.0	2.0
LN94-9065	2.0	2.0	2.3	1.6	1.0	2.0	2.0
M90-206002	1.5	2.0	1.8	1.4	1.0	1.0	2.0
ORC 9605	1.0	1.5	1.3	1.4	1.0	1.0	2.0
ORC 9608	2.0	1.5	2.0	1.5	1.0	2.0	2.0
SD94-10	2.0	1.5	1.8	1.3	1.0	2.0	2.0
SD94-27	2.0	1.5	1.8	1.4	1.0	2.0	2.0
SD94-461	1.0	1.0	1.3	1.3	1.0	1.0	2.0
SD94-495	2.5	1.5	2.0	1.7	1.0	2.0	2.0
SD94-808	2.0	2.0	2.8	1.7	1.0	2.0	2.0
SD94-1410	1.0	2.0	2.5	1.4	1.0	1.0	2.0
SD94-1467	1.0	1.0	2.5	1.5	1.0	1.0	2.0
U96-2107	2.0	2.0	1.5	1.4	1.0	1.0	1.0
U96-2118	2.0	2.5	1.8	1.4	1.0	1.0	2.0
U96-2209	1.5	1.0	1.5	1.3	1.0	1.0	2.0
U96-2233	1.5	1.0	1.5	1.2	1.0	1.0	1.0
U96-2236	2.0	1.0	1.3	1.6	1.0	1.0	1.0
U96-2309	2.0	1.5	1.5	1.4	2.0	2.0	2.0
U96-2329	2.0	1.0	2.3	1.3	1.0	2.0	3.0
U96-2402	2.0	1.5	1.8	1.5	1.0	1.0	2.0
U96-2407	1.5	1.0	1.5	1.3	1.0	1.0	2.0
U96-2408	2.0	2.0	1.5	1.5	1.0	1.0	2.0
U96-2416	1.5	1.5	2.0	1.5	1.0	1.0	2.0
U96-2426	2.0	2.0	2.3	1.5	1.0	1.0	2.0
U96-2431	1.5	1.5	2.3	1.5	1.0	1.0	2.0
U96-2436	2.0	1.0	1.5	1.6	1.0	1.0	1.0
U96-3429	2.0	2.0	1.5	1.4	1.0	2.0	2.0

PRELIMINARY TEST IIB, 1997

PLANT HEIGHT (inches)

Strain	Mean 12 Tests	Ames IA	Hubbard IA	Urbana IL	Lafay- ette IN	Ingham County MI
IA2008R	35	40	35	37	31	36
IA2021 (II)	29	35	33	29	25	30
IA2022 (L)	36	42	40	35	30	41
IA2036 (SCN)	35	43	40	36	32	34
Marcus 95 (I)	28	34	34	29	26	31
LG92-1255	34	41	38	36	30	38
LG93-7054	35	44	39	38	32	36
LN93-5328	35	46	35	38	31	36
LN93-12893	34	41	40	35	31	36
LN93-13473	38	47	40	38	32	44
LN93-16410	35	42	35	37	30	34
LN94-8462	35	45	39	37	30	34
LN94-9065	35	45	38	38	33	37
M90-206002	30	38	35	33	28	32
ORC 9605	32	38	37	33	30	32
ORC 9608	34	40	36	39	30	37
SD94-10	30	34	34	30	28	32
SD94-27	32	40	34	36	31	33
SD94-461	31	38	38	32	29	30
SD94-495	33	40	33	35	31	34
SD94-808	31	39	37	32	27	29
SD94-1410	31	39	34	33	28	36
SD94-1467	30	35	34	33	26	31
U96-2107	32	42	34	37	26	31
U96-2118	31	39	33	32	29	30
U96-2209	29	36	35	31	24	30
U96-2233	27	34	30	29	23	29
U96-2236	33	42	35	32	30	34
U96-2309	30	34	36	32	27	29
U96-2329	33	39	35	33	30	38
U96-2402	34	39	34	36	30	35
U96-2407	30	37	34	32	26	32
U96-2408	34	40	41	36	30	34
U96-2416	34	42	41	35	33	38
U96-2426	33	43	35	35	30	34
U96-2431	34	42	40	37	30	40
U96-2436	31	40	35	35	27	32
U96-3429	36	44	41	36	32	39

PRELIMINARY TEST IIB, 1997

PLANT HEIGHT (inches)

Strain	Hart- ington NE	McCool Jct. NE	Adelphia NJ	Hoytville OH	Woodslee Ont.	Beres- ford SD	Brook- ings SD
IA2008R	39	38	27	30	30	39	38
IA2021 (II)	32	30	20	27	24	30	29
IA2022 (L)	38	39	29	36	33	37	36
IA2036 (SCN)	39	39	26	32	30	33	37
Marcus 95 (I)	31	28	17	26	23	30	28
LG92-1255	40	36	25	28	31	36	34
LG93-7054	38	38	27	32	29	34	31
LN93-5328	40	40	28	31	32	35	32
LN93-12893	39	35	26	28	27	35	33
LN93-13473	42	39	33	32	34	39	40
LN93-16410	39	40	27	32	33	32	36
LN94-8462	40	35	27	32	31	34	34
LN94-9065	38	35	26	30	30	34	37
M90-206002	35	31	21	27	24	31	30
ORC 9605	33	35	20	28	27	33	32
ORC 9608	39	35	27	36	27	35	32
SD94-10	34	31	22	23	22	32	32
SD94-27	35	37	22	28	25	36	30
SD94-461	37	32	20	28	24	33	28
SD94-495	39	36	23	32	28	38	32
SD94-808	33	33	23	26	24	34	30
SD94-1410	36	35	23	30	22	29	29
SD94-1467	33	30	21	26	25	34	29
U96-2107	38	33	22	30	25	31	30
U96-2118	35	34	21	26	29	33	30
U96-2209	37	28	21	26	24	32	27
U96-2233	31	27	18	29	22	27	24
U96-2236	34	35	25	33	28	31	32
U96-2309	33	30	18	26	30	32	36
U96-2329	37	35	26	28	26	37	31
U96-2402	38	36	27	34	30	29	34
U96-2407	34	32	23	28	25	27	30
U96-2408	38	37	28	33	29	30	33
U96-2416	37	37	27	29	30	30	33
U96-2426	38	36	25	29	31	29	31
U96-2431	38	35	27	29	30	29	34
U96-2436	38	33	23	28	27	29	30
U96-3429	41	40	31	31	31	34	36

PRELIMINARY TEST IIB, 1997

SEED QUALITY (score)

Strain	Mean 11 Tests	Ames IA	Hubbard IA	Urbana IL	Lafay- ette IN	Ingham County MI
IA2008R	1.9	1.0	1.0	1.2	1.0	2.0
IA2021 (II)	1.6	1.5	1.0	1.5	1.0	1.0
IA2022 (L)	1.7	2.0	1.0	1.5	1.0	2.0
IA2036 (SCN)	1.8	1.5	1.0	1.8	1.0	2.0
Marcus 95 (I)	2.0	2.0	1.5	1.8	1.0	1.0
LG92-1255	1.8	2.0	1.5	1.2	1.0	1.0
LG93-7054	1.5	1.0	1.0	1.4	1.0	1.0
LN93-5328	1.6	2.0	1.5	1.2	1.0	1.0
LN93-12893	1.8	1.5	1.0	1.4	2.0	1.0
LN93-13473	1.9	2.5	2.0	1.4	1.0	1.0
LN93-16410	1.6	1.0	1.0	1.7	1.0	1.0
LN94-8462	1.5	1.0	1.0	1.2	1.0	1.0
LN94-9065	1.8	1.5	1.0	1.4	1.0	1.0
M90-206002	1.9	1.0	1.0	1.9	1.0	1.0
ORC 9605	1.8	1.0	1.5	1.7	1.0	1.0
ORC 9608	1.6	1.5	1.0	1.4	1.0	1.0
SD94-10	1.5	1.5	1.0	1.5	1.0	1.0
SD94-27	1.8	1.0	1.0	1.8	1.0	1.0
SD94-461	1.5	1.0	1.5	1.4	1.0	1.0
SD94-495	1.7	1.0	1.0	1.4	1.0	2.0
SD94-808	1.8	1.5	1.0	1.5	1.0	1.0
SD94-1410	2.0	1.0	1.0	1.8	1.0	1.0
SD94-1467	1.6	1.0	1.0	1.2	1.0	1.0
U96-2107	1.9	1.5	1.0	1.9	1.0	1.0
U96-2118	1.6	1.5	1.0	1.4	1.0	1.0
U96-2209	1.6	1.0	1.0	1.4	1.0	1.0
U96-2233	1.6	2.5	1.0	1.2	1.0	1.0
U96-2236	1.5	2.0	1.0	1.2	1.0	1.0
U96-2309	1.7	1.5	1.0	1.2	1.0	2.0
U96-2329	1.9	1.5	1.5	1.4	1.0	2.0
U96-2402	1.5	1.5	1.0	1.4	1.0	1.0
U96-2407	1.7	2.0	2.0	1.4	1.0	1.0
U96-2408	1.5	1.0	1.0	1.4	1.0	1.0
U96-2416	1.5	1.0	1.5	1.5	1.0	1.0
U96-2426	1.9	2.0	1.5	1.2	1.0	---
U96-2431	1.9	1.5	2.0	1.4	1.0	1.0
U96-2436	1.6	1.5	1.5	1.2	1.0	1.0
U96-3429	1.6	1.5	1.0	1.8	1.0	1.0

PRELIMINARY TEST IIB, 1997

SEED QUALITY (score)

Strain	Hart- ington NE	McCool Jct. NE	Adelphia NJ	Hoytville OH	Woodslee Ont.	Beres- ford SD	Brook- ings SD
IA2008R	2.0	2.0		2.5	3.0	3.0	2.0
IA2021 (II)	2.5	1.0		2.5	2.0	2.0	2.0
IA2022 (L)	2.0	1.0		2.5	1.0	3.0	2.0
IA2036 (SCN)	2.0	2.0		2.5	1.5	3.0	2.0
Marcus 95 (I)	2.0	2.0		2.5	3.5	3.0	2.0
LG92-1255	2.0	2.0		2.5	1.5	2.0	3.0
LG93-7054	2.0	2.0		2.5	1.0	2.0	2.0
LN93-5328	2.0	2.5		1.5	1.0	2.0	2.0
LN93-12893	2.0	2.0		1.5	1.0	4.0	2.0
LN93-13473	2.0	1.5		2.5	2.0	3.0	2.0
LN93-16410	2.0	2.0		2.5	1.5	3.0	1.0
LN94-8462	2.0	1.5		2.5	1.0	2.0	2.0
LN94-9065	2.0	2.0		2.5	1.5	3.0	3.0
M90-206002	2.0	2.0		2.5	3.0	4.0	2.0
ORC 9605	2.0	2.0		2.5	2.0	4.0	1.0
ORC 9608	2.0	1.5		2.5	1.0	3.0	2.0
SD94-10	2.0	1.5		2.5	1.0	2.0	2.0
SD94-27	2.0	2.0		2.5	2.0	4.0	1.0
SD94-461	2.0	1.5		2.5	1.0	3.0	1.0
SD94-495	2.5	2.0		2.5	2.0	2.0	1.0
SD94-808	2.0	2.0		2.5	2.5	3.0	2.0
SD94-1410	2.0	2.5		2.5	2.0	4.0	3.0
SD94-1467	2.0	2.0		2.5	2.0	2.0	2.0
U96-2107	2.5	2.5		2.5	2.0	3.0	2.0
U96-2118	2.0	1.5		2.5	1.0	3.0	2.0
U96-2209	2.0	2.0		2.5	1.0	3.0	2.0
U96-2233	2.0	1.0		2.5	1.0	2.0	2.0
U96-2236	2.0	2.0		1.5	1.0	2.0	2.0
U96-2309	2.0	1.5		2.5	1.5	3.0	2.0
U96-2329	2.0	2.0		2.5	1.5	3.0	2.0
U96-2402	2.0	1.5		2.5	1.0	2.0	2.0
U96-2407	2.0	1.5		1.5	2.0	2.0	2.0
U96-2408	2.0	1.5		2.5	1.0	2.0	2.0
U96-2416	2.5	1.0		2.5	1.0	2.0	2.0
U96-2426	2.0	2.0		2.5	2.0	2.0	3.0
U96-2431	2.0	1.5		2.5	1.5	3.0	3.0
U96-2436	2.0	1.5		2.5	1.0	2.0	2.0
U96-3429	2.0	1.5		2.5	1.0	2.0	2.0

PRELIMINARY TEST IIB, 1997

SEED SIZE (g/100)

Strain	Mean 11 Tests	Ames IA	Hubbard IA	Urbana IL	Lafay- ette IN	Ingham County MI
IA2008R	14.7	13.3	13.8	15.0	14.0	17.3
IA2021 (II)	17.4	15.7	16.1	16.6	15.3	19.1
IA2022 (L)	15.4	14.3	14.1	15.0	14.3	16.1
IA2036 (SCN)	14.9	14.0	14.7	13.9	14.2	15.8
Marcus 95 (I)	16.8	16.1	16.5	14.8	15.3	18.4
LG92-1255	16.7	15.8	16.9	16.7	15.6	18.8
LG93-7054	15.3	14.9	14.5	16.6	14.2	15.8
LN93-5328	15.9	15.6	16.2	15.8	15.3	17.9
LN93-12893	14.6	14.5	14.7	14.6	15.3	15.1
LN93-13473	15.4	14.1	15.0	15.1	14.7	16.1
LN93-16410	18.9	17.7	19.3	17.9	17.5	20.7
LN94-8462	16.5	15.1	16.0	17.1	15.7	19.2
LN94-9065	20.1	19.7	21.1	20.4	19.5	22.1
M90-206002	16.8	15.5	16.1	15.9	14.4	17.6
ORC 9605	18.4	15.4	17.1	18.7	17.3	21.0
ORC 9608	18.9	17.5	17.8	19.3	18.7	20.0
SD94-10	17.9	15.8	16.4	16.7	15.5	20.0
SD94-27	17.0	15.8	16.4	15.0	14.7	17.6
SD94-461	16.8	15.0	15.0	16.0	14.1	18.5
SD94-495	16.7	15.6	16.1	15.7	14.8	19.2
SD94-808	17.8	16.5	16.9	16.8	16.1	19.5
SD94-1410	17.0	15.8	15.8	16.1	15.0	18.7
SD94-1467	15.7	14.4	14.9	15.9	13.7	16.6
U96-2107	18.4	17.7	18.1	19.2	18.0	20.7
U96-2118	17.2	16.4	16.7	18.2	16.5	18.1
U96-2209	19.6	18.0	20.3	21.3	18.4	21.3
U96-2233	17.3	15.7	16.2	17.9	16.6	18.8
U96-2236	15.2	13.9	14.7	14.9	14.1	16.2
U96-2309	17.7	16.1	17.3	18.5	17.0	18.9
U96-2329	18.0	16.6	17.1	17.0	17.9	19.2
U96-2402	17.8	15.7	17.7	18.5	16.2	20.3
U96-2407	16.2	14.8	16.1	14.8	14.8	16.9
U96-2408	15.5	13.9	15.3	15.9	14.8	15.7
U96-2416	16.2	14.8	15.7	16.3	15.6	17.6
U96-2426	15.0	13.7	14.4	14.2	13.2	---
U96-2431	16.7	16.4	17.7	15.6	15.5	18.2
U96-2436	14.4	13.4	14.0	14.1	12.5	15.5
U96-3429	14.8	13.7	14.3	13.8	13.7	15.4

PRELIMINARY TEST IIB, 1997

	SEED SIZE (g/100)						
	Hart- ington NE	McCool Jct. NE	Adelphia NJ	Hoytville OH	Woodslee Ont.	Beres- ford SD	Brook- ings SD
Strain	NE	NE	NJ	OH	Ont.	SD	SD
IA2008R	13.3	16.0		16.1	16.6	13.6	12.2
IA2021 (II)	17.6	18.1		18.6	21.9	15.6	16.6
IA2022 (L)	14.7	16.0		19.0	17.8	13.9	13.8
IA2036 (SCN)	15.8	15.5		16.6	16.6	13.6	13.0
Marcus 95 (I)	17.1	18.8		17.1	19.7	15.4	15.8
LG92-1255	16.5	17.2		17.1	19.5	14.9	15.0
LG93-7054	16.0	16.5		16.4	16.8	13.8	12.8
LN93-5328	16.2	15.5		16.5	17.3	14.7	13.5
LN93-12893	14.1	15.9		15.0	14.5	14.1	12.6
LN93-13473	14.3	15.7		17.5	18.7	14.4	13.7
LN93-16410	19.8	20.2		19.1	22.1	17.0	16.3
LN94-8462	15.5	16.4		17.7	18.9	14.3	15.1
LN94-9065	20.9	21.3		16.6	23.2	17.8	18.0
M90-206002	16.4	18.1		18.5	20.7	15.7	15.5
ORC 9605	18.0	19.5		19.5	21.9	16.0	17.5
ORC 9608	17.4	19.6		20.3	22.1	18.0	17.7
SD94-10	18.1	19.6		19.2	22.3	16.3	16.7
SD94-27	17.5	18.9		19.0	21.2	15.3	15.9
SD94-461	17.3	19.2		18.8	20.0	15.2	15.6
SD94-495	16.1	17.7		18.0	21.2	13.9	15.2
SD94-808	16.3	19.9		20.6	21.9	15.8	15.9
SD94-1410	17.0	19.9		18.4	19.7	15.4	15.0
SD94-1467	16.0	17.9		17.0	18.3	13.6	14.4
U96-2107	17.6	19.6		20.7	20.9	16.0	14.4
U96-2118	17.2	19.0		18.4	19.3	15.5	14.1
U96-2209	19.7	20.4		21.4	22.2	18.2	14.2
U96-2233	17.2	17.5		19.7	21.0	15.1	14.7
U96-2236	15.3	15.8		16.1	17.7	15.0	13.2
U96-2309	17.3	19.6		19.4	19.9	16.6	13.7
U96-2329	17.5	20.0		19.6	21.6	15.9	16.1
U96-2402	17.5	18.0		18.6	20.9	15.7	16.7
U96-2407	17.6	17.2		19.4	18.8	15.0	13.1
U96-2408	15.2	16.6		19.3	17.5	13.4	13.4
U96-2416	16.2	16.3		17.0	19.0	15.3	14.8
U96-2426	17.3	16.2		18.2	17.3	12.7	12.7
U96-2431	16.9	17.5		17.7	19.2	14.8	14.2
U96-2436	15.3	15.3		15.6	17.2	13.1	11.9
U96-3429	14.5	15.5		16.0	18.5	13.5	13.4

PRELIMINARY TEST IIB, 1997

Strain	PROTEIN (%)					
	Mean 5 Tests	Ames IA	Urbana IL	Lafayette IN	East Lansing MI	Lincoln NE
IA2008R	39.5	39.1	37.8	36.9	42.5	41.0
IA2021 (II)	37.2	37.8	35.7	34.0	39.6	39.1
IA2022 (L)	40.5	41.1	38.0	39.0	42.5	42.0
IA2036 (SCN)	40.5	39.8	38.3	40.1	42.3	41.9
Marcus 95 (I)	39.5	38.6	37.3	38.1	41.8	41.6
LG92-1255	41.1	39.6	40.8	39.6	42.6	42.7
LG93-7054	41.4	40.7	40.8	41.1	41.7	42.5
LN93-5328	41.2	40.9	39.1	40.4	44.1	41.5
LN93-12893	39.8	37.9	38.3	37.8	43.1	42.1
LN93-13473	40.1	40.5	38.2	39.1	41.6	40.9
LN93-16410	40.4	40.5	39.5	39.4	41.6	41.2
LN94-8462	42.4	40.8	43.1	40.7	43.2	44.1
LN94-9065	41.5	40.2	40.3	41.6	43.4	42.2
M90-206002	39.7	38.7	37.6	37.8	42.2	42.2
ORC 9605	40.6	40.6	39.1	38.7	43.0	41.4
ORC 9608	39.2	39.6	36.3	38.0	41.0	41.3
SD94-10	39.8	40.2	38.2	37.7	41.4	41.6
SD94-27	38.7	39.6	37.2	36.6	39.4	40.6
SD94-461	41.6	41.1	39.2	41.0	42.7	43.8
SD94-495	40.0	39.1	36.4	40.0	42.2	42.1
SD94-808	39.8	39.3	39.0	37.8	41.4	41.5
SD94-1410	40.8	41.0	38.9	39.0	42.6	42.7
SD94-1467	39.1	38.9	39.2	35.5	41.2	40.5
U96-2107	40.6	40.8	39.0	39.1	42.3	41.9
U96-2118	40.2	40.2	38.8	38.9	41.1	42.0
U96-2209	40.9	39.8	39.9	40.4	42.4	41.9
U96-2233	39.2	38.6	38.3	38.6	38.7	41.6
U96-2236	38.0	37.0	37.3	36.2	40.3	39.2
U96-2309	40.4	40.1	38.5	40.4	41.2	41.7
U96-2329	40.7	40.7	38.2	39.3	43.8	41.7
U96-2402	40.6	39.6	40.3	40.2	40.3	42.6
U96-2407	40.3	40.2	38.0	39.7	41.7	41.8
U96-2408	40.0	39.6	37.5	38.7	42.3	41.8
U96-2416	40.6	39.3	39.8	40.0	43.2	40.7
U96-2426	38.9	38.5	36.8	38.0		42.4
U96-2431	39.8	40.4	37.8	39.0	41.4	40.5
U96-2436	38.1	36.9	35.1	37.2	40.4	41.0
U96-3429	39.7	38.5	38.2	38.6	42.3	40.9

PRELIMINARY TEST IIB, 1997

Strain	OIL (%)					
	Mean 5 Tests	Ames IA	Urbana IL	Lafayette IN	East Lansing MI	Lincoln NE
IA2008R	20.3	19.8	22.1	22.0	18.2	19.3
IA2021 (II)	22.1	21.6	23.8	24.4	19.1	21.5
IA2022 (L)	20.5	19.8	22.0	21.3	18.1	21.3
IA2036 (SCN)	19.1	19.5	21.0	20.4	16.9	17.7
Marcus 95 (I)	21.4	21.1	23.5	22.7	19.4	20.4
LG92-1255	20.7	21.2	21.5	21.7	19.4	19.6
LG93-7054	20.0	20.5	21.1	20.4	18.9	19.3
LN93-5328	19.5	20.4	21.2	20.5	15.6	20.0
LN93-12893	20.6	21.9	22.2	22.0	17.5	19.3
LN93-13473	21.3	21.7	22.9	21.3	20.2	20.5
LN93-16410	20.1	19.9	21.2	21.3	18.1	20.2
LN94-8462	19.8	19.7	22.7	20.9	17.2	18.6
LN94-9065	19.9	20.3	21.3	20.5	17.3	20.1
M90-206002	21.0	21.2	22.5	22.9	18.3	20.2
ORC 9605	20.0	19.6	20.8	21.8	17.9	19.9
ORC 9608	20.3	20.5	22.2	22.2	17.3	19.5
SD94-10	20.8	20.5	21.9	22.4	18.4	20.7
SD94-27	21.0	20.3	22.6	23.0	19.3	19.9
SD94-461	20.2	20.4	21.3	21.5	19.1	18.6
SD94-495	20.8	20.8	23.0	22.0	18.3	19.7
SD94-808	20.4	20.3	20.9	22.1	18.8	19.8
SD94-1410	19.4	19.8	20.1	20.5	17.8	19.0
SD94-1467	20.6	20.7	21.1	22.8	18.3	20.2
U96-2107	19.6	19.7	20.9	21.0	17.9	18.5
U96-2118	20.6	20.7	22.0	22.1	18.5	19.8
U96-2209	20.3	20.3	21.2	20.8	19.6	19.4
U96-2233	20.5	20.5	21.6	21.8	18.2	20.4
U96-2236	20.5	21.3	22.1	21.8	17.5	19.9
U96-2309	20.8	21.0	21.9	21.4	19.0	20.8
U96-2329	19.6	19.7	21.0	21.2	16.5	19.4
U96-2402	20.7	21.5	21.6	21.1	19.1	20.2
U96-2407	20.1	19.8	21.5	21.4	18.1	19.9
U96-2408	20.2	20.5	21.9	21.7	17.6	19.4
U96-2416	20.6	21.2	22.1	22.0	18.5	19.4
U96-2426	20.8	20.5	22.0	21.6		19.2
U96-2431	19.9	20.1	21.1	20.5	17.7	20.0
U96-2436	20.6	20.9	22.4	21.2	18.0	20.7
U96-3429	21.2	21.7	22.4	22.6	18.6	20.9

Uniform Test III, 1997

	Strain	Parentage	Previous Testing	Generation Compositd	Unique Traits
1.	Charleston (dt1)	HC74-634RE x HC78-676	8	F5	dt1
2.	IA2022 (L)	Asgrow A3205 x Dairyland DSR 304	1	F5	
3.	IA3004 (BSR)	Northrup King S23-03 x A86-301024	UT III 94	F5	BSR
4.	IA3005 (SCN)	L82C-1212 x Kenwood	2	?	SCN
5.	Iroquois (III)	LN81-1029 x Asgrow A2943	5	F5	Rps?
6.	Macon (L)	Sherman x Resnik	4	F5	SCN
7.	A94-774021	Jacques J285 x Northrup King S29-39	1	F5	
8.	A95-682026	Pioneer P9273 x A89-144036	PT IIIA	F5	BSR
9.	HC92-984	HC84-2556 x HC78-676BC	PT IIIB	F5	dt1
10.	HC92-1606	HC83-4523 x Resnik	PT IIA	F5	Dt1
11.	HF93-035	HM8632 x A86-204022	1	F5	Rps3
12.	K1351	K1161 x Edison	PT IIIB	F5	
13.	LN92-10855	Jack x Asgrow A3205	SCN III	F5	SCN
14.	LN93-5265	LN84-15336 x A86-301024	PT IIIB	F5	
15.	LN93-7027	L84-6189 x Bass	PT IIIB	F5	
16.	LN93-13684	Jack x Chapman	SCN PIII	F5	SCN
17.	LN94-10470	Jack x Hartwig	SCN PIII	F5	SCN
18.	U94-2306	Holt x Dairyland DSR 304	1	F7	
19.	U94-3412	Parker x Holt	1	F7	
20.	U95-3135	MSBP1	PT IIIA	F7	
21.	U95-3213	MSBP1	PT IIIA	F7	
22.	U95-3231	MSBP1	PT IIIA	F7	

UNIFORM TEST III, 1997

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	<u>Chlorosis</u>	<u>Emergence</u>	<u>Shattering</u>
		Score Ames	Score Ames	Score Manhattan
Charleston (dt1)	PTTnSYBlEpD	2.7	4.0	1.0
IA2022 (E)	PGBrSYBlEpI	3.7	1.0	2.0
IA3004 (BSR)	PGBrSYIbEpI	3.7	4.0	2.0
IA3005 (SCN)	WBrDYBlEpI	3.5	2.0	2.0
Iroquois (III)	PGBrDYIbepI	3.2	4.0	2.0
Macon (L)	WTTnSYBlEpI	3.1	3.0	2.0
A94-774021	PTTnDYGrepD	2.0	1.0	2.0
A95-682026	PTBrIYBlHD	2.3	1.0	2.0
HC92-984	PTBrDYBlEpD	3.0	2.0	2.0
HC92-1606	WTTnSYBlHI	3.6	1.0	2.0
HF93-035	PGBrSYGrepI	3.6	2.0	2.0
K1351	PTTnDYBlEpI	3.1	1.0	2.0
LN92-10855	PGBrDYLBfepI	3.7	2.0	2.0
LN93-5265	PGBrSYIbepI	3.3	1.0	2.0
LN93-7027	WTTnDYBlHI	3.6	1.0	2.0
LN93-13684	PGBrDYBfepI	2.6	2.0	2.0
LN94-10470	WGBrSYYHI	3.2	1.0	2.0
U94-2306	WGBrDYBlEpI	3.6	1.0	2.0
U94-3412	WGTnDYBlEpI	2.6	1.0	2.0
U95-3135	PGTnDYIbepI	3.3	1.0	2.0
U95-3213	PGTnDYIbEpI	4.0	1.0	2.0
U95-3231	PGTnDYBfepI	3.2	1.0	2.0

UNIFORM TEST III, 1997

DISEASE DATA

Strain	<u>BSR Resistance</u>		<u>PR</u>		<u>Hard Seed</u>	<u>PS</u>	<u>P&SB</u>
	% Incid.	% Sev.	Ames Race	Laf. Race	Lafayette		
			4	7	%	a %	n %
Charleston (dt1)				S	2	0	4
IA2022 (E)				S	6	42	2
IA3004 (BSR)	85.0	23.0		R	0	1	2
IA3005 (SCN)				S	0	8	0
Iroquois (III)				S	0	10	0
Macon (L)				S	0	28	0
A94-774021	100.0	61.0	S	R	0	0	2
A95-682026	60.0	16.0	S	S	0	13	6
HC92-984			S	R	34	2	4
HC92-1606			S	S	0	4	2
HF93-035			R	S	0	2	0
K1351			S	S	0	4	0
LN92-10855			S	S	0	19	6
LN93-5265			S	S	0	4	4
LN93-7027			S	R	0	5	4
LN93-13684			S	R	2	6	6
LN94-10470			S	R	0	9	2
U94-2306			S	S	0	5	2
U94-3412			S	S	0	0	0
U95-3135			S	S	2	4	0
U95-3213			S	R	4	6	0
U95-3231			S	S	0	8	12

UNIFORM TEST III, 1997

REGIONAL SUMMARY

No. of Tests Strain	Yield	Rank	Maturity	Lodging	Plant Height	Seed Quality	Seed Size	<u>Composition</u>	
	23 bu/a	23 No.	19 Date	23 Score	23 In.	22 Score	21 g/100	Protein 5 %	Oil 5 %
Charleston (dt1)	55.8	8	4.3	1.4	25	1.6	16.0	41.5	19.7
IA2022 (E)	54.7	14	-2.7	1.4	33	2.0	15.6	40.7	19.9
IA3004 (BSR)	55.4	11	-0.6	1.4	33	2.0	16.8	40.6	20.6
IA3005 (SCN)	54.3	16	2.1	1.5	32	2.4	17.7	40.1	20.4
Iroquois (III)	55.4	11	9/23	1.3	34	1.8	15.9	40.5	20.5
Macon (L)	57.3	3	4.7	1.4	33	1.8	17.3	40.1	20.7
A94-774021	58.1	1	1.3	1.2	28	1.9	16.1	39.5	20.8
A95-682026	54.5	15	0.7	1.6	30	2.0	16.2	38.5	21.4
HC92-984	55.7	10	3.4	1.2	24	1.8	16.1	41.3	19.9
HC92-1606	53.6	18	1.7	1.5	33	1.8	16.0	40.9	21.3
HF93-035	51.4	22	-0.9	1.6	32	2.6	20.4	40.4	21.2
K1351	53.8	17	4.9	1.5	33	1.8	14.5	41.0	20.3
LN92-10855	55.8	8	4.9	1.8	39	2.2	15.0	39.8	20.7
LN93-5265	56.1	7	3.5	1.4	35	1.9	16.3	40.6	20.1
LN93-7027	53.0	19	2.6	1.5	32	1.7	15.7	41.4	20.5
LN93-13684	52.6	20	3.2	1.9	35	2.1	16.4	41.3	20.6
LN94-10470	52.6	20	6.3	2.2	39	1.9	13.3	40.5	19.8
U94-2306	58.1	1	2.1	1.4	34	1.8	15.7	41.0	20.6
U94-3412	56.4	6	3.3	1.5	32	1.7	15.3	40.0	20.7
U95-3135	56.6	5	2.9	1.6	32	2.1	15.9	38.9	21.1
U95-3213	54.9	13	1.8	2.2	33	2.0	17.7	39.2	21.0
U95-3231	56.9	4	4.5	1.5	32	1.9	17.4	40.9	20.8

127.4 Days After Planting

UNIFORM TEST III, 1997

1996-1997 2-YEAR MEAN

No. of Tests Strain	Yield	Rank	Maturity	Lodging	Plant Height	Seed Quality	Seed Size	<u>Composition</u>	
	43 bu/a	43 No.	38 Date	45 Score	45 In.	43 Score	43 g/100	10 %	10 %
IA2022 (II)	52.6	7	-2.4	1.5	33	1.8	15.7	41.1	20.3
IA3005 (SCN)	54.0	5	2.1	1.6	31	2.2	17.7	40.7	20.5
Iroquois (III)	53.7	6	9/25.0	1.3	33	1.6	15.7	41.2	20.6
Macon (L)	54.9	3	4.1	1.4	31	1.6	17.5	40.6	20.7
A94-774021	56.7	1	1.8	1.1	27	1.8	15.8	39.7	20.7
HF93-035	52.0	8	-0.7	1.7	32	2.2	20.0	40.9	21.2
U94-2306	56.4	2	1.3	1.4	33	1.6	15.5	41.4	20.8
U94-3412	54.5	4	3.1	1.5	31	1.5	15.2	40.9	20.7

120.8 Days After Planting

UNIFORM TEST III, 1997

YIELD (bu/a)

Strain	Mean 23 Tests	George- town DE	Fair field IA	Griswold IA	Stuart IA	Newton IL	Ridg- way IL
Charleston (dt1)	55.8	47.7	68.8	56.1	51.2	40.3	49.9
IA2022 (E)	54.7	47.1	71.6	53.5	47.1	44.0	50.3
IA3004 (BSR)	55.4	56.0	75.0	55.0	48.6	46.5	46.9
IA3005 (SCN)	54.3	56.2	74.1	50.6	42.4	55.3	56.3
Iroquois (III)	55.4	57.5	67.6	52.2	52.2	44.8	50.0
Macon (L)	57.3	52.9	71.3	54.1	45.9	47.9	54.4
A94-774021	58.1	53.0	75.8	54.8	45.2	51.8	56.5
A95-682026	54.5	46.4	64.6	51.5	43.7	45.3	49.4
HC92-984	55.7	49.5	68.4	50.8	48.9	44.0	47.4
HC92-1606	53.6	61.0	67.1	50.2	46.3	43.1	47.7
HF93-035	51.4	40.6	66.6	46.4	44.1	40.8	49.0
K1351	53.8	47.4	65.8	48.0	48.1	41.9	56.6
LN92-10855	55.8	62.9	71.3	45.3	48.4	53.2	51.5
LN93-5265	56.1	53.5	68.3	53.2	50.8	48.3	53.1
LN93-7027	53.0	43.9	64.1	49.2	49.1	42.5	50.8
LN93-13684	52.6	44.6	69.9	41.4	46.9	49.5	47.2
LN94-10470	52.6	34.3	65.2	42.7	46.6	52.2	51.2
U94-2306	58.1	56.4	76.9	52.4	48.5	49.9	55.0
U94-3412	56.4	37.2	71.4	54.0	43.8	43.8	52.8
U95-3135	56.6	60.2	71.9	51.2	50.8	47.3	51.1
U95-3213	54.9	46.3	66.2	51.9	49.0	41.8	50.3
U95-3231	56.9	41.9	73.9	50.9	47.2	49.9	44.9
C.V. (%)		8.0	5.5	8.1	5.6	9.7	9.1
L.S.D. (5%)		14.6	6.3	6.8	4.5	7.5	7.7
Row Sp. (in.)		15	27	27	27	30	30
Rows/Plot		5	4	4	4	4	4
Reps		3	3	3	3	3	3

UNIFORM TEST III, 1997

YIELD (bu/a)

Strain	Urbana IL	Lafayette IN	Pinney Farm IN	Manhattan KS	Powhattan KS	Topeka KS	Lexington KY
Charleston (dt1)	66.5	45.2	57.5	56.0	37.1	70.5	70.7
IA2022 (E)	59.9	53.3	52.0	60.9	39.8	70.6	59.2
IA3004 (BSR)	54.8	47.0	52.9	52.9	42.0	67.1	63.2
IA3005 (SCN)	62.5	48.4	48.3	52.9	38.9	60.7	59.5
Iroquois (III)	59.9	46.5	55.7	60.1	39.2	59.0	60.6
Macon (L)	66.8	53.6	59.6	60.0	42.5	66.0	68.7
A94-774021	69.3	50.6	57.4	63.7	38.2	71.0	71.1
A95-682026	60.8	52.7	51.8	57.4	37.8	67.1	64.4
HC92-984	64.1	46.7	57.0	58.8	39.2	66.4	70.3
HC92-1606	58.1	45.6	52.4	56.9	39.2	58.5	58.3
HF93-035	56.7	41.5	40.5	58.9	36.4	64.0	63.4
K1351	56.4	52.5	53.7	58.7	38.2	63.4	62.1
LN92-10855	63.2	49.7	45.5	51.9	42.6	62.3	65.7
LN93-5265	62.3	49.7	55.6	58.6	45.0	63.2	65.0
LN93-7027	58.0	50.3	52.9	58.0	40.2	61.0	60.7
LN93-13684	64.7	49.2	46.7	49.4	41.0	56.6	65.7
LN94-10470	61.2	44.7	47.6	51.0	41.7	60.0	62.6
U94-2306	65.5	55.7	58.0	56.6	39.0	65.4	63.4
U94-3412	60.2	53.9	53.6	65.3	39.4	69.4	64.3
U95-3135	63.3	50.4	59.3	55.3	37.3	65.0	64.0
U95-3213	61.4	48.5	51.3	63.3	43.1	67.1	62.7
U95-3231	66.4	53.4	54.1	58.4	43.4	69.2	64.8
C.V. (%)	6.5	6.5	12.0	6.0	7.2	5.7	8.3
L.S.D. (5%)	6.6	5.2	10.3	5.7	4.8	6.0	7.4
Row Sp. (in.)	30	24	26	30	30	30	30
Rows/Plot	4	4	4	4	4	4	4
Reps	3	3	3	3	3	3	3

UNIFORM TEST III, 1997

Strain	YIELD (bu/a)						
	Queens- town MD	Colum- bia MO	Hild- reth NE	McCool Jct. NE	Tekamah NE	Adel- phia NJ	Hoyt- ville OH
Charleston (dt1)	51.9	40.2	72.2	72.0	67.3	50.0	47.1
IA2022 (E)	52.5	36.2	65.0	67.8	67.9	48.6	48.1
IA3004 (BSR)	58.1	33.7	66.0	72.3	69.3	48.8	48.9
IA3005 (SCN)	52.2	41.1	64.7	67.1	56.9	45.8	54.0
Iroquois (III)	60.2	45.7	66.5	71.1	65.1	46.2	50.9
Macon (L)	53.8	46.2	72.1	70.3	59.9	51.6	49.8
A94-774021	59.6	37.5	72.5	70.1	70.3	52.0	49.1
A95-682026	58.9	38.2	60.2	70.0	68.2	47.4	48.1
HC92-984	59.4	36.7	66.9	76.7	73.2	43.7	54.6
HC92-1606	55.9	42.5	61.1	68.2	59.9	45.3	55.8
HF93-035	51.6	40.4	59.7	62.1	65.2	40.4	47.1
K1351	63.0	45.6	60.8	67.4	63.6	47.2	48.6
LN92-10855	61.6	47.0	61.5	73.6	63.2	62.5	45.7
LN93-5265	59.2	47.0	66.8	74.3	68.7	46.7	46.7
LN93-7027	48.7	43.6	61.9	64.7	69.2	48.8	48.5
LN93-13684	55.9	45.5	59.6	64.7	58.6	45.8	45.4
LN94-10470	59.0	45.6	63.7	69.4	59.9	45.3	48.3
U94-2306	65.9	46.6	65.7	72.2	66.2	52.0	48.4
U94-3412	64.5	44.8	69.8	69.2	67.8	52.9	50.6
U95-3135	58.6	46.6	66.1	75.3	67.1	49.7	47.7
U95-3213	56.1	42.9	64.7	73.3	66.0	49.5	48.6
U95-3231	69.8	41.5	72.6	66.0	67.2	54.4	51.3
C.V. (%)	9.8	7.6	4.9	6.4	5.6	14.1	6.3
L.S.D. (5%)	9.3	5.3	5.3	7.4	6.1	11.3	3.6
Row Sp. (in.)	30	30	30	30	30	30	30
Rows/Plot	4	4	4	4	4	4	4
Reps	3	3	3	3	3	3	3

UNIFORM TEST III, 1997

Strain	YIELD (bu/a)		
	Plain City OH	So. Charl- eston OH	Wooster OH
Charleston (dt1)	65.1	73.8	26.0
IA2022 (E)	65.6	69.4	28.1
IA3004 (BSR)	66.2	77.4	25.4
IA3005 (SCN)	67.3	72.7	20.9
Iroquois (III)	68.1	71.7	24.2
Macon (L)	68.3	77.6	24.3
A94-774021	61.2	77.0	28.2
A95-682026	67.6	73.5	28.3
HC92-984	59.6	81.2	17.8
HC92-1606	67.1	67.2	26.4
HF93-035	63.9	70.8	32.6
K1351	56.4	72.8	18.6
LN92-10855	60.9	71.6	22.9
LN93-5265	63.0	73.0	19.1
LN93-7027	58.5	71.4	23.5
LN93-13684	64.3	72.4	23.9
LN94-10470	59.7	70.1	26.9
U94-2306	71.5	78.2	26.3
U94-3412	67.5	75.1	27.0
U95-3135	67.1	70.8	25.4
U95-3213	57.8	69.4	31.4
U95-3231	65.8	77.1	23.7
C.V. (%)	11.0	5.1	14.0
L.S.D. (5%)	ns	6.1	4.2
Row Sp. (in.)	15	7.5	30
Rows/Plot	6	8	4
Reps	3	3	3

UNIFORM TEST III, 1997

YIELD RANK

Strain	Yield Rank	George- town DE	Fair field IA	Griswold IA	Stuart IA	Newton IL	Ridg- way IL
Charleston (dt1)	8	12	12	1	2	22	15
IA2022 (E)	14	14	7	6	13	14	12
IA3004 (BSR)	11	7	3	2	8	11	21
IA3005 (SCN)	16	6	4	15	22	1	3
Iroquois (III)	11	4	15	9	1	13	14
Macon (L)	3	10	9	4	17	9	5
A94-774021	1	9	2	3	18	4	2
A95-682026	15	15	21	11	21	12	16
HC92-984	10	11	13	14	7	14	19
HC92-1606	18	2	16	16	16	17	18
HF93-035	22	20	17	19	19	21	17
K1351	17	13	19	18	11	19	1
LN92-10855	8	1	9	20	10	2	8
LN93-5265	7	8	14	7	3	8	6
LN93-7027	19	18	22	17	5	18	11
LN93-13684	20	17	11	22	14	7	20
LN94-10470	20	22	20	21	15	3	9
U94-2306	1	5	1	8	9	5	4
U94-3412	6	21	8	5	20	16	7
U95-3135	5	3	6	12	3	10	10
U95-3213	13	16	18	10	6	20	12
U95-3231	4	19	5	13	12	5	22

UNIFORM TEST III, 1997

YIELD RANK

Strain	Urbana IL	Lafayette IN	Pinney Farm IN	Manhattan KS	Powhattan KS	Topeka KS	Lexington KY
Charleston (dt1)	3	20	4	16	21	3	2
IA2022 (E)	16	5	15	4	10	2	21
IA3004 (BSR)	22	16	12	18	6	6	14
IA3005 (SCN)	10	15	18	18	16	18	20
Iroquois (III)	16	18	7	5	12	20	19
Macon (L)	2	3	1	6	5	10	4
A94-774021	1	8	5	2	17	1	1
A95-682026	14	6	16	13	19	6	9
HC92-984	7	17	6	8	12	9	3
HC92-1606	18	19	14	14	12	21	22
HF93-035	20	22	22	7	22	13	12
K1351	21	7	10	9	17	14	17
LN92-10855	9	11	21	20	4	16	5
LN93-5265	11	11	8	10	1	15	7
LN93-7027	19	10	12	12	9	17	18
LN93-13684	6	13	20	22	8	22	5
LN94-10470	13	21	19	21	7	19	16
U94-2306	5	1	3	15	15	11	12
U94-3412	15	2	11	1	11	4	10
U95-3135	8	9	2	17	20	12	11
U95-3213	12	14	17	3	3	6	15
U95-3231	4	4	9	11	2	5	8

UNIFORM TEST III, 1997

YIELD RANK

Strain	Queens- town MD	Colum- bia MO	Hild- reth NE	McCool Jct. NE	Tekamah NE	Adel- phia NJ	Hoyt- ville OH
Charleston (dt1)	20	17	3	8	9	7	18
IA2022 (E)	18	21	12	16	7	12	15
IA3004 (BSR)	13	22	10	6	3	10	9
IA3005 (SCN)	19	15	13	18	22	17	3
Iroquois (III)	6	6	8	9	15	16	5
Macon (L)	17	5	4	10	20	6	7
A94-774021	7	19	2	11	2	4	8
A95-682026	11	18	20	12	6	13	15
HC92-984	8	20	6	1	1	21	2
HC92-1606	15	13	18	15	18	19	1
HF93-035	21	16	21	22	14	22	18
K1351	4	7	19	17	16	14	10
LN92-10855	5	1	17	4	17	1	21
LN93-5265	9	1	7	3	5	15	20
LN93-7027	22	11	16	21	4	10	12
LN93-13684	15	9	22	20	21	18	22
LN94-10470	10	7	15	13	19	19	14
U94-2306	2	3	11	7	12	4	13
U94-3412	3	10	5	14	8	3	6
U95-3135	12	3	9	2	11	8	17
U95-3213	14	12	14	5	13	9	10
U95-3231	1	14	1	19	10	2	4

UNIFORM TEST III, 1997

YIELD RANK

Strain	Plain City OH	So. Charl- eston OH	Wooster OH
Charleston (dt1)	12	8	10
IA2022 (E)	11	20	5
IA3004 (BSR)	9	4	11
IA3005 (SCN)	6	12	19
Iroquois (III)	3	14	14
Macon (L)	2	3	13
A94-774021	16	6	4
A95-682026	4	9	3
HC92-984	19	1	22
HC92-1606	7	22	8
HF93-035	14	17	1
K1351	22	11	21
LN92-10855	17	15	18
LN93-5265	15	10	20
LN93-7027	20	16	17
LN93-13684	13	13	15
LN94-10470	18	19	7
U94-2306	1	2	9
U94-3412	5	7	6
U95-3135	7	17	11
U95-3213	21	20	2
U95-3231	10	5	16

UNIFORM TEST III, 1997

MATURITY (date)

Strain	Mean 19 Tests	George- town DE	Fair field IA	Griswold IA	Stuart IA	Newton IL	Ridg- way IL
Charleston (dtl)	4.3	7			6	2	3
IA2022 (E)	-2.7	0			-5	-3	-2
IA3004 (BSR)	-0.6	0			-1	-2	-2
IA3005 (SCN)	2.1	2			0	3	2
Iroquois (III)	9/23	09/18			09/23	09/11	09/08
Macon (L)	4.7	5			4	8	5
A94-774021	1.3	3			-1	0	0
A95-682026	0.7	0			-1	-2	-1
HC92-984	3.4	7			3	2	1
HC92-1606	1.7	2			2	1	2
HF93-035	-0.9	-1			-2	-3	-2
K1351	4.9	6			7	4	7
LN92-10855	4.9	-1			3	6	4
LN93-5265	3.5	3			3	4	3
LN93-7027	2.6	3			2	1	4
LN93-13684	3.2	2			2	3	2
LN94-10470	6.3	6			3	8	8
U94-2306	2.1	2			0	2	5
U94-3412	3.3	3			4	2	3
U95-3135	2.9	4			4	0	0
U95-3213	1.8	0			0	-2	0
U95-3231	4.5	2			6	3	-1
Date Planted	05/18	05/20			05/16	05/14	05/16
Days to Mature	127.4	121			130	120	115

UNIFORM TEST III, 1997

MATURITY (date)

Strain	Urbana IL	Lafayette IN	Pinney Farm IN	Manhattan KS	Powhattan KS	Topeka KS	Lexington KY
Charleston (dt1)	8	4	2	6			3
IA2022 (E)	-5	-3	-2	-3			-4
IA3004 (BSR)	-4	-1	0	1			0
IA3005 (SCN)	3	-6	1	4			3
Iroquois (III)	09/19	09/20	10/03	09/26			09/16
Macon (L)	8	8	2	4			5
A94-774021	1	2	1	2			0
A95-682026	0	-1	0	4			-1
HC92-984	2	7	1	4			5
HC92-1606	2	4	1	2			1
HF93-035	-2	-3	-1	0			-1
K1351	7	7	3	4			3
LN92-10855	8	7	5	4			5
LN93-5265	6	3	1	4			4
LN93-7027	0	4	2	4			2
LN93-13684	6	4	2	4			2
LN94-10470	10	10	5	5			7
U94-2306	3	2	1	4			2
U94-3412	4	4	2	4			3
U95-3135	4	3	2	4			4
U95-3213	3	1	3	4			5
U95-3231	7	5	4	6			5
Date Planted	04/29	05/15	05/24	05/20			05/12
Days to Mature	143	128	132	129			127

UNIFORM TEST III, 1997

MATURITY (date)

Strain	Queens- town MD	Colum- bia MO	Hild- reth NE	McCool Jct. NE	Tekamah NE	Adel- phia NJ	Hoyt- ville OH
Charleston (dt1)	5	-1	6	6	7	2	5
IA2022 (E)	-4	-7	-2	1	-1	-2	-5
IA3004 (BSR)	-1	-5	-1	2	3	0	0
IA3005 (SCN)	5	0	1	4	6	1	3
Iroquois (III)	10/03	09/19	09/30	09/19	09/26	10/06	10/03
Macon (L)	6	3	3	6	6	2	6
A94-774021	4	-3	2	4	1	2	5
A95-682026	6	-2	3	2	5	1	1
HC92-984	6	-2	5	4	6	2	3
HC92-1606	4	-3	1	1	5	0	4
HF93-035	-1	-5	1	0	4	0	0
K1351	4	1	4	6	5	4	5
LN92-10855	5	1	4	8	7	3	5
LN93-5265	7	1	4	4	6	2	2
LN93-7027	5	1	0	3	5	2	1
LN93-13684	6	2	2	4	7	1	2
LN94-10470	6	3	5	9	6	6	6
U94-2306	6	-1	0	3	5	1	0
U94-3412	7	0	1	4	5	2	4
U95-3135	4	1	5	4	5	0	6
U95-3213	0	-2	3	1	5	0	5
U95-3231	6	3	4	9	6	4	5
Date Planted	06/06	05/06	06/02	05/15	05/19	06/09	06/11
Days to Mature	119	136	120	127	130	119	114

UNIFORM TEST III, 1997

MATURITY (date)

Strain	Plain City OH	So. Charl- eston OH	Wooster OH
Charleston (dt1)	5	6	-1
IA2022 (E)	-3	-3	1
IA3004 (BSR)	0	-3	2
IA3005 (SCN)	4	5	-1
Iroquois (III)	09/24	09/23	09/21
Macon (L)	3	6	0
A94-774021	1	3	-2
A95-682026	1	0	-2
HC92-984	4	6	-2
HC92-1606	2	1	1
HF93-035	-2	0	0
K1351	5	7	5
LN92-10855	6	8	5
LN93-5265	3	5	1
LN93-7027	4	4	2
LN93-13684	3	3	3
LN94-10470	6	8	3
U94-2306	3	2	-1
U94-3412	4	5	2
U95-3135	3	5	-2
U95-3213	4	4	0
U95-3231	5	7	0
Date Planted	05/13	05/06	05/07
Days to Mature	134	140	137

UNIFORM TEST III, 1997

LODGING (score)

Strain	Mean 23 Tests	George- town DE	Fair field IA	Griswold IA	Stuart IA	Newton IL	Ridg- way IL
Charleston (dt1)	1.4	1.0	1.7	1.5	1.3	1.0	1.0
IA2022 (E)	1.4	1.0	1.8	1.6	1.2	1.0	1.0
IA3004 (BSR)	1.4	1.0	2.1	1.4	1.3	1.0	1.0
IA3005 (SCN)	1.5	1.0	2.4	1.5	1.1	1.0	1.5
Iroquois (III)	1.3	1.0	2.0	1.4	1.4	1.0	1.0
Macon (L)	1.4	1.0	1.9	1.6	1.4	1.0	1.2
A94-774021	1.2	1.0	1.4	1.5	1.0	1.0	1.0
A95-682026	1.6	1.0	2.9	1.7	1.1	1.0	1.2
HC92-984	1.2	1.0	1.5	1.5	1.0	1.0	1.0
HC92-1606	1.5	1.0	2.3	1.8	1.4	1.0	1.2
HF93-035	1.6	1.0	2.2	1.7	1.3	1.0	1.3
K1351	1.5	1.0	2.1	1.4	1.2	1.0	1.8
LN92-10855	1.8	1.0	2.7	2.0	1.8	1.5	2.0
LN93-5265	1.4	1.0	2.3	1.4	1.3	1.0	1.2
LN93-7027	1.5	1.0	2.2	1.4	1.3	1.0	1.5
LN93-13684	1.9	1.0	3.1	2.0	1.4	1.3	1.5
LN94-10470	2.2	1.0	3.1	1.9	1.9	1.0	2.2
U94-2306	1.4	1.0	2.1	1.7	1.3	1.0	1.2
U94-3412	1.5	1.0	2.5	1.4	1.1	1.2	1.5
U95-3135	1.6	1.0	2.3	1.7	1.6	1.2	1.8
U95-3213	2.2	1.0	3.1	1.9	1.3	1.5	2.3
U95-3231	1.5	1.0	1.9	1.4	1.2	1.0	1.3

UNIFORM TEST III, 1997

Strain	LODGING (score)						
	Urbana IL	Lafayette IN	Pinney Farm IN	Manhattan KS	Powhattan KS	Topeka KS	Lexington KY
Charleston (dt1)	1.3	1.0	1.0	1.0	1.0	1.0	1.8
IA2022 (E)	1.3	1.0	1.0	1.3	1.0	2.0	1.7
IA3004 (BSR)	1.3	1.0	1.0	1.7	1.0	1.7	1.3
IA3005 (SCN)	1.3	1.0	1.0	1.0	1.0	1.7	1.2
Iroquois (III)	1.0	1.0	1.0	1.0	1.0	1.3	1.3
Macon (L)	1.0	1.0	1.0	1.3	1.0	1.3	1.2
A94-774021	1.2	1.0	1.0	1.0	1.0	1.3	1.0
A95-682026	1.5	1.0	1.0	1.0	1.0	1.7	1.3
HC92-984	1.2	1.0	1.0	1.0	1.0	1.0	1.3
HC92-1606	1.3	1.0	1.0	1.0	1.0	1.7	1.3
HF93-035	1.7	1.0	1.0	1.3	1.0	2.0	1.3
K1351	1.2	1.0	1.2	1.3	1.0	2.0	1.3
LN92-10855	2.0	1.0	1.2	1.7	1.0	2.7	2.0
LN93-5265	1.5	1.0	1.0	1.3	1.0	1.7	1.2
LN93-7027	1.5	1.0	1.3	1.7	1.0	2.0	1.3
LN93-13684	1.8	1.0	1.2	2.7	1.0	2.0	2.5
LN94-10470	3.0	1.7	1.8	2.3	1.3	3.0	2.8
U94-2306	1.3	1.0	1.0	1.0	1.0	1.7	1.3
U94-3412	1.5	1.0	1.0	1.0	1.0	2.0	1.5
U95-3135	1.3	1.0	1.0	1.3	1.0	1.3	2.2
U95-3213	2.2	1.5	1.8	2.3	1.0	3.7	3.5
U95-3231	1.5	1.2	1.0	1.7	1.0	2.0	1.3

UNIFORM TEST III, 1997

LODGING (score)

Strain	Queens- town MD	Colum- bia MO	Hild- reth NE	McCool Jct. NE	Tekamah NE	Adel- phia NJ	Hoyt- ville OH
Charleston (dt1)	2.0	1.0	1.3	1.7	2.0	1.7	1.9
IA2022 (E)	2.3	1.0	1.0	1.7	2.7	1.8	1.4
IA3004 (BSR)	2.0	1.0	1.3	2.0	2.0	2.0	1.4
IA3005 (SCN)	3.3	1.0	2.0	2.0	3.0	2.2	1.5
Iroquois (III)	2.0	1.0	1.0	1.7	2.7	1.5	1.3
Macon (L)	2.0	1.0	2.0	1.0	3.3	1.8	1.4
A94-774021	1.3	1.0	1.0	1.3	1.7	1.2	1.4
A95-682026	3.3	1.0	2.7	1.7	3.0	2.0	1.4
HC92-984	1.7	1.0	1.0	1.0	1.0	1.5	1.5
HC92-1606	2.5	1.0	2.0	1.3	3.0	2.0	1.4
HF93-035	3.0	1.0	2.0	2.0	3.0	1.8	1.5
K1351	2.7	1.0	2.7	2.0	3.0	1.7	1.5
LN92-10855	3.2	1.0	2.7	2.0	2.3	2.3	1.7
LN93-5265	2.3	1.0	2.3	2.3	2.0	1.5	1.5
LN93-7027	2.8	1.0	2.0	1.7	2.0	1.8	1.5
LN93-13684	3.2	1.0	2.7	2.0	2.7	2.5	1.5
LN94-10470	3.5	1.0	4.0	2.3	3.0	2.2	1.9
U94-2306	2.0	1.0	2.0	1.7	2.3	1.5	1.5
U94-3412	2.3	1.0	1.7	1.7	3.0	1.7	1.4
U95-3135	2.5	1.0	2.3	2.3	3.0	1.8	1.6
U95-3213	3.5	1.0	3.0	2.0	3.0	2.5	1.8
U95-3231	2.7	1.0	2.3	1.3	2.7	1.5	1.4

UNIFORM TEST III, 1997

LODGING (score)

Strain	Plain City OH	So. Charl- eston OH	Wooster OH
Charleston (dt1)	1.1	2.3	1.3
IA2022 (E)	1.1	1.0	1.5
IA3004 (BSR)	1.1	1.0	1.2
IA3005 (SCN)	1.1	1.0	1.4
Iroquois (III)	1.2	1.0	1.4
Macon (L)	1.1	1.0	1.6
A94-774021	0.9	1.0	1.4
A95-682026	1.1	1.2	1.4
HC92-984	1.0	1.0	1.3
HC92-1606	1.0	1.0	1.4
HF93-035	1.2	1.3	1.2
K1351	1.1	1.0	1.3
LN92-10855	1.7	1.7	1.3
LN93-5265	0.9	1.0	1.1
LN93-7027	1.2	1.0	1.4
LN93-13684	1.5	1.8	1.2
LN94-10470	2.0	2.2	1.4
U94-2306	1.1	1.0	1.4
U94-3412	1.1	1.2	1.1
U95-3135	1.2	1.3	1.4
U95-3213	1.4	2.8	1.4
U95-3231	1.2	1.3	1.2

UNIFORM TEST III, 1997

PLANT HEIGHT (inches)

Strain	Mean 23 Tests	George- town DE	Fair field IA	Griswold IA	Stuart IA	Newton IL	Ridg- way IL
Charleston (dt1)	25	22	27	24	24	25	23
IA2022 (E)	33	23	39	32	28	33	34
IA3004 (BSR)	33	23	42	34	26	32	34
IA3005 (SCN)	32	23	38	33	27	31	32
Iroquois (III)	34	26	42	34	27	35	34
Macon (L)	33	24	40	35	27	30	34
A94-774021	28	24	36	28	22	28	28
A95-682026	30	26	40	33	24	31	30
HC92-984	24	24	26	22	23	26	21
HC92-1606	33	26	39	34	29	32	35
HF93-035	32	24	38	35	27	31	35
K1351	33	23	39	32	29	33	35
LN92-10855	39	30	44	39	30	42	41
LN93-5265	35	21	43	35	28	35	37
LN93-7027	32	19	39	33	27	31	34
LN93-13684	35	22	43	37	30	34	37
LN94-10470	39	21	44	40	29	41	40
U94-2306	34	20	43	34	28	33	37
U94-3412	32	21	37	32	28	32	34
U95-3135	32	23	39	36	26	33	33
U95-3213	33	23	38	33	27	34	34
U95-3231	32	22	36	34	26	31	31

UNIFORM TEST III, 1997

PLANT HEIGHT (inches)

Strain	Urbana IL	Lafayette IN	Pinney Farm IN	Manhattan KS	Powhattan KS	Topeka KS	Lexington KY
Charleston (dt1)	27	27	29	26	22	25	26
IA2022 (E)	35	33	35	40	30	45	33
IA3004 (BSR)	35	33	34	37	29	45	33
IA3005 (SCN)	35	31	33	32	28	40	30
Iroquois (III)	38	31	37	36	30	44	32
Macon (L)	35	32	34	37	28	42	32
A94-774021	33	26	33	30	25	36	28
A95-682026	33	28	33	31	29	41	27
HC92-984	25	21	28	26	19	24	25
HC92-1606	36	32	37	35	29	42	31
HF93-035	33	31	33	37	31	43	35
K1351	36	32	35	35	32	43	34
LN92-10855	38	40	39	42	35	51	45
LN93-5265	39	33	37	35	30	48	34
LN93-7027	34	32	35	37	30	41	32
LN93-13684	35	36	36	39	32	45	36
LN94-10470	41	37	38	42	37	51	40
U94-2306	35	34	37	35	29	46	32
U94-3412	37	31	36	33	29	40	31
U95-3135	35	30	36	33	27	42	34
U95-3213	35	31	36	35	31	42	35
U95-3231	33	31	36	36	29	42	33

UNIFORM TEST III, 1997

PLANT HEIGHT (inches)

Strain	Queens- town MD	Colum- bia MO	Hild- reth NE	McCool Jct. NE	Tekamah NE	Adel- phia NJ	Hoyt- ville OH
Charleston (dt1)	18	19	27	26	29	19	26
IA2022 (E)	31	26	40	37	42	31	33
IA3004 (BSR)	29	26	39	36	44	29	31
IA3005 (SCN)	30	25	38	37	43	26	32
Iroquois (III)	29	24	43	39	46	30	30
Macon (L)	29	25	41	38	44	29	28
A94-774021	20	21	32	30	36	25	26
A95-682026	29	21	37	33	43	26	26
HC92-984	20	17	23	26	30	17	27
HC92-1606	31	26	38	36	45	30	26
HF93-035	29	25	40	33	42	27	33
K1351	31	26	38	37	43	30	32
LN92-10855	35	29	46	43	54	36	39
LN93-5265	30	27	43	41	51	32	34
LN93-7027	28	24	37	34	41	29	30
LN93-13684	32	29	41	42	47	31	34
LN94-10470	38	32	48	46	48	34	40
U94-2306	32	25	39	39	49	30	32
U94-3412	28	23	38	36	44	29	31
U95-3135	28	23	39	38	45	27	32
U95-3213	30	23	37	36	42	30	33
U95-3231	29	22	37	33	40	30	30

UNIFORM TEST III, 1997

PLANT HEIGHT (inches)

Strain	Plain City OH	So. Charl- eston OH	Wooster OH
Charleston (dt1)	21	26	26
IA2022 (E)	29	31	20
IA3004 (BSR)	30	32	21
IA3005 (SCN)	29	30	25
Iroquois (III)	32	34	21
Macon (L)	29	33	27
A94-774021	27	29	26
A95-682026	29	30	21
HC92-984	22	28	24
HC92-1606	31	32	26
HF93-035	28	33	21
K1351	31	31	28
LN92-10855	37	38	26
LN93-5265	33	34	24
LN93-7027	30	33	24
LN93-13684	31	35	23
LN94-10470	37	39	27
U94-2306	32	33	22
U94-3412	28	33	26
U95-3135	30	31	25
U95-3213	30	33	25
U95-3231	31	33	28

UNIFORM TEST III, 1997

SEED QUALITY (score)

Strain	Mean 22 Tests	George- town DE	Fair field IA	Griswold IA	Stuart IA	Newton IL	Ridg- way IL
Charleston (dt1)	1.6	1.0	1.5	3.5	3.5	1.2	1.2
IA2022 (E)	2.0	1.0	2.5	4.0	4.0	1.3	1.5
IA3004 (BSR)	2.0	1.0	2.5	4.0	4.5	1.5	1.7
IA3005 (SCN)	2.4	1.0	2.5	4.5	4.0	1.8	1.7
Iroquois (III)	1.8	1.0	1.5	4.0	3.0	1.2	1.3
Macon (L)	1.8	1.0	2.0	4.0	4.0	1.3	1.3
A94-774021	1.9	1.0	1.5	4.5	4.5	1.3	1.6
A95-682026	2.0	1.0	1.5	3.5	4.0	1.4	1.7
HC92-984	1.8	1.0	2.0	4.0	4.0	1.4	1.3
HC92-1606	1.8	1.0	2.0	4.0	4.0	1.2	1.2
HF93-035	2.6	1.0	2.5	5.0	5.0	1.4	2.0
K1351	1.8	1.0	2.0	4.0	4.0	1.2	1.2
LN92-10855	2.2	1.0	2.5	3.5	3.5	1.5	1.7
LN93-5265	1.9	1.0	2.0	3.5	3.5	1.2	1.4
LN93-7027	1.7	1.0	1.5	4.0	4.0	1.2	1.2
LN93-13684	2.1	1.0	1.5	4.0	4.0	1.3	1.3
LN94-10470	1.9	1.0	2.0	4.0	4.0	1.2	1.3
U94-2306	1.8	1.0	2.0	4.0	4.0	1.2	1.2
U94-3412	1.7	1.0	1.5	4.0	4.5	1.3	1.2
U95-3135	2.1	1.0	3.0	3.5	4.0	1.3	1.6
U95-3213	2.0	1.0	2.5	4.0	4.5	1.2	1.5
U95-3231	1.9	1.0	2.0	4.0	4.5	1.3	1.4

UNIFORM TEST III, 1997

SEED QUALITY (score)

Strain	Urbana IL	Lafayette IN	Pinney Farm IN	Manhattan KS	Powhattan KS	Topeka KS	Lexington KY
Charleston (dt1)	1.5	1.0	1.0	2.0	2.0	2.0	1.0
IA2022 (E)	1.5	1.0	1.0	2.0	3.0	4.0	1.0
IA3004 (BSR)	1.6	1.0	1.0	3.0	4.0	4.0	1.0
IA3005 (SCN)	1.9	2.0	1.0	3.0	4.0	4.0	3.0
Iroquois (III)	1.3	1.0	1.0	3.0	2.0	3.0	2.0
Macon (L)	1.3	1.0	1.0	2.0	2.0	4.0	1.0
A94-774021	1.2	1.0	1.0	3.0	2.0	3.0	2.0
A95-682026	1.4	1.0	1.0	3.0	3.0	3.0	2.0
HC92-984	1.3	1.0	1.0	2.0	3.0	2.0	1.0
HC92-1606	1.3	1.0	1.0	2.0	3.0	3.0	1.0
HF93-035	1.9	2.0	1.0	3.0	5.0	5.0	2.0
K1351	1.3	1.0	1.0	2.0	2.0	3.0	1.0
LN92-10855	1.8	1.0	1.0	2.0	2.0	5.0	3.0
LN93-5265	1.3	1.0	1.0	2.0	2.0	4.0	3.0
LN93-7027	1.2	1.0	1.0	1.0	2.0	3.0	1.0
LN93-13684	1.5	1.0	1.0	3.0	3.0	5.0	1.0
LN94-10470	1.4	1.0	1.0	2.0	3.0	3.0	1.0
U94-2306	1.2	1.0	1.0	2.0	2.0	3.0	2.0
U94-3412	1.3	1.0	1.0	2.0	2.0	3.0	1.0
U95-3135	1.4	1.0	1.0	3.0	3.0	4.0	2.0
U95-3213	1.4	1.0	1.0	2.0	2.0	3.0	3.0
U95-3231	1.8	1.0	1.0	2.0	3.0	3.0	2.0

UNIFORM TEST III, 1997

SEED QUALITY (score)

Strain	Queens- town MD	Colum- bia MO	Hild- reth NE	McCool Jct. NE	Tekamah NE	Adel- phia NJ	Hoyt- ville OH
Charleston (dt1)	2.0	1.0	1.3	1.0	2.0		1.5
IA2022 (E)	1.2	1.0	2.0	2.0	1.7		2.0
IA3004 (BSR)	1.5	1.0	1.7	2.0	2.0		2.0
IA3005 (SCN)	3.0	1.0	2.3	2.7	2.0		3.5
Iroquois (III)	1.5	1.0	1.7	2.0	2.0		1.5
Macon (L)	1.8	1.0	1.7	2.0	1.7		2.0
A94-774021	1.3	1.0	1.7	2.0	2.0		2.0
A95-682026	2.7	2.0	2.0	2.0	2.0		2.0
HC92-984	1.7	1.0	1.7	1.7	2.0		1.5
HC92-1606	1.2	1.0	1.7	1.3	2.0		2.0
HF93-035	4.0	3.0	2.3	3.0	2.0		2.5
K1351	1.3	1.0	1.7	2.0	2.0		1.5
LN92-10855	3.3	3.0	2.0	2.0	2.0		1.5
LN93-5265	2.0	1.0	1.7	2.0	2.0		2.0
LN93-7027	1.8	1.0	1.3	1.7	2.0		1.5
LN93-13684	3.0	2.0	2.0	2.0	2.0		1.5
LN94-10470	1.7	1.0	1.3	2.0	2.0		2.0
U94-2306	1.0	1.0	2.0	2.0	2.0		1.5
U94-3412	1.0	1.0	1.7	2.0	1.7		2.0
U95-3135	2.0	1.0	2.0	2.0	2.0		2.0
U95-3213	1.2	1.0	2.3	2.3	2.0		2.0
U95-3231	1.0	1.0	1.7	2.0	2.0		2.0

UNIFORM TEST III, 1997

SEED QUALITY (score)

Strain	Plain City OH	So. Charl- eston OH	Wooster OH
Charleston (dt1)	1.0	1.8	1.0
IA2022 (E)	1.3	3.0	1.0
IA3004 (BSR)	1.2	1.5	1.0
IA3005 (SCN)	1.1	2.5	1.0
Iroquois (III)	1.0	2.0	1.0
Macon (L)	1.0	2.5	1.0
A94-774021	1.0	2.3	1.0
A95-682026	1.2	2.5	1.0
HC92-984	1.0	2.0	1.0
HC92-1606	1.0	2.0	1.0
HF93-035	1.0	2.5	1.0
K1351	1.0	1.5	2.0
LN92-10855	1.2	3.0	1.5
LN93-5265	1.0	2.0	1.0
LN93-7027	1.0	1.8	1.5
LN93-13684	1.0	2.0	1.5
LN94-10470	1.0	2.0	2.0
U94-2306	1.0	1.8	1.0
U94-3412	1.0	2.0	1.0
U95-3135	1.0	2.0	1.5
U95-3213	1.0	2.5	1.5
U95-3231	1.0	2.0	2.0

UNIFORM TEST III, 1997

SEED SIZE (g/100)

Strain	Mean 21 Tests	George- town DE	Fair field IA	Griswold IA	Stuart IA	Newton IL	Ridg- way IL
Charleston (dt1)	16.0		14.9	12.8	15.9	13.1	12.8
IA2022 (E)	15.6		14.3	13.8	16.2	12.5	12.1
IA3004 (BSR)	16.8		16.7	14.2	16.8	13.2	13.1
IA3005 (SCN)	17.7		19.5	14.3	16.4	16.2	14.8
Iroquois (III)	15.9		14.3	14.4	16.6	12.5	12.4
Macon (L)	17.3		17.5	15.7	17.1	14.9	14.7
A94-774021	16.1		15.7	14.4	16.2	13.4	11.9
A95-682026	16.2		16.0	13.9	15.1	13.3	13.8
HC92-984	16.1		15.6	13.2	15.3	12.3	13.1
HC92-1606	16.0		15.6	14.6	16.4	13.2	12.6
HF93-035	20.4		19.2	18.4	20.5	16.2	17.9
K1351	14.5		14.0	13.1	15.0	11.4	11.7
LN92-10855	15.0		13.9	12.9	15.4	12.7	12.1
LN93-5265	16.3		15.9	14.3	16.9	14.4	12.7
LN93-7027	15.7		16.2	14.3	15.7	12.6	13.6
LN93-13684	16.4		15.3	13.4	16.4	14.0	14.1
LN94-10470	13.3		12.3	11.8	12.9	10.1	10.4
U94-2306	15.7		15.0	13.3	15.4	12.0	13.0
U94-3412	15.3		14.6	14.0	16.8	13.2	11.7
U95-3135	15.9		15.6	13.6	14.8	13.2	12.9
U95-3213	17.7		16.0	15.3	18.7	13.6	14.0
U95-3231	17.4		17.1	15.6	17.6	15.3	12.7

UNIFORM TEST III, 1997

SEED SIZE (g/100)

Strain	Urbana IL	Lafayette IN	Pinney IN	Manhattan KS	Powhattan KS	Topeka KS	Lexington KY
Charleston (dt1)	17.3	14.6	15.5	16.9	13.8	17.6	16.7
IA2022 (E)	14.7	14.7	15.7	17.5	15.4	17.4	12.4
IA3004 (BSR)	16.5	15.7	16.5	19.7	15.0	19.1	14.8
IA3005 (SCN)	17.4	17.5	18.2	18.5	16.2	19.3	16.0
Iroquois (III)	15.7	14.2	16.4	16.8	14.6	16.4	15.0
Macon (L)	11.4	16.8	19.5	18.3	15.8	18.4	18.0
A94-774021	17.0	15.5	17.0	17.0	14.2	15.4	15.5
A95-682026	16.6	16.0	17.0	17.9	14.7	17.5	16.0
HC92-984	16.4	14.9	16.9	17.1	13.6	17.4	16.3
HC92-1606	15.9	15.1	16.3	18.1	15.2	16.2	15.3
HF93-035	21.0	20.5	19.8	15.2	19.3	24.7	20.5
K1351	14.7	13.0	14.6	16.1	13.2	15.4	13.4
LN92-10855	14.7	14.8	14.6	16.3	13.7	15.7	14.4
LN93-5265	16.0	15.0	16.7	18.3	14.7	15.6	15.7
LN93-7027	15.7	15.3	16.6	17.3	13.9	16.0	14.8
LN93-13684	17.5	15.7	16.0	17.9	14.9	17.8	15.3
LN94-10470	14.0	12.0	14.0	14.4	11.7	11.9	11.1
U94-2306	15.9	14.5	15.4	17.0	14.0	18.0	15.6
U94-3412	14.8	13.8	14.7	16.6	14.7	15.3	13.3
U95-3135	16.3	15.0	15.8	18.5	15.0	16.7	15.3
U95-3213	17.7	16.0	17.7	20.0	17.9	17.7	16.6
U95-3231	17.7	17.0	18.6	19.3	16.2	15.8	16.0

UNIFORM TEST III, 1997

SEED SIZE (g/100)

Strain	Queens- town MD	Colum- bia MO	Hild- reth NE	McCool Jct. NE	Tekamah NE	Adel- phia NJ	Hoyt- ville OH
Charleston (dt1)	17.8	16.1	18.8	16.7	17.9		16.5
IA2022 (E)	18.6	17.2	17.8	16.0	15.6		15.8
IA3004 (BSR)	20.1	17.2	18.8	17.2	18.2		16.8
IA3005 (SCN)	20.0	18.2	18.9	17.1	17.8		18.8
Iroquois (III)	19.2	18.5	17.4	16.5	16.5		17.8
Macon (L)	19.7	16.8	19.4	17.3	17.8		18.1
A94-774021	17.2	14.9	17.8	15.8	16.8		16.8
A95-682026	19.3	17.3	18.8	16.2	16.6		16.0
HC92-984	18.6	16.5	20.1	16.4	18.2		16.2
HC92-1606	18.3	15.5	17.0	16.5	18.8		16.3
HF93-035	24.1	21.5	21.9	21.8	21.5		20.5
K1351	17.7	15.8	15.3	14.1	15.7		15.3
LN92-10855	18.1	17.0	16.7	14.8	16.0		14.3
LN93-5265	19.3	16.4	19.1	15.4	18.2		16.2
LN93-7027	18.4	15.1	16.6	15.6	17.6		15.2
LN93-13684	18.9	18.3	18.1	15.3	17.3		16.8
LN94-10470	15.7	14.4	15.0	13.5	14.6		14.9
U94-2306	18.5	17.2	17.6	15.9	16.6		16.8
U94-3412	18.6	16.1	17.6	14.9	16.4		16.5
U95-3135	18.5	17.4	16.3	17.0	17.4		16.0
U95-3213	22.0	18.5	19.2	18.4	19.7		17.4
U95-3231	21.2	19.1	18.5	17.2	18.6		18.3

UNIFORM TEST III, 1997

SEED SIZE (g/100)

Strain	Plain City OH	So. Charl- eston OH	Wooster OH
Charleston (dt1)	16.9	16.1	16.7
IA2022 (E)	16.1	15.4	17.6
IA3004 (BSR)	17.4	16.7	18.9
IA3005 (SCN)	19.4	18.5	18.3
Iroquois (III)	17.0	16.0	16.6
Macon (L)	19.2	18.9	19.0
A94-774021	16.3	16.4	23.0
A95-682026	16.8	16.1	16.0
HC92-984	16.9	17.3	15.6
HC92-1606	17.1	16.1	16.5
HF93-035	21.8	20.4	21.1
K1351	15.0	14.4	14.9
LN92-10855	15.1	15.2	16.7
LN93-5265	17.1	16.9	17.2
LN93-7027	16.8	16.9	16.5
LN93-13684	17.1	16.5	18.1
LN94-10470	14.0	14.3	15.3
U94-2306	15.8	15.3	17.0
U94-3412	16.3	14.9	17.4
U95-3135	16.6	15.9	15.5
U95-3213	18.9	18.5	17.9
U95-3231	18.2	18.0	16.6

UNIFORM TEST III, 1997

PROTEIN (%)

Strain	Mean 5 Tests	Fairfield IA	Ridgway IL	Urbana IL	Lafayette IN	Lincoln NE
Charleston (dt1)	41.5	41.1	42.3	41.8	39.9	42.5
IA2022 (E)	40.7	41.2	41.8	39.4	40.0	41.3
IA3004 (BSR)	40.6	41.9	38.8	40.8	39.9	41.6
IA3005 (SCN)	40.1	40.5	39.3	39.2	40.0	41.6
Iroquois (III)	40.5	42.1	39.7	39.2	39.9	41.7
Macon (L)	40.1	41.4	39.0	39.2	40.2	40.9
A94-774021	39.5	40.5	38.3	38.7	38.7	41.2
A95-682026	38.5	39.9	38.3	38.4	37.4	38.3
HC92-984	41.3	41.8	41.1	41.2	42.2	40.1
HC92-1606	40.9	41.3	40.1	40.4	40.9	41.6
HF93-035	40.4	41.5	39.2	39.4	39.4	42.5
K1351	41.0	40.8	41.0	41.3	41.3	40.4
LN92-10855	39.8	38.9	39.1	40.0	38.8	42.0
LN93-5265	40.6	40.9	39.4	41.0	40.8	40.8
LN93-7027	41.4	41.5	40.3	41.7	41.6	41.8
LN93-13684	41.3	41.3	40.6	42.3	41.2	41.2
LN94-10470	40.5	39.9	39.9	40.4	40.1	42.0
U94-2306	41.0	41.0	41.6	41.5	40.3	40.5
U94-3412	40.0	42.4	37.5	39.3	39.6	41.3
U95-3135	38.9	38.0	39.7	38.0	37.4	41.5
U95-3213	39.2	39.9	39.2	39.6	38.2	39.2
U95-3231	40.9	43.2	40.4	41.2	40.9	39.0

UNIFORM TEST III, 1997

Strain	OIL (%)					
	Mean 5 Tests	Fairfield IA	Ridgway IL	Urbana IL	Lafayette IN	Lincoln NE
Charleston (dt1)	19.7	19.3	20.6	19.8	20.4	18.6
IA2022 (E)	19.9	19.3	20.7	20.4	20.0	19.2
IA3004 (BSR)	20.6	19.6	22.4	21.1	20.5	19.4
IA3005 (SCN)	20.4	19.8	22.1	21.0	20.1	18.8
Iroquois (III)	20.5	20.0	22.3	21.3	20.5	18.6
Macon (L)	20.7	20.2	22.5	20.9	20.2	19.6
A94-774021	20.8	20.4	22.5	20.9	20.5	19.5
A95-682026	21.4	20.5	23.2	21.8	21.6	20.0
HC92-984	19.9	19.3	20.4	20.3	19.4	20.0
HC92-1606	21.3	21.2	23.6	21.7	20.8	19.4
HF93-035	21.2	20.5	22.6	21.2	21.2	20.4
K1351	20.3	19.8	21.4	20.6	19.8	20.0
LN92-10855	20.7	20.9	22.4	20.6	20.9	18.9
LN93-5265	20.1	20.0	22.0	19.2	19.8	19.6
LN93-7027	20.5	20.3	21.8	19.9	20.2	20.1
LN93-13684	20.6	20.6	22.8	20.2	20.4	19.2
LN94-10470	19.8	19.6	21.0	19.3	19.4	19.7
U94-2306	20.6	20.5	21.9	21.2	20.5	18.9
U94-3412	20.7	19.2	23.5	20.7	20.1	20.2
U95-3135	21.1	21.0	22.1	21.7	21.3	19.3
U95-3213	21.0	20.3	22.3	21.2	20.9	20.2
U95-3231	20.8	19.9	22.1	21.1	20.9	20.2

Preliminary Test IIIA

	Strain	Parentage	Generation Composited	Unique Traits
1.	IA2022 (II)	Asgrow A3205 x Dairyland DSR 304	F5	
2.	Iroquois (III)	LN81-1029 x Asgrow A2943	F5	Rps?
3.	Macon (L)	Sherman x Resnik	F5	
4.	C1953	C1802 x HS88-4909	F5	
5.	C1960	HS88-4909 x HC85-2206	F5	
6.	C1961	HS88-4909 x HC85-2206	F5	
7.	C1962	HC86-4367 x HS88-4909	F5	
8.	C1964	HC86-4367 x HS88-4909	F5	
9.	HC93-2380	HC78-676BC x A86-303014	F5	
10.	HC93-2544	Charleston x Resnik	F5	
11.	HF95-078	Edison x OX 85274-8	F5	Rps1-k
12.	HF95-088	Edison x OX 8624-1	F5	Rps1-k
13.	K1375	Jack x Flyer	F5	
14.	K1376	Delsoy 4210 x Kenwoos	F5	
15.	LG93-7654	LG86-2734 x Asgrow A3205	F6	
16.	LG93-7780	LG86-6989 x Asgrow A3205	F6	
17.	LN93-736	Burlison x HC84-553-1	F5	
18.	LN93-9255	A86-202004 x Edison	F5	
19.	LN93-12227	Hamilton x Bell	F5	SCN
20.	LN94-2879	Pioneer P9341 x Resnik	F5	Rps1-k
21.	LN94-3096	Pioneer P9342 x Edison	F5	
22.	LN94-3104	Pioneer P9341 x Edison	F5	
23.	LN94-3107	Pioneer P9341 x Edison	F5	Rps1-k
24.	LN94-3122	Pioneer P9341 x Edison	F5	
25.	LN94-4373	Linford x A86-204022	F5	
26.	LN94-5232	Linford x K1148	F5	
27.	LN94-9087	L84-5932 x IA2007	F5	
28.	LN94-9985	LN84-7577 x Resnik	F5	
29.	U96-2326	Colfax x A91-701035	F4	
30.	U96-3103	MSBP2 (F1 SSD)	F7	
31.	U96-3106	MSBP2 (F1 bulk)	F7	
32.	U96-3118	MSBP2 (F1 bulk)	F7	
33.	U96-3302	MSBP2 (F1 bulk)	F7	
34.	U96-3306	Colfax x Iroquois	F4	
35.	U96-3413	Colfax x Asgrow A2242	F4	
36.	U96-3421	MSBP2 (F1 SSD)	F7	
37.	U96-3423	MSBP2 (F1 bulk)	F7	
38.	U96-3427	MSBP2 (F1 bulk)	F7	
39.	U96-3431	MSBP2 (F1 SSD) F6	F7	
40.	U96-3434	MSBP2 (F1 bulk)	F7	

PRELIMINARY TEST IIIA, 1997

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	<u>Chlorosis</u>	<u>Shattering</u>
		Score Ames	Score Manhattan
IA2022 (II)	PGBrSYBlEpI	3.6	2.0
Iroquois (III)	PGBrDYIbepI	3.3	2.0
Macon (L)	WTTnSYBlEpI	4.0	2.0
C1953	PGBrDYBfEpI	3.6	2.0
C1960	PGBrSYBfHI	3.3	2.0
C1961	PTBrSYBrepI	3.0	2.0
C1962	WGTnIYBfEpI	3.2	2.0
C1964	P+WTTnSYBrEpI	3.1	2.0
HC93-2380	PTBrDYHepI	3.5	2.0
HC93-2544	PTTnDYBlEpI	3.8	2.0
HF95-078	PTTnDYBlEpI	3.7	2.0
HF95-088	PTTnDYBlEpI	3.2	2.0
K1375	PGTnDYBfepI	3.7	2.0
K1376	PTTnDYLBlepI	4.1	2.0
LG93-7654	PTBrDYLBrepI	4.0	2.0
LG93-7780	PTBrIYHepI	3.8	2.0
LN93-736	WTTnIYBlepI	2.3	2.0
LN93-9255	PTTnDYBlEpI	2.8	2.0
LN93-12227	PTTnSYBrEpI	3.3	2.0
LN94-2879	PTTnDYBlEpI	3.2	2.0
LN94-3096	PTTnSYBlEpI	3.1	2.0
LN94-3104	WTTnSYBlEpI	3.6	2.0
LN94-3107	WTTnSYBlHI	3.7	2.0
LN94-3122	WTTnSYBrEpI	2.3	2.0
LN94-4373	WGBrSYBfHI	3.5	2.0
LN94-5232	WGTnSYBfEpI	4.0	2.0
LN94-9087	PTBrSYLBrEpI	3.0	2.0
LN94-9985	PGTnIYIbEpI	2.8	2.0
U96-2326	P+WGBrIYIbEpI	3.5	2.0
U96-3103	PGBrIYBrEpI	2.2	2.0
U96-3106	PTBrDYBrepI	3.2	2.0
U96-3118	WGTnDYBfepI	3.1	2.0
U96-3302	WTTnSYBrEpI	2.1	2.0
U96-3306	WGBrDYBfEpI	2.5	2.0
U96-3413	WTTnDYHEpI	3.3	2.0
U96-3421	PTBrDYBlEpI	3.2	--
U96-3423	P+WG+TBrIYBfepI	3.1	--
U96-3427	WGBrSYYepI	3.6	3.0
U96-3431	WGBrIYBfepI	3.5	2.0
U96-3434	P+WTTnDYBlepI	3.3	2.0

PRELIMINARY TEST IIIA, 1997

DISEASE DATA

Strain	<u>PR</u>		<u>Hard Seed</u>	<u>PS</u>	<u>P&SB</u>
	Ames	Lafayette	Lafayette	a	n
	Race	Race		%	%
	4	7			
IA2022 (II)		S	6	42	2
Iroquois (III)		S	0	10	0
Macon (L)		S	0	28	0
C1953	S	R	0	34	24
C1960	S	R	4	42	6
C1961	S	R	0	46	6
C1962	S	R	0	54	8
C1964	S	R	4	26	8
HC93-2380	S	R	0	38	2
HC93-2544	S	H	0	0	0
HF95-078	R	R	0	8	0
HF95-088	R	R	0	18	4
K1375	S	R	0	20	0
K1376	S	S	0	34	0
LG93-7654	S	S	0	2	0
LG93-7780	S	S	0	24	0
LN93-736	S	S	0	18	0
LN93-9255	S	S	0	4	0
LN93-12227	S	R	0	2	0
LN94-2879	R	S		20	4
LN94-3096	R	S	0	8	0
LN94-3104	S	S	0	8	0
LN94-3107	R	R	0	14	0
LN94-3122	S	S	0	4	0
LN94-4373	S	S	0	8	2
LN94-5232	S	S	0	20	8
LN94-9087	S	S	0	16	2
LN94-9985	S	S	0	22	2
U96-2326	S	H	0	16	0
U96-3103	S	R	0	14	0
U96-3106	S	R	0	20	2
U96-3118	S	S	0	4	0
U96-3302	S	R	0	8	0
U96-3306	S	S	0	8	0
U96-3413	S	R	0	4	2
U96-3421	S	S	0	4	0
U96-3423	S	S	0	8	2
U96-3427	S	S	0	42	0
U96-3431	S	S	0	10	0
U96-3434	S	S	0	10	0

PRELIMINARY TEST IIIA, 1997

REGIONAL SUMMARY

No. of Tests Strain	Yield	Rank	Maturity	Lodging	Plant	Seed	Seed	Composition	
	10 bu/a	10 No.	10 Date	10 Score	10 In.	10 Score	10 g/100	Protein 5 %	Oil 5 %
IA2022 (II)	58.9	14	-3.0	1.4	34	2.2	15.7	40.6	20.1
Iroquois (III)	58.4	19	9/22	1.4	34	2.0	16.0	41.0	20.4
Macon (L)	60.5	4	5.5	1.5	33	2.1	18.0	40.7	19.8
C1953	57.2	28	1.7	1.4	34	2.6	18.4	40.3	20.7
C1960	59.1	10	-0.5	1.2	34	2.4	18.1	39.7	21.1
C1961	57.4	26	-0.6	1.3	33	2.2	18.9	42.2	20.0
C1962	58.3	21	-1.1	1.2	31	1.8	17.7	39.4	21.2
C1964	59.4	8	-1.6	1.5	30	1.9	17.0	39.2	20.9
HC93-2380	55.8	33	6.9	1.7	36	2.3	16.0	40.3	20.1
HC93-2544	57.4	26	6.3	1.8	39	1.8	15.6	42.4	19.2
HF95-078	58.5	17	4.4	1.2	32	1.8	14.8	40.9	19.9
HF95-088	58.4	19	3.3	1.2	31	1.8	15.0	40.9	19.9
K1375	55.7	34	9.9	1.8	37	2.2	16.1	41.5	20.0
K1376	59.3	9	8.3	2.0	38	2.1	16.0	40.9	20.0
LG93-7654	57.6	24	3.6	1.4	33	2.2	15.4	42.1	19.3
LG93-7780	53.5	39	4.6	1.5	34	2.4	18.1	42.4	19.4
LN93-736	59.1	10	5.6	1.6	35	2.3	18.3	41.9	18.5
LN93-9255	59.1	10	3.7	1.4	36	2.1	16.9	40.0	20.7
LN93-12227	55.4	35	4.3	1.9	33	2.2	16.4	40.6	20.6
LN94-2879	58.5	17	2.4	1.2	32	2.0	15.5	41.5	20.5
LN94-3096	58.8	15	4.5	1.3	36	2.0	15.0	41.0	19.9
LN94-3104	58.7	16	5.3	1.4	36	1.9	15.6	41.4	19.7
LN94-3107	58.0	23	7.6	1.6	36	2.1	15.8	41.1	19.5
LN94-3122	61.2	2	7.0	1.3	33	2.2	14.8	40.5	20.0
LN94-4373	56.9	29	4.9	1.5	34	1.9	15.8	40.1	20.6
LN94-5232	57.6	24	5.4	1.9	35	2.3	14.5	41.4	20.2
LN94-9087	54.5	37	3.8	1.8	37	2.2	17.6	41.8	19.5
LN94-9985	58.1	22	2.6	1.4	34	2.1	15.7	41.9	20.3
U96-2326	59.1	10	2.6	1.2	31	1.9	19.4	40.0	20.6
U96-3103	60.8	3	1.1	1.4	32	2.2	15.0	40.7	19.6
U96-3106	61.7	1	6.3	1.6	36	2.0	17.7	40.8	20.3
U96-3118	53.3	40	2.0	1.1	31	2.7	17.1	41.2	19.6
U96-3302	55.4	35	4.0	1.7	35	2.2	16.6	42.2	19.3
U96-3306	59.5	7	0.3	1.5	33	2.2	16.6	40.7	20.3
U96-3413	60.1	5	4.6	1.8	35	2.1	15.1	41.1	19.5
U96-3421	56.3	32	-0.6	1.7	33	1.8	15.1	40.6	20.7
U96-3423	56.7	31	3.7	1.3	33	2.0	16.7	40.8	20.4
U96-3427	54.1	38	-2.0	1.4	33	3.0	18.2	40.7	19.8
U96-3431	56.9	29	1.8	1.3	32	1.9	15.1	39.9	21.0
U96-3434	60.1	5	4.2	1.5	37	2.4	17.1	39.8	19.9

PRELIMINARY TEST IIIA, 1997

Strain	YIELD (bu/a)					
	Mean 10 Tests	Fair- field IA	Stuart IA	Urbana IL	Lafay- ette IN	Man- hattan KS
IA2022 (II)	58.9	73.7	46.9	57.1	50.0	54.4
Iroquois (III)	58.4	72.9	54.2	56.8	43.5	60.7
Macon (L)	60.5	74.7	47.8	65.2	49.5	65.4
C1953	57.2	72.2	47.8	62.8	47.7	59.3
C1960	59.1	75.0	48.2	59.1	53.2	49.0
C1961	57.4	74.5	44.5	62.5	47.3	57.9
C1962	58.3	73.3	49.2	62.4	49.9	59.5
C1964	59.4	71.4	48.8	63.1	45.8	55.9
HC93-2380	55.8	71.2	48.2	60.6	47.2	57.8
HC93-2544	57.4	68.7	52.6	58.0	46.4	58.7
HF95-078	58.5	68.0	47.6	62.6	48.2	65.3
HF95-088	58.4	69.9	46.0	62.6	46.4	54.2
K1375	55.7	67.7	44.7	64.2	43.8	54.9
K1376	59.3	69.7	54.6	60.0	50.0	64.3
LG93-7654	57.6	67.6	49.5	60.9	53.3	55.0
LG93-7780	53.5	68.2	42.9	56.4	51.9	44.1
LN93-736	59.1	71.2	51.1	62.5	53.3	61.2
LN93-9255	59.1	67.2	47.4	61.7	54.0	63.1
LN93-12227	55.4	66.0	44.4	58.4	49.3	57.9
LN94-2879	58.5	72.0	47.2	58.9	49.3	65.5
LN94-3096	58.8	68.3	50.0	58.9	56.8	57.3
LN94-3104	58.7	70.2	50.7	57.9	48.7	63.9
LN94-3107	58.0	70.7	46.2	58.4	51.3	63.1
LN94-3122	61.2	69.2	52.3	60.6	53.0	70.1
LN94-4373	56.9	69.4	48.5	61.3	49.0	63.1
LN94-5232	57.6	70.7	54.8	57.0	50.9	59.2
LN94-9087	54.5	66.8	47.1	60.2	45.1	54.0
LN94-9985	58.1	75.9	50.4	60.4	47.2	58.1
U96-2326	59.1	77.9	43.6	67.3	47.7	55.9
U96-3103	60.8	72.0	49.1	63.8	51.5	67.6
U96-3106	61.7	73.0	51.9	61.1	53.8	67.8
U96-3118	53.3	64.3	46.1	56.1	42.5	50.2
U96-3302	55.4	67.0	47.4	54.8	48.7	59.6
U96-3306	59.5	73.3	52.4	60.8	47.4	58.7
U96-3413	60.1	75.7	48.1	66.1	44.5	68.9
U96-3421	56.3	64.0	53.6	52.7	49.7	56.8
U96-3423	56.7	70.3	50.4	57.0	45.8	58.1
U96-3427	54.1	70.1	47.2	56.6	44.7	48.6
U96-3431	56.9	62.3	50.5	60.1	45.8	64.2
U96-3434	60.1	77.3	48.8	65.9	45.0	67.8
C.V. (%)		5.1	6.2	4.8	7.6	5.0
L.S.D. (5%)		7.3	6.1	5.9	7.5	6.1
Row Sp. (In.)		27	27	30	24	30
Rows/Plot		4	4	4	4	4
Reps		2	2	2	2	2

PRELIMINARY TEST IIIA, 1997

Strain	YIELD (bu/a)				
	Columbia MO	McCool Jct. NE	Tekamah NE	Hoyt- ville OH	So. Charles- ton OH
IA2022 (II)	47.8	69.2	73.5	42.2	74.0
Iroquois (III)	41.9	65.6	69.0	47.2	71.8
Macon (L)	40.2	72.3	67.4	47.3	75.3
C1953	33.5	69.3	64.1	43.6	72.0
C1960	37.1	73.8	72.1	50.1	73.8
C1961	27.4	66.5	70.6	48.7	74.2
C1962	25.2	68.3	72.6	48.9	74.0
C1964	26.9	78.6	74.1	54.1	75.3
HC93-2380	39.6	65.6	56.0	43.2	68.4
HC93-2544	43.0	66.4	63.2	47.1	69.9
HF95-078	36.6	65.3	70.3	50.5	70.1
HF95-088	39.3	65.8	76.0	49.3	74.8
K1375	41.2	64.2	56.9	47.0	71.9
K1376	43.9	65.4	63.5	51.3	70.0
LG93-7654	42.2	66.2	67.0	43.5	70.8
LG93-7780	38.0	66.6	63.8	36.6	66.2
LN93-736	41.6	67.9	63.5	44.4	74.3
LN93-9255	41.0	66.6	70.0	46.5	73.9
LN93-12227	39.8	65.7	63.2	43.1	66.3
LN94-2879	38.5	63.6	71.6	49.4	68.8
LN94-3096	40.7	68.7	63.9	50.3	72.7
LN94-3104	41.9	66.4	64.2	47.9	75.1
LN94-3107	43.4	62.4	66.9	49.9	67.4
LN94-3122	38.7	70.7	73.8	49.3	74.3
LN94-4373	35.5	62.3	63.4	45.7	70.8
LN94-5232	37.4	70.2	63.8	42.9	69.0
LN94-9087	39.2	60.8	63.6	42.3	65.8
LN94-9985	42.6	67.9	64.7	47.7	65.6
U96-2326	33.7	68.0	76.0	48.3	72.1
U96-3103	39.5	68.4	73.7	48.8	74.0
U96-3106	34.6	71.8	78.0	50.5	74.7
U96-3118	37.4	62.6	68.0	33.2	73.0
U96-3302	35.2	63.6	59.2	47.9	70.2
U96-3306	34.9	72.5	73.3	50.7	71.3
U96-3413	33.5	69.9	68.4	49.3	76.1
U96-3421	36.0	70.6	71.3	41.8	66.9
U96-3423	40.1	64.8	69.0	44.2	67.0
U96-3427	33.3	67.5	68.9	34.0	70.0
U96-3431	32.0	67.8	65.4	46.2	74.9
U96-3434	38.7	72.9	67.9	44.3	72.7
C.V. (%)	10.7	7.0	4.9	5.5	4.1
L.S.D. (5%)	8.2	9.5	6.7	3.6	5.9
Row Sp. (In.)	30	30	30	30	7.5
Rows/Plot	4	4	4	4	8
Reps	2	2	2	2	2

PRELIMINARY TEST IIIA, 1997

YIELD RANK

Strain	Yield Rank	Fair- field IA	Stuart IA	Urbana IL	Lafay- ette IN	Man- hattan KS
IA2022 (II)	14	8	32	32	12	34
Iroquois (III)	19	12	3	35	39	16
Macon (L)	4	6	24	4	16	7
C1953	28	13	24	8	23	19
C1960	10	5	21	25	6	38
C1961	26	7	37	11	26	25
C1962	21	9	16	13	14	18
C1964	8	16	18	7	31	30
HC93-2380	33	17	21	19	27	27
HC93-2544	26	28	5	30	29	21
HF95-078	17	31	26	9	22	8
HF95-088	19	24	35	9	29	35
K1375	34	32	36	5	38	33
K1376	9	25	2	24	12	9
LG93-7654	24	33	15	17	4	32
LG93-7780	39	30	40	37	8	40
LN93-736	10	17	9	11	4	15
LN93-9255	10	34	27	14	2	12
LN93-12227	35	37	38	28	17	25
LN94-2879	17	14	29	26	17	6
LN94-3096	15	29	14	26	1	28
LN94-3104	16	22	10	31	20	11
LN94-3107	23	19	33	29	10	12
LN94-3122	2	27	7	19	7	1
LN94-4373	29	26	20	15	19	12
LN94-5232	24	19	1	33	11	20
LN94-9087	37	36	31	22	34	36
LN94-9985	22	3	12	21	27	23
U96-2326	10	1	39	1	23	30
U96-3103	3	14	17	6	9	5
U96-3106	1	11	8	16	3	3
U96-3118	40	38	34	38	40	37
U96-3302	35	35	27	39	20	17
U96-3306	7	9	6	18	25	21
U96-3413	5	4	23	2	37	2
U96-3421	32	39	4	40	15	29
U96-3423	31	21	12	33	31	23
U96-3427	38	23	29	36	36	39
U96-3431	29	40	11	23	31	10
U96-3434	5	2	18	3	35	3

PRELIMINARY TEST IIIA, 1997

Strain	YIELD RANK				
	Columbia MO	McCool Jct. NE	Tekamah NE	Hoyt- ville OH	So. Charles- ton OH
IA2022 (II)	1	12	7	36	11
Iroquois (III)	7	29	16	21	22
Macon (L)	13	5	22	20	2
C1953	34	11	28	30	20
C1960	26	2	10	7	15
C1961	38	23	13	15	10
C1962	40	15	9	13	11
C1964	39	1	4	1	2
HC93-2380	16	30	40	32	33
HC93-2544	4	24	36	22	30
HF95-078	27	32	14	4	27
HF95-088	18	27	3	10	6
K1375	10	34	39	23	21
K1376	2	31	34	2	28
LG93-7654	6	26	23	31	24
LG93-7780	23	22	31	38	38
LN93-736	9	17	33	27	8
LN93-9255	11	21	15	24	14
LN93-12227	15	28	37	33	37
LN94-2879	22	36	11	9	32
LN94-3096	12	13	29	6	17
LN94-3104	7	25	27	17	4
LN94-3107	3	38	24	8	34
LN94-3122	20	7	5	10	8
LN94-4373	29	39	35	26	24
LN94-5232	24	9	30	34	31
LN94-9087	19	40	32	35	39
LN94-9985	5	18	26	19	40
U96-2326	33	16	2	16	19
U96-3103	17	14	6	14	11
U96-3106	32	6	1	4	7
U96-3118	24	37	20	40	16
U96-3302	30	35	38	17	26
U96-3306	31	4	8	3	23
U96-3413	34	10	19	10	1
U96-3421	28	8	12	37	36
U96-3423	14	33	17	29	35
U96-3427	36	20	18	39	28
U96-3431	37	19	25	25	5
U96-3434	20	3	21	28	17

PRELIMINARY TEST IIIA, 1997

MATURITY (date)

Strain	Mean 10 Tests	Fair- field IA	Stuart IA	Urbana IL	Lafay- ette IN	Man- hattan KS
IA2022 (II)	-3.0	-2	-2	-5	-3	-7
Iroquois (III)	9/22	09/20	09/20	09/19	09/22	09/26
Macon (L)	5.5	6	6	7	6	4
C1953	1.7	3	3	1	-1	1
C1960	-0.5	-1	-1	-1	0	-6
C1961	-0.6	-1	-1	-1	-2	-6
C1962	-1.1	-2	-2	0	1	-6
C1964	-1.6	-1	-1	-1	-2	-7
HC93-2380	6.9	8	8	9	6	5
HC93-2544	6.3	7	7	8	5	4
HF95-078	4.4	7	7	5	5	3
HF95-088	3.3	6	6	3	3	4
K1375	9.9	10	10	13	10	7
K1376	8.3	9	9	11	6	5
LG93-7654	3.6	4	4	2	5	1
LG93-7780	4.6	5	5	7	6	3
LN93-736	5.6	7	7	5	5	4
LN93-9255	3.7	5	5	4	3	3
LN93-12227	4.3	7	7	4	4	5
LN94-2879	2.4	5	5	-1	4	1
LN94-3096	4.5	7	7	5	5	0
LN94-3104	5.3	7	7	8	6	2
LN94-3107	7.6	9	9	10	6	4
LN94-3122	7.0	9	9	7	9	5
LN94-4373	4.9	5	5	7	4	5
LN94-5232	5.4	6	6	8	5	3
LN94-9087	3.8	2	2	8	4	-1
LN94-9985	2.6	6	6	1	4	0
U96-2326	2.6	2	2	5	2	0
U96-3103	1.1	2	2	-1	0	3
U96-3106	6.3	9	9	9	7	5
U96-3118	2.0	4	4	0	0	3
U96-3302	4.0	5	5	5	5	3
U96-3306	0.3	0	0	0	-1	4
U96-3413	4.6	3	3	9	4	5
U96-3421	-0.6	0	0	-3	-2	-3
U96-3423	3.7	5	5	4	3	4
U96-3427	-2.0	-2	-2	-4	-2	-6
U96-3431	1.8	4	4	1	1	-3
U96-3434	4.2	4	4	4	2	5
Date Planted	05/14	05/05	05/16	04/29	05/15	05/20
Days to Mature	131.2	138	127	143	130	129

PRELIMINARY TEST IIIA, 1997

Strain	MATURITY (date)				
	Columbia MO	McCool Jct. NE	Tekamah NE	Hoyt- ville OH	So. Charles- ton OH
IA2022 (II)	-4	1	1	-4	-5
Iroquois (III)	09/17	09/19	09/26	10/03	09/23
Macon (L)	4	6	6	3	7
C1953	-4	2	5	5	2
C1960	-2	1	2	1	2
C1961	-4	3	5	1	0
C1962	-5	1	2	2	-2
C1964	-6	0	2	2	-2
HC93-2380	3	8	7	6	9
HC93-2544	4	5	7	9	7
HF95-078	2	2	5	4	4
HF95-088	1	1	4	3	2
K1375	9	9	9	11	11
K1376	6	8	10	9	10
LG93-7654	4	5	4	3	4
LG93-7780	3	6	4	1	6
LN93-736	6	5	6	6	5
LN93-9255	5	2	5	2	3
LN93-12227	3	4	5	3	1
LN94-2879	1	1	5	2	1
LN94-3096	2	4	5	5	5
LN94-3104	3	3	5	5	7
LN94-3107	6	8	7	6	11
LN94-3122	4	8	6	6	7
LN94-4373	1	7	5	4	6
LN94-5232	2	5	7	6	6
LN94-9087	1	8	6	2	6
LN94-9985	1	1	4	1	2
U96-2326	2	1	4	3	5
U96-3103	1	2	3	-2	1
U96-3106	-3	5	8	6	8
U96-3118	3	1	5	-2	2
U96-3302	-2	5	6	4	4
U96-3306	-3	1	2	1	-1
U96-3413	1	4	6	5	6
U96-3421	2	0	1	0	-1
U96-3423	0	3	6	3	4
U96-3427	-5	1	2	1	-3
U96-3431	-3	6	4	3	1
U96-3434	3	5	5	4	6
Date Planted	05/06	05/15	05/19	06/11	05/06
Days to Mature	134	127	130	114	140

PRELIMINARY TEST IIIA, 1997

LODGING (score)

Strain	Mean 10 Tests	Fair- field IA	Stuart IA	Urbana IL	Lafay- ette IN	Man- hattan KS
IA2022 (II)	1.4	2.1	1.3	1.3	1.0	1.5
Iroquois (III)	1.4	2.0	1.4	1.0	1.0	1.0
Macon (L)	1.5	2.1	1.3	1.3	1.0	1.0
C1953	1.4	2.4	1.3	1.5	1.0	1.5
C1960	1.2	2.1	1.1	1.0	1.0	1.0
C1961	1.3	2.4	1.1	1.3	1.0	1.0
C1962	1.2	2.1	1.1	1.0	1.0	1.0
C1964	1.5	2.3	1.2	2.0	1.0	1.0
HC93-2380	1.7	2.5	1.3	2.0	1.0	2.0
HC93-2544	1.8	2.7	1.4	1.8	1.0	1.5
HF95-078	1.2	1.5	1.3	1.5	1.0	1.0
HF95-088	1.2	1.6	1.3	1.3	1.0	1.0
K1375	1.8	2.4	1.4	2.3	1.0	2.0
K1376	2.0	2.5	1.4	2.3	1.8	1.5
LG93-7654	1.4	1.8	1.3	1.3	1.0	1.0
LG93-7780	1.5	2.1	1.3	1.8	1.0	2.0
LN93-736	1.6	2.5	1.3	1.5	1.0	1.0
LN93-9255	1.4	2.2	1.3	1.5	1.0	1.0
LN93-12227	1.9	3.2	1.2	2.3	1.3	2.5
LN94-2879	1.2	1.9	1.1	1.0	1.0	1.0
LN94-3096	1.3	1.6	1.3	1.5	1.0	1.0
LN94-3104	1.4	2.1	1.3	1.8	1.0	1.0
LN94-3107	1.6	1.9	1.2	1.8	1.0	1.0
LN94-3122	1.3	1.8	1.2	1.5	1.0	1.0
LN94-4373	1.5	2.3	1.4	2.0	1.0	1.0
LN94-5232	1.9	2.7	1.8	2.3	1.0	1.5
LN94-9087	1.8	2.6	1.3	2.3	1.0	2.0
LN94-9985	1.4	2.4	1.3	1.3	1.0	1.0
U96-2326	1.2	2.4	1.1	1.3	1.0	1.0
U96-3103	1.4	2.4	1.3	1.5	1.0	1.0
U96-3106	1.6	2.0	1.6	1.8	1.0	1.5
U96-3118	1.1	1.8	1.1	1.0	1.0	1.0
U96-3302	1.7	2.5	1.3	2.0	1.0	1.5
U96-3306	1.5	2.7	1.3	1.8	1.0	1.0
U96-3413	1.8	3.2	1.3	1.8	1.0	2.0
U96-3421	1.7	3.0	1.4	1.5	1.0	1.5
U96-3423	1.3	2.2	1.3	1.3	1.0	1.0
U96-3427	1.4	2.6	1.3	1.3	1.0	1.0
U96-3431	1.3	2.2	1.3	1.0	1.0	1.0
U96-3434	1.5	2.5	1.2	2.0	1.0	1.0

PRELIMINARY TEST IIIA, 1997

Strain	LODGING (score)				
	Columbia MO	McCool Jct. NE	Tekamah NE	Hoyt- ville OH	So. Charles- ton OH
IA2022 (II)	1.0	1.0	2.0	1.3	1.0
Iroquois (III)	1.0	1.5	2.5	1.2	1.5
Macon (L)	1.0	2.0	2.5	1.5	1.0
C1953	1.0	1.0	1.5	1.5	1.0
C1960	1.0	1.0	1.5	1.3	1.0
C1961	1.0	1.5	1.5	1.5	1.0
C1962	1.0	1.0	1.5	1.3	1.0
C1964	1.0	1.5	2.5	1.5	1.0
HC93-2380	1.0	2.0	2.5	1.4	1.5
HC93-2544	1.0	2.0	3.0	1.7	1.8
HF95-078	1.0	1.0	1.0	1.4	1.0
HF95-088	1.0	1.0	1.0	1.4	1.0
K1375	1.0	2.0	2.5	1.6	1.5
K1376	1.0	2.0	3.0	1.6	2.5
LG93-7654	1.0	2.0	2.0	1.4	1.0
LG93-7780	1.0	1.5	2.0	1.4	1.3
LN93-736	1.0	2.0	2.5	1.7	1.3
LN93-9255	1.0	1.5	2.0	1.4	1.3
LN93-12227	1.0	2.0	3.0	1.4	1.3
LN94-2879	1.0	1.0	2.0	1.4	1.0
LN94-3096	1.0	1.0	2.0	1.6	1.0
LN94-3104	1.0	1.0	2.5	1.5	1.0
LN94-3107	1.0	2.0	3.0	1.4	1.3
LN94-3122	1.0	1.5	2.0	1.3	1.0
LN94-4373	1.0	2.0	1.5	1.7	1.3
LN94-5232	1.0	2.0	3.0	1.6	2.0
LN94-9087	1.0	2.0	2.5	1.4	2.0
LN94-9985	1.0	1.0	2.5	1.4	1.0
U96-2326	1.0	1.0	1.0	1.3	1.0
U96-3103	1.0	1.5	1.5	1.4	1.3
U96-3106	1.0	1.5	2.0	1.5	1.8
U96-3118	1.0	1.0	1.0	1.3	1.0
U96-3302	1.0	1.5	3.0	1.4	1.3
U96-3306	1.0	2.0	2.0	1.4	1.0
U96-3413	1.0	1.5	3.0	1.6	1.8
U96-3421	1.0	1.5	3.0	1.4	1.3
U96-3423	1.0	1.0	1.5	1.5	1.0
U96-3427	1.0	1.5	2.0	1.4	1.0
U96-3431	1.0	1.0	2.5	1.2	1.0
U96-3434	1.0	1.0	2.5	1.4	1.5

PRELIMINARY TEST IIIA, 1997

PLANT HEIGHT (inches)

Strain	Mean 10 Tests	Fair- field IA	Stuart IA	Urbana IL	Lafay- ette IN	Man- hattan KS
IA2022 (II)	34	40	30	38	32	38
Iroquois (III)	34	42	29	36	30	37
Macon (L)	33	43	27	35	29	39
C1953	34	41	30	36	33	38
C1960	34	40	29	33	31	37
C1961	33	42	28	34	31	35
C1962	31	40	26	33	30	34
C1964	30	36	27	35	28	31
HC93-2380	36	44	31	41	34	40
HC93-2544	39	45	33	40	38	42
HF95-078	32	37	25	36	30	34
HF95-088	31	38	26	34	29	30
K1375	37	44	29	38	33	42
K1376	38	46	32	40	36	39
LG93-7654	33	40	29	33	29	36
LG93-7780	34	38	29	36	32	38
LN93-736	35	43	27	36	34	38
LN93-9255	36	42	29	38	34	38
LN93-12227	33	38	28	34	31	37
LN94-2879	32	39	28	35	31	35
LN94-3096	36	40	30	39	35	36
LN94-3104	36	43	30	40	30	41
LN94-3107	36	43	29	39	35	38
LN94-3122	33	39	27	37	32	35
LN94-4373	34	40	30	37	29	38
LN94-5232	35	40	29	35	33	40
LN94-9087	37	45	29	41	34	38
LN94-9985	34	42	29	38	33	38
U96-2326	31	38	24	36	28	36
U96-3103	32	40	28	35	29	34
U96-3106	36	43	30	44	34	38
U96-3118	31	36	26	34	28	33
U96-3302	35	43	30	41	33	39
U96-3306	33	39	28	35	30	35
U96-3413	35	42	28	38	29	39
U96-3421	33	41	27	32	32	38
U96-3423	33	38	29	36	28	39
U96-3427	33	40	29	33	33	36
U96-3431	32	38	26	34	29	36
U96-3434	37	46	28	42	36	39

PRELIMINARY TEST IIIA, 1997

PLANT HEIGHT (inches)

Strain	Columbia MO	McCool Jct. NE	Tekamah NE	Hoyt- ville OH	So. Charles- ton OH
IA2022 (II)	25	37	41	30	32
Iroquois (III)	24	38	42	31	33
Macon (L)	24	38	39	27	29
C1953	26	36	40	29	31
C1960	26	38	41	36	31
C1961	23	35	40	28	32
C1962	22	29	37	27	29
C1964	22	30	34	28	28
HC93-2380	27	38	41	30	33
HC93-2544	29	43	45	34	39
HF95-078	25	35	34	32	31
HF95-088	24	33	36	29	30
K1375	26	40	46	34	35
K1376	28	43	47	35	38
LG93-7654	24	36	38	31	31
LG93-7780	24	36	40	30	32
LN93-736	26	40	41	28	32
LN93-9255	25	40	43	33	34
LN93-12227	26	35	41	27	30
LN94-2879	25	31	41	27	31
LN94-3096	27	38	42	32	36
LN94-3104	26	37	43	34	35
LN94-3107	27	39	44	34	36
LN94-3122	24	35	38	29	32
LN94-4373	24	37	42	29	33
LN94-5232	27	37	41	33	34
LN94-9087	28	42	44	33	36
LN94-9985	25	37	39	30	33
U96-2326	21	32	38	28	29
U96-3103	23	31	37	28	31
U96-3106	22	39	41	33	35
U96-3118	28	31	37	25	29
U96-3302	23	37	44	31	32
U96-3306	25	37	41	30	29
U96-3413	26	39	40	35	33
U96-3421	25	39	40	28	31
U96-3423	24	38	40	31	30
U96-3427	26	36	38	27	32
U96-3431	23	33	40	30	30
U96-3434	24	39	46	32	34

PRELIMINARY TEST IIIA, 1997

SEED QUALITY (score)

Strain	Mean 10 Tests	Fair- field IA	Stuart IA	Urbana IL	Lafay- ette IN	Man- hattan KS
IA2022 (II)	2.2	2.5	4.0	1.2	1.0	3.0
Iroquois (III)	2.0	1.0	3.5	1.8	1.0	3.0
Macon (L)	2.1	1.5	4.0	1.2	1.0	3.0
C1953	2.6	2.0	5.0	1.7	1.0	5.0
C1960	2.4	2.0	4.0	1.2	1.0	4.0
C1961	2.2	2.5	4.5	1.2	1.0	3.0
C1962	1.8	1.5	3.5	1.2	1.0	3.0
C1964	1.9	1.0	4.0	1.2	1.0	3.0
HC93-2380	2.3	2.0	4.5	1.4	1.0	4.0
HC93-2544	1.8	1.0	4.5	1.5	1.0	2.0
HF95-078	1.8	1.0	4.5	1.2	1.0	2.0
HF95-088	1.8	1.5	4.0	1.4	1.0	2.0
K1375	2.2	2.0	4.5	2.3	2.0	2.0
K1376	2.1	2.5	3.5	1.6	1.0	3.0
LG93-7654	2.2	2.5	4.0	1.2	1.0	3.0
LG93-7780	2.4	2.5	4.5	2.0	1.0	3.0
LN93-736	2.3	2.5	4.5	1.2	1.0	4.0
LN93-9255	2.1	1.5	4.0	1.2	1.0	3.0
LN93-12227	2.2	2.0	4.5	1.4	1.0	3.0
LN94-2879	2.0	1.5	4.0	1.2	1.0	3.0
LN94-3096	2.0	2.0	4.5	1.2	1.0	2.0
LN94-3104	1.9	2.0	4.5	1.9	1.0	2.0
LN94-3107	2.1	2.0	4.0	1.2	1.0	3.0
LN94-3122	2.2	2.0	4.5	1.5	1.0	3.0
LN94-4373	1.9	1.0	3.5	1.4	1.0	3.0
LN94-5232	2.3	1.5	4.5	1.5	1.0	4.0
LN94-9087	2.2	1.0	4.0	1.2	1.0	4.0
LN94-9985	2.1	1.0	3.0	1.5	1.0	4.0
U96-2326	1.9	1.0	4.0	1.2	1.0	3.0
U96-3103	2.2	1.5	4.0	1.2	1.0	4.0
U96-3106	2.0	1.5	4.5	1.2	1.0	3.0
U96-3118	2.7	2.5	4.5	1.6	1.0	5.0
U96-3302	2.2	1.5	4.5	1.5	1.0	4.0
U96-3306	2.2	2.0	4.0	1.4	1.0	3.0
U96-3413	2.1	1.5	4.5	1.4	1.0	3.0
U96-3421	1.8	2.0	4.5	1.2	1.0	2.0
U96-3423	2.0	1.0	4.0	1.4	1.0	3.0
U96-3427	3.0	3.0	4.5	2.5	1.0	5.0
U96-3431	1.9	1.5	3.0	1.4	1.0	3.0
U96-3434	2.4	2.0	5.0	1.2	2.0	4.0

PRELIMINARY TEST IIIA, 1997

Strain	SEED QUALITY (score)				
	Columbia MO	McCool Jct. NE	Tekamah NE	Hoyt- ville OH	So. Charles- ton OH
IA2022 (II)	1.0	2.0	2.0	2.5	2.8
Iroquois (III)	1.0	2.0	2.0	2.5	2.0
Macon (L)	1.0	2.0	2.0	2.5	2.5
C1953	2.0	2.0	2.0	2.5	3.0
C1960	3.0	1.5	2.0	2.5	2.5
C1961	2.0	1.0	2.0	2.5	2.3
C1962	1.0	1.0	2.0	1.5	2.5
C1964	1.0	1.5	2.0	2.5	2.0
HC93-2380	2.0	1.5	2.0	2.5	2.3
HC93-2544	1.0	1.5	2.0	1.5	1.8
HF95-078	1.0	2.0	2.0	1.5	1.8
HF95-088	1.0	1.0	2.0	2.5	1.5
K1375	2.0	1.5	2.0	1.5	2.3
K1376	2.0	1.5	2.0	1.5	2.5
LG93-7654	2.0	1.5	2.0	2.5	2.0
LG93-7780	2.0	2.0	2.0	2.5	2.5
LN93-736	1.0	2.0	1.5	2.5	2.3
LN93-9255	1.0	2.0	2.0	2.5	2.5
LN93-12227	3.0	2.0	2.0	1.5	1.8
LN94-2879	1.0	2.0	2.0	2.5	2.0
LN94-3096	1.0	2.0	2.0	2.5	2.0
LN94-3104	1.0	1.0	1.5	2.5	2.0
LN94-3107	1.0	2.0	1.5	2.5	2.5
LN94-3122	2.0	1.5	2.0	2.5	2.0
LN94-4373	1.0	2.0	2.0	2.5	1.5
LN94-5232	2.0	2.0	2.0	2.5	2.3
LN94-9087	1.0	2.0	2.0	2.5	2.8
LN94-9985	2.0	1.5	2.0	2.5	2.0
U96-2326	1.0	1.5	1.5	2.5	2.5
U96-3103	2.0	1.5	2.0	2.5	1.8
U96-3106	1.0	1.5	2.0	2.5	2.0
U96-3118	2.0	3.0	2.5	2.5	2.8
U96-3302	1.0	2.0	2.0	2.5	2.0
U96-3306	2.0	1.5	2.0	2.5	2.5
U96-3413	1.0	2.0	2.0	2.5	2.3
U96-3421	1.0	1.5	1.5	1.5	2.0
U96-3423	2.0	2.0	2.0	1.5	2.3
U96-3427	2.0	3.0	2.0	2.5	4.0
U96-3431	2.0	1.5	2.0	1.5	1.8
U96-3434	1.0	2.0	2.0	2.5	2.0

PRELIMINARY TEST IIIA, 1997

SEED SIZE (g/100)

Strain	Mean 10 Tests	Fair- field IA	Stuart IA	Urbana IL	Lafay- ette IN	Man- hattan KS
IA2022 (II)	15.7	15.0	16.1	14.1	15.3	17.5
Iroquois (III)	16.0	15.6	16.3	15.4	14.0	17.1
Macon (L)	18.0	17.9	17.7	18.3	16.3	18.1
C1953	18.4	17.4	18.5	17.5	17.7	18.7
C1960	18.1	17.0	17.7	17.9	16.3	18.0
C1961	18.9	19.0	18.6	19.4	16.6	20.5
C1962	17.7	17.7	17.3	17.7	16.0	18.7
C1964	17.0	16.9	16.9	16.5	15.5	17.0
HC93-2380	16.0	17.1	15.6	16.3	14.0	16.9
HC93-2544	15.6	16.3	15.1	15.9	14.4	15.7
HP95-078	14.8	14.9	15.4	14.6	12.8	15.0
HP95-088	15.0	14.3	15.3	14.8	13.5	15.0
K1375	16.1	15.9	16.1	16.3	14.1	17.4
K1376	16.0	15.9	15.8	14.5	13.7	17.1
LG93-7654	15.4	15.6	15.5	15.5	13.5	16.7
LG93-7780	18.1	18.4	19.9	17.6	16.5	17.0
LN93-736	18.3	17.9	19.4	18.1	16.2	21.9
LN93-9255	16.9	16.3	17.7	16.4	16.5	18.0
LN93-12227	16.4	15.2	18.1	14.9	15.0	16.9
LN94-2879	15.5	16.0	15.8	14.7	13.1	17.4
LN94-3096	15.0	15.1	16.7	14.8	12.7	14.0
LN94-3104	15.6	16.6	16.0	15.4	13.5	16.1
LN94-3107	15.8	16.6	16.6	15.5	13.7	14.8
LN94-3122	14.8	14.6	16.6	14.1	13.1	16.0
LN94-4373	15.8	15.4	15.8	15.7	14.3	18.0
LN94-5232	14.5	13.6	15.7	13.8	12.0	16.9
LN94-9087	17.6	17.8	17.6	17.4	16.5	18.7
LN94-9985	15.7	16.1	16.4	15.3	14.4	16.9
U96-2326	19.4	19.2	18.9	21.1	17.5	19.4
U96-3103	15.0	14.6	15.3	12.9	13.9	15.2
U96-3106	17.7	17.6	18.5	16.1	15.7	19.0
U96-3118	17.1	15.9	17.0	16.1	14.9	18.6
U96-3302	16.6	17.3	17.1	14.8	14.5	18.2
U96-3306	16.6	15.1	16.2	16.0	15.1	18.9
U96-3413	15.1	14.5	15.1	14.9	12.8	15.5
U96-3421	15.1	14.2	16.3	13.7	13.3	17.6
U96-3423	16.7	16.9	16.8	17.6	15.2	17.7
U96-3427	18.2	17.4	18.1	18.2	17.0	19.5
U96-3431	15.1	14.5	15.2	14.5	12.4	17.1
U96-3434	17.1	17.0	17.4	16.7	14.8	18.3

PRELIMINARY TEST IIIA, 1997

Strain	SEED SIZE (g/100)				
	Columbia MO	McCool Jct. NE	Tekamah NE	Hoyt- ville OH	So. Charles- ton OH
IA2022 (II)	16.5	15.4	16.1	15.3	15.7
Iroquois (III)	18.1	15.2	16.2	16.2	16.0
Macon (L)	15.4	15.4	22.0	19.3	19.2
C1953	19.1	17.5	19.7	19.5	18.8
C1960	19.9	17.4	17.0	21.4	18.6
C1961	18.0	17.4	19.0	21.6	18.9
C1962	15.9	18.2	17.6	19.6	17.8
C1964	16.0	16.7	17.6	19.4	17.3
HC93-2380	17.3	14.4	16.5	15.8	16.2
HC93-2544	14.4	13.8	16.7	16.8	16.6
HF95-078	14.2	14.2	16.3	16.0	14.9
HF95-088	15.1	14.6	16.2	16.3	15.3
K1375	15.9	14.8	16.2	17.0	16.8
K1376	18.2	14.2	18.6	15.6	16.7
LG93-7654	17.6	14.3	15.3	15.0	15.1
LG93-7780	21.3	16.2	18.3	17.0	18.6
LN93-736	19.0	15.9	18.0	18.1	18.4
LN93-9255	18.7	14.6	17.1	16.6	17.5
LN93-12227	18.5	16.0	17.7	15.7	15.7
LN94-2879	15.8	14.0	16.1	15.9	15.7
LN94-3096	16.0	14.5	15.8	15.0	15.5
LN94-3104	16.3	14.1	14.8	16.5	16.5
LN94-3107	17.0	14.7	16.6	15.8	16.3
LN94-3122	14.6	13.9	14.8	15.7	14.1
LN94-4373	16.1	13.6	16.6	16.3	16.2
LN94-5232	15.5	13.3	15.0	14.4	14.8
LN94-9087	18.9	14.8	18.0	17.0	19.3
LN94-9985	15.0	15.0	15.8	16.0	15.8
U96-2326	18.3	17.9	19.3	21.1	21.4
U96-3103	17.2	15.1	15.4	16.0	14.8
U96-3106	16.1	16.9	19.1	18.5	19.0
U96-3118	16.4	17.5	20.3	17.2	17.4
U96-3302	16.9	15.6	17.2	17.1	16.9
U96-3306	15.6	16.2	17.8	18.2	16.9
U96-3413	17.7	13.6	14.9	16.5	15.2
U96-3421	16.1	14.7	15.6	14.8	14.3
U96-3423	14.8	16.1	17.5	17.9	16.7
U96-3427	16.4	18.7	19.7	18.5	18.7
U96-3431	15.6	14.7	15.9	15.8	15.2
U96-3434	19.2	15.9	16.0	18.1	17.4

PRELIMINARY TEST IIIA, 1997

PROTEIN (%)

Strain	Mean 5 Tests	Fairfield IA	Urbana IL	Lafayette IN	Lincoln NE	Hoytville OH
IA2022 (II)	40.6	41.3	38.7	40.8	40.0	42.1
Iroquois (III)	41.0	41.6	40.2	40.5	41.1	41.7
Macon (L)	40.7	41.2	38.9	39.9	41.5	42.1
C1953	40.3	40.1	38.6	40.5	40.2	41.9
C1960	39.7	40.9	38.4	39.3	38.6	41.2
C1961	42.2	42.7	41.3	41.9	41.7	43.5
C1962	39.4	40.1	37.9	39.0	38.9	41.3
C1964	39.2	39.6	38.0	38.4	39.0	41.2
HC93-2380	40.3	41.3	40.7	39.4	40.6	39.6
HC93-2544	42.4	42.5	41.6	42.0	43.2	42.6
HF95-078	40.9	42.0	40.1	40.5	40.6	41.4
HF95-088	40.9	41.0	40.2	40.6	41.3	41.4
K1375	41.5	40.7	41.0	41.4	41.7	42.5
K1376	40.9	40.8	40.6	40.1	41.9	41.2
LG93-7654	42.1	42.7	41.0	42.6	42.2	42.2
LG93-7780	42.4	43.2	41.9	41.6	42.6	42.8
LN93-736	41.9	42.1	40.9	41.8	42.4	42.2
LN93-9255	40.0	40.2	40.0	40.3	39.8	39.8
LN93-12227	40.6	40.3	39.4	39.9	41.5	41.7
LN94-2879	41.5	41.9	40.9	41.2	41.7	42.0
LN94-3096	41.0	41.3	40.4	40.8	41.5	40.9
LN94-3104	41.4	41.5	41.7	41.6	41.2	41.0
LN94-3107	41.1	40.8	41.0	41.3	41.4	41.0
LN94-3122	40.5	40.6	39.7	40.2	40.8	41.2
LN94-4373	40.1	40.7	39.5	39.8	40.5	40.2
LN94-5232	41.4	40.8	41.1	41.1	42.3	41.8
LN94-9087	41.8	42.6	41.9	41.8	42.8	39.8
LN94-9985	41.9	42.7	40.6	42.5	41.6	41.9
U96-2326	40.0	41.3	38.2	39.4	40.2	41.1
U96-3103	40.7	42.0	39.8	38.9	41.4	41.5
U96-3106	40.8	40.1	40.3	40.0	41.1	42.5
U96-3118	41.2	42.2	39.9	41.1	42.8	40.1
U96-3302	42.2	42.8	40.7	42.1	42.9	42.5
U96-3306	40.7	42.3	38.7	39.9	40.8	41.7
U96-3413	41.1	41.4	40.1	39.3	41.9	42.9
U96-3421	40.6	41.3	39.3	38.6	41.1	42.7
U96-3423	40.8	41.1	40.1	39.9	41.0	41.8
U96-3427	40.7	41.3	38.8	39.8	41.0	42.7
U96-3431	39.9	40.6	38.5	38.4	40.5	41.4
U96-3434	39.8	40.5	38.5	38.6	40.2	41.4

PRELIMINARY TEST IIIA, 1997

Strain	OIL (%)					
	Mean 5 Tests	Fairfield IA	Urbana IL	Lafayette IN	Lincoln NE	Hoytville OH
IA2022 (II)	20.1	20.0	21.3	20.6	19.9	18.6
Iroquois (III)	20.4	20.5	20.8	21.4	20.6	18.9
Macon (L)	19.8	19.8	21.4	20.3	19.3	18.4
C1953	20.7	20.6	22.2	21.1	20.7	18.9
C1960	21.1	21.1	22.1	21.4	21.4	19.4
C1961	20.0	19.9	21.2	20.4	20.3	18.0
C1962	21.2	21.3	22.5	21.6	21.8	18.8
C1964	20.9	21.1	21.8	21.5	20.9	19.0
HC93-2380	20.1	20.0	20.6	20.6	19.7	19.6
HC93-2544	19.2	19.5	20.2	20.0	18.8	17.5
HF95-078	19.9	20.1	20.1	20.1	19.5	19.9
HF95-088	19.9	19.9	20.4	20.4	19.8	19.2
K1375	20.0	20.2	20.6	20.5	20.2	18.5
K1376	20.0	20.1	20.6	20.6	19.7	19.1
LG93-7654	19.3	19.2	20.5	19.0	19.7	18.1
LG93-7780	19.4	18.9	20.3	20.5	18.8	18.4
LN93-736	18.5	18.8	19.2	18.8	18.7	17.2
LN93-9255	20.7	20.8	21.2	21.0	20.8	19.8
LN93-12227	20.6	20.7	22.0	21.5	20.1	18.8
LN94-2879	20.5	21.1	21.0	20.5	20.4	19.3
LN94-3096	19.9	19.9	20.6	19.8	20.4	18.6
LN94-3104	19.7	20.4	21.0	18.9	19.7	18.6
LN94-3107	19.5	19.6	19.9	19.8	19.9	18.1
LN94-3122	20.0	20.7	20.2	19.7	20.3	18.9
LN94-4373	20.6	21.1	21.4	21.0	20.6	19.1
LN94-5232	20.2	20.5	21.0	20.3	20.1	19.2
LN94-9087	19.5	19.2	19.9	20.8	18.8	19.0
LN94-9985	20.3	19.7	20.8	19.9	20.0	20.9
U96-2326	20.6	20.4	22.2	20.7	20.8	18.9
U96-3103	19.6	19.0	19.7	20.4	19.4	19.5
U96-3106	20.3	20.6	21.1	21.4	20.1	18.2
U96-3118	19.6	19.3	20.7	19.7	19.0	19.2
U96-3302	19.3	19.4	19.8	19.7	19.5	18.0
U96-3306	20.3	19.5	21.0	20.7	20.4	20.0
U96-3413	19.5	19.1	20.2	20.2	19.6	18.5
U96-3421	20.7	20.4	22.2	21.9	20.8	18.4
U96-3423	20.4	20.2	21.4	21.1	21.0	18.3
U96-3427	19.8	19.4	21.0	20.7	19.9	17.8
U96-3431	21.0	20.4	22.8	22.0	20.6	19.3
U96-3434	19.9	19.3	20.8	20.9	19.3	19.2

Preliminary Test IIIB

Strain	Parentage	Generation Composited	Unique Traits
1. IA2022 (II)	Asgrow A3205 x Dairyland DSR 304	F5	
2. Iroquois (III)	LN81-1029 x Asgrow A2943	F5	Rps?
3. Macon (L)	Sherman x Resnik	F5	
4. A96-591017	IA3003 x Dairyland DSR-217	F5	
5. A96-591046	Northrup King S24-92 x Parker	F5	
6. A96-591061	IA3003 x Dairyland DSR-217	F5	
7. A96-591072	Northrup King S35-35 x IA3003	F5	
8. A96-597020	HM8890 x Northrup King S24-92	F5	BSR
9. A96-691003	Pioneer 9273 x Northrup King S19-90	F5	
10. A96-691006	Northrup King S24-92 x Northrup King S19-90	F5	
11. A96-692002	Parker x AgriPro AP3035	F5	
12. A96-692011	Pioneer 9273 x Northrup King S19-90	F5	
13. A96-692044	IA3003 x Pioneer 9273	F5	
14. A96-692048	IA3003 x Northrup King S24-92	F5	
15. A96-692057	AgriPro AP3035 x Northrup King S24-92	F5	
16. C1948	Resnik x (Edison x PI 80.837)	F5	
17. HS94-1697	HS90-6765 x HS89-2943	F5	Rps1-k
18. HS95-4826	HS90-6765 x HS88-4909	F5	Rps1-k
19. HS95-4830	HS90-6765 x HS88-4909	F5	Rps1-k
20. HS95-4853	HS88-4909 x Spry	F5	Rps1-k
21. HS95-4860	HS88-4909 x Spry	F5	Rps1-k
22. HS95-4866	HS88-4909 x Spry	F5	Rps1-k
23. LS94-0451	Flyer x Nile	F6	SCN
24. LS94-0628	Flyer x Nile	F6	SCN
25. SS94-10130	Pioneer 9391 x Williams 82	F5	
26. SS94-10476	Pioneer 9341 x Asgrow A3935	F5	
27. SS94-10696	Pioneer 9442 x Asgrow A4393	F5	
28. SS94-13392	Asgrow A3935 x Pioneer 9391	F5	
29. Charleston (dt1)	LN84-7577 x Resnik	F5	
30. HC93-582	HC78-676BC x Kenwood	F5	dt1
31. HC93-596	HC78-676BC x Kenwood	F5	dt1
32. HC93-868	HC85-6723 x Sprite 87	F5	dt1
33. HC93-1227	Charleston x HC78-676BC	F5	dt1
34. HC93-1329	HC78-676BC x Flyer	F5	dt1
35. HC93-1544	HC84-2556 x HC78-676BC	F5	dt1
36. HC94-81PR	Charleston(5) x Sprite 87	BC4F3	dt1, Rps1-k
37. HC94-96PR	HC85-606(4) x HC74-634REBC	BC3F3	dt1, Rps1-k
38. HC94-421	Sprite 87 x HC85-6577	F5	dt1
39. HC95-24MB	Hobbit 87 x HC83-123-9	F12	dt1, Insect
40. U96-2208	Colfax x A91-701035	F4	dt1

PRELIMINARY TEST IIIB, 1997

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	<u>Chlorosis</u>	<u>Shattering</u>	<u>BSR Resistance</u>	
		Score Ames	Score Manhattan	% Incid.	% Sev.
IA2022 (II)	PGBrSYBlEpI	3.1	2.0		
Iroquois (III)	PGBrDYIbepI	2.7	2.0		
Macon (L)	WTTnSYBlEpI	3.5	2.0		
A96-591017	PTBrSYBlEpI	3.0	2.0	70.0	16.0
A96-591046	WGBrDYBfEpI	2.8	2.0	85.0	27.0
A96-591061	PTBrSYBlEpI	3.0	2.0	45.0	11.0
A96-591072	PTBrSYBlEpI	2.5	2.0	65.0	22.0
A96-597020	PTBrDYBlEpI	3.1	2.0	85.0	23.0
A96-691003	PTBrDYBlEpI	3.2	2.0	100.0	55.0
A96-691006	PTTnDYBlEpI	3.1	2.0	95.0	38.0
A96-692002	PGBrDYIbepI	2.8	2.0	100.0	35.0
A96-692011	PTTnDYHHI	2.1	2.0	100.0	48.0
A96-692044	PTBrDYBlHI	3.1	2.0	85.0	42.0
A96-692048	PTBrIYBlEpI	3.5	3.0	85.0	24.0
A96-692057	PG+TBrDYHEpI	3.7	2.0	100.0	36.0
C1948	PTTnDYBLEpI	3.3	2.0		
HS94-1697	WTTnDYBlEpI	3.2	2.0		
HS95-4826	PGBrDYIbEpI	2.7	2.0		
HS95-4830	PGBrDYIbHI	3.1	2.0		
HS95-4853	PGBrDYIbHI	3.0	2.0		
HS95-4860	PGBrDYIbEpI	2.6	2.0		
HS95-4866	PGBrDYIbEpI	2.8	2.0		
LS94-0451	WTTnSYBlEpI	3.7	2.0		
LS94-0628	WTTnSYBlEpI	2.7	2.0		
SS94-10130	WTTnSYLBlEpI	3.2	2.0		
SS94-10476	PTTnDYBlEpI	3.1	2.0		
SS94-10696	PTTnDYBlEpI	3.2	2.0		
SS94-13392	PTTnDYBlEpI	3.2	2.0		
Charleston (dt1)	PTTnSYBlEpD	2.2	2.0		
HC93-582	PTBrDYBrepD	4.1	2.0		
HC93-596	PTBrDYBlEpD	3.3	2.0		
HC93-868	WTTnSYBlEpD	3.0	2.0		
HC93-1227	PTTnSYBrEpD	2.8	2.0		
HC93-1329	PTBrDYBlEpD	3.1	2.0		
HC93-1544	PTTnDYBrepD	2.2	2.0		
HC94-81PR	PTTnSYBlHD	2.7	2.0		
HC94-96PR	PTTnIYBlEpD	4.1	2.0		
HC94-421	WTTnDYBlEpD	1.8	2.0		
HC95-24MB	WTTnDYBlHD	2.3	2.0		
U96-2208	WGBrSYBfEpSD	3.1	2.0		

PRELIMINARY TEST IIIB, 1997

DISEASE DATA

Strain	Ames Race 4	PR	Hard Seed Lafayette %	PS	P&SB
		Lafayette Race 7		a %	n %
IA2022 (II)		S	6	42	2
Iroquois (III)		S	0	10	0
Macon (L)		S	0	28	0
A96-591017	S	S	0	16	0
A96-591046	S	S	0	28	0
A96-591061	S	S	0	14	2
A96-591072	S	S	0	24	0
A96-597020	S	S	0	14	0
A96-691003	S	R	0	12	0
A96-691006	S	S	0	22	0
A96-692002	S	R	0	6	0
A96-692011	S	S	0	16	0
A96-692044	S	S	0	12	0
A96-692048	S	S	2	6	2
A96-692057	S	S	0	0	0
C1948	R	R	0	6	0
HS94-1697	H	S	0	8	0
HS95-4826	H	R	0	6	0
HS95-4830	R	R	0	18	0
HS95-4853	H	R	0	12	6
HS95-4860	R	R	0	14	6
HS95-4866	R	R	0	16	0
LS94-0451	S	R	0	6	0
LS94-0628	S	S	0	0	0
SS94-10130	S	R	0	20	0
SS94-10476	S	S	0	0	0
SS94-10696	S	S	0	22	2
SS94-13392	S	R	0	6	0
Charleston (dt1)			4	0	0
HC93-582	S	S	0	32	0
HC93-596	S	S	4	32	0
HC93-868	S	R	0	4	0
HC93-1227	S	R	0	6	0
HC93-1329	S	R	0	6	0
HC93-1544	S	S	2	28	0
HC94-81PR	R	R	0	2	0
HC94-96PR	S	R	0	6	0
HC94-421	S	S	0	4	0
HC95-24MB	R	R	0	2	0
U96-2208	S	S	0	4	0

PRELIMINARY TEST IIIB, 1997

REGIONAL SUMMARY

No. of Tests Strain	Yield	Rank	Maturity	Lodging	Plant	Seed	Seed	<u>Composition</u>	
	10 bu/a	10 No.	9 Date	10 Score	Height 10 In.	Quality 10 Score	Size 10 g/100	Protein 5 %	Oil 5 %
IA2022 (II)	56.8	21	-3.6	1.3	33	2.2	15.6	40.5	20.3
Iroquois (III)	57.1	18	9/23	1.5	34	2.0	16.1	40.7	20.1
Macon (L)	59.4	6	5.0	1.3	33	2.0	17.5	40.9	20.0
A96-591017	54.8	30	-5.9	1.3	29	2.1	19.4	40.7	20.1
A96-591046	57.9	14	-6.0	1.5	33	2.0	15.8	40.6	20.3
A96-591061	55.1	28	-5.7	1.5	31	2.1	19.4	40.4	20.0
A96-591072	58.6	9	-4.7	1.2	29	1.9	18.5	41.8	19.3
A96-597020	53.4	35	-5.3	1.1	28	2.0	16.6	41.1	20.4
A96-691003	54.8	30	2.6	1.4	32	1.8	16.7	39.1	20.8
A96-691006	58.4	11	-2.0	1.4	33	2.1	17.2	41.0	20.3
A96-692002	57.8	16	0.4	1.4	35	2.2	16.6	40.9	20.4
A96-692011	55.1	28	0.8	1.3	33	2.4	16.7	41.4	20.5
A96-692044	58.7	8	2.7	1.5	32	2.1	16.9	39.1	20.7
A96-692048	56.7	22	-2.9	1.3	31	2.2	17.5	41.2	19.7
A96-692057	60.8	4	3.2	1.5	31	2.0	15.8	40.7	20.3
C1948	54.3	34	-0.4	1.4	30	2.1	16.1	41.9	20.1
HS94-1697	58.3	12	2.8	1.5	36	2.0	16.1	41.3	20.5
HS95-4826	55.4	27	4.4	1.8	44	2.4	17.3	40.4	20.4
HS95-4830	58.6	9	0.4	1.4	37	2.3	17.3	39.9	21.2
HS95-4853	56.5	24	-0.6	1.7	39	2.0	16.7	41.0	21.1
HS95-4860	54.6	32	-0.2	1.5	39	1.9	17.8	41.5	21.0
HS95-4866	56.7	22	-2.0	1.5	38	1.8	16.2	41.2	20.7
LS94-0451	47.5	40	1.8	1.7	36	1.8	14.9	41.5	19.9
LS94-0628	51.1	38	3.1	1.5	37	1.9	14.7	40.9	19.7
SS94-10130	53.3	36	7.4	1.8	38	2.0	15.5	39.9	20.0
SS94-10476	61.5	3	8.3	1.4	34	2.0	16.6	41.8	20.0
SS94-10696	55.6	26	6.4	1.4	37	1.9	17.6	40.2	20.5
SS94-13392	54.4	33	6.6	1.5	36	2.0	14.9	40.9	19.6
Charleston (dt1)	57.6	17	4.4	1.4	25	1.6	15.7	41.0	20.1
HC93-582	52.2	37	3.9	1.2	21	2.0	15.4	38.4	20.4
HC93-596	56.9	19	3.4	1.2	23	2.2	13.6	39.0	20.8
HC93-868	59.5	5	5.2	1.4	23	1.8	17.0	40.2	21.3
HC93-1227	56.9	19	2.8	1.3	24	1.7	15.1	40.9	19.9
HC93-1329	58.8	7	3.9	1.1	24	2.1	16.5	41.3	19.7
HC93-1544	56.4	25	4.4	1.2	25	2.0	15.2	40.6	19.6
HC94-81PR	58.2	13	5.1	1.3	23	1.9	17.2	40.0	20.4
HC94-96PR	61.6	2	4.6	1.3	25	1.8	16.8	39.0	21.3
HC94-421	57.9	14	3.1	1.4	26	1.8	17.3	40.1	20.9
HC95-24MB	50.1	39	2.8	1.4	23	1.6	14.2	41.2	19.4
U96-2208	63.4	1	0.1	1.2	26	2.2	18.9	38.9	21.1

PRELIMINARY TEST IIIB, 1997

Strain	YIELD (bu/a)					
	Mean 10 Tests	Fair- field IA	Stuart IA	Urbana IL	Lafay- ette IN	Man- hattan KS
IA2022 (II)	56.8	74.2	40.7	54.3	52.6	49.4
Iroquois (III)	57.1	66.3	46.0	62.5	47.2	50.0
Macon (L)	59.4	73.5	40.2	73.1	48.0	51.7
A96-591017	54.8	72.3	41.5	58.0	46.7	39.2
A96-591046	57.9	66.0	44.2	59.2	48.3	53.6
A96-591061	55.1	67.7	44.3	56.9	47.2	46.6
A96-591072	58.6	74.4	43.9	66.0	49.7	49.7
A96-597020	53.4	68.0	39.5	56.8	42.6	42.8
A96-691003	54.8	66.1	39.2	59.4	44.3	49.2
A96-691006	58.4	77.7	49.5	58.3	45.5	50.7
A96-692002	57.8	74.4	38.8	63.3	47.0	54.7
A96-692011	55.1	69.0	38.7	57.1	47.7	51.0
A96-692044	58.7	70.7	46.1	64.5	48.7	51.3
A96-692048	56.7	72.6	42.5	60.9	44.3	44.9
A96-692057	60.8	69.7	47.8	69.7	50.8	55.8
C1948	54.3	62.7	38.0	55.7	48.0	51.3
HS94-1697	58.3	69.4	44.9	60.7	48.5	54.7
HS95-4826	55.4	70.2	40.5	60.4	43.0	53.6
HS95-4830	58.6	66.9	48.1	62.0	43.9	49.6
HS95-4853	56.5	68.0	46.4	59.1	45.8	49.2
HS95-4860	54.6	66.4	44.1	57.8	44.4	48.4
HS95-4866	56.7	72.2	43.9	59.6	46.4	48.9
LS94-0451	47.5	61.4	34.7	54.4	36.1	34.3
LS94-0628	51.1	63.3	39.6	53.3	42.1	50.6
SS94-10130	53.3	62.3	46.5	58.2	42.8	54.1
SS94-10476	61.5	75.3	53.2	74.7	47.3	57.0
SS94-10696	55.6	67.8	44.8	60.2	48.1	51.4
SS94-13392	54.4	63.1	43.3	62.4	39.4	50.7
Charleston (dt1)	57.6	68.0	43.1	62.1	48.7	49.5
HC93-582	52.2	68.9	48.7	53.5	27.8	49.6
HC93-596	56.9	65.0	53.5	62.8	29.4	53.9
HC93-868	59.5	62.6	47.8	62.7	49.7	51.3
HC93-1227	56.9	59.5	50.9	65.9	37.8	51.6
HC93-1329	58.8	72.8	52.3	61.8	46.5	51.3
HC93-1544	56.4	62.4	48.0	62.8	38.3	50.8
HC94-81PR	58.2	67.2	47.1	59.0	47.1	47.3
HC94-96PR	61.6	70.5	50.0	67.3	49.3	51.1
HC94-421	57.9	66.1	47.6	65.3	45.7	52.8
HC95-24MB	50.1	57.3	33.9	56.0	40.6	53.6
U96-2208	63.4	77.4	48.0	69.9	48.5	51.6
C.V. (%)		7.1	9.7	4.8	8.8	6.4
L.S.D. (5%)		9.8	9.0	6.0	8.0	6.6
Row Sp. (In.)		27	27	30	24	30
Rows/Plot		4	4	4	4	4
Reps		2	2	3	2	2

PRELIMINARY TEST IIIB, 1997

Strain	YIELD (bu/a)				
	Columbia MO	McCool Jct. NE	Tekamah NE	Hoyt- ville OH	So. Charles- ton OH
IA2022 (II)	37.5	68.6	72.9	42.9	75.0
Iroquois (III)	34.3	70.0	69.0	49.1	76.2
Macon (L)	44.5	69.4	70.8	42.6	80.2
A96-591017	26.3	68.2	77.8	43.9	73.6
A96-591046	36.3	76.3	75.1	45.2	74.5
A96-591061	25.2	73.1	75.5	42.7	71.5
A96-591072	37.5	71.2	76.5	42.4	74.8
A96-597020	18.9	71.1	74.9	43.3	76.0
A96-691003	35.6	64.7	64.5	51.1	73.8
A96-691006	36.0	68.4	71.6	48.4	77.8
A96-692002	32.2	74.5	74.3	47.6	71.6
A96-692011	42.1	66.7	67.3	41.6	69.4
A96-692044	46.0	72.3	68.9	42.5	76.4
A96-692048	30.3	72.6	78.6	46.0	74.7
A96-692057	32.8	74.6	73.1	54.6	79.0
C1948	35.9	70.2	63.6	46.3	71.0
HS94-1697	46.6	69.0	69.0	45.9	74.7
HS95-4826	39.0	69.1	67.6	40.8	69.5
HS95-4830	42.4	72.8	73.9	49.5	76.8
HS95-4853	38.9	71.2	70.6	48.0	67.4
HS95-4860	32.9	68.7	68.0	48.3	66.6
HS95-4866	46.6	67.3	69.5	44.5	68.2
LS94-0451	41.8	56.7	55.2	40.9	59.5
LS94-0628	36.0	64.7	61.7	37.8	62.1
SS94-10130	37.7	63.2	55.5	48.0	64.3
SS94-10476	45.0	68.2	69.4	47.1	77.5
SS94-10696	38.5	62.0	66.0	41.6	75.2
SS94-13392	40.5	62.4	68.6	44.7	68.9
Charleston (dt1)	31.1	71.6	74.8	46.0	80.7
HC93-582	27.0	69.2	66.2	38.6	72.1
HC93-596	29.8	70.3	74.8	45.9	83.8
HC93-868	40.1	71.6	71.5	55.5	81.9
HC93-1227	32.5	74.2	71.6	49.5	75.5
HC93-1329	29.7	67.8	77.5	48.9	79.7
HC93-1544	37.8	71.6	75.9	43.1	73.5
HC94-81PR	28.6	76.0	76.3	47.9	85.0
HC94-96PR	44.9	77.3	74.5	50.8	80.3
HC94-421	36.7	65.9	72.7	44.6	81.4
HC95-24MB	27.3	62.6	52.2	51.0	66.1
U96-2208	44.2	78.2	80.0	53.7	82.8
C.V. (%)	11.6	5.1	4.0	5.5	4.8
L.S.D. (5%)	8.5	7.1	5.7	3.6	7.2
Row Sp. (In.)	30	30	30	30	8
Rows/Plot	4	4	4	4	8.0
Reps	2	2	2	2	2

PRELIMINARY TEST IIIB, 1997

Strain	YIELD RANK					
	Yield Rank	Fair-field IA	Stuart IA	Urbana IL	Lafayette IN	Manhattan KS
IA2022 (II)	21	6	30	38	1	30
Iroquois (III)	18	27	18	14	16	25
Macon (L)	6	7	32	2	12	11
A96-591017	30	10	29	30	20	39
A96-591046	14	30	22	25	10	8
A96-591061	28	23	21	33	16	36
A96-591072	9	4	24	6	3	26
A96-597020	35	19	34	34	32	38
A96-691003	30	28	35	24	27	32
A96-691006	11	1	6	28	25	22
A96-692002	16	4	36	10	19	3
A96-692011	28	17	37	32	14	20
A96-692044	8	12	17	9	6	15
A96-692048	22	9	28	19	27	37
A96-692057	4	15	11	4	2	2
C1948	34	34	38	36	12	15
HS94-1697	12	16	19	20	8	3
HS95-4826	27	14	31	21	30	8
HS95-4830	9	25	8	17	29	26
HS95-4853	24	19	16	26	23	31
HS95-4860	32	26	23	31	26	34
HS95-4866	22	11	24	23	22	33
LS94-0451	40	38	39	37	38	40
LS94-0628	38	32	33	40	33	24
SS94-10130	36	37	15	29	31	5
SS94-10476	3	3	2	1	15	1
SS94-10696	26	22	20	22	11	14
SS94-13392	33	33	26	15	35	22
Charleston (dt1)	17	19	27	16	6	29
HC93-582	37	18	7	39	40	27
HC93-596	19	31	1	11	39	6
HC93-868	5	35	11	13	3	15
HC93-1227	19	39	4	7	37	12
HC93-1329	7	8	3	18	21	15
HC93-1544	25	36	9	11	36	21
HC94-81PR	13	24	14	27	18	35
HC94-96PR	2	13	5	5	5	19
HC94-421	14	28	13	8	24	10
HC95-24MB	39	40	40	35	34	7
U96-2208	1	2	9	3	8	12

PRELIMINARY TEST IIIB, 1997

Strain	YIELD RANK				
	Columbia MO	McCool Jct. NE	Tekamah NE	Hoyt- ville OH	So. Charles- ton OH
IA2022 (II)	18	26	17	30	19
Iroquois (III)	26	20	26	9	15
Macon (L)	6	21	22	32	8
A96-591017	38	29	3	27	25
A96-591046	21	3	9	23	23
A96-591061	39	8	8	31	29
A96-591072	18	15	5	34	20
A96-597020	40	17	10	28	16
A96-691003	25	35	35	4	24
A96-691006	22	27	19	11	11
A96-692002	30	6	14	16	28
A96-692011	9	32	32	35	32
A96-692044	3	11	28	33	14
A96-692048	32	10	2	19	21
A96-692057	28	5	16	2	10
C1948	24	19	36	18	30
HS94-1697	1	24	27	21	21
HS95-4826	13	23	31	38	31
HS95-4830	8	9	15	7	13
HS95-4853	14	16	23	13	35
HS95-4860	27	25	30	12	36
HS95-4866	1	31	24	26	34
LS94-0451	10	40	39	37	40
LS94-0628	22	34	37	40	39
SS94-10130	17	36	38	13	38
SS94-10476	4	28	25	17	12
SS94-10696	15	39	34	35	18
SS94-13392	11	38	29	24	33
Charleston (dt1)	31	14	11	19	6
HC93-582	37	22	33	39	27
HC93-596	33	18	12	21	2
HC93-868	12	13	21	1	4
HC93-1227	29	7	20	7	17
HC93-1329	34	30	4	10	9
HC93-1544	16	12	7	29	26
HC94-81PR	35	4	6	15	1
HC94-96PR	5	2	13	6	7
HC94-421	20	33	18	25	5
HC95-24MB	36	37	40	5	37
U96-2208	7	1	1	3	3

PRELIMINARY TEST IIIB, 1997

MATURITY (date)

Strain	Mean 9 Tests	Fair- field IA	Stuart IA	Urbana IL	Lafay- ette IN	Man- hattan KS
IA2022 (II)	-3.6		-5	-6	-1	-7
Iroquois (III)	9/23		09/22	09/21	09/22	09/26
Macon (L)	5.0		4	6	7	4
A96-591017	-5.9		-10	-10	-5	-9
A96-591046	-6.0		-9	-9	-8	-9
A96-591061	-5.7		-8	-9	-5	-11
A96-591072	-4.7		-6	-9	-4	-10
A96-597020	-5.3		-9	-7	-7	-9
A96-691003	2.6		-2	3	3	2
A96-691006	-2.0		-4	-1	-1	-6
A96-692002	0.4		1	1	-1	0
A96-692011	0.8		-2	2	1	-6
A96-692044	2.7		3	3	0	2
A96-692048	-2.9		-6	-5	-4	-4
A96-692057	3.2		5	1	2	3
C1948	-0.4		0	-3	0	-6
HS94-1697	2.8		3	2	4	5
HS95-4826	4.4		4	3	5	3
HS95-4830	0.4		2	0	-1	0
HS95-4853	-0.6		-2	-3	0	-3
HS95-4860	-0.2		-5	0	1	-4
HS95-4866	-2.0		-5	-4	-1	-7
LS94-0451	1.8		-2	3	3	-3
LS94-0628	3.1		4	5	5	-1
SS94-10130	7.4		7	11	9	3
SS94-10476	8.3		7	10	9	5
SS94-10696	6.4		6	7	5	5
SS94-13392	6.6		7	8	9	3
Charleston (dt1)	4.4		6	6	4	3
HC93-582	3.9		5	3	3	4
HC93-596	3.4		6	3	1	4
HC93-868	5.2		6	5	8	4
HC93-1227	2.8		5	4	4	0
HC93-1329	3.9		4	4	5	3
HC93-1544	4.4		5	3	5	5
HC94-81PR	5.1		6	5	5	5
HC94-96PR	4.6		5	3	5	4
HC94-421	3.1		4	4	1	3
HC95-24MB	2.8		2	3	3	3
U96-2208	0.1		0	0	-2	1
Date Planted	05/15		05/16	04/29	05/15	05/20
Days to Mature	131.2		129	145	130	129

PRELIMINARY TEST IIIB, 1997

Strain	MATURITY (date)				
	Columbia MO	McCool Jct. NE	Tekamah NE	Hoyt- ville OH	So. Charles- ton OH
IA2022 (II)	-3	-1	-2	-5	-2
Iroquois (III)	09/16	09/20	09/29	10/03	09/23
Macon (L)	5	7	3	4	5
A96-591017	-7	-1	-2	-2	-7
A96-591046	-7	-1	-2	-5	-4
A96-591061	-6	-1	-3	-3	-5
A96-591072	-6	0	-3	-1	-3
A96-597020	-6	0	-2	-4	-4
A96-691003	-2	5	1	5	8
A96-691006	-3	1	-1	-4	1
A96-692002	-2	3	1	0	1
A96-692011	0	5	1	0	6
A96-692044	3	2	2	4	5
A96-692048	-5	1	-2	0	-1
A96-692057	0	3	4	4	7
C1948	0	-1	1	3	2
HS94-1697	4	1	2	0	4
HS95-4826	2	7	4	4	8
HS95-4830	0	0	2	2	-1
HS95-4853	1	1	0	-1	2
HS95-4860	-1	1	1	2	3
HS95-4866	-2	-1	-1	1	2
LS94-0451	1	4	1	2	7
LS94-0628	3	1	3	3	5
SS94-10130	5	8	5	7	12
SS94-10476	8	9	6	10	11
SS94-10696	7	8	6	7	7
SS94-13392	5	8	4	7	8
Charleston (dt1)	-1	6	3	6	7
HC93-582	2	8	2	2	6
HC93-596	1	5	3	2	6
HC93-868	2	5	3	6	8
HC93-1227	0	0	3	4	5
HC93-1329	0	6	3	4	6
HC93-1544	1	4	4	5	8
HC94-81PR	2	6	4	6	7
HC94-96PR	2	6	4	5	7
HC94-421	-1	5	3	3	6
HC95-24MB	0	1	3	5	5
U96-2208	-1	-1	0	2	2
Date Planted	05/06	05/15	05/19	06/11	05/06
Days to Mature	133	128	133	114	140

PRELIMINARY TEST IIIB, 1997

LODGING (score)

Strain	Mean 10 Tests	Fair- field IA	Stuart IA	Urbana IL	Lafay- ette IN	Man- hattan KS
IA2022 (II)	1.3	2.2	1.3	1.5	1.0	1.0
Iroquois (III)	1.5	2.0	1.4	1.8	1.0	1.0
Macon (L)	1.3	2.0	1.3	1.5	1.0	1.0
A96-591017	1.3	2.2	1.2	1.5	1.0	1.0
A96-591046	1.5	2.0	1.5	1.5	1.0	1.0
A96-591061	1.5	2.5	1.3	2.3	1.0	1.0
A96-591072	1.2	1.8	1.2	1.5	1.0	1.0
A96-597020	1.1	2.0	1.0	1.0	1.0	1.0
A96-691003	1.4	1.6	1.0	1.8	1.0	1.0
A96-691006	1.4	2.1	1.3	2.0	1.0	1.0
A96-692002	1.4	1.9	1.2	1.8	1.0	1.0
A96-692011	1.3	1.6	1.2	1.3	1.0	1.0
A96-692044	1.5	2.2	1.3	1.8	1.0	1.0
A96-692048	1.3	2.1	1.2	1.3	1.0	1.0
A96-692057	1.5	2.0	1.2	1.3	1.0	1.0
C1948	1.4	2.1	1.0	1.5	1.0	1.0
HS94-1697	1.5	2.3	1.3	2.0	1.0	1.0
HS95-4826	1.8	2.6	1.8	2.3	1.3	1.5
HS95-4830	1.4	2.2	1.3	1.5	1.0	1.0
HS95-4853	1.7	2.7	1.4	2.0	1.0	1.0
HS95-4860	1.5	2.5	1.6	2.0	1.0	1.5
HS95-4866	1.5	2.3	1.5	2.0	1.0	1.0
LS94-0451	1.7	2.5	1.3	2.3	1.0	1.0
LS94-0628	1.5	2.0	1.4	2.0	1.0	1.0
SS94-10130	1.8	1.9	1.9	2.3	1.0	1.0
SS94-10476	1.4	1.7	1.1	2.0	1.0	1.0
SS94-10696	1.4	1.9	1.3	2.3	1.0	1.0
SS94-13392	1.5	1.9	1.3	2.3	1.0	1.0
Charleston (dt1)	1.4	1.7	1.0	2.0	1.0	1.0
HC93-582	1.2	1.6	1.0	1.3	1.0	1.0
HC93-596	1.2	1.4	1.1	1.0	1.0	1.0
HC93-868	1.4	1.4	1.1	1.3	1.0	1.0
HC93-1227	1.3	1.6	1.1	1.5	1.0	1.0
HC93-1329	1.1	1.4	1.0	1.3	1.0	1.0
HC93-1544	1.2	1.4	1.0	1.3	1.0	1.0
HC94-81PR	1.3	1.8	1.1	1.3	1.0	1.0
HC94-96PR	1.3	1.5	1.3	1.0	1.0	1.0
HC94-421	1.4	1.9	1.1	1.3	1.0	1.0
HC95-24MB	1.4	1.9	1.1	1.5	1.0	1.0
U96-2208	1.2	1.3	1.1	1.3	1.0	1.0

PRELIMINARY TEST IIIB, 1997

Strain	LODGING (score)				
	Columbia MO	McCool Jct. NE	Tekamah NE	Hoyt- ville OH	So. Charles- ton OH
IA2022 (II)	1.0	1.0	2.0	1.3	1.0
Iroquois (III)	1.0	2.0	2.0	1.3	1.3
Macon (L)	1.0	1.0	2.0	1.4	1.0
A96-591017	1.0	1.0	1.0	1.4	1.3
A96-591046	1.0	1.5	2.0	1.2	1.8
A96-591061	1.0	1.5	1.5	1.4	1.5
A96-591072	1.0	1.5	1.0	1.4	1.0
A96-597020	1.0	1.0	1.0	1.4	1.0
A96-691003	1.0	2.0	1.0	1.3	1.8
A96-691006	1.0	1.5	2.0	1.4	1.0
A96-692002	1.0	1.5	2.0	1.3	1.0
A96-692011	1.0	1.5	1.5	1.4	1.0
A96-692044	1.0	1.0	2.5	1.5	1.3
A96-692048	1.0	1.0	2.0	1.4	1.0
A96-692057	1.0	2.0	2.5	1.4	1.3
C1948	1.0	1.0	2.5	1.5	1.5
HS94-1697	1.0	1.5	2.0	1.4	1.3
HS95-4826	1.0	2.0	2.0	1.6	2.0
HS95-4830	1.0	1.5	2.0	1.3	1.0
HS95-4853	1.0	2.0	2.0	1.5	2.0
HS95-4860	1.0	1.5	1.5	1.7	1.0
HS95-4866	1.0	1.5	2.0	1.6	1.5
LS94-0451	1.0	2.0	2.0	1.6	1.8
LS94-0628	1.0	1.5	2.0	1.4	1.3
SS94-10130	1.0	2.5	3.0	1.5	1.5
SS94-10476	1.0	1.5	2.0	1.5	1.0
SS94-10696	1.0	1.5	2.0	1.4	1.0
SS94-13392	1.0	1.0	2.0	1.5	1.5
Charleston (dt1)	1.0	1.5	2.0	1.6	1.5
HC93-582	1.0	1.5	1.5	1.3	1.0
HC93-596	1.0	1.5	2.0	1.3	1.0
HC93-868	1.0	1.5	2.0	1.6	1.8
HC93-1227	1.0	1.0	2.0	1.4	1.3
HC93-1329	1.0	1.0	1.0	1.4	1.0
HC93-1544	1.0	1.0	1.5	1.4	1.5
HC94-81PR	1.0	2.0	1.0	1.6	1.0
HC94-96PR	1.0	1.5	1.5	1.5	1.8
HC94-421	1.0	1.0	1.5	1.4	2.5
HC95-24MB	1.0	1.5	2.0	1.5	1.0
U96-2208	1.0	1.5	1.5	1.4	1.0

PRELIMINARY TEST IIIB, 1997

PLANT HEIGHT (inches)

Strain	Mean 10 Tests	Fair- field IA	Stuart IA	Urbana IL	Lafay- ette IN	Man- hattan KS
IA2022 (II)	33	38	30	35	33	36
Iroquois (III)	34	39	28	37	32	33
Macon (L)	33	39	27	37	29	35
A96-591017	29	34	24	32	28	29
A96-591046	33	40	30	34	30	38
A96-591061	31	37	27	33	30	31
A96-591072	29	35	24	33	31	31
A96-597020	28	33	24	30	26	27
A96-691003	32	40	25	37	29	30
A96-691006	33	40	25	35	31	33
A96-692002	35	40	27	35	34	42
A96-692011	33	40	25	38	31	32
A96-692044	32	40	28	32	31	31
A96-692048	31	38	27	34	29	30
A96-692057	31	36	27	37	31	29
C1948	30	31	28	34	27	30
HS94-1697	36	41	30	40	34	36
HS95-4826	44	49	36	45	43	48
HS95-4830	37	41	32	39	37	38
HS95-4853	39	45	35	37	39	40
HS95-4860	39	48	34	42	38	44
HS95-4866	38	44	32	38	37	39
LS94-0451	36	43	30	37	33	37
LS94-0628	37	41	31	40	34	42
SS94-10130	38	43	31	41	35	41
SS94-10476	34	40	28	34	33	31
SS94-10696	37	43	30	39	34	39
SS94-13392	36	41	32	40	32	36
Charleston (dt1)	25	25	23	30	22	27
HC93-582	21	23	22	25	15	21
HC93-596	23	23	24	26	17	25
HC93-868	23	23	23	22	20	23
HC93-1227	24	24	25	26	20	25
HC93-1329	24	26	23	25	21	24
HC93-1544	25	24	26	25	19	24
HC94-81PR	23	25	22	23	20	24
HC94-96PR	25	28	23	24	23	25
HC94-421	26	27	25	24	24	27
HC95-24MB	23	24	22	24	21	24
U96-2208	26	30	22	31	24	23

PRELIMINARY TEST IIIB, 1997

PLANT HEIGHT (inches)

Strain	Columbia MO	McCool Jct. NE	Tekamah NE	Hoyt- ville OH	So. Charles- ton OH
IA2022 (II)	24	37	39	26	33
Iroquois (III)	23	41	43	27	35
Macon (L)	25	36	44	27	32
A96-591017	22	28	37	26	28
A96-591046	23	36	41	27	33
A96-591061	23	33	39	29	32
A96-591072	19	29	37	25	29
A96-597020	19	31	31	28	32
A96-691003	21	35	37	31	35
A96-691006	22	38	41	31	32
A96-692002	25	42	45	29	34
A96-692011	24	36	41	27	34
A96-692044	24	36	40	28	32
A96-692048	24	33	38	26	33
A96-692057	19	35	36	29	33
C1948	22	32	37	32	30
HS94-1697	28	39	41	31	36
HS95-4826	31	50	60	42	38
HS95-4830	26	38	48	35	35
HS95-4853	30	43	47	35	41
HS95-4860	33	42	47	31	35
HS95-4866	31	41	45	37	36
LS94-0451	27	39	45	30	37
LS94-0628	26	42	45	33	36
SS94-10130	26	42	47	34	37
SS94-10476	22	40	41	36	35
SS94-10696	26	42	48	31	36
SS94-13392	22	41	46	33	38
Charleston (dt1)	14	26	30	25	26
HC93-582	14	23	25	19	20
HC93-596	14	24	27	22	25
HC93-868	17	24	27	25	25
HC93-1227	17	26	28	23	26
HC93-1329	18	25	28	26	26
HC93-1544	14	26	31	29	28
HC94-81PR	17	25	27	26	25
HC94-96PR	20	25	27	26	25
HC94-421	17	28	31	26	27
HC95-24MB	15	24	27	25	25
U96-2208	19	28	31	25	28

PRELIMINARY TEST IIIB, 1997

SEED QUALITY (score)

Strain	Mean 10 Tests	Fair- field IA	Stuart IA	Urbana IL	Lafay- ette IN	Man- hattan KS
IA2022 (II)	2.2	2.0	4.5	1.9	1.0	3.0
Iroquois (III)	2.0	1.5	4.0	1.4	1.0	3.0
Macon (L)	2.0	2.0	4.5	1.2	1.0	2.0
A96-591017	2.1	1.5	4.5	1.2	1.0	3.0
A96-591046	2.0	1.0	4.0	1.2	1.0	3.0
A96-591061	2.1	1.5	4.5	1.2	1.0	3.0
A96-591072	1.9	1.0	4.5	1.2	1.0	2.0
A96-597020	2.0	1.5	4.0	1.4	1.0	3.0
A96-691003	1.8	2.0	4.0	1.4	1.0	2.0
A96-691006	2.1	2.5	4.5	1.2	1.0	3.0
A96-692002	2.2	1.5	5.0	1.2	1.0	4.0
A96-692011	2.4	2.5	5.0	1.4	2.0	3.0
A96-692044	2.1	2.0	4.5	1.2	1.0	3.0
A96-692048	2.2	1.5	4.5	1.2	1.0	3.0
A96-692057	2.0	1.5	4.5	1.2	1.0	2.0
C1948	2.1	1.5	4.0	1.5	1.0	3.0
HS94-1697	2.0	2.0	4.5	1.2	1.0	3.0
HS95-4826	2.4	2.5	4.5	1.5	1.0	4.0
HS95-4830	2.3	1.5	4.5	1.4	1.0	4.0
HS95-4853	2.0	1.5	3.0	1.2	1.0	3.0
HS95-4860	1.9	1.5	4.0	1.2	1.0	3.0
HS95-4866	1.8	1.0	3.5	1.2	1.0	3.0
LS94-0451	1.8	1.0	4.5	1.4	1.0	2.0
LS94-0628	1.9	1.0	5.0	1.4	1.0	2.0
SS94-10130	2.0	1.5	4.0	1.9	1.0	2.0
SS94-10476	2.0	2.0	4.5	1.8	1.0	2.0
SS94-10696	1.9	1.0	4.0	1.5	1.0	2.0
SS94-13392	2.0	2.0	4.0	1.2	1.0	2.0
Charleston (dt1)	1.6	1.0	4.5	1.4	1.0	2.0
HC93-582	2.0	1.5	4.5	1.2	1.0	2.0
HC93-596	2.2	2.0	4.0	1.4	1.0	4.0
HC93-868	1.8	1.5	4.5	1.2	1.0	2.0
HC93-1227	1.7	1.5	4.0	1.4	1.0	2.0
HC93-1329	2.1	1.0	4.5	1.2	1.0	3.0
HC93-1544	2.0	1.5	4.5	1.7	1.0	3.0
HC94-81PR	1.9	1.5	4.5	1.7	1.0	3.0
HC94-96PR	1.8	1.5	4.5	1.2	1.0	2.0
HC94-421	1.8	1.5	4.0	1.4	1.0	2.0
HC95-24MB	1.6	1.5	4.0	1.2	1.0	2.0
U96-2208	2.2	1.5	4.5	1.2	1.0	3.0

PRELIMINARY TEST IIIB, 1997

Strain	SEED QUALITY (score)				
	Columbia MO	McCool Jct. NE	Tekamah NE	Hoyt- ville OH	So. Charles- ton OH
IA2022 (II)	1.0	2.0	2.0	2.5	2.5
Iroquois (III)	1.0	2.0	2.0	2.5	2.0
Macon (L)	1.0	2.0	1.5	2.5	1.8
A96-591017	1.0	1.5	1.5	2.5	2.8
A96-591046	2.0	1.0	2.0	2.5	2.5
A96-591061	1.0	2.0	1.5	2.5	3.0
A96-591072	1.0	2.0	1.0	2.5	2.5
A96-597020	1.0	1.5	2.0	2.5	2.0
A96-691003	1.0	2.0	1.5	1.5	2.0
A96-691006	1.0	2.0	1.0	2.5	2.0
A96-692002	1.0	2.0	1.5	2.5	2.0
A96-692011	2.0	2.0	2.0	2.5	1.8
A96-692044	1.0	2.0	2.0	2.5	2.0
A96-692048	1.0	2.0	2.0	2.5	2.8
A96-692057	1.0	2.0	2.0	2.5	2.0
C1948	1.0	2.0	2.0	2.5	2.5
HS94-1697	1.0	2.0	1.5	1.5	2.0
HS95-4826	2.0	2.0	1.0	2.5	2.5
HS95-4830	2.0	2.0	2.0	2.5	2.5
HS95-4853	2.0	2.0	2.0	2.5	2.0
HS95-4860	1.0	2.0	1.5	1.5	2.0
HS95-4866	1.0	1.5	1.0	2.5	2.0
LS94-0451	1.0	2.0	1.0	2.5	1.8
LS94-0628	1.0	2.0	1.5	2.5	2.0
SS94-10130	1.0	2.0	2.0	2.5	2.5
SS94-10476	1.0	2.0	1.5	1.5	2.5
SS94-10696	1.0	2.0	2.5	2.5	1.5
SS94-13392	1.0	2.0	2.0	2.5	2.0
Charleston (dt1)	1.0	1.0	1.0	1.5	1.5
HC93-582	2.0	1.5	1.5	2.5	2.0
HC93-596	2.0	1.5	1.5	2.5	2.5
HC93-868	1.0	1.0	2.0	1.5	2.0
HC93-1227	1.0	1.5	2.0	1.5	1.5
HC93-1329	2.0	1.5	1.5	2.5	2.5
HC93-1544	1.0	2.0	1.5	1.5	2.0
HC94-81PR	1.0	1.0	2.0	1.5	2.0
HC94-96PR	1.0	1.5	1.5	1.5	1.8
HC94-421	1.0	1.0	2.0	1.5	2.5
HC95-24MB	1.0	1.0	1.5	1.5	1.5
U96-2208	2.0	2.0	2.0	2.5	2.5

PRELIMINARY TEST IIIB, 1997

SEED SIZE (g/100)

Strain	Mean 10 Tests	Fair- field IA	Stuart IA	Urbana IL	Lafay- ette IN	Man- hattan KS
IA2022 (II)	15.6	15.0	16.3	14.0	14.4	14.8
Iroquois (III)	16.1	15.4	16.0	15.1	13.7	18.3
Macon (L)	17.5	17.8	16.3	16.9	15.4	18.4
A96-591017	19.4	19.3	17.6	18.5	17.9	19.7
A96-591046	15.8	14.0	16.4	14.9	14.7	19.1
A96-591061	19.4	18.9	19.4	18.5	17.5	18.7
A96-591072	18.5	18.1	18.4	18.8	17.1	17.5
A96-597020	16.6	16.0	16.8	15.7	16.5	15.7
A96-691003	16.7	16.5	16.1	16.5	15.0	16.7
A96-691006	17.2	16.3	17.6	16.1	15.6	17.3
A96-692002	16.6	15.8	16.4	17.3	15.0	17.5
A96-692011	16.7	16.9	16.4	17.3	15.4	16.2
A96-692044	16.9	15.6	16.6	16.4	16.0	16.9
A96-692048	17.5	16.4	17.1	17.1	16.7	17.7
A96-692057	15.8	15.9	16.1	15.1	14.1	17.2
C1948	16.1	15.8	16.1	15.5	14.5	15.4
HS94-1697	16.1	15.1	16.2	14.6	15.4	16.2
HS95-4826	17.3	16.9	17.3	15.6	16.1	17.0
HS95-4830	17.3	15.9	17.4	16.1	15.2	18.0
HS95-4853	16.7	16.2	16.5	16.5	15.4	15.8
HS95-4860	17.8	17.3	17.7	17.3	17.9	16.0
HS95-4866	16.2	15.9	15.1	15.7	15.0	15.4
LS94-0451	14.9	15.6	14.1	15.0	13.7	15.2
LS94-0628	14.7	14.9	14.2	13.8	12.8	14.9
SS94-10130	15.5	16.2	15.5	15.2	13.9	16.3
SS94-10476	16.6	16.8	16.4	17.2	14.0	16.3
SS94-10696	17.6	18.6	17.3	17.5	16.0	18.3
SS94-13392	14.9	15.9	15.5	13.7	13.5	15.1
Charleston (dt1)	15.7	15.0	15.6	16.5	14.6	12.8
HC93-582	15.4	14.6	14.3	14.5	14.1	17.6
HC93-596	13.6	12.5	13.8	12.8	12.6	14.1
HC93-868	17.0	15.8	16.8	16.8	15.7	16.2
HC93-1227	15.1	14.0	15.1	15.7	13.7	15.3
HC93-1329	16.5	15.9	15.7	16.2	15.7	16.2
HC93-1544	15.2	14.4	15.4	16.3	13.9	13.2
HC94-81PR	17.2	16.0	16.6	19.7	14.6	17.7
HC94-96PR	16.8	15.5	16.5	15.9	15.0	16.8
HC94-421	17.3	16.3	17.1	18.7	16.3	16.5
HC95-24MB	14.2	14.4	13.1	15.5	12.4	15.4
U96-2208	18.9	17.4	18.5	18.1	16.9	20.8

PRELIMINARY TEST IIIB, 1997

Strain	SEED SIZE (g/100)				
	Columbia MO	McCool Jct. NE	Tekamah NE	Hoyt- ville OH	So. Charles- ton OH
IA2022 (II)	18.9	16.4	15.7	15.3	15.4
Iroquois (III)	17.8	15.7	16.1	16.5	16.8
Macon (L)	16.6	17.4	18.4	18.3	19.3
A96-591017	16.7	20.9	20.6	21.8	20.7
A96-591046	15.2	16.6	15.4	16.1	15.5
A96-591061	18.2	20.2	19.9	21.0	21.4
A96-591072	16.4	20.5	19.1	19.7	19.2
A96-597020	14.7	18.5	16.9	17.8	17.3
A96-691003	16.8	17.0	17.3	17.7	17.7
A96-691006	17.0	18.0	18.0	17.6	18.4
A96-692002	17.0	16.3	17.3	16.9	16.4
A96-692011	16.7	17.1	17.3	16.9	17.2
A96-692044	17.2	17.5	17.7	17.5	17.7
A96-692048	16.4	18.5	18.2	18.6	17.8
A96-692057	15.5	16.6	16.0	16.5	15.1
C1948	15.4	15.7	16.9	17.1	18.2
HS94-1697	18.7	15.4	16.7	16.4	15.9
HS95-4826	17.2	17.8	17.9	18.4	19.2
HS95-4830	17.4	18.5	19.0	18.3	17.6
HS95-4853	17.0	17.6	17.2	17.6	17.6
HS95-4860	17.6	18.0	19.2	18.0	18.6
HS95-4866	17.0	16.8	17.7	16.7	17.0
LS94-0451	14.3	14.9	15.7	15.1	15.8
LS94-0628	15.3	15.1	15.2	15.0	15.8
SS94-10130	15.4	15.6	15.2	15.2	16.0
SS94-10476	16.9	16.3	17.2	17.6	17.6
SS94-10696	15.8	17.6	18.0	18.2	18.5
SS94-13392	14.5	14.6	15.4	15.0	15.7
Charleston (dt1)	15.2	17.4	17.4	16.1	16.4
HC93-582	16.2	16.9	15.2	16.2	14.6
HC93-596	13.7	13.5	15.2	14.0	13.5
HC93-868	15.3	17.2	18.2	18.8	18.9
HC93-1227	14.7	15.7	16.5	15.4	15.0
HC93-1329	16.0	17.3	17.9	16.4	17.8
HC93-1544	13.1	16.6	16.7	16.0	16.1
HC94-81PR	17.6	17.2	17.7	16.5	18.0
HC94-96PR	18.7	17.2	17.9	17.0	17.4
HC94-421	17.3	17.4	17.6	17.7	18.3
HC95-24MB	12.8	14.6	15.6	15.1	13.4
U96-2208	20.0	18.6	17.9	21.4	19.0

PRELIMINARY TEST IIIB, 1997

Strain	PROTEIN (%)					
	Mean 5 Tests	Fairfield IA	Urbana IL	Lafayette IN	Lincoln NE	Hoytville OH
IA2022 (II)	40.5	41.0	38.4	40.2	41.3	41.6
Iroquois (III)	40.7	41.3	39.8	40.0	41.1	41.4
Macon (L)	40.9	40.4	40.7	41.0	41.5	41.1
A96-591017	40.7	40.9	39.9	40.5	40.1	42.3
A96-591046	40.6	41.5	40.3	39.1	40.3	41.9
A96-591061	40.4	41.3	39.5	39.8	40.3	41.3
A96-591072	41.8	41.8	41.4	41.5	41.3	43.0
A96-597020	41.1	41.7	41.1	40.9	40.7	41.2
A96-691003	39.1	38.6	39.1	38.1	39.5	40.3
A96-691006	41.0	42.0	40.5	40.2	41.9	40.4
A96-692002	40.9	40.5	40.9	40.3	40.9	41.8
A96-692011	41.4	41.1	40.9	40.8	42.4	41.8
A96-692044	39.1	39.7	39.1	38.0	38.7	39.8
A96-692048	41.2	42.0	40.8	40.3	41.1	41.8
A96-692057	40.7	41.2	40.0	40.9	40.6	41.0
C1948	41.9	42.6	42.1	41.4	42.1	41.5
HS94-1697	41.3	41.1	40.7	40.8	41.4	42.6
HS95-4826	40.4	40.4	40.1	39.4	40.1	42.2
HS95-4830	39.9	40.1	38.6	39.5	39.7	41.5
HS95-4853	41.0	40.9	40.7	40.7	40.2	42.4
HS95-4860	41.5	41.0	41.2	41.6	41.3	42.4
HS95-4866	41.2	40.4	41.3	40.6	40.7	43.0
LS94-0451	41.5	40.9	41.8	40.5	42.9	41.5
LS94-0628	40.9	41.0	40.4	41.1	40.8	41.4
SS94-10130	39.9	39.8	40.3	39.4	39.7	40.3
SS94-10476	41.8	41.1	41.6	42.5	41.5	42.2
SS94-10696	40.2	39.8	40.4	39.6	40.0	41.2
SS94-13392	40.9	40.7	40.4	40.5	41.6	41.1
Charleston (dt1)	41.0	40.4	40.2	41.3	41.3	41.6
HC93-582	38.4	38.1	36.6	39.1	38.1	40.3
HC93-596	39.0	39.2	40.8	38.4	37.2	39.3
HC93-868	40.2	39.3	41.2	39.8	39.5	41.4
HC93-1227	40.9	40.7	41.5	40.3	40.6	41.3
HC93-1329	41.3	40.9	40.5	41.6	41.0	42.4
HC93-1544	40.6	40.3	40.9	40.4	40.4	41.2
HC94-81PR	40.0	39.6	41.5	39.5	39.2	40.3
HC94-96PR	39.0	38.5	37.9	39.3	38.3	40.8
HC94-421	40.1	39.0	41.9	40.1	39.0	40.7
HC95-24MB	41.2	40.8	41.1	41.3	41.3	41.5
U96-2208	38.9	38.7	38.2	38.0	39.4	40.4

PRELIMINARY TEST IIIB, 1997

Strain	OIL (%)					
	Mean 5 Tests	Fairfield IA	Urbana IL	Lafayette IN	Lincoln NE	Hoytville OH
IA2022 (II)	20.3	20.3	21.9	20.3	19.5	19.4
Iroquois (III)	20.1	19.5	21.3	20.8	20.0	18.9
Macon (L)	20.0	19.7	21.1	20.0	20.1	18.9
A96-591017	20.1	20.2	20.6	20.8	20.4	18.5
A96-591046	20.3	20.1	20.9	20.9	20.7	18.8
A96-591061	20.0	19.4	21.1	20.7	20.2	18.8
A96-591072	19.3	19.1	20.2	20.3	18.9	17.8
A96-597020	20.4	20.4	21.0	21.3	20.2	19.1
A96-691003	20.8	20.7	21.4	21.5	20.7	19.9
A96-691006	20.3	19.4	21.1	20.8	20.9	19.3
A96-692002	20.4	20.5	20.8	20.7	19.2	20.6
A96-692011	20.5	20.4	21.4	20.7	20.8	19.2
A96-692044	20.7	20.0	21.3	21.3	21.1	19.6
A96-692048	19.7	19.6	20.4	20.1	19.3	18.9
A96-692057	20.3	20.4	20.9	20.7	20.1	19.2
C1948	20.1	20.3	20.6	20.4	19.9	19.3
HS94-1697	20.5	20.7	21.3	21.4	20.3	18.8
HS95-4826	20.4	20.6	21.4	21.1	20.2	18.9
HS95-4830	21.2	21.2	22.7	21.9	21.3	19.1
HS95-4853	21.1	21.4	22.3	21.5	21.3	19.2
HS95-4860	21.0	21.3	21.7	21.4	20.9	19.6
HS95-4866	20.7	21.2	21.8	21.2	20.8	18.6
LS94-0451	19.9	20.2	20.4	20.5	19.5	18.7
LS94-0628	19.7	19.9	20.6	19.9	19.5	18.5
SS94-10130	20.0	20.6	20.4	20.4	19.9	18.6
SS94-10476	20.0	19.9	21.0	19.9	19.0	20.2
SS94-10696	20.5	21.1	21.3	20.9	20.1	19.0
SS94-13392	19.6	20.3	20.6	20.2	18.6	18.4
Charleston (dt1)	20.1	20.1	20.8	20.6	19.5	19.6
HC93-582	20.4	19.9	22.0	20.3	20.4	19.4
HC93-596	20.8	20.2	22.3	21.2	20.9	19.6
HC93-868	21.3	21.4	23.2	21.6	21.1	19.3
HC93-1227	19.9	19.8	21.1	20.3	19.7	18.8
HC93-1329	19.7	20.0	20.3	20.3	19.4	18.3
HC93-1544	19.6	19.6	20.2	19.7	19.5	18.9
HC94-81PR	20.4	20.5	21.1	20.8	20.2	19.2
HC94-96PR	21.3	21.3	22.3	21.5	21.1	20.1
HC94-421	20.9	20.9	22.0	21.5	20.8	19.3
HC95-24MB	19.4	19.1	20.5	19.6	19.4	18.5
U96-2208	21.1	21.3	22.0	22.0	20.5	19.8

Uniform Test IV, 1997

Strain	Parentage	Previous Testing	Generation Compositied	Unique Traits
1. KS4694 (L)	Sherman x Toano	6	F5	
2. Macon (III)	Sherman x Resnik	1	F5	
3. Mustang (SCN)	Fayette x Pyramid	-	F5	SCN
4. Ripley (dtl)	Hodgson x V68-1034	5	F5	dtl
5. Stressland (IV)	HC80-1946 x Asgrow A3127	4	F5	
6. HC87-5891	HC78-5891 x HC78-676	PT IVB	F5	dtl
7. HC90-196	Sprite 87 x HC80-1756	2	F5	dtl
8. HC90-2517	Sprite 87 x Resnik	PT IVA	F5	Dtl
9. HC91-1662	Hutcheson x Pixie BC	PT IVB	F5	dtl
10. HC91-1770	Hutcheson x HC78-676BC	1	F5	dtl
11. HC92-1626	HC83-4532 x Flyer	PT IVA	F5	Dtl
12. HS93-4118	IA2007 x Dairyland DSR 304	1	F5	Rps1-c
13. K1353	Asgrow A4595 x R85-3280	PT IVA	F5	
14. LN92-10725	Jack x Resnik	SCN IV	F5	SCN
15. LN93-11632	A86-301024 x Asgrow A3733	PT IIIB	F5	
16. LN93-11945	LN84-7577 x Asgrow A3733	PT IIIB	F5	
17. LN94-10477	Jack x Hartwig	SCN PIV	F5	SCN
18. LN94-10527	Jack x Hartwig	SCN PIV	F5	SCN
19. LS92-3660	Resnik x Asgrow A5474	1	F6	SCN 3
20. LS92-4173	Flyer x Pyramid	1	F6	SCN 3
21. LS93-0232	Asgrow A3935 x Pioneer 9402	PT IVB	F6	SCN
22. LS93-0292	Asgrow A3935 x Pioneer 9402	SCN IV		SCN
23. LS93-0375	Asgrow A3935 x Pioneer 9402	PT IVB	F6	SCN
24. Md92-5850	Hamilton x Bass	1	F5	
25. Md93-5010	Md87-5602 x LS85-5031	PT IVA	F5	
26. SS91-6611	Pioneer P9391 x Asgrow A3935	PT IVB	F5	
27. SS91-7138	Pioneer P9442 x Pioneer 9461	2	F5	
28. SS92-9047	C1747 x A86-303014	PT IIIB	F5	
29. SS92-9082	C1747 x K1148	PT IVB	F5	
30. SS92-9933	Burlison x A86-204022	PT IVB	F5	
31. V92-0847	Asgrow A4595 x Avery	PT IVB	F5	

UNIFORM TEST IV, 1997

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	<u>Emerg.</u>	<u>Shattering</u>	<u>PR</u>	<u>Hard Seed</u>	<u>PS</u>	<u>P&SB</u>
		Score Ames	Score Man- hattan	Laf. Race 7	Lafayette %	a %	n %
KS4694 (L)	WGBrSYBfepI	2.0	2.0	S	0	4	0
Macon (III)	WTTnSYBlEpI	1.0	2.0	S	0	28	0
Mustang (SCN)	WGTnSYBrEpI	5.0	2.0	S	0	2	4
Ripley (dt1)	PGTnIYBfEpI	1.0	2.0	S	0	2	0
Stressland (IV)	PTTnDYBlHI	1.0	2.0	S	0	4	0
HC87-5891	PTBrIYBlepD	2.0	2.0	S	0	11	0
HC90-196	WBrDYBlepD	2.0	2.0	R	0	3	2
HC90-2517	P+WBrSYBlepI	1.0	2.0	R	0	4	0
HC91-1662	PTTnDYHepD	1.0	2.0	S	0	2	0
HC91-1770	WTTnDYBrepD	1.0	2.0	S	0	0	2
HC92-1626	WTTnSYBlEpI	1.0	2.0	S	0	0	2
HS93-4118	WGBrDYDibepI	1.0	2.0	R	0	0	0
K1353	P+WTTnDYLBlepI	1.0	2.0	R	0	0	2
LN92-10725	WGBrDYBfepI	5.0	2.0	H	0	11	2
LN93-11632	PGBrSYIbepI	2.0	2.0	S	0	15	2
LN93-11945	PGBrSYIbepI	3.0	2.0	S	0	5	0
LN94-10477	WGBrDYBfHI	3.0	2.0	R	0	14	6
LN94-10527	WGBrDYBfHI	5.0	2.0	S	12	10	4
LS92-3660	PTBrDYBlEpI	1.0	2.0	R	0	2	0
LS92-4173	PGTnDYIbEpI	1.0	2.0	S	0	0	2
LS93-0232	PTBrDYBlEpI	1.0	2.0	S	0	2	2
LS93-0292	PTTnSYLBlepI	1.0	2.0	R	0	8	2
LS93-0375	PTBrDYBlEpI	2.0	2.0	S	0	2	4
Md92-5850	PGTnDYHepI	1.0	2.0	S	0	18	6
Md93-5010	WTTnIYBlepI	1.0	2.0	R	0	0	0
SS91-6611	PTBrDYBlEpI	2.0	2.0	S	0	2	10
SS91-7138	WBrSYBlEpI	2.0	2.0	S	0	1	0
SS92-9047	WTTnSYBlEpI	2.0	2.0	S	0	17	0
SS92-9082	WTTnDYBlEpI	1.0	2.0	R	0	4	0
SS92-9933	WGBrIYBfepI	1.0	2.0	R	4	12	0
V92-0847	WTTnDYLBlepI	2.0	2.0	S	0	15	0

UNIFORM TEST IV, 1997

SDS DATA

Strain	R6DI	<u>SDS Data</u> Ullin		DX Rank
		R6DS	R6DX	
KS4694 (L)	15.0	1.7	2.2	9
Macon (III)	38.0	1.2	4.9	14
Mustang (SCN)	31.0	1.6	5.8	16
Ripley (dt1)	-5.0	0.9	-1.0	2
Stressland (IV)	88.0	1.6	16.0	31
HC87-5891	70.0	1.4	11.3	25
HC90-196	41.0	1.2	6.3	18
HC90-2517	55.0	1.4	8.5	21
HC91-1662	42.0	1.3	6.2	17
HC91-1770	50.0	1.4	8.4	20
HC92-1626	66.0	1.8	13.2	27
HS93-4118	5.0	1.2	0.7	6
K1353	74.0	1.5	13.0	26
LN92-10725	-1.0	1.1	-0.9	3
LN93-11632	86.0	1.5	14.3	28
LN93-11945	59.0	1.4	9.8	23
LN94-10477	0.0	1.0	0.0	4
LN94-10527	3.0	1.2	0.4	5
LS92-3660	23.0	1.2	2.8	11
LS92-4173	11.0	1.2	1.9	8
LS93-0232	7.0	1.1	1.5	7
LS93-0292	-9.0	1.0	-1.7	1
LS93-0375	20.0	1.1	3.7	13
Md92-5850	36.0	1.3	5.4	15
Md93-5010	22.0	1.2	3.0	12
SS91-6611	47.0	1.4	8.3	19
SS91-7138	62.0	1.5	10.4	24
SS92-9047	12.0	1.2	2.2	10
SS92-9082	48.0	1.3	8.9	22
SS92-9933	79.0	1.7	15.2	26
V92-0847	86.0	1.6	15.3	30

UNIFORM TEST IV, 1997

REGIONAL SUMMARY

No. of Tests Strain	Yield	Rank	Maturity	Lodging	Plant Height	Seed Quality	Seed Size	<u>Composition</u>	
	16 bu/a	16 No.	15 Date	17 Score	17 In.	16 Score	15 g/100	Protein 5 %	Oil 5 %
KS4694 (L)	54.3	13	5.5	1.3	34	1.4	16.3	40.6	20.0
Macon (III)	56.2	5	-3.4	1.2	30	1.7	17.6	40.8	20.4
Mustang (SCN)	54.3	10	1.3	1.3	35	1.6	14.7	41.2	19.5
Ripley (dt1)	49.8	31	-0.5	1.2	22	1.3	14.1	40.8	19.8
Stressland (IV)	55.1	10	9/28	1.5	36	1.5	13.8	42.9	19.6
HC87-5891	51.5	29	-1.1	1.2	25	1.9	18.8	41.7	20.8
HC90-196	52.8	28	-1.1	1.2	22	1.7	16.5	39.2	21.6
HC90-2517	52.9	23	-3.9	1.6	33	1.6	16.0	40.8	21.0
HC91-1662	52.8	25	-1.3	1.2	22	1.5	13.8	40.8	20.4
HC91-1770	52.9	23	-0.9	1.1	21	1.4	13.6	41.3	19.9
HC92-1626	52.7	21	-3.1	1.4	30	1.6	15.1	41.0	20.5
HS93-4118	58.3	1	-2.0	1.1	29	1.8	15.9	40.0	19.7
K1353	54.6	7	1.1	1.4	34	1.6	15.7	40.6	19.4
LN92-10725	56.7	2	-0.5	1.6	36	1.8	13.4	42.2	19.7
LN93-11632	55.8	6	-3.1	1.2	30	2.0	17.4	40.9	20.0
LN93-11945	56.7	3	-2.6	1.2	30	1.8	19.4	43.0	20.0
LN94-10477	52.4	25	0.3	2.1	39	2.1	14.8	39.6	19.9
LN94-10527	54.3	14	2.2	1.8	37	1.6	13.4	39.8	20.0
LS92-3660	51.0	30	-1.8	1.8	37	2.0	14.8	42.8	19.1
LS92-4173	53.7	19	3.9	1.5	34	1.6	14.5	39.7	19.5
LS93-0232	52.6	22	1.3	1.3	31	1.6	16.9	41.0	19.9
LS93-0292	52.6	27	0.3	1.4	35	1.7	15.7	41.7	19.6
LS93-0375	54.0	16	0.3	1.1	31	1.6	17.2	42.1	19.5
Md92-5850	54.4	10	-2.6	1.3	31	1.7	14.7	40.0	21.4
Md93-5010	53.7	18	2.1	1.8	32	1.4	14.7	41.8	19.0
SS91-6611	54.9	9	0.4	1.3	33	1.8	17.1	42.3	19.9
SS91-7138	56.2	4	1.7	1.3	32	1.4	14.6	40.9	20.3
SS92-9047	53.9	14	-2.5	1.1	30	1.9	17.9	41.6	20.2
SS92-9082	54.8	8	1.3	1.2	31	1.7	15.9	42.0	20.2
SS92-9933	52.9	19	4.2	1.3	32	1.8	17.7	41.2	20.0
V92-0847	53.6	17	-0.4	1.1	32	1.6	16.1	41.5	20.2

134.7 Days After Planting

UNIFORM TEST IV, 1997

1996-1997 2-YEAR MEAN

No. of Tests Strain	Yield	Rank	Maturity	Lodging	Plant Height	Seed Quality	Seed Size	Composition	
	31 bu/a	31 No.	31 Date	34 Score	34 In.	32 Score	31 g/100	Protein 10 %	Oil 10 %
KS4694 (L)	52.6	5	5.4	1.5	33	1.4	16.4	41.0	20.2
Macon (III)	52.7	4	-4.4	1.2	29	1.6	16.9	41.0	20.9
Ripley (dt1)	46.3	11	-0.8	1.2	21	1.3	13.5	40.6	20.3
Stressland (IV)	54.5	3	10/0.5	1.7	36	1.5	13.7	43.2	20.0
HC90-196	51.9	7	-2.2	1.3	22	1.6	16.3	39.7	21.9
HC91-1770	51.4	8	-1.2	1.2	21	1.5	13.5	41.2	20.3
HS93-4118	55.4	1	-1.9	1.3	29	1.7	15.8	40.0	20.2
LS92-3660	50.0	10	-1.7	2.1	37	1.8	15.0	43.0	19.4
LS92-4173	50.4	9	4.3	1.7	34	1.5	14.7	40.1	19.7
Md92-5850	52.2	6	-2.7	1.4	31	1.6	14.3	40.3	21.8
SS91-7138	54.7	2	0.8	1.5	32	1.4	14.6	41.0	20.8

128.2 Days After Planting

1995-1997 3-YEAR MEAN

No. of Tests Strain	46	46	46	51	51	48	47	15	15
KS4694 (L)	49.5	3	5.3	1.5	33	1.5	15.4	41.1	20.1
Ripley (dt1)	44.3	5	-1.2	1.2	21	1.4	12.7	41.1	20.3
Stressland (IV)	51.4	1	9/29.3	1.7	36	1.4	13.1	43.5	20.1
HC90-196	48.9	4	-2.5	1.2	23	1.4	15.2	40.4	21.5
SS91-7138	51.4	1	1.3	1.4	33	1.5	14.1	41.5	20.6

125.0 Days After Planting

UNIFORM TEST IV, 1997

YIELD (bu/a)

Strain	Mean 16 Tests	George- town DE	Nash- ville IL	Newton IL	Ridg- way IL	Ullin IL	Urbana IL	Lafay- ette IN
KS4694 (L)	54.3	80.6	46.7	45.6	57.1	47.3	59.1	48.9
Macon (III)	56.2	69.0	47.7	52.8	51.2	44.8	63.1	52.6
Mustang (SCN)	54.3	76.6	48.3	56.8	44.1	47.1	59.7	52.0
Ripley (dt1)	49.8	64.4	42.1	42.9	53.0	31.6	56.3	46.1
Stressland (IV)	55.1	80.5	49.8	47.2	51.6	50.7	60.6	53.2
HC87-5891	51.5	66.7	46.8	48.5	51.5	42.5	59.4	43.8
HC90-196	52.8	59.8	39.9	49.8	55.1	35.5	67.9	46.8
HC90-2517	52.9	66.5	45.0	46.2	48.9	42.6	60.1	53.3
HC91-1662	52.8	69.4	37.5	43.1	53.1	39.5	67.3	55.9
HC91-1770	52.9	72.2	44.9	48.8	54.1	37.8	68.2	47.1
HC92-1626	52.7	64.0	43.7	47.9	46.9	42.2	60.6	52.5
HS93-4118	58.3	78.5	45.3	50.7	58.2	51.4	70.5	52.6
K1353	54.6	73.0	48.0	48.3	57.5	49.9	55.9	51.0
LN92-10725	56.7	77.8	52.7	52.9	54.9	55.8	58.9	53.6
LN93-11632	55.8	72.3	44.3	53.1	47.9	46.5	64.2	58.5
LN93-11945	56.7	69.5	47.6	54.9	52.7	43.9	63.7	57.4
LN94-10477	52.4	68.7	50.0	52.1	45.1	40.1	54.4	48.8
LN94-10527	54.3	74.6	53.1	54.8	49.0	50.7	53.0	49.4
LS92-3660	51.0	60.1	46.3	51.5	53.6	38.5	57.7	45.3
LS92-4173	53.7	76.4	48.5	52.0	50.6	45.1	56.0	45.6
LS93-0232	52.6	65.7	42.3	53.7	51.6	41.1	62.4	52.0
LS93-0292	52.6	66.7	41.1	52.8	57.8	35.4	60.6	54.2
LS93-0375	55.8 54.0	67.4	46.5	57.9	53.4	45.2	68.0	54.3
Md92-5850	54.4	67.4	42.5	49.7	50.6	43.5	58.6	48.0
Md93-5010	53.7	68.1	52.1	51.8	50.7	50.9	53.7	48.1
SS91-6611	54.9	70.0	44.4	48.2	53.2	47.7	62.3	48.7
SS91-7138	56.2	76.7	44.7	49.3	56.0	49.3	66.2	51.6
SS92-9047	53.9	68.4	41.3	50.4	51.4	41.5	62.1	52.6
SS92-9082	54.8	65.0	39.8	49.5	51.5	46.2	66.2	53.1
SS92-9933	52.9	81.1	49.5	42.3	47.7	36.9	62.8	42.6
V92-0847	53.6	68.8	45.3	46.0	53.1	43.2	57.8	52.5
C.V. (%)		7.9	10.1	6.3	9.6	13.3	5.4	7.4
L.S.D. (5%)		9.1	7.6	5.2	8.1	9.6	5.4	6.0
Row Sp. (In.)		15	30	30	30	30	30	24
Rows/Plot		5	4	4	4	4	4	4
Reps		3	3	3	3	3	3	3

UNIFORM TEST IV, 1997

YIELD (bu/a)

Strain	Manhat- tan KS	Ottawa KS	Topeka KS	Lexing- ton KY	Queens- town MD	Colum- bia MO	Portage ville MO
KS4694 (L)	63.1	45.2	55.3	49.1	66.3	46.0	48.8
Macon (III)	61.8	47.9	67.6	63.5	56.0	44.5	51.1
Mustang (SCN)	52.9	43.8	73.5	53.6	56.9	47.4	47.3
Ripley (dt1)	58.1	41.9	64.0	50.3	57.6	42.1	32.8
Stressland (IV)	59.9	45.1	61.6	52.6	55.8	46.6	50.9
HC87-5891	51.0	44.2	62.9	53.6	59.3	33.1	33.3
HC90-196	60.2	45.3	71.8	52.5	55.0	40.1	33.9
HC90-2517	63.2	45.0	70.9	51.7	55.5	42.9	36.4
HC91-1662	58.7	41.9	66.6	61.6	61.6	38.6	29.5
HC91-1770	57.8	41.4	73.3	59.0	58.5	40.9	36.1
HC92-1626	64.3	45.4	61.7	51.2	56.5	45.3	45.7
HS93-4118	64.7	46.8	76.4	57.2	62.2	44.2	49.8
K1353	57.5	43.3	58.9	56.9	57.5	47.1	45.3
LN92-10725	62.7	42.6	65.2	52.1	56.4	49.4	51.2
LN93-11632	60.6	44.7	65.3	58.6	56.6	43.1	49.4
LN93-11945	61.1	52.5	68.8	59.9	59.1	45.8	46.8
LN94-10477	57.1	43.6	60.3	57.2	52.4	43.1	47.4
LN94-10527	56.6	46.4	66.6	54.3	56.5	47.9	46.1
LS92-3660	58.8	44.2	57.5	51.1	52.0	44.6	43.1
LS92-4173	58.9	43.2	66.0	51.2	56.7	48.3	47.5
LS93-0232	54.8	42.6	56.1	54.4	58.3	40.7	47.3
LS93-0292	50.9	45.2	55.7	49.2	56.6	48.8	46.9
LS93-0375	57.4	44.5	66.7	54.7	58.2	47.0	49.6
Md92-5850	66.4	42.5	82.4	58.7	57.3	43.5	50.5
Md93-5010	56.8	44.3	58.7	57.8	54.3	47.8	49.1
SS91-6611	59.9	43.7	69.7	55.7	59.8	48.7	47.7
SS91-7138	65.9	46.3	72.4	53.9	61.0	40.1	48.0
SS92-9047	61.2	45.7	67.1	52.6	60.5	42.0	40.2
SS92-9082	61.0	46.4	66.6	58.4	60.4	44.9	42.6
SS92-9933	60.1	44.5	63.3	46.7	60.7	40.7	44.2
V92-0847	62.9	44.3	64.3	52.2	60.2	38.2	42.3
C.V. (%)	4.5	5.6	9.2	8.7	6.4	9.0	8.4
L.S.D. (5%)	4.4	4.1	9.8	6.5	6.0	6.5	6.1
Row Sp. (In.)	30	30	30	30	30	30	30
Rows/Plot	4	4	4	4	4	4	4
Reps	3	3	3	3	3	3	3

UNIFORM TEST IV, 1997

YIELD (bu/a)

Strain	YIELD (bu/a)		
	Adelphia* NJ	Mt.Orab OH	South Charleston OH
KS4694 (L)	39.3	51.7	58.0
Macon (III)	38.2	53.8	71.1
Mustang (SCN)	41.9	47.6	61.2
Ripley (dtl)	32.7	49.5	63.9
Stressland (IV)	29.2	49.9	65.2
HC87-5891	29.2	58.1	68.8
HC90-196	33.1	60.1	70.3
HC90-2517	35.2	49.2	69.2
HC91-1662	36.1	48.0	72.7
HC91-1770	35.9	36.9	70.0
HC92-1626	41.4	45.9	69.7
HS93-4118	39.1	47.7	75.9
K1353	44.4	55.9	67.2
LN92-10725	40.9	51.7	69.8
LN93-11632	39.3	55.7	71.7
LN93-11945	38.6	50.8	73.2
LN94-10477	42.6	51.2	67.3
LN94-10527	33.8	47.3	62.4
LS92-3660	35.6	50.9	60.9
LS92-4173	32.0	51.9	60.7
LS93-0232	43.0	50.5	67.6
LS93-0292	37.3	53.3	65.6
LS93-0375	34.7	53.3	70.2
Md92-5850	41.6	37.3	71.0
Md93-5010	34.7	50.8	64.9
SS91-6611	33.1	51.0	68.4
SS91-7138	38.7	50.5	67.2
SS92-9047	39.8	51.2	74.5
SS92-9082	39.8	53.4	71.2
SS92-9933	45.5	52.9	69.8
V92-0847	39.1	52.5	74.6
C.V. (%)	20.1	10.2	7.2
L.S.D. (5%)	12.2	8.4	8.1
Row Sp. (In.)	30	15	8
Rows/Plot	4	6	8
Reps	3	3	3

* Data not included in the mean.

UNIFORM TEST IV, 1997

YIELD RANK

Strain	Yield Rank	George-town DE	Nash-ville IL	Newton IL	Ridg-way IL	Ullin IL	Urbana IL	Lafay-ette IN
KS4694 (L)	13	2	13	28	4	9	21	20
Macon (III)	5	16	10	8	21	15	10	10
Mustang (SCN)	10	7	8	2	31	10	19	15
Ripley (dt1)	31	28	26	30	14	31	26	27
Stressland (IV)	10	3	5	25	16	5	16	8
HC87-5891	29	23	12	21	18	20	20	30
HC90-196	28	31	29	16	6	29	4	26
HC90-2517	23	25	18	26	26	19	18	7
HC91-1662	25	15	31	29	12	25	5	3
HC91-1770	23	12	19	20	8	27	2	25
HC92-1626	21	29	23	24	29	21	15	13
HS93-4118	1	4	17	14	1	2	1	10
K1353	7	10	9	22	3	6	28	18
LN92-10725	2	5	2	7	7	1	22	6
LN93-11632	6	11	22	6	27	11	8	1
LN93-11945	3	14	11	3	15	16	9	2
LN94-10477	25	18	4	10	30	24	29	21
LN94-10527	14	9	1	4	25	4	31	19
LS92-3660	30	30	15	13	9	26	25	29
LS92-4173	19	8	7	11	23	14	27	28
LS93-0232	22	26	25	5	16	23	12	15
LS93-0292	27	24	28	8	2	30	17	5
LS93-0375	16	21	14	1	10	13	3	4
Md92-5850	10	22	24	17	23	17	23	24
Md93-5010	18	20	3	12	22	3	30	23
SS91-6611	9	13	21	23	11	8	13	22
SS91-7138	4	6	20	19	5	7	6	17
SS92-9047	14	19	27	15	20	22	14	10
SS92-9082	8	27	30	18	18	12	6	9
SS92-9933	19	1	6	31	28	28	11	31
V92-0847	17	17	16	27	12	18	24	13

UNIFORM TEST IV, 1997

YIELD RANK

Strain	Manhat- tan KS	Ottawa KS	Topeka KS	Lexing- ton KY	Queens- town MD	Colum- bia MO	Portage ville MO
KS4694 (L)	6	10	31	30	1	11	9
Macon (III)	9	2	10	1	25	16	2
Mustang (SCN)	29	21	3	17	18	7	14
Ripley (dt1)	21	29	20	28	15	22	30
Stressland (IV)	16	12	24	19	26	10	3
HC87-5891	30	19	22	17	10	31	29
HC90-196	14	9	6	21	28	27	28
HC90-2517	5	13	7	24	27	21	26
HC91-1662	20	29	13	2	3	29	31
HC91-1770	22	31	4	4	12	24	27
HC92-1626	4	8	23	25	22	13	19
HS93-4118	3	3	2	9	2	17	5
K1353	23	24	26	11	16	8	20
LN92-10725	8	26	18	23	24	1	1
LN93-11632	13	14	17	6	20	19	7
LN93-11945	11	1	9	3	11	12	17
LN94-10477	25	23	25	9	30	19	13
LN94-10527	27	4	13	15	22	5	18
LS92-3660	19	19	28	27	31	15	22
LS92-4173	18	25	16	25	19	4	12
LS93-0232	28	26	29	14	13	25	14
LS93-0292	31	10	30	29	20	2	16
LS93-0375	24	15	12	13	14	9	6
Md92-5850	1	28	1	5	17	18	4
Md93-5010	26	17	27	8	29	6	8
SS91-6611	16	22	8	12	9	3	11
SS91-7138	2	6	5	16	4	27	10
SS92-9047	10	7	11	19	6	23	25
SS92-9082	12	4	14	7	7	14	23
SS92-9933	15	15	21	31	5	25	21
V92-0847	7	17	19	22	8	30	24

UNIFORM TEST IV, 1997

YIELD RANK

Strain	Adelphia	Mt.Orab	South
	NJ	OH	Charleston OH
KS4694 (L)	11	12	31
Macon (III)	17	5	8
Mustang (SCN)	5	27	28
Ripley (dt1)	28	23	26
Stressland (IV)	30	22	24
HC87-5891	30	2	17
HC90-196	26	1	10
HC90-2517	22	24	16
HC91-1662	19	25	5
HC91-1770	20	31	12
HC92-1626	7	29	15
HS93-4118	13	26	1
K1353	2	3	21
LN92-10725	8	12	13
LN93-11632	11	4	6
LN93-11945	16	18	4
LN94-10477	4	14	20
LN94-10527	25	28	27
LS92-3660	21	17	29
LS92-4173	28	11	30
LS93-0232	3	20	19
LS93-0292	18	7	23
LS93-0375	23	7	11
Md92-5850	6	30	9
Md93-5010	23	18	25
SS91-6611	26	16	18
SS91-7138	15	20	21
SS92-9047	9	14	3
SS92-9082	9	6	7
SS92-9933	1	9	13
V92-0847	13	10	2

UNIFORM TEST IV, 1997

MATURITY (date)

Strain	Mean 15 Tests	George- town DE	Nash- ville IL	Newton IL	Ridg- way IL	Ullin IL	Urbana IL	Lafay- ette IN
KS4694 (L)	5.5	9	2	5	5	2	10	4
Macon (III)	-3.4	-1	-4	-3	-4	-5	-4	-6
Mustang (SCN)	1.3	4	-2	1	-4	-1	5	2
Ripley (dt1)	-0.5	4	-1	-1	-1	-6	2	1
Stressland (IV)	9/28	09/26	09/27	09/26	09/19	09/21	09/29	10/04
HC87-5891	-1.1	3	-2	-4	0	-5	1	-1
HC90-196	-1.1	2	-3	-5	1	-5	1	-2
HC90-2517	-3.9	-3	-5	-8	-4	-5	-3	-6
HC91-1662	-1.3	2	-3	-5	0	-3	2	-2
HC91-1770	-0.9	-3	-2	-1	-1	-3	2	0
HC92-1626	-3.1	-1	-4	-6	-5	-5	-3	-3
HS93-4118	-2.0	2	-4	-5	-2	-4	-2	-5
K1353	1.1	3	0	1	1	-2	2	1
LN92-10725	-0.5	3	-1	-3	-2	-3	1	-2
LN93-11632	-3.1	0	-5	-5	-5	-5	-3	-3
LN93-11945	-2.6	1	-3	-5	-5	-5	-2	-5
LN94-10477	0.3	3	0	0	-2	-5	2	-2
LN94-10527	2.2	5	1	0	2	1	4	1
LS92-3660	-1.8	-1	-4	-1	-2	-2	0	-4
LS92-4173	3.9	4	1	1	4	1	8	2
LS93-0232	1.3	5	-2	-1	0	-3	5	-1
LS93-0292	0.3	4	-4	0	0	-3	1	0
LS93-0375	0.3	2	-1	0	1	-2	0	-1
Md92-5850	-2.6	-1	-4	-3	-5	-4	-4	-4
Md93-5010	2.1	6	1	1	0	1	2	2
SS91-6611	0.4	3	0	0	1	-4	3	-1
SS91-7138	1.7	6	-1	0	0	1	6	1
SS92-9047	-2.5	1	-5	-4	-4	-5	-3	-5
SS92-9082	1.3	6	-1	0	1	-2	2	0
SS92-9933	4.2	9	0	1	3	0	8	2
V92-0847	-0.4	3	-4	-3	-4	-4	1	-2
Date Planted	05/16	05/20	05/13	05/14	05/16	05/20	04/29	05/13
Days to Mature	134.7	129	137	135	126	124	153	144

UNIFORM TEST IV, 1997

MATURITY (date)

Strain	Manhat- tan KS	Ottawa KS	Topeka KS	Lexing- ton KY	Queens- town MD	Colum- bia MO	Portage ville MO
KS4694 (L)	6			8	5	7	6
Macon (III)	1			-1	-1	0	1
Mustang (SCN)	1			6	1	5	4
Ripley (dt1)	3			7	1	2	-7
Stressland (IV)	10/01			09/20	10/10	09/21	09/16
HC87-5891	3			1	4	0	-1
HC90-196	5			2	3	-1	-1
HC90-2517	1			1	-5	0	-2
HC91-1662	2			3	-2	0	-2
HC91-1770	2			2	-1	0	2
HC92-1626	1			1	-5	-1	-1
HS93-4118	2			2	1	2	1
K1353	2			3	1	3	4
LN92-10725	3			2	5	1	0
LN93-11632	0			0	6	1	-5
LN93-11945	1			3	1	1	1
LN94-10477	3			4	4	2	2
LN94-10527	3			5	6	2	5
LS92-3660	0			1	-3	0	2
LS92-4173	6			9	5	8	5
LS93-0232	0			9	6	3	2
LS93-0292	1			6	3	3	1
LS93-0375	2			4	4	4	2
Md92-5850	-2			0	2	2	-2
Md93-5010	2			6	5	7	3
SS91-6611	1			6	2	3	1
SS91-7138	6			6	2	3	2
SS92-9047	1			-1	2	1	-1
SS92-9082	2			7	0	3	2
SS92-9933	6			9	5	4	7
V92-0847	5			2	5	2	2
Date Planted	05/20			05/12	06/06	05/06	05/16
Days to Mature	134	0	0	131	126	138	123

UNIFORM TEST IV, 1997

MATURITY (date)

Strain	Adelphia NJ	Mt.Orab OH	South Charleston OH
KS4694 (L)	4	3	6
Macon (III)	-11	-5	-8
Mustang (SCN)	-1	-1	-1
Ripley (dt1)	-7	-2	-2
Stressland (IV)	10/19	10/03	10/07
HC87-5891	-7	-3	-5
HC90-196	-6	-1	-6
HC90-2517	-7	-6	-7
HC91-1662	-5	-1	-5
HC91-1770	-4	-2	-5
HC92-1626	-7	-2	-6
HS93-4118	-8	-4	-6
K1353	-2	-1	0
LN92-10725	-3	-4	-4
LN93-11632	-9	-7	-7
LN93-11945	-9	-6	-7
LN94-10477	0	-3	-4
LN94-10527	3	-2	-3
LS92-3660	-5	-4	-4
LS92-4173	3	1	1
LS93-0232	-2	0	-2
LS93-0292	-3	-2	-3
LS93-0375	-4	-3	-4
Md92-5850	-6	-2	-6
Md93-5010	-2	0	-3
SS91-6611	-4	-2	-3
SS91-7138	-2	-1	-3
SS92-9047	-5	-3	-6
SS92-9082	2	0	-2
SS92-9933	5	2	2
V92-0847	-5	-1	-3
Date Planted	06/09	05/21	05/06
Days to Mature	132	135	154

UNIFORM TEST IV, 1997

LODGING (score)

Strain	Mean 17 Tests	George- town DE	Nash- ville IL	Newton IL	Ridg- way IL	Ullin IL	Urbana IL	Lafay- ette IN
KS4694 (L)	1.3	1.0	1.0	1.2	1.0	1.0	1.7	1.2
Macon (III)	1.2	1.0	1.0	1.0	1.0	1.0	1.7	1.0
Mustang (SCN)	1.3	1.0	1.0	1.5	1.0	1.0	1.8	1.0
Ripley (dt1)	1.2	1.0	1.0	1.0	1.0	1.0	2.2	1.0
Stressland (IV)	1.5	1.0	1.0	1.5	1.3	1.0	2.0	1.0
HC87-5891	1.2	1.0	1.0	1.0	1.0	1.0	1.3	1.0
HC90-196	1.2	1.0	1.0	1.0	1.0	1.0	1.5	1.0
HC90-2517	1.6	1.0	1.0	1.8	1.8	1.0	3.0	1.0
HC91-1662	1.2	1.0	1.0	1.0	1.0	1.0	2.5	1.0
HC91-1770	1.1	1.0	1.0	1.0	1.0	1.0	1.2	1.0
HC92-1626	1.4	1.0	1.0	1.5	1.5	1.0	2.2	1.0
HS93-4118	1.1	1.0	1.0	1.2	1.0	1.0	1.7	1.0
K1353	1.4	1.0	1.0	1.5	1.7	1.0	2.3	1.2
LN92-10725	1.6	1.0	1.0	1.8	1.7	1.0	2.3	1.0
LN93-11632	1.2	1.0	1.0	1.2	1.5	1.0	1.7	1.0
LN93-11945	1.2	1.0	1.0	1.2	1.0	1.0	2.5	1.0
LN94-10477	2.1	1.0	1.2	2.3	2.5	1.5	3.5	1.5
LN94-10527	1.8	1.0	1.2	2.3	1.8	1.5	3.2	1.5
LS92-3660	1.8	1.0	1.0	1.8	2.0	1.0	2.8	1.2
LS92-4173	1.5	1.0	1.0	1.7	1.2	1.0	2.7	1.2
LS93-0232	1.3	1.0	1.0	1.5	1.0	1.0	2.0	1.0
LS93-0292	1.4	1.0	1.0	1.5	1.2	1.0	2.0	1.0
LS93-0375	1.1	1.0	1.0	1.0	1.0	1.0	1.2	1.0
Md92-5850	1.3	1.0	1.0	1.5	1.0	1.0	2.3	1.0
Md93-5010	1.8	1.0	1.0	2.3	1.0	1.0	2.8	2.3
SS91-6611	1.3	1.0	1.0	1.3	1.0	1.0	1.8	1.0
SS91-7138	1.3	1.0	1.0	1.5	1.2	1.0	2.0	1.0
SS92-9047	1.1	1.0	1.0	1.0	1.0	1.0	1.3	1.0
SS92-9082	1.2	1.0	1.0	1.0	1.0	1.0	1.7	1.0
SS92-9933	1.3	1.0	1.0	1.0	1.0	1.0	1.8	1.0
V92-0847	1.1	1.0	1.0	1.0	1.0	1.0	1.8	1.0

UNIFORM TEST IV, 1997

LODGING (score)

Strain	Manhat- tan KS	Ottawa KS	Topeka KS	Lexing- ton KY	Queens- town MD	Colum- bia MO	Portage ville MO
KS4694 (L)	1.0	1.0	1.3	1.8	2.5	1.0	1.0
Macon (III)	1.0	1.0	1.0	1.0	2.7	1.0	1.5
Mustang (SCN)	1.3	1.0	2.0	1.7	2.5	1.0	1.0
Ripley (dt1)	1.3	1.0	1.0	2.2	1.5	1.0	1.0
Stressland (IV)	1.3	1.3	1.0	1.7	3.5	1.0	1.5
HC87-5891	1.3	1.0	1.3	1.5	2.3	1.0	1.0
HC90-196	1.0	1.0	1.0	1.3	2.3	1.0	1.0
HC90-2517	1.0	1.0	1.7	2.0	3.7	1.0	2.0
HC91-1662	1.0	1.0	1.0	1.3	2.5	1.0	1.0
HC91-1770	1.0	1.0	1.0	1.2	1.7	1.0	1.0
HC92-1626	1.0	1.0	1.7	1.7	2.8	1.0	1.5
HS93-4118	1.0	1.0	1.0	1.2	2.2	1.0	1.0
K1353	1.7	1.0	1.7	1.7	2.3	1.0	1.0
LN92-10725	2.7	1.7	1.7	2.0	2.8	1.0	1.5
LN93-11632	1.0	1.0	1.3	1.0	1.8	1.0	1.0
LN93-11945	1.0	1.0	1.0	1.2	2.5	1.0	1.0
LN94-10477	2.7	2.3	2.3	3.0	3.5	1.0	2.0
LN94-10527	1.7	1.0	2.3	2.5	3.0	1.0	1.5
LS92-3660	2.3	2.0	2.3	2.5	3.5	2.0	1.5
LS92-4173	1.7	1.0	2.0	1.7	2.5	1.0	2.0
LS93-0232	1.0	1.0	1.0	1.3	2.3	1.0	1.5
LS93-0292	1.3	1.0	1.3	2.0	2.7	1.0	1.5
LS93-0375	1.0	1.0	1.0	1.2	2.0	1.0	1.0
Md92-5850	1.3	1.0	1.7	1.0	2.3	1.0	1.0
Md93-5010	1.0	1.0	2.0	2.8	3.5	1.0	2.5
SS91-6611	1.0	1.0	1.0	1.8	2.5	1.0	1.0
SS91-7138	0.9	1.0	1.3	2.2	2.3	1.0	1.5
SS92-9047	1.0	1.0	1.0	1.0	1.7	1.0	1.0
SS92-9082	1.0	1.0	1.0	1.5	2.0	1.0	1.0
SS92-9933	1.0	1.0	1.3	1.3	2.0	2.0	1.0
V92-0847	1.0	1.0	1.0	1.2	1.5	1.0	1.0

UNIFORM TEST IV, 1997

LODGING (score)

Strain	LODGING (score)		
	Adelphia NJ	Mt.Orab OH	South Charleston OH
KS4694 (L)	1.3	1.0	2.0
Macon (III)	1.5	1.0	1.0
Mustang (SCN)	1.5	1.0	1.3
Ripley (dt1)	1.0	1.0	1.0
Stressland (IV)	1.5	1.0	2.3
HC87-5891	1.2	1.0	1.0
HC90-196	1.5	1.0	1.0
HC90-2517	1.7	1.1	1.5
HC91-1662	1.2	1.0	1.5
HC91-1770	1.0	1.0	1.0
HC92-1626	1.5	1.0	1.2
HS93-4118	1.0	1.0	1.0
K1353	2.0	1.0	1.5
LN92-10725	1.7	1.0	1.5
LN93-11632	1.2	1.0	1.0
LN93-11945	1.5	1.0	1.2
LN94-10477	2.5	1.1	2.0
LN94-10527	1.3	1.1	2.8
LS92-3660	1.7	1.0	1.7
LS92-4173	1.5	1.0	1.8
LS93-0232	2.0	1.0	1.2
LS93-0292	1.7	1.0	1.2
LS93-0375	1.3	1.0	1.0
Md92-5850	1.2	1.0	1.3
Md93-5010	2.2	1.0	2.7
SS91-6611	1.7	1.0	1.2
SS91-7138	1.5	1.0	1.5
SS92-9047	1.0	1.0	1.2
SS92-9082	1.3	1.0	1.3
SS92-9933	1.7	1.0	1.7
V92-0847	1.2	1.0	1.2

UNIFORM TEST IV, 1997

PLANT HEIGHT (inches)

Strain	Mean 17 Tests	George- town DE	Nash- ville IL	Newton IL	Ridg- way IL	Ullin IL	Urbana IL	Lafay- ette IN
KS4694 (L)	34	32	25	37	33	28	41	34
Macon (III)	30	26	26	32	33	27	33	31
Mustang (SCN)	35	32	29	39	37	31	38	35
Ripley (dtl)	22	21	23	22	21	12	28	24
Stressland (IV)	36	33	31	42	39	33	42	37
HC87-5891	25	22	25	26	25	18	28	25
HC90-196	22	20	21	25	25	16	29	21
HC90-2517	33	32	28	39	38	27	37	37
HC91-1662	22	22	21	25	23	16	28	26
HC91-1770	21	20	21	24	22	14	27	19
HC92-1626	30	30	26	31	35	26	34	32
HS93-4118	29	28	23	33	34	26	36	30
K1353	34	30	28	35	36	31	41	36
LN92-10725	36	33	32	40	39	34	39	37
LN93-11632	30	27	25	33	31	27	33	32
LN93-11945	30	27	25	33	31	24	35	33
LN94-10477	39	34	35	41	42	35	44	39
LN94-10527	37	34	33	43	43	37	42	39
LS92-3660	37	33	32	40	40	30	38	38
LS92-4173	34	31	27	37	38	30	33	34
LS93-0232	31	30	25	36	34	26	36	34
LS93-0292	35	30	28	38	35	27	41	38
LS93-0375	31	28	27	33	32	26	33	33
Md92-5850	31	27	25	33	34	27	37	32
Md93-5010	32	29	27	34	31	29	33	31
SS91-6611	33	33	26	37	34	30	32	36
SS91-7138	32	31	25	38	34	29	35	33
SS92-9047	30	29	26	33	31	27	33	33
SS92-9082	31	30	24	33	34	28	33	33
SS92-9933	32	30	27	34	36	24	40	31
V92-0847	32	31	26	33	34	27	38	33

UNIFORM TEST IV, 1997

PLANT HEIGHT (inches)

Strain	Manhat- tan KS	Ottawa KS	Topeka KS	Lexing- ton KY	Queens- town MD	Colum- bia MO	Portage ville MO
KS4694 (L)	36	35	44	41	35	29	33
Macon (III)	36	32	39	33	28	26	30
Mustang (SCN)	43	36	48	39	37	27	33
Ripley (dt1)	27	18	27	27	21	20	20
Stressland (IV)	40	39	44	40	34	27	34
HC87-5891	35	24	34	30	24	19	15
HC90-196	27	22	29	27	22	16	19
HC90-2517	36	35	45	35	38	25	30
HC91-1662	25	23	28	26	23	17	14
HC91-1770	26	22	28	27	21	16	14
HC92-1626	32	32	40	32	28	25	32
HS93-4118	34	31	35	31	28	22	28
K1353	40	36	44	37	32	27	32
LN92-10725	43	39	47	38	36	29	36
LN93-11632	37	34	39	33	28	25	29
LN93-11945	37	33	39	34	30	21	28
LN94-10477	45	42	53	44	39	30	38
LN94-10527	38	41	50	41	36	30	32
LS92-3660	42	40	48	42	38	30	34
LS92-4173	41	38	43	39	35	29	36
LS93-0232	33	33	37	37	32	25	26
LS93-0292	37	38	48	39	35	30	33
LS93-0375	33	32	42	34	30	27	31
Md92-5850	37	33	44	32	29	25	31
Md93-5010	35	34	41	34	33	26	33
SS91-6611	35	36	41	38	35	25	30
SS91-7138	34	33	43	36	33	25	30
SS92-9047	35	32	40	29	30	25	25
SS92-9082	36	34	41	35	30	24	31
SS92-9933	36	34	41	37	29	23	24
V92-0847	37	34	42	33	32	24	30

UNIFORM TEST IV, 1997

PLANT HEIGHT (inches)

Strain	Adelphia NJ	Mt.Orab OH	South Charleston OH
KS4694 (L)	29	26	40
Macon (III)	23	21	32
Mustang (SCN)	32	28	36
Ripley (dt1)	16	18	28
Stressland (IV)	28	32	41
HC87-5891	18	20	29
HC90-196	16	17	26
HC90-2517	27	25	34
HC91-1662	18	17	27
HC91-1770	16	13	29
HC92-1626	28	24	30
HS93-4118	24	22	33
K1353	31	28	37
LN92-10725	32	27	37
LN93-11632	27	23	31
LN93-11945	26	24	35
LN94-10477	37	32	40
LN94-10527	29	31	36
LS92-3660	35	32	37
LS92-4173	27	30	37
LS93-0232	29	28	34
LS93-0292	30	29	37
LS93-0375	26	27	31
Md92-5850	26	23	35
Md93-5010	26	27	35
SS91-6611	28	27	35
SS91-7138	27	27	35
SS92-9047	26	23	34
SS92-9082	27	27	34
SS92-9933	30	28	35
V92-0847	28	24	36

UNIFORM TEST IV, 1997

SEED QUALITY (score)

Strain	Mean 16 Tests	George- town DE	Nash- ville IL	Newton IL	Ridg- way IL	Ullin IL	Urbana IL	Lafay- ette IN
KS4694 (L)	1.4	1.0	1.0	1.3	1.4	1.0	1.4	1.0
Macon (III)	1.7	1.0	1.0	1.2	1.4	2.0	1.2	1.0
Mustang (SCN)	1.6	1.0	1.0	1.3	1.4	1.0	1.3	1.0
Ripley (dt1)	1.3	1.0	1.0	1.2	1.3	1.0	1.2	1.0
Stressland (IV)	1.5	1.0	1.0	1.2	1.3	1.0	1.2	1.0
HC87-5891	1.9	1.0	2.0	1.2	1.5	2.0	1.4	1.0
HC90-196	1.7	1.0	1.0	1.2	1.3	2.0	1.3	1.0
HC90-2517	1.6	1.0	1.0	1.2	1.4	2.0	1.2	1.0
HC91-1662	1.5	1.0	1.0	1.2	1.5	1.0	1.3	1.0
HC91-1770	1.4	1.0	1.0	1.2	1.3	2.0	1.3	1.0
HC92-1626	1.6	1.0	1.0	1.2	1.3	2.0	1.2	1.0
HS93-4118	1.8	1.0	2.0	1.2	1.5	2.0	1.4	1.0
K1353	1.6	1.0	1.0	1.2	1.5	1.0	1.4	1.0
LN92-10725	1.8	1.0	1.0	1.2	1.3	2.0	1.4	1.0
LN93-11632	2.0	1.0	2.0	1.5	1.4	2.0	1.4	1.0
LN93-11945	1.8	1.0	1.0	1.2	1.2	2.0	1.6	1.0
LN94-10477	2.1	1.0	2.0	1.3	1.7	3.0	1.8	1.0
LN94-10527	1.6	1.0	1.0	1.2	1.3	1.0	1.5	1.0
LS92-3660	2.0	1.0	1.0	1.5	2.1	1.0	1.3	1.0
LS92-4173	1.6	1.0	1.0	1.2	1.4	2.0	1.3	1.0
LS93-0232	1.6	1.0	1.0	1.3	1.5	1.0	1.4	1.0
LS93-0292	1.7	1.0	1.0	1.2	1.3	2.0	1.3	1.0
LS93-0375	1.6	1.0	1.0	1.2	1.6	2.0	1.4	1.0
Md92-5850	1.7	1.0	1.0	1.3	1.4	2.0	1.3	1.0
Md93-5010	1.4	1.0	1.0	1.2	1.9	1.0	1.3	1.0
SS91-6611	1.8	1.0	1.0	1.2	1.6	2.0	1.7	1.0
SS91-7138	1.4	1.0	1.0	1.2	1.3	1.0	1.2	1.0
SS92-9047	1.9	1.0	1.0	1.2	1.4	2.0	1.5	1.0
SS92-9082	1.7	1.0	1.0	1.2	1.7	2.0	1.5	1.0
SS92-9933	1.8	1.0	1.0	1.2	1.5	1.0	2.1	1.0
V92-0847	1.6	1.0	1.0	1.2	1.2	2.0	1.5	1.0

UNIFORM TEST IV, 1997

SEED QUALITY (score)

Strain	Manhat- tan KS	Ottawa KS	Topeka KS	Lexing- ton KY	Queens- town MD	Colum- bia MO	Portage ville MO
KS4694 (L)	2.0	3.0	3.0	1.0	1.0	1.0	1.0
Macon (III)	2.0	2.0	3.0	3.0	1.3	2.0	2.0
Mustang (SCN)	2.0	3.0	4.0	1.0	1.0	2.0	2.0
Ripley (dt1)	2.0	2.0	2.0	1.0	1.0	1.0	1.5
Stressland (IV)	3.0	2.0	3.0	1.0	1.0	2.0	1.5
HC87-5891	3.0	4.0	4.0	2.0	1.8	1.0	2.0
HC90-196	3.0	4.0	3.0	2.0	1.3	1.0	2.0
HC90-2517	3.0	3.0	3.0	2.0	1.2	1.0	1.5
HC91-1662	2.0	3.0	3.0	2.0	1.2	1.0	1.5
HC91-1770	2.0	2.0	2.0	1.0	1.0	1.0	1.5
HC92-1626	2.0	3.0	3.0	2.0	1.2	1.0	1.5
HS93-4118	3.0	4.0	3.0	2.0	1.3	1.0	2.0
K1353	2.0	2.0	4.0	2.0	1.3	1.0	2.0
LN92-10725	2.0	3.0	3.0	1.0	2.2	3.0	2.0
LN93-11632	4.0	3.0	4.0	2.0	1.5	2.0	2.0
LN93-11945	3.0	4.0	4.0	2.0	1.5	1.0	1.5
LN94-10477	3.0	4.0	4.0	1.0	2.3	2.0	2.5
LN94-10527	2.0	3.0	3.0	1.0	1.2	2.0	2.0
LS92-3660	4.0	4.0	4.0	3.0	1.3	1.0	1.5
LS92-4173	2.0	3.0	3.0	2.0	1.0	1.0	2.0
LS93-0232	3.0	3.0	4.0	1.0	1.0	1.0	1.5
LS93-0292	3.0	4.0	3.0	3.0	1.0	1.0	1.5
LS93-0375	3.0	3.0	3.0	1.0	1.3	1.0	1.5
Md92-5850	3.0	3.0	4.0	1.0	1.5	2.0	1.5
Md93-5010	2.0	2.0	3.0	1.0	1.0	1.0	1.0
SS91-6611	3.0	3.0	3.0	2.0	1.0	2.0	2.0
SS91-7138	3.0	3.0	2.0	1.0	1.0	1.0	1.0
SS92-9047	3.0	3.0	4.0	2.0	2.2	2.0	2.0
SS92-9082	2.0	3.0	3.0	2.0	1.2	2.0	1.5
SS92-9933	2.0	4.0	4.0	1.0	1.7	2.0	1.5
V92-0847	2.0	2.0	3.0	2.0	1.2	2.0	2.0

UNIFORM TEST IV, 1997

SEED QUALITY (score)

Strain	Adelphia NJ	Mt.Orab OH	South Charleston OH
KS4694 (L)		1.0	2.0
Macon (III)		1.1	1.8
Mustang (SCN)		1.1	1.5
Ripley (dt1)		1.0	1.8
Stressland (IV)		1.1	2.0
HC87-5891		1.0	1.8
HC90-196		1.1	1.5
HC90-2517		1.1	1.5
HC91-1662		1.0	1.5
HC91-1770		1.3	2.0
HC92-1626		1.1	2.0
HS93-4118		1.0	2.0
K1353		1.1	2.5
LN92-10725		1.1	1.8
LN93-11632		1.0	1.8
LN93-11945		1.1	2.0
LN94-10477		1.1	2.5
LN94-10527		1.1	2.0
LS92-3660		1.2	2.3
LS92-4173		1.1	2.0
LS93-0232		1.0	2.0
LS93-0292		1.0	1.2
LS93-0375		1.0	1.8
Md92-5850		1.0	1.8
Md93-5010		1.0	2.0
SS91-6611		1.1	2.5
SS91-7138		1.0	2.0
SS92-9047		1.0	1.8
SS92-9082		1.0	2.0
SS92-9933		1.0	2.5
V92-0847		1.0	2.0

UNIFORM TEST IV, 1997

SEED SIZE (g/100)

Strain	Mean 15 Tests	George- town DE	Nash- ville IL	Newton IL	Ridg- way IL	Ullin IL	Urbana IL	Lafay- ette IN
KS4694 (L)	16.3		17.4	14.9	14.1	12.9	16.9	15.3
Macon (III)	17.6		16.8	15.8	14.3	13.1	19.0	17.0
Mustang (SCN)	14.7		15.5	13.6	11.4	11.9	15.9	14.5
Ripley (dt1)	14.1		15.2	12.5	12.9	11.3	14.5	13.8
Stressland (IV)	13.8		13.5	13.5	12.1	11.6	15.2	13.2
HC87-5891	18.8		18.8	16.8	18.0	16.3	19.8	17.2
HC90-196	16.5		15.6	15.0	15.2	12.8	17.1	15.4
HC90-2517	16.0		16.2	14.9	14.0	12.5	17.2	14.9
HC91-1662	13.8		13.5	11.4	12.6	10.9	14.5	14.0
HC91-1770	13.6		13.2	12.4	12.7	12.3	14.3	13.1
HC92-1626	15.1		14.9	13.8	12.8	11.7	16.1	15.0
HS93-4118	15.9		16.6	14.0	13.4	12.5	16.6	15.1
K1353	15.7		15.9	14.1	13.7	12.5	16.5	15.7
LN92-10725	13.4		13.4	11.8	11.7	10.7	14.4	13.5
LN93-11632	17.4		16.9	17.2	15.8	14.0	18.8	17.0
LN93-11945	19.4		19.8	18.0	16.2	15.2	18.4	19.1
LN94-10477	14.8		14.2	12.7	12.2	10.6	16.3	14.5
LN94-10527	13.4		13.5	11.4	12.0	11.1	14.2	13.2
LS92-3660	14.8		14.4	13.3	12.1	12.4	15.1	14.5
LS92-4173	14.5		14.9	14.1	12.5	12.2	15.9	13.6
LS93-0232	16.9		17.3	13.6	14.1	14.0	18.0	15.1
LS93-0292	15.7		15.1	13.9	13.7	12.4	16.9	15.8
LS93-0375	17.2		17.6	14.7	15.0	13.9	18.6	16.6
Md92-5850	14.7		14.3	12.8	12.5	11.6	15.4	13.8
Md93-5010	14.7		16.0	13.0	12.2	12.6	15.6	13.5
SS91-6611	17.1		17.4	15.6	14.9	14.3	18.5	16.8
SS91-7138	14.6		15.2	13.3	12.2	11.7	16.7	13.2
SS92-9047	17.9		17.9	17.5	14.9	14.0	19.4	18.1
SS92-9082	15.9		16.0	14.6	13.3	12.2	17.2	15.7
SS92-9933	17.7		18.7	16.7	13.6	13.7	21.1	15.5
V92-0847	16.1		15.8	14.8	14.0	13.5	17.1	14.9

UNIFORM TEST IV, 1997

SEED SIZE (g/100)

Strain	Manhat- tan KS	Ottawa KS	Topeka KS	Lexing- ton KY	Queens- town MD	Colum- bia MO	Portage ville MO
KS4694 (L)	18.9	17.2	18.0	13.4	21.1	17.4	14.1
Macon (III)	19.0	19.0	18.8	18.2	20.7	19.5	14.7
Mustang (SCN)	16.1	16.6	16.3	13.1	19.0	15.7	12.3
Ripley (dt1)	15.4	16.0	14.5	12.0	16.4	15.2	11.3
Stressland (IV)	15.8	13.0	15.1	10.8	17.0	12.6	11.6
HC87-5891	20.4	20.2	21.7	17.0	22.5	20.0	15.9
HC90-196	15.9	18.3	19.2	15.6	20.0	16.8	15.3
HC90-2517	18.6	17.8	18.4	15.6	18.1	16.1	13.7
HC91-1662	15.2	15.6	14.8	12.9	17.5	14.9	11.6
HC91-1770	14.0	14.7	13.5	12.1	17.7	15.1	13.4
HC92-1626	18.4	15.9	16.1	13.3	18.5	15.9	12.4
HS93-4118	17.5	17.3	17.4	12.8	20.7	18.0	13.8
K1353	18.0	16.2	17.6	14.1	18.5	15.5	13.9
LN92-10725	15.3	15.6	14.1	10.3	16.9	14.2	10.4
LN93-11632	17.4	19.0	17.8	15.3	21.7	18.1	14.9
LN93-11945	22.2	20.7	18.4	18.4	22.7	22.3	18.4
LN94-10477	16.8	17.0	16.7	14.2	16.4	16.2	12.9
LN94-10527	15.0	15.1	13.9	10.3	16.9	15.5	11.5
LS92-3660	15.8	16.4	16.9	11.4	18.0	17.1	12.8
LS92-4173	16.2	13.5	15.0	12.3	18.7	16.6	13.0
LS93-0232	18.9	19.1	19.4	15.4	22.3	18.4	14.2
LS93-0292	16.4	17.7	16.9	14.3	20.2	17.1	12.5
LS93-0375	19.1	19.4	18.0	15.8	21.9	18.2	14.8
Md92-5850	17.3	17.0	16.8	14.0	17.3	16.3	13.3
Md93-5010	16.1	16.3	16.7	10.6	17.7	17.2	13.1
SS91-6611	19.0	18.4	18.2	15.9	21.0	18.0	13.4
SS91-7138	16.1	15.9	16.1	12.1	19.0	15.2	11.8
SS92-9047	18.3	19.7	20.4	15.2	21.5	20.7	15.2
SS92-9082	18.0	16.2	16.4	18.9	19.1	15.7	12.7
SS92-9933	19.1	19.3	19.9	13.3	22.9	18.6	16.2
V92-0847	17.8	17.3	17.1	12.9	20.6	17.4	14.0

UNIFORM TEST IV, 1997

SEED SIZE (g/100)

Strain	Adelphia NJ	Mt.Orab OH	South Charleston OH
KS4694 (L)		17.2	15.6
Macon (III)		19.1	18.6
Mustang (SCN)		14.1	14.4
Ripley (dt1)		15.5	14.3
Stressland (IV)		17.1	14.9
HC87-5891		19.2	18.8
HC90-196		18.2	17.0
HC90-2517		15.2	16.1
HC91-1662		13.9	14.0
HC91-1770		13.1	13.1
HC92-1626		15.1	15.9
HS93-4118		16.8	16.7
K1353		17.0	16.7
LN92-10725		14.3	14.2
LN93-11632		19.6	17.5
LN93-11945		20.6	20.1
LN94-10477		15.4	15.8
LN94-10527		13.5	13.8
LS92-3660		16.2	15.4
LS92-4173		14.3	14.7
LS93-0232		16.0	17.4
LS93-0292		16.3	16.2
LS93-0375		17.7	16.9
Md92-5850		13.7	15.0
Md93-5010		15.8	14.3
SS91-6611		17.2	18.4
SS91-7138		15.6	15.1
SS92-9047		17.5	18.0
SS92-9082		15.9	16.6
SS92-9933		19.0	17.9
V92-0847		17.7	17.3

UNIFORM TEST IV, 1997

PROTEIN (%)

Strain	Mean 5 Tests	Newton IL	Urbana IL	Lafayette IN	Lexington KY	Mt. Orab OH
KS4694 (L)	40.6	41.9	38.9	41.1	40.1	41.0
Macon (III)	40.8	41.9	39.4	40.6	39.2	43.0
Mustang (SCN)	41.2	42.7	41.3	41.3	38.2	42.5
Ripley (dtl)	40.8	42.3	39.4	39.8	39.9	42.5
Stressland (IV)	42.9	44.8	42.0	42.3	42.7	42.6
HC87-5891	41.7	43.4	40.8	40.3	41.7	42.2
HC90-196	39.2	41.7	38.5	37.8	35.6	42.5
HC90-2517	40.8	41.7	40.2	39.7	40.1	42.2
HC91-1662	40.8	42.3	40.8	40.3	38.6	41.8
HC91-1770	41.3	41.9	41.5	40.0	41.5	41.6
HC92-1626	41.0	42.2	39.9	39.8	41.3	41.8
HS93-4118	40.0	40.9	38.4	37.8	40.4	42.3
K1353	40.6	41.1	41.0	39.8	38.5	42.8
LN92-10725	42.2	42.5	42.0	42.1	42.0	42.5
LN93-11632	40.9	41.9	40.1	40.7	39.8	41.8
LN93-11945	43.0	42.9	42.9	42.7	41.8	44.6
LN94-10477	39.6	40.4	39.5	39.4	38.5	40.2
LN94-10527	39.8	39.6	40.0	39.8	38.9	40.8
LS92-3660	42.8	43.6	41.8	42.6	41.9	44.3
LS92-4173	39.7	40.0	39.7	39.7	38.8	40.3
LS93-0232	41.0	41.9	41.2	40.9	39.5	41.6
LS93-0292	41.7	41.2	42.2	41.3	41.2	42.7
LS93-0375	42.1	42.2	41.7	41.9	40.6	43.9
Md92-5850	40.0	41.7	40.2	38.1	38.6	41.5
Md93-5010	41.8	42.0	40.1	41.1	42.2	43.7
SS91-6611	42.3	42.6	41.8	41.4	41.0	44.8
SS91-7138	40.9	42.1	41.3	40.5	39.1	41.6
SS92-9047	41.6	43.3	39.9	40.9	39.5	44.6
SS92-9082	42.0	42.7	40.9	42.2	41.1	43.3
SS92-9933	41.2	42.6	41.3	40.1	40.0	41.9
V92-0847	41.5	41.8	41.1	40.5	41.6	42.5

UNIFORM TEST IV, 1997

OIL (%)

Strain	Mean 5 Tests	Newton IL	Urbana IL	Lafayette IN	Lexington KY	Mt. Orab OH
KS4694 (L)	20.0	20.9	20.6	19.7	19.6	19.2
Macon (III)	20.4	20.9	21.3	19.7	21.2	19.1
Mustang (SCN)	19.5	19.6	20.6	18.7	20.4	18.1
Ripley (dt1)	19.8	20.0	20.8	19.8	19.7	18.9
Stressland (IV)	19.6	20.5	20.4	19.5	19.0	18.8
HC87-5891	20.8	20.8	21.3	21.2	20.3	20.3
HC90-196	21.6	21.6	22.1	21.5	23.2	19.4
HC90-2517	21.0	21.7	21.7	20.8	21.2	19.4
HC91-1662	20.4	20.4	20.9	20.1	21.6	19.2
HC91-1770	19.9	20.8	20.8	19.7	19.9	18.5
HC92-1626	20.5	21.1	21.4	20.3	19.9	19.7
HS93-4118	19.7	20.5	20.3	20.2	19.3	18.2
K1353	19.4	20.4	19.6	19.1	20.0	17.9
LN92-10725	19.7	20.6	20.5	19.7	18.7	19.1
LN93-11632	20.0	20.6	20.5	19.6	20.9	18.3
LN93-11945	20.0	20.8	20.3	19.6	20.8	18.6
LN94-10477	19.9	19.7	20.7	19.3	20.6	19.1
LN94-10527	20.0	20.8	20.4	19.8	20.0	19.0
LS92-3660	19.1	19.1	20.3	19.3	19.4	17.4
LS92-4173	19.5	20.8	19.7	18.8	19.5	18.7
LS93-0232	19.9	20.3	20.1	19.5	20.1	19.5
LS93-0292	19.6	20.9	19.7	19.5	19.7	18.4
LS93-0375	19.5	20.1	19.9	19.3	20.2	18.2
Md92-5850	21.4	21.2	22.1	21.7	22.0	20.2
Md93-5010	19.0	20.0	19.9	18.7	18.5	17.8
SS91-6611	19.9	20.7	20.4	19.2	20.2	19.1
SS91-7138	20.3	21.0	20.3	19.9	20.8	19.6
SS92-9047	20.2	20.9	20.5	20.3	20.6	18.6
SS92-9082	20.2	20.8	20.2	19.5	21.3	19.0
SS92-9933	20.0	20.6	20.6	19.7	19.8	19.3
V92-0847	20.2	21.2	20.3	20.3	19.5	19.8

Preliminary Test IVA

Strain	Parentage	Generation Composited	Unique Traits
1. KS4694 (L)	Sherman x Toano	F5	
2. Macon (III)	Sherman x Resnik	F5	
3. Stressland (IV)	HC80-1946 x Asgrow A3127	F5	
4. C1945	CRS3C4	F4	
5. C1947	C1742 x (PI 427.088D x A86-301-24)	F5	
6. C1956	HS88-4909 x Corsica	F5	
7. C1958	HS88-4909 x HC85-2206	F5	
8. HC92-1747	HC83-4507 x Conrad	F5	
9. HC92-1834	Resnik x H85-5273	F5	
10. HC93-2297	Kenwood x Hoyt BC	F5	
11. HC93-2356	HC78-676BC x Kenwood	F5	
12. HC93-2358	HC78-676BC x Kenwood	F5	
13. HC93-2370	HC78-676BC x Kenwood	F5	
14. HC93-2403	HC78-676BC x Edison	F5	
15. HC93-2457	HC85-5097 x Amcor 89	F5	
16. HC93-2482	HC85-6723 x Harper 87	F5	
17. HC93-2546	Charleston x Resnik	F5	
18. HC93-2591	Charleston x Pella 86	F5	
19. HC93-2690	HC78-676BC x A86-303014	F5	
20. LG93-7792	LG86-6989 x AsgrowA3205	F6	
21. LN92-10518	Jack x A86-303014	F5	
22. LN93-1178	Burlison x A86-301024	F5	Rps?
23. LN93-10913	A86-301024 x Bass	F5	
24. LN94-2884	Pioneer P9341 x Resnik	F5	
25. LS94-0466	Flyer x Nile	F6	SCN
26. LS94-1091	Pioneer 9442 x Linford	F6	SCN
27. LS94-1165	Pioneer 9442 x Linford	F6	SCN
28. LS94-1375	Pioneer 9442 x Linford	F6	SCN
29. LS94-2435	Resnik x Asgrow A4009	F6	SCN
30. SS93-1917	Asgrow A3733 x (Pioneer P9391 x Asgrow A4009	F5	
31. SS93-4915	Pioneer P9461 x A90-311023	F5	
32. SS93-10616	Pioneer P9442 x Asgrow A4393	F5	
33. SS94-11075	Pioneer 9442 x Asgrow A3935	F5	
34. SS94-11114	Pioneer 9442 x Asgrow A3935	F5	
35. U96-3123	MSBP2 (F1 bulk)	F7	
36. V94-0186	C1747 x Corsica	F5	

PRELIMINARY TEST IVA, 1997

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	<u>Shattering</u>	<u>PR</u>	<u>Hard Seed</u>	<u>PS</u>	<u>P&SB</u>
		Score Manhattan	Lafayette Race 7	Lafayette %	a %	n %
KS4694 (L)	WGBrSYBfepI	2.0	S	0	7	0
Macon (III)	WTTnSYBlEpI	2.0	S	0	28	0
Stressland (IV)	PTTnDYBlHI	2.0	S	0	4	0
C1945	PTBrIYLBlepI	2.0	S	0	4	2
C1947	WTBrSYBlepSD	2.0	R	0	22	8
C1956	PTBrDYBlEpI	2.0	R	0	8	6
C1958	PTTnSYBlepI	2.0	R	0	50	2
HC92-1747	WTTnSYBrepI	2.0	S	0	12	0
HC92-1834	PTTnDYBlEpI	2.0	S	0	40	0
HC93-2297	PTBrDYBlHI	2.0	S	0	28	6
HC93-2356	PTBrSYBlepI	2.0	R	0	32	0
HC93-2358	PTBrDYBlepI	2.0	R	0	32	2
HC93-2370	PTBrDYBrepI	2.0	S	0	26	0
HC93-2403	PTTnSYBrEpI	2.0	R	0	46	0
HC93-2457	PGBrIYBfEpI	2.0	S	0	12	4
HC93-2482	PTBrSYBlEpI	2.0	S	0	6	4
HC93-2546	PTTnDYBlEpI	2.0	S	0	4	4
HC93-2591	WTTnSYBlEpI	2.0	S	0	24	0
HC93-2690	PTBrSYBrepI	2.0	R	0	24	4
LG93-7792	PTBrSYBrepI	2.0	S	0	8	2
LN92-10518	WGTnDYLBfepI	2.0	H	0	14	0
LN93-1178	WTBrDYBlepI	2.0	S	0	6	0
LN93-10913	PGTnSYIbepI	2.0	S	0	4	0
LN94-2888	WTTnDYBlEpI	2.0	S	0	8	0
LS94-0466	WTTnDYBlEpI	2.0	S	0	2	0
LS94-1091	PTTnSYBlEpI	2.0	S	0	8	0
LS94-1165	WTTnSYBlEpI	2.0	S	0	2	0
LS94-1375	PTTnSYBlEpI	2.0	S	0	0	0
LS94-2435	WTTnDYBlEpI	2.0	S	0	12	0
SS93-1917	P+WG+TTnDYHepI	2.0	R	0	2	4
SS93-4915	PTTnDYBrepI	2.0	S	0	28	4
SS93-10616	PTTnDYBlHI	2.0	S	0	8	2
SS94-11075	P+WTTnSYLBlepI	2.0	S	0	2	0
SS94-11114	WTTnSYBlEpI	2.0	S	0	6	0
U96-3123	WGTnDYBfEpI	2.0	S	0	18	0
V94-0186	WTTnDYBlEpI	2.0	R	0	28	0

PRELIMINARY TEST IVA, 1997

REGIONAL SUMMARY

No. of Tests Strain	Yield	Rank	Maturity	Lodging	Plant	Seed	Seed	Composition	
	8 bu/a	8 No.	8 Date	8 Score	8 Height In.	8 Quality Score	8 Size g/100	3 Protein %	3 Oil %
KS4694 (L)	57.0	18	6.3	1.6	34	1.5	17.3	40.7	20.0
Macon (III)	58.6	7	-3.1	1.3	29	1.4	18.1	40.1	20.5
Stressland (IV)	60.0	2	9/30	1.8	35	1.3	14.5	42.5	19.6
C1945	47.9	36	-5.6	1.8	35	2.0	18.7	48.3	17.5
C1947	54.0	33	-3.3	1.3	24	1.9	17.8	41.4	20.4
C1956	58.1	11	-3.8	1.2	30	1.7	16.7	40.2	20.1
C1958	58.4	10	-3.5	1.7	32	2.0	19.2	39.9	21.0
HC92-1747	52.5	35	-1.9	2.3	34	1.5	17.9	40.0	20.8
HC92-1834	54.9	30	-4.8	1.5	33	1.5	15.1	40.4	20.2
HC93-2297	55.2	29	-1.5	1.8	36	2.0	18.2	41.2	20.3
HC93-2356	58.6	7	-0.9	2.0	34	1.6	14.7	39.9	20.3
HC93-2358	57.5	14	-2.1	1.8	34	1.7	16.3	41.4	20.0
HC93-2370	57.9	12	-0.9	2.1	32	1.8	14.8	40.2	20.4
HC93-2403	55.4	28	-3.5	1.3	31	1.6	14.5	40.2	20.6
HC93-2457	56.9	19	2.8	2.6	38	2.3	18.0	40.6	20.1
HC93-2482	55.6	26	-3.0	2.2	35	2.2	18.6	41.9	20.1
HC93-2546	55.6	26	-3.9	2.1	34	1.4	15.3	42.9	19.5
HC93-2591	55.8	24	-0.9	2.0	38	1.5	15.3	42.7	19.4
HC93-2690	60.8	1	0.5	1.6	33	2.1	17.4	41.2	20.0
LG93-7792	56.1	23	-1.1	1.5	30	1.7	16.1	41.1	19.3
LN92-10518	56.4	21	-2.1	1.9	35	1.5	14.6	39.8	20.1
LN93-1178	57.3	17	1.0	1.3	35	2.0	21.5	42.4	19.0
LN93-10913	56.8	20	-2.4	1.1	28	1.8	15.6	41.9	19.2
LN94-2888	58.9	5	-1.8	1.3	30	1.7	16.1	40.8	20.2
LS94-0466	54.7	31	-1.0	1.8	34	1.4	13.2	39.9	20.1
LS94-1091	53.5	34	-4.5	1.2	28	1.6	16.6	42.3	19.0
LS94-1165	55.7	25	1.0	1.8	35	1.5	17.0	42.0	19.8
LS94-1375	56.3	22	4.1	1.9	35	1.6	19.6	42.1	19.5
LS94-2435	57.5	14	-2.9	1.3	32	1.6	16.6	40.7	20.0
SS93-1917	54.2	32	2.3	1.7	36	1.7	16.4	41.0	20.0
SS93-4915	58.6	7	3.1	1.8	35	1.9	17.6	41.9	20.6
SS93-10616	57.4	16	2.8	1.9	38	1.6	18.5	41.3	19.3
SS94-11075	58.9	5	2.5	1.6	34	1.4	16.4	41.0	20.5
SS94-11114	59.6	3	0.5	1.4	32	1.7	16.2	41.5	19.8
U96-3123	59.3	4	-0.9	1.2	30	1.5	17.6	41.6	19.3
V94-0186	57.6	13	-1.9	1.1	28	2.0	17.1	40.6	20.3

139.3 Days After Planting

PRELIMINARY TEST IVA, 1997

Strain	YIELD (bu/a)				
	Mean 8 Tests	Nashville IL	Urbana IL	Manhattan KS	Lexington KY
KS4694 (L)	57.0	48.0	64.4	62.2	59.9
Macon (III)	58.6	43.0	62.6	58.7	66.9
Stressland (IV)	60.0	54.3	62.1	59.7	65.3
C1945	47.9	38.2	45.4	45.3	52.9
C1947	54.0	38.4	62.0	62.4	56.0
C1956	58.1	42.6	63.3	65.2	67.6
C1958	58.4	43.8	59.9	66.2	66.0
HC92-1747	52.5	47.7	52.8	58.2	47.7
HC92-1834	54.9	41.0	57.1	63.1	70.1
HC93-2297	55.2	39.4	58.6	59.5	65.7
HC93-2356	58.6	53.8	59.6	67.1	65.8
HC93-2358	57.5	46.4	55.7	62.9	63.9
HC93-2370	57.9	47.3	56.8	61.8	65.1
HC93-2403	55.4	36.8	60.5	60.6	61.9
HC93-2457	56.9	46.6	59.4	58.0	59.3
HC93-2482	55.6	48.7	57.3	55.1	61.8
HC93-2546	55.6	41.0	61.1	58.2	64.6
HC93-2591	55.8	40.5	59.5	56.4	65.7
HC93-2690	60.8	56.2	58.9	67.1	68.9
LG93-7792	56.1	48.7	55.5	56.1	57.4
LN92-10518	56.4	45.6	59.3	53.3	64.3
LN93-1178	57.3	45.0	58.9	59.6	61.8
LN93-10913	56.8	47.3	62.2	62.3	64.1
LN94-2888	58.9	47.8	61.5	65.7	62.8
LS94-0466	54.7	52.2	60.0	58.7	64.7
LS94-1091	53.5	47.0	57.1	54.2	54.3
LS94-1165	55.7	50.1	59.6	48.8	57.0
LS94-1375	56.3	52.2	57.9	54.9	61.4
LS94-2435	57.5	50.8	59.9	58.5	65.8
SS93-1917	54.2	42.3	56.2	56.3	63.1
SS93-4915	58.6	48.5	60.0	61.6	65.5
SS93-10616	57.4	48.2	62.5	58.6	54.7
SS94-11075	58.9	57.8	60.7	63.7	65.6
SS94-11114	59.6	48.4	66.8	69.3	65.2
U96-3123	59.3	44.1	62.5	67.1	68.1
V94-0186	57.6	45.0	64.3	64.3	66.5
C.V. (%)		8.9	5.5	3.8	5.8
L.S.D. (5%)		8.4	6.6	4.6	6.1
Row Sp. (In.)		30	30	30	30
Rows/Plot		4	4	4	4
Reps		2	2	2	2

PRELIMINARY TEST IVA, 1997

Strain	YIELD (bu/a)			
	Queenstown MD	Columbia MO	Mt. Orab OH	South Charleston OH
KS4694 (L)	64.8	45.2	50.7	60.4
Macon (III)	63.8	41.3	54.4	77.9
Stressland (IV)	65.4	50.1	49.7	73.7
C1945	48.9	36.2	50.2	66.1
C1947	55.0	34.2	48.1	76.0
C1956	63.8	37.0	48.4	76.5
C1958	57.5	37.3	59.6	76.6
HC92-1747	58.8	36.7	49.1	69.2
HC92-1834	59.5	30.8	43.8	74.1
HC93-2297	60.2	31.3	50.1	76.5
HC93-2356	61.9	34.6	54.4	71.9
HC93-2358	63.7	34.6	60.3	72.8
HC93-2370	66.8	42.9	49.5	73.3
HC93-2403	61.1	34.5	51.6	75.9
HC93-2457	61.9	35.5	59.7	74.7
HC93-2482	59.3	41.9	51.8	68.8
HC93-2546	56.4	40.9	49.3	73.0
HC93-2591	59.9	39.3	47.8	77.6
HC93-2690	64.3	39.4	55.5	76.3
LG93-7792	60.3	44.2	49.2	77.1
LN92-10518	64.3	37.8	51.5	75.3
LN93-1178	64.7	42.0	52.3	74.0
LN93-10913	62.7	36.3	47.5	72.1
LN94-2888	65.0	38.8	53.6	75.7
LS94-0466	58.6	33.4	45.2	64.6
LS94-1091	60.7	40.6	43.8	69.9
LS94-1165	64.5	43.7	52.6	69.5
LS94-1375	61.4	47.9	45.8	68.5
LS94-2435	62.4	46.8	46.3	69.7
SS93-1917	56.5	41.5	50.5	67.0
SS93-4915	61.3	50.6	51.0	69.9
SS93-10616	64.2	47.0	52.8	71.1
SS94-11075	68.3	42.9	43.4	68.8
SS94-11114	61.4	42.2	50.9	72.7
U96-3123	59.9	42.3	53.9	76.2
V94-0186	61.8	35.2	49.6	74.4
C.V. (%)	4.9	10.8	9.9	4.6
L.S.D. (5%)	6.1	8.9	10.1	6.8
Row Sp. (In.)	30	30	15	7.5
Rows/Plot	4	4	6	8
Reps	2	2	2	2

PRELIMINARY TEST IVA, 1997

YIELD RANK

Strain	Yield Rank	Nashville IL	Urbana IL	Manhattan KS	Lexington KY
KS4694 (L)	18	14	2	14	28
Macon (III)	7	27	5	21	5
Stressland (IV)	2	3	9	18	14
C1945	36	35	36	36	35
C1947	33	34	10	12	32
C1956	11	28	4	7	4
C1958	10	26	17	5	7
HC92-1747	35	16	35	25	36
HC92-1834	30	31	29	10	1
HC93-2297	29	33	26	20	10
HC93-2356	7	4	19	2	8
HC93-2358	14	21	33	11	21
HC93-2370	12	17	31	15	16
HC93-2403	28	36	14	17	24
HC93-2457	19	20	22	27	29
HC93-2482	26	9	28	31	25
HC93-2546	26	30	12	25	18
HC93-2591	24	32	21	28	10
HC93-2690	1	2	24	2	2
LG93-7792	23	9	34	30	30
LN92-10518	21	22	23	34	19
LN93-1178	17	23	24	19	25
LN93-10913	20	17	8	13	20
LN94-2888	5	15	11	6	23
LS94-0466	31	6	15	21	17
LS94-1091	34	19	29	33	34
LS94-1165	25	8	19	35	31
LS94-1375	22	5	27	32	27
LS94-2435	14	7	17	24	8
SS93-1917	32	29	32	29	22
SS93-4915	7	11	15	16	13
SS93-10616	16	13	6	23	33
SS94-11075	5	1	13	9	12
SS94-11114	3	12	1	1	15
U96-3123	4	25	6	2	3
V94-0186	13	23	3	8	6

PRELIMINARY TEST IVA, 1997

Strain	YIELD RANK			
	Queenstown MD	Columbia MO	Mt. Orab OH	South Charleston OH
KS4694 (L)	5	6	17	36
Macon (III)	11	16	5	1
Stressland (IV)	3	2	21	17
C1945	36	27	19	34
C1947	35	33	28	9
C1956	11	24	27	5
C1958	32	23	3	4
HC92-1747	30	25	26	29
HC92-1834	28	36	34	15
HC93-2297	25	35	20	5
HC93-2356	16	30	5	23
HC93-2358	13	30	1	20
HC93-2370	2	9	23	18
HC93-2403	22	32	13	10
HC93-2457	16	28	2	13
HC93-2482	29	14	12	30
HC93-2546	34	17	24	19
HC93-2591	26	20	29	2
HC93-2690	8	19	4	7
LG93-7792	24	7	25	3
LN92-10518	8	22	14	12
LN93-1178	6	13	11	16
LN93-10913	14	26	30	22
LN94-2888	4	21	8	11
LS94-0466	31	34	33	35
LS94-1091	23	18	34	25
LS94-1165	7	8	10	28
LS94-1375	19	3	32	32
LS94-2435	15	5	31	27
SS93-1917	33	15	18	33
SS93-4915	21	1	15	25
SS93-10616	10	4	9	24
SS94-11075	1	9	36	30
SS94-11114	19	12	16	21
U96-3123	26	11	7	8
V94-0186	18	29	22	14

PRELIMINARY TEST IVA, 1997

Strain	MATURITY (date)				
	Mean 8 Tests	Nashville IL	Urbana IL	Manhattan KS	Lexington KY
KS4694 (L)	6.3	5	7	6	7
Macon (III)	-3.1	-3	-4	-1	-4
Stressland (IV)	9/30	09/26	10/02	10/02	09/22
C1945	-5.6	-6	-11	-4	-4
C1947	-3.3	-5	-3	-2	-3
C1956	-3.8	-6	-5	0	-5
C1958	-3.5	-4	-5	-2	-4
HC92-1747	-1.9	-3	-3	1	0
HC92-1834	-4.8	-4	-7	-2	-5
HC93-2297	-1.5	-2	-4	1	0
HC93-2356	-0.9	-1	-1	-1	0
HC93-2358	-2.1	-2	-3	-3	-3
HC93-2370	-0.9	2	-4	2	0
HC93-2403	-3.5	-4	-4	-2	-6
HC93-2457	2.8	2	4	6	7
HC93-2482	-3.0	-2	-5	-1	-1
HC93-2546	-3.9	-6	-4	-3	-3
HC93-2591	-0.9	-2	-3	1	1
HC93-2690	0.5	0	-2	6	0
LG93-7792	-1.1	-1	-3	-2	2
LN92-10518	-2.1	-8	0	-1	0
LN93-1178	1.0	1	3	0	1
LN93-10913	-2.4	-1	-5	1	-3
LN94-2888	-1.8	-2	-4	-1	0
LS94-0466	-1.0	-2	-1	-1	1
LS94-1091	-4.5	-6	-6	-1	-6
LS94-1165	1.0	0	1	1	3
LS94-1375	4.1	2	6	2	7
LS94-2435	-2.9	-2	-5	-1	-3
SS93-1917	2.3	0	4	2	7
SS93-4915	3.1	2	3	3	7
SS93-10616	2.8	3	1	2	6
SS94-11075	2.5	2	3	-1	5
SS94-11114	0.5	-1	1	0	2
U96-3123	-0.9	-3	-2	1	-2
V94-0186	-1.9	-2	-3	-6	0
Date Planted	05/14	05/13	04/29	05/20	05/13
Days to Mature	139.3	136	156	135	132

PRELIMINARY TEST IVA, 1997

Strain	MATURITY (date)			
	Queenstown MD	Columbia MO	Mt. Orab OH	South Charleston OH
KS4694 (L)	6	9	2	8
Macon (III)	0	1	-6	-8
Stressland (IV)	10/10	09/22	10/04	10/07
C1945	-3	0	-7	-10
C1947	1	0	-6	-8
C1956	1	-1	-6	-8
C1958	1	-1	-5	-8
HC92-1747	1	1	-6	-6
HC92-1834	-1	-1	-8	-10
HC93-2297	4	1	-6	-6
HC93-2356	4	1	-4	-5
HC93-2358	3	2	-5	-6
HC93-2370	2	3	-5	-7
HC93-2403	0	0	-5	-7
HC93-2457	4	4	-3	-2
HC93-2482	-1	0	-6	-8
HC93-2546	0	-1	-6	-8
HC93-2591	3	2	-5	-4
HC93-2690	4	3	-3	-4
LG93-7792	1	2	-3	-5
LN92-10518	3	1	-5	-7
LN93-1178	4	5	-3	-3
LN93-10913	1	1	-6	-7
LN94-2888	2	2	-5	-6
LS94-0466	1	2	-5	-3
LS94-1091	-5	-1	-5	-6
LS94-1165	2	5	-2	-2
LS94-1375	4	8	3	1
LS94-2435	1	0	-6	-7
SS93-1917	0	6	1	-2
SS93-4915	3	6	1	0
SS93-10616	5	6	0	-1
SS94-11075	3	5	1	2
SS94-11114	3	5	-2	-4
U96-3123	4	2	-4	-3
V94-0186	4	2	-4	-6
Date Planted	06/06	05/06	05/21	05/06
Days to Mature	126	139	136	154

PRELIMINARY TEST IVA, 1997

Strain	LODGING (score)				
	Mean 8 Tests	Nashville IL	Urbana IL	Manhattan KS	Lexington KY
KS4694 (L)	1.6	1.0	1.5	1.0	2.5
Macon (III)	1.3	1.0	1.5	1.0	1.5
Stressland (IV)	1.8	1.0	2.3	1.5	2.5
C1945	1.8	1.0	2.3	2.0	2.5
C1947	1.3	1.0	1.5	1.0	1.5
C1956	1.2	1.0	1.3	1.0	1.0
C1958	1.7	1.0	1.8	2.5	1.8
HC92-1747	2.3	1.0	2.0	3.0	4.0
HC92-1834	1.5	1.0	1.5	1.5	1.8
HC93-2297	1.8	1.0	1.5	2.0	2.5
HC93-2356	2.0	1.0	2.0	2.5	2.8
HC93-2358	1.8	1.0	2.0	2.0	2.5
HC93-2370	2.1	1.0	2.3	2.5	3.0
HC93-2403	1.3	1.0	1.8	1.0	1.5
HC93-2457	2.6	1.0	3.5	2.5	4.0
HC93-2482	2.2	1.0	2.3	3.0	2.8
HC93-2546	2.1	1.0	2.3	3.0	3.3
HC93-2591	2.0	1.0	2.3	2.5	2.5
HC93-2690	1.6	1.0	2.0	2.0	2.3
LG93-7792	1.5	1.0	1.5	1.5	2.3
LN92-10518	1.9	1.0	2.3	3.0	2.3
LN93-1178	1.3	1.0	2.0	1.0	1.3
LN93-10913	1.1	1.0	1.0	1.0	1.0
LN94-2888	1.3	1.0	1.5	1.0	1.3
LS94-0466	1.8	1.0	2.5	2.0	2.5
LS94-1091	1.2	1.0	1.5	1.0	1.0
LS94-1165	1.8	1.0	2.0	1.5	2.8
LS94-1375	1.9	1.0	2.5	2.0	3.5
LS94-2435	1.3	1.0	1.5	1.0	2.0
SS93-1917	1.7	1.0	2.3	1.5	3.5
SS93-4915	1.8	1.0	2.8	2.0	2.5
SS93-10616	1.9	1.0	2.5	2.0	2.5
SS94-11075	1.6	1.0	2.0	1.0	2.3
SS94-11114	1.4	1.0	2.0	1.0	2.0
U96-3123	1.2	1.0	1.5	1.0	1.3
V94-0186	1.1	1.0	1.3	1.0	1.0

PRELIMINARY TEST IVA, 1997

Strain	LODGING (score)			
	Queenstown MD	Columbia MO	Mt. Orab OH	South Charleston OH
KS4694 (L)	2.0	1.0	1.0	2.5
Macon (III)	2.0	1.0	1.0	1.0
Stressland (IV)	3.3	1.0	1.1	2.0
C1945	3.5	1.0	1.1	1.3
C1947	1.8	1.0	1.0	1.3
C1956	2.0	1.0	1.0	1.0
C1958	3.0	1.0	1.0	1.3
HC92-1747	4.0	1.0	1.0	2.0
HC92-1834	3.0	1.0	1.0	1.0
HC93-2297	3.3	1.0	1.0	2.0
HC93-2356	3.3	1.0	1.0	2.3
HC93-2358	3.5	1.0	1.0	1.5
HC93-2370	3.5	1.0	1.0	2.3
HC93-2403	2.3	1.0	1.0	1.0
HC93-2457	3.8	1.0	1.3	3.3
HC93-2482	3.8	1.0	1.1	2.3
HC93-2546	3.3	1.0	1.1	1.8
HC93-2591	3.3	1.0	1.1	2.0
HC93-2690	2.3	1.0	1.0	1.0
LG93-7792	2.0	1.0	1.0	1.3
LN92-10518	2.3	1.0	1.0	2.3
LN93-1178	2.0	1.0	1.0	1.0
LN93-10913	1.8	1.0	1.0	1.0
LN94-2888	2.0	1.0	1.0	1.8
LS94-0466	2.3	1.0	1.0	2.3
LS94-1091	2.0	1.0	1.0	1.0
LS94-1165	3.0	1.0	1.0	2.3
LS94-1375	2.3	1.0	1.1	2.0
LS94-2435	2.0	1.0	1.0	1.0
SS93-1917	2.0	1.0	1.1	1.3
SS93-4915	2.5	1.0	1.0	1.3
SS93-10616	3.0	1.0	1.1	1.8
SS94-11075	2.0	1.0	1.1	2.0
SS94-11114	2.0	1.0	1.0	1.3
U96-3123	1.5	1.0	1.0	1.0
V94-0186	1.5	1.0	1.0	1.0

PRELIMINARY TEST IVA, 1997

Strain	PLANT HEIGHT (inches)				
	Mean 8 Tests	Nashville IL	Urbana IL	Manhattan KS	Lexington KY
KS4694 (L)	34	26	39	44	44
Macon (III)	29	23	36	34	33
Stressland (IV)	35	29	41	40	40
C1945	35	28	42	41	42
C1947	24	19	30	30	27
C1956	30	26	39	36	34
C1958	32	29	37	40	37
HC92-1747	34	29	41	40	36
HC92-1834	33	28	37	36	40
HC93-2297	36	31	42	43	44
HC93-2356	34	29	42	41	39
HC93-2358	34	28	40	45	37
HC93-2370	32	26	37	38	40
HC93-2403	31	28	34	38	35
HC93-2457	38	32	44	48	48
HC93-2482	35	29	42	45	43
HC93-2546	34	26	39	42	37
HC93-2591	38	31	43	47	43
HC93-2690	33	28	42	38	38
LG93-7792	30	26	33	35	35
LN92-10518	35	29	43	44	44
LN93-1178	35	29	39	47	40
LN93-10913	28	24	32	33	36
LN94-2888	30	25	36	36	34
LS94-0466	34	31	40	40	44
LS94-1091	28	24	35	34	30
LS94-1165	35	29	38	42	40
LS94-1375	35	29	37	45	44
LS94-2435	32	28	37	37	39
SS93-1917	36	30	44	41	46
SS93-4915	35	29	37	41	40
SS93-10616	38	33	45	45	45
SS94-11075	34	29	41	39	41
SS94-11114	32	27	38	38	38
U96-3123	30	23	36	36	37
V94-0186	28	24	33	32	33

PRELIMINARY TEST IVA, 1997

PLANT HEIGHT (inches)

Strain	Queenstown MD	Columbia MO	Mt. Orab OH	South Charleston OH
KS4694 (L)	30	25	27	37
Macon (III)	27	23	21	31
Stressland (IV)	33	28	30	39
C1945	30	32	28	38
C1947	19	19	17	28
C1956	26	21	24	32
C1958	30	24	25	33
HC92-1747	33	28	27	36
HC92-1834	35	26	26	34
HC93-2297	34	28	29	39
HC93-2356	30	26	28	35
HC93-2358	30	28	29	36
HC93-2370	31	26	23	33
HC93-2403	30	28	25	33
HC93-2457	35	29	32	35
HC93-2482	33	27	28	35
HC93-2546	34	27	27	39
HC93-2591	35	32	30	39
HC93-2690	31	24	24	35
LG93-7792	28	22	28	34
LN92-10518	31	25	27	38
LN93-1178	32	26	30	39
LN93-10913	26	22	22	32
LN94-2888	29	23	25	35
LS94-0466	32	22	28	34
LS94-1091	25	23	21	31
LS94-1165	33	27	33	37
LS94-1375	32	27	30	39
LS94-2435	29	26	24	32
SS93-1917	29	27	31	38
SS93-4915	30	30	30	39
SS93-10616	33	31	34	40
SS94-11075	28	25	28	38
SS94-11114	28	24	26	33
U96-3123	26	21	23	36
V94-0186	24	21	23	33

PRELIMINARY TEST IVA, 1997

Strain	SEED QUALITY (score)				
	Mean 8 Tests	Nashville IL	Urbana IL	Manhattan KS	Lexington KY
KS4694 (L)	1.5	1.0	1.2	3.0	1.0
Macon (III)	1.4	1.0	1.4	3.0	1.0
Stressland (IV)	1.3	1.0	1.2	2.0	1.0
C1945	2.0	2.0	1.8	3.0	2.0
C1947	1.9	3.0	1.2	3.0	2.0
C1956	1.7	2.0	1.2	3.0	2.0
C1958	2.0	2.0	1.4	4.0	2.0
HC92-1747	1.5	1.0	1.4	3.0	1.0
HC92-1834	1.5	1.0	1.2	2.0	2.0
HC93-2297	2.0	2.0	1.5	3.0	2.0
HC93-2356	1.6	2.0	1.2	3.0	1.0
HC93-2358	1.7	2.0	1.2	4.0	1.0
HC93-2370	1.8	1.0	1.4	4.0	1.0
HC93-2403	1.6	1.0	1.4	3.0	1.0
HC93-2457	2.3	3.0	1.5	4.0	2.0
HC93-2482	2.2	2.0	1.4	4.0	2.0
HC93-2546	1.4	1.0	1.4	2.0	1.0
HC93-2591	1.5	1.0	1.4	3.0	1.0
HC93-2690	2.1	3.0	1.4	3.0	2.0
LG93-7792	1.7	1.0	1.2	3.0	2.0
LN92-10518	1.5	1.0	1.5	3.0	1.0
LN93-1178	2.0	2.0	1.5	4.0	1.0
LN93-10913	1.8	2.0	1.4	4.0	2.0
LN94-2888	1.7	1.0	1.4	3.0	2.0
LS94-0466	1.4	1.0	1.4	2.0	1.0
LS94-1091	1.6	2.0	1.2	3.0	1.0
LS94-1165	1.5	1.0	1.2	4.0	1.0
LS94-1375	1.6	1.0	1.2	4.0	1.0
LS94-2435	1.6	1.0	1.2	3.0	2.0
SS93-1917	1.7	1.0	1.5	4.0	1.0
SS93-4915	1.9	1.0	1.4	4.0	1.0
SS93-10616	1.6	1.0	1.5	2.0	1.0
SS94-11075	1.4	1.0	1.4	2.0	1.0
SS94-11114	1.7	1.0	1.4	3.0	1.0
U96-3123	1.5	2.0	1.5	3.0	1.0
V94-0186	2.0	2.0	1.2	4.0	2.0

PRELIMINARY TEST IVA, 1997

SEED QUALITY (score)

Strain	Queenstown MD	Columbia MO	Mt. Orab OH	South Charleston OH
KS4694 (L)	1.0	1.0	1.0	2.5
Macon (III)	1.0	1.0	1.1	2.0
Stressland (IV)	1.0	1.0	1.0	1.8
C1945	1.5	2.0	1.2	2.5
C1947	1.0	1.0	1.0	2.8
C1956	1.0	1.0	1.0	2.0
C1958	1.8	2.0	1.0	2.0
HC92-1747	1.3	1.0	1.0	2.0
HC92-1834	1.3	1.0	1.0	2.5
HC93-2297	1.8	2.0	1.4	2.5
HC93-2356	1.5	1.0	1.0	2.0
HC93-2358	1.3	1.0	1.0	2.0
HC93-2370	1.3	2.0	1.0	2.5
HC93-2403	1.3	2.0	1.0	2.0
HC93-2457	2.0	2.0	1.0	2.5
HC93-2482	1.8	2.0	1.2	3.0
HC93-2546	1.0	2.0	1.0	2.0
HC93-2591	1.5	1.0	1.0	2.0
HC93-2690	1.8	2.0	1.2	2.5
LG93-7792	1.3	2.0	1.0	1.8
LN92-10518	2.0	1.0	1.0	1.8
LN93-1178	1.5	2.0	1.0	3.0
LN93-10913	1.0	1.0	1.0	1.8
LN94-2888	1.0	2.0	1.0	2.0
LS94-0466	1.0	2.0	1.0	1.5
LS94-1091	1.3	1.0	1.0	2.0
LS94-1165	1.0	1.0	1.0	2.0
LS94-1375	1.0	1.0	1.4	2.0
LS94-2435	1.0	1.0	1.0	2.5
SS93-1917	1.5	2.0	1.0	1.5
SS93-4915	1.5	3.0	1.0	2.5
SS93-10616	1.0	3.0	1.0	2.0
SS94-11075	1.3	2.0	1.0	1.8
SS94-11114	1.5	2.0	1.0	2.5
U96-3123	1.0	1.0	1.0	1.5
V94-0186	1.5	2.0	1.0	2.0

PRELIMINARY TEST IVA, 1997

SEED SIZE (g/100)

Strain	Mean 8 Tests	Nashville IL	Urbana IL	Manhattan KS	Lexington KY
KS4694 (L)	17.3	17.3	17.2	18.5	16.9
Macon (III)	18.1	16.4	18.2	19.2	17.0
Stressland (IV)	14.5	13.9	15.0	16.1	12.7
C1945	18.7	15.3	19.0	19.1	16.9
C1947	17.8	16.3	16.8	18.6	15.4
C1956	16.7	15.1	14.9	18.2	15.2
C1958	19.2	17.5	18.5	20.3	17.2
HC92-1747	17.9	16.3	16.9	19.1	17.2
HC92-1834	15.1	13.7	15.0	15.9	14.4
HC93-2297	18.2	15.5	18.2	19.3	16.9
HC93-2356	14.7	14.4	15.2	14.8	13.8
HC93-2358	16.3	15.4	16.1	16.6	15.9
HC93-2370	14.8	15.5	13.8	15.3	13.5
HC93-2403	14.5	13.4	14.3	16.4	12.5
HC93-2457	18.0	17.1	18.2	19.2	16.2
HC93-2482	18.6	19.6	17.6	16.7	16.9
HC93-2546	15.3	14.5	14.9	15.4	13.9
HC93-2591	15.3	13.9	14.4	16.9	14.7
HC93-2690	17.4	16.6	16.5	17.5	16.0
LG93-7792	16.1	15.7	16.4	17.3	14.4
LN92-10518	14.6	13.5	14.4	14.7	13.7
LN93-1178	21.5	23.6	22.1	16.7	18.2
LN93-10913	15.6	17.0	16.2	16.2	13.7
LN94-2888	16.1	14.8	16.0	17.0	13.7
LS94-0466	13.2	12.1	12.3	13.4	13.2
LS94-1091	16.6	17.0	16.3	17.2	14.4
LS94-1165	17.0	16.6	16.1	16.2	15.0
LS94-1375	19.6	19.7	18.9	19.3	18.2
LS94-2435	16.6	16.4	16.1	16.9	14.8
SS93-1917	16.4	15.3	17.2	16.8	14.8
SS93-4915	17.6	15.2	18.9	19.3	16.7
SS93-10616	18.5	16.8	19.8	18.3	16.8
SS94-11075	16.4	15.3	17.3	17.9	15.1
SS94-11114	16.2	15.2	16.2	15.6	13.4
U96-3123	17.6	16.6	18.7	18.2	16.8
V94-0186	17.1	16.1	17.0	18.8	14.8

PRELIMINARY TEST IVA, 1997

Strain	SEED SIZE (g/100)			
	Queenstown MD	Columbia MO	Mt. Orab OH	South Charleston OH
KS4694 (L)	20.4	14.6	16.7	16.8
Macon (III)	21.5	14.7	18.1	19.5
Stressland (IV)	16.8	13.1	13.5	15.0
C1945	22.1	16.6	20.3	20.6
C1947	20.3	18.3	18.1	18.8
C1956	20.6	16.8	16.3	16.8
C1958	21.9	18.0	20.2	20.3
HC92-1747	22.4	16.8	17.0	17.8
HC92-1834	18.0	13.9	14.4	15.2
HC93-2297	22.1	15.3	18.3	19.7
HC93-2356	18.7	11.4	14.2	15.4
HC93-2358	19.3	13.3	16.6	17.3
HC93-2370	17.1	13.2	14.8	14.8
HC93-2403	17.9	11.5	14.5	15.5
HC93-2457	21.0	17.4	17.9	17.2
HC93-2482	22.6	17.6	19.0	18.7
HC93-2546	19.0	13.1	14.7	16.9
HC93-2591	18.8	13.9	14.6	15.5
HC93-2690	20.5	16.0	18.0	17.9
LG93-7792	20.5	12.8	15.6	16.3
LN92-10518	18.5	13.9	13.6	14.6
LN93-1178	27.2	20.3	22.4	21.7
LN93-10913	18.5	13.7	14.7	14.4
LN94-2888	20.0	15.9	15.2	15.9
LS94-0466	16.8	12.0	12.0	13.5
LS94-1091	19.8	14.7	16.2	17.1
LS94-1165	20.5	18.2	16.4	17.3
LS94-1375	24.3	20.9	17.4	18.2
LS94-2435	20.5	16.6	15.4	16.2
SS93-1917	20.3	15.4	16.3	15.2
SS93-4915	20.6	16.2	16.3	17.7
SS93-10616	22.5	17.9	17.7	18.2
SS94-11075	19.5	15.9	14.7	15.8
SS94-11114	20.7	17.4	15.3	15.7
U96-3123	20.8	15.4	17.6	16.5
V94-0186	21.4	16.0	16.1	16.7

PRELIMINARY TEST IVA, 1997

Strain	PROTEIN (%)			
	Mean 3 Tests	Urbana IL	Lexington KY	Mt. Orab OH
KS4694 (L)	40.7	39.3	41.1	41.6
Macon (III)	40.1	38.4	39.4	42.6
Stressland (IV)	42.5	39.7	42.8	44.9
C1945	48.3	45.8	46.4	52.6
C1947	41.4	39.8	41.2	43.3
C1956	40.2	37.6	40.0	43.1
C1958	39.9	36.5	41.0	42.2
HC92-1747	40.0	39.7	38.1	42.2
HC92-1834	40.4	38.1	41.4	41.7
HC93-2297	41.2	38.8	40.9	43.9
HC93-2356	39.9	36.9	39.8	42.9
HC93-2358	41.4	40.0	41.2	43.1
HC93-2370	40.2	38.7	40.3	41.6
HC93-2403	40.2	38.5	40.2	41.8
HC93-2457	40.6	39.5	40.3	42.0
HC93-2482	41.9	41.2	41.6	42.8
HC93-2546	42.9	41.6	43.1	44.0
HC93-2591	42.7	40.8	43.5	43.8
HC93-2690	41.2	39.8	41.0	42.7
LG93-7792	41.1	39.0	41.2	43.1
LN92-10518	39.8	37.2	39.8	42.3
LN93-1178	42.4	40.7	42.1	44.4
LN93-10913	41.9	40.5	40.8	44.4
LN94-2888	40.8	38.7	40.5	43.3
LS94-0466	39.9	37.8	41.0	40.9
LS94-1091	42.3	40.5	41.7	44.8
LS94-1165	42.0	40.7	42.0	43.2
LS94-1375	42.1	41.3	42.0	43.0
LS94-2435	40.7	39.6	41.2	41.4
SS93-1917	41.0	40.0	39.9	43.2
SS93-4915	41.9	41.1	41.5	43.0
SS93-10616	41.3	40.5	41.4	42.1
SS94-11075	41.0	39.6	41.0	42.3
SS94-11114	41.5	40.0	41.6	42.8
U96-3123	41.6	40.1	41.4	43.3
V94-0186	40.6	39.2	39.4	43.2

PRELIMINARY TEST IVA, 1997

Strain	OIL (%)			
	Mean 3 Tests	Urbana IL	Lexington KY	Mt. Orab OH
KS4694 (L)	20.0	20.6	20.4	19.1
Macon (III)	20.5	20.8	21.1	19.5
Stressland (IV)	19.6	21.1	20.2	17.4
C1945	17.5	18.6	18.9	15.1
C1947	20.4	21.2	20.6	19.5
C1956	20.1	21.1	20.6	18.5
C1958	21.0	22.4	21.0	19.7
HC92-1747	20.8	21.5	21.6	19.2
HC92-1834	20.2	21.2	20.3	19.2
HC93-2297	20.3	21.3	20.7	19.0
HC93-2356	20.3	21.6	20.7	18.7
HC93-2358	20.0	20.9	20.4	18.7
HC93-2370	20.4	21.3	20.3	19.6
HC93-2403	20.6	21.5	20.8	19.5
HC93-2457	20.1	20.9	20.3	19.2
HC93-2482	20.1	20.1	20.6	19.6
HC93-2546	19.5	19.9	20.2	18.5
HC93-2591	19.4	19.8	19.5	18.9
HC93-2690	20.0	20.7	20.1	19.1
LG93-7792	19.3	21.0	18.8	18.0
LN92-10518	20.1	21.5	20.5	18.4
LN93-1178	19.0	20.0	19.1	17.8
LN93-10913	19.2	20.1	20.1	17.3
LN94-2888	20.2	21.3	20.6	18.7
LS94-0466	20.1	21.1	20.3	18.9
LS94-1091	19.0	19.7	19.6	17.6
LS94-1165	19.8	20.8	20.0	18.6
LS94-1375	19.5	20.6	19.7	18.2
LS94-2435	20.0	21.0	20.1	19.0
SS93-1917	20.0	21.0	20.2	18.8
SS93-4915	20.6	20.8	21.0	20.0
SS93-10616	19.3	20.0	19.7	18.3
SS94-11075	20.5	21.1	20.9	19.5
SS94-11114	19.8	21.0	19.8	18.7
U96-3123	19.3	20.0	19.9	17.9
V94-0186	20.3	21.1	20.5	19.2

Preliminary Test IVB

	Strain	Parentage	Generation Composited	Unique Traits
1.	KS4694 (L)	Sherman x Toano	F5	
2.	Macon (III)	Sherman x Resnik	F5	
3.	Stressland (IV)	HC80-1946 x Asgrow A3127	F5	
4.	K1377	Pioneer 9341 x KS4694	F5	
5.	K1378	KS4694 x Asgrow A3935	F5	
6.	K1379	Pioneer 9341 x KS4694	F5	
7.	K1380	Pioneer 9341 x KS4694	F5	
8.	K1381	Jack x Flyer	F5	
9.	K1382	Jack x Flyer	F5	
10.	K1383	Jack x Flyer	F5	
11.	K1384	Pioneer 9341 x KS4694	F5	
12.	K1385	Delsoy 4210 x Asgrow A3935	F5	
13.	K1386	Flyer x Corsica	F5	
14.	Ky94-1501	Clifford x CX458	F5	
15.	Ky94-1502	Clifford x CX458	F5	
16.	Ky94-1505	Clifford x CX458	F5	
17.	Ky94-2305	Pioneer 9461 x Pioneer 9501	F5	
18.	Ky94-2325	Pioneer 9461 x Pioneer 9501	F5	
19.	Md94-5451	Spencer x Corsica	F5	
20.	Md94-5457	Spencer x Corsica	F5	
21.	Md94-5463	Spencer x Corsica	F5	
22.	Ripley (dt1)	Hodgson x V68-1034	F5	
23.	C1957	HS88-4909 x HC85-2206	F5	dt1
24.	HC93-622	HC78-676BC x Elf BC	F5	dt1
25.	HC93-941	HC85-6723 x HC78-676BC	F5	dt1
26.	HC93-979	Charleston x Hoyt BC	F5	dt1
27.	HC93-1086	Charleston x HC78-676BC	F5	dt1
28.	HC93-1461	Charleston x Flyer	F5	dt1
29.	HC93-1556	HC84-2556 x HC78-676BC	F5	dt1
30.	HC93-1558	HC84-2556 x HC78-676BC	F5	dt1
31.	HC93-1584	Sprite 87 x H84-2568	F5	dt1
32.	HC93-1835	Hutcheson x Pixie BC	F5	dt1
33.	HC93-2084	Hutcheson x HC74-634RE BC	F5	dt1
34.	HC94-126PR	H85-6723(4) x PI 86050	BC3F2	dt1 Rps1-k
35.	HC94-422	Sprite 87 x HC85-6577	F5	dt1
36.	HC95-15MB	Hobbit 87 x HC83-123-9	F12	dt1, Insect

PRELIMINARY TEST IVB, 1997

DISEASE DATA						
Strain	Descriptive Code	<u>Shattering</u>	<u>PR</u>	<u>Hard Seed</u>	<u>PS</u>	<u>P&SB</u>
		Score	Lafayette	Lafayette	a	n
		Manhattan	Race	%	%	%
			7			
KS4694 (L)	WGBrSYBfepI	2.0	S	0	4	0
Macon (III)	WTTnSYBlEpI	2.0	S	0	28	0
Stressland (IV)	PTTnDYBlHI	2.0	S	0	4	0
K1377	PGTnSYBfEpI	2.0	S	0	6	0
K1378	WTBrSYBlepI	2.0	S	0	4	0
K1379	PGBrSYIBepI	2.0	S	0	8	0
K1380	PGTnIYIbepI	2.0	S	0	8	2
K1381	PGTnDYIbHI	2.0	S	0	18	0
K1382	P+WGTnDYBfepI	2.0	S	0	4	0
K1383	P+WTBrDYBrEpI	2.0	S	0	8	2
K1384	PGBrSYBfEpI	2.0	S	0	8	0
K1385	WTBrSYBlHI	2.0	S	0	4	0
K1386	PTTnDYLBlepI	2.0	R	0	14	0
Ky94-1501	WTBrSYBlepI	2.0	S	0	6	2
Ky94-1502	PTBrSYLBlepI	2.0	S	0	16	0
Ky94-1505	PTBrSYBlepI	2.0	S	0	2	0
Ky94-2305	WTBrSYBlEpI	2.0	S	0	8	0
Ky94-2325	WTBrSYBlHI	2.0	S	0	4	0
Md94-5451	PTBrDYBlEpI	2.0	S	0	2	0
Md94-5457	WTTnDYBrEpI	2.0	S	0	18	4
Md94-5463	PTBrIYBlEpI	2.0	S	0	14	4
Ripley (dt1)	PGTnIYBfEpI	2.0	S	0	0	0
C1957	PG+TBrSYBrEpD	2.0	R	0	4	0
HC93-622	PTTnSYBlepD	2.0	R	0	20	0
HC93-941	WTBrSYBlepD	2.0	R	0	28	0
HC93-979	PTTnSYBlEpD	2.0	R	0	6	0
HC93-1086	PTBrSYBrEpD	2.0	R	0	30	0
HC93-1461	PTTnDYBlEpD	2.0	R	0	16	0
HC93-1556	PTBrSYBrepD	2.0	R	0	24	0
HC93-1558	PTBrIYBrepD	2.0	R	0	22	0
HC93-1584	WTTnDYBlepD	2.0	S	0	10	0
HC93-1835	P+WTTnDYBrepD	2.0	R	0	16	0
HC93-2084	WTTnSYBlEpD	2.0	S	0	2	0
HC94-126PR	WTBrSYBrepD	2.0	S	0	22	0
HC94-422	WTTnDYBlepD	2.0	S	0	10	0
HC95-15MB	PTTnDYBlepD	2.0	R	0	0	0

PRELIMINARY TEST IVB, 1997

REGIONAL SUMMARY

No. of Tests Strain	Yield	Rank	Maturity	Lodging	Plant	Seed	Seed	<u>Composition</u>	
	8 bu/a	8 No.	8 Date	8 Score	8 In.	8 Score	8 g/100	3 %	3 %
KS4694 (L)	58.2	14	4.1	1.5	33	1.5	17.4	41.1	19.8
Macon (III)	58.2	14	-3.6	1.2	29	1.8	18.8	40.2	20.4
Stressland (IV)	55.9	28	10/2	1.7	36	1.2	14.8	43.0	19.5
K1377	62.0	1	-0.3	1.4	33	1.7	15.8	41.1	19.9
K1378	60.2	3	2.6	1.7	35	1.5	17.1	40.7	19.9
K1379	59.5	5	1.6	1.5	33	1.4	17.0	41.6	19.7
K1380	59.2	7	-0.8	1.5	32	1.7	15.6	41.9	19.3
K1381	60.9	2	-0.6	1.6	31	2.0	16.4	41.9	19.8
K1382	58.5	11	-2.4	1.5	31	1.6	14.5	40.2	20.0
K1383	56.2	25	0.1	1.5	29	1.6	15.6	41.5	20.3
K1384	58.0	17	1.5	1.5	32	1.6	16.2	40.6	20.1
K1385	59.1	9	-1.0	1.4	32	1.7	16.7	40.8	20.0
K1386	59.5	5	-1.3	1.7	34	1.7	17.8	41.7	19.9
Ky94-1501	60.2	3	0.0	1.5	33	1.7	17.6	42.0	19.7
Ky94-1502	56.8	21	2.8	1.6	36	1.6	17.6	41.2	20.6
Ky94-1505	58.4	13	-0.3	1.4	31	1.6	18.0	42.0	19.3
Ky94-2305	54.0	33	2.5	1.7	34	1.4	17.3	42.2	20.0
Ky94-2325	59.2	7	5.1	1.8	35	1.7	15.9	41.4	19.9
Md94-5451	56.8	21	-0.6	1.6	36	1.8	17.1	41.5	20.1
Md94-5457	55.8	29	-1.6	1.4	32	1.7	16.3	41.8	19.8
Md94-5463	59.1	9	-0.5	1.5	31	1.7	20.4	41.2	19.8
Ripley (dt1)	51.4	35	-1.4	1.4	25	1.2	14.8	40.4	19.4
C1957	57.3	20	-2.1	1.4	25	2.1	19.0	39.9	21.0
HC93-622	55.0	31	-2.4	1.3	22	1.9	17.0	41.9	20.0
HC93-941	58.2	14	-1.4	1.4	22	2.1	18.4	41.8	19.6
HC93-979	58.5	11	-2.1	1.3	23	1.5	15.8	42.8	19.3
HC93-1086	57.7	18	-2.5	1.5	22	2.0	16.2	41.9	19.7
HC93-1461	53.8	34	-3.5	1.2	21	1.4	14.1	41.6	19.1
HC93-1556	54.7	32	-3.3	1.3	20	1.7	16.2	42.2	19.8
HC93-1558	57.6	19	-3.3	1.2	22	1.4	16.5	42.4	19.2
HC93-1584	56.0	27	-0.9	1.5	24	1.5	16.5	41.3	20.1
HC93-1835	56.2	25	-4.1	1.2	21	1.9	16.4	40.8	20.3
HC93-2084	55.2	30	-2.9	1.5	24	1.8	17.3	42.1	19.3
HC94-126PR	56.6	23	-2.5	1.3	25	1.7	18.5	41.9	20.6
HC94-422	56.5	24	-1.8	1.3	23	1.6	19.1	41.8	20.1
HC95-15MB	49.7	36	-2.0	1.3	20	2.3	14.6	43.2	18.9

140.8 Days After Planting

PRELIMINARY TEST IVB, 1997

Strain	YIELD (bu/a)				
	Mean 8 Tests	Nashville IL	Urbana IL	Manhattan KS	Lexington KY
KS4694 (L)	58.2	47.3	59.5	55.2	63.3
Macon (III)	58.2	45.8	67.1	54.6	67.5
Stressland (IV)	55.9	46.9	62.8	54.0	61.9
K1377	62.0	49.7	65.3	61.8	65.2
K1378	60.2	51.2	64.2	62.2	59.6
K1379	59.5	54.2	66.6	50.6	60.8
K1380	59.2	48.9	62.0	56.8	66.3
K1381	60.9	44.8	67.0	59.5	67.0
K1382	58.5	53.7	58.7	58.9	59.9
K1383	56.2	46.2	59.6	60.5	61.7
K1384	58.0	46.2	62.3	59.1	66.7
K1385	59.1	48.4	63.2	50.6	64.2
K1386	59.5	52.2	64.2	56.3	61.3
Ky94-1501	60.2	51.6	61.6	59.6	72.3
Ky94-1502	56.8	43.2	65.7	53.2	62.5
Ky94-1505	58.4	41.2	66.8	58.1	66.9
Ky94-2305	54.0	42.8	54.6	58.7	58.9
Ky94-2325	59.2	53.7	64.1	59.9	63.4
Md94-5451	56.8	49.4	61.5	58.3	62.0
Md94-5457	55.8	39.8	56.8	53.4	68.2
Md94-5463	59.1	40.4	64.8	55.8	68.2
Ripley (dt1)	51.4	36.7	57.2	50.7	61.4
C1957	57.3	43.9	61.8	50.3	62.5
HC93-622	55.0	38.2	63.9	52.0	62.1
HC93-941	58.2	41.8	64.7	46.8	68.3
HC93-979	58.5	40.6	65.3	48.6	72.3
HC93-1086	57.7	43.8	60.1	49.7	72.9
HC93-1461	53.8	35.6	58.2	44.5	68.3
HC93-1556	54.7	39.5	61.4	45.9	69.5
HC93-1558	57.6	41.8	65.6	49.9	71.1
HC93-1584	56.0	44.6	59.4	52.8	67.0
HC93-1835	56.2	40.8	66.8	46.1	63.0
HC93-2084	55.2	42.3	59.3	45.7	68.4
HC94-126PR	56.6	39.6	64.7	47.4	70.0
HC94-422	56.5	41.8	64.7	52.1	63.2
HC95-15MB	49.7	35.4	63.3	42.1	58.6
C.V. (%)		11.3	5.4	6.1	4.9
L.S.D. (5%)		10.0	6.9	6.6	5.4
Row Sp. (In.)		30	30	30	30
Rows/Plot		4	4	4	4
Reps		2	2	2	2

PRELIMINARY TEST IVB, 1997

Strain	YIELD (bu/a)			
	Queenstown MD	Columbia MO	Mt. Orab OH	South Charleston OH
KS4694 (L)	66.8	60.6	50.7	61.9
Macon (III)	60.6	42.9	54.4	72.4
Stressland (IV)	58.8	49.7	49.7	63.2
K1377	67.7	61.1	49.2	75.6
K1378	64.9	48.7	62.5	68.1
K1379	66.1	53.5	49.3	74.9
K1380	66.4	59.3	48.3	65.4
K1381	66.6	63.3	50.5	68.3
K1382	63.4	60.5	50.9	62.1
K1383	63.7	46.7	44.6	66.2
K1384	63.1	50.0	48.4	68.3
K1385	62.6	64.5	54.6	64.8
K1386	55.7	53.6	57.5	75.1
Ky94-1501	61.1	55.6	48.6	71.1
Ky94-1502	61.8	46.4	53.7	68.0
Ky94-1505	60.8	54.6	52.5	66.0
Ky94-2305	60.7	51.9	43.0	61.0
Ky94-2325	62.0	64.3	40.9	65.3
Md94-5451	61.7	50.5	43.1	68.0
Md94-5457	62.6	51.3	42.5	71.9
Md94-5463	65.4	49.9	54.3	74.1
Ripley (dt1)	61.9	32.3	43.4	67.5
C1957	58.9	41.5	61.3	78.5
HC93-622	56.4	43.0	51.5	72.5
HC93-941	65.6	45.1	59.4	73.5
HC93-979	64.3	34.5	59.8	82.8
HC93-1086	58.9	35.7	61.5	79.2
HC93-1461	56.9	33.6	57.7	75.2
HC93-1556	60.4	28.9	58.6	73.7
HC93-1558	63.3	34.9	57.9	76.0
HC93-1584	57.6	38.8	51.8	76.1
HC93-1835	60.8	41.6	54.0	76.1
HC93-2084	60.4	39.1	50.7	75.9
HC94-126PR	50.5	45.3	57.7	77.7
HC94-422	58.2	40.9	49.6	81.1
HC95-15MB	50.2	42.8	42.5	62.9
C.V. (%)	6.0	7.9	9.7	5.1
L.S.D. (5%)	7.5	7.7	10.1	7.4
Row Sp. (In.)	30	30	15	7.5
Rows/Plot	4	4	6	8
Reps	2	2	2	2

PRELIMINARY TEST IVB, 1997

YIELD RANK

Strain	Yield Rank	Nashville IL	Urbana IL	Manhattan KS	Lexington KY
KS4694 (L)	14	11	29	15	21
Macon (III)	14	15	1	16	12
Stressland (IV)	28	12	20	17	28
K1377	1	7	8	2	18
K1378	3	6	14	1	34
K1379	5	1	5	24	32
K1380	7	9	22	12	17
K1381	2	16	2	6	13
K1382	11	2	32	8	33
K1383	25	13	28	3	29
K1384	17	13	21	7	16
K1385	9	10	19	24	19
K1386	5	4	14	13	31
Ky94-1501	3	5	24	5	2
Ky94-1502	21	20	6	19	24
Ky94-1505	13	26	3	11	15
Ky94-2305	33	21	36	9	35
Ky94-2325	7	2	16	4	20
Md94-5451	21	8	25	10	27
Md94-5457	29	30	35	18	10
Md94-5463	9	29	10	14	10
Ripley (dt1)	35	34	34	23	30
C1957	20	18	23	26	24
HC93-622	31	33	17	22	26
HC93-941	14	24	11	31	8
HC93-979	11	28	8	29	2
HC93-1086	18	19	27	28	1
HC93-1461	34	35	33	35	8
HC93-1556	32	32	26	33	6
HC93-1558	19	24	7	27	4
HC93-1584	27	17	30	20	13
HC93-1835	25	27	3	32	23
HC93-2084	30	22	31	34	7
HC94-126PR	23	31	11	30	5
HC94-422	24	23	11	21	22
HC95-15MB	36	36	18	36	36

PRELIMINARY TEST IVB, 1997

Strain	YIELD RANK			
	Queenstown MD	Columbia MO	Mt. Orab OH	South Charleston OH
KS4694 (L)	2	5	20	35
Macon (III)	24	24	12	18
Stressland (IV)	29	17	23	32
K1377	1	4	26	10
K1378	8	18	1	23
K1379	5	11	25	13
K1380	4	7	29	29
K1381	3	3	22	21
K1382	11	6	19	34
K1383	10	19	30	27
K1384	13	15	28	21
K1385	14	1	11	31
K1386	34	10	10	12
Ky94-1501	20	8	27	20
Ky94-1502	18	20	15	24
Ky94-1505	21	9	16	28
Ky94-2305	23	12	33	36
Ky94-2325	16	2	36	30
Md94-5451	19	14	32	24
Md94-5457	14	13	34	19
Md94-5463	7	16	13	14
Ripley (dt1)	17	35	31	26
C1957	27	27	3	4
HC93-622	33	23	18	17
HC93-941	6	22	5	16
HC93-979	9	33	4	1
HC93-1086	27	31	2	3
HC93-1461	32	34	8	11
HC93-1556	25	36	6	15
HC93-1558	12	32	7	8
HC93-1584	31	30	17	6
HC93-1835	21	26	14	6
HC93-2084	25	29	20	9
HC94-126PR	35	21	8	5
HC94-422	30	28	24	2
HC95-15MB	36	25	34	33

PRELIMINARY TEST IVB, 1997

Strain	Mean 8 Tests	MATURITY (date)			
		Nashville IL	Urbana IL	Manhattan KS	Lexington KY
KS4694 (L)	4.1	1	6	5	5
Macon (III)	-3.6	-2	-6	3	-6
Stressland (IV)	10/2	09/26	10/04	10/01	09/25
K1377	-0.3	-1	-1	2	4
K1378	2.6	0	1	7	4
K1379	1.6	1	0	7	4
K1380	-0.8	-2	-1	0	2
K1381	-0.6	-2	-3	7	0
K1382	-2.4	0	-5	4	-3
K1383	0.1	0	-1	3	3
K1384	1.5	1	2	4	4
K1385	-1.0	-2	-3	3	-1
K1386	-1.3	2	-2	5	-2
Ky94-1501	0.0	0	-3	5	4
Ky94-1502	2.8	0	2	7	4
Ky94-1505	-0.3	-2	-5	7	2
Ky94-2305	2.5	2	1	5	4
Ky94-2325	5.1	4	5	7	5
Md94-5451	-0.6	-1	-1	3	-1
Md94-5457	-1.6	-2	-4	5	0
Md94-5463	-0.5	0	-3	4	1
Ripley (dt1)	-1.4	-1	-3	0	1
C1957	-2.1	0	-5	7	-2
HC93-622	-2.4	-2	-5	3	-3
HC93-941	-1.4	0	-4	5	-2
HC93-979	-2.1	-2	-2	4	-3
HC93-1086	-2.5	-2	-6	3	-3
HC93-1461	-3.5	-6	-6	3	-3
HC93-1556	-3.3	-2	-5	2	-2
HC93-1558	-3.3	-2	-6	3	-4
HC93-1584	-0.9	0	-5	5	0
HC93-1835	-4.1	-3	-6	1	-4
HC93-2084	-2.9	0	-5	2	-1
HC94-126PR	-2.5	-2	-5	2	-4
HC94-422	-1.8	0	-3	4	-3
HC95-15MB	-2.0	-1	-1	2	-3
Date Planted	05/14	05/13	04/29	05/20	05/13
Days to Mature	140.8	136	158	134	135

PRELIMINARY TEST IVB, 1997

MATURITY (date)

Strain	Queenstown	Columbia	Mt. Orab	South Charleston
	MD	MO	OH	OH
KS4694 (L)	5	5	2	4
Macon (III)	0	-4	-6	-8
Stressland (IV)	10/11	09/28	10/04	10/08
K1377	-2	2	-2	-4
K1378	5	2	2	0
K1379	3	-1	1	-2
K1380	-2	1	-2	-2
K1381	0	0	-2	-5
K1382	-2	-3	-4	-6
K1383	2	2	-3	-5
K1384	0	1	-2	2
K1385	4	-2	-3	-4
K1386	-2	-5	-3	-3
Ky94-1501	2	-1	-2	-5
Ky94-1502	5	3	-1	2
Ky94-1505	4	2	-4	-6
Ky94-2305	2	4	1	1
Ky94-2325	4	5	4	7
Md94-5451	3	-2	-2	-4
Md94-5457	-2	-3	-3	-4
Md94-5463	5	-2	-4	-5
Ripley (dt1)	1	-5	-2	-2
C1957	1	-6	-4	-8
HC93-622	4	-6	-3	-7
HC93-941	3	-6	-1	-6
HC93-979	0	-5	-3	-6
HC93-1086	3	-5	-3	-7
HC93-1461	0	-6	-3	-7
HC93-1556	-2	-6	-4	-7
HC93-1558	-1	-6	-3	-7
HC93-1584	2	-4	-1	-4
HC93-1835	-4	-6	-4	-7
HC93-2084	-4	-5	-4	-6
HC94-126PR	2	-5	-2	-6
HC94-422	1	-6	-3	-4
HC95-15MB	-3	-3	-2	-5
Date Planted	06/06	05/06	05/21	05/06
Days to Mature	127	145	136	155

PRELIMINARY TEST IVB, 1997

Strain	LODGING (score)				
	Mean 8 Tests	Nashville IL	Urbana IL	Manhattan KS	Lexington KY
KS4694 (L)	1.5	1.0	1.8	1.0	2.3
Macon (III)	1.2	1.0	1.3	1.0	1.3
Stressland (IV)	1.7	1.0	2.3	1.0	2.3
K1377	1.4	1.0	2.0	1.0	1.8
K1378	1.7	1.0	2.0	1.0	2.8
K1379	1.5	1.0	2.0	1.0	2.5
K1380	1.5	1.0	2.0	1.0	1.8
K1381	1.6	1.0	1.8	1.0	2.8
K1382	1.5	1.0	2.3	1.0	2.0
K1383	1.5	1.0	2.3	1.0	2.3
K1384	1.5	1.0	2.0	1.0	1.8
K1385	1.4	1.0	1.8	1.0	2.0
K1386	1.7	1.0	2.5	1.0	1.8
Ky94-1501	1.5	1.0	1.8	1.0	2.0
Ky94-1502	1.6	1.0	2.5	1.0	2.0
Ky94-1505	1.4	1.0	1.5	1.0	2.0
Ky94-2305	1.7	1.0	1.8	1.0	2.5
Ky94-2325	1.8	1.0	2.0	1.0	2.8
Md94-5451	1.6	1.0	2.5	1.0	1.8
Md94-5457	1.4	1.0	1.8	1.0	1.5
Md94-5463	1.5	1.0	1.8	1.0	2.3
Ripley (dt1)	1.4	1.0	1.5	1.0	1.8
C1957	1.4	1.0	1.3	1.0	1.8
HC93-622	1.3	1.0	1.5	1.0	1.3
HC93-941	1.4	1.0	1.8	1.0	1.5
HC93-979	1.3	1.0	1.5	1.0	1.5
HC93-1086	1.5	1.0	1.8	1.0	2.5
HC93-1461	1.2	1.0	1.0	1.0	1.5
HC93-1556	1.3	1.0	1.0	1.0	1.3
HC93-1558	1.2	1.0	1.0	1.0	1.0
HC93-1584	1.5	1.0	1.5	1.0	2.0
HC93-1835	1.2	1.0	1.0	1.0	1.5
HC93-2084	1.5	1.0	1.3	1.0	2.8
HC94-126PR	1.3	1.0	1.8	1.0	1.3
HC94-422	1.3	1.0	1.5	1.0	1.3
HC95-15MB	1.3	1.0	1.0	1.0	2.8

PRELIMINARY TEST IVB, 1997

LODGING (score)

Strain	Queenstown	Columbia	Mt. Orab	South Charleston
	MD	MO	OH	OH
KS4694 (L)	2.0	1.0	1.0	1.8
Macon (III)	2.0	1.0	1.0	1.0
Stressland (IV)	2.8	1.0	1.1	2.0
K1377	2.0	1.0	1.0	1.5
K1378	2.8	1.0	1.3	1.8
K1379	2.0	1.0	1.0	1.5
K1380	2.3	1.0	1.0	1.5
K1381	2.3	1.0	1.0	1.5
K1382	2.0	1.0	1.0	1.8
K1383	2.0	1.0	1.0	1.3
K1384	2.0	1.0	1.0	2.0
K1385	2.0	1.0	1.0	1.5
K1386	3.0	1.0	1.0	2.3
Ky94-1501	2.5	1.0	1.0	1.5
Ky94-1502	2.0	1.0	1.0	2.5
Ky94-1505	2.0	1.0	1.0	1.8
Ky94-2305	2.0	2.0	1.0	2.3
Ky94-2325	2.3	2.0	1.1	2.0
Md94-5451	2.8	1.0	1.0	1.8
Md94-5457	2.3	1.0	1.0	1.5
Md94-5463	2.0	1.0	1.0	1.5
Ripley (dt1)	1.5	1.0	1.0	2.0
C1957	2.8	1.0	1.0	1.0
HC93-622	2.3	1.0	1.0	1.0
HC93-941	2.3	1.0	1.0	1.3
HC93-979	2.0	1.0	1.0	1.3
HC93-1086	2.3	1.0	1.0	1.5
HC93-1461	2.3	1.0	1.0	1.0
HC93-1556	2.5	1.0	1.0	1.5
HC93-1558	2.3	1.0	1.0	1.0
HC93-1584	2.8	1.0	1.0	1.8
HC93-1835	2.0	1.0	1.0	1.0
HC93-2084	2.5	1.0	1.0	1.5
HC94-126PR	2.3	1.0	1.0	1.3
HC94-422	2.0	1.0	1.0	1.3
HC95-15MB	1.8	1.0	1.0	1.0

PRELIMINARY TEST IVB, 1997

Strain	Mean 8 Tests	PLANT HEIGHT (inches)			
		Nashville IL	Urbana IL	Manhattan KS	Lexington KY
KS4694 (L)	33	26	38	39	42
Macon (III)	29	24	36	32	34
Stressland (IV)	36	30	39	39	42
K1377	33	25	38	35	41
K1378	35	30	38	38	43
K1379	33	27	40	35	39
K1380	32	27	41	28	39
K1381	31	24	37	31	37
K1382	31	27	37	35	39
K1383	29	25	35	29	35
K1384	32	25	38	36	38
K1385	32	29	39	36	39
K1386	34	30	37	37	41
Ky94-1501	33	29	39	36	41
Ky94-1502	36	29	44	32	48
Ky94-1505	31	26	36	32	34
Ky94-2305	34	26	40	39	43
Ky94-2325	35	29	40	38	42
Md94-5451	36	29	42	41	40
Md94-5457	32	23	38	34	39
Md94-5463	31	25	38	35	37
Ripley (dt1)	25	19	32	25	30
C1957	25	25	26	29	31
HC93-622	22	22	30	25	26
HC93-941	22	20	28	26	23
HC93-979	23	22	26	25	28
HC93-1086	22	21	28	25	27
HC93-1461	21	20	27	21	26
HC93-1556	20	18	26	22	24
HC93-1558	22	22	27	25	25
HC93-1584	24	22	27	26	28
HC93-1835	21	17	23	25	31
HC93-2084	24	22	27	24	35
HC94-126PR	25	21	32	28	31
HC94-422	23	22	27	26	27
HC95-15MB	20	18	23	21	25

PRELIMINARY TEST IVB, 1997

Strain	PLANT HEIGHT (inches)			
	Queenstown MD	Columbia MO	Mt. Orab OH	South Charleston OH
KS4694 (L)	28	26	27	38
Macon (III)	25	25	21	34
Stressland (IV)	33	30	30	41
K1377	28	28	29	38
K1378	30	27	32	39
K1379	30	28	27	39
K1380	28	28	27	36
K1381	29	26	25	35
K1382	26	26	26	32
K1383	23	23	25	33
K1384	27	26	25	38
K1385	27	29	26	34
K1386	35	27	31	36
Ky94-1501	31	26	29	36
Ky94-1502	33	28	30	41
Ky94-1505	30	28	27	37
Ky94-2305	30	30	27	36
Ky94-2325	32	34	32	36
Md94-5451	34	34	28	39
Md94-5457	32	28	27	36
Md94-5463	28	25	23	37
Ripley (dt1)	20	25	19	30
C1957	24	18	21	29
HC93-622	21	13	17	25
HC93-941	18	15	17	26
HC93-979	20	15	19	27
HC93-1086	18	14	19	25
HC93-1461	19	16	18	23
HC93-1556	19	14	16	24
HC93-1558	20	15	18	27
HC93-1584	23	20	16	28
HC93-1835	19	15	14	26
HC93-2084	20	17	17	30
HC94-126PR	21	19	18	27
HC94-422	20	17	17	27
HC95-15MB	17	15	15	23

PRELIMINARY TEST IVB, 1997

Strain	Mean 8 Tests	SEED QUALITY (score)			
		Nashville IL	Urbana IL	Manhattan KS	Lexington KY
KS4694 (L)	1.5	1.0	1.6	3.0	1.0
Macon (III)	1.8	1.0	1.2	4.0	2.0
Stressland (IV)	1.2	1.0	1.4	2.0	1.0
K1377	1.7	1.0	1.2	4.0	1.0
K1378	1.5	1.0	1.2	3.0	1.0
K1379	1.4	1.0	1.5	3.0	1.0
K1380	1.7	1.0	1.2	4.0	1.0
K1381	2.0	1.0	1.5	4.0	2.0
K1382	1.6	1.0	1.2	3.0	1.0
K1383	1.6	1.0	1.2	3.0	1.0
K1384	1.6	1.0	1.5	4.0	1.0
K1385	1.7	1.0	1.2	3.0	2.0
K1386	1.7	1.0	1.2	4.0	1.0
Ky94-1501	1.7	1.0	1.2	4.0	1.0
Ky94-1502	1.6	1.0	1.2	3.0	1.0
Ky94-1505	1.6	1.0	1.2	3.0	1.0
Ky94-2305	1.4	1.0	1.2	3.0	1.0
Ky94-2325	1.7	1.0	1.2	3.0	1.0
Md94-5451	1.8	1.0	1.2	3.0	2.0
Md94-5457	1.7	1.0	1.2	4.0	1.0
Md94-5463	1.7	1.0	1.2	4.0	1.0
Ripley (dt1)	1.2	1.0	1.2	2.0	1.0
C1957	2.1	2.0	1.4	4.0	2.0
HC93-622	1.9	3.0	1.4	4.0	1.0
HC93-941	2.1	3.0	1.4	4.0	1.0
HC93-979	1.5	2.0	1.4	3.0	1.0
HC93-1086	2.0	3.0	1.4	3.0	1.0
HC93-1461	1.4	2.0	1.2	2.0	1.0
HC93-1556	1.7	2.0	1.2	3.0	1.0
HC93-1558	1.4	1.0	1.2	3.0	1.0
HC93-1584	1.5	1.0	1.2	3.0	1.0
HC93-1835	1.9	2.0	1.2	3.0	2.0
HC93-2084	1.8	2.0	1.2	3.0	2.0
HC94-126PR	1.7	2.0	1.2	4.0	1.0
HC94-422	1.6	1.0	1.2	3.0	1.0
HC95-15MB	2.3	2.0	2.3	2.0	3.0

PRELIMINARY TEST IVB, 1997

SEED QUALITY (score)

Strain	Queenstown	Columbia	Mt. Orab	South Charleston
	MD	MO	OH	OH
KS4694 (L)	1.0	1.0	1.0	2.0
Macon (III)	1.0	2.0	1.1	2.0
Stressland (IV)	1.0	1.0	1.0	1.5
K1377	2.5	1.0	1.0	2.0
K1378	1.3	1.0	1.0	2.5
K1379	1.0	1.0	1.0	1.5
K1380	1.3	2.0	1.0	1.8
K1381	2.0	2.0	1.0	2.5
K1382	1.8	2.0	1.0	2.0
K1383	2.3	1.0	1.2	2.0
K1384	1.5	1.0	1.0	1.8
K1385	1.5	1.0	1.0	2.5
K1386	1.3	1.0	1.0	3.0
Ky94-1501	1.3	1.0	1.0	3.0
Ky94-1502	1.5	2.0	1.0	2.0
Ky94-1505	1.5	2.0	1.0	2.0
Ky94-2305	1.0	1.0	1.0	1.8
Ky94-2325	1.0	2.0	1.3	3.0
Md94-5451	1.0	3.0	1.0	1.8
Md94-5457	1.5	2.0	1.0	1.8
Md94-5463	1.8	1.0	1.0	2.5
Ripley (dt1)	1.0	1.0	1.0	1.5
C1957	3.0	1.0	1.0	2.0
HC93-622	2.0	1.0	1.0	1.8
HC93-941	2.0	2.0	1.0	2.0
HC93-979	1.0	1.0	1.0	1.5
HC93-1086	2.3	2.0	1.0	2.0
HC93-1461	1.0	1.0	1.0	2.0
HC93-1556	1.5	2.0	1.0	2.0
HC93-1558	1.3	1.0	1.0	2.0
HC93-1584	1.5	1.0	1.0	2.0
HC93-1835	1.3	2.0	1.0	2.5
HC93-2084	1.3	1.0	1.0	2.5
HC94-126PR	1.3	1.0	1.0	2.0
HC94-422	2.0	1.0	1.2	2.5
HC95-15MB	1.0	4.0	1.0	3.0

PRELIMINARY TEST IVB, 1997

Strain	SEED SIZE (g/100)				
	Mean 8 Tests	Nashville IL	Urbana IL	Manhattan KS	Lexington KY
KS4694 (L)	17.4	17.2	17.5	18.1	15.6
Macon (III)	18.8	17.2	18.4	20.1	18.6
Stressland (IV)	14.8	13.6	14.7	16.0	14.7
K1377	15.8	15.5	15.7	17.3	15.5
K1378	17.1	16.1	17.1	19.2	15.2
K1379	17.0	16.7	15.9	19.0	17.0
K1380	15.6	15.4	16.1	16.0	15.3
K1381	16.4	15.0	17.1	18.6	14.6
K1382	14.5	13.6	13.5	18.2	12.7
K1383	15.6	14.2	15.6	17.4	14.9
K1384	16.2	16.8	15.7	17.3	11.6
K1385	16.7	16.0	15.1	18.4	15.7
K1386	17.8	17.7	16.8	20.7	17.3
Ky94-1501	17.6	17.3	16.5	18.4	18.0
Ky94-1502	17.6	15.9	17.2	18.8	15.4
Ky94-1505	18.0	16.4	17.0	18.4	17.2
Ky94-2305	17.3	15.7	17.0	18.1	16.9
Ky94-2325	15.9	15.8	15.7	17.5	15.1
Md94-5451	17.1	17.1	16.3	18.8	15.3
Md94-5457	16.3	15.3	15.4	19.3	14.2
Md94-5463	20.4	17.5	20.7	22.3	19.7
Ripley (dt1)	14.8	13.3	14.0	15.0	12.9
C1957	19.0	18.7	17.1	20.3	19.0
HC93-622	17.0	15.8	16.5	17.4	16.8
HC93-941	18.4	17.4	18.5	18.8	18.4
HC93-979	15.8	14.4	16.2	18.2	16.7
HC93-1086	16.2	14.9	16.4	17.0	16.0
HC93-1461	14.1	12.0	14.0	17.2	13.8
HC93-1556	16.2	14.9	15.1	17.0	17.4
HC93-1558	16.5	15.6	16.5	18.0	16.3
HC93-1584	16.5	15.5	17.0	18.0	17.1
HC93-1835	16.4	15.9	16.8	17.5	15.7
HC93-2084	17.3	15.9	19.3	20.6	18.2
HC94-126PR	18.5	17.0	19.0	14.7	18.4
HC94-422	19.1	18.6	20.0	20.2	17.2
HC95-15MB	14.6	13.2	15.3	15.8	15.2

PRELIMINARY TEST IVB, 1997

SEED SIZE (g/100)

Strain	Queenstown MD	Columbia MO	Mt. Orab OH	South Charleston OH
KS4694 (L)	22.4	15.0	16.7	16.4
Macon (III)	23.5	15.4	18.1	18.8
Stressland (IV)	18.2	13.6	13.5	14.4
K1377	19.2	14.5	13.5	14.8
K1378	21.5	16.4	16.2	14.8
K1379	21.4	13.5	15.6	16.9
K1380	19.4	13.2	14.8	14.8
K1381	20.3	14.6	15.4	15.6
K1382	18.1	13.2	12.7	14.0
K1383	19.9	14.1	13.8	14.8
K1384	22.2	13.8	15.5	16.3
K1385	21.6	15.2	16.3	15.2
K1386	19.6	15.2	16.8	18.4
Ky94-1501	20.0	16.6	16.1	17.6
Ky94-1502	21.5	16.2	17.5	18.1
Ky94-1505	22.3	18.4	17.3	17.3
Ky94-2305	21.5	16.0	15.9	17.0
Ky94-2325	19.0	14.8	15.3	14.3
Md94-5451	19.5	15.4	16.4	17.6
Md94-5457	19.5	15.4	15.1	16.5
Md94-5463	24.0	18.0	19.7	21.3
Ripley (dt1)	18.3	15.4	14.6	14.7
C1957	22.0	15.6	19.9	19.0
HC93-622	21.1	14.5	17.2	16.8
HC93-941	20.8	15.6	19.4	18.5
HC93-979	19.1	11.8	14.8	15.3
HC93-1086	19.2	13.4	16.2	16.2
HC93-1461	16.9	11.1	13.5	14.4
HC93-1556	19.2	13.8	15.9	16.5
HC93-1558	18.6	13.7	16.1	16.9
HC93-1584	17.9	14.6	15.9	15.9
HC93-1835	18.8	14.8	15.8	16.0
HC93-2084	18.6	14.4	15.6	16.0
HC94-126PR	21.0	16.5	20.3	21.0
HC94-422	22.5	14.6	19.5	20.4
HC95-15MB	18.1	11.3	14.2	13.8

PRELIMINARY TEST IVB, 1997

Strain	PROTEIN (%)			
	Mean 3 Tests	Urbana IL	Lexington KY	Mt. Orab OH
KS4694 (L)	41.1	39.9	40.7	42.6
Macon (III)	40.2	40.0	39.2	41.5
Stressland (IV)	43.0	41.1	43.4	44.4
K1377	41.1	39.0	40.6	43.6
K1378	40.7	40.5	40.3	41.3
K1379	41.6	41.0	41.4	42.4
K1380	41.9	40.3	41.4	44.0
K1381	41.9	40.9	41.2	43.6
K1382	40.2	38.0	40.4	42.1
K1383	41.5	40.6	41.4	42.6
K1384	40.6	38.9	41.3	41.7
K1385	40.8	39.9	41.1	41.4
K1386	41.7	41.2	41.0	42.9
Ky94-1501	42.0	41.9	40.7	43.5
Ky94-1502	41.2	40.2	41.3	42.0
Ky94-1505	42.0	41.5	41.0	43.4
Ky94-2305	42.2	41.9	40.7	44.0
Ky94-2325	41.4	40.1	41.7	42.4
Md94-5451	41.5	41.1	41.0	42.3
Md94-5457	41.8	41.1	40.8	43.4
Md94-5463	41.2	39.6	41.1	42.8
Ripley (dt1)	40.4	39.0	40.1	42.0
C1957	39.9	37.5	40.3	41.8
HC93-622	41.9	40.7	41.5	43.5
HC93-941	41.8	40.7	42.3	42.4
HC93-979	42.8	41.4	42.6	44.3
HC93-1086	41.9	40.1	41.6	44.1
HC93-1461	41.6	40.6	41.0	43.2
HC93-1556	42.2	41.2	42.3	43.0
HC93-1558	42.4	40.9	42.4	43.8
HC93-1584	41.3	39.4	41.0	43.6
HC93-1835	40.8	40.0	40.3	42.0
HC93-2084	42.1	40.7	41.4	44.1
HC94-126PR	41.9	40.7	42.1	42.9
HC94-422	41.8	41.2	40.9	43.4
HC95-15MB	43.2	40.4	42.8	46.3

PRELIMINARY TEST IVB, 1997

Strain	OIL (%)			
	Mean 3 Tests	Urbana IL	Lexington KY	Mt. Orab OH
KS4694 (L)	19.8	20.4	20.3	18.7
Macon (III)	20.4	20.7	21.0	19.6
Stressland (IV)	19.5	20.5	19.9	18.1
K1377	19.9	21.3	20.8	17.6
K1378	19.9	20.2	20.6	18.8
K1379	19.7	20.6	19.9	18.7
K1380	19.3	20.5	19.8	17.6
K1381	19.8	20.4	20.4	18.7
K1382	20.0	21.2	20.3	18.4
K1383	20.3	20.7	20.8	19.5
K1384	20.1	21.2	20.0	19.2
K1385	20.0	20.3	20.6	19.2
K1386	19.9	20.3	20.4	19.0
Ky94-1501	19.7	20.2	20.7	18.3
Ky94-1502	20.6	20.9	20.8	20.2
Ky94-1505	19.3	19.8	19.8	18.4
Ky94-2305	20.0	20.3	21.3	18.5
Ky94-2325	19.9	20.7	20.3	18.6
Md94-5451	20.1	20.7	20.2	19.4
Md94-5457	19.8	20.5	20.7	18.1
Md94-5463	19.8	20.0	20.4	19.1
Ripley (dt1)	19.4	20.5	19.8	17.8
C1957	21.0	22.0	21.5	19.6
HC93-622	20.0	20.9	20.1	18.9
HC93-941	19.6	20.4	19.8	18.6
HC93-979	19.3	20.0	19.9	18.0
HC93-1086	19.7	20.9	20.0	18.2
HC93-1461	19.1	19.7	19.9	17.8
HC93-1556	19.8	20.7	19.9	18.9
HC93-1558	19.2	20.1	19.3	18.2
HC93-1584	20.1	20.9	20.4	18.9
HC93-1835	20.3	20.9	20.4	19.5
HC93-2084	19.3	20.3	19.9	17.8
HC94-126PR	20.6	21.8	20.5	19.6
HC94-422	20.1	20.7	20.6	19.0
HC95-15MB	18.9	20.4	19.3	17.1



