

2001

# The Uniform Soybean Tests: Northern Region 2001

Gary L. Nowling  
*USDA, ARS*

Follow this and additional works at: <https://docs.lib.purdue.edu/ars>

---

## Recommended Citation

Nowling, Gary L., "The Uniform Soybean Tests: Northern Region 2001" (2001). *Uniform Soybean Tests Northern Region*. Paper 63.  
<https://docs.lib.purdue.edu/ars/63>

This document has been made available through Purdue e-Pubs, a service of the Purdue University Libraries. Please contact [epubs@purdue.edu](mailto:epubs@purdue.edu) for additional information.

# THE UNIFORM SOYBEAN TESTS NORTHERN REGION

2001

Coordinated by:

Gary L. Nowling, USDA, ARS  
Department of Botany and Plant Pathology  
Purdue University, W. Lafayette, IN 47907-1150  
Office phone 765-583-2952  
FAX 765-496-3452  
Email [gnowling@purdue.edu](mailto:gnowling@purdue.edu)  
[www.agry.purdue.edu/soybean/regionalreport/index.htm](http://www.agry.purdue.edu/soybean/regionalreport/index.htm)

## TABLE OF CONTENTS

Uniform Test Participants, 2001	1
Introduction	7
Policy on Evaluation and Release of Strains	7
Strain Designations	8
Methods	9
Disease Methods	11
Procedure for Testing and Release of Strains	12
Uniform Test Strains Released in 2001	14
Soybean Cyst Nematode Evaluations	15
Identification of Parent Strains 2001	16
Disease, Shattering and Descriptive Data 2001	23
Uniform Test Locations 2001	24
Uniform Test 00	26
Uniform Test 0	39
Preliminary Test 0	59
Uniform Test I	71
Preliminary Test I	83
Uniform Test II	95
Preliminary Test IIA	111
Preliminary Test IIB	132
Uniform Test III	153
Preliminary Test IIIA	184
Preliminary Test IIIB	205
Uniform Test IV	226
Preliminary Test IVA	257
Preliminary Test IVB	278

## ACKNOWLEDGEMENTS

The cooperation of Donna I. Thomas, NCR Unit Laboratory, National Center for Agricultural Utilization Research, Peoria, Illinois, in analyses of Uniform Test samples for protein and oil concentration of the seeds, and the collaboration of Dr. Terri Niblack, Dept. of Crop Science, University of Illinois, in evaluations of Uniform Test Samples for Soybean Cyst Nematode is gratefully acknowledged. The assistance of Wad Crochet and Jerry Powell in packeting and distributing seed for the Uniform Tests and for Phytophthora evaluations is sincerely appreciated.

The Uniform Soybean Test is conducted and managed as a component of a CRIS project on Enhancing Soybean Seed Composition and Pest Resistance in the USDA-ARS Crop Production and Pest Control Research Unit at West Lafayette, Indiana. The lead scientist for the CRIS Unit is Dr. Scott Abney



UNIFORM TEST PARTICIPANTS, 2001

Uniform Test Cooperator:

Technical Contact:

---

Gary R. Ablett  
Ridgetown College  
Main Street East  
Ridgetown, Ontario  
Canada NOP 2CO  
Ph: 519-674-1505  
FAX: 519-674-1515  
Email: [gablett@ridgetowc.uoguelph.ca](mailto:gablett@ridgetowc.uoguelph.ca)

Dennis Fischer  
Ridgetown College  
Main Street East  
Ridgetown, Ontario  
Canada NOP 2CO  
Ph: 519-674-1598  
FAX: 519-674-1600  
Email: [dfischer@ridgetownc.uoguelph.ca](mailto:dfischer@ridgetownc.uoguelph.ca)

T. Scott Abney, USDA-ARS  
Dept. of Botany and Plant Pathology  
Purdue University  
West Lafayette, IN 47907-1155  
Ph: 765-494-9859  
FAX: 765-496-3452  
Email: [tsabney@purdue.edu](mailto:tsabney@purdue.edu)

Gary Nowling, USDA-ARS  
USDA Soybean Research Lab.  
4540 Hwy. 52 West  
West Lafayette, IN 47906  
Ph: 765-583-2952  
FAX: 765-496-3452  
Email: [gnowling@purdue.edu](mailto:gnowling@purdue.edu)

Deng-Jin Bing  
Morden Research Station  
Unit 100-101, Route 100  
Morden, Manitoba  
Canada R6M 1Y5  
Ph: 204-822-7233  
FAX: 204-822-7207  
Email: [dbing@em.agr.ca](mailto:dbing@em.agr.ca)

Al Sloan, A.A.F.C.  
Morden Research Center  
Unit 100-101 Route 100  
Morden, Manitoba  
Canada R6M 1Y5  
Ph: 204-822-7256  
FAX: 204-822-7207  
Email: [asloan@em.agr.ca](mailto:asloan@em.agr.ca)

Glenn R. Buss  
Department of Crop, Soil,  
& Environmental Sciences  
Virginia Polytechnic Institute  
Blacksburg, VA 24061-0404  
Ph: 540-231-9788  
FAX: 540-231-3431  
Email: [gbuss@vt.edu](mailto:gbuss@vt.edu)

E. Cober  
Agriculture & Agri-Food Canada, Res. Branch  
Eastern Cereal and Oilseed Research Centre  
Ottawa, Ontario  
Canada K1A 0C6  
Ph: 613-759-1610  
FAX: 613-759-6597  
Email: [coberer@em.agr.ca](mailto:coberer@em.agr.ca)

R. Guillemette  
Agriculture & Agri-Food Canada, Res. Branch  
Eastern Cereal and Oilseed Research Centre  
Ottawa, Ontario  
Canada K1A 0C6  
Ph: 613-759-1611  
FAX: 613-759-6597  
Email: [guillemettr@em.agr.ca](mailto:guillemettr@em.agr.ca)

Richard L. Cooper, USDA-ARS  
Dept. of Horticulture and Crop Science  
1680 Madison Ave.  
OARDC-OSU  
Wooster, OH 44691  
Ph: 330-263-3875  
FAX: 330-263-3887  
Email: [cooper.16@osu.edu](mailto:cooper.16@osu.edu)

Tim Mendiola, USDA-ARS  
Dept. of Horticulture and Crop Science  
1680 Madison Ave.  
Wooster, OH 44691  
Ph: 330-263-3974  
FAX: 330-263-3887  
Email: [mendiola.3@pop.service.ohio-state.edu](mailto:mendiola.3@pop.service.ohio-state.edu)

UNIFORM TEST PARTICIPANTS, 2001

Uniform Test Cooperator:

Technical Contact:

---

Thomas E. Devine, USDA-ARS  
Plant Molecular Biology Lab.  
Bldg. 006,  
BARC West  
Beltsville, MD 20705  
Ph: 301-504-6375  
FAX:  
Email: [reisingr@asrr.arsusda.gov](mailto:reisingr@asrr.arsusda.gov)

Brian Diers  
Turner Hall-Agronomy  
1102 S. Goodwin St.  
University of Illinois  
Urbana, IL 61801  
Ph: 217-265-4062  
FAX: 217-265-  
Email: [bdiers@uiuc.edu](mailto:bdiers@uiuc.edu)

Walt R. Fehr  
Department of Agronomy, Rm 1212  
Iowa State University  
Ames, IA 50011-1010  
Ph: 515-294-6865  
FAX: 515-294-6514  
Email: [wfehr@iastate.edu](mailto:wfehr@iastate.edu)

Ron Fioritto  
Dept. of Horticulture and Crop Science  
1680 Madison Ave.  
OARDC-OSU  
Wooster, OH 44691  
Ph. 330-263-3851  
FAX 330-263-3685  
Email: [fioritto.1@osu.edu](mailto:fioritto.1@osu.edu)

George L. Graef  
319 Keim Hall  
University of Nebraska  
Lincoln, NE 68583  
Ph: 402-472-1537  
FAX: 402-472-7904  
Email: [ggraef1@unl.edu](mailto:ggraef1@unl.edu)

Ted Helms  
Dept. of Plant Sciences  
North Dakota State University  
Fargo, ND 58105-5051  
Ph: 701-231-8136  
FAX: 701-231-8474  
Email: [ted\\_helms@ndsu.nodak.edu](mailto:ted_helms@ndsu.nodak.edu)

Troy Cary  
Department of Crop Sciences  
1102 South Goodwin Ave.  
University of Illinois  
Urbana, IL 61801  
Ph: 217-244-5138  
FAX: 217-333-9817  
Email: [tcary@uiuc.edu](mailto:tcary@uiuc.edu)

Kevin Scholbrock  
1210 Agronomy Hall  
Iowa State University  
Ames, IA 50011-1010  
Ph: 515-294-0726  
FAX: 515-294-6514  
Email: [kscholbr@iastate.edu](mailto:kscholbr@iastate.edu)

Scott McIntyre  
Dept. of Horticulture and Crop Science  
1680 Madison Ave.  
OARDC-OSU  
Wooster, OH 44691  
Ph: 330-263-3974  
FAX: 330-263-3887  
Email: [mcintyre.31@osu.edu](mailto:mcintyre.31@osu.edu)

Les Korte  
Stewart Seed Lab., Room 107  
University of Nebraska  
Lincoln, NE 68583-0827  
Ph: 402-472-6343  
FAX: 402-472-7904  
Email: [lkorte@unlnotes.unl.edu](mailto:lkorte@unlnotes.unl.edu)

UNIFORM TEST PARTICIPANTS, 2001

Uniform Test Cooperator:

Technical Contact:

---

Bill J. Kenworthy  
Room 1112, H. J. Patterson Hall  
University of Maryland  
College Park, MD 20742-5821  
Ph: 301-405-1324  
FAX: 301-314-9041  
Email: [wk7@umail.umd.edu](mailto:wk7@umail.umd.edu)

Joseph G. Lauer  
University of Wisconsin  
1575 Linden Drive – Agronomy  
Madison, WI 53706-1597  
Ph: 608-262-7438  
FAX: 608-262-5217  
Email: [jglauer@facstaff.wisc.edu](mailto:jglauer@facstaff.wisc.edu)

Allen LeRoy  
Dept. of Agronomy  
Lily Hall  
Purdue University  
West Lafayette, IN 47907  
Ph: 765-496-3756  
FAX: 765-496-2926  
Email: [leroya@purdue.edu](mailto:leroya@purdue.edu)

Randy L. Nelson, USDA-ARS  
National Soybean Research Lab.  
1101 W. Peabody Dr.  
Urbana, IL 61801  
Ph: 217-244-4346  
FAX: 217-333-4639  
Email: [rlnelson@uiuc.edu](mailto:rlnelson@uiuc.edu)

Jim H. Orf  
Department of Agronomy, 411 Borlaug Hall  
University of Minnesota  
1991 Buford Circle  
St. Paul, MN 55108  
Ph: 612-625-8275 Lab. -9263  
FAX: 612-625-1268  
Email: [orffx001@tc.umn.edu](mailto:orffx001@tc.umn.edu)

Todd W. Pfeiffer  
Dept. of Agronomy  
N106 Agric. Sci. Bldg. North  
University of Kentucky  
Lexington, KY 40546  
Ph: 859-257-4678  
FAX: 859-257-7874  
Email: [tpfeiffe@ca.uky.edu](mailto:tpfeiffe@ca.uky.edu)

Mark Martinka, Program Manager  
University of Wisconsin  
253 Moore  
1575 Linden Drive – Agronomy  
Madison, WI 53706-1597  
Ph: 608-262-8273  
FAX: 608-262-5217  
Email: [martinka@facstaff.wisc.edu](mailto:martinka@facstaff.wisc.edu)

Jerry Powell  
Agronomy Dept., Lily Hall  
Purdue University  
West Lafayette, IN 47907  
Ph: 765-496-1557  
FAX: 765-496-2926  
Email: [jpowell@purdue.edu](mailto:jpowell@purdue.edu)

Edward Johnson, USDA-ARS  
Department of Crop Sciences  
1101 West Peabody Dr.  
University of Illinois  
Urbana, IL 61801  
Ph: 217-244-4348  
FAX: 217-333-4639  
Email: [eddiej@uiuc.edu](mailto:eddiej@uiuc.edu)

Phil Schaus  
Soybean Breeding and Genetics  
University of Minnesota  
411 Borlaug Hall, 1991 Buford Circle  
St Paul, MN 55108  
Ph: 612-625-9263  
FAX: 612-625-1268  
Email: [schau002@umn.edu](mailto:schau002@umn.edu)

Eugene Lacefield  
N222 Ag. Sci. Bldg.-N  
Dept. of Agronomy  
University of Kentucky  
Lexington, KY 40546-0091  
Ph: 859-257-2993  
Email: [elace0@pop.uky.edu](mailto:elace0@pop.uky.edu)

UNIFORM TEST PARTICIPANTS, 2001

Uniform Test Cooperator:

Vaino Poysa  
Agriculture & Agri-Food Canada, Res. Branch  
Plant Research Centre  
Harrow, Ontario  
Canada N0R 1G0  
Ph. 519-738-2251 ext. 467  
FAX 519-738-2929  
Email: [poysav@em.agr.ca](mailto:poysav@em.agr.ca)

Istvan Rajcan  
Dept. of Plant Agriculture, Crop Sci. Bldg  
University of Guelph  
Guelph, Ontario  
Canada N1G 2W1  
Ph: 519-824-4120 ext. 3564  
FAX: 519-763-8933  
Email: [irajcan@uoguelph.ca](mailto:irajcan@uoguelph.ca)

W. T. Schapaugh, Jr.  
Dept. of Agronomy, Throckmorton Hall  
Kansas State University  
Manhattan, KS 66506  
Ph: 785-532-7242  
FAX: 785-532-6094  
Email: [scha0035@ksu.edu](mailto:scha0035@ksu.edu)

M. Schmidt  
Dept. of Plant and Soil Science  
Mailcode 4415, Southern Illinois University  
Carbondale, IL 62901-4415  
Ph: 618-453-2496  
FAX: 618-453-7457  
Email: [mesch@siu.edu](mailto:mesch@siu.edu)

Roy Scott  
Dept. of Plant Science  
South Dakota State University  
Brookings, SD 57007  
Ph: 605-688-4749  
FAX: 605-688-4452  
Email: [rscott@itctel.com](mailto:rscott@itctel.com)

J. Grover Shannon  
University of Missouri-Delta Center  
147 Highway T  
Portageville, MO 63873  
Ph: 573-379-5431  
FAX: 573-379-5875  
Email: [shannong@missouri.edu](mailto:shannong@missouri.edu)

Technical Contact:

Bob Armstrong  
Agriculture & Agri-Food Canada, Res. Branch  
Plant Research Centre  
Harrow, Ontario  
Canada N0R 1G0  
Ph. 519-738-2251 ext. 445  
FAX 519-738-2929  
Email: [armstrongb@em.agr.ca](mailto:armstrongb@em.agr.ca)

Wade Montminy  
Dept. of Plant Agriculture, Crop Sci. Bldg.  
University of Guelph  
Guelph, Ontario  
Canada N1G 2W1  
Ph: 519-824-4120 ext. 4570 Cell: 519-835-5259  
FAX: 519-763-8933  
Email: [montminy@uoguelph.ca](mailto:montminy@uoguelph.ca)

Jim Klein  
3268 West Pleasant Hill Rd.  
SIUC  
Carbondale, IL 62901  
Ph: 618-453-2453  
FAX: 618-453-8906  
Email: [jklein@siu.edu](mailto:jklein@siu.edu)

Teresa Newman  
University of Missouri-Delta Center  
P.O. Box 160  
Portageville, MO 63873  
Ph: 573-379-4058  
FAX: 573-379-5875  
Email: [NewmanTD@missouri.edu](mailto:NewmanTD@missouri.edu)

UNIFORM TEST PARTICIPANTS, 2001

Uniform Test Cooperator:

David A. Sleper  
Dept. of Plant Science, 201 Waters Hall  
University of Missouri  
Columbia, MO 65211  
Ph: 573-882-7320  
FAX: 573-882-1467  
Email: [sleperd@missouri.edu](mailto:sleperd@missouri.edu)

Clay Sneller  
115 Plant Science Building  
University of Arkansas  
Fayetteville, AR 72701  
Ph: 501-575-7564  
FAX: 501-575-7465  
Email: [csneller@uark.edu](mailto:csneller@uark.edu)

Steve K. St. Martin  
Dept. of Horticulture and Crop Science  
202 Koffman Hall, 2021 Coffey Rd.  
Ohio State University  
Columbus, OH 43210  
Ph: 614-292-8499  
FAX: 614-292-7162  
Email: [stmartin+@osu.edu](mailto:stmartin+@osu.edu)

Gilles Tremblay  
Centre de recherches sur les grains inc. (CEROM)  
335 Chemin des 25 Est  
Saint-Bruno de Montarville (Quebec)  
Canada J3V 4P6  
Ph: 450-653-4413  
FAX: 450-441-5694  
Email: [gilles.tremblay@cerom.qc.ca](mailto:gilles.tremblay@cerom.qc.ca)

Robert Uniatowski  
Dept. of Plant and Soil Science  
University of Delaware  
Newark, DE 19717-1303  
Ph: 302-831-2531  
FAX: 302-831-3656  
Email: [robert.uniatowski@mus.udel.edu](mailto:robert.uniatowski@mus.udel.edu)

Dechun Wang  
Department of Crop & Soil Sciences  
Michigan State University  
A384-E Plant & Soil Sciences Building  
East Lansing, MI 48824-1325  
Ph: 517-353-3790  
FAX: 517-353-3955  
Email: [wangdech@msu.edu](mailto:wangdech@msu.edu)

Technical Contact:

Kerry M. Clark  
Research Support Service  
3600 New Haven Road  
Columbia, MO 65201  
Ph: 573-882-0198  
FAX: 573-884-5911  
Email: [clarkk@missouri.edu](mailto:clarkk@missouri.edu)

Tetsuaki Ishibasji  
115 Plant Science Building  
University of Arkansas  
Fayetteville, AR 72701  
Ph: 501-575-7564  
FAX: 501-575-7465  
Email: [tishiba@comp.uark.edu](mailto:tishiba@comp.uark.edu)

Glenn Mills  
Dept. of Horticulture and Crop Science  
202 Koffman Hall, 2021 Coffey Rd.  
Ohio State University  
Columbus, OH 43210  
Ph: 614-486-3212  
FAX: 614-292-7162  
Email: [mills.168@osu.edu](mailto:mills.168@osu.edu)

John F. Boyse  
Department of Crop and Soil Sciences  
286 Plant Sciences Building  
Michigan State University  
East Lansing, MI 48824-1325  
Ph: 517-355-2287  
FAX: 517-353-3515  
Email: [boyse@pilot.msu.edu](mailto:boyse@pilot.msu.edu)



UNIFORM TEST PARTICIPANTS, 2001

Uniform Test Cooperator:

Technical Contact:

---

James R. Wilcox  
Professor Emeritus  
Agronomy Dept., Lilly Hall  
Purdue University  
West Lafayette, IN 47907  
Ph: 765-494-8074  
FAX: 765-496-3452  
Email: [jwilcox@purdue.edu](mailto:jwilcox@purdue.edu)

## 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 from the tests. The summary of performance of strains in Uniform Tests 00 through IV in the northern region is included in this report. The USDA-ARS Soybean Production Research Unit, P.O. BOX 196, STONEVILLE, MS 38776, issues the report on Uniform Tests IVS through VIII in the southern states.

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 those concerned have obtained permission previously.

**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) Uniform Test participants must obtain prior approval before using any entry, other than their own, 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) 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. (LD=B. Diers, LG=R.L. Nelson, LN=C.D. Nickell, LS=M. Schmidt)
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
OK	Oklahoma Agricultural Experiment Station
ORC	Ridgetown, Ontario
OX	Research Station, Harrow, Ontario
PI	Plant Inventory
R	Arkansas A.E.S.
RJ	Arkansas State University, Jonesboro
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
U	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

## 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 Compositid 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 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 (-) of 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	Traill	
0	Lambert	-6 to +2	Traill (E)	Parker (L)
I	Parker	-4 to +4	Lambert (0)	IA2050 (L)
II	IA2021	-3 to +5	IA2050 (I)	IA2052 (L)
III	IA3010	-6 to +2	IA2052 (II)	Macon (L)
IV	HS93-4118	-2 to +9	Macon (III)	

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 IA1008 (SCN) for resistance to the soybean cyst nematode in UT I, or Strong (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 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 Quality is rated according to the following scores considering the amount and degree of wrinkling, defective seed coat (growth cracks), greenishness, and moldy or other pigment. Ratings for seed quality are:

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

Green Stem is a rating of delayed green stem at time of plant maturity (R8 = 95% of the pods have reached their mature pod color). The condition is rated according to the following scores.

- 1 = almost all plant stems yellowing or have ripened, as indicated by their mature stem color.
- 2 = 1 - 10% plants with green stems
- 3 = 11 - 25% plants with green stems
- 4 = 26 - 50% plants with green stems
- 5 = > 50% plants with green stems.

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, Yellow; prefixes indicate Light or Dark shades, e.g. Lbf = light buff, Dib = dark imperfect black. H indicates heterogeneous for hilum color.
- 7 = Stem termination: Determinate, Indeterminate, Semi-Determinate
- 8 = Ep high seed coat peroxidase, ep low seed coat peroxidase, H heterogeneous

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 seed coat 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. Clear-cut 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 soja</u>
PM	Powdery mildew	<u>Microsphaera diffusa</u>
PR	Phytophthora rot	<u>Phytophthora sojae</u>
PS	Purple stain	<u>Cercospora kikuchii</u>
P&SB	Pod & stem blight	<u>Phomopsis</u> spp.
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	
SDS	Sudden death syndrome	
SMV	Soybean mosaic virus	
TS	Target spot	<u>Corynespora cassiicola</u>
WF	Wildfire	
YMV	Yellow mosaic virus	

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.

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 seed coat.

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 x R6DS/9)

## PROCEDURE FOR TESTING AND RELEASE OF STRAINS

Public soybean breeders have agreed upon this policy on testing and release of soybean strains evaluated in the Uniform Soybean Tests Northern Region. 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 USDA-Agricultural Research Service coordinates the Uniform Soybean Tests. 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 an IVN test for the northern region and an IVS test for the southern region. 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. Any institution or breeder participating in the Uniform Soybean Tests may request consideration for release of any strains in the UT, however the institution that developed the strain usually initiates it.

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.

The originating institutions prepare a release notice to soybean seed producers listing all institutions participating in the release of the cultivar. 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 is 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 2001

Variety	Experimental designation	Uniform Test evaluations
IA3014	A97-973002	UTIII, PTIIIA, 2001; UTIII, SCN UT III, 2000; SCN UTIII, 1999; SCN PTIII, 1998
Stalwart	HC94-96R	UTIII, 1998-2001; PTIIIB, 1997
Sargent	ND96-1593	UT0, 2000-2001; PT0, 1999
Walsh	ND96-8929	UT0, 2000-2001, PT0, 1999
AC Rodeo	OT99-4	PT0, 2000
AC Dundas	OT 99-5	PT0, 2000

Variety	Release date	Releasing states or Provinces	Foundation seed production
IA3014	January, 2001	Iowa	2000
Stalwart	September 30, 2001	Ohio	2001
Sargent	January 19, 2001	North Dakota	2000
Walsh	January 19, 2001	North Dakota	2000
AC Rodeo	2001	Ontario	2001
AC Dundas	2001	Ontario	2001

Soybean Cyst Nematode evaluations provided by Dr. T. Niblack, Dept. Crop Science, Univ. Illinois

S = FI > 60  
 MS = FI between 30 and 60  
 MR = FI between 10 and 30  
 R = FI < 10  
 ND = not determined

Data are cyst counts. Raw data for 3 reps shown. FI = (mean / mean on Lee74) \* 100.

Inoculum level = 1,000 eggs/100 cc soil. 27 C under 16 hr days for 30 days.

Strain	01 Test	HG Type 7 ("Race 3")						HG Type 2.5.7 ("Race 1")					
		Rep1	Rep2	Rep3	Mean	FI	Rank	Rep1	Rep2	Rep3	Mean	FI	Rank
Lee 74	Check	65	170	355	197			44	87	31	54		
Peking	Check	0	0	0	0	0	-	4	5	4	4	2	-
PI88788	Check	5	0	5	3	2	-	47	44	51	47	24	+
PI90763	Check	1	0	0	0	0	-	0	2	0	1	0	-
PI437654	Check	0	0	0	0	0	-	1	0	0	0	0	-
PI209332	Check	2	16	9	9	5	-	56	53	58	56	28	+
PI89772	Check	0	0	0	0	0	-	0	0	1	0	0	-
Cloud	Check	6	53	40	33	17	+	53	50	30	44	23	+
(Pickett)	Check	0	0	1	0	0	-	5	8	8	7	4	-
MN0902CN(SCN)	01 UT0	**											
M95-123023	01 UT0	**											
M95-123116	01 UT0	**											
IA1008 (SCN)	01 UTI		12	24	54	30	MR	43	63	47	51	94	S
SD96-460K	01 UTI	**											
Loda (SCN)	01 PTIIA		0	3	17	7	R	38	31	23	31	57	MS
E99301	01 PTIIB		219	135	132	162	S	53	49	54	52	96	S
IA3104 (SCN)	01 UTIII		78	151	157	129	S	43	54	59	52	96	S
U98-310860	01 UTIII	**											
LS93-0375(SCN)	01 UTIV	*	56	11	19	29	ND	57	51	39	49	91	S
HC96-4458	01 UTIV	*	259	3	32	98	ND	57	57	49	54	101	S
LS97-1218	01 UTIV		53	52	17	41	MR	45	60	37	47	88	S
LS97-3221	01 UTIV		1	0	1	1	R	8	10	7	8	15	MR
Md95-5358	01 UTIV		51	132	186	123	S	34	35	29	33	60	S
LS98-0223	01 PTIVA		13	5	19	12	R	37	58	41	45	84	S
LS98-0582	01 PTIVA		3	15	22	13	R	49	23	35	36	66	S
LS98-0656	01 PTIVA		0	30	0	10	R	52	30	18	33	62	S
LS98-1229	01 PTIVA		32	53	53	46	MR	62	27	57	49	90	S
LS98-1386	01 PTIVA	*	15	190	63	89	ND	56	71	28	52	96	S
LS98-2259	01 PTIVA		20	49	25	31	MR	38	22	21	27	50	MS

\* = data for HG Type 7 incomplete (ND);

\*\* = data for scn cyst counts will be provided during Breeder's Workshop at St. Louis, MO (Feb. 2002)

IDENTIFICATION OF PARENT STRAINS 2001

Strain	Parentage
A13	Selection from AP9 Fe (S1) C7
A2234	[(Calland x Amsoy) x Century (3)] x Williams 82
A3322	
A55-5629-4	Roanoke x Hawkeye
A72-507	Amsoy x Wayne
A75-204018	IVR Ex4731 x Wirth
A75-332035	L15 x AP68-1016
A76-304020	(Beeson x AP68-1016) x (L15 x Calland)
A79-134008	AP6 (1YT)(F4) C2
A79-136012	Pride B216 x Land O' Lakes 4102
A80-147003	Northrup King S1492 x Pella
A80-344003	A75-332035 x Century
A81-151026	A75-204018 x Century
A81-356022	Century x A76-304020
A85-192034	A80-344003 x Asgrow A1937
A86-204022	Hack x Zane
A86-301024	A81-356022 x Hack
A86-303014	A81-356022 x Hack
A87-186035	AP9
A87-187020	Jacques J103 x A81-151026
A91-501002	AgriPro AP2190 x A86-301024
A91-701035	A86-301024 x Dekalb 226
A92-525014	IA2008 x Kenwood
A92-625002	Kenwood x LN86-1947
A92-627030	Kenwood x Asgrow A3205
A92-726004	Jack x Dairyland DSR-284
A92-727017	Kenwood x Asgrow A3205
A93-555023	[(A87-186035 x Dairyland DSR-284) x A2234] x A87-187020
A94-572029	Asgrow A2234 x HC85-604
A94-770016	A90-314041 x IA2012
A94-774021	Jacques J285 x Northrup King S29-39
A95-485020	(Pioneer P7273 x A13) x Jack
AgriPro 35	L15 x Cutler
AgriPro AP2190	CFS 2000 x K464
Agserv 8780	Unknown
AM90-112003	Agripro AP2190 x Asgrow A3427
AP1953	
AP1995	
AP3355	
AP6	Crop Science 15:739
AP68-1016	Clark (5) x PI 84.946-2
AP9	Crop Science 20:677
Asgrow A1662	Asgrow A3127 x (Century 84 (2) x A79-134008)
Asgrow A1929	
Asgrow A1937	Hodgson 78 x Wayne
Asgrow A2234	[(Calland x Amsoy) x Century (3)] x Williams 82
Asgrow A2575	C1453 x Amsoy 71
Asgrow A3127	Williams x Essex
Asgrow A3205	Northrup King S1474 x Asgrow A3127
Asgrow A3427	X3836 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

## IDENTIFICATION OF PARENT STRAINS 2001

Strain	Parentage
Asgrow A4138	Asgrow A4009 x Asgrow A4595
Asgrow A4595	Douglas x Asgrow A3127
Asgrow A4715	Asgrow A5475 x (Douglas x Asgrow A3127)
Asgrow A5475	(Tracy x d5064) x Bedford
Asgrow A6474	(Tracy x d5064) x Bedford
BD22115-13	(Amsoy x Portage) x Holmberg 840-7-3 (From Sven A. Holmberg, Sweden)
BK 22-1-3	Unknown
C1079	Lincoln x Ogden
C1253	Blackhawk x Harosoy
C1266R	Harosoy x C1079
C1426	C1253 x Kent
C1453	C1266R x C1253
C1640	Century M2 fan (low 18:3)
C1891	CX1349
C1944	CRS3-998-24-1 x HC85-2206
C9304	
CFS 2000	C1426 x Amsoy Phyt. 4
CM304	Unknown
CM497	Unknown
CRS3-998-24-1	Selection from high protein recurrent selection population
CX1022	Harper x C1640
CX1212	C1640 x BC2 BC4-12-13
CX1307	Cutler 71(5) x Pando
CX1349	CX1022 x Resnik
d5064	Unknown
D68-18	Dyer x Bragg
Dairyland DSR 277	
Dairyland DSR-217	(Corsoy x Hark) x Asgrow A3127
Dairyland DSR-222	
Dairyland DSR-284	(Hark x Corsoy) x Corsoy 79
Dairyland DSR-304	Williams x Unknown
Dairyland DSR-365	
Dekalb 226	Unknown
DeKalb Pfizer CX415	Unknown
DO-9-2-1-2	[(A7 x Altona) x P71-39] x (A7 x M62-173) x Holmberg 840-2-7
E84108	Sprite x Hardin
E85073	
E91031	E84108 x Conrad
GR8936	Asgrow A3127 x L24A
HC74-3400	Williams x Ransom
HC74-634RE	Williams x Ransom
HC74-634RE BC	HC74-634RE (6) x Williams 82
HC78-350	L72U-2567 x Essex
HC78-676	L70T-543G x L74D-619
HC78-676BC	HC78-676 (6) x Williams 82
HC80-1944	L73U-632 x Elf
HC80-585	HC74-3400 x Sprite
HC83-232-15	Pixie x PI 229.358
HC83-4532 BC	L74D-634 x Hobbit
HC84-4850	Sprite x Williams 82
HC85-164	HC78-676 x Sprite
HC85-2206	Elf x Williams
HC85-603	Sprite x Asgrow A3127
HC85-604	Sprite x Asgrow A3127

IDENTIFICATION OF PARENT STRAINS 2001

Strain	Parentage
HC85-606	Sprite x Asgrow A3127
HC85-607	Sprite x Asgrow A3127
HC85-6577	HC78-350 x HC78-676
HC85-6723	HC74-634RE x HC78-676
HC87-5844	Pixie x HC78-676
HC88-813	Hobbit 87 x HC80-585
HC89-1523	Hobbit 87 x (Hobbit 87 x HC83-232-15)
HC89-1640	Sprite 87 x (Sprite 87 x HC83-232-15)
HC89-2207	HC80-1944 x Asgrow A3127
HC89-2237	HC80-1944 x Asgrow A3127
HC89-2241	HC80-1944 x Asgrow A3127
HC89-2436	HC80-1944 x Asgrow A3127
HC89-314	Hobbit 87 x HC80-1944
HC89-868	HC78-676BC x HC74-634RE
HC90-145 PR	HC78-350 x Williams 82
HM8580	HW79116 x HW79149
Holmberg 840-2-7	PI 438.475
HS88-4909	Conrad x Hayes
HS92-2683	GR8936 (2) x HM8580
HW79116	Cumberland x Pella
HW79149	[A72-507 (6) x A1] x [A72-507 (5) x PI 82.263-2]
IVR Ex4731	Amsoy x Wayne
J74-45	Forrest (2) x (D68-18 x PI 88.788)
Ja 53-7-6	Selection from Japanese variety
Jacques J-103	Clay x Williams
Jacques J-251	
Jacques J285	Weber x Asgrow A3127
K1262	Spencer x DeKalb Pfizer CX415
K464	Beeson x Hark
L15	Wayne (6) x Clark 63
L24A	Williams (7) x Kingwa
L57-0034	Clark x Adams
L66L-140	Wayne x L57-0034
L70T-543	L15 x Amsoy 71
L70T-543G	From L70T-543
L72U-2567	Williams x Ransom
L73U-632	Miller 67 x L66L-140
L74-3897	Williams x Beeson
L74D-619	Williams x Ransom
L74D-634	Williams x Ransom
L77-994	Williams (2) x PI 88.788
L78-189	Corsoy x Kingwa
Land O'Lakes 4102	[Wayne x (Clark x Adams)] x Cutler
LG82-8379	F4 PI 68-508 x FC 04.007B
LG84-1272	F5 PI 227.333 x PI 91.730-1
LG85-2846	F5 PI 404.157 x PI 384.469A
LG85-3343	F5 PI 361.064 x PI 407.710
LG88-8958	F6 PI 253.665D x PI 283.331
LG89-1525	F8 PI 90.566-1 x L74-3897
LG89-7629	F5 Ripley x PI 445.837
LG89-771	F4 LG85-3343 x LG85-2846
LG89-773	F4 LG85-3343 x LG85-2846
LG89-7793	F5 PI 391.594 x Century
LG91-7431	F6 LG84-1272 x Elgin

IDENTIFICATION OF PARENT STRAINS 2001

Strain	Parentage
LN86-1947	PI 437.833 x Elgin
LN86-4668	Fayette x Hardin
LN89-334	Sherman x Resnik
LN89-3615	Non-exclusive release for brand labeling
LN90-4366	LN86-4668 x Resnik
LN92-6298	Burlison x Kenwood
LN94-10470	Jack x Hartwig
LS88-1517	Pyramid x Douglas
LS92-1800	Fayette x Pyramid
M0474C	White-flowered off type in Mitchell
M10	Lincoln (2) x Richland
M387	Renville x Capital
M402	Renville x Capital
M406	Harosoy x Norchief
M42-37	Lincoln (2) x Richland
M47-227	M68-49 x M63-194
M53-117	M10 x PI 180.501
M53-43	M10 x PI 180.501
M54-139	Renville x Capital
M54-240	Korean x M42-37
M59-120	M54-240 x M54-139
M62-173	M387 x M406
M63-194	Corsoy x PI 132.207
M63-217Y	Corsoy x M53-117
M63-87	Chippewa x PI 261.475
M64-3	Traverse x PI 196.163
M65-442	Anoka x Amsoy
M68-201	Evans x Steele
M68-256	Evans x Steel
M68-303	M60-406 x Beeson
M68-49	Evans x M59-120
M69-20	Merit x Clay
M70-127	Evans x M63-217Y
M70-294	Ja 53-7-6(PI 358.323 x M63-217Y)
M70-484	M63-87 x M53-43
M70-9	M64-3 x Amsoy 71
M71-148	Clay x Evans
M72-3	Evans x Hodgson
M74-23	M68-49 x Hodgson
M74-337	Evans x Northrup King 9436
M74-69	M68-256 x Hodgson
M75-274	Evans x L70T-543
M75-48	Wilkin x M65-442
M76-151	M70-127 x Hodgson 78
M76-55	M69-20 x McCall
M81-18	Evans x M65-442
M81-27	M68-49-26 x M70-294
M81-99	M70-9 x M68-201
M82-601	M70-484 x Vickery
M82-791	M68-256 x L74-3897
M82-996	M72-3 x Peterson 1677
M83-16	A2 x Hodgson
M83-442	M71-148 x Pioneer P0877
M83-459	M74-69 x M75-48

IDENTIFICATION OF PARENT STRAINS 2001

Strain	Parentage
M83-64	M74-227 x L78-189
M84-1023	M71-148 x M76-151
M85-564	M74-337 x M74-23
M85-582	McCall x Corsoy 79
M85-907	Simpson x A80-147003
M86-421	M74-23 x Gnome
M87-170	Sibely x Hack
M87-330	M76-55 x Ozzie
M88-207	M81-99 x Hardin
M89-1006	M81-27 x Corsoy 79
M89-1815	M81-27 x Dawson
M89-782	Jacques J-231 x Kato
M90-1105	Ozzie x A85-192034
M90-1278	BSR 101 x Kato
M90-1573	L1-5 x Glenwood
M90-1712	M83-459 x Corsoy
M90-370	M81-27 x M83-16
M90-766	M83-442 x McCall
M91-1195	Sturdy x Kato
M91-201	Agassiz x Maple Glen
M91-228	Maple Belle x Maple Glen
M91-278	OT86-1 x McCall
M91-301	OT86-1 x McCall
M91-557	Ozzie x M86-421
M92-1631	Faribault x Bell
M92-597	Pioneer P9061 x Ozzie
M92-674	Agassiz x Ozzie
M92-761	Maple Belle x M85-582
M92-836	M85-564 x Kato
M92-914	Glenwood (2) x Elgin 87
M95-327	Parker (3) c Marcus 95
MO30421	
MSBP1	Male-sterile intermated population
MSBP6	Male-sterile intermated population
ND(M)89-556	M82-791 x M82-601
ND(M)90-599	Evans (2) x PI 417.511
ND(M)90-794	M83-442 x M81-18
ND88-686	Evans x Bicentennial
ND88-800	Maple Amber x Evans
ND90-3465	McCall x Ozzie
Northrup King 9436	Northrup King CO.
Northrup King S1346 (6)	A55-5629-4 x PI 257.435
Northrup King S1436	A55-5629-4 x PI 257.435
Northrup King S1474	Hark x Wayne
Northrup King S1492	Corsoy x Wayne
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
Northrup King S20-91	
Northrup King S24-90	
Northrup King S24-92	Asgrow A3127 x [(IVR 1120 x Calland) x (Mitchell x Cutler 71)]
Northrup King S26-06	Northrup King S18-84 x Matsoy
Northrup King S29-39	Pride B152 x 9240R
Northrup King S42-30	Essex x AgriPro 35

## IDENTIFICATION OF PARENT STRAINS 2001

Strain	Parentage
Northrup King S46-44	Asgrow A5474 x Asgrow A3127
OAC 88-09	OAC Thames
OAC 92-08	(Maple Arrow x Williams) x OT84-12
ORC 9002	A81-151026 x Elgin
ORC 9201	Conrad x RCAT Alliance
OT84-12	BD221115-13 x Premier
OT86-1	Coles x DO-9-2-1-2
OT87-7	(Maple Presto x Williams) x Weber
OT88-1	BD22115-13 x Weber
OT89-16	AC Proteus
OT90-7	(Thompson 7803 x BD22115-13) x McCall
OT92-2	(McCall x PI 317.334A) x Baron
OT92-8	Baron x Maple Donovan
P71-39	Acme x Blackhawk
Peterson 1677	Corsoy (2) x Rampage
PG91-7323	
Pioneer P0877	(Clark x Chippewa 64) x Corsoy
Pioneer P7273	
Pioneer P9061	Wells x Pioneer P1677
Pioneer P9233	
Pioneer P9281	
Pioneer P9304	
Pioneer P9305	
Pioneer P9321	MO30421 x (Weber x Asgrow A3127)
Pioneer P9362	
Pioneer P9393	Asgrow A3733 x Resnik
Pioneer P9402	(L77-994 x Asgrow A3127) x L77-994
Pioneer P9451	Pioneer P9571 x Pioneer P9402
Pioneer P9521	Pioneer P9531 x Pioneer P9561
Pioneer P9531	Centennial x (Pickett 74 x J74-45)
Pioneer P9561	Mack x Forrest
Pioneer P9571	(Dyer x Forrest) x J74-45
Pride B152	Northrup King S1346 (6) x Mack
Pride B216	Corsoy x Wayne
S 02-30	Sigco KG60 x Bicentennial
S88-19561	Forrest (3) x PI 437.654
S92-2713	Williams (2) x (Forrest x PI 437.654)
SD(ND)94-9231	M83-64 x Pioneer P9061
SD92-1272	Sibley x Kato
SD92-1323	Kasota x Kato
Sigco KG20	McCall x 2S11
Sigco KG60	Pride B216 x BK 22-1-3
SL89-3343	Simpson x (Amsoy 71 x HeiHo3)
SL91-1252N	PI 423.708B x Pioneer P0877
SL91-1657N	Pioneer P9061 x PI 1238.924
SL91-1736M	Parker x Glenwood
SL91-1767M	M83-1023 x Sturdy
SL92-1357M	Hack x Lambert
SL92-140M	Simpson x M85-907
SL93-3343	
Thompson T7803	Wells x Williams
U93-3122	Asgrow A3205 x A86-303014
U94-2306	Holt x Dairyland DSR 304
U94-3412	Parker x Holt



IDENTIFICATION OF PARENT STRAINS 2001

Strain	Parentage
U94-3518	Agserv 8780 x Uphoff 3100
U95-2418	MSBP1 (NE1900)
UP1Fe-95-9	G. Graef
Uphoff 3100	Unknown
X3836	Unknown
9240R	Unknown
92546-01td	Tall dt x OAC 88-09 E. Cober's Ph D Thesis

2001 DISEASE, SHATTERING, AND DESCRIPTIVE DATA

Location		Tests Conducted By:	Tests	UT	PT
IL	Carmi	R. Whelan	SDS	IV	
	Pontiac	R. Whelan	SDS	I-III	
	Ullin	R. Whelan	FELS	IV	
	Belleville	M. Schmidt	Stand %	IV	IV
	Ullin	M. Schmidt	Stand %	IV	
IN	Lafayette	S. Abney	PS	I-IV	I-IV
	Lafayette	S. Abney	P&SB	I-IV	I-IV
	Lafayette	S. Abney	PR 4 & PR 7	00-IV	I-IV
	Lafayette	G. Nowling	Descriptive Code	00-IV	I-IV
MN	Yellow Medicine Co.	J.H. Orf	Fe Chlorosis	00-IV	0,I
KS	Manhattan	W. Schapaugh, Jr.	Shattering Score	00-IV	0-IV
WI	Arlington	Lauer/Martinka	BSR	0-II	
	Arlington	Lauer/Martinka	Stand Score	0-II	

**2001 UNIFORM AND PRELIMINARY TEST LOCATIONS**

Location	Tests Conducted By:	Uniform Tests					Preliminary Tests						
		00	0	I	II	III	IV	0	I	II	III	IV	
AR	Fayetteville	C. Sneller	X	X	X								
DE	Georgetown	B. Uniatowski					X	X					
	Middletown	B. Uniatowski					X	X					
IA	Ames	W. Fehr			X*	X*	X			X*	X*	X	
	Carlisle	W. Fehr					X*					X*	
	Kanawha	W. Fehr			X					X*			
	Richland						X						
	Rippey	W. Fehr				X					X		
IL	Belleville	M. Schmidt						X					X
	Dekalb	B. Diers				X							
	Dewight	B. Diers				X							
	Newton	B. Diers					X*	X					
	Ullin	M. Schmidt						X					
	Urbana	B. Diers				X*	X*	X*			X*	X*	X*
IN	Butlerville	G. Nowling					X	X					X*
	Lafayette	G. Nowling			X*	X*	X*	X*			X*	X*	
	Wanatah	G. Nowling			X	X	X						
KS	Manhattan	W. Schapaugh Jr.					X	X*				X	X
	Ottawa	W. Schapaugh Jr.						X					
	Powhattan	W. Schapaugh Jr.											
	Seneca	W. Schapaugh Jr.					X						
KY	Lexington	T. Pfeiffer						X*					X*
MAN	Morden	D. Bing	X										
MD	Queenstown	W. Kenworthy / P. Cregan					X	X					X
MI	Ingham Co.	D. Wang / J. Boyse			X	X				X	X		
	Lenawee Co.	D. Wang / J. Boyse				X							
	Saginaw Co.	D. Wang / J. Boyse			X								
MN	Crookston	J. Orf	X*										
	Lamberton	J. Orf			X*	X*				X*			
	Moorhead	J. Orf	X*										
	Morris	J. Orf			X*					X*			
	Rosemount	J. Orf			X*					X			
	Shelly	J. Orf	X										
	Waseca	J. Orf			X*	X				X*			

2061 UNIFORM AND PRELIMINARY TEST LOCATIONS

Location	Tests Conducted		Uniform Tests				Preliminary Tests						
		By:	00	0	I	II	III	IV	0	I	II	III	IV
MO	Kingdom City	D. Sleper					X	X				X	X*
	Portageville (Clay)	G. Shannon					X	X					
	Portageville (Loam)	G. Shannon	X	X	X		X	X					X
NE	Beemer	G. Graef / L.Korte			X	X					X		
	Cotesfield	G. Graef / L.Korte				X							
	Goehner	G. Graef / L.Korte			X	X	X				X	X	
	Plymouth	G. Graef / L.Korte					X					X	
	Tekamah	G. Graef / L.Korte					X						
ND	Casselton	T. Helms	X*	X*					X*				
OH	Mt. Orab	S. St. Martin						X*					X*
	Plain City	S. St. Martin					X						
	So. Charleston	R. Cooper					X	X				X	X
ONT	Beachburg	E. Cober	X										
	Elora	I. Rajcan	X*										
	Harrow	V. Poysa				X					X*		
	Ottawa	E. Cober		X					X*				
	Ridgetown	G. Ablett			X	X							
	Talbotville	I. Rajcan			X*								
	Woodstock	I. Rajcan		X*					X*				
QUE	Saint Bruno	G. Tremblay	X*	X*					X*				
SD	Beresford	R. Scott				X					X		
	Watertown	R. Scott		X	X				X	X			
WI	Arlington	J. Lauer / M. Martinka			X	X	X						
X Location With Agronomic Data			10	9	16	18	22	17	7	6	9	9	10
X* Location With Seed Composition Data			5	5	5	4	4	5	5	4	4	3	5

Uniform Test 00, 2001

Strain	Parentage	Previous Testing	Generation Compositied	Unique Traits
1. McCall (00)	(Acme x Chippewa) x Hark	26	F5	
2. Jim	Sigco KG20 x M81-18	1	F5	
3. Glacier	McCall x Altona	5	F4	Rps6
4. Traill (0)	M82-996 x Sigco KG20	6	F5	
5. M93-310162	M87-330 x Glacier	1	F5	Rps6
6. M94-135066	Harmony x OT92-8	1	F5	Rps1
7. M94-147018	M92-761 x Agassiz	PT0	F5	Rps1
8. M94-161151	IA1006 x Agassiz	1	F5	Rps1, BSR
9. M95-116011	Glacier x S19-90	1	F5	Rps1
10. M95-210105	Harmony x Surge	-	F5	Rps1a
11. M95-210107	Harmony x Surge	-	F5	Rps1a
12. M95-211007	SD92-1272 x Agassiz	-	F5	Rps1a
13. M95-236058	Glacier x M91-1195	-	F5	Rps1a
14. M95-290065	Hendricks x PI 507.705	-	F5	Rps1a
15. M95-301020	PI 561.302A x Glacier	-	F5	Rps6
16. ND97-935	Agassiz x Glacier	1	F5	Rps6
17. ND97-1064	Glacier x Council	1	F5	Rps6
18. ND97-1211	Glacier x Lambert	1	F5	Rps6
19. ND97-1763	OT87-7 x OT90-7	1	F5	
20. ND98-553	Traill x M90-766	-	F5	
21. ND98-677	M90-370 x SD92-1323	-	F5	
22. ND98-817	Glacier x M90-1105	-	F5	Rps6
23. ND98-818	Glacier x M90-1105	-	F5	Rps6
24. ND98-1185	Traill x M90-766	-	F5	
25. OAC 98-01	OAC Frontier x ND88-686	1	F5	
26. OAC 98-32	92546-01td x C9304	1	F5	
27. OAC 99-02	OAC Brussels x (E85073 x Maple Glen)	1	F5	
28. OAC 00-05	OAC Atwood x OAC Vision	-	F5	High Protein
29. OAC 00-09	OAC Atwood x OAC Vision	-	F5	
30. OAC 00-10	A92-525014 x OAC Vision	-	F5	
31. OAC 00-11	OAC Erin x OAC Wingham	-	F5	

UNIFORM TEST 00, 2001  
DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	<u>Chlorosis</u>	<u>Shatter</u>	<u>PR</u>	
		Score Yellow Medicine Co.	Score Manhattan	Race 4	Lafayette Race 7
McCall (00)	PGTDYYI	4.2	1.0	S	R
Jim	PGBDYI	3.8	1.0	S	S
Glacier	PTBDYYI	4.3	2.0	R	R
Trall (0)	PTBDYYI	3.9	2.0	H	R
M93-310162	PTBDYYI	4.2	2.0	R	S
M94-135066	PTBDYBrI	4.2	1.0	R	R
M94-147018	PGBDYBfI	4.7	1.0	S	R
M94-161151	PGBDYIbI	4.2	2.0	S	R
M95-116011	PTTDYYI	4.0	2.0	S	R
M95-210105	P+WTBDYBII	3.7	1.0	S	R
M95-210107	PTBIYBII	3.5	1.0	S	S
M95-211007	PGBDYBfI	4.3	3.0	H	S
M95-236058	PTBIYYI	4.3	2.0	S	R
M95-290065	PT+GBSYYI	3.7	1.0	S	H
M95-301020	PTBDYYI	4.7	1.0	H	S
ND97-935	PGBDYBrI	4.4	2.0	R	S
ND97-1064	PTBDYYI	3.7	1.0	R	R
ND97-1211	PGBSYYI	4.7	2.0	H	S
ND97-1763	PGBSYYI	4.0	1.0	S	S
ND98-553	PTBDYGrI	4.2	1.0	S	S
ND98-677	PTBSYYI	3.8	1.0	R	S
ND98-817	PTBDYYI	3.2	2.0	H	S
ND98-818	PTBDYBrI	4.0	2.0	R	S
ND98-1185	PGBSYY+GrI	4.0	3.0	S	R
OAC 98-01	PGBDYBII	4.5	3.0	S	S
OAC 98-32	PTBSYYI	4.7	2.0	R	R
OAC 99-02	PTBIGGrI	4.5	3.0	S	S
OAC 00-05	PTBSYYI	4.3	3.0	S	S
OAC 00-09	WTBSYYI	3.7	2.0	R	S
OAC 00-10	WTBSYBII	4.2	2.0	S	S
OAC 00-11	WTBDYY+GrI	3.4	2.0	S	S

UNIFORM TEST 00, 2001

REGIONAL SUMMARY

No. of Tests Strain	Yield 8 bu/a	Rank 8 No.	Maturity 8 Date	Lodging 7 Score	Plant Height 8 In	Seed Size 7 g/100	Seed Quality 5 Score	Composition	
								Protein 5 %	Oil 5 %
McCall (00)	31.8	30	9/14	1.4	31	13.7	2.0	39.1	21.3
Jim	36.2	17	1.8	1.4	31	15.3	1.6	40.1	20.9
Glacier	33.6	27	1.9	1.6	31	13.9	1.6	39.6	21.0
Trall (0)	37.5	10	5.6	1.6	33	15.5	1.5	40.8	20.9
M93-310162	33.9	26	0.9	1.4	30	12.7	1.4	40.7	21.4
M94-135066	34.7	22	1.0	1.4	34	14.8	1.5	39.5	21.9
M94-147018	37.2	13	7.1	1.9	36	13.9	1.4	40.5	21.4
M94-161151	38.0	7	3.3	1.3	32	13.8	1.2	39.7	21.7
M95-116011	35.5	19	1.6	1.3	30	16.6	1.5	40.2	20.9
M95-210105	37.0	14	6.3	1.2	33	14.5	1.3	38.8	22.6
M95-210107	34.9	21	2.5	1.1	29	14.2	1.6	39.5	22.5
M95-211007	37.5	12	5.1	1.5	34	15.4	1.4	40.2	21.7
M95-236058	34.7	22	10.1	2.2	36	16.3	1.8	40.7	20.6
M95-290065	35.1	20	9.1	2.2	37	13.4	1.6	40.4	20.5
M95-301020	34.0	25	7.1	2.3	33	14.5	1.6	41.1	20.4
ND97-935	35.6	18	6.4	2.0	34	13.7	1.3	39.7	21.2
ND97-1064	36.6	15	5.4	1.5	32	14.4	1.6	41.0	20.7
ND97-1211	38.0	7	5.6	1.4	31	16.1	1.2	40.5	21.3
ND97-1763	36.3	16	6.4	1.4	35	14.3	1.6	38.0	21.9
ND98-553	39.1	3	4.8	1.6	33	17.1	1.7	41.2	20.8
ND98-677	38.7	4	5.4	1.7	34	15.5	1.8	40.8	20.9
ND98-817	32.5	29	6.3	1.7	33	14.7	1.6	39.9	21.0
ND98-818	34.3	24	5.3	2.0	34	16.2	1.2	40.8	20.9
ND98-1185	37.5	10	6.3	1.4	31	14.9	1.5	39.6	21.4
OAC 98-01	38.5	6	6.3	2.4	35	13.1	1.2	39.8	22.2
OAC 98-32	37.9	9	7.6	1.3	32	16.9	1.1	39.1	22.0
OAC 99-02	40.5	2	7.6	2.0	36	16.5	1.8	38.5	21.9
OAC 00-05	27.6	31	-0.1	1.8	32	15.1	1.5	40.4	20.7
OAC 00-09	41.2	1	3.0	1.2	31	15.3	1.4	39.8	21.3
OAC 00-10	33.3	28	3.5	1.1	33	14.9	1.2	39.9	21.4
OAC 00-11	38.6	5	4.0	1.2	30	15.1	1.6	38.6	22.2

108.1 Days After Planting

UNIFORM TEST 00, 2001

2000-2001 2-YEAR MEAN

No. of Tests Strain	Yield 15 bu/a	Rank 15 No.	Maturity 15 Date	Lodging 14 Score	Plant Height 15 In.	Seed Size 14 g/100	Composition	
							Protein 9 %	Oil 9 %
McCall (00)	33.4	14	9/15	1.3	27	14.9	38.9	21.1
Jim	36.9	12	2.1	1.3	27	15.9	39.2	20.9
Glacier	36.1	13	2.0	1.5	28	15.5	39.5	20.5
Trail (0)	39.0	6	6.0	1.5	29	16.4	40.6	20.3
M94-135066	38.7	7	1.0	1.4	30	16.0	39.2	21.7
M94-161151	39.2	4	3.9	1.3	29	14.9	39.5	21.2
M95-116011	37.4	11	1.9	1.2	26	17.6	39.9	20.8
ND97-935	38.5	8	6.7	1.8	30	14.8	39.1	20.6
ND97-1064	39.1	5	5.2	1.4	28	15.4	40.8	20.4
ND97-1211	39.9	2	5.6	1.3	28	16.5	40.3	20.8
ND97-1763	38.3	9	6.2	1.3	31	15.4	37.5	21.6
OAC 98-01	40.3	1	5.5	2.1	30	14.2	39.1	22.1
OAC 98-32	38.3	9	7.1	1.2	29	17.8	39.4	21.4
OAC 99-02	39.4	3	7.3	1.7	31	17.4	38.5	21.4

114.1 Days After Planting



## UNIFORM TEST 00, 2001

## YIELD (bu/a)

Strain	Mean 8 Tests	Fatyet- ville AR*	Morden MB	Crook- ston MN	Moor- head MN	Shelly MN	Portage* ville MO	Cassel- ton ND	Beach- burg Ont.	Elora Ont.	St. Bruno Montarville Que.
McCall (00)	31.8	33.6	68.8	31.5	38.2	26.5	18.4	25.7	28.9	15.3	19.7
Jim	36.2	42.1	77.5	35.1	44.5	32.8	20.8	28.3	33.3	13.4	24.3
Glacier	33.6	36.7	78.6	28.6	38.5	23.8	17.7	30.9	31.7	13.9	23.1
Traill (0)	37.5	35.7	71.2	33.9	41.9	35.0	17.2	39.2	33.1	20.6	25.1
M93-310162	33.9	33.7	79.3	26.2	35.3	24.4	15.1	32.4	34.4	16.4	22.7
M94-135066	34.7	41.7	77.8	28.1	42.0	29.6	21.2	27.6	34.3	11.8	26.1
M94-147018	37.2	45.1	76.9	28.1	42.8	31.5	18.7	37.8	32.5	22.2	26.1
M94-161151	38.0	32.5	81.9	29.9	40.4	31.3	15.4	33.3	41.4	21.7	24.4
M95-116011	35.5	37.0	73.4	25.7	40.0	28.3	16.9	37.5	35.0	18.4	25.5
M95-210105	37.0	35.3	64.8	36.4	43.1	32.1	18.0	37.6	36.1	16.5	29.6
M95-210107	34.9	32.6	74.4	35.0	45.1	25.3	14.4	31.2	29.9	13.5	24.7
M95-211007	37.5	36.1	69.8	33.2	46.1	30.9	14.4	40.1	36.3	14.1	29.2
M95-236058	34.7	38.5	61.8	33.9	41.3	32.4	20.0	40.5	28.2	10.2	29.2
M95-290065	35.1	25.4	56.1	32.0	43.6	34.2	20.3	34.6	36.5	15.5	28.0
M95-301020	34.0	41.4	72.3	29.5	40.9	25.1	23.3	43.4	26.0	10.7	23.7
ND97-935	35.6	38.6	72.4	30.5	43.1	28.5	16.2	37.3	32.9	11.8	28.4
ND97-1064	36.6	35.2	75.9	30.9	43.2	32.2	18.7	32.2	37.3	13.9	27.4
ND97-1211	38.0	34.7	78.2	30.5	41.7	28.2	25.1	35.2	41.4	22.5	25.9
ND97-1763	36.3	36.4	61.8	29.5	45.5	34.2	26.2	33.3	36.3	21.9	27.6
ND98-553	39.1	42.6	77.9	32.4	40.5	33.2	17.1	41.9	38.2	23.5	25.5
ND98-677	38.7	33.2	77.6	36.1	39.7	34.6	14.8	43.0	36.4	17.5	25.1
ND98-817	32.5	34.0	62.1	30.3	39.8	25.8	14.6	39.1	27.5	13.3	22.1
ND98-818	34.3	37.1	66.3	30.5	40.6	27.9	20.7	38.8	30.6	16.3	23.7
ND98-1185	37.5	42.9	81.0	33.0	46.1	32.3	14.1	30.3	33.0	18.5	25.7
OAC 98-01	38.5	43.9	87.5	33.2	44.9	27.7	19.2	30.8	37.1	20.1	26.4
OAC 98-32	37.9	42.3	76.3	30.3	43.5	30.3	23.6	25.7	42.0	28.2	27.2
OAC 99-02	40.5	32.8	83.5	31.9	42.0	32.9	22.5	41.6	38.0	27.5	26.8
OAC 00-05	27.6	41.8	49.9	24.2	40.7	24.2	15.3	20.9	21.5	17.8	21.2
OAC 00-09	41.2	34.3	86.4	37.1	42.2	27.7	15.9	32.8	45.5	31.2	27.0
OAC 00-10	33.3	35.9	57.0	30.2	41.8	26.7	21.3	31.8	33.0	22.0	23.8
OAC 00-11	38.6	40.8	73.6	36.7	44.2	27.0	26.2	37.5	43.0	20.6	26.4
C.V. (%)		19.6	8.6	11.2	11.0	10.9	17.2	13.6	12.1	10.2	7.0
L.S.D. (5%)		12.1	8.5	5.8	7.5	5.2	4.4	7.5	5.7	2.9	2.9
Row Sp. (in.)		7.5	8	12	10	10	7.5	30	8	14	7
Rows/Plot		7	5	8	8	8	5	4	6	4	5
Reps		3	3	3	3	3	3	3	3	3	3

\* Data not included in mean.

UNIFORM TEST 00, 2001

YIELD RANK

Strain	Yield Rank	Fatyette- ville AR	Morden MB	Crook- ston MN	Moor- head MN	Shelly MN	Portage* ville MO	Cassel- ton ND	Beach- burg Ont.	Elora Ont.	St. Bruno Montarville Que.
McCall (00)	30	26	23	15	30	25	16	29	27	21	31
Jim	17	6	12	5	6	7	9	27	18	26	23
Glacier	27	15	7	26	29	31	18	24	24	24	27
Traill (0)	10	19	21	7	17	1	19	7	19	11	19
M93-310162	26	25	6	29	31	29	26	20	16	18	28
M94-135066	22	8	10	27	15	16	8	28	17	28	13
M94-147018	13	1	13	27	13	12	14	10	23	6	14
M94-161151	7	30	4	23	25	13	24	17	5	9	22
M95-116011	19	14	18	30	26	18	21	12	15	14	17
M95-210105	14	20	25	3	11	11	17	11	14	17	1
M95-210107	21	29	16	6	4	27	29	23	26	25	21
M95-211007	12	17	22	9	1	14	29	6	12	22	2
M95-236058	22	12	27	7	20	8	12	5	28	31	3
M95-290065	20	31	30	13	8	3	11	16	10	20	5
M95-301020	25	9	20	24	21	28	5	1	30	30	25
ND97-935	18	11	19	17	11	17	22	14	22	29	4
ND97-1064	15	21	15	16	10	10	14	21	8	23	7
ND97-1211	7	22	8	18	19	19	3	15	4	5	15
ND97-1763	16	16	27	24	3	3	1	17	13	8	6
ND98-553	3	4	9	12	24	5	20	3	6	4	18
ND98-677	4	27	11	4	28	2	27	2	11	16	20
ND98-817	29	24	26	20	27	26	28	8	29	27	29
ND98-818	24	13	24	18	23	20	10	9	25	19	26
ND98-1185	10	3	5	11	1	9	31	26	21	13	16
OAC 98-01	6	2	1	9	5	21	13	25	9	12	11
OAC 98-32	9	5	14	20	9	15	4	29	3	2	8
OAC 99-02	2	28	3	14	15	6	6	4	7	3	10
OAC 00-05	31	7	31	31	22	30	25	31	31	15	30
OAC 00-09	1	23	2	1	14	21	23	19	1	1	9
OAC 00-10	28	18	29	22	18	24	7	22	20	7	24
OAC 00-11	5	10	17	2	7	23	1	12	2	10	12

\*Data not included in mean.

UNIFORM TEST 00, 2001

MATURITY (date)

Strain	Mean 8 Tests	Fatyet- ville AR	Morden MB	Crook- ston MN	Moor- head MN	Shelly MN	Portage* ville MO	Cassel- ton ND	Beach- burg Ont.	Elora Ont.	St. Bruno Montarville Que.
McCall (00)	9/14	7/12	9/21	9/9	9/10	9/11	7/6	9/13	9/29	9/12	9/7
Jim	1.8	3	4	2	4	7	+5	0	-5	2	0
Glacier	1.9	3	4	3	3	6	-3	0	0	-1	0
Trail (0)	5.6	3	4	10	7	11	+1	6	4	3	+4
M93-310162	0.9	2	-1	2	3	2	-3	2	-1	0	+1
M94-135066	1.0	1	-2	2	2	2	+3	-2	3	3	0
M94-147018	7.1	2	7	13	12	13	+2	4	4	4	+10
M94-161151	3.3	0	6	1	7	8	-2	0	3	1	+6
M95-116011	1.6	1	0	3	4	4	-4	1	2	-1	+1
M95-210105	6.3	2	8	3	9	10	+1	2	5	13	+10
M95-210107	2.5	4	3	2	6	5	-1	1	-1	4	+6
M95-211007	5.1	0	7	5	10	9	-2	-1	4	7	+5
M95-236058	10.1	2	9	12	13	13	0	10	9	15	+11
M95-290065	9.1	2	7	11	13	13	+4	10	6	13	+13
M95-301020	7.1	5	6	10	10	11	+4	11	7	2	+6
ND97-935	6.4	1	6	6	10	11	-1	1	5	12	+10
ND97-1064	5.4	2	7	7	8	10	-2	5	5	1	+7
ND97-1211	5.6	6	6	6	9	10	+3	4	5	5	+5
ND97-1763	6.4	3	5	7	8	10	+6	9	7	5	+4
ND98-553	4.8	4	5	3	10	11	+1	1	6	2	+6
ND98-677	5.4	4	6	6	9	10	+2	6	3	3	+4
ND98-817	6.3	0	7	7	8	11	0	10	6	1	+5
ND98-818	5.3	3	5	10	10	11	+1	2	4	0	+4
ND98-1185	6.3	3	7	11	10	11	-2	2	4	5	+9
OAC 98-01	6.3	4	5	9	10	11	+6	3	1	11	+5
OAC 98-32	7.6	4	4	10	15	13	+6	8	4	7	+9
OAC 99-02	7.6	1	6	12	15	13	+2	9	6	0	+5
OAC 00-05	-0.1	1	3	-1	3	4	-3	-2	-6	-2	0
OAC 00-09	3.0	3	6	0	7	7	+1	0	2	2	+7
OAC 00-10	3.5	2	5	3	7	9	+3	3	1	0	+4
OAC 00-11	4.0	5	5	3	8	12	+5	0	0	4	+5
Date Planted	5/28	4/25	5/25	5/18	6/5	6/4	4/19	5/27	5/31	6/8	5/20
Days to Mature	108.1	78	119	114	97	99	78	109	121	96	110

\* Data not included in mean.

UNIFORM TEST 00, 2001

LODGING (score)

Strain	Mean 7 Tests	Fatyet- ville AR*	Morden MB	Crook- ston MN	Moor- head MN	Shelly MN	Portage* ville MO	Cassel- ton ND	Beach- burg Ont.	Elora Ont.	St. Bruno Montarville Que.
McCall (00)	1.4	1.0		2.0	1.0	2.0	1.0	1.0	1.7	1.0	1.0
Jim	1.4	1.0		2.0	1.3	2.0	1.0	1.0	1.6	1.0	1.0
Glacier	1.6	1.0		1.7	1.7	2.3	1.0	1.0	2.5	1.0	1.0
Traill (0)	1.6	1.0		2.3	1.0	3.0	1.0	1.0	2.2	1.0	1.0
M93-310162	1.4	1.0		1.7	1.0	1.7	1.0	1.0	2.2	1.0	1.0
M94-135066	1.4	1.0		1.7	1.0	2.7	1.0	1.0	1.7	1.0	1.0
M94-147018	1.9	1.0		1.7	2.7	3.3	1.0	1.0	2.6	1.2	1.0
M94-161151	1.3	1.0		1.7	1.0	2.3	1.0	1.0	1.4	1.0	1.0
M95-116011	1.3	1.0		1.7	1.0	1.3	1.0	1.0	2.0	1.0	1.0
M95-210105	1.2	1.0		1.3	1.0	1.0	1.0	1.0	1.8	1.0	1.0
M95-210107	1.1	1.0		1.0	1.0	1.0	1.0	1.0	1.5	1.0	1.0
M95-211007	1.5	1.0		2.0	1.0	2.3	1.0	1.0	2.2	1.0	1.0
M95-236058	2.2	1.0		2.7	3.0	3.0	1.0	1.0	3.3	1.2	1.0
M95-290065	2.2	1.0		2.7	3.0	4.0	1.0	1.3	2.5	1.0	1.0
M95-301020	2.3	1.0		2.7	2.3	3.3	1.0	3.0	2.7	1.0	1.0
ND97-935	2.0	1.0		2.3	2.3	3.7	1.0	1.3	2.5	1.0	1.0
ND97-1064	1.5	1.0		1.7	1.0	2.3	1.0	1.3	2.1	1.0	1.0
ND97-1211	1.4	1.0		1.7	1.3	2.0	1.0	1.0	1.9	1.0	1.0
ND97-1763	1.4	1.0		2.0	1.0	2.0	1.0	1.0	1.6	1.0	1.0
ND98-553	1.6	1.0		2.0	1.0	2.7	1.0	1.0	2.6	1.0	1.0
ND98-677	1.7	1.0		2.0	1.0	3.0	1.0	1.7	1.9	1.0	1.0
ND98-817	1.7	1.0		2.0	1.7	3.0	1.0	1.3	1.8	1.0	1.3
ND98-818	2.0	1.0		2.3	2.3	3.0	1.0	1.3	2.7	1.0	1.3
ND98-1185	1.4	1.0		1.7	1.0	2.3	1.0	1.0	1.9	1.0	1.0
OAC 98-01	2.4	1.0		2.7	2.0	3.7	1.0	1.7	3.4	1.8	1.7
OAC 98-32	1.3	1.0		1.3	1.3	1.7	1.0	1.0	1.6	1.0	1.0
OAC 99-02	2.0	1.0		2.0	2.7	3.0	1.0	1.3	2.7	1.2	1.0
OAC 00-05	1.8	1.0		1.3	1.7	2.0	1.0	1.3	2.4	1.0	2.7
OAC 00-09	1.2	1.0		1.3	1.0	1.0	1.0	1.0	2.4	1.0	1.0
OAC 00-10	1.1	1.0		1.0	1.0	1.7	1.0	1.0	1.3	1.0	1.0
OAC 00-11	1.2	1.0		1.0	1.0	1.3	1.0	1.0	1.9	1.0	1.0

\*Data not included in mean.

## UNIFORM TEST 00, 2001

## PLANT HEIGHT (inches)

Strain	Mean 8 Tests	Fatyet- ville* AR	Morden MB	Crook- ston MN	Moor- head MN	Shelly MN	Portage* ville MO	Cassel- ton ND	Beach- burg Ont.	Elora Ont.	St. Bruno Montarville Que.
McCall (00)	31	16	47	31	34	37	10	21	30	25	27
Jim	31	16	47	30	32	35	12	21	27	27	28
Glacier	31	18	45	28	36	36	10	24	30	25	27
Traill (0)	33	17	49	33	37	37	9	23	32	24	28
M93-310162	30	18	45	24	32	33	9	24	29	25	26
M94-135066	34	21	48	30	37	38	11	27	32	30	29
M94-147018	36	19	50	27	43	41	10	27	35	31	30
M94-161151	32	18	46	26	33	38	10	25	35	27	28
M95-116011	30	17	45	22	34	34	10	25	31	25	26
M95-210105	33	17	45	28	37	36	10	27	32	28	28
M95-210107	29	16	44	25	32	32	9	22	29	25	25
M95-211007	34	16	48	32	36	35	9	29	33	28	29
M95-236058	36	19	49	37	41	41	10	28	34	27	31
M95-290065	37	15	50	34	41	43	11	32	34	28	31
M95-301020	33	19	46	33	35	38	11	27	33	26	27
ND97-935	34	19	48	29	41	37	10	29	30	25	30
ND97-1064	32	16	48	29	31	33	9	23	34	27	30
ND97-1211	31	19	45	28	34	35	10	25	31	26	27
ND97-1763	35	21	49	34	35	39	13	27	34	34	31
ND98-553	33	19	49	33	36	39	10	28	30	27	20
ND98-677	34	17	49	35	38	38	9	28	31	27	30
ND98-817	33	17	46	33	37	36	10	26	31	28	29
ND98-818	34	19	46	30	38	38	11	29	34	27	28
ND98-1185	31	16	47	27	34	37	8	23	32	24	22
OAC 98-01	35	18	49	34	38	45	11	25	31	32	29
OAC 98-32	32	21	44	30	39	35	12	23	31	27	28
OAC 99-02	36	17	47	29	43	38	11	32	37	30	31
OAC 00-05	32	20	46	24	38	38	9	20	33	29	27
OAC 00-09	31	16	46	28	30	33	10	23	32	28	27
OAC 00-10	33	19	47	27	35	37	12	27	31	28	29
OAC 00-11	30	16	43	24	30	34	11	23	31	27	25

\* Data not included in mean.

UNIFORM TEST 00, 2001

SEED SIZE (g/100)

Strain	Mean 7 Tests	Fatyet- ville* AR	Morden MB	Crook- ston MN	Moor- head MN	Shelly MN	Portage* ville MO	Cassel- ton ND	Beach- burg Ont.	Elora Ont.	St. Bruno Montarville Que.
McCall (00)	13.7	13.1		12.6	12.6	14.0	12.4	13.2	15.6	13.2	14.5
Jim	15.3	13.0		14.8	14.8	15.5	12.5	15.2	16.1	14.2	16.8
Glacier	13.9	13.8		13.3	13.3	13.2	13.4	13.6	16.9	12.8	14.0
Trall (0)	15.5	13.4		14.8	14.8	14.2	13.5	15.7	17.9	13.8	17.4
M93-310162	12.7	11.5		11.7	11.7	11.5	11.7	12.8	15.0	12.8	13.7
M94-135066	14.8	13.6		14.4	14.4	13.9	13.2	14.3	16.6	13.6	16.7
M94-147018	13.9	12.7		13.6	13.6	12.2	12.8	13.9	16.2	12.5	15.2
M94-161151	13.8	12.0		13.1	13.1	14.0	11.4	13.2	15.9	12.2	14.9
M95-116011	16.6	15.0		16.0	16.0	15.6	13.6	17.0	20.0	14.8	16.8
M95-210105	14.5	11.3		13.0	13.0	14.2	11.9	14.3	15.3	15.5	16.3
M95-210107	14.2	12.2		12.6	12.6	13.1	11.2	13.8	17.1	14.5	15.6
M95-211007	15.4	12.4		14.3	14.3	13.6	10.8	15.2	17.2	15.9	17.2
M95-236058	16.3	12.1		14.7	14.7	14.6	13.3	17.1	19.1	15.6	18.1
M95-290065	13.4	12.2		13.0	13.0	10.9	11.8	13.6	15.2	12.4	15.8
M95-301020	14.5	12.3		12.8	12.8	12.6	14.0	14.7	17.7	13.6	17.2
ND97-935	13.7	12.5		12.0	12.0	12.2	12.8	13.6	15.6	14.2	16.0
ND97-1064	14.4	12.0		12.9	12.9	14.1	12.9	15.0	16.8	12.5	16.6
ND97-1211	16.1	13.6		14.5	14.5	15.5	15.5	16.2	18.8	15.5	17.5
ND97-1763	14.3	12.2		12.5	12.5	12.8	14.6	15.6	16.6	14.1	16.2
ND98-553	17.1	15.1		16.2	16.2	16.1	15.8	16.9	18.8	16.7	18.8
ND98-677	15.5	13.2		15.2	15.2	14.4	13.0	15.7	17.0	13.9	17.2
ND98-817	14.7	12.5		13.1	13.1	13.5	13.0	15.6	16.8	14.8	16.1
ND98-818	16.2	14.9		14.6	14.6	16.3	14.6	16.8	18.7	16.0	16.7
ND98-1185	14.9	12.4		14.8	14.8	13.8	12.3	15.6	15.2	13.5	16.3
OAC 98-01	13.1	13.2		12.4	12.4	11.5	11.9	13.3	15.5	12.4	14.2
OAC 98-32	16.9	14.1		13.9	13.9	15.3	16.7	16.5	19.5	19.3	20.1
OAC 99-02	16.5	12.8		16.0	16.0	15.8	15.0	17.1	18.9	15.1	16.9
OAC 00-05	15.1	16.1		14.0	14.0	15.8	14.1	14.7	17.3	14.2	15.8
OAC 00-09	15.3	13.7		14.4	14.4	14.4	14.0	15.0	18.3	15.3	15.5
OAC 00-10	14.9	14.8		14.0	14.0	14.9	13.5	15.1	17.0	13.7	15.5
OAC 00-11	15.1	13.5		15.3	15.3	14.9	13.4	14.9	17.4	13.3	14.8

\* Data not included in mean.

## UNIFORM TEST 00, 2001

## SEED QUALITY (score)

Strain	Mean 5 Tests	Fatyet- ville AR	Morden MB	Crook- ston MN	Moor- head MN	Shelly MN	Portage* ville MO	Cassel- ton ND	Beach- burg Ont.	Elora Ont.	St. Bruno Montarville Que.
McCall (00)	2.0			2.3	2.3	1.7	3.0			1.5	2.0
Jim	1.6			2.0	2.0	1.3	3.0			1.5	1.3
Glacier	1.6			1.7	1.7	1.7	3.0			1.5	1.3
Traill (0)	1.5			1.3	1.3	1.7	3.0			1.0	2.3
M93-310162	1.4			1.3	1.3	1.3	3.0			1.0	2.0
M94-135066	1.5			2.0	2.0	1.3	3.0			1.0	1.0
M94-147018	1.4			1.3	1.3	1.7	3.0			1.0	1.7
M94-161151	1.2			1.3	1.3	1.3	3.0			1.0	1.3
M95-116011	1.5			1.3	1.3	1.7	3.0			1.0	2.3
M95-210105	1.3			1.0	1.0	1.3	3.0			1.0	2.3
M95-210107	1.6			1.3	1.3	1.3	3.0			1.5	2.7
M95-211007	1.4			1.0	1.0	1.7	3.0			1.5	2.0
M95-236058	1.8			1.3	1.3	2.0	3.0			1.5	2.7
M95-290065	1.6			1.7	1.7	1.3	3.0			1.0	2.3
M95-301020	1.6			1.3	1.3	1.7	3.0			1.0	2.7
ND97-935	1.3			1.0	1.0	2.0	3.0			1.0	1.7
ND97-1064	1.6			1.3	1.3	1.7	4.0			1.5	2.3
ND97-1211	1.2			1.0	1.0	1.0	3.0			1.5	1.7
ND97-1763	1.6			1.0	1.0	1.3	3.0			1.5	3.0
ND98-553	1.7			1.3	1.3	2.0	4.0			1.5	2.3
ND98-677	1.8			1.3	1.3	1.7	3.0			1.5	3.0
ND98-817	1.6			1.3	1.3	2.0	4.0			1.5	1.7
ND98-818	1.2			1.3	1.3	1.3	3.0			1.0	1.3
ND98-1185	1.5			1.3	1.3	1.0	3.0			1.5	2.3
OAC 98-01	1.2			1.0	1.0	1.3	3.0			1.5	1.3
OAC 98-32	1.1			1.0	1.0	1.7	4.0			1.0	1.0
OAC 99-02	1.8			2.0	2.0	2.3	4.0			1.5	1.3
OAC 00-05	1.5			1.3	1.3	2.0	3.0			1.0	1.7
OAC 00-09	1.4			1.7	1.7	1.7	3.0			1.0	1.0
OAC 00-10	1.2			1.3	1.3	1.3	3.0			1.0	1.0
OAC 00-11	1.6			1.3	1.3	1.7	3.0			1.5	2.3

\* Data not included in mean.

## UNIFORM TEST 00, 2001

## PROTEIN (%)

Strain	Mean 5 Tests	Crookston MN	Moorhead MN	Casselton ND	Elora Ont.	Saint Bruno de Montarville Que.
McCall (00)	39.1	40.2	36.6	37.2	42.8	38.8
Jim	40.1	39.4	38.1	38.7	44.0	40.3
Glacier	39.6	38.5	37.8	38.9	43.2	39.4
Traill (0)	40.8	41.0	38.8	39.8	43.5	41.0
M93-310162	40.7	40.0	39.4	39.8	44.2	39.8
M94-135066	39.5	38.6	36.0	39.7	44.6	38.7
M94-147018	40.5	40.5	38.9	39.9	43.3	39.7
M94-161151	39.7	39.1	39.1	38.2	42.8	39.1
M95-116011	40.2	40.2	37.6	38.7	44.1	40.4
M95-210105	38.8	38.3	36.4	38.5	43.0	38.1
M95-210107	39.5	38.7	37.1	38.8	43.9	38.9
M95-211007	40.2	39.6	37.7	38.3	45.4	39.8
M95-236058	40.7	40.6	38.0	39.8	45.0	39.9
M95-290065	40.4	39.7	37.8	39.7	45.2	39.8
M95-301020	41.1	39.4	38.1	40.6	46.2	41.4
ND97-935	39.7	37.6	37.7	38.6	44.5	39.9
ND97-1064	41.0	39.8	39.2	39.8	45.2	40.8
ND97-1211	40.5	39.7	38.9	39.6	44.0	40.4
ND97-1763	38.0	38.3	36.5	37.4	41.7	36.1
ND98-553	41.2	40.0	41.3	39.9	43.6	41.3
ND98-677	40.8	40.5	38.4	40.2	44.1	40.8
ND98-817	39.9	38.8	37.9	39.1	43.7	40.1
ND98-818	40.8	39.7	39.8	39.3	44.2	40.8
ND98-1185	39.6	38.7	37.6	39.0	43.8	39.0
OAC 98-01	39.8	39.5	36.6	38.9	44.8	39.4
OAC 98-32	39.1	37.2	38.0	38.7	42.4	39.1
OAC 99-02	38.5	38.6	36.6	37.6	42.3	37.2
OAC 00-05	40.4	39.3	38.8	40.0	43.7	40.3
OAC 00-09	39.8	39.8	38.4	39.3	42.5	39.0
OAC 00-10	39.9	39.4	38.1	40.6	42.5	38.9
OAC 00-11	38.6	38.9	37.6	37.2	41.7	37.5



**UNIFORM TEST 00, 2001**

**OIL (%)**

Strain	Mean 5 Tests	Crookston MN	Moorhead MN	Casselton ND	Elora Ont.	Saint Bruno de Montarville Que.
McCall (00)	21.3	20.3	21.8	21.9	19.2	23.3
Jim	20.9	20.6	21.6	21.8	18.5	22.2
Glacier	21.0	20.7	21.2	21.2	18.9	22.9
Traill (0)	20.9	20.1	21.4	20.9	19.7	22.5
M93-310162	21.4	20.6	21.2	21.7	19.5	23.8
M94-135066	21.9	21.6	22.5	21.2	19.6	24.4
M94-147018	21.4	21.0	21.5	21.4	19.7	23.3
M94-161151	21.7	21.6	20.8	22.3	19.9	23.7
M95-116011	20.9	20.4	21.6	21.3	18.8	22.5
M95-210105	22.6	22.0	23.3	22.0	20.7	24.9
M95-210107	22.5	21.8	23.1	22.2	20.5	24.8
M95-211007	21.7	21.5	22.3	22.2	18.9	23.5
M95-236058	20.6	20.0	20.6	20.4	19.0	22.8
M95-290065	20.5	20.2	21.0	20.6	18.5	22.3
M95-301020	20.4	20.4	21.2	20.5	18.0	22.0
ND97-935	21.2	21.6	21.2	21.6	18.8	22.6
ND97-1064	20.7	20.5	20.9	21.4	18.3	22.6
ND97-1211	21.3	21.1	21.4	21.6	19.2	23.2
ND97-1763	21.9	21.1	22.1	21.8	20.1	24.2
ND98-553	20.8	20.5	19.9	21.6	19.8	22.2
ND98-677	20.9	20.5	21.3	21.0	19.3	22.5
ND98-817	21.0	20.5	20.9	21.2	19.5	22.9
ND98-818	20.9	20.6	20.6	21.5	19.2	22.4
ND98-1185	21.4	21.4	21.7	21.6	19.5	22.9
OAC 98-01	22.2	21.7	22.7	22.2	19.6	24.6
OAC 98-32	22.0	21.8	21.3	22.2	21.2	23.6
OAC 99-02	21.9	20.8	21.3	21.9	21.3	24.2
OAC 00-05	20.7	20.4	20.9	20.6	19.1	22.5
OAC 00-09	21.3	20.6	21.4	21.4	20.2	23.0
OAC 00-10	21.4	21.2	21.7	20.5	20.2	23.4
OAC 00-11	22.2	21.6	21.9	22.7	20.7	24.0

Uniform Test 0, 2001

Strain	Parentage	Previous Testing	Generation Composited	Unique Traits
1. Lambert (0)	M75-274 x M76-151	13	F5	Rps1
2. Parker (1)	A79-136012 x Dawson	10	F5	Rps1
3. Surge (0)	A86-204022 x Kato	2	F5	
4. Traill (E)	M82-996 x Sigco KG20	5	F5	
5. MN0902CN (SCN)	Jack x Alpha	4	F5	SCN
6. M92-185003	Archer a Glacier	1	F5	Rps1k, Rps6
7. M92-285024	Sturdy x Evans	1	F5	Rps1a
8. M94-161045	IA1006 x Agassiz	UT00	F5	Rps1, BSR
9. M94-175050	M89-1815 x ORC 9002	PT0	F5	Rps1c
10. M94-176021	Lambert x OT92-2	PT0	F5	Rps1
11. M94-176109	Lambert x OT92-2	PT0	F5	Rps1
12. M94-190023	M92-674 x Bert	PT0	F5	Rps1
13. M94-275024	M89-1006 x Kato	PT0	F5	Rps1c
14. M95-123023	Parker x M92-1631	PT0	F4	SCN
15. M95-123116	Parker x M92-1631	PT0	F4	SCN
16. ND95-931 (Barnes)	ND88-800 x Pioneer P9061	2	F4	Rps6
17. ND95-1564	Parker x Pioneer P9061	PT0	F5	
18. ND96-1593	ND88-800 x Council	1	F5	Rps6
19. ND96-8929	ND88-800 x Council	1	F5	Rps6
20. OAC 98-02	S 02-30 x M87-170	1	F5	
21. OAC 99-17	M88-207 x OAC 92-08	PT0	F5	
22. OAC 99-36	OAC Bayfield x A Marcus BC	PT0	F5	
23. ORC 9901	Northrup King S24-92 x RCAT Bobcat	PT0	F5	
24. ORC 9902	Northrup King S24-92 x OAC Bayfield	PT0	F5	
25. SD96-702	ORC 9002 x Ozzie	1	F5	
26. SD97-749	Agassiz x Kenwood	PT0	F5	
27. SD97-2154	SL91-1736M x SL91-1574M	PT0	F5	
28. SD97-2585	SL91-1628M x SL91-1574M	PT0	F5	
29. SD97-2915	Leslie x SL93-3343	PT0	F5	

## UNIFORM TEST 0, 2001

## DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	<u>BSR</u>	<u>Shattering</u>	<u>Stand</u>	<u>Chlorosis</u>	<u>PR</u>	
		Score Arlington	Score Manhattan	Score Arlington	Score Yellow Medicine Co.	Race 4	Race 7
Lambert (0)	PGBIYBII	0.0	1.0	10.0	4.3	H	S
Parker (I)	WGBSYBfI	2.3	1.0	10.0	4.5	S	S
Surge (0)	PGBDYIbI	0.0	1.0	9.3	4.2	S	R
Trall (E)	PTBDYYI	0.0	1.0	10.0	3.9	H	R
MN0902CN (SCN)	WTBSYYI	0.0	1.0	8.0	3.9	H	R
M92-185003	PGTDYIbI	0.0	1.0	9.3	3.3	R	R
M92-285024	PGBSYbI	1.7	1.0	10.0	4.2	S	S
M94-161045	WGBDYBfI	0.0	2.0	10.0	3.8	S	S
M94-175050	P+WT+GBSYYI	0.0	1.0	10.0	4.5	S	S
M94-176021	PGBDYBfI	0.0	1.0	10.0	4.2	S	S
M94-176109	PTBSYBrI	0.0	2.0	10.0	4.3	S	S
M94-190023	PGBDYBfI	0.0	1.0	10.0	4.0	S	S
M94-275024	PGBDYBII	0.0	1.0	9.3	4.0	S	R
M95-123023	WTBIYBrI	1.0	1.0	8.0	4.3	S	S
M95-123116	PTTDYBrI	1.3	1.0	8.7	3.4	S	R
ND95-931 (Barnes)	PGBDYBfI	0.0	1.0	10.0	3.7	R	S
ND95-1564	P+WGBDYBfI	3.0	2.0	9.3	4.2	S	S
ND96-1593	WGBSYYI	1.3	1.0	9.3	3.9	R	S
ND96-8929	PGBSYYI	0.0	1.0	9.3	4.0	R	S
OAC 98-02	PTBIYBrI	0.0	1.0	10.0	4.0	R	S
OAC 99-17	PTBSYYI	1.3	1.0	8.7	4.7	S	S
OAC 99-36	WTBDYBrI	1.0	1.0	10.0	4.7	S	S
ORC 9901	PTBDYYI	3.3	1.0	8.7	4.2	R	S
ORC 9902	PTBDYBII	0.3	3.0	10.0	4.2	H	S
SD96-702	PGBIYBfI	0.0	1.0	8.7	3.9	S	S
SD97-749	PGBSYBrI	2.3	1.0	10.0	4.2	S	S
SD97-2154	PTBSYBrI	1.8	1.0	9.8	4.2	S	R
SD97-2585	P+WTTSYBII	1.3	1.0	10.0	4.5	S	S
SD97-2915	PTBSYBrI	1.7	1.0	10.0	4.4	S	S

UNIFORM TEST 0, 2001

REGIONAL SUMMARY

No. of Tests Strain	Yield 7 bu/a	Rank 7 No.	Maturity 8 Date	Lodging 8 Score	Plant Height 8 In.	Seed Size 8 g/100	Seed Quality 6 Score	Composition	
								Protein 5 %	Oil 5 %
Lambert (0)	37.5	5	9/16	1.3	28	15.1	2.0	40.2	21.6
Parker (I)	39.4	2	11.1	2.0	33	17.6	1.7	40.0	20.7
Surge (0)	36.1	6	5.2	1.3	26	18.7	2.2	41.8	20.6
Traill (E)	27.5	28	-6.3	1.3	25	14.4	2.0	40.9	21.1
MN0902CN (SCN)	30.8	23	3.4	1.4	28	13.0	1.7	41.8	19.7
M92-185003	31.9	20	-4.0	1.4	26	15.3	2.0	39.8	21.3
M92-285024	38.7	3	1.6	1.8	33	16.1	1.5	39.6	20.8
M94-161045	26.1	29	-4.0	1.2	25	13.0	2.2	39.6	21.3
M94-175050	33.1	17	-2.6	1.1	27	15.1	1.7	40.6	20.8
M94-176021	34.4	13	1.7	1.5	28	15.1	2.3	40.1	21.3
M94-176109	31.9	21	-1.1	1.2	26	13.5	1.9	40.8	21.1
M94-190023	29.1	27	-3.9	1.2	27	13.6	1.6	40.8	21.2
M94-275024	30.2	24	-3.0	1.2	27	16.0	2.2	41.9	20.1
M95-123023	34.7	11	3.3	1.0	28	15.9	2.0	39.4	21.5
M95-123116	32.5	18	4.6	1.1	27	15.3	1.8	39.7	21.3
ND95-931 (Barnes)	30.1	25	-2.8	1.1	25	16.1	2.1	39.7	21.9
ND95-1564	34.4	13	5.0	1.7	31	15.6	2.0	38.7	21.0
ND96-1593	33.8	16	3.8	1.3	28	16.7	1.8	39.9	21.2
ND96-8929	29.3	26	-5.6	1.2	25	15.5	2.0	39.4	22.0
OAC 98-02	35.1	9	1.3	1.6	28	17.8	2.1	40.9	19.9
OAC 99-17	31.2	22	2.4	1.4	30	17.3	2.0	39.2	21.1
OAC 99-36	34.3	15	2.4	1.4	27	15.9	1.8	39.2	21.1
ORC 9901	35.8	8	6.2	1.1	29	16.5	1.5	39.7	21.3
ORC 9902	41.7	1	9.7	1.0	28	16.7	1.6	41.6	20.0
SD96-702	34.6	12	2.3	1.1	29	16.1	2.1	39.1	21.7
SD97-749	38.0	4	5.8	1.4	29	15.1	2.0	39.0	21.0
SD97-2154	32.5	18	4.0	1.5	26	18.8	2.1	40.2	20.5
SD97-2585	36.1	6	3.3	1.2	26	18.4	1.7	41.9	20.3
SD97-2915	35.0	10	5.1	1.4	28	17.4	2.3	41.3	20.6

122.0 Days After Planting

**UNIFORM TEST 0, 2001**  
**2000-2001 2-YEAR MEAN**

No. of Tests Strain	Yield 16 bu/a	Rank 16 No.	Maturity 17 Date	Lodging 17 Score	Plant Height 17 In.	Seed Size 17 g/100	Composition	
							Protein 10 %	Oil 10 %
Lambert (0)	41.9	4	9/18	1.3	29	15.6	40.8	21.2
Parker (I)	43.4	1	8.5	1.8	33	17.2	40.6	20.3
Surge (0)	42.1	3	3.6	1.2	28	19.0	42.3	20.2
Trall (E)	32.7	12	-5.9	1.4	26	15.6	41.7	20.2
MN0902CN (SCN)	37.3	8	1.4	1.4	29	13.8	42.5	19.3
M92-185003	36.6	9	-3.8	1.4	27	16.1	40.6	20.9
M92-285024	42.8	2	1.5	1.7	34	16.4	40.1	20.2
ND95-931 (Barnes)	37.7	10	-3.8	1.2	27	16.7	40.2	21.5
ND96-1593	40.2	6	2.5	1.4	29	17.5	40.6	20.6
ND96-8929	34.5	11	-6.0	1.2	26	16.3	40.4	21.2
OAC 98-02	40.9	5	1.1	1.7	30	18.2	40.8	19.9
SD96-702	40.1	7	1.9	1.3	30	16.1	39.6	21.1

124.4 Days After Planting

**1999-2001 3-YEAR MEAN**

No. of Tests Strain	25	25	26	26	26	26	14	14
Lambert (0)	43.9	3	9/17	1.4	30	15.9	41.1	21.2
Parker (I)	46.3	1	8.5	2.0	35	17.5	40.8	20.4
Surge (0)	45.8	2	3.3	1.3	29	19.4	42.2	20.4
Trall (E)	36.1	6	-7.0	1.5	27	15.6	41.4	20.2
MN0902CN (SCN)	40.6	4	1.5	1.5	31	13.9	42.5	19.5
ND95-931 (Barnes)	40.0	5	-4.1	1.3	29	16.9	40.4	21.5

124.1 Days After Planting

UNIFORM TEST 0, 2001

YIELD (bu/a)

Strain	Mean 7 Tests	Fayetteville* AR	Morris MN	Rose-* mount MN	Portage* ville MO	Cassel- ton ND
Lambert (0)	37.5	28.6	47.3	15.3	29.4	33.4
Parker (I)	39.4	29.9	47.6	22.4	41.3	44.8
Surge (0)	36.1	26.9	42.0	18.6	38.7	43.7
Traill (E)	27.5	23.1	38.9	15.2	19.0	32.9
MN0902CN (SCN)	30.8	35.9	44.1	17.0	24.6	42.9
M92-185003	31.9	34.9	44.8	16.6	23.8	35.5
M92-285024	38.7	45.8	52.1	27.1	43.0	38.5
M94-161045	26.1	28.1	32.5	8.7	16.1	40.2
M94-175050	33.1	34.5	44.5	13.9	33.8	37.8
M94-176021	34.4	23.9	48.9	13.7	23.9	45.4
M94-176109	31.9	35.4	47.0	13.5	21.3	44.4
M94-190023	29.1	24.1	39.9	17.4	17.2	29.1
M94-275024	30.2	27.0	39.8	16.4	22.6	43.7
M95-123023	34.7	31.9	50.5	19.6	37.7	35.0
M95-123116	32.5	27.0	38.8	16.0	24.8	45.2
ND95-931 (Barnes)	30.1	26.2	32.7	12.7	26.4	34.0
ND95-1564	34.4	24.3	25.0	20.9	35.1	43.7
ND96-1593	33.8	27.3	43.0	17.2	24.9	41.4
ND96-8929	29.3	26.0	38.9	16.9	24.4	35.1
OAC 98-02	35.1	29.7	51.8	13.3	31.3	42.4
OAC 99-17	31.2	41.6		25.5	31.0	29.4
OAC 99-36	34.3	35.9	29.4	21.7	35.8	35.9
ORC 9901	35.8	38.2	38.8	22.9	38.5	39.6
ORC 9902	41.7	44.1	52.2	21.4	49.7	44.3
SD96-702	34.6	30.1	46.7	21.6	24.1	40.1
SD97-749	38.0	24.8	37.3	24.3	46.9	44.8
SD97-2154	32.5	39.8	42.6	18.8	20.5	40.1
SD97-2585	36.1	28.6	45.2	16.2	36.6	43.6
SD97-2915	35.0	34.1	42.4	17.6	42.2	30.0
C.V. (%)		18.0	9.0	20.2	11.2	18.1
L.S.D. (5%)		9.5	6.0	5.9	4.7	16.0
Row Sp. (In.)		7.5	10	10	7.5	30
Rows/Plot		7	10	10	5	4
Reps		3	3	3	3	3

\* Data not included in mean. Note OAC 99-17 severely impacted by iron chlorosis at Morris, MN no usable data!

UNIFORM TEST 0, 2001

YIELD (bu/a)

Strain	Ottawa Ont.	Woodstock Ont.	St. Bruno Montarville Que.	Watertown SD	Arlington WI
Lambert (0)	37.1	24.7	35.3	37.5	47.2
Parker (1)	34.9	30.6	35.6	35.3	62.3
Surge (0)	35.0	21.9	33.5	37.0	54.7
Trall (E)	32.2	16.5	26.8	30.1	35.5
MN0902CN (SCN)	32.7	19.2	29.2	29.1	38.3
M92-185003	36.3	20.5	26.7	34.3	49.0
M92-285024	35.3	26.0	31.6	34.8	59.6
M94-161045	27.6	18.6	29.0	27.0	35.2
M94-175050	32.6	22.6	31.8	35.4	45.8
M94-176021	37.4	25.9	33.3	37.0	44.2
M94-176109	35.8	23.0	36.1	27.5	38.9
M94-190023	29.7	20.6	29.9	34.6	43.8
M94-275024	31.1	19.9	26.9	31.4	40.3
M95-123023	38.3	22.6	30.8	32.3	45.4
M95-123116	32.3	23.6	33.4	31.6	47.0
ND95-931 (Barnes)	33.5	18.3	30.0	37.2	46.1
ND95-1564	35.8	25.9	37.2	34.8	50.8
ND96-1593	36.0	23.2	36.2	36.0	46.1
ND96-8929	34.4	18.4	31.2	30.3	33.7
OAC 98-02	31.3	22.7	33.9	32.2	57.0
OAC 99-17	38.5	18.4	33.4	31.6	42.1
OAC 99-36	35.6	24.8	36.5	32.4	56.7
ORC 9901	41.4	24.6	34.0	29.2	53.2
ORC 9902	39.1	30.6	36.0	35.2	66.7
SD96-702	36.3	25.7	35.9	36.8	44.1
SD97-749	32.8	26.1	37.7	30.7	61.8
SD97-2154	34.2	22.4	34.8	33.7	45.3
SD97-2585	37.7	24.2	34.9	32.2	54.4
SD97-2915	33.6	26.5	33.3	32.1	57.2
C.V. (%)	5.0	7.9	10.4	12.6	8.1
L.S.D. (5%)	2.3	2.8	6.5	6.8	5.3
Row Sp. (In.)	16	14	7	30	15
Rows/Plot	4	4	5	4	4
Reps	3	3	3	3	3

UNIFORM TEST 0, 2001

YIELD RANK

Strain	Yield Rank	Fayetteville* AR	Morris MN	Rose- mount MN	Portage* ville MO	Cassel- ton ND
Lambert (0)	5	16	7	22	15	25
Parker (I)	2	14	6	5	5	3
Surge (0)	6	22	17	12	6	7
Traill (E)	28	29	20	23	27	26
MN0902CN (SCN)	23	6	13	16	19	11
M92-185003	20	9	11	18	23	21
M92-285024	3	1	2	1	3	18
M94-161045	29	18	26	29	29	14
M94-175050	17	10	12	24	12	19
M94-176021	13	28	5	25	22	1
M94-176109	21	8	8	26	25	5
M94-190023	27	27	18	14	28	29
M94-275024	24	20	19	19	24	7
M95-123023	11	12	4	10	8	23
M95-123116	18	20	22	21	18	2
ND95-931 (Barnes)	25	23	25	28	16	24
ND95-1564	13	26	28	9	11	7
ND96-1593	16	19	14	15	17	13
ND96-8929	26	24	20	17	20	22
OAC 98-02	9	15	3	27	13	12
OAC 99-17	22	3		2	14	28
OAC 99-36	15	6	27	6	10	20
ORC 9901	8	5	22	4	7	17
ORC 9902	1	2	1	8	1	6
SD96-702	12	13	9	7	21	15
SD97-749	4	25	24	3	2	3
SD97-2154	18	4	15	11	26	15
SD97-2585	6	16	10	20	9	10
SD97-2915	10	11	16	13	4	27

\* Data not included in mean. Note OAC 99-17 severely impacted by iron chlorosis at Morris. MN no usable data!



UNIFORM TEST 0, 2001

YIELD RANK

Strain	Ottawa Ont.	Woodstock Ont.	St. Bruno Montarville Que.	Watertown SD	Arlington WI
Lambert (0)	7	10	9	1	14
Parker (I)	16	1	8	8	2
Surge (0)	15	20	14	3	9
Traill (E)	25	29	28	25	28
MN0902CN (SCN)	22	24	25	27	27
M92-185003	8	22	29	13	13
M92-285024	14	5	20	10	5
M94-161045	29	25	26	29	29
M94-175050	23	17	19	7	18
M94-176021	6	6	17	3	21
M94-176109	12	15	5	28	26
M94-190023	28	21	24	12	23
M94-275024	27	23	27	22	25
M95-123023	4	17	22	16	19
M95-123116	24	13	16	20	15
ND95-931 (Barnes)	20	28	23	2	16
ND95-1564	11	6	2	10	12
ND96-1593	10	14	4	6	16
ND96-8929	17	26	21	24	30
OAC 98-02	26	16	13	17	7
OAC 99-17	3	26	15	20	24
OAC 99-36	13	9	3	15	8
ORC 9901	1	11	12	26	11
ORC 9902	2	1	6	9	1
SD96-702	9	8	7	5	22
SD97-749	21	4	1	23	3
SD97-2154	18	19	11	14	20
SD97-2585	5	12	10	17	10
SD97-2915	19	3	18	19	6

UNIFORM TEST 0, 2001

MATURITY (date)

Strain	Mean 8 Tests	Fayetteville* AR	Morris MN	Rose- mount MN	Portage* ville MO	Cassel- ton ND
Lambert (0)	9/16	7/18	9/22	9/3	7/15	10/1
Parker (I)	11.1	5	15	15	+7	4
Surge (0)	5.2	2	7	5	+7	3
Trail (E)	-6.3	-4	-8	-1	-4	-14
MN0902CN (SCN)	3.4	-1	6	5	0	-2
M92-185003	-4.0	-3	-5	-1	-2	-8
M92-285024	1.6	2	4	2	+5	-1
M94-161045	-4.0	-6	4	0	-7	-7
M94-175050	-2.6	-1	-4	0	-4	-7
M94-176021	1.7	-2	6	1	-1	0
M94-176109	-1.1	1	1	0	-1	-2
M94-190023	-3.9	-7	-4	-1	-4	-6
M94-275024	-3.0	-4	-1	-1	-3	-14
M95-123023	3.3	-2	14	7	+3	3
M95-123116	4.6	0	8	7	+1	2
ND95-931 (Barnes)	-2.8	-4	1	-1	-1	-3
ND95-1564	5.0	-2	12	4	+2	3
ND96-1593	3.8	-3	8	3	0	4
ND96-8929	-5.6	-5	-7	-1	-2	-15
OAC 98-02	1.3	-3	8	2	+2	-1
OAC 99-17	2.4	1		8	+5	4
OAC 99-36	2.4	3	10	7	+6	-8
ORC 9901	6.2	6	11	10	+7	4
ORC 9902	9.7	5	11	12	+7	7
SD96-702	2.3	-3	5	5	+2	-3
SD97-749	5.8	-1	8	6	+7	3
SD97-2154	4.0	3	12	5	+6	2
SD97-2585	3.3	1	5	2	+7	-2
SD97-2915	5.1	5	11	4	+8	2
Date Planted	5/17	4/25	5/17	5/12	4/19	5/27
Days to Mature	122	84	128	114	87	127

\* Data not included in mean. Note OAC 99-17 severely impacted by iron chlorosis at Morris, MN no usable data!

UNIFORM TEST 0, 2001

MATURITY (date)

Strain	Ottawa Ont.	Woodstock Ont.	St. Bruno Montarville Que.	Watertown SD	Arlington WI
Lambert (0)	9/15	9/12	10/2	9/9	9/6
Parker (I)	16	14	+6	13	12
Surge (0)	11	9	+2	3	3
Traill (E)	-13	-6	-15	-6	-2
MN0902CN (SCN)	9	1	-3	3	5
M92-185003	-7	-3	-13	-6	-2
M92-285024	1	3	-8	1	3
M94-161045	-13	-5	-10	-7	-4
M94-175050	-5	-1	-2	-2	-2
M94-176021	2	4	+4	0	0
M94-176109	-5	0	-6	-1	-2
M94-190023	-9	-3	-2	-6	-2
M94-275024	-2	-2	-6	-2	-2
M95-123023	-3	-2	-4	2	5
M95-123116	5	8	-2	1	6
ND95-931 (Barnes)	-9	-3	-10	-6	-2
ND95-1564	3	11	+4	0	7
ND96-1593	1	7	+2	2	6
ND96-8929	-9	-4	-9	-7	-2
OAC 98-02	-2	2	-1	1	0
OAC 99-17	-5	1	-5	4	5
OAC 99-36	1	3	-4	2	4
ORC 9901	2	1	-2	16	6
ORC 9902	11	14	+5	14	9
SD96-702	1	8	0	2	0
SD97-749	6	13	0	6	4
SD97-2154	2	7	-1	0	4
SD97-2585	11	7	-1	0	3
SD97-2915	8	9	+2	3	4
Date Planted	5/15	5/31	5/20	5/15	5/1
Days to Mature	123	104	135	117	128

UNIFORM TEST 0, 2001

LODGING (score)

Strain	Mean 8 Tests	Fayetteville* AR	Morris MN	Rose- mount MN	Portage* ville MO	Cassel- ton ND
Lambert (0)	1.3	1.0	1.3	2.0	1.0	1.7
Parker (I)	2.0	1.0	1.7	1.3	1.0	2.0
Surge (0)	1.3	1.0	1.0	1.7	1.0	1.3
Traill (E)	1.3	1.0	1.0	1.7	1.0	1.3
MN0902CN (SCN)	1.4	1.0	1.0	1.3	1.0	2.7
M92-185003	1.4	1.0	1.3	2.0	1.0	1.3
M92-285024	1.8	1.0	1.3	2.0	1.0	2.0
M94-161045	1.2	1.0	1.0	1.3	1.0	1.3
M94-175050	1.1	1.0	1.0	1.7	1.0	1.3
M94-176021	1.5	1.0	2.0	2.0	1.0	2.0
M94-176109	1.2	1.0	1.0	2.0	1.0	1.3
M94-190023	1.2	1.0	1.0	2.0	1.0	1.3
M94-275024	1.2	1.0	1.3	2.0	1.0	1.3
M95-123023	1.0	1.0	1.0	1.3	1.0	1.0
M95-123116	1.1	1.0	1.0	1.7	1.0	1.3
ND95-931 (Barnes)	1.1	1.0	1.0	2.0	1.0	1.0
ND95-1564	1.7	1.0	1.0	2.0	1.0	1.7
ND96-1593	1.3	1.0	1.0	1.0	1.0	1.7
ND96-8929	1.2	1.0	1.0	1.7	1.0	1.0
OAC 98-02	1.6	1.0	1.3	1.3	1.0	2.3
OAC 99-17	1.4	1.0		2.0	1.0	1.7
OAC 99-36	1.4	1.0	1.0	2.0	1.0	1.7
ORC 9901	1.1	1.0	1.0	1.3	1.0	1.7
ORC 9902	1.0	1.0	1.0	1.3	1.0	1.0
SD96-702	1.1	1.0	1.0	1.3	1.0	1.3
SD97-749	1.4	1.0	1.3	1.3	1.0	2.0
SD97-2154	1.5	1.0	1.0	2.0	1.0	2.0
SD97-2585	1.2	1.0	1.0	2.0	1.0	1.7
SD97-2915	1.4	1.0	1.0	1.3	1.0	2.0

\* Data not included in mean. Note OAC 99-17 severely impacted by iron chlorosis at Morris, MN no usable data!

UNIFORM TEST 0, 2001

LODGING (score)

Strain	Ottawa Ont.	Woodstock Ont.	St. Bruno Montarville Que.	Watertown SD	Arlington WI
Lambert (0)	1.0	1.0	1.3	1.0	1.0
Parker (I)	3.7	1.0	3.0	1.0	2.0
Surge (0)	1.0	1.0	1.0	2.0	1.0
Traill (E)	1.4	1.0	1.0	2.0	1.3
MN0902CN (SCN)	1.1	1.0	1.0	2.0	1.3
M92-185003	1.4	1.0	1.0	2.0	1.3
M92-285024	1.7	1.0	1.3	3.0	2.3
M94-161045	1.4	1.0	1.0	2.0	1.0
M94-175050	1.0	1.0	1.0	1.0	1.0
M94-176021	1.4	1.0	1.0	1.0	1.3
M94-176109	1.0	1.0	1.0	1.0	1.7
M94-190023	1.1	1.0	1.0	1.0	1.0
M94-275024	1.1	1.0	1.0	1.0	1.0
M95-123023	1.0	1.0	1.0	1.0	1.0
M95-123116	0.9	1.0	1.0	1.0	1.0
ND95-931 (Barnes)	1.0	1.0	1.0	1.0	1.0
ND95-1564	2.3	1.0	2.3	1.0	2.3
ND96-1593	0.9	1.0	1.3	2.0	1.3
ND96-8929	1.0	1.0	1.0	2.0	1.0
OAC 98-02	2.0	1.0	1.3	2.0	2.0
OAC 99-17	1.3	1.0	1.0	2.0	1.0
OAC 99-36	1.1	1.0	1.3	2.0	1.0
ORC 9901	0.9	1.0	1.0	1.0	1.0
ORC 9902	0.9	1.0	1.0	1.0	1.0
SD96-702	1.0	1.0	1.3	1.0	1.0
SD97-749	0.9	1.0	1.7	1.0	2.0
SD97-2154	0.9	1.0	1.3	2.0	1.5
SD97-2585	1.1	1.0	1.0	1.0	1.0
SD97-2915	1.0	1.0	1.0	2.0	1.7

UNIFORM TEST 0, 2001

PLANT HEIGHT (inches)

Strain	Mean 8 Tests	Fayetteville* AR	Morris MN	Rose- mount MN	Portage* ville MO	Cassel- ton ND
Lambert (0)	28	17	31	21	12	28
Parker (I)	33	23	35	29	17	35
Surge (0)	26	18	27	21	15	27
Traill (E)	25	16	27	20	11	29
MN0902CN (SCN)	28	17	31	24	11	34
M92-185003	26	17	32	24	13	27
M92-285024	33	21	37	30	19	32
M94-161045	25	15	25	18	11	30
M94-175050	27	16	28	21	10	31
M94-176021	28	15	31	22	11	33
M94-176109	26	15	30	22	10	30
M94-190023	27	16	30	22	15	25
M94-275024	27	17	28	24	12	33
M95-123023	28	19	22	25	14	27
M95-123116	27	18	24	22	12	29
ND95-931 (Barnes)	25	15	25	19	12	26
ND95-1564	31	20	26	26	16	34
ND96-1593	28	17	29	23	14	25
ND96-8929	25	15	27	21	12	23
OAC 98-02	28	19	25	22	15	32
OAC 99-17	30	22		27	16	26
OAC 99-36	27	20	26	22	15	26
ORC 9901	29	23	17	28	17	32
ORC 9902	28	22	26	24	19	28
SD96-702	29	16	31	25	13	28
SD97-749	29	18	29	25	18	30
SD97-2154	26	19	29	21	13	29
SD97-2585	26	17	31	20	15	28
SD97-2915	28	20	27	22	18	28

\* Data not included in mean. Note OAC 99-17 severely impacted by iron chlorosis at Morris. MN no usable data!

UNIFORM TEST 0, 2001

PLANT HEIGHT (inches)

Strain	Ottawa Ont.	Woodstock Ont.	St. Bruno Montarville Que.	Watertown SD	Arlington WI
Lambert (0)	30	17	32	35	27
Parker (I)	35	22	34	34	39
Surge (0)	27	16	28	31	32
Traill (E)	27	16	28	27	22
MN0902CN (SCN)	32	18	30	30	29
M92-185003	27	16	26	30	26
M92-285024	32	21	34	37	39
M94-161045	28	16	30	32	24
M94-175050	29	17	30	29	28
M94-176021	30	19	30	33	27
M94-176109	27	16	30	27	22
M94-190023	31	17	31	30	27
M94-275024	30	16	30	31	26
M95-123023	31	20	31	35	31
M95-123116	30	19	31	28	31
ND95-931 (Barnes)	31	16	30	30	26
ND95-1564	34	20	35	34	36
ND96-1593	31	18	32	37	32
ND96-8929	27	15	29	30	26
OAC 98-02	31	19	31	32	33
OAC 99-17	33	20	36	38	30
OAC 99-36	33	17	31	29	33
ORC 9901	35	23	33	34	33
ORC 9902	29	20	29	31	37
SD96-702	30	17	32	33	32
SD97-749	31	20	32	32	34
SD97-2154	28	14	29	31	27
SD97-2585	27	15	28	27	31
SD97-2915	30	17	33	30	34

UNIFORM TEST 0, 2001

SEED SIZE (g/100)

Strain	Mean 8 Tests	Fayetteville* AR	Morris MN	Rose- mount MN	Portage* ville MO	Cassel- ton ND
Lambert (0)	15.1	12.4	16.7	9.9	13.6	15.7
Parker (I)	17.6	12.9	18.6	12.8	17.6	17.0
Surge (0)	18.7	12.3	19.0	12.9	18.1	19.4
Traill (E)	14.4	12.6	14.0	11.4	13.3	14.8
MN0902CN (SCN)	13.0	10.6	13.3	8.8	12.1	13.0
M92-185003	15.3	12.1	16.4	9.6	13.4	17.7
M92-285024	16.1	12.4	16.8	10.7	17.3	18.1
M94-161045	13.0	11.0	14.7	9.4	12.3	13.4
M94-175050	15.1	12.7	15.7	9.8	13.5	16.9
M94-176021	15.1	10.4	15.7	10.1	12.5	14.9
M94-176109	13.5	11.1	15.0	8.9	13.5	14.4
M94-190023	13.6	11.8	13.9	10.2	11.9	14.3
M94-275024	16.0	13.3	16.5	12.3	14.5	16.8
M95-123023	15.9	11.4	16.9	10.6	14.0	17.4
M95-123116	15.3	10.4	15.4	11.1	12.9	15.4
ND95-931 (Barnes)	16.1	13.7	18.2	11.0	13.9	17.2
ND95-1564	15.6	10.5	16.7	11.4	15.9	15.8
ND96-1593	16.7	12.8	16.5	11.9	13.0	17.3
ND96-8929	15.5	12.2	15.4	10.6	14.9	15.4
OAC 98-02	17.8	11.6	17.4	13.0	16.8	17.6
OAC 99-17	17.3	13.0		14.1	18.5	18.1
OAC 99-36	15.9	12.1	15.6	11.5	16.8	17.0
ORC 9901	16.5	12.8	16.5	12.2	18.2	15.2
ORC 9902	16.7	11.7	15.2	13.0	16.7	16.5
SD96-702	16.1	10.7	16.1	11.3	14.2	16.9
SD97-749	15.1	9.7	16.0	11.2	15.2	14.9
SD97-2154	18.8	14.4	19.1	14.0	17.2	19.4
SD97-2585	18.4	12.6	18.0	12.7	17.7	19.1
SD97-2915	17.4	11.8	16.8	10.2	18.4	18.4

\* Data not included in mean. Note OAC 99-17 severely impacted by iron chlorosis at Morris, MN no usable data!



UNIFORM TEST 0, 2001

SEED SIZE (g/100)

Strain	Ottawa Ont.	Woodstock Ont.	St. Bruno Montarville Que.	Watertown SD	Arlington WI
Lambert (0)	16.3	16.8	19.8	12.0	13.4
Parker (I)	20.5	21.3	20.5	13.6	16.3
Surge (0)	21.5	21.5	24.3	16.0	15.4
Traill (E)	15.7	15.4	17.5	12.3	14.2
MN0902CN (SCN)	15.9	14.8	16.1	11.5	10.6
M92-185003	15.3	17.3	18.6	13.0	14.3
M92-285024	17.6	19.8	17.9	12.7	14.9
M94-161045	13.4	14.5	15.1	10.6	12.6
M94-175050	15.3	17.1	19.7	12.5	13.5
M94-176021	16.4	17.9	20.1	12.8	13.2
M94-176109	14.3	14.5	17.9	11.1	11.6
M94-190023	14.4	15.2	15.9	11.8	12.7
M94-275024	17.3	17.4	19.7	13.4	14.8
M95-123023	16.6	18.1	19.4	13.3	14.7
M95-123116	17.0	18.0	18.2	13.3	13.8
ND95-931 (Barnes)	16.1	17.8	20.2	12.7	15.4
ND95-1564	16.8	18.1	19.1	12.8	13.8
ND96-1593	17.6	19.9	22.0	13.7	15.1
ND96-8929	16.6	15.9	21.6	13.7	14.4
OAC 98-02	19.1	20.9	22.5	15.0	16.6
OAC 99-17	17.7	19.8	22.1	14.5	14.6
OAC 99-36	16.1	19.4	19.5	13.3	14.8
ORC 9901	19.0	20.0	20.7	14.7	13.7
ORC 9902	20.1	20.0	19.1	14.2	15.1
SD96-702	17.6	18.9	21.9	12.5	13.5
SD97-749	16.4	16.9	19.1	12.4	13.9
SD97-2154	19.9	22.0	23.0	15.9	17.3
SD97-2585	20.3	21.5	23.4	15.1	17.0
SD97-2915	20.0	21.7	22.0	14.5	15.7

UNIFORM TEST 0, 2001

SEED QUALITY (score)

Strain	Mean 6 Tests	Fayetteville* AR	Morris MN	Rose- mount MN	Portage* ville MO	Cassel- ton ND
Lambert (0)	2.0		1.3	1.7	3.0	
Parker (I)	1.7		1.3	1.7	3.0	
Surge (0)	2.2		1.3	1.7	3.0	
Trall (E)	2.0		1.0	2.3	2.0	
MN0902CN (SCN)	1.7		1.0	2.0	3.0	
M92-185003	2.0		1.0	2.0	3.0	
M92-285024	1.5		1.3	1.3	3.0	
M94-161045	2.2		1.3	2.0	3.0	
M94-175050	1.7		1.3	1.3	3.0	
M94-176021	2.3		1.3	2.3	3.0	
M94-176109	1.9		1.3	1.3	3.0	
M94-190023	1.6		1.3	1.3	3.0	
M94-275024	2.2		1.5	2.0	3.0	
M95-123023	2.0		2.0	1.7	4.0	
M95-123116	1.8		2.5	2.0	3.0	
ND95-931 (Barnes)	2.1		2.3	1.7	3.0	
ND95-1564	2.0		1.7	1.7	3.0	
ND96-1593	1.8		1.7	2.0	3.0	
ND96-8929	2.0		1.3	1.7	4.0	
OAC 98-02	2.1		2.7	2.0	3.0	
OAC 99-17	2.0			1.7	3.0	
OAC 99-36	1.8		2.3	1.3	3.0	
ORC 9901	1.5		1.0	1.3	4.0	
ORC 9902	1.6		1.7	1.3	3.0	
SD96-702	2.1		1.3	1.7	3.0	
SD97-749	2.0		1.7	1.7	3.0	
SD97-2154	2.1		2.0	1.7	3.0	
SD97-2585	1.7		1.3	1.3	3.0	
SD97-2915	2.3		1.3	1.3	3.0	

\* Data not included in mean. Note OAC 99-17 severely impacted by iron chlorosis at Morris, MN no usable data!

UNIFORM TEST 0, 2001

SEED QUALITY (score)

Strain	Ottawa Ont.	Woodstock Ont.	St. Bruno Montarville Que.	Watertown SD	Arlington WI
Lambert (0)		1.5	2.3	3.0	2.0
Parker (I)		1.5	2.0	2.0	1.7
Surge (0)		3.0	3.0	2.0	2.0
Traill (E)		2.5	2.0	2.0	2.0
MN0902CN (SCN)		2.0	2.0	2.0	1.3
M92-185003		2.0	3.0	2.0	2.0
M92-285024		1.5	1.7	2.0	1.3
M94-161045		1.5	2.3	3.0	3.3
M94-175050		1.5	2.3	2.0	2.0
M94-176021		2.0	2.7	3.0	2.3
M94-176109		1.5	2.7	2.0	2.3
M94-190023		1.5	1.3	2.0	2.0
M94-275024		2.0	2.0	3.0	2.5
M95-123023		2.0	2.0	2.0	2.3
M95-123116		1.5	1.7	2.0	1.0
ND95-931 (Barnes)		2.0	3.0	2.0	1.7
ND95-1564		1.5	3.0	3.0	1.3
ND96-1593		2.0	1.3	2.0	2.0
ND96-8929		1.5	2.0	3.0	2.7
OAC 98-02		1.5	2.0	3.0	1.3
OAC 99-17		1.5	2.7	2.0	2.0
OAC 99-36		1.5	2.0	2.0	1.7
ORC 9901		1.5	1.7	2.0	1.7
ORC 9902		1.5	2.3	2.0	1.0
SD96-702		2.0	3.0	3.0	1.7
SD97-749		2.5	2.0	2.0	2.0
SD97-2154		1.5	2.3	3.0	2.0
SD97-2585		1.5	2.3	2.0	1.7
SD97-2915		2.0	3.3	3.0	2.7

## UNIFORM TEST 0, 2001

## PROTEIN (%)

Strain	Mean 5 Tests	Morris MN	Rosemount MN	Casselton ND	Woodstock Ont.	Saint Bruno de Montarville Que.
Lambert (0)	40.2	40.0	39.6	38.7	42.4	40.4
Parker (I)	40.0	39.1	40.2	38.5	42.1	40.1
Surge (0)	41.8	41.1	39.7	40.5	44.1	43.8
Traill (E)	40.9	40.8	40.2	39.9	43.0	40.4
MN0902CN (SCN)	41.8	41.5	40.7	39.5	44.3	43.2
M92-185003	39.8	40.0	40.2	40.0	40.8	38.0
M92-285024	39.6	39.0	37.9	40.1	42.0	39.1
M94-161045	39.6	40.4	40.0	38.1	40.6	38.9
M94-175050	40.6	41.1	38.9	40.3	41.6	41.2
M94-176021	40.1	39.8	39.5	38.8	42.0	40.4
M94-176109	40.8	40.1	40.0	38.2	43.3	42.2
M94-190023	40.8	40.7	40.8	39.8	42.7	40.1
M94-275024	41.9	42.5	40.7	38.7	44.6	43.2
M95-123023	39.4	39.9	39.3	40.1	40.0	37.7
M95-123116	39.7	39.5	38.1	39.1	42.2	39.6
ND95-931 (Barnes)	39.7	40.2	38.6	39.0	41.8	38.9
ND95-1564	38.7	39.2	37.6	38.3	40.5	37.7
ND96-1593	39.9	39.1	40.9	38.9	41.1	39.3
ND96-8929	39.4	39.2	39.6	37.8	41.5	39.0
OAC 98-02	40.9	41.5	41.3	37.4	43.3	41.1
OAC 99-17	39.2	40.2	37.4	37.9	41.0	39.3
OAC 99-36	39.2	39.5	38.7	38.5	41.5	38.0
ORC 9901	39.7	39.6	38.1	38.5	41.7	40.5
ORC 9902	41.6	40.2	40.4	40.9	44.4	42.1
SD96-702	39.1	39.0	38.3	38.5	40.7	38.9
SD97-749	39.0	39.8	37.1	38.7	40.9	38.6
SD97-2154	40.2	40.3	38.3	39.3	42.1	40.9
SD97-2585	41.9	40.0	40.7	41.4	44.4	42.8
SD97-2915	41.3	39.7	39.9	40.4	43.7	42.9

UNIFORM TEST 0, 2001

OIL (%)

Strain	Mean 5 Tests	Morris MN	Rosemount MN	Casselton ND	Woodstock Ont.	Saint Bruno de Montarville Que.
Lambert (0)	21.6	21.3	20.8	21.6	21.2	23.0
Parker (I)	20.7	20.3	20.2	20.7	20.6	21.9
Surge (0)	20.6	20.3	21.0	20.1	20.5	21.0
Traill (E)	21.1	20.7	21.1	21.0	20.4	22.5
MN0902CN (SCN)	19.7	19.3	19.3	19.8	19.6	20.7
M92-185003	21.3	20.9	19.3	21.3	21.5	23.7
M92-285024	20.8	20.4	20.5	20.3	20.3	22.4
M94-161045	21.3	20.3	19.9	21.7	21.6	23.2
M94-175050	20.8	20.1	21.1	20.4	20.8	21.6
M94-176021	21.3	20.9	20.8	21.3	21.0	22.6
M94-176109	21.1	21.4	19.4	21.7	20.9	22.2
M94-190023	21.2	21.0	20.5	21.3	20.7	22.6
M94-275024	20.1	19.5	20.1	20.4	19.7	20.7
M95-123023	21.5	20.2	21.2	20.3	22.0	23.6
M95-123116	21.3	20.6	21.5	20.9	20.7	22.6
ND95-931 (Barnes)	21.9	21.0	22.0	21.7	21.2	23.6
ND95-1564	21.0	19.6	21.2	20.7	20.6	22.7
ND96-1593	21.2	21.4	20.7	20.4	20.9	22.4
ND96-8929	22.0	21.8	21.5	22.4	21.4	23.0
OAC 98-02	19.9	18.5	19.3	20.7	20.2	21.0
OAC 99-17	21.1	19.4	21.5	20.7	21.2	22.8
OAC 99-36	21.1	20.5	20.9	20.3	21.4	22.3
ORC 9901	21.3	20.3	21.7	21.2	20.9	22.4
ORC 9902	20.0	19.8	19.6	19.8	20.2	20.8
SD96-702	21.7	21.6	21.2	21.7	21.3	22.8
SD97-749	21.0	19.6	21.8	20.4	21.2	22.0
SD97-2154	20.5	19.8	20.8	20.1	20.7	21.2
SD97-2585	20.3	20.5	20.0	20.1	20.1	20.6
SD97-2915	20.6	20.4	21.2	20.3	20.6	20.6

Preliminary Test 0, 2001

	Strain	Parentage	Generation Composited	Unique Traits
1.	Lambert (0)	M75-274 x M76-151	F5	Rps1
2.	Parker (I)	A79-136012 x Dawson	F5	Rps1
3.	Surge	A86-204022 x Kato	F5	
4.	Traill (E)	M82-996 x Sigco KG20	F5	
5.	M95-205041	ND90-794 x M91-278	F5	Rps1a
6.	M95-209020	M91-301 x ND90-599	F5	Rps1a
7.	M95-210021	Harmony x Surge	F5	Rps1a
8.	M95-210133	Harmony x Surge	F5	Rps1a
9.	M95-218042	ND(M)89-556 x Ozzie	F5	Rps1a
10.	M95-222055	Lambert x M90-1573	F5	Rps1a
11.	M95-223055	M91-228 x Surge	F5	Rps1a
12.	M95-223099	M91-228 x Surge	F5	Rps1a
13.	M95-224033	M90-1712 x Hendricks	F5	Rps1a
14.	M95-227016	IA2008R x M91-201	F5	Rps1k, BSR
15.	M95-228092	M91-557 x Archer	F5	Rps1k, BSR
16.	M95-241085	IA2021 x M91-201	F5	Rps1k
17.	M95-265009	IA2008R x Lambert	F5	Rps1k, BSR
18.	M95-269063	ND(M)89-556 x A93-555023	F5	Rps1a
19.	M95-288008	PI 561.367 x Glacier	F5	Rps6
20.	M95-327061	Parker (3) x Marcus 95	F5	Rps1k
21.	M96-140012	Lambert (3) x Marcus 95	F4	Rps6
22.	ND98-634	M90-370 x SD92-1323	F5	Rps1c
23.	ND98-658	M90-370 x SD92-1323	F5	Rps1c
24.	ND98-2043	SD92-1323 x M90-370	F5	Rps1c
25.	ND98-2235	SD92-1323 x M90-370	F5	Rps1c
26.	ND98-2252	SD92-1323 x M90-370	F5	Rps1c
27.	OAC 00-01	OAC Bayfield x (OT89-16 x OAC Shire)	F5	
28.	OAC 00-02	OAC Bayfield x SL92-1357M	F5	
29.	OAC 00-18	OAC Erin x OAC Wingham	F5	
30.	OAC 00-22	A92-525014 x (OT89-16 x OAC Shire)	F5	
31.	OAC 00-24	(Northrup King S26-06 x OT88-1) x OAC Bright	F5	
32.	OAC 00-26	A92-525014 x (OT89-16 x OAC Shire)	F5	
33.	OAC 00-33	OAC Bayfield x (OT89-16 x OAC Shire)	F5	
34.	ORC 2001	Unknown	F5	
35.	ORC 2002	J-251 x Westag 97	F5	
36.	SD96-135-3	Surge x Hendricks	F4	
37.	SD97-92-2	M92-597 x C1944	F4	
38.	SD97-92-3	M92-597 x C1944	F4	
39.	SD98-577	Kato x Asgrow A1929	F5	Rps1k
40.	SD98-586	Kato x Asgrow A1929	F5	Rps1k
41.	SD98-2707	Vinton x Kato	F5	Rps1a
42.	SD98-3289	Surge x ORC 9201	F5	Rps1a
43.	SD98-3742	M91-1815 x SD92-914	F5	Rps1a

**PRELIMINARY TEST 0, 2001**  
**DESCRIPTIVE AND DISEASE DATA**

Strain	Descriptive Code	Chlorosis	Shattering	PR Lafayette	
		Score Yellow Medicine Co.	Score Manhattan	Race 4	Race 7
Lambert (0)	PGBIYBII	4.3	1.0	H	S
Parker (I)	WGBSYBfI	4.5	1.0	S	S
Surge	PGBDYIbI	4.2	1.0	S	R
Traill (E)	PTBDYYI	3.9	1.0	H	R
M95-205041	WGBDYYI	3.9	2.0	S	S
M95-209020	PGBDYYI	3.5	2.0	S	S
M95-210021	WTBIYBII	4.2	1.0	S	S
M95-210133	WTBSYBfI	4.7	1.0	H	S
M95-218042	PTTDYYI	3.4	1.0	S	S
M95-222055	P+WTBIYBrI	4.3	2.0	H	H
M95-223055	P+WGBDYIbI	3.9	1.0	S	S
M95-223099	PGBDYGfI	4.2	1.0	S	S
M95-224033	WGBDYYI	4.0	2.0	S	R
M95-227016	WGTIYBfI	4.7	1.0	R	S
M95-228092	PGBDYYI	4.2	1.0	R	R
M95-241085	P+WGTDYBf+BII	5.0	2.0	R	R
M95-265009	PGTSYBfI	3.5	1.0	R	R
M95-269063	PGTDYYI	4.9	1.0	H	S
M95-288008	PGBDYYI	4.2	2.0	S	S
M95-327061	P+WGB+TDYBfI	4.9	2.0	H	R
M96-140012	PGBSYBfI	4.9	1.0	S	S
ND98-634	PTBSYGrI	4.9	2.0	S	R
ND98-658	PTBIYBrI	4.7	1.0	S	S
ND98-2043	PGBSYBfI	4.0	2.0	S	R
ND98-2235	WGBSYYI	4.7	1.0	S	R
ND98-2252	WT+GBSYBfI	4.7	2.0	S	R
OAC 00-01	WTBSYBrI	4.5	3.0	S	S
OAC 00-02	PTBSYBII	3.7	2.0	R	S
OAC 00-18	WTBDYBfI	3.7	2.0	S	S
OAC 00-22	WTBSYBrI	4.0	1.0	H	S
OAC 00-24	PTBDYBrI	5.0	4.0	S	S
OAC 00-26	WTBSYBrI	4.0	3.0	S	S
OAC 00-33	PTBSYBrI	4.2	1.0	S	S
ORC 2001	WTBIYBII	5.0	1.0	R	R
ORC 2002	PTTDYBrI	5.0	2.0	R	S
SD96-135-3	PGBDYBfI	4.4	1.0	S	S
SD97-92-2	PGBIYBfI	4.3	2.0	S	S
SD97-92-3	PGTDYHI	4.7	1.0	R	R
SD98-577	PTBDYBII	5.0	1.0	R	R
SD98-586	PGBDYBII	4.5	1.0	R	R
SD98-2707	PTTDDYYI	4.9	2.0	H	S
SD98-3289	PTBDYBrI	4.9	1.0	S	S
SD98-3742	PGBDYYI	4.5	1.0	S	H

## PRELIMINARY TEST 0, 2001

## REGIONAL SUMMARY

No. of Tests Strain	Yield 7 bu/a	Rank 7 No.	Maturity 7 Date	Lodging 7 Score	Plant Height 7 In.	Seed Size 7 g/100	Seed Quality 5 Score	Composition	
								Protein 5 %	Oil 5 %
Lambert (0)	34.6	18	9/18	1.1	29	15.6	2.2	40.5	21.9
Parker (I)	34.6	18	10.7	1.9	33	18.7	2.4	40.5	20.7
Surge	35.6	10	5.3	1.0	27	19.6	2.4	42.3	20.6
Traill (E)	27.8	43	-5.4	1.1	25	15.0	2.4	41.6	21.0
M95-205041	31.4	35	-3.1	1.0	26	15.4	3.0	41.0	21.2
M95-209020	29.5	40	-3.0	1.0	27	14.4	2.0	40.6	20.9
M95-210021	32.1	30	-1.1	1.1	28	14.7	2.5	39.6	22.0
M95-210133	35.0	14	-2.0	1.0	27	14.4	2.4	39.9	21.9
M95-218042	34.2	22	-0.7	1.0	28	14.6	2.0	40.5	21.2
M95-222055	34.6	18	2.7	1.1	28	16.2	2.5	41.0	21.2
M95-223055	31.6	32	3.6	1.1	27	16.5	2.4	41.9	20.9
M95-223099	34.8	16	4.0	1.4	32	18.8	2.2	40.4	21.6
M95-224033	32.3	29	1.1	1.4	30	16.7	2.2	40.6	21.3
M95-227016	37.3	2	10.0	1.3	31	16.3	2.2	40.0	21.2
M95-228092	36.6	6	8.7	1.3	26	17.8	1.8	39.1	21.8
M95-241085	34.1	24	-0.4	1.2	26	15.6	2.6	39.6	22.3
M95-265009	37.0	5	4.0	1.6	32	14.5	1.9	38.9	21.6
M95-269063	31.3	36	-0.9	1.3	28	16.1	2.0	39.5	20.6
M95-288008	32.9	27	-0.7	1.1	25	15.5	2.0	41.4	20.5
M95-327061	34.5	21	8.7	1.4	31	17.2	2.4	39.2	21.2
M96-140012	37.3	2	2.6	1.4	30	15.9	2.1	40.0	21.7
ND98-634	31.8	31	-2.6	1.0	26	17.2	2.6	40.1	21.4
ND98-658	30.2	37	-2.6	1.0	23	15.7	2.7	41.0	21.3
ND98-2043	32.6	28	-1.7	1.2	27	16.7	2.5	40.1	21.2
ND98-2235	34.8	16	8.1	1.2	30	19.0	1.8	41.9	20.0
ND98-2252	35.9	8	3.9	1.2	29	16.1	2.5	40.3	20.4
OAC 00-01	34.9	15	-2.7	1.4	27	14.9	1.9	39.2	22.1
OAC 00-02	29.4	41	-3.3	1.1	26	14.3	2.0	38.9	22.4
OAC 00-18	31.5	34	1.7	1.4	29	12.9	2.3	40.8	20.6
OAC 00-22	35.7	9	8.0	1.2	31	15.9	2.1	39.0	20.9
OAC 00-24	28.6	42	-3.9	1.2	27	16.6	2.5	39.8	22.0
OAC 00-26	35.1	13	7.4	1.4	32	16.2	2.1	39.3	20.9
OAC 00-33	35.4	11	3.1	1.0	29	16.9	2.2	37.8	22.2
ORC 2001	37.5	1	8.9	1.1	28	15.8	1.5	39.5	21.7
ORC 2002	33.0	26	6.3	1.1	28	17.8	2.3	41.3	20.5
SD96-135-3	37.1	4	8.6	1.2	27	20.6	2.5	40.6	21.4
SD97-92-2	31.6	32	3.0	1.1	28	16.8	2.1	43.5	19.7
SD97-92-3	30.1	38	-2.1	1.0	27	15.2	2.6	46.6	18.2
SD98-577	35.3	12	8.4	1.4	30	18.2	2.0	43.2	19.8
SD98-586	36.3	7	5.4	1.0	25	18.9	2.0	40.9	20.8
SD98-2707	30.1	38	5.1	1.1	27	23.5	2.5	42.6	19.9
SD98-3289	34.2	22	3.0	1.2	30	17.7	2.1	40.9	20.9
SD98-3742	34.1	24	5.0	1.0	30	16.3	1.7	38.7	21.9

117.9 Days After Planting



## PRELIMINARY TEST 0, 2001

## YIELD (bu/a)

Strain	Mean 7 Tests	Morris MN	Rose- mount MN	Cassel- ton ND	Ottawa Ont.	Wood- stock Ont.	St Bruno Montarville Que.	Water- town SD
Lambert (0)	34.6	42.6	26.4	39.8	35.3	27.1	33.8	37.0
Parker (I)	34.6	45.9	17.3	44.3	37.6	32.6	36.5	27.7
Surge	35.6	40.4	38.2	42.4	33.6	26.5	34.7	33.6
Traill (E)	27.8	35.0	23.3	30.1	32.3	18.5	26.6	29.0
M95-205041	31.4	35.8	35.0	36.5	26.0	18.5	27.3	40.4
M95-209020	29.5	32.1	30.7	34.3	28.7	20.5	26.8	33.6
M95-210021	32.1	40.6	30.3	35.5	35.1	23.5	33.0	26.5
M95-210133	35.0	45.6	34.1	41.1	32.7	23.2	31.5	37.0
M95-218042	34.2	38.8	41.3	41.5	32.7	24.6	29.2	31.3
M95-222055	34.6	41.6	28.9	44.1	33.8	29.0	32.6	32.3
M95-223055	31.6	42.8	19.6	40.5	31.9	21.2	33.2	32.3
M95-223099	34.8	46.4	21.6	41.6	34.2	26.4	33.6	39.6
M95-224033	32.3	43.9	17.3	35.5	35.4	26.4	31.7	36.0
M95-227016	37.3	48.6	21.1	50.7	37.6	33.6	37.5	32.4
M95-228092	36.6	48.9	36.1	45.2	30.4	29.5	38.2	27.8
M95-241085	34.1	47.9	27.6	42.3	28.4	22.1	29.9	40.8
M95-265009	37.0	46.8	26.4	49.6	33.2	29.2	35.8	38.0
M95-269063	31.3	41.4	21.4	41.4	29.5	21.4	30.5	33.6
M95-288008	32.9	37.5	40.8	37.9	31.3	21.2	27.0	34.8
M95-327061	34.5	47.9	18.4	46.7	35.3	27.3	36.8	28.8
M96-140012	37.3	49.6	20.9	44.6	34.8	28.2	35.7	47.4
ND98-634	31.8	39.2	21.6	37.1	31.0	22.6	29.8	41.0
ND98-658	30.2	40.8	29.0	30.2	30.7	20.1	28.4	32.4
ND98-2043	32.6	43.0	26.4	37.1	30.0	20.5	29.0	41.9
ND98-2235	34.8	49.2	15.9	47.3	32.3	28.3	31.2	39.5
ND98-2252	35.9	48.2	26.4	43.7	30.2	27.0	30.2	45.7
OAC 00-01	34.9	39.5	36.7	36.2	37.2	28.9	33.8	32.3
OAC 00-02	29.4	27.7	28.6	30.5	34.0	22.6	36.4	25.7
OAC 00-18	31.5	31.1	34.9	40.9	33.1	23.9	31.9	24.7
OAC 00-22	35.7	47.1	19.2	38.0	37.3	33.3	39.0	35.8
OAC 00-24	28.6	39.9	22.0	25.4	33.0	21.2	30.8	27.7
OAC 00-26	35.1	48.2	20.9	38.9	36.1	31.8	36.5	33.2
OAC 00-33	35.4	47.9	22.3	38.3	41.3	30.3	33.8	33.7
ORC 2001	37.5	42.3	23.8	44.7	37.6	35.3	37.8	40.9
ORC 2002	33.0	30.1	23.6	39.6	35.0	34.4	39.3	28.8
SD96-135-3	37.1	43.4	29.3	42.8	34.3	29.8	34.1	45.7
SD97-92-2	31.6	38.8	23.0	37.5	31.8	25.5	33.7	31.1
SD97-92-3	30.1	34.9	24.4	33.3	27.3	22.2	28.7	40.2
SD98-577	35.3	45.1	32.1	48.0	33.0	28.5	32.5	27.6
SD98-586	36.3	44.9	29.6	42.5	32.1	28.2	33.7	42.9
SD98-2707	30.1	39.2	16.2	41.0	28.5	24.9	28.5	32.3
SD98-3289	34.2	48.3	16.1	32.6	35.3	28.5	37.9	41.0
SD98-3742	34.1	46.0	20.0	37.7	36.9	29.6	33.9	34.8
C.V. (%)		8.2	11.2	16.4	6.7	8.6	6.3	12.1
L.S.D. (5%)		6.9	5.9	10.4	3.0	3.1	3.2	8.5
Row Sp. (In.)		10	10	30	16	14	7	30
Rows/Plot		4	4	4	4	4	5	4
Reps		2	2	3	3	3	3	2

PRELIMINARY TEST 0, 2001

YIELD RANK

Strain	Yield Rank	Morris MN	Rose-mount MN	Cassel-ton ND	Ottawa Ont.	Wood-stock Ont.	St Bruno Montarville Que.	Water-town SD
Lambert (0)	18	23	18	23	11	20	16	15
Parker (I)	18	15	39	9	2	5	8	38
Surge	10	29	3	14	20	22	13	22
Trail (E)	43	38	25	42	27	42	43	34
M95-205041	35	37	6	33	43	42	40	10
M95-209020	40	40	10	37	39	39	42	22
M95-210021	30	28	11	35	13	29	23	41
M95-210133	14	16	8	19	25	30	28	15
M95-218042	22	34	1	17	26	27	35	32
M95-222055	18	25	15	10	19	12	24	28
M95-223055	32	22	36	22	30	36	22	28
M95-223099	16	13	29	16	17	23	21	12
M95-224033	29	19	39	35	9	23	27	17
M95-227016	2	4	32	1	4	3	6	26
M95-228092	6	3	5	6	35	10	3	37
M95-241085	24	8	17	15	41	34	33	9
M95-265009	5	12	18	2	21	11	11	14
M95-269063	36	26	31	18	38	35	31	24
M95-288008	27	36	2	28	32	36	41	19
M95-327061	21	8	38	5	10	19	7	35
M96-140012	2	1	33	8	15	17	12	1
ND98-634	31	32	29	31	33	31	34	6
ND98-658	37	27	14	41	34	41	39	26
ND98-2043	28	21	18	31	37	39	36	5
ND98-2235	16	2	43	4	28	16	29	13
ND98-2252	8	6	18	11	36	21	32	2
OAC 00-01	15	31	4	34	6	13	17	28
OAC 00-02	41	43	16	40	18	31	10	42
OAC 00-18	34	41	7	21	22	28	26	43
OAC 00-22	9	11	37	27	5	4	2	18
OAC 00-24	42	30	28	43	24	36	30	38
OAC 00-26	13	6	33	25	8	6	9	25
OAC 00-33	11	8	27	26	1	7	18	21
ORC 2001	1	24	23	7	3	1	5	8
ORC 2002	26	42	24	24	14	2	1	35
SD96-135-3	4	20	13	12	16	8	14	2
SD97-92-2	32	34	26	30	31	25	19	33
SD97-92-3	38	39	22	38	42	33	37	11
SD98-577	12	17	9	3	23	14	25	40
SD98-586	7	18	12	13	29	17	20	4
SD98-2707	38	32	41	20	40	26	38	28
SD98-3289	22	5	42	39	12	14	4	6
SD98-3742	24	14	35	29	7	9	15	19

PRELIMINARY TEST 0, 2001

MATURITY (date)

Strain	Mean 7 Tests	Morris MN	Rose- mount MN	Cassel- ton ND	Ottawa Ont.	Wood- stock Ont.	St Bruno Montarville Que.	Water- town SD
Lambert (0)	9/18	9/21	9/17	10/1	9/12	9/12	9/28	9/6
Parker (I)	10.7	15	12	5	21	13	+9	9
Surge	5.3	2	6	1	12	11	+9	5
Trail (E)	-5.4	-4	-4	-8	-11	-6	-13	-5
M95-205041	-3.1	-4	-4	-6	-2	-2	-3	-4
M95-209020	-3.0	-4	-3	-7	-2	-2	-7	-3
M95-210021	-1.1	-2	5	-4	-1	-3	0	-3
M95-210133	-2.0	-2	-1	-2	-5	-4	-4	0
M95-218042	-0.7	-2	2	-7	0	1	0	1
M95-222055	2.7	0	3	-1	4	5	+3	8
M95-223055	3.6	5	6	1	4	7	+5	2
M95-223099	4.0	0	6	-4	12	11	+3	3
M95-224033	1.1	-2	2	0	4	1	+2	3
M95-227016	10.0	13	9	5	21	14	+9	8
M95-228092	8.7	7	10	4	15	15	+11	10
M95-241085	-0.4	0	3	-3	0	0	+1	-3
M95-265009	4.0	0	5	3	13	3	+4	4
M95-269063	-0.9	-4	2	-3	0	-2	0	1
M95-288008	-0.7	-4	2	-2	0	-3	-1	2
M95-327061	8.7	12	10	5	14	11	+8	9
M96-140012	2.6	4	3	2	4	3	+6	2
ND98-634	-2.6	-4	-4	-4	-1	-4	-3	-1
ND98-658	-2.6	-4	-4	-8	1	-3	-4	0
ND98-2043	-1.7	-2	-2	-13	1	1	-1	3
ND98-2235	8.1	9	7	4	18	13	+11	6
ND98-2252	3.9	3	1	1	8	10	+11	4
OAC 00-01	-2.7	-2	-2	-6	-5	-3	-7	-1
OAC 00-02	-3.3	-4	3	-7	-7	-6	-4	-2
OAC 00-18	1.7	-2	3	4	2	-2	-3	7
OAC 00-22	8.0	12	5	4	17	9	+7	9
OAC 00-24	-3.9	-4	-4	-9	-5	-6	-6	1
OAC 00-26	7.4	6	5	4	14	9	+4	14
OAC 00-33	3.1	2	5	3	-1	0	-3	13
ORC 2001	8.9	14	6	6	10	8	+8	18
ORC 2002	6.3	9	7	4	11	6	+6	7
SD96-135-3	8.6	3	9	4	18	14	+11	12
SD97-92-2	3.0	10	0	1	4	5	+5	1
SD97-92-3	-2.1	-4	-2	-9	0	1	-8	-1
SD98-577	8.4	10	7	5	20	9	+8	8
SD98-586	5.4	4	3	5	10	11	+9	5
SD98-2707	5.1	0	6	3	16	4	+4	7
SD98-3289	3.0	0	4	4	5	0	-1	8
SD98-3742	5.0	4	5	4	8	9	+6	5
Date Planted	5/23	5/17	6/7	5/27	5/15	5/31	5/20	5/15
Days to Mature	118	127	102	127	120	104	131	114

PRELIMINARY TEST 0, 2001

LODGING (score)

Strain	Mean 7 Tests	Morris MN	Rose- mount MN	Cassel- ton ND	Ottawa Ont.	Wood- stock Ont.	St Bruno Montarville Que.	Water- town SD
Lambert (0)	1.1	1.0	1.0	1.0	1.0	1.0	1.0	2.0
Parker (I)	1.9	2.5	2.0	1.3	2.2	1.2	3.3	1.0
Surge	1.0	1.0	1.0	1.3	1.0	1.0	1.0	1.0
Traill (E)	1.1	1.0	1.0	1.0	1.0	1.0	1.0	2.0
M95-205041	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
M95-209020	1.0	1.0	1.0	1.0	1.0	1.2	1.0	1.0
M95-210021	1.1	1.0	1.0	1.0	1.0	1.0	1.0	2.0
M95-210133	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
M95-218042	1.0	1.0	1.0	1.3	1.0	1.0	1.0	1.0
M95-222055	1.1	1.0	1.0	1.7	1.0	1.0	1.0	1.0
M95-223055	1.1	1.0	1.0	1.7	1.0	1.0	1.0	1.0
M95-223099	1.4	1.0	1.5	1.7	1.3	1.0	1.3	2.0
M95-224033	1.4	1.0	1.0	2.0	1.0	1.0	1.0	3.0
M95-227016	1.3	1.5	1.5	2.0	1.0	1.0	1.0	1.0
M95-228092	1.3	1.5	2.0	1.0	1.0	1.0	1.3	1.0
M95-241085	1.2	1.5	1.0	2.0	1.0	1.0	1.0	1.0
M95-265009	1.6	2.0	1.0	2.0	2.0	1.0	1.0	2.0
M95-269063	1.3	1.0	1.0	2.0	1.0	1.0	1.0	2.0
M95-288008	1.1	1.0	1.0	1.0	1.0	1.0	1.0	2.0
M95-327061	1.4	2.0	1.5	1.7	1.2	1.0	1.3	1.0
M96-140012	1.4	1.5	1.0	2.0	1.2	1.2	1.0	2.0
ND98-634	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
ND98-658	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
ND98-2043	1.2	1.0	1.0	1.0	1.0	1.1	1.0	2.0
ND98-2235	1.2	1.0	1.5	1.0	1.0	1.0	1.0	2.0
ND98-2252	1.2	1.0	1.0	1.3	1.0	1.0	1.0	2.0
OAC 00-01	1.4	1.0	1.0	1.3	1.7	1.1	1.0	3.0
OAC 00-02	1.1	1.5	1.0	1.0	1.0	1.0	1.0	1.0
OAC 00-18	1.4	1.5	1.0	2.3	1.0	1.0	1.0	2.0
OAC 00-22	1.2	1.0	1.0	1.3	1.0	1.0	1.0	2.0
OAC 00-24	1.2	1.0	1.0	1.0	1.2	1.0	1.0	2.0
OAC 00-26	1.4	1.0	1.0	1.7	1.3	1.0	1.0	3.0
OAC 00-33	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
ORC 2001	1.1	1.0	1.5	1.0	1.0	1.0	1.5	1.0
ORC 2002	1.1	1.5	1.5	1.0	1.0	1.0	1.0	1.0
SD96-135-3	1.2	1.0	1.5	1.0	1.0	1.0	1.0	2.0
SD97-92-2	1.1	1.0	1.0	1.0	1.0	1.0	1.0	2.0
SD97-92-3	1.0	1.0	1.0	1.0	1.0	1.2	1.0	1.0
SD98-577	1.4	2.0	1.5	2.0	1.0	1.0	1.0	1.0
SD98-586	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
SD98-2707	1.1	1.0	2.0	1.0	1.0	1.0	1.0	1.0
SD98-3289	1.2	1.0	1.0	1.3	1.3	1.0	1.0	2.0
SD98-3742	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

## PRELIMINARY TEST 0, 2031

## PLANT HEIGHT (inches)

Strain	Mean 7 Tests	Morris MN	Rose- mount MN	Cassel- ton ND	Ottawa Ont.	Wood- stock Ont.	St Bruno Montarville Que.	Water- town SD
Lambert (0)	29	33	27	28	30	21	30	32
Parker (I)	33	41	32	33	32	25	32	35
Surge	27	32	27	28	27	18	28	29
Traill (E)	25	27	22	23	26	20	28	28
M95-205041	26	29	23	29	28	17	26	28
M95-209020	27	30	22	28	29	19	28	32
M95-210021	28	31	29	27	27	19	30	32
M95-210133	27	32	27	26	25	17	27	33
M95-218042	28	31	26	33	28	19	30	27
M95-222055	28	32	25	33	26	20	30	31
M95-223055	27	31	26	26	28	20	30	30
M95-223099	32	37	29	31	34	22	32	39
M95-224033	30	35	28	29	30	20	32	33
M95-227016	31	36	29	33	31	24	32	34
M95-228092	26	32	23	26	30	21	26	24
M95-241085	26	32	26	25	24	18	27	27
M95-265009	32	39	30	33	32	23	31	38
M95-269063	28	32	25	29	28	19	28	32
M95-288008	25	30	24	23	26	16	26	28
M95-327061	31	39	30	33	31	19	30	34
M96-140012	30	37	30	32	29	22	31	30
ND98-634	26	32	26	25	26	18	28	30
ND98-658	23	28	22	21	23	16	25	26
ND98-2043	27	32	27	24	25	17	27	33
ND98-2235	30	36	28	32	30	19	28	34
ND98-2252	29	33	27	30	29	20	28	36
OAC 00-01	27	26	22	27	31	21	30	32
OAC 00-02	26	30	20	23	29	18	28	31
OAC 00-18	29	30	21	31	33	24	32	32
OAC 00-22	31	35	29	28	33	24	31	36
OAC 00-24	27	31	23	24	31	19	30	32
OAC 00-26	32	39	30	29	34	26	32	35
OAC 00-33	29	32	27	26	31	23	31	31
ORC 2001	28	31	27	27	29	21	29	31
ORC 2002	28	31	23	30	29	21	31	32
SD96-135-3	27	30	26	27	26	18	28	37
SD97-92-2	28	33	27	27	28	20	30	33
SD97-92-3	27	31	23	28	26	19	29	31
SD98-577	30	36	29	31	31	21	28	31
SD98-586	25	29	22	26	27	18	27	27
SD98-2707	27	30	26	26	28	18	29	33
SD98-3289	30	35	29	29	31	23	32	35
SD98-3742	30	37	27	31	31	22	30	31

## PRELIMINARY TEST 0, 2001

## SEED SIZE (g/100)

Strain	Mean 7 Tests	Morris MN	Rose- mount MN	Cassel- ton ND	Ottawa Ont.	Wood- stock Ont.	St Bruno Montarville Que.	Water- town SD
Lambert (0)	15.6	14.6	13.5	17.2	14.9	16.6	19.4	12.9
Parker (I)	18.7	19.4	15.4	18.2	19.7	22.1	20.4	16.0
Surge	19.6	18.8	16.5	18.2	20.1	23.3	23.9	16.2
Traill (E)	15.0	14.1	13.0	15.9	14.7	16.4	17.8	12.8
M95-205041	15.4	16.0	12.4	17.2	14.5	16.2	19.5	12.3
M95-209020	14.4	14.4	12.2	16.7	14.2	15.0	16.6	11.9
M95-210021	14.7	13.1	13.6	14.9	14.1	15.2	20.3	11.7
M95-210133	14.4	14.2	12.2	15.3	14.1	15.3	18.3	11.2
M95-218042	14.6	14.3	13.0	13.8	15.0	16.3	18.1	11.8
M95-222055	16.2	16.8	13.0	16.9	15.8	18.1	20.1	12.9
M95-223055	16.5	17.0	14.1	16.8	16.0	17.2	20.7	13.4
M95-223099	18.8	19.2	16.3	18.9	19.3	20.3	22.2	15.4
M95-224033	16.7	15.8	14.1	16.3	16.7	18.9	20.9	14.5
M95-227016	16.3	16.6	13.5	17.2	16.7	17.5	20.9	12.0
M95-228092	17.8	16.9	15.9	15.8	18.7	21.1	21.2	15.3
M95-241085	15.6	15.7	13.6	17.1	14.6	17.0	18.6	12.6
M95-265009	14.5	13.3	12.5	15.0	15.2	15.9	19.1	10.8
M95-269063	16.1	15.3	13.8	16.6	15.7	18.3	19.3	13.4
M95-288008	15.5	15.6	13.9	15.6	15.2	17.1	19.0	12.2
M95-327061	17.2	17.0	15.0	18.0	16.7	19.6	21.0	13.4
M96-140012	15.9	16.5	13.3	16.6	15.5	18.8	18.3	12.6
ND98-634	17.2	17.1	13.5	17.5	17.2	17.9	22.5	14.4
ND98-658	15.7	15.9	12.1	16.0	15.5	18.1	19.7	12.8
ND98-2043	16.7	16.8	13.9	17.3	16.0	18.3	20.7	14.1
ND98-2235	19.0	17.9	15.8	19.6	20.1	22.5	22.9	14.0
ND98-2252	16.1	15.7	13.7	16.4	15.6	19.1	19.2	13.2
OAC 00-01	14.9	15.8	11.4	16.7	14.2	16.1	17.3	12.8
OAC 00-02	14.3	12.6	10.3	16.4	14.4	16.2	17.9	12.2
OAC 00-18	12.9	13.3	10.4	13.5	12.4	14.9	15.1	10.8
OAC 00-22	15.9	17.2	13.5	15.2	15.8	18.5	18.4	12.4
OAC 00-24	16.6	16.5	14.9	18.1	16.1	17.9	19.0	13.4
OAC 00-26	16.2	15.8	13.6	16.3	17.0	18.5	19.5	12.5
OAC 00-33	16.9	18.0	13.7	17.7	15.2	19.5	21.0	13.3
ORC 2001	15.8	15.1	13.6	15.3	16.4	18.7	19.4	12.1
ORC 2002	17.8	17.5	14.6	16.9	18.7	19.8	22.3	14.9
SD96-135-3	20.6	20.9	17.2	21.1	22.0	23.3	25.1	14.6
SD97-92-2	16.8	17.6	14.0	16.9	16.8	18.6	20.0	13.9
SD97-92-3	15.2	15.1	12.6	16.8	14.0	16.2	18.6	13.0
SD98-577	18.2	17.7	15.2	17.4	20.5	19.6	20.9	15.9
SD98-586	18.9	19.3	15.4	18.6	19.8	21.5	22.1	15.4
SD98-2707	23.5	22.9	20.8	23.0	24.5	26.8	26.8	19.9
SD98-3289	17.7	18.3	14.8	17.3	18.6	18.5	21.2	15.0
SD98-3742	16.3	16.2	13.6	15.4	17.1	19.2	19.3	13.6

PRELIMINARY TEST 0, 2001

SEED QUALITY (score)

Strain	Mean 5 Tests	Morris MN	Rose- mount MN	Cassel- ton ND	Ottawa Ont.	Wood- stock Ont.	St Bruno Montarville Que.	Water- town SD
Lambert (0)	2.2	1.5	2.5			2.5	1.3	3.0
Parker (I)	2.4	2.5	3.0			2.5	1.0	3.0
Surge	2.4	1.0	3.0			2.5	2.7	3.0
Trail (E)	2.4	2.0	2.5			2.5	2.0	3.0
M95-205041	3.0	2.5	3.5			4.0	1.0	4.0
M95-209020	2.0	1.5	2.5			2.0	1.0	3.0
M95-210021	2.5	1.5	4.0			3.0	2.0	2.0
M95-210133	2.4	2.0	3.0			2.0	2.0	3.0
M95-218042	2.0	1.5	2.5			2.0	1.0	3.0
M95-222055	2.5	2.0	3.5			2.0	1.0	4.0
M95-223055	2.4	1.5	3.0			2.0	2.3	3.0
M95-223099	2.2	1.5	2.5			2.5	2.7	2.0
M95-224033	2.2	1.5	2.5			1.5	2.3	3.0
M95-227016	2.2	2.0	2.0			1.5	2.3	3.0
M95-228092	1.8	2.0	2.0			1.5	1.3	2.0
M95-241085	2.6	2.5	3.0			2.5	2.0	3.0
M95-265009	1.9	1.5	3.0			2.0	1.0	2.0
M95-269063	2.0	1.5	2.5			1.5	1.7	3.0
M95-288008	2.0	1.5	2.5			2.0	2.0	2.0
M95-327061	2.4	2.5	3.0			2.5	2.0	2.0
M96-140012	2.1	1.0	3.0			2.0	1.3	3.0
ND98-634	2.6	2.5	3.5			2.5	2.3	2.0
ND98-658	2.7	2.0	2.5			4.0	3.0	2.0
ND98-2043	2.5	2.0	2.5			3.0	3.0	2.0
ND98-2235	1.8	1.0	2.5			1.5	2.0	2.0
ND98-2252	2.5	2.5	2.5			2.0	2.7	3.0
OAC 00-01	1.9	1.5	3.0			2.0	1.0	2.0
OAC 00-02	2.0	2.0	3.0			2.0	1.0	2.0
OAC 00-18	2.3	1.5	3.0			3.5	1.7	2.0
OAC 00-22	2.1	1.5	3.0			2.0	1.0	3.0
OAC 00-24	2.5	2.0	2.5			3.5	1.5	3.0
OAC 00-26	2.1	1.5	2.5			2.5	1.0	3.0
OAC 00-33	2.2	1.5	2.5			2.5	2.3	2.0
ORC 2001	1.5	2.0	2.0			1.5	1.0	1.0
ORC 2002	2.3	2.5	3.0			2.0	2.0	2.0
SD96-135-3	2.5	1.5	3.0			3.0	3.0	2.0
SD97-92-2	2.1	1.5	2.5			2.0	1.3	3.0
SD97-92-3	2.6	2.0	3.0			2.5	2.3	3.0
SD98-577	2.0	2.0	2.0			2.0	1.0	3.0
SD98-586	2.0	2.0	2.0			2.0	1.0	3.0
SD98-2707	2.5	1.5	2.5			2.5	3.0	3.0
SD98-3289	2.1	2.0	3.0			2.0	1.3	2.0
SD98-3742	1.7	1.5	2.5			1.5	1.0	2.0

## PRELIMINARY TEST 0, 2001

## PROTEIN (%)

Strain	Mean 5 Tests	Morris MN	Casselton ND	Ottawa Ont.	Woodstock Ont.	Saint Bruno de Montarville Que.
Lambert (0)	40.5	40.4	38.7	40.6	43.0	39.8
Parker (I)	40.5	39.8	38.9	39.9	43.2	40.5
Surge	42.3	39.3	40.6	42.5	45.1	43.8
Traill (E)	41.6	41.6	40.2	41.4	43.7	41.0
M95-205041	41.0	39.4	39.5	42.5	43.1	40.5
M95-209020	40.6	39.4	39.5	41.9	43.0	39.3
M95-210021	39.6	36.6	39.4	40.8	41.4	39.7
M95-210133	39.9	37.8	38.1	41.2	41.8	40.6
M95-218042	40.5	39.4	39.2	41.0	42.3	40.7
M95-222055	41.0	39.0	40.5	41.0	43.2	41.1
M95-223055	41.9	39.3	41.1	42.4	44.1	42.4
M95-223099	40.4	38.7	38.9	41.4	42.9	40.4
M95-224033	40.6	39.4	39.5	41.7	42.1	40.3
M95-227016	40.0	38.6	38.8	40.1	42.1	40.3
M95-228092	39.1	37.3	37.4	40.6	41.4	39.0
M95-241085	39.6	38.2	37.7	41.0	41.3	39.7
M95-265009	38.9	36.1	38.0	39.8	42.1	38.3
M95-269063	39.5	37.9	39.0	40.2	41.6	38.8
M95-288008	41.4	39.8	39.5	41.8	44.0	42.0
M95-327061	39.2	38.0	38.2	39.3	41.6	38.9
M96-140012	40.0	39.1	38.3	40.5	42.8	39.5
ND98-634	40.1	37.8	38.6	41.6	41.5	41.0
ND98-658	41.0	38.6	39.6	41.7	42.9	42.3
ND98-2043	40.1	38.8	38.0	40.5	42.2	41.0
ND98-2235	41.9	39.7	40.4	42.1	43.6	43.9
ND98-2252	40.3	38.5	38.6	40.7	42.4	41.2
OAC 00-01	39.2	37.5	38.2	40.9	41.9	37.6
OAC 00-02	38.9	38.9	37.2	40.1	41.1	37.1
OAC 00-18	40.8	39.9	39.7	41.5	43.0	40.1
OAC 00-22	39.0	38.8	37.9	38.8	40.8	38.7
OAC 00-24	39.8	38.1	38.8	40.8	41.9	39.4
OAC 00-26	39.3	37.8	38.5	38.9	41.8	39.3
OAC 00-33	37.8	37.0	37.7	37.7	40.9	35.9
ORC 2001	39.5	37.7	38.2	38.9	41.7	41.0
ORC 2002	41.3	39.6	40.7	41.0	43.0	42.0
SD96-135-3	40.6	39.0	38.2	40.7	42.9	42.2
SD97-92-2	43.5	42.3	42.1	43.8	45.6	43.6
SD97-92-3	46.6	45.0	44.4	48.6	48.7	46.2
SD98-577	43.2	41.4	39.9	43.9	44.9	46.0
SD98-586	40.9	38.4	39.7	41.3	43.4	41.6
SD98-2707	42.6	41.2	40.2	43.1	44.0	44.6
SD98-3289	40.9	39.9	39.5	41.0	42.5	41.6
SD98-3742	38.7	36.9	38.0	38.3	41.0	39.1



PRELIMINARY TEST 0, 2001

OIL (%)

Strain	Mean 5 Tests	Morris MN	Casselton ND	Ottawa Ont.	Woodstock Ont.	Saint Bruno de Montarville Que.
Lambert (0)	21.9	21.0	22.1	21.8	21.1	23.6
Parker (I)	20.7	20.2	20.3	21.5	20.2	21.5
Surge	20.6	21.4	20.1	20.6	20.2	20.7
Trail (E)	21.0	20.0	21.0	21.3	20.3	22.4
M95-205041	21.2	21.4	21.2	20.5	20.0	22.8
M95-209020	20.9	21.1	21.5	19.9	19.5	22.6
M95-210021	22.0	22.3	20.9	21.7	22.3	22.7
M95-210133	21.9	22.1	21.5	21.8	21.4	22.9
M95-218042	21.2	21.2	21.0	21.0	20.5	22.1
M95-222055	21.2	21.3	20.1	21.2	20.8	22.4
M95-223055	20.9	21.1	20.3	20.8	20.2	21.9
M95-223099	21.6	21.7	21.7	21.2	20.7	22.7
M95-224033	21.3	21.1	21.3	20.7	20.8	22.5
M95-227016	21.2	20.9	20.3	21.2	21.1	22.5
M95-228092	21.8	22.4	21.5	20.9	21.1	22.9
M95-241085	22.3	22.2	22.2	21.9	22.0	23.2
M95-265009	21.6	22.4	21.1	20.9	20.9	22.9
M95-269063	20.6	20.6	20.1	20.6	20.0	21.5
M95-288008	20.5	20.4	20.6	20.5	19.5	21.7
M95-327061	21.2	21.2	21.0	21.1	20.6	22.2
M96-140012	21.7	21.5	21.6	21.5	20.6	23.3
ND98-634	21.4	21.8	21.1	21.4	20.8	21.9
ND98-658	21.3	21.8	21.3	21.1	20.7	21.7
ND98-2043	21.2	21.4	21.1	21.0	20.6	22.0
ND98-2235	20.0	20.5	19.5	19.8	20.1	20.2
ND98-2252	20.4	20.8	20.0	20.0	20.1	21.0
OAC 00-01	22.1	21.8	22.1	21.6	21.3	23.7
OAC 00-02	22.4	20.8	22.2	22.7	22.5	24.0
OAC 00-18	20.6	20.4	20.2	20.3	20.1	22.0
OAC 00-22	20.9	20.5	20.7	21.0	20.6	21.9
OAC 00-24	22.0	22.4	21.1	21.8	21.4	23.2
OAC 00-26	20.9	20.5	19.9	21.6	20.6	22.1
OAC 00-33	22.2	21.7	21.2	22.8	21.2	24.0
ORC 2001	21.7	21.3	21.0	22.8	21.4	22.1
ORC 2002	20.5	19.9	19.8	20.8	20.7	21.2
SD96-135-3	21.4	21.4	21.0	21.9	21.2	21.7
SD97-92-2	19.7	19.8	19.7	19.0	19.2	20.6
SD97-92-3	18.2	18.6	18.8	16.7	17.5	19.6
SD98-577	19.8	19.8	19.6	19.9	19.7	19.8
SD98-586	20.8	21.2	20.2	20.9	20.2	21.8
SD98-2707	19.9	19.9	19.8	20.0	19.8	20.0
SD98-3289	20.9	20.9	20.2	21.3	20.8	21.5
SD98-3742	21.9	22.1	21.1	22.3	21.2	22.8

Uniform Test I, 2001

	Strain	Parentage	Previous Testing	Generation Composited	Unique Traits
1.	Parker (I)	A79-136012 x Dawson	12	F5	Rps1
2.	IA1008 (SCN)	Northrup King S20-20 x Jack	3	F5	SCN
3.	IA2050 (L) (BSR)	Northrup King S24-92 x A91-501002	3	F5	BSR
4.	Lambert (O)	M75-274 x M76-151	9	F5	Rps1
5.	M93-326056	Kasota x M89-782	PTI	F5	Rps1c
6.	M94-162105	IA2008R x M90-1278	PTI	F5	Rps1k, BSR
7.	M94-209136	Agassiz x AM90-211003	PTI	F5	Rps1, BSR
8.	OAC 98-12	92546-01td x OAC Bayfield	PTI	F5	
9.	SD96-111	IA2008 x HS88-4909	1	F5	
10.	SD96-460K	(Freeborn x Surge) x Hendricks	1	?	SCN
11.	SD97-1233	SL91-1767M x E91031	PTI	F5	

UNIFORM TEST I, 2001

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	Chlorosis Score	BSR	Stand	Shattering
		Yellow Medicine Co.	Score Arlington	Score Arlington	Score Manhattan
Parker (I)	WGBSYBfi	4.5	6.7	10.0	1.0
IA1008 (SCN)	WGBDYYI	4.9	0.7	7.3	2.0
IA2050 (L) (BSR)	PTBDYBII	4.9	0.0	7.3	2.0
Lambert (0)	PGBIYBII	4.3	0.0	10.0	2.0
M93-326056	WGBDYBfi	4.9	2.7	10.0	1.0
M94-162105	WGTDYBfi	3.9	1.0	10.0	2.0
M94-209136	PGBSYBII	4.2	3.7	8.7	2.0
OAC 98-12	PGBIYYI	4.7	5.0	10.0	3.0
SD96-111	WGTDYBfi	4.4	5.7	9.3	2.0
SD96-460K	WGTDYBfi	4.7	2.7	10.0	1.0
SD97-1233	PTBDYBII	4.7	6.0	8.7	1.0

UNIFORM TEST I, 2001

DISEASE DATA

Strain	SDS	PR		PS	P&SB
	Data DX Score	Race Lafayette 4	Race Lafayette 7	a Lafayette %	n Lafayette %
Parker (I)	0.2	S	S	26	2
IA1008 (SCN)	0.0	H	R	46	4
IA2050 (L) (BSR)	0.1	S	R	14	14
Lambert (0)	1.1	H	S	24	8
M93-326056	3.0	S	R	18	0
M94-162105	1.0	R	R	32	4
M94-209136	4.3	S	S	4	4
OAC 98-12	0.2	R	R	20	4
SD96-111	2.1	R	S	20	2
SD96-460K	0.4	S	S	48	4
SD97-1233	0.4	S	S	22	-2

**UNIFORM TEST I, 2001**

**REGIONAL SUMMARY**

No. of Tests Strain	Yield 13 bu/a	Rank 13 No.	Maturity 13 Date	Lodging 14 Score	Plant Height 13 In.	Seed Size 12 g/100	Seed Quality 8 Score	Green Stem 3 Score	Composition	
									Protein 5 %	Oil 5 %
Parker (I)	46.2	8	9/14	1.8	35	16.4	1.7	1.0	39.6	21.4
IA1008 (SCN)	49.3	2	3.5	1.4	36	16.5	1.6	2.8	39.2	20.9
IA2050 (L) (BSR)	48.8	3	7.1	1.6	31	15.7	1.2	2.0	40.2	20.8
Lambert (0)	40.3	11	-5.6	1.4	28	14.8	1.8	1.0	40.3	21.8
M93-326056	40.7	10	-3.3	1.2	30	14.8	1.6	1.0	40.3	21.0
M94-162105	47.9	6	3.6	1.3	34	15.8	1.4	3.1	39.7	21.0
M94-209136	46.6	7	-1.7	1.5	31	14.4	1.4	1.0	40.4	20.6
OAC 98-12	48.7	5	5.1	1.6	32	18.3	1.5	1.9	39.0	22.1
SD96-111	45.9	9	0.3	1.3	33	14.0	1.4	1.7	38.3	22.3
SD96-460K	49.4	1	3.6	1.3	33	15.6	1.4	1.5	39.2	21.5
SD97-1233	48.8	3	2.4	1.6	32	16.9	1.8	2.1	38.5	21.5

120.3 Days After Planting

**UNIFORM TEST I, 2001**

**2000-2001 2-YEAR MEAN**

No. of Tests Strain	Yield 28 bu/a	Rank 28 No.	Maturity 26 Date	Lodging 29 Score	Plant Height 29 In.	Seed Size 27 g/100	Composition	
							Protein 10 %	Oil 10 %
Parker (I)	47.1	4	9/14	2.0	34	16.5	40.6	20.7
IA1008 (SCN)	48.9	3	3.2	1.4	35	17.2	41.0	20.1
IA2050 (L) (BSR)	51.2	1	5.5	1.6	32	15.8	40.9	20.2
Lambert (0)	41.0	6	-6.2	1.5	28	15.1	41.4	21.1
SD96-111	47.1	4	0.2	1.6	33	14.2	39.2	21.6
SD96-460K	49.5	2	4.2	1.5	33	15.9	40.1	20.9

121.3 Days After Planting

**UNIFORM TEST I, 2001**

**YIELD (bu/a)**

Strain	Mean 13 Tests	Fayette- ville AR*	Ames IA	Kanawha IA	Lafayette IN	Wanatah IN	Ingham County MI	Saginaw* County MI	Lamber- ton MN	Waseca MN
Parker (I)	46.2	28.3	50.6	53.2	29.6	44.7	39.1	2.9	44.9	63.8
IA1008 (SCN)	49.3	34.7	46.3	56.4	41.2	49.4	41.4	14.5	47.0	61.1
IA2050 (L) (BSR)	48.8	45.5	46.6	54.1	42.8	48.8	41.3	10.4	44.3	57.4
Lambert (0)	40.3	23.7	45.6	44.8	24.7	41.5	27.6	2.5	41.0	53.6
M93-326056	40.7	35.8	50.8	45.7	30.4	44.5	28.7	3.4	42.1	52.4
M94-162105	47.9	35.7	46.6	58.8	37.2	52.4	37.6	8.2	49.1	60.7
M94-209136	46.6	29.2	57.3	55.8	31.6	51.6	33.4	4.7	48.9	62.2
OAC 98-12	48.7	54.2	54.1	47.7	34.6	49.8	44.0	13.4	48.4	62.7
SD96-111	45.9	29.1	48.3	57.7	33.0	46.4	33.0	4.9	51.7	58.3
SD96-460K	49.4	35.0	56.0	56.7	38.7	48.4	37.2	10.8	47.6	58.4
SD97-1233	48.8	36.6	50.7	54.4	30.7	54.6	41.1	4.6	44.6	68.4
C.V. (%)		14.7	8.5	9.0	8.7	7.7	10.9	21.0	12.0	8.1
L.S.D. (5%)		10.1	9.6	10.6	5.0	6.2	8.9	3.4	9.5	8.3
Row Sp. (In.)		7.5	27	27	24	24	15	15	10	10
Rows/Plot		7	4	4	4	4	6	6	10	10
Reps		3	2	2	3	3	2	2	3	3

\* Data not included in mean.

**UNIFORM TEST I, 2001**

**YIELD RANK**

Strain	Yield Rank	Fayette- ville AR*	Ames IA	Kanawha IA	Lafayette IN	Wanatah IN	Ingham County MI	Saginaw County MI	Lamber- ton MN	Waseca MN
Parker (I)	8	10	6	8	10	9	5	10	7	2
IA1008 (SCN)	2	7	10	4	2	5	2	1	6	5
IA2050 (L) (BSR)	3	2	8	7	1	6	3	4	9	9
Lambert (0)	11	11	11	11	11	11	11	11	11	10
M93-326056	10	4	4	10	9	10	10	9	10	11
M94-162105	6	5	8	1	4	2	6	5	2	6
M94-209136	7	8	1	5	7	3	8	7	3	4
OAC 98-12	5	1	3	9	5	4	1	2	4	3
SD96-111	9	9	7	2	6	8	9	6	1	8
SD96-460K	1	6	2	3	3	7	7	3	5	7
SD97-1233	3	3	5	6	8	1	4	8	8	1

\* Data not included in mean.

UNIFORM TEST I, 2001

YIELD (bu/a)

Strain	Portage* ville MO	Beemer NE	Goehner NE	Ridge- town Ont.	Talbot- ville Ont.	Water- town SD	Arlington WI
Parker (I)	45.4	35.6	60.2	54.9	29.4	39.6	55.0
IA1008 (SCN)	42.8	38.9	72.4	57.0	31.9	40.3	58.1
IA2050 (L) (BSR)	57.2	40.8	83.0	52.5	30.4	31.4	60.8
Lambert (O)	28.4	29.5	50.6	52.1	29.8	42.8	39.7
M93-326056	41.0	32.7	32.4	52.8	26.1	39.1	51.4
M94-162105	58.4	34.4	66.7	52.3	27.7	36.1	63.3
M94-209136	40.8	33.2	66.6	46.2	25.0	38.9	55.5
OAC 98-12	61.8	42.2	72.5	53.1	27.0	34.0	63.3
SD96-111	37.2	38.5	63.8	52.4	22.9	38.6	52.2
SD96-460K	54.3	36.4	73.8	59.0	27.2	40.0	62.4
SD97-1233	31.3	40.3	71.7	54.0	31.4	38.0	53.9
C.V. (%)	8.3	10.5	6.8	6.5	12.2	7.9	4.7
L.S.D. (5%)	5.3	6.6	8.7	4.9	6.1	5.1	3.7
Row Sp. (In.)	7.5	30	30	17	14	30	15
Rows/Plot	5	4	4	5	4	4	4
Reps	3	3	3	3	2	3	3

\* Data not included in mean.

UNIFORM TEST I, 2001

YIELD RANK

Strain	Portage* ville MO	Beemer NE	Goehner NE	Ridge- town Ont.	Talbot- ville Ont.	Water- town SD	Arlington WI
Parker (I)	5	7	9	3	5	4	8
IA1008 (SCN)	6	4	4	2	1	2	5
IA2050 (L) (BSR)	3	2	1	7	3	11	4
Lambert (O)	11	11	10	10	4	1	12
M93-326056	7	10	11	6	9	5	11
M94-162105	2	8	6	9	6	9	1
M94-209136	8	9	7	11	10	6	7
OAC 98-12	1	1	3	5	8	10	1
SD96-111	9	5	8	8	11	7	10
SD96-460K	4	6	2	1	7	3	3
SD97-1233	10	3	5	4	2	8	9

\* Data not included in mean.

**UNIFORM TEST I, 2001**

**MATURITY (date)**

Strain	Mean 13 Tests	Fayette- ville AR	Ames IA	Kanawha IA	Lafayette IN	Wanatah IN	Ingham County MI	Saginaw County MI	Lamber- ton MN	Waseca MN
Parker (I)	9/14	7/22	9/8		8/31	9/16	9/8	9/10	9/28	9/28
IA1008 (SCN)	3.5	5	7		+7	+4	1	8	3	7
IA2050 (L) (BSR	7.1	8	9		+13	+9	7	15	6	8
Lambert (0)	-5.6	-6	-4		-5	-6	-1	0	-5	-7
M93-326056	-3.3	-4	-4		-3	-5	-1	1	-4	-5
M94-162105	3.6	3	2		+6	+4	4	9	3	5
M94-209136	-1.7	1	-2		+1	+2	0	2	-2	0
OAC 98-12	5.1	15	7		+9	+8	6	15	3	5
SD96-111	0.3	-1	0		+2	+3	0	0	0	1
SD96-460K	3.6	2	5		+6	+4	3	6	1	5
SD97-1233	2.4	-1	5		+6	+8	1	5	2	3
Date Planted	5/17	4/25	5/10		5/15	5/31	5/8	5/10	5/15	5/29
Days to Mature	120	88	121		108	108	123	123	136	122

\* Data not included in mean.

**UNIFORM TEST I, 2001**

**LODGING (score)**

Strain	Mean 14 Tests	Fayette- ville AR	Ames IA	Kanawha IA	Lafayette IN	Wanatah IN	Ingham County MI	Saginaw County MI	Lamber- ton MN	Waseca MN
Parker (I)	1.8	1.0	2.3	1.8	1.3	1.2	2.0	1.0	3.0	3.0
IA1008 (SCN)	1.4	1.0	2.8	1.5	1.0	1.2	1.0	1.0	2.7	2.3
IA2050 (L) (BSR	1.6	1.0	2.0	1.5	1.0	1.8	1.0	1.0	2.7	2.0
Lambert (0)	1.4	1.0	2.0	1.3	1.2	1.0	1.0	1.0	3.3	2.0
M93-326056	1.2	1.0	1.3	1.5	1.0	1.3	1.0	1.0	2.0	2.0
M94-162105	1.3	1.0	1.8	1.5	1.0	1.2	1.0	1.0	2.3	2.0
M94-209136	1.5	1.0	2.5	1.3	1.0	1.3	1.0	1.0	3.7	2.0
OAC 98-12	1.6	1.0	3.0	1.5	1.2	1.7	1.5	1.0	3.0	2.0
SD96-111	1.3	1.0	1.3	1.5	1.0	1.2	1.0	1.0	2.3	2.0
SD96-460K	1.3	1.0	2.0	1.3	1.0	1.2	1.0	1.0	1.7	2.0
SD97-1233	1.6	1.0	2.8	2.0	1.0	1.7	1.5	1.0	3.3	2.0

\* Data not included in mean.

**UNIFORM TEST I, 2001**

**MATURITY (date)**

Strain	Portage* ville MO	Beemer NE	Goehner NE	Ridge- town Ont.	Talbot- ville Ont.	Water- town SD	Arlington WI
Parker (I)	7/22	9/24	9/9	253	9/13	9/20	9/21
IA1008 (SCN)	+1	2	4	1	3	1	8
IA2050 (L) (BSR)	+7	6	10	4	6	11	11
Lambert (0)	-6	-8	-5	-7	-6	-14	-15
M93-326056	-2	-9	-5	-4	-3	-6	-2
M94-162105	+3	3	5	2	6	3	5
M94-209136	0	-4	-2	-3	-2	-5	-4
OAC 98-12	+6	5	8	4	8	3	2
SD96-111	0	1	3	0	-3	0	2
SD96-460K	+3	4	7	2	5	4	5
SD97-1233	0	4	4	1	6	2	-2
Date Planted	4/19	6/7	5/25	5/14	5/18	5/15	5/1
Days to Mature	94	109	107	118	118	128	143

\* Data not included in mean.

**UNIFORM TEST I, 2001**

**LODGING (score)**

Strain	Portage* ville MO	Beemer NE	Goehner NE	Ridge- town Ont.	Talbot- ville Ont.	Water- town SD	Arlington WI
Parker (I)	1.0	1.0	2.0	1.3	1.5	2.0	2.3
IA1008 (SCN)	1.0	1.0	1.3	1.0	1.0	1.0	1.0
IA2050 (L) (BSR)	1.0	1.0	1.3	1.0	1.5	2.0	2.0
Lambert (0)	1.0	1.0	1.0	1.0	1.0	2.0	1.0
M93-326056	1.0	1.0	1.0	1.0	1.0	1.0	1.0
M94-162105	1.0	1.0	1.3	1.0	1.2	1.0	1.0
M94-209136	1.0	1.0	1.7	1.0	1.0	1.0	1.3
OAC 98-12	1.0	1.0	1.0	1.3	1.0	2.0	1.7
SD96-111	1.0	1.0	1.3	1.0	1.0	1.0	1.0
SD96-460K	1.0	1.0	1.0	1.0	1.0	1.0	1.3
SD97-1233	1.0	1.0	1.7	1.0	1.0	1.0	1.7

\* Data not included in mean.



**UNIFORM TEST I, 2001**

**PLANT HEIGHT (inches)**

Strain	Mean 13 Tests	Fayette- ville AR	Ames IA	Kanawha IA	Lafayette IN	Wanatah IN	Ingham County MI	Saginaw County MI	Lamber- ton MN	Waseca MN
Parker (I)	35	19	37	40	36	37	30	18	42	43
IA1008 (SCN)	36	21	40	41	37	38	30	19	43	45
IA2050 (L) (BSR)	31	22	32	39	31	38	27	17	37	39
Lambert (O)	28	15	31	32	28	34	21	15	35	30
M93-326056	30	17	32	35	31	37	23	16	36	34
M94-162105	34	22	36	41	36	39	27	16	41	41
M94-209136	31	19	33	37	32	38	24	17	39	40
OAC 98-12	32	23	37	37	33	37	28	18	39	40
SD96-111	33	20	33	39	35	37	26	20	38	38
SD96-460K	33	21	36	40	35	37	28	18	37	41
SD97-1233	32	22	35	42	33	39	29	16	39	37

\* Data not included in mean.

**UNIFORM TEST I, 2001**

**SEED SIZE (g/100)**

Strain	Mean 12 Tests	Fayette- ville AR	Ames IA	Kanawha IA	Lafayette IN	Wanatah IN	Ingham County MI	Saginaw County MI	Lamber- ton MN	Waseca MN
Parker (I)	16.4	12.1	16.7	15.3	13.0	19.2	17.4		17.3	19.3
IA1008 (SCN)	16.5	13.0	18.1	16.0	15.3	19.8	17.5		17.7	17.3
IA2050 (L) (BSR)	15.7	15.1	14.8	14.6	16.2	19.1	16.9		14.8	16.1
Lambert (O)	14.8	12.3	15.8	14.6	12.3	16.1	14.6		16.8	17.3
M93-326056	14.8	11.8	16.0	13.8	12.1	16.5	14.7		14.9	17.4
M94-162105	15.8	9.8	15.4	14.9	13.3	19.1	16.7		15.3	17.5
M94-209136	14.4	10.4	15.7	14.0	11.0	16.9	14.1		14.9	16.4
OAC 98-12	18.3	18.0	18.1	16.5	16.0	23.3	20.8		18.3	20.0
SD96-111	14.0	9.7	15.0	13.6	11.2	15.8	14.7		14.3	16.0
SD96-460K	15.6	11.7	15.4	15.1	12.5	18.3	18.0		15.0	17.1
SD97-1233	16.9	12.2	17.4	15.4	15.4	21.0	19.1		16.1	17.0

\* Data not included in mean.

**UNIFORM TEST I, 2001**

**PLANT HEIGHT (inches)**

Strain	Portage* ville MO	Beemer NE	Goehner NE	Ridge- town Ont.	Talbot- ville Ont.	Water- town SD	Arlington WI
Parker (I)	20		35	37	23	36	39
IA1008 (SCN)	19		38	37	22	35	37
IA2050 (L) (BSR)	22		33	29	21	28	35
Lambert (0)	13		29	31	18	32	23
M93-326056	16		28	31	19	29	36
M94-162105	22		38	36	23	32	37
M94-209136	18		30	31	21	32	32
OAC 98-12	22		35	35	20	28	31
SD96-111	20		35	34	21	35	36
SD96-460K	20		35	32	19	32	38
SD97-1233	18		31	32	22	30	35

\* Data no included in mean.

**UNIFORM TEST I, 2001**

**SEED SIZE (g/100)**

Strain	Portage* ville MO	Beemer NE	Goehner NE	Ridge- town Ont.	Talbot- ville Ont.	Water- town SD	Arlington WI
Parker (I)	12.6	16.0	15.9		18.1	13.5	15.3
IA1008 (SCN)	16.0	14.4	15.7		17.7	12.7	15.8
IA2050 (L) (BSR)	15.9	14.7	15.5		18.0	12.3	15.5
Lambert (0)	15.0	14.0	14.2		15.8	13.5	12.7
M93-326056	14.8	14.4	14.3		16.8	12.7	14.5
M94-162105	15.9	14.8	15.7		17.2	13.1	16.1
M94-209136	13.1	14.4	13.6		15.7	12.3	13.6
OAC 98-12	15.0	16.0	18.6		20.1	14.1	18.1
SD96-111	14.6	13.1	14.4		15.1	11.9	12.8
SD96-460K	14.4	14.5	15.6		18.3	12.5	15.1
SD97-1233	17.2	15.5	16.0		20.0	14.1	16.1

\* Data no included in mean.

UNIFORM TEST I, 2001

SEED QUALITY (score)

Strain	Mean 8 Tests	Fayette- ville AR	Ames IA	Kanawha IA	Lafayette IN	Wanatah IN	Ingham County MI	Saginaw County MI	Lamber- ton MN	Waseca MN
Parker (I)	1.7				1.5	1.0			1.7	1.0
IA1008 (SCN)	1.6				1.0	1.0			1.7	1.0
IA2050 (L) (BSR)	1.2				1.0	1.0			2.3	1.3
Lambert (O)	1.8				1.0	1.5			1.3	1.3
M93-326056	1.6				1.0	1.0			2.0	1.0
M94-162105	1.4				1.0	1.0			2.0	1.0
M94-209136	1.4				1.0	1.0			1.7	1.0
OAC 98-12	1.5				1.0	1.0			1.7	1.0
SD96-111	1.4				1.0	1.0			1.7	1.3
SD96-460K	1.4				1.0	1.0			1.3	1.3
SD97-1233	1.8				2.0	1.0			2.0	1.7

\* Data not included in mean.

UNIFORM TEST I, 2001

SEED QUALITY (score)

Strain	Portage* ville MO	Beemer NE	Goehner NE	Ridge- town Ont.	Talbot- ville Ont.	Water- town SD	Arlington WI
Parker (I)	4.0			1.3	2.5	2.0	2.3
IA1008 (SCN)	3.0			1.3	1.5	3.0	2.0
IA2050 (L) (BSR)	3.0			1.0	1.0	1.0	1.3
Lambert (O)	4.0			1.3	2.5	3.0	2.7
M93-326056	4.0			1.3	2.5	2.0	2.0
M94-162105	4.0			1.0	2.5	2.0	1.0
M94-209136	4.0			1.0	1.5	2.0	2.0
OAC 98-12	4.0			1.3	2.0	2.0	1.7
SD96-111	4.0			1.0	1.5	2.0	1.3
SD96-460K	4.0			1.0	2.0	2.0	1.7
SD97-1233	4.0			1.3	2.5	2.0	2.0

\* Data no included in mean.

UNIFORM TEST I, 2001

GREEN STEM (score)

Strain	Mean 3 Tests	Ames IA	Ridge- town Ont.	Arlington WI
Parker (I)	1.0	1.0	1.0	1.0
IA1008 (SCN)	2.2	4.0	3.0	1.3
IA2050 (L) (BSR	1.5	3.0	2.0	1.0
Lambert (O)	1.0	1.0	1.0	1.0
M93-326056	1.0	1.0	1.0	1.0
M94-162105	2.7	4.0	3.7	1.7
M94-209136	1.0	1.0	1.0	1.0
OAC 98-12	1.9	2.0	2.7	1.0
SD96-111	1.5	2.0	1.7	1.3
SD96-460K	1.7	1.0	1.7	1.7
SD97-1233	1.7	3.0	2.3	1.0

\* Data not included in mean.

UNIFORM TEST I, 2001

PROTEIN (%)

Strain	Mean 5 Tests	Ames IA	Lafayette IN	Lamberton MN	Waseca MN	Talbotville Ont.
Parker (I)	39.6	40.4	39.9	37.7	39.7	40.5
IA1008 (SCN)	39.2	41.3	38.0	39.1	38.3	39.1
IA2050 (L) (BSR)	40.2	41.7	38.3	40.1	40.0	40.8
Lambert (O)	40.3	40.8	41.9	38.7	39.0	41.2
M93-326056	40.3	41.1	40.8	38.6	39.0	42.0
M94-162105	39.7	41.3	38.6	38.3	40.3	40.1
M94-209136	40.4	41.6	41.0	40.1	39.4	39.7
OAC 98-12	39.0	40.7	37.2	37.9	39.7	39.5
SD96-111	38.3	39.8	37.4	37.6	37.5	39.2
SD96-460K	39.2	40.6	38.3	36.9	39.6	40.7
SD97-1233	38.5	40.1	37.3	38.0	38.7	38.6

UNIFORM TEST I, 2001

OIL (%)

Strain	Mean 5 Tests	Ames IA	Lafayette IN	Lamberton MN	Waseca MN	Talbotville Ont.
Parker (I)	21.4	21.4	21.7	21.8	20.6	21.5
IA1008 (SCN)	20.9	20.6	21.8	20.5	19.9	21.8
IA2050 (L) (BSR)	20.8	20.8	22.2	20.0	19.8	21.4
Lambert (O)	21.8	22.2	21.6	21.9	21.7	21.8
M93-326056	21.0	21.5	20.8	21.1	20.6	20.8
M94-162105	21.0	21.0	22.3	20.8	19.8	21.2
M94-209136	20.6	20.6	20.3	20.4	20.3	21.3
OAC 98-12	22.1	22.3	23.9	21.7	20.7	22.1
SD96-111	22.3	22.4	23.1	21.9	21.7	22.3
SD96-460K	21.5	21.3	22.2	22.0	20.6	21.4
SD97-1233	21.5	21.1	23.0	21.2	20.4	21.7

Preliminary Test I, 2001

	Strain	Parentage	Generation Compositod	Unique Traits
1.	Parker (I)	A79-136012 x Dawson	F5	Rps1
2.	IA1008 (SCN)	Northrup King S20-20 x Jack	F5	SCN
3.	IA2050 (L) (BSR)	Northrup King S24-92 x A91-501002	F5	BSR
4.	Lambert (O)	M75-274 x M76-151	F5	Rps1
5.	A00-711020	A95-485020 x IA2036	F5	
6.	A00-711024	A95-485020 x IA2036	F5	
7.	A00-712003	AP1953 x Northrup King S20-91	F5	
8.	A00-712008	A95-485020 x AP1953	F5	
9.	A00-712009	A95-485020 x AP1953	F5	
10.	A00-712012	AP1953 x IA2038	F5	
11.	A00-712013	AP1953 x Pioneer P9321	F5	
12.	A00-712014	AP1953 x Pioneer P9321	F5	
13.	A00-712023	Pioneer P9233 x IA2038	F5	
14.	A00-712040	Northrup King S20-91 x AP3355	F4	
15.	A00-712043	Pioneer P9233 x AP1953	F4	
16.	A00-712047	Pioneer P9233 x AP1953	F4	
17.	A00-712049	Pioneer P9233 x AP1953	F4	
18.	A00-811025	A95-485020 x IA2036	F5	
19.	A00-812020	AP1953 x Pioneer P9321	F5	
20.	M95-215050	M92-836 x MN1801	F5	Rps1a
21.	M95-210031	Harmony x Surge	F5	Rps1a
22.	M95-211057	SD92-1272 x Agassiz	F5	Rps1a
23.	M95-223094	M91-228 x Surge	F5	Rps1a
24.	M95-228066	M91-557 x Archer	F5	Rps1k, BSR
25.	M95-241053	IA2021 x M91-201	F5	Rps1k
26.	M95-265051	IA2008R x Lambert	F5	Rps1k, BSR
27.	M95-265116	IA2008R x Lambert	F5	Rps1k, BSR
28.	M95-265118	IA2008R x Lambert	F5	Rps1k, BSR
29.	M95-265207	IA2008R x Lambert	F5	Rps1k, BSR
30.	M95-265222	IA2008R x Lambert	F5	Rps1k, BSR
31.	M95-271019	A93-555023 x Kato	F5	Rps1a
32.	M95-274132	Council x Northrup King S19-90	F5	Rps1c, White Mold
33.	M95-327084	Parker (3) x Marcus 95	F5	Rps1k
34.	M95-327228	Parker (3) x Marcus 95	F5	Rps6
35.	OAC 00-41	OAC Bayfield x (OT89-16 x OAC Shire)	F5	
36.	OAC 00-44	A92-525014 x OAC Bright	F5	
37.	OAC 00-48	ND90-3465 x (OT89-16 x OAC Shire)	F5	
38.	ORC 2005	Jacques J-251 x Northrup King S24-92	F5	
39.	ORC 2006	Jacques J-251 x Westag 97	F5	
40.	SD97-105	SD(ND)94-9231 x Surge	F4	Rps1a
41.	SD98-98	A92-525014 x Asgrow A1662	F5	Rps1a
42.	SD98-113	A92-525014 x Asgrow A1662	F5	Rps1a
43.	SD98-123	Hendricks x LN90-4366	F5	Rps1a
44.	SD98-1632	Ozzie x IA2014	F5	Rps1k
45.	SD98-3457	Surge x SD92-914	F5	Rps1a
46.	U99-003047	MSBP6S4	S5	
47.	U99-008027	MSBP6S4	S5	
48.	U99-013056	U95-2418 x A95-484016	F5	

PRELIMINARY TEST I, 2001  
DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	Chlorosis	Shattering	PR		PS	P&SB
		Score Yellow Medicine Co.	Score Manhattan	Lafayette Race 4	Lafayette Race 7	Lafayette a %	Lafayette n %
Parker (I)	WGBSYBfl	4.5	1.0	S	S	26	2
IA1008 (SCN)	WGBDYbI	4.9	2.0	H	R	46	4
IA2050 (L) (BSR)	PTBDYBII	4.3	2.0	S	R	14	14
Lambert (O)	PGBIYBII	4.3	1.0	H	S	24	8
A00-711020	PGBSYbI	5.0	1.0	H	R	40	4
A00-711024	PGBSYbI	4.9	1.0	H	R	52	2
A00-712003	PTBSYBrI	3.9	1.0	S	R	44	2
A00-712008	PTBSYBrI	4.0	1.0	S	S	42	10
A00-712009	PTBDYBrI	4.7	1.0	R	R	20	2
A00-712012	PTBSYBrI	4.5	1.0	R	R	20	8
A00-712013	PTBIYBrI	4.5	1.0	S	S	24	0
A00-712014	PTBDYBrI	4.7	1.0	S	S	4	2
A00-712023	PT+GBDYBrI	5.0	1.0	S	H	62	12
A00-712040	PTTDYBII	5.0	1.0	R	R	26	2
A00-712043	PTTDYBrI	4.7	1.0	S	S	38	0
A00-712047	P+WTB+TDYBrI	4.4	1.0	S	H	20	8
A00-712049	WTTIYBrI	4.5	1.0	S	S	40	6
A00-811025	PGBSYbI	4.7	2.0	H	H	66	0
A00-812020	PGBDYBrI	3.9	1.0	R	H	20	0
M95-215050	WGBDYBfl	4.5	2.0	H	H	16	0
M95-210031	P+WT+GBIYbI	4.7	1.0	S	S	2	6
M95-211057	WGBDYBfl	4.0	1.0	S	H	6	0
M95-223094	P+WGBDYbI	3.9	1.0	S	S	30	0
M95-228066	WGTDYbI	4.4	1.0	R	R	4	0
M95-241053	PTBDYBrI	4.0	2.0	R	R	18	6
M95-265051	WGBSYBfl	4.7	1.0	R	R	22	0
M95-265116	WGBDYBfl	4.3	1.0	S	S	40	0
M95-265118	WGBIYBfl	4.4	1.0	S	S	48	2
M95-265207	PGTIYBfl	4.7	1.0	R	R	4	6
M95-265222	WGBSYBfl	4.9	2.0	R	R	12	0
M95-271019	PTBDYBfl	4.7	1.0	R	H	32	2
M95-274132	PTTDYbI	4.7	1.0	H	R	4	8
M95-327084	WGBDYBfl	5.0	1.0	R	R	38	0
M95-327228	WGBDYBfl	4.9	1.0	S	H	54	6
OAC 00-41	PGBSYBII	4.9	1.0	S	S	14	2
OAC 00-44	WTBSYbI	4.4	3.0	S	S	2	4
OAC 00-48	WTBDYbI	4.2	2.0	S	S	10	0
ORC 2005	PTBDYBrI	5.0	1.0	H	S	30	16
ORC 2006	PTBIYBrI	4.7	2.0	R	S	24	2
SD97-105	PGBSYBII	4.9	1.0	S	S	36	4
SD98-98	WTBDYBII	5.0	2.0	S	S	14	0
SD98-113	PTBDYBII	4.2	1.0	S	S	4	4
SD98-123	PTBDYBII	4.5	2.0	S	S	6	4
SD98-1632	PTBDYBII	4.7	1.0	R	R	2	4
SD98-3457	PGBDYbI	4.9	1.0	S	S	22	0
U99-003047	P+WGBSYBfl	4.7	2.0	S	S	34	0
U99-008027	PTBDYBII	4.7	1.0	S	S	14	2
U99-013056	P+WGBSYbI	5.0	2.0	S	S	18	4

## PRELIMINARY TEST I, 2001

## REGIONAL SUMMARY

No. of Tests Strain	Yield 5 bu/a	Rank 5 No.	Maturity 5 Date	Lodging 6 Score	Plant Height 6 In.	Seed Size 6 g/100	Seed Quality 3 Score	Composition	
								Protein 4 %	Oil 4 %
Parker (I)	49.9	13	9/19	2.7	38	16.1	2.2	39.5	21.2
IA1008 (SCN)	45.7	40	2.8	1.7	38	16.6	2.3	39.8	20.2
IA2050 (L) (BSR)	48.4	26	5.4	1.8	34	15.2	2.2	40.0	20.2
Lambert (O)	43.3	46	-5.4	1.6	31	14.9	2.0	39.3	22.1
A00-711020	55.2	1	2.2	2.2	33	14.1	2.5	41.2	20.3
A00-711024	50.5	11	3.2	2.4	37	15.2	2.7	38.8	21.2
A00-712003	46.9	33	5.6	2.0	37	15.3	2.5	38.5	20.1
A00-712008	50.3	12	3.4	1.9	35	13.5	2.3	38.9	20.4
A00-712009	53.6	3	2.2	1.9	33	13.8	2.0	37.9	20.9
A00-712012	53.6	3	1.0	1.5	33	15.9	2.2	39.9	20.8
A00-712013	52.3	6	2.8	2.2	34	12.2	2.0	38.5	19.9
A00-712014	51.8	9	1.0	1.6	33	14.4	2.2	38.7	20.5
A00-712023	53.7	2	3.4	1.5	35	15.3	2.2	40.3	20.3
A00-712040	48.9	24	3.6	1.8	32	17.3	2.2	38.7	20.4
A00-712043	53.4	5	1.6	2.0	33	12.2	2.0	37.6	21.1
A00-712047	51.6	10	2.6	1.9	33	13.2	2.2	39.8	20.1
A00-712049	49.6	17	2.4	2.3	34	13.4	2.5	39.4	19.7
A00-811025	39.5	48	6.2	2.1	34	13.6	3.2	40.7	19.2
A00-812020	47.5	30	2.2	2.1	35	13.8	2.5	39.0	19.9
M95-215050	49.0	23	-6.6	2.0	35	15.1	2.2	40.5	20.8
M95-210031	49.9	13	-1.0	1.5	33	15.8	2.0	38.7	22.1
M95-211057	47.9	27	-2.2	1.6	35	14.1	2.0	42.3	20.1
M95-223094	41.5	47	-4.4	1.3	29	17.8	2.0	41.4	20.5
M95-228066	45.3	42	-0.6	1.9	33	14.5	2.0	40.6	20.7
M95-241053	45.7	40	0.2	2.1	32	14.4	1.8	38.1	21.9
M95-265051	47.1	32	-0.2	2.3	36	13.0	1.7	38.2	21.5
M95-265116	49.8	15	-1.8	1.9	35	13.6	1.7	38.7	21.3
M95-265118	52.3	6	-2.8	2.1	35	14.2	2.2	38.4	21.4
M95-265207	49.3	20	2.6	2.1	36	13.8	1.8	39.5	20.9
M95-265222	49.6	17	2.4	2.1	35	15.3	1.7	39.4	20.7
M95-271019	43.9	45	-3.0	1.6	34	18.7	2.0	40.3	20.7
M95-274132	45.2	43	-2.2	1.5	34	15.1	2.2	39.4	20.8
M95-327084	46.5	35	-2.4	2.5	35	15.4	2.3	39.8	20.8
M95-327228	47.7	28	-1.8	2.7	37	16.0	2.2	39.5	21.2
OAC 00-41	46.7	34	0.8	3.0	38	14.6	1.7	38.9	21.2
OAC 00-44	49.5	19	1.2	2.6	37	15.4	2.2	39.1	20.8
OAC 00-48	47.6	29	-3.4	2.1	36	13.6	2.0	39.7	20.5
ORC 2005	51.9	8	3.8	1.8	35	14.2	2.0	39.3	20.7
ORC 2006	48.8	25	3.0	1.8	34	13.8	1.7	39.0	20.4
SD97-105	49.1	21	2.8	2.2	36	13.5	2.0	38.7	20.7
SD98-98	47.4	31	-0.6	1.8	34	15.8	2.2	40.4	20.3
SD98-113	46.4	36	1.0	2.1	35	15.6	2.3	40.9	20.1
SD98-123	45.8	39	-2.0	2.1	37	15.2	1.8	39.9	20.6
SD98-1632	44.7	44	-2.2	1.5	33	14.2	2.0	38.7	21.0
SD98-3457	46.2	37	-1.0	1.6	34	15.3	1.8	39.6	20.6
U99-003047	49.8	15	0.2	1.8	32	14.8	1.7	38.5	21.1
U99-008027	46.1	38	2.2	1.7	34	13.4	2.3	38.5	20.9
U99-013056	49.1	21	1.8	1.8	33	15.1	1.7	40.2	20.0

127.4 Days After Planting



PRELIMINARY TEST I, 2001

YIELD (bu/a)

Strain	Mean 5 Tests	Ames IA	Kanawha IA	Ingham* County MI	Lamberton MN	Waseca MN	Brookings SD
Parker (I)	49.9	50.6	53.2	28.8	44.7	64.8	36.0
IA1008 (SCN)	45.7	46.3	56.4	42.7	39.3	52.7	33.8
IA2050 (L) (BSR)	48.4	46.6	54.1	37.6	45.4	62.7	33.1
Lambert (O)	43.3	45.6	44.8	4.6	35.9	54.5	35.9
A00-711020	55.2	55.9	60.4	20.0	49.5	79.3	30.7
A00-711024	50.5	58.1	58.4	29.2	42.9	62.9	30.4
A00-712003	46.9	58.2	50.8	28.5	43.3	52.0	30.1
A00-712008	50.3	63.1	56.5	10.2	42.0	55.2	34.9
A00-712009	53.6	63.1	59.5	14.6	52.0	65.2	28.2
A00-712012	53.6	53.0	56.5	35.8	54.4	71.3	32.8
A00-712013	52.3	61.1	59.3	26.1	53.7	57.2	30.3
A00-712014	51.8	50.1	58.1	35.1	46.5	70.5	33.8
A00-712023	53.7	62.6	58.7	48.0	53.6	62.3	31.4
A00-712040	48.9	52.6	60.0	22.8	48.4	51.1	32.5
A00-712043	53.4	60.5	60.5	20.5	50.2	63.4	32.7
A00-712047	51.6	60.6	58.5	32.8	46.9	59.4	32.9
A00-712049	49.6	57.0	54.6	49.9	50.0	55.2	31.4
A00-811025	39.5	52.8	47.8	19.4	36.7	33.7	26.5
A00-812020	47.5	58.5	53.1	24.7	46.2	53.7	26.2
M95-215050	49.0	50.3	54.7	30.7	43.2	60.6	36.1
M95-210031	49.9	50.4	52.3	36.3	42.6	61.9	42.1
M95-211057	47.9	52.8	45.9	21.0	39.4	59.5	42.1
M95-223094	41.5	38.7	42.8	7.2	37.6	49.8	38.4
M95-228066	45.3	45.4	49.2	25.2	40.2	57.1	34.8
M95-241053	45.7	48.6	42.9	13.3	45.5	56.5	35.0
M95-265051	47.1	48.8	54.1	32.1	42.5	60.9	29.0
M95-265116	49.8	47.1	54.6	10.8	45.8	62.0	39.6
M95-265118	52.3	53.4	49.6	8.7	45.0	75.5	38.3
M95-265207	49.3	56.4	56.7	27.9	43.0	55.6	34.7
M95-265222	49.6	51.6	56.7	29.6	46.4	61.7	31.7
M95-271019	43.9	44.5	47.1	14.4	41.6	52.6	33.7
M95-274132	45.2	51.9	51.5	13.4	43.5	47.9	31.1
M95-327084	46.5	57.6	48.2	25.5	39.4	56.2	31.3
M95-327228	47.7	54.6	54.0	29.8	39.7	55.6	34.7
OAC 00-41	46.7	52.4	53.2	27.5	42.4	53.5	32.2
OAC 00-44	49.5	44.6	49.6	14.7	44.2	79.0	29.9
OAC 00-48	47.6	53.6	51.4	18.2	39.6	58.6	34.8
ORC 2005	51.9	60.6	57.3	38.6	53.0	58.8	29.7
ORC 2006	48.8	56.2	57.4	39.0	43.5	55.7	31.2
SD97-105	49.1	55.2	57.6	16.2	42.4	48.3	42.0
SD98-98	47.4	45.6	52.4	26.8	45.2	58.7	34.9
SD98-113	46.4	51.9	53.3	34.0	45.4	51.6	30.0
SD98-123	45.8	49.3	55.0	27.2	40.1	51.9	32.6
SD98-1632	44.7	48.5	49.0	13.8	40.7	49.0	36.3
SD98-3457	46.2	50.9	51.3	33.3	43.0	55.6	30.2
U99-003047	49.8	48.0	57.9	19.0	43.0	66.7	33.6
U99-008027	46.1	52.6	51.9	29.7	42.2	54.7	29.0
U99-013056	49.1	55.7	57.2	12.0	44.8	55.0	32.6
C.V. (%)		9.0	7.7	17.8	8.7	8.1	8.4
L.S.D. (5%)		9.4	8.3	11.2	7.8	9.6	5.7
Row Sp. (In.)		27	27	15	10	10	30
Rows/Plot		4	4	6	4	4	4
Reps		2	2	2	2	2	2

\* Data not included in mean.

## PRELIMINARY TEST I, 2001

## YIELD RANK

Strain	Yield Rank	Ames IA	Kanawha IA	Ingham County MI	Lamberton MN	Waseca MN	Brookings SD
Parker (I)	13.0	31.0	28.0	19.0	21.0	8.0	9.0
IA1008 (SCN)	40	42	19	3	45	38	18
IA2050 (L) (BSR)	26	41	24	6	16	11	22
Lambert (O)	46	43	46	48	48	35	10
A00-711020	1	15	2	32	8	1	36
A00-711024	11	10	8	18	30	10	37
A00-712003	33	9	37	20	25	40	40
A00-712008	12	1	17	45	36	31	12
A00-712009	3	1	4	38	5	7	46
A00-712012	3	21	17	8	1	4	24
A00-712013	6	4	5	25	2	23	38
A00-712014	9	34	9	9	11	5	18
A00-712023	2	3	6	2	3	12	31
A00-712040	24	24	3	29	9	43	28
A00-712043	5	7	1	31	6	9	25
A00-712047	10	5	7	12	10	19	23
A00-712049	17	12	22	1	7	31	31
A00-811025	48	22	43	33	47	48	47
A00-812020	30	8	30	28	13	36	48
M95-215050	23	33	21	14	26	17	8
M95-210031	13	32	32	7	31	14	1
M95-211057	27	22	45	30	43	18	1
M95-223094	47	48	48	47	46	44	5
M95-228066	42	45	40	27	39	24	14
M95-241053	40	37	47	42	15	25	11
M95-265051	32	36	24	13	32	16	44
M95-265116	15	40	22	44	14	13	4
M95-265118	6	20	38	46	19	3	6
M95-265207	20	13	15	21	27	28	16
M95-265222	17	29	15	17	12	15	30
M95-271019	45	47	44	39	37	39	20
M95-274132	43	27	34	41	23	47	35
M95-327084	35	11	42	26	43	26	33
M95-327228	28	18	26	15	41	28	16
OAC 00-41	34	26	28	22	33	37	29
OAC 00-44	19	46	38	37	22	2	42
OAC 00-48	29	19	35	35	42	22	14
ORC 2005	8	5	13	5	4	20	43
ORC 2006	25	14	12	4	23	27	34
SD97-105	21	17	11	36	33	46	3
SD98-98	31	43	31	24	18	21	12
SD98-113	36	27	27	10	16	42	41
SD98-123	39	35	20	23	40	41	26
SD98-1632	44	38	41	40	38	45	7
SD98-3457	37	30	36	11	27	28	39
U99-003047	15	39	10	34	27	6	21
U99-008027	38	24	33	16	35	34	45
U99-013056	21	16	14	43	20	33	26

## PRELIMINARY TEST I, 2001

## MATURITY (date)

Strain	Mean 5 Tests	Ames IA	Kanawha IA	Ingham County MI	Lamberton MN	Waseca MN	Brookings SD
Parker (I)	9/19	9/8		9/10	9/29	10/1	9/21
IA1008 (SCN)	2.8	7		3	1	1	2
IA2050 (L) (BSR)	5.4	9		7	7	4	II
Lambert (O)	-5.4	-4		-3	-4	-5	-11
A00-711020	2.2	5		-1	2	1	4
A00-711024	3.2	9		0	3	4	II
A00-712003	5.6	11		3	8	6	II
A00-712008	3.4	6		0	2	5	4
A00-712009	2.2	5		0	0	3	3
A00-712012	1.0	3		-2	1	1	2
A00-712013	2.8	6		0	1	2	5
A00-712014	1.0	2		-1	0	2	2
A00-712023	3.4	6		3	2	2	4
A00-712040	3.6	5		3	3	3	4
A00-712043	1.6	3		-2	2	1	4
A00-712047	2.6	7		2	2	2	II
A00-712049	2.4	8		2	3	4	-5
A00-811025	6.2	15		3	7	6	II
A00-812020	2.2	8		0	4	-1	II
M95-215050	-6.6	-5		-2	-6	-5	-15
M95-210031	-1.0	-3		3	-2	-1	-2
M95-211057	-2.2	-4		1	-2	-3	-3
M95-223094	-4.4	-5		-3	-6	-4	-4
M95-228066	-0.6	0		-1	-1	1	-2
M95-241053	0.2	2		-1	-1	1	0
M95-265051	-0.2	0		1	-2	0	0
M95-265116	-1.8	-3		-3	-3	0	0
M95-265118	-2.8	-1		0	-2	0	-11
M95-265207	2.6	4		3	0	3	3
M95-265222	2.4	8		1	-1	1	3
M95-271019	-3.0	-4		0	-5	-4	-2
M95-274132	-2.2	-1		-1	0	-2	-7
M95-327084	-2.4	0		0	-2	-1	-9
M95-327228	-1.8	-3		-1	-2	-1	-2
OAC 00-41	0.8	2		0	-1	2	1
OAC 00-44	1.2	2		2	-2	0	4
OAC 00-48	-3.4	-3		-2	-1	0	-11
ORC 2005	3.8	9		3	4	3	II
ORC 2006	3.0	5		1	3	2	4
SD97-105	2.8	9		1	1	3	0
SD98-98	-0.6	-2		-1	-2	-1	3
SD98-113	1.0	1		0	0	1	3
SD98-123	-2.0	-3		0	-3	-3	-1
SD98-1632	-2.2	-3		-2	-2	-4	0
SD98-3457	-1.0	0		-1	-2	-1	-1
U99-003047	0.2	1		2	-2	-1	1
U99-008027	2.2	3		0	2	1	5
U99-013056	1.8	5		-1	2	1	2
Date Planted	5/15	5/10		5/8	5/15	5/29	5/15
Days to Mature	127	121		125	137	125	129

## PRELIMINARY TEST I, 2001

## LODGING (score)

Strain	Mean 6 Tests	Ames IA	Kanawha IA	Ingham County MI	Lamberton MN	Waseca MN	Brookings SD
Parker (I)	2.7	2.3	1.8	1.5	3.0	3.5	4.0
IA1008 (SCN)	1.7	2.8	1.5	1.0	2.0	2.0	1.0
IA2050 (L) (BSR)	1.8	2.0	1.5	1.0	2.0	2.0	2.0
Lambert (O)	1.6	2.0	1.3	1.0	2.0	1.5	2.0
A00-711020	2.2	2.5	2.0	1.0	2.5	3.0	2.0
A00-711024	2.4	3.0	2.3	1.5	3.0	2.5	2.0
A00-712003	2.0	2.0	2.0	1.0	2.0	3.0	2.0
A00-712008	1.9	2.3	2.0	1.0	2.5	2.5	1.0
A00-712009	1.9	1.8	1.3	1.0	2.5	2.5	2.0
A00-712012	1.5	1.5	1.3	1.0	2.0	2.0	1.0
A00-712013	2.2	2.0	2.5	1.0	3.0	2.5	2.0
A00-712014	1.6	1.8	1.5	1.0	2.5	1.5	1.0
A00-712023	1.5	1.8	1.3	1.0	2.0	2.0	1.0
A00-712040	1.8	1.5	1.5	1.0	2.0	2.5	2.0
A00-712043	2.0	1.5	2.0	1.0	3.0	2.5	2.0
A00-712047	1.9	2.5	1.5	1.0	2.0	2.5	2.0
A00-712049	2.3	2.0	2.0	1.0	3.0	3.5	2.0
A00-811025	2.1	2.3	2.0	1.0	2.5	3.0	2.0
A00-812020	2.1	2.0	2.3	1.0	3.0	3.0	1.0
M95-215050	2.0	2.8	1.5	1.0	2.0	2.5	2.0
M95-210031	1.5	1.3	1.0	1.0	2.0	1.5	2.0
M95-211057	1.6	1.8	1.3	1.0	2.0	1.5	2.0
M95-223094	1.3	1.0	1.0	1.0	1.5	1.0	2.0
M95-228066	1.9	3.0	1.3	1.0	2.5	1.5	2.0
M95-241053	2.1	2.3	2.3	1.5	2.5	2.0	2.0
M95-265051	2.3	2.8	2.0	1.5	2.5	3.0	2.0
M95-265116	1.9	2.0	1.8	1.0	2.5	2.0	2.0
M95-265118	2.1	2.5	1.8	1.0	2.5	2.5	2.0
M95-265207	2.1	2.3	1.5	1.0	3.0	2.5	2.0
M95-265222	2.1	2.8	1.5	1.0	3.0	2.0	2.0
M95-271019	1.6	1.3	1.5	1.0	2.0	1.5	2.0
M95-274132	1.5	1.5	1.0	1.0	2.0	2.5	1.0
M95-327084	2.5	3.5	2.0	1.5	3.0	3.0	2.0
M95-327228	2.7	3.0	2.8	1.5	3.5	2.5	3.0
OAC 00-41	3.0	3.8	2.5	1.5	3.5	2.5	4.0
OAC 00-44	2.6	4.0	1.8	1.5	3.0	2.5	3.0
OAC 00-48	2.1	1.8	2.0	1.0	2.0	2.5	3.0
ORC 2005	1.8	2.0	1.5	1.0	2.0	2.5	2.0
ORC 2006	1.8	2.5	1.5	1.0	2.5	2.5	1.0
SD97-105	2.2	2.5	2.0	1.0	3.0	2.5	2.0
SD98-98	1.8	2.0	1.3	1.0	2.0	2.5	2.0
SD98-113	2.1	2.5	1.8	1.0	2.5	3.0	2.0
SD98-123	2.1	2.3	2.0	1.5	2.5	2.0	2.0
SD98-1632	1.5	1.8	1.0	1.0	2.0	2.0	1.0
SD98-3457	1.6	1.3	1.5	1.0	2.0	2.5	1.0
U99-003047	1.8	2.5	1.0	1.0	2.5	2.0	2.0
U99-008027	1.7	2.0	1.3	1.0	2.0	2.0	2.0
U99-013056	1.8	2.3	1.5	1.0	2.5	1.5	2.0

PRELIMINARY TEST I, 2001

PLANT HEIGHT (inches)

Strain	Mean 6 Tests	Ames IA	Kanawha IA	Ingham County MI	Lamberton MN	Waseca MN	Brookings SD
Parker (I)	38	37	40	29	41	41	42
IA1008 (SCN)	38	40	41	30	43	42	35
IA2050 (L) (BSR)	34	32	39	26	37	36	33
Lambert (O)	31	31	32	20	33	36	32
A00-711020	33	33	36	24	36	39	31
A00-711024	37	41	38	25	40	38	38
A00-712003	37	35	41	30	40	42	33
A00-712008	35	36	38	23	38	41	35
A00-712009	33	33	36	23	38	39	31
A00-712012	33	32	36	26	36	38	28
A00-712013	34	34	36	26	37	40	32
A00-712014	33	32	36	26	33	39	30
A00-712023	35	35	35	29	37	40	31
A00-712040	32	31	37	23	34	36	28
A00-712043	33	29	37	26	38	37	33
A00-712047	33	35	35	24	33	38	31
A00-712049	34	32	37	29	37	39	32
A00-811025	34	39	41	23	37	37	28
A00-812020	35	35	41	22	39	39	32
M95-215050	35	38	36	27	36	37	34
M95-210031	33	32	37	25	34	38	35
M95-211057	35	33	36	25	37	40	40
M95-223094	29	26	29	20	34	30	37
M95-228066	33	31	35	25	34	36	35
M95-241053	32	32	33	21	36	38	32
M95-265051	36	36	37	26	37	41	37
M95-265116	35	39	36	23	38	39	37
M95-265118	35	39	37	20	39	36	38
M95-265207	36	41	42	27	34	42	33
M95-265222	35	39	39	25	40	37	30
M95-271019	34	33	35	23	37	37	37
M95-274132	34	35	37	23	34	38	34
M95-327084	35	40	35	27	38	38	33
M95-327228	37	40	37	27	40	39	38
OAC 00-41	38	41	36	28	46	42	37
OAC 00-44	37	41	38	22	43	43	36
OAC 00-48	36	34	37	24	41	40	40
ORC 2005	35	33	36	28	38	41	32
ORC 2006	34	35	37	29	34	41	30
SD97-105	36	38	43	22	37	41	37
SD98-98	34	34	37	27	36	39	33
SD98-113	35	36	37	28	34	40	33
SD98-123	37	38	38	28	38	40	37
SD98-1632	33	32	37	25	37	37	32
SD98-3457	34	33	38	28	38	37	31
U99-003047	32	32	34	24	35	39	30
U99-008027	34	31	37	26	36	37	34
U99-013056	33	33	37	21	36	36	34

PRELIMINARY TEST I, 2001

SEED SIZE (g/100)

Strain	Mean 6 Tests	Ames IA	Kanawha IA	Ingham County MI	Lamberton MN	Waseca MN	Brookings SD
Parker (I)	16.1	16.7	15.3	15.6	16.7	18.5	14.0
IA1008 (SCN)	16.6	18.1	16.0	17.2	15.8	17.9	14.3
IA2050 (L) (BSR)	15.2	14.8	14.6	16.8	14.6	17.5	13.1
Lambert (O)	14.9	15.8	14.6	14.5	13.8	17.1	13.3
A00-711020	14.1	14.0	13.6	15.2	13.8	15.9	12.1
A00-711024	15.2	15.0	14.4	15.6	17.2	16.9	12.2
A00-712003	15.3	14.8	14.4	17.0	14.2	18.0	13.1
A00-712008	13.5	13.8	13.0	15.1	12.5	15.0	11.7
A00-712009	13.8	13.2	13.5	15.1	13.9	16.0	11.3
A00-712012	15.9	16.2	16.1	15.0	16.8	18.7	12.3
A00-712013	12.2	12.7	11.8	13.0	11.5	13.7	10.3
A00-712014	14.4	14.6	13.6	16.0	13.9	15.9	12.6
A00-712023	15.3	15.5	14.9	16.8	15.2	17.5	11.8
A00-712040	17.3	17.6	17.9	17.0	17.1	19.8	14.4
A00-712043	12.2	11.9	11.7	13.4	12.3	13.8	10.3
A00-712047	13.2	13.2	12.7	14.4	13.1	14.8	11.0
A00-712049	13.4	13.2	13.3	15.1	12.8	15.6	10.5
A00-811025	13.6	12.7	12.5	14.9	12.8	16.1	12.6
A00-812020	13.8	13.3	13.0	16.5	13.0	15.3	11.8
M95-215050	15.1	16.0	15.3	16.3	14.0	16.4	12.4
M95-210031	15.8	16.5	14.8	17.1	15.0	17.8	13.3
M95-211057	14.1	14.5	13.8	13.1	14.2	16.6	12.4
M95-223094	17.8	20.1	18.7	15.0	17.6	20.8	14.8
M95-228066	14.5	15.0	14.3	14.4	13.2	17.4	12.5
M95-241053	14.4	14.0	13.0	15.2	14.2	17.6	12.2
M95-265051	13.0	12.8	12.3	14.4	12.1	15.4	11.2
M95-265116	13.6	14.1	13.3	13.6	12.9	16.1	11.6
M95-265118	14.2	15.1	13.7	14.4	13.7	16.6	11.8
M95-265207	13.8	14.6	13.5	13.0	14.2	15.3	12.4
M95-265222	15.3	15.6	14.8	16.7	14.5	17.7	12.6
M95-271019	18.7	21.5	18.4	18.1	17.7	21.1	15.5
M95-274132	15.1	15.4	14.4	15.5	14.6	16.7	14.0
M95-327084	15.4	15.8	14.6	15.7	15.6	17.8	12.6
M95-327228	16.0	17.1	14.8	16.1	16.3	18.7	13.1
OAC 00-41	14.6	14.6	13.6	15.8	14.7	16.9	11.8
OAC 00-44	15.4	15.1	13.9	17.4	15.2	17.7	12.8
OAC 00-48	13.6	14.1	13.1	12.8	13.5	16.5	11.6
ORC 2005	14.2	14.9	13.9	15.8	14.8	14.4	11.3
ORC 2006	13.8	14.0	13.4	15.0	12.7	15.5	12.1
SD97-105	13.5	13.2	13.0	14.6	14.6	14.2	11.6
SD98-98	15.8	15.9	15.6	16.6	14.5	18.7	13.7
SD98-113	15.6	15.4	14.6	15.7	16.0	18.3	13.6
SD98-123	15.2	15.5	14.9	16.6	14.4	17.4	12.2
SD98-1632	14.2	14.4	13.6	14.4	14.1	16.2	12.5
SD98-3457	15.3	14.9	13.9	18.0	14.2	16.8	13.8
U99-003047	14.8	14.9	14.7	14.7	14.3	16.7	13.3
U99-008027	13.4	12.8	12.7	15.3	12.8	15.1	11.7
U99-013056	15.1	15.3	15.2	15.8	15.3	16.4	12.5

PRELIMINARY TEST I, 2001

SEED QUALITY (score)

Strain	Mean 3 Tests	Ames IA	Kanawha IA	Ingham County MI	Lamberton MN	Waseca MN	Brookings SD
Parker (I)	2.2				2.5	2.0	2.0
IA1008 (SCN)	2.3				2.5	1.5	3.0
IA2050 (L) (BSR)	2.2				2.5	2.0	2.0
Lambert (O)	2.0				2.0	2.0	2.0
A00-711020	2.5				2.5	2.0	3.0
A00-711024	2.7				2.5	2.5	3.0
A00-712003	2.5				2.5	3.0	2.0
A00-712008	2.3				2.5	2.5	2.0
A00-712009	2.0				2.0	2.0	2.0
A00-712012	2.2				3.0	1.5	2.0
A00-712013	2.0				2.0	2.0	2.0
A00-712014	2.2				2.5	2.0	2.0
A00-712023	2.2				1.5	2.0	3.0
A00-712040	2.2				2.5	2.0	2.0
A00-712043	2.0				2.0	2.0	2.0
A00-712047	2.2				1.5	2.0	3.0
A00-712049	2.5				2.5	2.0	3.0
A00-811025	3.2				3.0	3.5	3.0
A00-812020	2.5				3.0	2.5	2.0
M95-215050	2.2				1.5	2.0	3.0
M95-210031	2.0				2.5	1.5	2.0
M95-211057	2.0				1.5	1.5	3.0
M95-223094	2.0				1.5	1.5	3.0
M95-228066	2.0				2.0	1.0	3.0
M95-241053	1.8				2.0	1.5	2.0
M95-265051	1.7				1.5	1.5	2.0
M95-265116	1.7				1.5	1.5	2.0
M95-265118	2.2				1.5	2.0	3.0
M95-265207	1.8				1.5	2.0	2.0
M95-265222	1.7				1.5	1.5	2.0
M95-271019	2.0				1.5	1.5	3.0
M95-274132	2.2				1.5	2.0	3.0
M95-327084	2.3				2.0	2.0	3.0
M95-327228	2.2				1.5	2.0	3.0
OAC 00-41	1.7				1.5	1.5	2.0
OAC 00-44	2.2				1.5	2.0	3.0
OAC 00-48	2.0				1.5	1.5	3.0
ORC 2005	2.0				2.0	2.0	2.0
ORC 2006	1.7				1.5	1.5	2.0
SD97-105	2.0				2.0	2.0	2.0
SD98-98	2.2				2.0	1.5	3.0
SD98-113	2.3				2.5	1.5	3.0
SD98-123	1.8				2.0	1.5	2.0
SD98-1632	2.0				2.5	1.5	2.0
SD98-3457	1.8				1.5	1.0	3.0
U99-003047	1.7				2.0	1.0	2.0
U99-008027	2.3				2.0	2.0	3.0
U99-013056	1.7				1.5	1.5	2.0

PRELIMINARY TEST I, 2001

PROTEIN (%)

Strain	Mean 4 Tests	Ames IA	Kanawha IA	Lamberton MN	Waseca MN
Parker (I)	39.5	41.1	39.3	38.7	39.1
IA1008 (SCN)	39.8	42.5	39.7	38.4	38.6
IA2050 (L) (BSR)	40.0	41.5	40.6	38.4	39.6
Lambert (0)	39.3	40.7	39.8	37.7	39.1
A00-711020	41.2	42.9	41.2	40.3	40.4
A00-711024	38.8	40.9	39.8	37.8	36.9
A00-712003	38.5	40.7	38.8	37.0	37.5
A00-712008	38.9	41.3	39.7	36.0	38.5
A00-712009	37.9	39.2	37.7	35.8	39.1
A00-712012	39.9	41.3	40.5	39.6	38.1
A00-712013	38.5	39.8	38.9	37.3	38.0
A00-712014	38.7	40.4	38.2	38.7	37.5
A00-712023	40.3	41.6	41.2	38.6	39.8
A00-712040	38.7	40.7	39.3	37.4	37.4
A00-712043	37.6	37.8	37.8	36.7	38.0
A00-712047	39.8	40.8	39.7	39.0	39.6
A00-712049	39.4	40.5	39.4	38.2	39.8
A00-811025	40.7	42.0	41.3	39.6	39.8
A00-812020	39.0	39.9	39.7	36.9	39.4
M95-215050	40.5	41.9	41.0	40.1	39.2
M95-210031	38.7	39.6	39.2	37.1	38.9
M95-211057	42.3	44.4	41.5	41.3	41.8
M95-223094	41.4	43.4	41.0	40.4	40.8
M95-228066	40.6	40.9	42.7	38.8	40.0
M95-241053	38.1	39.7	38.7	36.5	37.4
M95-265051	38.2	40.6	35.8	37.9	38.4
M95-265116	38.7	39.9	39.0	38.0	37.8
M95-265118	38.4	38.7	38.9	37.6	38.6
M95-265207	39.5	40.3	40.3	38.4	39.1
M95-265222	39.4	39.9	40.4	38.8	38.5
M95-271019	40.3	43.4	40.1	38.2	39.5
M95-274132	39.4	41.6	40.2	38.1	37.5
M95-327084	39.8	41.2	40.2	38.4	39.2
M95-327228	39.5	39.3	39.8	39.8	39.2
OAC 00-41	38.9	40.9	38.5	38.5	37.8
OAC 00-44	39.1	39.8	38.9	38.5	39.2
OAC 00-48	39.7	40.6	39.6	38.9	39.9
ORC 2005	39.3	40.8	39.9	37.2	39.5
ORC 2006	39.0	39.9	40.3	37.3	38.5
SD97-105	38.7	40.5	38.7	37.1	38.5
SD98-98	40.4	42.1	40.2	40.2	39.3
SD98-113	40.9	41.5	41.5	40.7	40.0
SD98-123	39.9	41.0	40.8	40.1	37.6
SD98-1632	38.7	39.7	39.0	38.5	37.6
SD98-3457	39.6	41.0	38.7	39.8	38.9
U99-003047	38.5	39.7	39.3	38.3	36.8
U99-008027	38.5	40.1	38.4	37.2	38.4
U99-013056	40.2	41.8	41.2	38.6	39.1



## PRELIMINARY TEST I, 2001

## OIL (%)

Strain	Mean 4 Tests	Ames IA	Kanawha IA	Lamberton MN	Waseca MN
Parker (I)	21.2	21.4	22.0	21.1	20.4
IA1008 (SCN)	20.2	20.1	20.6	20.1	20.0
IA2050 (L) (BSR)	20.2	20.3	20.3	20.3	19.8
Lambert (O)	22.1	22.4	22.7	22.1	21.3
A00-711020	20.3	20.5	20.6	20.0	20.0
A00-711024	21.2	21.4	21.3	21.0	21.1
A00-712003	20.1	20.1	20.4	20.0	19.7
A00-712008	20.4	20.9	20.5	21.1	19.2
A00-712009	20.9	21.7	21.7	21.0	19.1
A00-712012	20.8	21.4	20.9	20.5	20.3
A00-712013	19.9	20.2	20.5	19.8	19.1
A00-712014	20.5	20.8	21.1	20.0	20.3
A00-712023	20.3	20.6	20.5	20.4	19.9
A00-712040	20.4	20.9	20.5	20.3	19.9
A00-712043	21.1	22.2	21.4	20.6	20.1
A00-712047	20.1	20.5	20.3	20.2	19.2
A00-712049	19.7	20.4	20.0	19.6	18.6
A00-811025	19.2	19.4	18.8	19.6	18.9
A00-812020	19.9	20.6	20.3	19.9	18.7
M95-215050	20.8	21.1	21.0	20.3	20.9
M95-210031	22.1	22.5	22.5	22.2	21.4
M95-211057	20.1	19.9	21.0	19.6	19.9
M95-223094	20.5	20.8	19.8	20.6	20.7
M95-228066	20.7	21.5	20.8	20.6	20.1
M95-241053	21.9	21.9	22.1	22.3	21.1
M95-265051	21.5	21.1	23.4	20.9	20.7
M95-265116	21.3	21.6	21.3	21.0	21.3
M95-265118	21.4	22.2	21.3	21.1	20.8
M95-265207	20.9	21.3	20.9	20.9	20.3
M95-265222	20.7	21.8	20.2	20.3	20.5
M95-271019	20.7	20.4	20.8	21.0	20.8
M95-274132	20.8	20.7	21.1	20.5	21.1
M95-327084	20.8	21.1	20.6	20.9	20.8
M95-327228	21.2	22.4	21.0	20.5	20.8
OAC 00-41	21.2	21.0	21.8	20.8	21.0
OAC 00-44	20.8	20.7	21.6	20.3	20.4
OAC 00-48	20.5	21.3	20.3	20.0	20.2
ORC 2005	20.7	21.3	20.6	21.0	19.9
ORC 2006	20.4	21.0	20.4	20.5	19.5
SD97-105	20.7	21.1	21.1	20.5	20.1
SD98-98	20.3	20.5	20.4	19.6	20.8
SD98-113	20.1	20.5	20.0	20.0	19.9
SD98-123	20.6	20.6	19.8	20.7	21.3
SD98-1632	21.0	21.5	21.0	20.6	20.8
SD98-3457	20.6	20.5	21.2	20.2	20.2
U99-003047	21.1	21.7	21.0	20.8	21.1
U99-008027	20.9	21.4	21.0	20.7	20.4
U99-013056	20.0	20.0	20.0	20.1	19.8

**Uniform Test II, 2001**

	<b>Strain</b>	<b>Parentage</b>	<b>Previous Testing</b>	<b>Generation Composited</b>	<b>Unique Traits</b>
1.	IA2021 (II)	Elgin 87 x Marcus	7	F5	
2.	IA2050 (I)	Northrup King S24-90 x A91-501002	1	F5	BSR
3.	IA2052 (L)	Northrup King S24-92 x Parker	3	F5	
4.	E98076	Dairyland DSR-217 x Northrup King S19-90	PTIIB	F5	
5.	SD96-170	IA2008 x HS88-4909	2	F5	
6.	SD97-230	Vinton x SL89-3343	PTIIB	F5	
7.	SD97-456	Marcus x SL91-1252N	PTIIB	F5	
8.	SD97-460	Marcus x SL91-1252N	PTIIB	F5	

**UNIFORM TEST II, 2001**  
**DESCRIPTIVE AND DISEASE DATA**

Strain	Descriptive Code	<u>Stand</u> Score Arlington	<u>Chlorosis Score</u> Yellow Medicine Co.	<u>BSR</u> Score Arlington	<u>Shattering</u> Score Manhattan
IA2021 (II)	WTBDYBII	10.0	4.9	1.0	2.0
IA2050 (I)	PTBDYBII	8.0	4.9	0.0	3.0
IA2052 (L)	WGBIYBfi	6.0	4.9	0.3	2.0
E98076	PTTDYBII	10.0	4.9	0.7	1.0
SD96-170	PGTIYBfi	10.0	5.0	0.0	2.0
SD97-230	PTTDYBrI	10.0	4.9	0.3	2.0
SD97-456	WTTDYBfi	8.0	5.0	0.0	2.0
SD97-460	WTTDYBII	8.0	4.9	2.7	1.0

**UNIFORM TEST II, 2001**

**DISEASE DATA**

Strain	<u>SDS</u> Data DX Score	<u>PR</u> Lafayette		<u>PS</u> a %	<u>P&amp;SB</u> Lafayette n %
		Race 4	Race 7		
IA2021 (II)	0.1	R	R	26	8
IA2050 (I)	0.1	S	R	14	14
IA2052 (L)	3.6	S	S	70	14
E98076	3.3	S	R	12	16
SD96-170	1.4	H	R	6	8
SD97-230	0.0	S	R	30	8
SD97-456	0.1	S	R	38	8
SD97-460	0.0	S	R	50	0

**UNIFORM TEST II, 2001**

**REGIONAL SUMMARY**

No. of Tests Strain	Yield 18 bu/a	Rank 18 No.	Maturity 17 Date	Lodging 18 Score	Plant Height 17 In.	Seed Size 17 g/100	Seed Quality 11 Score	Green Stem 7 Score	Composition	
									Protein 4 %	Oil 4 %
IA2021 (II)	51.6	4	9/19	1.6	33	15.7	1.8	1.9	37.0	22.8
IA2050 (I)	51.4	5	2.5	1.4	34	15.7	1.9	1.9	40.0	21.0
IA2052 (L)	52.1	3	5.3	1.9	38	14.2	1.8	2.3	39.8	21.0
E98076	54.0	1	4.0	1.4	37	14.9	1.7	2.6	37.0	21.7
SD96-170	52.9	2	4.8	1.9	36	16.4	2.0	2.0	38.7	21.5
SD97-230	49.9	7	4.4	1.9	33	16.3	2.2	2.2	40.5	20.2
SD97-456	51.2	6	4.1	1.8	34	12.7	2.0	2.0	38.9	21.1
SD97-460	46.9	8	-2.9	1.5	33	14.4	1.7	2.1	39.0	21.5

124.6 Days After Planting

**UNIFORM TEST II, 2001**

**2000-2001 2-YEAR MEAN**

No. of Tests Strain	Yield 38 bu/a	Rank 38 No.	Maturity 36 Date	Lodging 38 Score	Plant Height 36 In.	Seed Size 37 g/100	Composition	
							Protein 9 %	Oil 9 %
IA2021 (II)	52.3	2	9/17	1.7	31	15.7	38.6	21.7
IA2050 (I)	52.1	4	0.8	1.4	32	15.6	40.7	20.3
IA2052 (L)	53.4	1	3.8	1.8	36	14.1	41.0	20.3
SD96-170	52.3	2	4.3	2.0	35	16.5	40.2	20.4

125.1 Days After Planting

**1999-2001 3-YEAR MEAN**

No. of Tests Strain	60	60	54	59	57	58	14	14
IA2021 (II)	52.7	3	9/17	1.7	30	15.8	38.8	21.5
IA2052 (L)	55.1	1	3.6	1.8	36	14.3	41.0	20.4
SD96-170	52.9	2	4.2	1.9	35	16.6	39.9	20.4

124.5 Days After Planting

**UNIFORM TEST II, 2001**

**YIELD (bu/a)**

Strain	Mean 18 Tests	Ames IA	Ripsey IA	Dekalb IL	Dwight IL	Urbana IL
IA2021 (II)	51.6	55.8	53.9	45.6	45.4	34.8
IA2050 (I)	51.4	59.4	46.3	45.0	53.2	33.5
IA2052 (L)	52.1	58.2	41.2	44.5	49.4	44.2
E98076	54.0	58.0	52.8	43.9	47.7	42.8
SD96-170	52.9	58.5	51.1	43.6	44.7	36.5
SD97-230	49.9	51.0	47.5	43.1	49.8	42.1
SD97-456	51.2	51.3	50.6	40.4	47.3	36.8
SD97-460	46.9	52.5	46.6	39.4	46.3	31.2
C.V. (%)		6.7	8.6	11.0	8.5	6.8
L.S.D. (5%)		8.8	9.9	8.3	7.1	4.5
Row Sp. (In.)		27	27	30	30	30
Rows/Plot		4	4	4	4	4
Reps		2	2	3	3	3

**UNIFORM TEST II, 2001**

**YIELD RANK**

Strain	Yield Rank	Ames IA	Ripsey IA	Dekalb IL	Dwight IL	Urbana IL
IA2021 (II)	4	5	1	1	7	6
IA2050 (I)	5	1	7	2	1	7
IA2052 (L)	3	3	8	3	3	1
E98076	1	4	2	4	4	2
SD96-170	2	2	3	5	8	5
SD97-230	7	8	5	6	2	3
SD97-456	6	7	4	7	5	4
SD97-460	8	6	6	8	6	8

**UNIFORM TEST II, 2001**

**YIELD (bu/a)**

Strain	Lafayette IN	Wanatah IN	Ingham County MI	Lanawee County MI	Lamberton MN	Waseca MN
IA2021 (II)	38.7	59.1	46.9	38.0	55.5	59.1
IA2050 (I)	37.1	58.0	45.5	28.0	46.7	59.1
IA2052 (L)	44.1	62.8	52.2	33.9	44.4	41.6
E98076	53.4	65.3	49.1	41.9	50.3	47.9
SD96-170	49.9	66.1	46.9	39.5	49.1	38.7
SD97-230	44.1	58.9	49.7	37.6	50.4	42.1
SD97-456	44.9	53.7	50.2	36.4	51.7	46.7
SD97-460	32.9	45.9	46.5	38.4	48.7	57.5
C.V. (%)	14.8	6.1	5.8	10.7	9.4	12.7
L.S.D. (5%)	11.0	6.2	6.6	9.3	8.1	11.1
Row Sp. (In.)	24	26	15	15	10	10
Rows/Plot	4	4	6	6	10	10
Reps	3	3	2	2	3	3

**UNIFORM TEST II, 2001**

**YIELD RANK**

Strain	Lafayette IN	Wanatah IN	Ingham County MI	Lanawee County MI	Lamberton MN	Waseca MN
IA2021 (II)	6	4	6	4	1	1
IA2050 (I)	7	6	8	8	7	1
IA2052 (L)	5	3	1	7	8	7
E98076	1	2	4	1	4	4
SD96-170	2	1	5	2	5	8
SD97-230	4	5	3	5	3	6
SD97-456	3	7	2	6	2	5
SD97-460	8	8	7	3	6	3

**UNIFORM TEST II, 2001**

**YIELD (bu/a)**

Strain	Beemer NE	Cotesfield NE	Goehner NE	Harrow Ont.	Ridgetown Ont.	Beresford SD	Arlington WI
IA2021 (II)	46.3	78.6	62.6	41.3	53.0	50.6	62.8
IA2050 (I)	44.1	83.9	77.6	39.2	56.2	55.1	57.7
IA2052 (L)	50.9	81.0	78.4	39.9	54.3	49.9	67.3
E98076	49.6	80.6	72.8	35.4	53.8	53.2	74.3
SD96-170	56.1	78.5	80.5	41.1	55.9	49.9	65.3
SD97-230	45.6	68.2	66.7	41.8	52.8	47.4	60.2
SD97-456	46.3	83.3	72.8	42.9	56.8	43.7	66.7
SD97-460	41.1	67.1	59.7	35.0	58.4	43.7	54.0
C.V. (%)	6.9	8.9	10.1	9.0	6.5	11.0	7.5
L.S.D. (5%)	5.8	12.2	12.6	3.9	4.9	9.0	6.8
Row Sp. (In.)	30	30	30	18	17	30	15
Rows/Plot	4	4	4	5	5	4	4
Reps	3	3	3	3	3	3	3

**UNIFORM TEST II, 2001**

**YIELD RANK**

Strain	Beemer NE	Cotesfield NE	Goehner NE	Harrow Ont.	Ridgetown Ont.	Beresford SD	Arlington WI
IA2021 (II)	4	5	7	3	7	3	5
IA2050 (I)	7	1	3	6	3	1	7
IA2052 (L)	2	3	2	5	5	4	2
E98076	3	4	4	7	6	2	1
SD96-170	1	6	1	4	4	4	4
SD97-230	6	7	6	2	8	6	6
SD97-456	4	2	4	1	2	7	3
SD97-460	8	8	8	8	1	7	8

**UNIFORM TEST II, 2001**

**MATURITY (date)**

Strain	Mean 17 Tests	Ames IA	Rippey IA	Dekalb IL	Dwight IL	Urbana IL
IA2021 (II)	9/19	9/14		9/17	9/6	9/2
IA2050 (I)	2.5	4		5	2	2
IA2052 (L)	5.3	12		6	7	3
E98076	4.0	3		5	3	6
SD96-170	4.8	11		-1	3	1
SD97-230	4.4	9		4	6	4
SD97-456	4.1	8		5	4	5
SD97-460	-2.9	-2		-6	-2	-3
Date Planted	5/17	5/10		5/15	5/4	5/1
Days to Mature	125	127		125	125	124

**UNIFORM TEST II, 2001**

**LODGING (score)**

Strain	Mean 18 Tests	Ames IA	Rippey IA	Dekalb IL	Dwight IL	Urbana IL
IA2021 (II)	1.6	2.0	1.8	1.5	2.2	1.0
IA2050 (I)	1.4	1.8	1.5	2.3	1.7	1.0
IA2052 (L)	1.9	3.3	1.5	1.8	2.5	1.7
E98076	1.4	1.5	1.8	2.5	1.5	1.5
SD96-170	1.9	2.3	1.8	2.2	2.7	1.3
SD97-230	1.9	2.8	1.8	2.2	3.3	2.2
SD97-456	1.8	2.0	1.5	2.5	2.8	1.8
SD97-460	1.5	2.3	1.5	2.2	2.0	1.3



**UNIFORM TEST II, 2001**

**MATURITY (date)**

Strain	Lafayette IN	Wanatah IN	Ingham County MI	Lanawee County MI	Lamberton MN	Waseca MN
IA2021 (II)	9/10	9/24	9/13	9/15	10/1	10/4
IA2050 (I)	+5	+2	5	2	4	1
IA2052 (L)	+8	+10	6	4	10	4
E98076	+7	+10	3	4	4	3
SD96-170	+7	+11	7	4	9	6
SD97-230	+6	+7	6	5	6	4
SD97-456	+7	+3	5	5	3	2
SD97-460	-3	-7	-1	-4	-1	-6
Date Planted	5/15	5/31	5/8	5/15	5/15	5/29
Days to Mature	118	116	128	123	139	128

**UNIFORM TEST II, 2001**

**LODGING (score)**

Strain	Lafayette IN	Wanatah IN	Ingham County MI	Lanawee County MI	Lamberton MN	Waseca MN
IA2021 (II)	1.0	1.5	1.0	1.0	3.3	2.3
IA2050 (I)	1.0	1.5	1.0	1.0	2.7	2.0
IA2052 (L)	1.8	1.3	2.0	1.0	3.0	2.7
E98076	1.2	1.0	1.0	1.0	2.3	2.3
SD96-170	2.0	1.5	1.5	1.0	2.3	2.3
SD97-230	1.7	1.3	1.5	1.0	3.0	2.7
SD97-456	1.5	1.3	1.5	1.0	3.0	2.7
SD97-460	1.0	1.0	1.0	1.0	2.7	2.0

**UNIFORM TEST II, 2001**

**MATURITY (date)**

Strain	Beemer NE	Cotesfield NE	Goehner NE	Harrow Ont.	Ridgetown Ont.	Beresford SD	Arlington WI
IA2021 (II)	9/30	9/20	9/18	10/3	9/9	9/22	9/25
IA2050 (I)	2	1	3	-3	3	4	7
IA2052 (L)	2	6	7	1	10	3	10
E98076	3	8	6	0	5	8	7
SD96-170	3	5	6	1	9	7	10
SD97-230	2	3	3	1	7	6	9
SD97-456	2	6	8	-1	7	1	9
SD97-460	-4	-5	-5	-7	1	-4	0
Date Planted	6/7	5/18	5/25	6/11	5/14	5/14	5/1
Days to Mature	115	125	116	114	118	131	147

**UNIFORM TEST II, 2001**

**LODGING (score)**

Strain	Beemer NE	Cotesfield NE	Goehner NE	Harrow Ont.	Ridgetown Ont.	Beresford SD	Arlington WI
IA2021 (II)	1.0	2.0	1.0	1.0	1.0	2.0	2.3
IA2050 (I)	1.0	1.3	1.0	1.0	1.0	2.0	1.0
IA2052 (L)	1.0	2.3	1.7	1.0	1.0	2.0	3.3
E98076	1.0	1.0	1.0	1.0	1.0	2.0	1.0
SD96-170	1.0	2.0	1.0	1.0	1.3	3.0	3.3
SD97-230	1.0	1.3	1.0	1.0	1.0	2.0	3.3
SD97-456	1.0	2.0	1.0	1.0	1.0	2.0	2.7
SD97-460	1.0	1.7	1.0	1.0	1.0	2.0	1.3

**UNIFORM TEST II, 2001****PLANT HEIGHT (inches)**

Strain	Mean 17 Tests	Ames IA	Rippey IA	Dekalb IL	Dwight IL	Urbana IL
IA2021 (II)	33	33	34	32	34	27
IA2050 (I)	34	34	35	36	38	29
IA2052 (L)	38	45	37	37	44	35
E98076	37	35	43	38	39	30
SD96-170	36	38	40	32	39	28
SD97-230	33	33	34	33	38	29
SD97-456	34	38	34	32	39	31
SD97-460	33	33	35	31	39	26

**UNIFORM TEST II, 2001****SEED SIZE (g/100)**

Strain	Mean 17 Tests	Ames IA	Rippey IA	Dekalb IL	Dwight IL	Urbana IL
IA2021 (II)	15.7	14.9	15.2	13.9	13.7	14.2
IA2050 (I)	15.7	15.2	15.2	13.4	13.3	14.4
IA2052 (L)	14.2	14.7	13.9	13.2	12.8	13.7
E98076	14.9	14.8	14.9	12.0	12.3	13.5
SD96-170	16.4	17.2	16.5	15.0	14.0	14.9
SD97-230	16.3	15.3	16.5	13.7	14.6	16.0
SD97-456	12.7	12.3	12.1	11.6	10.9	11.7
SD97-460	14.4	14.5	14.3	13.0	13.6	13.7

**UNIFORM TEST II, 2001****PLANT HEIGHT (inches)**

Strain	Lafayette IN	Wanatah IN	Ingham County MI	Lanawee County MI	Lamberton MN	Waseca MN
IA2021 (II)	32	37	26	26	35	36
IA2050 (I)	31	38	27	27	37	37
IA2052 (L)	36	39	34	31	40	42
E98076	37	41	32	35	43	40
SD96-170	37	39	31	33	42	42
SD97-230	31	36	30	28	38	39
SD97-456	34	36	32	28	38	40
SD97-460	32	37	31	32	38	39

**UNIFORM TEST II, 2001****SEED SIZE (g/100)**

Strain	Lafayette IN	Wanatah IN	Ingham County MI	Lanawee County MI	Lamberton MN	Waseca MN
IA2021 (II)	13.4	20.9	17.9	15.4	16.8	17.4
IA2050 (I)	15.5	19.5	16.9	16.5	14.4	16.1
IA2052 (L)	14.1	17.4	15.5	14.9	12.8	13.4
E98076	15.5	18.1	16.2	13.8	15.2	15.8
SD96-170	16.8	21.6	17.9	15.1	15.5	16.0
SD97-230	16.6	21.3	19.0	17.3	16.3	15.4
SD97-456	12.4	16.1	14.2	11.8	13.4	13.2
SD97-460	12.5	17.6	15.1	12.8	14.5	16.0

**UNIFORM TEST II, 2001****PLANT HEIGHT (inches)**

Strain	Beemer NE	Cotesfield NE	Goehner NE	Harrow Ont.	Ridgetown Ont.	Beresford SD	Arlington WI
IA2021 (II)		34	32	50	28	34	35
IA2050 (I)		33	33	48	31	35	36
IA2052 (L)		43	39	20	34	40	42
E98076		39	36	22	35	36	40
SD96-170		41	35	23	37	39	41
SD97-230		33	34	22	28	33	36
SD97-456		37	34	20	34	31	40
SD97-460		38	32	20	34	34	37

**UNIFORM TEST II, 2001****SEED SIZE (g/100)**

Strain	Beemer NE	Cotesfield NE	Goehner NE	Harrow Ont.	Ridgetown Ont.	Beresford SD	Arlington WI
IA2021 (II)	14.3	18.2	15.2	15.8		14.8	15.0
IA2050 (I)	14.1	18.8	16.5	16.0		15.0	15.6
IA2052 (L)	13.4	16.3	14.7	14.4		13.3	13.7
E98076	14.1	17.5	14.6	15.3		14.3	14.9
SD96-170	15.6	19.0	17.1	16.3		15.5	15.4
SD97-230	14.0	18.0	14.8	16.9		15.4	16.1
SD97-456	11.2	14.3	12.8	12.6		12.8	13.3
SD97-460	13.5	16.0	14.1	14.2		14.1	14.6

**UNIFORM TEST II, 2001****SEED QUALITY (score)**

Strain	Mean 11 Tests	Ames IA	Rippey IA	Dekalb IL	Dwight IL	Urbana IL
IA2021 (II)	1.8			1.0	2.5	2.0
IA2050 (I)	1.9			2.5	2.0	2.5
IA2052 (L)	1.8			2.0	1.0	1.5
E98076	1.7			2.0	1.5	1.0
SD96-170	2.0			1.0	2.5	2.5
SD97-230	2.2			2.0	2.0	2.5
SD97-456	2.0			2.0	1.5	2.5
SD97-460	1.7			1.5	1.5	2.0

**UNIFORM TEST II, 2001****GREEN STEM (score)**

Strain	Mean 7 Tests	Ames IA	Rippey IA	Dekalb IL	Dwight IL	Urbana IL
IA2021 (II)	1.9	1.0				
IA2050 (I)	1.9	1.0				
IA2052 (L)	2.3	2.0				
E98076	2.6	2.0				
SD96-170	2.0	1.0				
SD97-230	2.2	2.0				
SD97-456	2.0	2.0				
SD97-460	2.1	1.0				

**UNIFORM TEST II, 2001****SEED QUALITY (score)**

---

Strain	Lafayette IN	Wanatah IN	Ingham County MI	Lanawee County MI	Lamberton MN	Waseca MN
IA2021 (II)	1.0	1.5			2.0	2.0
IA2050 (I)	1.0	1.5			2.0	2.0
IA2052 (L)	1.0	1.0			2.3	3.7
E98076	1.0	1.5			2.0	2.3
SD96-170	1.0	1.5			2.0	3.3
SD97-230	1.0	1.5			2.0	3.7
SD97-456	1.0	1.0			2.3	2.7
SD97-460	1.0	1.5			1.7	2.3

---

**UNIFORM TEST II, 2001****GREEN STEM (score)**

---

Strain	Lafayette IN	Wanatah IN	Ingham County MI	Lanawee County MI	Lamberton MN	Waseca MN
IA2021 (II)						
IA2050 (I)						
IA2052 (L)						
E98076						
SD96-170						
SD97-230						
SD97-456						
SD97-460						

---

**UNIFORM TEST II, 2001****SEED QUALITY (score)**

---

Strain	Beemer NE	Cotesfield NE	Goehner NE	Harrow Ont.	Ridgetown Ont.	Beresford SD	Arlington WI
IA2021 (II)				2.0	1.3	3.0	1.3
IA2050 (I)				1.8	1.3	3.0	1.7
IA2052 (L)				1.5	1.0	2.0	2.3
E98076				2.0	1.0	3.0	1.7
SD96-170				1.7	1.3	2.0	2.7
SD97-230				2.7	1.3	3.0	2.7
SD97-456				2.0	1.3	3.0	2.3
SD97-460				2.0	1.0	2.0	2.0

---

**UNIFORM TEST II, 2001****GREEN STEM (score)**

---

Strain	Beemer NE	Cotesfield NE	Goehner NE	Harrow Ont.	Ridgetown Ont.	Beresford SD	Arlington WI
IA2021 (II)	2.0	4.0	2.0	1.0	2.0		1.0
IA2050 (I)	2.0	2.0	4.0	1.0	2.3		1.0
IA2052 (L)	2.0	3.0	3.0	1.0	4.3		1.0
E98076	2.0	3.0	4.0	1.0	5.0		1.0
SD96-170	3.0	2.0	4.0	1.0	2.3		1.0
SD97-230	3.0	1.0	3.0	1.0	4.7		1.0
SD97-456	2.0	2.0	3.0	1.0	2.7		1.0
SD97-460	2.0	3.0	4.0	1.0	1.7		1.7

---



**UNIFORM TEST II, 2001**

**PROTEIN (%)**

Strain	Mean 4 Tests	Ames IA	Urbana IL	Lafayette IN	Lamberton MN
IA2021 (II)	37.0	37.7	38.6	35.9	35.8
IA2050 (I)	40.0	41.3	40.9	39.4	38.2
IA2052 (L)	39.8	41.3	41.9	38.3	37.9
E98076	37.0	38.1	39.0	36.9	33.8
SD96-170	38.7	39.7	39.4	38.4	37.4
SD97-230	40.5	41.5	42.1	39.9	38.4
SD97-456	38.9	39.6	41.0	39.2	35.6
SD97-460	39.0	40.8	40.4	37.4	37.4

**UNIFORM TEST II, 2001**

**OIL (%)**

Strain	Mean 4 Tests	Ames IA	Urbana IL	Lafayette IN	Lamberton MN
IA2021 (II)	22.8	22.4	23.1	24.0	21.7
IA2050 (I)	21.0	20.4	21.6	21.5	20.5
IA2052 (L)	21.0	20.5	20.8	22.5	20.2
E98076	21.7	21.5	21.9	22.4	20.8
SD96-170	21.5	20.9	22.5	22.0	20.6
SD97-230	20.2	19.9	20.2	21.3	19.3
SD97-456	21.1	21.2	20.8	21.4	20.9
SD97-460	21.5	20.7	21.6	22.8	20.8

Preliminary Test IIA, 2001

	Strain	Parentage	Generation Composited	Unique Traits
1.	IA2021 (II)	Elgin 87 x Marcus	F5	
2.	IA2050 (I)	Northrup King S24-90 x A91-501002	F5	BSR
3.	IA2052 (L)	Northrup King S24-92 x Parker	F5	
4.	Loda (SCN)	Jack x IA3003	F5	SCN
5.	A00-711003	A95-485020 x IA2036	F5	
6.	A00-711013	AP1953 x LN94-10470	F5	
7.	A00-711022	A95-485020 x IA2036	F5	
8.	A00-711023	A95-485020 x IA2036	F5	
9.	A00-711025	Pioneer P9233 x IA2036	F5	
10.	A00-711036	Pioneer P9233 x IA2036	F5	
11.	A00-711041	Pioneer P9233 x IA2036	F5	
12.	A00-711042	Pioneer P9321 x IA2036	F5	
13.	A00-711063	Pioneer P9233 x A95-485020	F5	
14.	A00-712041	Pioneer P9233 x AP1953	F4	
15.	A00-712059	Pioneer P9233 x A95-485020	F5	
16.	A00-712063	A95-485020 x AP3355	F4	
17.	A00-812031	AP1953 x IA3010	F5	
18.	A00-812042	Pioneer P9321 x Pioneer P9233	F5	
19.	A00-812049	Pioneer P9321 x A95-485020	F5	
20.	C2020	Savoy x CX1212-36	F5	fan
21.	C2021	Savoy x CX1212-36	F5	fan
22.	C2022	CX1212-36 x Savoy	F5	fan
23.	ORC 2008	Westag 97 x Jacques J-251	F5	
24.	ORC 2009	Northrup King S24-92 x Pioneer 9305	F5	
25.	SD98-342	Marcus x Kenwood	F5	
26.	SD98-595	Kato x Asgrow A1929	F5	Rps1k
27.	SD98-1337	Sturdy x A92-525014	F5	
28.	SD98-1952	Hendricks x Asgrow A1929	F5	Rps1k

PRELIMINARY TEST IIA, 2091  
DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	Shattering Score Manhattan	PR Lafayette		PS Lafayette	P&SB
			Race 4	Race 7	a %	n %
IA2021 (II)	WTBDYBII	1.0	R	R	26	8
IA2050 (I)	PTBDYBII	2.0	S	R	14	14
IA2052 (L)	WGBIYBfl	1.0	S	S	70	14
Loda (SCN)	PGBSYGrI	1.0	H	H	44	10
A00-711003	PGBIYBfl	1.0	R	R	44	0
A00-711013	P+WGBSYI	1.0	S	R	56	0
A00-711022	PGBDYYI	2.0	S	H	34	2
A00-711023	PGBSYI	2.0	S	H	34	0
A00-711025	PTBSYI	2.0	S	S	30	2
A00-711036	PGBSYBfl	1.0	S	S	64	4
A00-711041	WGBSYI	1.0	S	S	60	6
A00-711042	PT+GBSYBrI	1.0	S	R	50	8
A00-711063	WGTDYBfl	2.0	S	H	26	6
A00-712041	PTBSYBrI	1.0	H	H	46	2
A00-712059	WTBDYBrI	2.0	S	S	60	16
A00-712063	PGBSYIbI	1.0	S	S	18	0
A00-812031	PTTDYBII	1.0	R	R	8	2
A00-812042	PGB+TDYBrI	1.0	S	S	18	0
A00-812049	PGBDYHI	1.0	S	S	38	4
C2020	PTBDYBII	1.0	S	S	22	12
C2021	PTTDYBII	3.0	S	H	26	4
C2022	PTTDYBII	4.0	R	R	14	4
ORC 2008	PTTDYBrI	2.0	H	S	10	8
ORC 2009	PGBDYYI	2.0	H	H	30	2
SD98-342	PTBDYGrI	1.0	S	S	46	8
SD98-595	PGBDYBII	1.0	R	R	18	6
SD98-1337	WGBDYBfl	1.0	S	S	30	0
SD98-1952	PGBDYBfl	1.0	R	R	22	2

PRELIMINARY TEST IIA, 2001

REGIONAL SUMMARY

No. of Tests Strain	Yield 9 bu/a	Rank 9 No.	Maturity 8 Date	Lodging 9 Score	Plant Height 8 In.	Seed Size 9 g/100	Seed Quality 3 Score	Green Stem 3 Score	Composition	
									Protein 4 %	Oil 4 %
IA2021 (II)	47.2	21	9/15	1.4	30	14.9	2.0	2.0	37.3	23.5
IA2050 (I)	48.1	18	2.6	1.3	31	15.6	2.0	1.3	39.5	21.9
IA2052 (L)	49.9	11	6.8	1.5	35	14.6	1.3	1.7	39.5	21.9
Loda (SCN)	49.3	12	6.3	1.5	30	15.8	2.0	1.3	38.8	22.4
A00-711003	52.5	3	2.8	1.5	30	14.9	1.8	1.3	39.5	22.0
A00-711013	51.6	5	3.5	1.4	32	12.8	2.2	2.3	38.2	22.0
A00-711022	46.2	24	-0.9	1.4	29	14.8	2.5	1.3	39.2	22.3
A00-711023	47.6	20	1.4	1.8	33	15.1	2.3	1.7	40.5	21.5
A00-711025	51.2	8	1.1	2.5	38	12.1	2.3	1.3	39.5	21.7
A00-711036	46.4	23	-0.3	2.2	38	12.7	2.2	1.3	40.2	20.8
A00-711041	48.4	17	2.0	1.5	35	14.1	2.2	2.0	41.0	21.2
A00-711042	48.5	15	2.1	2.2	40	12.8	2.2	1.0	39.6	20.8
A00-711063	49.1	13	2.9	1.6	34	14.0	1.7	1.7	38.3	22.6
A00-712041	48.9	14	0.1	1.3	29	13.9	2.0	1.7	37.9	22.7
A00-712059	52.3	4	2.8	1.4	33	13.3	2.3	2.0	39.4	21.7
A00-712063	50.4	10	3.4	1.5	34	15.7	2.3	1.7	37.8	23.3
A00-812031	53.5	1	5.0	1.4	31	13.7	1.8	2.3	38.2	22.1
A00-812042	52.6	2	4.3	1.4	32	13.9	2.0	2.0	40.9	20.6
A00-812049	51.5	7	8.4	1.6	34	13.9	1.7	1.7	38.4	22.3
C2020	48.5	15	2.3	1.4	31	15.2	1.8	1.3	41.8	21.1
C2021	43.4	26	-1.6	1.4	32	15.9	1.5	1.7	41.9	21.4
C2022	47.2	21	3.9	1.2	30	16.1	1.7	1.7	41.3	21.2
ORC 2008	50.6	9	6.4	1.5	33	14.6	2.5	1.7	39.1	22.0
ORC 2009	51.6	5	6.9	1.3	32	15.2	2.0	2.0	39.8	21.7
SD98-342	47.8	19	5.3	1.6	33	13.4	2.0	2.7	37.8	22.0
SD98-595	45.0	25	-0.6	1.4	30	15.4	1.8	1.0	40.2	21.6
SD98-1337	42.7	27	-2.5	1.2	31	15.5	1.8	1.7	38.7	22.1
SD98-1952	36.5	28	-4.6	1.0	26	15.7	2.2	2.0	40.6	22.1

119.6 Days After Planting

PRELIMINARY TEST IIA, 2001

YIELD (bu/a)

Strain	Mean 9 Tests	Ames IA	Rippey IA	Urbana IL	Lafay- ette IN	Ingham County MI
IA2021 (II)	47.2	55.8	53.9	37.6	36.3	42.7
IA2050 (I)	48.1	59.4	46.3	39.7	42.7	40.5
IA2052 (L)	49.9	58.2	41.2	45.3	41.3	50.5
Loda (SCN)	49.3	52.2	48.7	46.8	40.7	58.8
A00-711003	52.5	61.6	53.3	48.4	37.8	53.1
A00-711013	51.6	60.2	53.1	47.1	47.5	42.2
A00-711022	46.2	51.3	55.5	41.1	32.3	32.0
A00-711023	47.6	59.1	50.2	43.4	39.7	46.4
A00-711025	51.2	60.5	53.5	38.2	39.2	55.7
A00-711036	46.4	56.7	53.5	40.2	36.3	51.2
A00-711041	48.4	53.7	54.4	41.4	40.7	46.4
A00-711042	48.5	57.1	51.9	41.6	39.3	51.0
A00-711063	49.1	59.6	55.3	29.2	42.0	49.1
A00-712041	48.9	58.6	47.2	42.4	41.0	46.3
A00-712059	52.3	59.4	59.4	46.6	43.8	54.5
A00-712063	50.4	59.3	42.8	41.4	41.8	49.2
A00-812031	53.5	58.7	52.9	43.3	44.4	49.3
A00-812042	52.6	60.4	49.7	43.9	39.8	49.6
A00-812049	51.5	59.8	47.1	50.4	42.3	46.7
C2020	48.5	63.6	50.4	37.8	41.9	52.9
C2021	43.4	55.2	47.4	36.7	35.2	49.5
C2022	47.2	52.0	45.7	44.7	41.8	51.6
ORC 2008	50.6	54.0	49.6	42.0	44.4	50.6
ORC 2009	51.6	60.5	55.0	42.1	43.5	39.4
SD98-342	47.8	56.0	47.0	37.8	42.0	41.8
SD98-595	45.0	49.3	54.3	32.3	35.0	44.3
SD98-1337	42.7	56.5	53.2	28.8	32.4	31.1
SD98-1952	36.5	55.0	45.2	27.8	23.4	20.9
C.V. (%)		5.9	8.6	8.0	8.1	10.4
L.S.D. (5%)		6.9	8.9	6.7	6.5	11.5
Row Sp. (In.)		27	27	30	24	15
Rows/Plot		4	4	4	4	6
Reps		2	2	2	2	2

## PRELIMINARY TEST IIA, 2001

## YIELD (bu/a)

Strain	Beemer NE	Goehner NE	Harrow Ont.	Beres- ford SD
IA2021 (II)	48.4	71.8	32.9	45.7
IA2050 (I)	44.4	72.6	34.8	52.6
IA2052 (L)	50.0	75.4	37.6	49.3
Loda (SCN)	43.6	77.2	27.4	48.1
A00-711003	47.2	75.8	46.1	49.4
A00-711013	51.1	77.8	37.6	48.0
A00-711022	46.8	71.9	43.5	41.1
A00-711023	42.5	68.1	35.8	43.3
A00-711025	47.8	70.7	40.7	54.9
A00-711036	43.8	66.1	26.8	43.1
A00-711041	44.5	67.4	39.2	48.0
A00-711042	43.9	62.0	41.1	49.0
A00-711063	46.1	72.7	37.8	50.6
A00-712041	43.6	74.8	38.3	48.1
A00-712059	47.6	75.1	29.0	55.4
A00-712063	52.8	68.4	45.0	52.8
A00-812031	50.4	81.7	47.2	54.0
A00-812042	47.0	80.8	43.8	58.6
A00-812049	50.4	76.0	45.2	45.6
C2020	41.3	62.0	36.2	50.4
C2021	35.3	56.6	27.6	46.8
C2022	43.5	61.5	35.3	49.2
ORC 2008	50.1	70.0	47.9	47.0
ORC 2009	49.9	79.8	39.2	55.4
SD98-342	41.4	73.1	43.2	48.4
SD98-595	44.9	69.0	29.1	46.9
SD98-1337	45.3	67.6	29.9	39.8
SD98-1952	30.6	52.7	29.1	43.5
C.V. (%)	4.5	8.9	10.6	9.5
L.S.D. (5%)	ns	13.8	5.2	9.1
Row Sp. (In.)	30	30	18	30
Rows/Plot	4	4	5	4
Reps	2	2	2	2

PRELIMINARY TEST IIA, 2001

YIELD RANK

Strain	Yield Rank	Ames IA	Ripley IA	Urbana IL	Lafayette IN	East Lansing MI
IA2021 (II)	21	20	7	23	22	21
IA2050 (I)	18	9	24	19	6	24
IA2052 (L)	11	15	28	6	13	10
Loda (SCN)	12	25	19	4	15	1
A00-711003	3	2	10	2	21	4
A00-711013	5	6	12	3	1	22
A00-711022	24	27	2	17	27	26
A00-711023	20	12	16	9	18	17
A00-711025	8	3	8	20	20	2
A00-711036	23	17	8	18	22	7
A00-711041	17	24	5	16	15	18
A00-711042	15	16	14	14	19	8
A00-711063	13	8	3	26	8	15
A00-712041	14	14	21	11	14	19
A00-712059	4	9	1	5	4	3
A00-712063	10	11	27	15	11	14
A00-812031	1	13	13	10	2	13
A00-812042	2	5	17	8	17	11
A00-812049	7	7	22	1	7	16
C2020	15	1	15	22	10	5
C2021	26	21	20	24	24	12
C2022	21	26	25	7	11	6
ORC 2008	9	23	18	13	2	9
ORC 2009	5	3	4	12	5	25
SD98-342	19	19	23	22	8	23
SD98-595	25	28	6	25	25	20
SD98-1337	27	18	11	27	26	27
SD98-1952	28	22	26	28	28	28

PRELIMINARY TEST IIA, 2001

YIELD RANK

Strain	Beemer NE	Goehner NE	Harrow Ont.	Beres- ford SD
IA2021 (II)	8	15	21	22
IA2050 (I)	18	13	20	7
IA2052 (L)	6	8	16	11
Loda (SCN)	21	5	27	15
A00-711003	11	7	3	10
A00-711013	2	4	15	17
A00-711022	13	14	7	27
A00-711023	24	20	18	25
A00-711025	9	16	10	4
A00-711036	20	23	28	26
A00-711041	17	22	12	18
A00-711042	19	24	9	13
A00-711063	14	12	14	8
A00-712041	21	10	13	16
A00-712059	10	9	25	2
A00-712063	1	19	5	6
A00-812031	3	1	2	5
A00-812042	12	2	6	1
A00-812049	3	6	4	23
C2020	26	24	17	9
C2021	27	27	26	21
C2022	23	26	19	12
ORC 2008	5	17	1	19
ORC 2009	7	3	11	3
SD98-342	25	11	8	14
SD98-595	16	18	24	20
SD98-1337	15	21	22	28
SD98-1952	28	28	23	24



PRELIMINARY TEST IIA, 2001

MATURITY (date)

Strain	Mean 8 Tests	Ames IA	Rippey IA	Urbana IL	Lafay- ette IN	East Lansing MI
IA2021 (II)	09/15	9/14		9/1	9/4	9/9
IA2050 (I)	2.6	4		2	+9	6
IA2052 (L)	6.8	12		6	+13	13
Loda (SCN)	6.3	6		8	+10	16
A00-711003	2.8	4		2	+8	9
A00-711013	3.5	5		4	+11	5
A00-711022	-0.9	0		-3	+3	1
A00-711023	1.4	4		1	+7	4
A00-711025	1.1	5		0	+6	5
A00-711036	-0.3	2		0	+6	5
A00-711041	2.0	2		0	+8	3
A00-711042	2.1	3		0	+9	5
A00-711063	2.9	6		0	+11	3
A00-712041	0.1	0		0	+5	4
A00-712059	2.8	2		3	+8	9
A00-712063	3.4	3		1	+7	8
A00-812031	5.0	5		6	+13	7
A00-812042	4.3	5		3	+9	10
A00-812049	8.4	11		9	+15	14
C2020	2.3	2		3	+12	14
C2021	-1.6	-2		3	+7	11
C2022	3.9	3		9	+11	13
ORC 2008	6.4	10		7	+13	12
ORC 2009	6.9	12		7	+12	8
SD98-342	5.3	8		7	+12	6
SD98-595	-0.6	1		-2	+5	4
SD98-1337	-2.5	-1		-3	+2	0
SD98-1952	-4.6	-5		-5	-2	-3
Date Planted	5/19	5/10		5/1	5/15	5/8
Days to Mature	120	127		123	112	124

PRELIMINARY TEST IIA, 2001

MATURITY (date)

Strain	Beemer NE	Goehner NE	Harrow Ont.	Beres- ford SD
IA2021 (II)	9/29	9/17	10/3	9/19
IA2050 (I)	1	3	0	5
IA2052 (L)	2	8	2	11
Loda (SCN)	2	7	2	9
A00-711003	2	2	-1	4
A00-711013	2	3	1	8
A00-711022	-1	-3	-4	3
A00-711023	1	0	-2	3
A00-711025	-1	0	-7	7
A00-711036	-1	-4	-7	3
A00-711041	2	4	0	5
A00-711042	2	2	-2	7
A00-711063	2	6	2	4
A00-712041	0	0	-3	0
A00-712059	1	2	0	5
A00-712063	3	6	-1	7
A00-812031	4	5	2	11
A00-812042	2	5	-1	10
A00-812049	5	13	4	11
C2020	-2	-2	1	2
C2021	-5	-5	-5	-10
C2022	0	2	-1	5
ORC 2008	5	5	1	11
ORC 2009	5	9	3	11
SD98-342	4	7	2	8
SD98-595	0	-3	-4	-1
SD98-1337	-1	-3	-3	-9
SD98-1952	-3	-12	-2	-7
Date Planted	6/7	5/25	6/11	5/14
Days to Mature	114	115	114	128

PRELIMINARY TEST IIA, 2001

LODGING (score)

Strain	Mean 9 Tests	Ames IA	Rippey IA	Urbana IL	Lafay- ette IN	East Lansing MI
IA2021 (II)	1.4	2.0	1.8	1.5	1.0	1.0
IA2050 (I)	1.3	1.8	1.5	1.5	1.0	1.0
IA2052 (L)	1.5	3.3	1.5	1.5	1.0	1.5
Loda (SCN)	1.5	1.8	1.5	1.5	1.3	2.0
A00-711003	1.5	1.8	1.8	2.0	1.0	1.0
A00-711013	1.4	2.3	1.5	1.5	1.5	1.0
A00-711022	1.4	2.0	1.5	2.0	1.0	1.5
A00-711023	1.8	2.8	2.0	2.8	1.0	2.5
A00-711025	2.5	3.8	2.0	4.0	1.8	3.0
A00-711036	2.2	3.3	2.5	2.8	1.8	2.5
A00-711041	1.5	2.0	1.5	1.8	1.5	2.0
A00-711042	2.2	2.5	2.3	3.3	1.5	2.0
A00-711063	1.6	2.0	2.0	1.5	1.5	1.5
A00-712041	1.3	1.3	1.5	1.3	1.0	1.5
A00-712059	1.4	1.5	1.5	1.3	1.0	2.0
A00-712063	1.5	1.8	1.5	2.3	1.0	1.5
A00-812031	1.4	1.5	1.5	1.5	1.3	1.5
A00-812042	1.4	2.0	1.5	1.5	1.3	1.5
A00-812049	1.6	1.8	1.8	2.0	1.3	1.5
C2020	1.4	2.0	1.5	1.5	1.0	2.0
C2021	1.4	1.8	1.5	1.5	1.3	1.5
C2022	1.2	1.3	1.0	1.5	1.0	1.5
ORC 2008	1.5	2.0	2.3	1.8	1.3	1.5
ORC 2009	1.3	2.0	1.5	1.3	1.0	1.0
SD98-342	1.6	2.0	1.5	1.5	1.5	1.5
SD98-595	1.4	2.0	1.8	1.3	1.0	1.5
SD98-1337	1.2	1.5	1.3	1.3	1.0	1.0
SD98-1952	1.0	1.3	1.0	1.0	1.0	1.0

PRELIMINARY TEST IIA, 2001

LODGING (score)

Strain	Beemer NE	Goehner NE	Harrow Ont.	Beres- ford SD
IA2021 (II)	1.0	1.0	1.0	2.0
IA2050 (I)	1.0	1.0	1.0	2.0
IA2052 (L)	1.0	1.0	1.0	2.0
Loda (SCN)	1.0	1.0	1.5	2.0
A00-711003	1.0	1.0	2.0	2.0
A00-711013	1.0	1.0	1.0	2.0
A00-711022	1.0	1.0	1.0	2.0
A00-711023	1.0	1.5	1.0	2.0
A00-711025	1.0	1.5	2.0	3.0
A00-711036	1.0	1.5	1.5	3.0
A00-711041	1.0	1.0	1.0	2.0
A00-711042	1.0	2.0	2.0	3.0
A00-711063	1.0	1.5	1.0	2.0
A00-712041	1.0	1.0	1.0	2.0
A00-712059	1.0	1.0	1.0	2.0
A00-712063	1.0	1.0	1.0	2.0
A00-812031	1.0	1.0	1.0	2.0
A00-812042	1.0	1.0	1.0	2.0
A00-812049	1.0	1.0	1.0	3.0
C2020	1.0	1.0	1.0	2.0
C2021	1.0	1.0	1.0	2.0
C2022	1.0	1.0	1.5	1.0
ORC 2008	1.0	1.0	1.0	2.0
ORC 2009	1.0	1.0	1.0	2.0
SD98-342	1.0	1.0	1.0	3.0
SD98-595	1.0	1.0	1.0	2.0
SD98-1337	1.0	1.0	1.0	2.0
SD98-1952	1.0	1.0	1.0	1.0

PRELIMINARY TEST IIA, 2001

PLANT HEIGHT (inches)

Strain	Mean 8 Tests	Ames IA	Rippey IA	Urbana IL	Lafayette IN	East Lansing MI
IA2021 (II)	30	33	34	30	32	26
IA2050 (I)	31	34	35	31	31	27
IA2052 (L)	35	45	37	36	35	30
Loda (SCN)	30	32	35	31	32	31
A00-711003	30	34	33	29	29	30
A00-711013	32	37	38	31	32	27
A00-711022	29	36	33	28	29	25
A00-711023	33	36	38	33	34	33
A00-711025	38	40	40	36	40	41
A00-711036	38	40	44	35	42	37
A00-711041	35	35	40	32	40	33
A00-711042	40	44	48	34	44	34
A00-711063	34	38	38	33	40	27
A00-712041	29	32	31	30	31	27
A00-712059	33	38	36	33	35	35
A00-712063	34	40	34	33	35	32
A00-812031	31	36	34	31	29	31
A00-812042	32	35	34	32	31	32
A00-812049	34	37	39	32	33	31
C2020	31	33	31	31	34	34
C2021	32	35	33	32	34	32
C2022	30	35	32	31	30	30
ORC 2008	33	38	35	33	31	28
ORC 2009	32	39	35	29	34	26
SD98-342	33	39	36	32	36	28
SD98-595	30	33	35	28	33	30
SD98-1337	31	37	34	31	32	28
SD98-1952	26	30	27	24	25	25

PRELIMINARY TEST IIA, 2001

PLANT HEIGHT (inches)

Strain	Beemer NE	Goehner NE	Harrow Ont.	Beres- ford SD
IA2021 (II)		30	22	33
IA2050 (I)		32	21	34
IA2052 (L)		35	23	36
Loda (SCN)		26	20	34
A00-711003		31	19	33
A00-711013		32	20	37
A00-711022		30	20	34
A00-711023		36	22	34
A00-711025		39	22	42
A00-711036		42	20	43
A00-711041		38	23	38
A00-711042		41	28	45
A00-711063		36	24	39
A00-712041		31	17	34
A00-712059		33	20	37
A00-712063		36	22	42
A00-812031		30	20	34
A00-812042		32	23	34
A00-812049		38	25	39
C2020		31	20	36
C2021		34	20	38
C2022		28	21	31
ORC 2008		34	25	36
ORC 2009		32	20	39
SD98-342		35	24	36
SD98-595		31	17	34
SD98-1337		34	19	33
SD98-1952		28	15	31

PRELIMINARY TEST IIA, 2001

SEED SIZE (g/100)

Strain	Mean 9 Tests	Ames IA	Rippey IA	Urbana IL	Lafay- ette IN	East Lansing MI
IA2021 (II)	14.9	14.9	15.2	14.4	13.7	18.0
IA2050 (I)	15.6	15.2	15.2	14.6	15.3	17.2
IA2052 (L)	14.6	14.7	13.9	13.8	13.9	16.4
Loda (SCN)	15.8	15.4	15.8	14.9	14.6	18.2
A00-711003	14.9	14.3	15.4	15.1	13.2	16.3
A00-711013	12.8	11.7	12.8	12.6	12.2	13.9
A00-711022	14.8	14.4	15.0	14.9	13.9	15.6
A00-711023	15.1	14.7	15.0	15.1	14.7	17.8
A00-711025	12.1	12.2	12.4	12.8	11.1	13.4
A00-711036	12.7	12.9	13.2	12.8	12.4	14.4
A00-711041	14.1	14.1	14.9	13.2	13.5	15.5
A00-711042	12.8	12.0	13.4	12.2	12.6	14.7
A00-711063	14.0	13.2	13.6	12.5	13.1	15.4
A00-712041	13.9	13.4	13.5	12.7	12.2	15.5
A00-712059	13.3	13.3	13.8	12.8	12.8	15.1
A00-712063	15.7	15.7	15.0	14.5	14.8	18.0
A00-812031	13.7	12.7	13.7	12.5	13.4	14.7
A00-812042	13.9	13.9	13.8	14.1	13.5	14.6
A00-812049	13.9	13.7	13.3	13.4	14.3	15.6
C2020	15.2	14.5	15.0	12.9	15.3	18.2
C2021	15.9	15.9	15.5	14.4	15.5	19.7
C2022	16.1	11.1	14.8	15.0	17.6	19.6
ORC 2008	14.6	13.0	14.4	13.4	15.2	17.7
ORC 2009	15.2	14.3	15.0	14.1	14.3	18.7
SD98-342	13.4	13.0	13.0	12.5	13.0	14.4
SD98-595	15.4	15.7	14.9	14.0	14.3	16.9
SD98-1337	15.5	15.7	16.1	14.9	14.3	17.2
SD98-1952	15.7	17.2	16.5	16.2	13.8	16.0

PRELIMINARY TEST IIA, 2001

SEED SIZE (g/100)

Strain	Beemer NE	Goehner NE	Harrow Ont.	Beres- ford SD
IA2021 (II)	14.0	15.3	15.4	13.3
IA2050 (I)	14.7	16.9	15.3	15.8
IA2052 (L)	14.5	16.1	14.5	13.7
Loda (SCN)	15.0	16.6	16.0	15.9
A00-711003	14.2	14.9	16.0	15.0
A00-711013	12.8	12.6	14.0	12.5
A00-711022	13.6	15.3	16.0	14.6
A00-711023	14.2	13.8	16.3	14.1
A00-711025	10.5	12.8	12.3	11.1
A00-711036	11.7	12.8	12.5	11.7
A00-711041	13.3	14.2	14.5	13.3
A00-711042	11.4	12.8	13.3	12.9
A00-711063	13.7	14.5	15.9	14.5
A00-712041	14.6	15.1	14.6	13.5
A00-712059	12.8	13.6	13.1	12.0
A00-712063	15.8	16.4	14.8	16.1
A00-812031	13.2	14.3	14.6	13.9
A00-812042	12.6	15.0	13.9	13.3
A00-812049	13.3	14.3	14.1	13.3
C2020	14.9	15.1	15.9	15.3
C2021	16.1	16.4	15.3	14.3
C2022	15.6	15.8	16.3	19.4
ORC 2008	14.1	13.5	15.6	14.1
ORC 2009	14.6	15.4	16.2	14.6
SD98-342	12.8	13.5	13.9	14.1
SD98-595	16.2	16.0	15.8	14.9
SD98-1337	15.2	16.2	15.4	14.3
SD98-1952	15.8	14.4	17.6	13.9



PRELIMINARY TEST IIA, 2001

SEED QUALITY (score)

Strain	Mean 3 Tests	Ames IA	Rippey IA	Urbana IL	Lafayette IN	East Lansing MI
IA2021 (II)	2.0			1.5	1.5	
IA2050 (I)	2.0			2.0	1.0	
IA2052 (L)	1.3			1.0	1.0	
Loda (SCN)	2.0			2.0	1.0	
A00-711003	1.8			2.0	1.5	
A00-711013	2.2			1.5	1.0	
A00-711022	2.5			3.0	1.5	
A00-711023	2.3			3.0	1.0	
A00-711025	2.3			2.0	1.0	
A00-711036	2.2			2.5	1.0	
A00-711041	2.2			2.5	1.0	
A00-711042	2.2			2.5	1.0	
A00-711063	1.7			1.0	1.0	
A00-712041	2.0			1.0	1.0	
A00-712059	2.3			3.0	1.0	
A00-712063	2.3			2.0	2.0	
A00-812031	1.8			1.5	1.0	
A00-812042	2.0			2.0	1.0	
A00-812049	1.7			2.0	1.0	
C2020	1.8			1.5	1.0	
C2021	1.5			1.5	1.0	
C2022	1.7			2.0	1.0	
ORC 2008	2.5			2.5	1.0	
ORC 2009	2.0			1.0	1.0	
SD98-342	2.0			2.0	1.0	
SD98-595	1.8			1.5	1.0	
SD98-1337	1.8			1.5	1.0	
SD98-1952	2.2			2.5	1.0	

PRELIMINARY TEST IIA, 2001

SEED QUALITY (score)

Strain	Beemer NE	Goehner NE	Harrow Ont.	Beres- ford SD
IA2021 (II)				3.0
IA2050 (I)				3.0
IA2052 (L)				2.0
Loda (SCN)				3.0
A00-711003				2.0
A00-711013				4.0
A00-711022				3.0
A00-711023				3.0
A00-711025				4.0
A00-711036				3.0
A00-711041				3.0
A00-711042				3.0
A00-711063				3.0
A00-712041				4.0
A00-712059				3.0
A00-712063				3.0
A00-812031				3.0
A00-812042				3.0
A00-812049				2.0
C2020				3.0
C2021				2.0
C2022				2.0
ORC 2008				4.0
ORC 2009				4.0
SD98-342				3.0
SD98-595				3.0
SD98-1337				3.0
SD98-1952				3.0

PRELIMINARY TEST IIA, 2001

GREEN STEM (score)

Strain	Mean 3 Tests	Ames IA	Rippey IA	Urbana IL	Lafay- ette IN	East Lansing MI
IA2021 (II)	2.0	1.0				
IA2050 (I)	1.3	1.0				
IA2052 (L)	1.7	2.0				
Loda (SCN)	1.3	1.0				
A00-711003	1.3	1.0				
A00-711013	2.3	1.0				
A00-711022	1.3	1.0				
A00-711023	1.7	1.0				
A00-711025	1.3	2.0				
A00-711036	1.3	1.0				
A00-711041	2.0	1.0				
A00-711042	1.0	1.0				
A00-711063	1.7	2.0				
A00-712041	1.7	1.0				
A00-712059	2.0	1.0				
A00-712063	1.7	1.0				
A00-812031	2.3	2.0				
A00-812042	2.0	2.0				
A00-812049	1.7	2.0				
C2020	1.3	1.0				
C2021	1.7	1.0				
C2022	1.7	1.0				
ORC 2008	1.7	2.0				
ORC 2009	2.0	2.0				
SD98-342	2.7	3.0				
SD98-595	1.0	1.0				
SD98-1337	1.7	1.0				
SD98-1952	2.0	1.0				

PRELIMINARY TEST IIA, 2001

GREEN STEM (score)

Strain	Beemer NE	Goehner NE	Harrow Ont.	Beres- ford SD
IA2021 (II)	4.0		1.0	
IA2050 (I)	2.0		1.0	
IA2052 (L)	2.0		1.0	
Loda (SCN)	2.0		1.0	
A00-711003	2.0		1.0	
A00-711013	5.0		1.0	
A00-711022	2.0		1.0	
A00-711023	3.0		1.0	
A00-711025	1.0		1.0	
A00-711036	2.0		1.0	
A00-711041	4.0		1.0	
A00-711042	1.0		1.0	
A00-711063	2.0		1.0	
A00-712041	3.0		1.0	
A00-712059	4.0		1.0	
A00-712063	3.0		1.0	
A00-812031	4.0		1.0	
A00-812042	3.0		1.0	
A00-812049	2.0		1.0	
C2020	2.0		1.0	
C2021	3.0		1.0	
C2022	3.0		1.0	
ORC 2008	2.0		1.0	
ORC 2009	3.0		1.0	
SD98-342	4.0		1.0	
SD98-595	1.0		1.0	
SD98-1337	3.0		1.0	
SD98-1952	4.0		1.0	

PRELIMINARY TEST IIA, 2001

PROTEIN (%)

Strain	Mean 4 Tests	Ames IA	Urbana IL	Lafayette IN	Harrow Ont.
IA2021 (II)	37.3	38.5	37.6	36.3	36.7
IA2050 (I)	39.5	40.2	40.5	39.0	38.3
IA2052 (L)	39.5	40.5	41.2	38.1	38.3
Loda (SCN)	38.8	40.5	39.6	37.5	37.8
A00-711003	39.5	41.6	41.3	37.4	38.0
A00-711013	38.2	38.7	40.6	36.2	37.1
A00-711022	39.2	38.8	40.7	39.8	37.5
A00-711023	40.5	42.0	41.8	39.7	38.6
A00-711025	39.5	41.5	40.9	39.8	35.8
A00-711036	40.2	41.1	41.9	40.6	37.4
A00-711041	41.0	41.1	41.6	42.1	39.1
A00-711042	39.6	38.9	40.9	40.2	38.4
A00-711063	38.3	38.3	38.8	38.8	37.4
A00-712041	37.9	38.2	39.3	38.4	35.7
A00-712059	39.4	39.9	40.4	38.8	38.7
A00-712063	37.8	38.9	39.8	36.1	36.6
A00-812031	38.2	38.9	37.5	39.7	36.9
A00-812042	40.9	41.1	42.5	40.4	39.5
A00-812049	38.4	38.8	40.8	36.9	37.2
C2020	41.8	41.8	41.6	40.7	43.0
C2021	41.9	42.8	44.0	39.9	41.0
C2022	41.3	42.2	42.6	40.4	39.9
ORC 2008	39.1	40.2	41.1	37.4	37.8
ORC 2009	39.8	40.0	40.9	39.0	39.4
SD98-342	37.8	39.6	40.5	34.6	36.6
SD98-595	40.2	41.0	41.4	38.9	39.4
SD98-1337	38.7	40.1	41.2	37.4	36.1
SD98-1952	40.6	40.0	41.5	39.3	41.7

## PRELIMINARY TEST IIA, 2001

## OIL (%)

Strain	Mean 4 Tests	Ames IA	Urbana IL	Lafayette IN	Harrow Ont.
IA2021 (II)	23.5	22.0	24.1	24.1	23.7
IA2050 (I)	21.9	20.9	21.9	22.4	22.4
IA2052 (L)	21.9	21.0	21.5	22.9	22.1
Loda (SCN)	22.4	21.2	22.6	23.3	22.6
A00-711003	22.0	20.7	21.4	23.5	22.6
A00-711013	22.0	21.1	21.0	23.4	22.4
A00-711022	22.3	22.1	22.5	21.9	22.8
A00-711023	21.5	20.1	21.4	22.4	22.1
A00-711025	21.7	19.7	22.0	22.0	23.0
A00-711036	20.8	19.9	20.8	20.5	22.1
A00-711041	21.2	21.0	21.4	20.8	21.7
A00-711042	20.8	20.3	20.7	20.7	21.5
A00-711063	22.6	21.8	23.1	22.5	23.0
A00-712041	22.7	22.1	22.4	22.7	23.6
A00-712059	21.7	21.1	21.5	22.5	21.8
A00-712063	23.3	22.6	22.8	25.0	22.8
A00-812031	22.1	21.2	23.3	21.1	23.0
A00-812042	20.6	20.0	20.1	21.3	21.0
A00-812049	22.3	21.4	21.6	24.1	22.2
C2020	21.1	19.9	21.7	22.2	20.8
C2021	21.4	20.2	20.7	22.6	22.3
C2022	21.2	20.2	20.5	22.3	21.9
ORC 2008	22.0	20.4	21.8	23.4	22.5
ORC 2009	21.7	21.2	21.7	21.9	21.9
SD98-342	22.0	20.6	20.7	24.0	22.7
SD98-595	21.6	20.8	21.5	21.9	22.3
SD98-1337	22.1	21.0	22.4	22.4	22.7
SD98-1952	22.1	22.3	22.2	22.5	21.4

Preliminary Test IIB, 2001

	Strain	Parentage	Generation Composited	Unique Traits
1.	IA2021 (II)	Elgin 87 x Marcus	F5	
2.	IA2050 (I)	Northrup King S24-90 x A91-501002	F5	BSR
3.	IA2052 (L)	Northrup King S24-92 x Parker	F5	
4.	Loda (SCN)	Jack x IA3003	F5	SCN
5.	E99034	IA2021 x Apollo	F5	
6.	E99035	IA2021 x Apollo	F5	
7.	E99069	Colfax x Dairyland DSR-217	F5	
8.	E99072	Colfax x Dairyland DSR-217	F5	
9.	E99250	Pioneer P9281 x Northrup King S19-90	F5	
10.	E99262	A92-625002 x Northrup King S19-90	F5	
11.	E99275	Blackjack 21 x Northrup King S19-90	F5	
12.	E99301	Jack x Pioneer P9281	F5	
13.	LG97-7012	LG89-1525 x A3322	F6	
14.	LG98-1445	LG91-7431 x 9273	F6	
15.	LG98-1452	LG91-7431 x 9273	F6	
16.	LG98-1605	LG88-8958 x LG89-771	F6	
17.	LG98-3738	LG89-773 x LG91-7323	F6	
18.	U99-003022	MSBP6S4	S5	
19.	U99-003050	MSBP6S4	S5	
20.	U99-003065	MSBP6S4	S5	
21.	U99-004022	MSBP6S4	S5	
22.	U99-008051	MSBP6S4	S5	
23.	U99-011081	MSBP6S4	S5	
24.	U99-012059	MSBP6S4	S5	
25.	U99-013047	U95-2418 x IA3011	F5	
26.	U99-013059	U95-2418 x IA3011	F5	
27.	U99-035014	MSBP6S4	S5	
28.	U99-048032	MSBP6S4	S5	

**PRELIMINARY TEST IIB, 2001**  
**DESCRIPTIVE AND DISEASE DATA**

Strain	Descriptive Code	Shattering Score Manhattan	PR Lafayette		PS Lafayette	P&SB
			Race 4	Race 7	a %	n %
IA2021 (II)	WTBDYBII	2.0	R	R	26	8
IA2050 (I)	PTBDYBII	2.0	S	R	14	14
IA2052 (L)	WGBIYBfI	2.0	S	S	70	14
Loda (SCN)	PGBSYGrI	2.0	H	H	44	10
E99034	PGBSYYI	1.0	R	R	36	0
E99035	PTBSYBrI	1.0	S	R	24	4
E99069	WTTDYBII	2.0	S	R	14	2
E99072	PTTDYBII	2.0	S	S	22	8
E99250	PTBIYBII	2.0	R	R	24	4
E99262	PTBSYBII	2.0	S	R	14	0
E99275	PTTDYGrI	1.0	R	R	12	2
E99301	PTBIYBII	1.0	R	R	24	4
LG97-7012	WGTDYBfI	1.0	H	R	10	4
LG98-1445	PTBDYBII	1.0	S	S	6	4
LG98-1452	PTBDYBII	1.0	S	H	12	10
LG98-1605	WTBDYYI	2.0	S	H	4	12
LG98-3738	PTB+TSYBII	1.0	R	R	18	12
U99-003022	WTBDYBII	2.0	S	S	30	2
U99-003050	P+WTTDYBrI	1.0	H	S	26	0
U99-003065	PTBDYGrI	1.0	S	S	44	4
U99-004022	PGTDYYI	2.0	S	S	52	2
U99-008051	WTBDYBII	2.0	R	S	46	6
U99-011081	WTBIYYI	1.0	S	S	54	20
U99-012059	PTBDYBII	2.0	R	R	36	4
U99-013047	WGBDYYI	2.0	S	S	42	0
U99-013059	WGBDYYI	3.0	S	S	52	4
U99-035014	PGBDYGrI	1.0	S	S	46	0
U99-048032	PGTDYBfI	1.0	S	S	36	12



## PRELIMINARY TEST IIB, 2001

## REGIONAL SUMMARY

No. of Tests Strain	Yield 9 bu/a	Rank 9 No.	Maturity 8 Date	Lodging 9 Score	Plant Height 8 In.	Seed Size 9 g/100	Seed Quality 3 Score	Green Stem 3 Score	Composition	
									Protein 4 %	Oil 4 %
IA2021 (II)	46.1	24	9/17	1.3	29	15.1	2.2	1.7	38.1	23.0
IA2050 (I)	48.8	14	1.9	1.4	31	15.8	2.0	1.7	40.1	21.7
IA2052 (L)	48.8	14	5.4	1.6	37	14.8	1.8	2.0	40.3	21.5
Loda (SCN)	48.6	18	4.3	1.5	31	16.2	2.2	2.0	39.1	22.1
E99034	49.8	7	1.6	1.2	31	16.1	1.7	1.0	37.9	22.7
E99035	52.1	3	1.9	1.3	32	14.2	2.3	2.0	38.6	22.5
E99069	49.0	13	3.6	1.4	37	13.8	2.0	2.0	38.9	21.7
E99072	48.6	18	3.1	1.5	37	14.5	1.7	2.0	38.8	22.0
E99250	50.4	6	1.3	1.4	31	16.2	2.7	2.3	39.9	22.1
E99262	47.1	22	4.4	1.3	31	15.9	2.0	2.3	40.2	21.4
E99275	42.3	28	-2.1	1.4	33	15.7	2.2	2.3	39.1	22.1
E99301	49.8	7	1.1	1.3	32	13.7	1.5	1.3	39.9	21.7
LG97-7012	50.7	5	7.4	1.7	37	17.9	1.7	1.3	40.1	21.5
LG98-1445	54.5	1	7.1	1.6	35	14.8	1.5	2.0	38.9	22.8
LG98-1452	50.8	4	5.1	1.4	34	16.2	1.8	1.7	40.5	21.9
LG98-1605	48.8	14	3.8	1.4	32	14.7	2.2	1.3	40.4	21.3
LG98-3738	44.1	26	5.1	1.7	37	14.8	1.7	2.3	39.3	22.1
U99-003022	49.1	12	3.1	1.4	32	14.2	1.7	1.3	39.7	21.7
U99-003050	48.5	20	7.3	1.6	32	14.9	2.3	1.7	41.0	21.5
U99-003065	49.6	9	4.3	1.6	34	15.2	2.2	1.7	40.4	20.7
U99-004022	48.2	21	3.1	1.4	31	16.2	1.8	1.7	40.9	21.3
U99-008051	43.9	27	0.4	1.7	30	15.8	2.0	1.3	40.4	22.0
U99-011081	49.5	10	9.1	1.5	33	15.5	3.0	2.0	42.5	19.8
U99-012059	44.9	25	2.8	1.6	39	14.8	2.2	2.0	39.2	22.0
U99-013047	48.7	17	4.3	1.3	29	15.5	2.0	2.3	41.9	21.2
U99-013059	47.0	23	4.0	1.3	30	15.6	2.0	1.7	42.1	21.2
U99-035014	52.7	2	7.0	1.5	37	16.1	2.0	1.7	39.9	21.2
U99-048032	49.4	11	8.6	1.5	33	15.1	2.0	2.3	39.8	21.5

121.5 Days After Planting

PRELIMINARY TEST IIB, 2001

YIELD (bu/a)

Strain	Mean 9 Tests	Ames IA	Rippey IA	Urbana IL	Lafay- ette IN	Ingham County MI
IA2021 (II)	46.1	55.8	53.9	38.0	34.6	44.6
IA2050 (I)	48.8	59.4	46.3	42.3	37.1	51.1
IA2052 (L)	48.8	58.2	41.2	46.7	39.3	45.9
Loda (SCN)	48.6	52.2	48.7	50.5	41.2	60.0
E99034	49.8	55.9	51.7	34.0	43.9	52.8
E99035	52.1	57.9	52.9	39.6	39.3	59.7
E99069	49.0	60.3	49.9	39.6	46.1	49.0
E99072	48.6	48.3	49.9	47.1	45.4	49.1
E99250	50.4	57.6	53.6	35.4	42.7	44.9
E99262	47.1	60.8	48.0	40.3	36.3	49.9
E99275	42.3	57.2	42.8	44.2	36.2	19.5
E99301	49.8	54.6	51.5	40.8	40.6	54.7
LG97-7012	50.7	53.6	53.4	53.3	41.6	52.1
LG98-1445	54.5	70.3	49.6	50.8	48.0	51.4
LG98-1452	50.8	58.6	51.5	50.8	45.9	41.5
LG98-1605	48.8	51.2	48.0	48.9	45.8	51.3
LG98-3738	44.1	54.8	46.7	45.7	34.8	24.5
U99-003022	49.1	52.0	42.7	48.3	42.3	53.3
U99-003050	48.5	50.6	44.4	43.6	47.3	32.7
U99-003065	49.6	55.3	48.1	46.6	45.1	58.8
U99-004022	48.2	58.6	46.2	46.2	32.7	52.1
U99-008051	43.9	50.1	54.0	38.4	34.8	41.6
U99-011081	49.5	54.7	43.1	49.4	46.7	45.7
U99-012059	44.9	51.4	51.1	39.1	35.5	50.3
U99-013047	48.7	56.7	52.7	53.5	41.5	40.0
U99-013059	47.0	66.2	49.7	49.4	44.3	26.3
U99-035014	52.7	62.4	51.2	52.7	40.6	46.0
U99-048032	49.4	55.1	47.6	41.7	40.8	58.6
C.V. (%)		8.5	7.2	10.1	8.7	8.8
L.S.D. (5%)		9.9	7.2	9.3	7.3	11.2
Row Sp. (In.)		27	27	30	24	15
Rows/Plot		4	4	4	4	6
Reps		2	2	2	2	2

PRELIMINARY TEST IIB, 2001

YIELD (bu/a)

Strain	Beemer NE	Goehner NE	Harrow Ont.	Beres- ford SD
IA2021 (II)	40.3	70.4	37.8	40.0
IA2050 (I)	41.3	74.5	35.6	51.7
IA2052 (L)	44.6	81.6	32.5	49.5
Loda (SCN)	40.9	64.1	33.0	47.1
E99034	43.2	76.5	37.8	52.8
E99035	42.9	77.5	47.2	51.8
E99069	41.1	72.9	36.3	46.2
E99072	41.4	67.3	38.1	50.8
E99250	44.0	73.0	44.4	57.9
E99262	38.0	65.3	31.9	53.2
E99275	40.2	65.2	29.3	45.9
E99301	43.5	71.0	40.6	50.7
LG97-7012	43.5	68.7	38.1	51.8
LG98-1445	48.4	80.1	38.3	54.1
LG98-1452	48.6	78.3	34.9	47.0
LG98-1605	42.7	68.0	34.7	48.3
LG98-3738	42.4	66.6	40.8	40.9
U99-003022	45.9	69.1	40.9	47.1
U99-003050	48.5	82.0	37.9	49.4
U99-003065	53.2	67.4	31.7	40.0
U99-004022	42.4	74.2	37.0	44.8
U99-008051	40.3	64.6	26.4	44.8
U99-011081	45.7	71.7	39.6	49.3
U99-012059	41.5	65.6	36.8	32.9
U99-013047	42.7	61.4	37.8	52.0
U99-013059	43.7	66.2	35.1	42.4
U99-035014	48.5	78.5	41.6	53.0
U99-048032	43.5	76.6	30.2	50.6
C.V. (%)	5.9	6.1	9.3	9.2
L.S.D. (5%)	ns	9.5	4.5	8.8
Row Sp. (In.)	30	30	18	30
Rows/Plot	4	4	5	4
Reps	2	2	2	2

## PRELIMINARY TEST IIB, 2001

## YIELD RANK

Strain	Yield Rank	Ames IA	Rippey IA	Urbana IL	Lafayette IN	East Lansing MI
IA2021 (II)	24	15	2	26	27	21
IA2050 (I)	14	6	22	18	21	12
IA2052 (L)	14	9	28	12	19	18
Loda (SCN)	18	22	16	6	15	1
E99034	7	14	7	28	10	7
E99035	3	10	5	23	19	2
E99069	13	5	12	23	4	16
E99072	18	28	12	11	7	15
E99250	6	11	3	27	11	20
E99262	22	4	18	21	22	14
E99275	28	12	26	16	23	28
E99301	7	20	8	20	17	5
LG97-7012	5	21	4	2	13	8
LG98-1445	1	1	15	5	1	10
LG98-1452	4	7	8	5	5	23
LG98-1605	14	25	18	9	6	11
LG98-3738	26	18	21	15	25	27
U99-003022	12	23	27	10	12	6
U99-003050	20	26	24	17	2	25
U99-003065	9	16	17	13	8	3
U99-004022	21	7	23	14	28	9
U99-008051	27	27	1	25	25	22
U99-011081	10	19	25	7	3	19
U99-012059	25	24	11	24	24	13
U99-013047	17	13	6	1	14	24
U99-013059	23	2	14	8	9	26
U99-035014	2	3	10	3	17	17
U99-048032	11	17	20	19	16	4

PRELIMINARY TEST IIB, 2001

YIELD RANK

Strain	Beemer NE	Goehner NE	Harrow Ont.	Beres- ford SD
IA2021 (II)	25	15	13	26
IA2050 (I)	22	9	18	9
IA2052 (L)	8	2	23	13
Loda (SCN)	24	27	22	17
E99034	14	8	14	5
E99035	15	6	1	7
E99069	23	12	17	20
E99072	21	20	10	10
E99250	9	11	2	1
E99262	28	24	24	3
E99275	27	25	27	21
E99301	12	14	6	11
LG97-7012	12	17	9	7
LG98-1445	5	3	8	2
LG98-1452	2	5	20	19
LG98-1605	16	18	21	16
LG98-3738	18	21	5	25
U99-003022	6	16	4	17
U99-003050	4	1	11	14
U99-003065	1	19	25	26
U99-004022	18	10	15	22
U99-008051	25	26	28	22
U99-011081	7	13	7	15
U99-012059	20	23	16	28
U99-013047	16	28	12	6
U99-013059	10	22	19	24
U99-035014	4	4	3	4
U99-048032	12	7	26	12

## PRELIMINARY TEST IIB, 2001

## MATURITY (date)

Strain	Mean 8 Tests	Ames IA	Rippey IA	Urbana IL	Lafay- ette IN	East Lansing MI
IA2021 (II)	9/17	9/14		9/3	9/9	9/13
IA2050 (I)	1.9	4		1	+4	4
IA2052 (L)	5.4	12		4	+8	10
Loda (SCN)	4.3	6		4	+5	12
E99034	1.6	4		0	+3	6
E99035	1.9	6		1	+2	6
E99069	3.6	8		1	+9	5
E99072	3.1	5		2	+6	6
E99250	1.3	6		-1	+5	2
E99262	4.4	4		5	+8	6
E99275	-2.1	1		-1	0	0
E99301	1.1	2		1	+1	3
LG97-7012	7.4	9		11	+9	18
LG98-1445	7.1	12		9	+9	13
LG98-1452	5.1	11		7	+10	9
LG98-1605	3.8	4		6	+8	12
LG98-3738	5.1	8		8	+7	11
U99-003022	3.1	7		3	+6	7
U99-003050	7.3	13		7	+13	7
U99-003065	4.3	10		2	+8	6
U99-004022	3.1	7		3	+3	9
U99-008051	0.4	2		-2	-1	0
U99-011081	9.1	15		11	+14	15
U99-012059	2.8	6		1	+2	5
U99-013047	4.3	7		4	+9	10
U99-013059	4.0	8		3	+7	9
U99-035014	7.0	11		10	+14	16
U99-048032	8.6	13		7	+9	17
Date Planted	5/19	5/10		5/1	5/15	5/8
Days to Mature	122	127		125	117	128

PRELIMINARY TEST IIB, 2001

MATURITY (date)

Strain	Beemer NE	Goehner NE	Harrow Ont.	Beres- ford SD
IA2021 (II)	10/1	9/18	10/3	9/20
IA2050 (I)	-1	4	0	3
IA2052 (L)	2	7	3	5
Loda (SCN)	1	4	2	5
E99034	0	2	2	-1
E99035	0	1	0	1
E99069	2	5	1	7
E99072	1	5	-2	8
E99250	0	-1	-1	5
E99262	5	4	1	10
E99275	-4	-5	-6	-2
E99301	1	0	-1	3
LG97-7012	2	5	6	8
LG98-1445	3	9	4	7
LG98-1452	2	5	0	7
LG98-1605	-1	3	2	4
LG98-3738	1	8	1	4
U99-003022	2	1	1	4
U99-003050	5	11	3	12
U99-003065	3	4	1	8
U99-004022	1	5	2	-2
U99-008051	0	0	0	3
U99-011081	4	10	8	10
U99-012059	1	5	0	4
U99-013047	0	3	2	8
U99-013059	1	2	3	6
U99-035014	5	11	3	11
U99-048032	6	12	3	11
Date Planted	6/7	5/25	6/11	5/14
Days to Mature	116	116	114	129

PRELIMINARY TEST IIB, 2001

LODGING (score)

Strain	Mean 9 Tests	Ames IA	Riphey IA	Urbana IL	Lafayette IN	East Lansing MI
IA2021 (II)	1.3	2.0	1.8	1.5	1.0	1.0
IA2050 (I)	1.4	1.8	1.5	1.5	1.0	1.0
IA2052 (L)	1.6	3.3	1.5	1.5	1.5	1.5
Loda (SCN)	1.5	1.8	1.5	1.5	1.3	2.0
E99034	1.2	1.8	1.3	1.3	1.0	1.0
E99035	1.3	2.0	1.5	1.5	1.0	1.5
E99069	1.4	2.0	1.5	1.5	1.3	1.5
E99072	1.5	1.5	1.8	1.5	1.0	2.0
E99250	1.4	2.0	1.5	1.8	1.0	1.5
E99262	1.3	1.8	1.5	1.5	1.0	1.0
E99275	1.4	2.3	1.5	1.5	1.0	1.0
E99301	1.3	1.5	1.5	1.8	1.0	1.0
LG97-7012	1.7	2.0	1.5	2.0	1.5	2.0
LG98-1445	1.6	2.3	1.8	1.8	1.5	1.5
LG98-1452	1.4	2.0	1.8	1.8	1.3	1.0
LG98-1605	1.4	1.5	1.5	1.5	1.8	1.5
LG98-3738	1.7	2.3	2.0	2.3	1.8	1.5
U99-003022	1.4	1.8	1.8	1.5	1.3	1.0
U99-003050	1.6	2.0	1.5	1.5	1.5	1.5
U99-003065	1.6	2.0	1.5	1.8	1.8	2.0
U99-004022	1.4	1.8	1.3	1.5	1.0	2.0
U99-008051	1.7	2.0	1.8	1.8	1.0	2.0
U99-011081	1.5	2.3	1.3	1.5	1.8	1.0
U99-012059	1.6	2.0	2.0	1.8	1.3	1.5
U99-013047	1.3	1.5	1.3	1.5	1.0	1.0
U99-013059	1.3	1.5	1.3	1.3	1.0	2.0
U99-035014	1.5	2.3	1.8	1.5	1.8	1.5
U99-048032	1.5	2.0	1.8	1.5	1.0	2.0



PRELIMINARY TEST IIB, 2001

LODGING (score)

Strain	Beemer NE	Goehner NE	Harrow Ont.	Beres- ford SD
IA2021 (II)	1.0	1.0	1.0	1.0
IA2050 (I)	1.0	1.0	1.5	2.0
IA2052 (L)	1.0	1.0	1.0	2.0
Loda (SCN)	1.0	1.0	1.0	2.0
E99034	1.0	1.0	1.0	1.0
E99035	1.0	1.0	1.0	1.0
E99069	1.0	1.0	1.0	2.0
E99072	1.0	1.5	1.0	2.0
E99250	1.0	1.0	1.0	2.0
E99262	1.0	1.0	1.0	2.0
E99275	1.0	1.0	1.0	2.0
E99301	1.0	1.0	1.0	2.0
LG97-7012	1.0	1.0	2.0	2.0
LG98-1445	1.0	1.5	1.0	2.0
LG98-1452	1.0	1.0	1.0	2.0
LG98-1605	1.0	1.0	1.0	2.0
LG98-3738	1.0	1.0	1.0	2.0
U99-003022	1.0	1.0	1.0	2.0
U99-003050	1.0	1.0	1.0	3.0
U99-003065	1.0	1.0	1.5	2.0
U99-004022	1.0	1.0	1.0	2.0
U99-008051	1.0	1.0	2.0	3.0
U99-011081	1.0	1.0	1.5	2.0
U99-012059	1.0	1.0	1.5	2.0
U99-013047	1.0	1.0	1.0	2.0
U99-013059	1.0	1.0	1.0	2.0
U99-035014	1.0	1.0	1.0	2.0
U99-048032	1.0	1.0	1.0	2.0

PRELIMINARY TEST IIB, 2001

PLANT HEIGHT (inches)

Strain	Mean 8 Tests	Ames IA	Rippey IA	Urbana IL	Lafay- ette IN	East Lansing MI
IA2021 (II)	29	33	34	29	31	28
IA2050 (I)	31	34	35	29	30	29
IA2052 (L)	37	45	37	35	40	33
Loda (SCN)	31	32	35	33	31	33
E99034	31	34	34	29	31	32
E99035	32	35	36	30	32	33
E99069	37	41	41	34	38	37
E99072	37	40	43	38	39	39
E99250	31	34	36	29	33	30
E99262	31	32	35	29	33	32
E99275	33	35	36	32	36	30
E99301	32	36	37	29	34	31
LG97-7012	37	38	40	37	35	37
LG98-1445	35	39	36	35	36	34
LG98-1452	34	36	36	37	36	32
LG98-1605	32	31	36	32	34	31
LG98-3738	37	42	41	39	36	37
U99-003022	32	38	36	32	32	31
U99-003050	32	36	37	33	33	26
U99-003065	34	39	36	34	36	33
U99-004022	31	36	34	34	28	30
U99-008051	30	33	35	30	30	28
U99-011081	33	39	33	36	35	32
U99-012059	39	42	45	39	38	37
U99-013047	29	33	32	32	29	26
U99-013059	30	35	31	31	30	28
U99-035014	37	41	42	35	38	34
U99-048032	33	36	34	33	33	33

PRELIMINARY TEST IIB, 2001

PLANT HEIGHT (inches)

Strain	Beemer NE	Goehner NE	Harrow Ont.	Beres- ford SD
IA2021 (II)		32	21	28
IA2050 (I)		32	22	34
IA2052 (L)		41	22	40
Loda (SCN)		26	21	35
E99034		32	20	34
E99035		34	22	34
E99069		39	23	42
E99072		35	23	43
E99250		33	18	36
E99262		30	19	36
E99275		36	21	40
E99301		30	20	38
LG97-7012		38	24	45
LG98-1445		36	22	38
LG98-1452		35	22	37
LG98-1605		32	20	38
LG98-3738		33	27	42
U99-003022		34	21	33
U99-003050		36	21	36
U99-003065		34	21	35
U99-004022		32	19	34
U99-008051		32	19	36
U99-011081		35	23	35
U99-012059		42	26	40
U99-013047		30	18	33
U99-013059		30	19	34
U99-035014		40	28	41
U99-048032		35	23	34

PRELIMINARY TEST IIB, 2001

SEED SIZE (g/100)

Strain	Mean 9 Tests	Ames IA	Rippey IA	Urbana IL	Lafay- ette IN	East Lansing MI
IA2021 (II)	15.1	14.9	15.2	14.1	14.2	17.1
IA2050 (I)	15.8	15.2	15.2	14.7	15.5	16.7
IA2052 (L)	14.8	14.7	13.9	14.1	14.7	16.4
Loda (SCN)	16.2	15.4	15.8	16.4	14.9	19.5
E99034	16.1	15.4	15.9	14.2	16.1	18.5
E99035	14.2	14.1	13.8	13.3	13.5	16.4
E99069	13.8	13.5	12.9	12.8	12.6	15.9
E99072	14.5	13.7	14.2	13.7	13.5	16.6
E99250	16.2	16.8	16.2	14.3	14.5	17.3
E99262	15.9	15.8	15.0	14.6	14.0	18.4
E99275	15.7	15.9	14.9	15.0	14.5	18.7
E99301	13.7	12.9	13.2	12.1	12.7	15.8
LG97-7012	17.9	17.3	17.1	17.7	18.5	21.0
LG98-1445	14.8	14.6	14.0	13.2	14.8	16.9
LG98-1452	16.2	15.7	15.5	14.9	16.2	18.5
LG98-1605	14.7	13.6	13.9	13.3	15.5	17.2
LG98-3738	14.8	14.1	13.9	14.0	14.3	17.8
U99-003022	14.2	13.6	13.6	13.2	14.3	16.5
U99-003050	14.9	14.8	14.1	12.9	16.4	17.8
U99-003065	15.2	15.4	14.4	13.4	16.6	16.3
U99-004022	16.2	15.5	15.8	15.7	15.1	18.4
U99-008051	15.8	16.1	16.5	15.2	14.5	17.2
U99-011081	15.5	14.5	14.5	14.7	17.2	17.2
U99-012059	14.8	14.6	14.5	13.3	14.0	17.8
U99-013047	15.5	14.6	15.8	15.0	16.2	16.2
U99-013059	15.6	15.4	14.9	13.7	16.4	17.2
U99-035014	16.1	15.3	15.7	15.1	17.3	17.5
U99-048032	15.1	14.3	14.6	14.1	14.9	17.9

PRELIMINARY TEST IIB, 2001

SEED SIZE (g/100)

Strain	Beemer NE	Goehner NE	Harrow Ont.	Beres- ford SD
IA2021 (II)	15.2	15.8	15.9	13.8
IA2050 (I)	15.8	16.5	15.6	16.7
IA2052 (L)	15.1	15.1	14.4	14.5
Loda (SCN)	15.2	16.7	16.5	15.1
E99034	15.5	16.1	16.6	17.0
E99035	13.4	14.4	15.5	13.8
E99069	13.7	13.5	13.7	15.5
E99072	13.7	14.7	14.5	16.0
E99250	16.9	16.7	16.4	16.4
E99262	16.5	15.1	16.1	17.6
E99275	15.4	15.9	16.0	14.8
E99301	13.6	13.5	14.8	15.0
LG97-7012	16.5	17.1	17.4	18.4
LG98-1445	13.7	15.1	16.1	15.1
LG98-1452	15.8	16.8	16.4	16.0
LG98-1605	14.0	15.0	14.9	14.6
LG98-3738	14.5	15.2	15.2	14.5
U99-003022	12.7	13.6	14.9	15.0
U99-003050	14.2	14.4	15.6	14.3
U99-003065	15.1	15.3	14.9	15.6
U99-004022	15.7	16.6	16.4	17.0
U99-008051	15.0	15.3	15.5	16.6
U99-011081	14.5	14.9	16.4	15.7
U99-012059	14.5	14.4	16.2	13.9
U99-013047	15.8	14.5	16.6	15.1
U99-013059	15.2	14.2	17.3	16.5
U99-035014	15.7	15.8	16.4	16.1
U99-048032	13.7	15.5	15.0	16.1

## PRELIMINARY TEST IIB, 2001

## SEED QUALITY (score)

Strain	Mean 3 Tests	Ames IA	Ripsey IA	Urbana IL	Lafayette IN	East Lansing MI
IA2021 (II)	2.2			1.5	2.0	
IA2050 (I)	2.0			2.0	1.0	
IA2052 (L)	1.8			1.5	1.0	
Loda (SCN)	2.2			2.5	1.0	
E99034	1.7			2.0	1.0	
E99035	2.3			2.0	1.0	
E99069	2.0			1.0	1.0	
E99072	1.7			1.0	1.0	
E99250	2.7			2.0	3.0	
E99262	2.0			2.0	1.0	
E99275	2.2			1.5	1.0	
E99301	1.5			1.5	1.0	
LG97-7012	1.7			2.0	1.0	
LG98-1445	1.5			1.5	1.0	
LG98-1452	1.8			1.5	1.0	
LG98-1605	2.2			1.5	1.0	
LG98-3738	1.7			1.0	1.0	
U99-003022	1.7			2.0	1.0	
U99-003050	2.3			2.0	1.0	
U99-003065	2.2			1.5	1.0	
U99-004022	1.8			1.5	1.0	
U99-008051	2.0			2.0	1.0	
U99-011081	3.0			3.0	1.0	
U99-012059	2.2			2.5	1.0	
U99-013047	2.0			2.0	1.0	
U99-013059	2.0			2.0	1.0	
U99-035014	2.0			2.0	1.0	
U99-048032	2.0			2.0	1.0	

PRELIMINARY TEST IIB, 2001

SEED QUALITY (score)

Strain	Beemer NE	Goehner NE	Harrow Ont.	Beres- ford SD
IA2021 (II)				3.0
IA2050 (I)				3.0
IA2052 (L)				3.0
Loda (SCN)				3.0
E99034				2.0
E99035				4.0
E99069				4.0
E99072				3.0
E99250				3.0
E99262				3.0
E99275				4.0
E99301				2.0
LG97-7012				2.0
LG98-1445				2.0
LG98-1452				3.0
LG98-1605				4.0
LG98-3738				3.0
U99-003022				2.0
U99-003050				4.0
U99-003065				4.0
U99-004022				3.0
U99-008051				3.0
U99-011081				5.0
U99-012059				3.0
U99-013047				3.0
U99-013059				3.0
U99-035014				3.0
U99-048032				3.0

PRELIMINARY TEST IIB, 2001

GREEN STEM (score)

Strain	Mean 3 Tests	Ames IA	Rippey IA	Urbana IL	Lafay- ette IN	East Lansing MI
IA2021 (II)	1.7	1.0				
IA2050 (I)	1.7	1.0				
IA2052 (L)	2.0	2.0				
Loda (SCN)	2.0	1.0				
E99034	1.0	1.0				
E99035	2.0	2.0				
E99069	2.0	2.0				
E99072	2.0	1.0				
E99250	2.3	2.0				
E99262	2.3	3.0				
E99275	2.3	2.0				
E99301	1.3	2.0				
LG97-7012	1.3	2.0				
LG98-1445	2.0	2.0				
LG98-1452	1.7	2.0				
LG98-1605	1.3	1.0				
LG98-3738	2.3	2.0				
U99-003022	1.3	2.0				
U99-003050	1.7	2.0				
U99-003065	1.7	2.0				
U99-004022	1.7	2.0				
U99-008051	1.3	1.0				
U99-011081	2.0	2.0				
U99-012059	2.0	2.0				
U99-013047	2.3	2.0				
U99-013059	1.7	1.0				
U99-035014	1.7	2.0				
U99-048032	2.3	2.0				



PRELIMINARY TEST IIB, 2001

GREEN STEM (score)

Strain	Beemer NE	Goehner NE	Harrow Ont.	Beres- ford SD
IA2021 (II)	3.0		1.0	
IA2050 (I)	3.0		1.0	
IA2052 (L)	3.0		1.0	
Loda (SCN)	4.0		1.0	
E99034	1.0		1.0	
E99035	3.0		1.0	
E99069	3.0		1.0	
E99072	4.0		1.0	
E99250	4.0		1.0	
E99262	3.0		1.0	
E99275	4.0		1.0	
E99301	1.0		1.0	
LG97-7012	1.0		1.0	
LG98-1445	3.0		1.0	
LG98-1452	2.0		1.0	
LG98-1605	2.0		1.0	
LG98-3738	4.0		1.0	
U99-003022	1.0		1.0	
U99-003050	2.0		1.0	
U99-003065	2.0		1.0	
U99-004022	2.0		1.0	
U99-008051	2.0		1.0	
U99-011081	3.0		1.0	
U99-012059	3.0		1.0	
U99-013047	4.0		1.0	
U99-013059	3.0		1.0	
U99-035014	2.0		1.0	
U99-048032	4.0		1.0	

## PRELIMINARY TEST IIB, 2001

## PROTEIN (%)

Strain	Mean 4 Tests	Ames IA	Urbana IL	Lafayette IN	Harrow Ont.
IA2021 (II)	38.1	38.2	39.1	38.1	37.0
IA2050 (I)	40.1	40.1	41.1	40.0	39.5
IA2052 (L)	40.3	40.9	40.9	40.0	39.5
Loda (SCN)	39.1	40.3	40.0	38.6	37.4
E99034	37.9	39.0	38.1	37.5	36.9
E99035	38.6	39.4	39.7	37.7	37.7
E99069	38.9	38.7	39.0	40.0	37.8
E99072	38.8	38.7	39.0	39.3	38.1
E99250	39.9	40.3	39.3	40.3	39.7
E99262	40.2	39.9	41.3	40.2	39.3
E99275	39.1	39.6	39.2	39.6	37.9
E99301	39.9	40.9	39.2	39.8	39.8
LG97-7012	40.1	39.4	41.1	39.7	40.1
LG98-1445	38.9	38.9	37.8	39.3	39.8
LG98-1452	40.5	39.3	41.8	39.7	41.4
LG98-1605	40.4	39.5	40.9	41.1	39.9
LG98-3738	39.3	40.1	39.8	39.5	37.8
U99-003022	39.7	40.4	39.8	40.0	38.6
U99-003050	41.0	41.8	41.5	40.0	40.7
U99-003065	40.4	41.1	40.4	39.7	40.2
U99-004022	40.9	41.2	41.3	40.8	40.4
U99-008051	40.4	40.5	41.1	39.8	40.4
U99-011081	42.5	41.4	44.0	42.0	42.7
U99-012059	39.2	38.3	40.3	38.6	39.5
U99-013047	41.9	41.4	42.1	42.4	41.6
U99-013059	42.1	41.6	41.6	42.8	42.2
U99-035014	39.9	39.5	40.7	39.3	40.2
U99-048032	39.8	40.5	40.2	38.2	40.1

## PRELIMINARY TEST IIB, 2001

## OIL (%)

Strain	Mean 4 Tests	Ames IA	Urbana IL	Lafayette IN	Harrow Ont.
IA2021 (II)	23.0	22.3	23.3	23.1	23.4
IA2050 (I)	21.7	21.1	21.8	21.8	22.2
IA2052 (L)	21.5	20.9	21.6	21.8	21.6
Loda (SCN)	22.1	20.9	22.1	22.5	22.8
E99034	22.7	21.9	23.1	23.1	22.7
E99035	22.5	21.0	22.6	23.5	22.8
E99069	21.7	21.2	22.1	21.6	22.1
E99072	22.0	21.5	22.4	21.7	22.5
E99250	22.1	20.9	23.1	22.2	22.0
E99262	21.4	20.8	21.1	21.4	22.1
E99275	22.1	21.1	22.5	22.0	22.9
E99301	21.7	20.6	22.6	21.9	21.8
LG97-7012	21.5	21.3	21.7	22.0	21.0
LG98-1445	22.8	21.7	23.9	23.3	22.2
LG98-1452	21.9	21.8	21.8	22.5	21.5
LG98-1605	21.3	20.9	21.7	21.8	20.9
LG98-3738	22.1	21.1	22.4	22.2	22.8
U99-003022	21.7	20.4	22.2	21.9	22.2
U99-003050	21.5	20.2	21.8	22.5	21.4
U99-003065	20.7	19.9	20.8	21.2	21.0
U99-004022	21.3	20.3	21.8	21.8	21.2
U99-008051	22.0	21.2	22.4	22.5	22.1
U99-011081	19.8	19.2	19.5	20.6	19.9
U99-012059	22.0	21.6	21.8	22.7	22.0
U99-013047	21.2	20.7	21.4	21.3	21.2
U99-013059	21.2	20.7	22.0	21.0	21.1
U99-035014	21.2	21.2	21.5	21.5	20.7
U99-048032	21.5	20.7	21.9	22.3	20.9

**Uniform Test III, 2001**

	Strain	Parentage	Previous Testing	Generation Composited	Unique Traits
1.	IA3010 (III)	Jacques J285 x Northrup King S29-39	5	F5	
2.	IA2052 (II)	Northrup King S24-92 x Parker	1	F5	
3.	IA3014 (SCN)	LN90-4366 x IA3005	1	?	SCN
4.	Macon (L)	Sherman x Resnik	8	F5	
5.	NE3001	Colfax x A91-701035	3	F4	determinate
6.	Stout (dt1)	Sprite 87 x HC85-6577	1	F5	dt1
7.	A99-217006	Dairyland DSR-365 x AP1995	PTIIA	F5	
8.	A99-315011	A94-572029 x Pioneer P9321	PTIIIA	F5	
9.	A99-315020	Dairyland DSR-365 x Pioneer P9321	PTIIIA	F5	
10.	A99-315026	Dairyland DSR-365 x Pioneer P9381	PTIIIA	F5	
11.	HC94-96PR	HC85-606 (4) x HC74-634 REBC	3	BC3F3	Rps1-k, dt1
12.	HC94-1065	HC85-607 x HC78-676 BC	2	F5	dt1
13.	HC94-1946	Charleston x HC74-634 REBC	1	F4	dt1
14.	HC95-634	HC85-603 x Sprite (Rps4)	PTIIIB	F5	dt1
15.	HC95-1495	Hobbit 87 x HC87-5844	PTIIIB	F5	dt1
16.	HC96-45PR	HC85-6723 (4) x HC78-676 BC	PTIIIB	BC3F3	Rps1k, dt1
17.	HC96-513	Charleston BC x HC88-813	PTIIIB	F5	dt1
18.	HF98-023	Chapman x Probst	PTIIIB	F5	Rps1k, Rps3a
19.	LN97-14727	LN90-4366 x Cisne	PTIIIB	F5	
20.	LN97-14868	LN90-4366 x Cisne	PTIIIB	F5	
21.	LN97-14926	LN90-4366 x Cisne	PTIIB	F5	
22.	U97-201128	NE3399 x UPIFe-95-9	1	F5	
23.	U97-207134	MSBP4F6	UTII	F7	
24.	U98-200912	U94-2306 x U94-3518	PTIIA	F4	
25.	U98-201113	U94-3412 x U94-3518	PTIIA	F4	
26.	U98-307162	U94-3412 x A94-774021	PTIIIA	F5	
27.	U98-307917	U94-2306 x A92-525014	PTIIIA	F5	
28.	U98-310860	IA3005 x Bell	SCN PTIII	F4	SCN

**UNIFORM TEST III, 2001**  
**DESCRIPTIVE AND DISEASE DATA**

Strain	Descriptive Code	<u>Chlorosis Score</u>	<u>SDS Data</u>		<u>Shattering</u>
		Yellow Medicine Co.	Carmi DX Score	Pontiac DX Score	Score Manhattan
IA3010 (III)	PTTDYBI+GrI	5.0		7.8	1.0
IA2052 (II)	WGBIYBfI	4.8		0.2	2.0
IA3014 (SCN)	WTTDYBII	5.0		0.2	1.0
Macon (L)	WTBIYBII	4.8	1.8		1.0
NE3001	WGTSYBfD	4.5		4.3	2.0
Stout (dt1)	WTBIYBID	4.0		0.1	1.0
A99-217006	WT+GBDYBII	4.8		0.5	2.0
A99-315011	PGBDYBII	4.3		7.3	1.0
A99-315020	WGBDYBI+BrI	4.5		0.6	1.0
A99-315026	WGTDYBII	4.5		1.4	1.0
HC94-96PR	WTTSYBID	5.0	7.0		1.0
HC94-1065	PTBSYBID	4.5	3.0		1.0
HC94-1946	WTBSYBID	4.0	4.8		1.0
HC95-634	WTTDYBID	5.0	3.2		1.0
HC95-1495	WTTIYBrD	4.0		0.7	1.0
HC96-45PR	WTBIYBID	5.0	3.9		1.0
HC96-513	WTTDYBID	4.5	3.3		1.0
HF98-023	PTBDYBII	5.0		9.0	1.0
LN97-14727	WTBDYBII	4.0	3.7		1.0
LN97-14868	WTTDYBII	4.3		0.6	1.0
LN97-14926	PTTDYBII	4.8		0.7	1.0
U97-201128	WGBDYBII	4.8		2.4	2.0
U97-207134	WTTDYBrI	5.0		0.3	3.0
U98-200912	WGBDYBII	4.8		7.7	1.0
U98-201113	WTBDYBII	4.5		0.4	1.0
U98-307162	PTTDYBrI	3.8	4.3		1.0
U98-307917	WGBDYBII	5.0	2.4		1.0
U98-310860	WTBIYBII	4.3		1.5	1.0

UNIFORM TEST III, 2001

DISEASE DATA

Strain	PR Lafayette		EE Vincennes	PS	P&SB
	Race 4	Race 7	Susceptible vs Resistant	a %	n %
IA3010 (III)	S	R	susceptible	18	8
IA2052 (II)	S	S	? lf. sym.	70	14
IA3014 (SCN)	S	R	susceptible	50	12
Macon (L)	S	S	susceptible	26	14
NE3001	H	R	? lf. sym.	20	8
Stout (dt1)	S	R	resistant	12	16
A99-217006	H	R	? lf. sym.	18	4
A99-315011	S	S	susceptible	20	4
A99-315020	S	R	? lf. sym.	12	4
A99-315026	S	S	? lf. sym.	6	2
HC94-96PR	R	R	? lf. sym.	2	0
HC94-1065	R	R	resistant	10	0
HC94-1946	H	S	resistant	2	2
HC95-634	R	R	susceptible	8	0
HC95-1495	R	R	resistant	2	0
HC96-45PR	R	R	resistant	16	0
HC96-513	H	S	resistant	0	0
HF98-023	R	R	resistant	12	0
LN97-14727	R	R	susceptible	10	0
LN97-14868	R	R	susceptible	8	2
LN97-14926	R	R	susceptible	0	2
U97-201128	S	S	susceptible	24	0
U97-207134	R	S	resistant	14	0
U98-200912	S	R	susceptible	60	2
U98-201113	S	S	resistant	20	2
U98-307162	S	R	? lf. sym.	6	2
U98-307917	S	S	susceptible	24	2
U98-310860	H	H	susceptible	32	4

UNIFORM TEST III, 2001

REGIONAL SUMMARY

No. of Tests Strain	Yield 20 bu/a	Rank 20 No.	Maturity 18 Date	Lodging 21 Score	Plant Height 19 In.	Seed Size 19 g/100	Seed Quality 13 Score	Green Stem 7 Score	Composition	
									Protein 4 %	Oil 4 %
IA3010 (III)	48.3	22	9/23	1.1	28	14.3	1.9	1.6	39.0	21.2
IA2052 (II)	47.6	24	-5.2	1.4	33	14.4	1.9	2.0	40.1	21.8
IA3014 (SCN)	53.7	9	-1.2	1.6	35	14.0	1.8	2.0	39.7	21.3
Macon (L)	54.1	8	2.8	1.5	33	15.8	1.7	2.7	40.7	21.0
NE3001	50.8	18	-2.1	1.1	21	16.8	2.0	1.7	38.7	22.5
Stout (dt1)	47.9	23	-0.7	1.3	22	16.0	1.7	2.0	40.2	21.8
A99-217006	52.0	12	-3.5	1.5	35	13.6	1.8	2.0	39.7	20.9
A99-315011	55.1	5	0.6	1.4	32	15.1	1.7	2.4	41.7	20.5
A99-315020	54.2	7	-0.4	1.5	34	13.3	1.9	1.9	41.0	20.6
A99-315026	56.3	2	-0.5	1.2	31	15.0	1.7	2.1	39.2	22.0
HC94-96PR	51.7	13	0.4	1.2	22	14.6	1.5	2.6	39.3	22.2
HC94-1065	54.3	6	1.3	1.2	21	14.8	1.7	2.3	38.7	22.1
HC94-1946	49.7	20	1.7	1.3	22	14.2	1.3	2.0	39.9	21.6
HC95-634	44.7	28	1.4	1.1	20	14.8	1.5	2.5	40.2	21.3
HC95-1495	45.6	26	-0.8	1.1	19	13.8	1.5	2.1	39.8	22.2
HC96-45PR	45.9	25	2.7	1.3	21	15.4	1.7	2.5	41.4	21.5
HC96-513	50.4	19	0.7	1.2	21	16.7	1.6	2.7	39.1	22.2
HF98-023	52.8	11	-1.2	1.5	36	14.4	1.7	2.3	40.9	21.0
LN97-14727	51.7	13	1.3	1.9	33	14.6	1.6	2.1	41.5	20.2
LN97-14868	53.1	10	0.7	1.6	32	14.8	1.8	1.9	41.2	20.6
LN97-14926	51.2	16	-2.3	1.6	32	15.2	2.0	2.1	40.8	21.3
U97-201128	55.5	3	0.2	1.4	36	14.7	1.5	2.0	41.1	20.9
U97-207134	45.4	27	-5.7	1.3	30	14.6	2.2	1.9	41.5	21.0
U98-200912	51.2	16	-1.8	1.3	32	14.0	1.8	1.7	41.9	20.8
U98-201113	49.6	21	-1.4	1.3	31	14.5	1.9	1.7	40.2	21.2
U98-307162	55.2	4	0.4	1.5	31	14.4	1.6	2.2	39.6	21.3
U98-307917	56.6	1	1.2	1.4	34	14.6	1.8	2.1	40.1	21.4
U98-310860	51.6	15	-0.2	1.8	36	15.2	2.0	2.0	39.3	21.8

132.6 Days After Planting

**UNIFORM TEST III, 2001**

**2000-2001 2-YEAR MEAN**

No. of Tests Strain	Yield 36 bu/a	Rank 36 No.	Maturity 32 Date	Lodging 37 Score	Plant Height 34 In.	Seed Size 34 g/100	Composition	
							Protein 9 %	Oil 9 %
IA3010 (III)	51.2	7	9/20	1.1	28	13.9	40.0	20.3
IA2052 (II)	49.7	9	-6.8	1.6	34	14.2	41.7	20.7
IA3014 (SCN)	52.5	5	-1.0	1.7	35	14.0	40.9	20.3
Macon (L)	52.9	4	3.5	1.5	33	15.9	41.3	20.4
NE3001	53.0	3	-3.1	1.2	23	16.6	40.4	21.1
Stout (dt1)	48.8	10	-0.5	1.3	23	15.4	40.7	21.0
HC94-96PR	52.3	6	1.1	1.3	23	14.3	39.9	21.3
HC94-1065	54.3	2	2.1	1.2	22	14.1	39.1	21.3
HC94-1946	50.7	8	1.9	1.4	24	13.6	40.2	20.7
U97-201128	54.7	1	-0.0	1.5	35	14.5	42.0	20.1

131.4 Days After Planting

**1999-2001 3-YEAR MEAN**

No. of Tests Strain	58	58	51	59	56	56	14	14
IA3010 (III)	52.1	4	9/21	1.2	28	14.0	39.7	20.1
Macon (L)	52.1	4	4.0	1.5	33	15.8	41.1	20.1
NE3001	53.2	2	-2.8	1.2	23	16.8	40.2	20.8
HC94-96PR	52.3	3	1.4	1.3	23	14.4	39.8	21.0
HC94-1065	53.6	1	2.7	1.2	22	14.3	39.0	21.0

131.4 Days After Planting

**1998-2001 4-YEAR MEAN**

No. of Tests Strain	81	81	70	81	78	77	19	19
IA3010 (III)	52.9	2	9/21	1.2	28	14.1	39.7	20.2
Macon (L)	52.3	3	3.9	1.5	33	15.9	41.1	20.2
NE3001	53.6	1	-2.6	1.2	23	16.9	40.2	20.8
HC94-96PR	51.6	4	1.5	1.2	23	14.5	39.9	21.0

128.7 Days After Planting



UNIFORM TEST III, 2601

YIELD (bu/a)

Strain	Mean 20 Tests	George- town DE	Middle- town DE	Ames IA	Carlisle IA	Richland IA	Newton IL
IA3010 (III)	48.3	32.2	25.1	56.5	65.0	29.1	43.6
IA2052 (II)	47.6	33.9	21.2	61.8	64.8	37.2	41.4
IA3014 (SCN)	53.7	59.4	32.6	53.4	63.5	43.0	50.0
Macon (L)	54.1	59.7	28.7	62.5	69.0	33.9	50.8
NE3001	50.8	47.8	26.1	70.9	70.9	32.6	36.4
Stout (dt1)	47.9	55.9	33.0	49.8	68.1	32.0	40.0
A99-217006	52.0	46.4	26.9	58.4	70.7	45.7	43.0
A99-315011	55.1	55.6	25.1	58.3	69.0	36.0	45.2
A99-315020	54.2	53.9	23.4	67.4	74.4	38.0	47.3
A99-315026	56.3	49.1	29.7	67.8	77.3	47.2	50.3
HC94-96PR	51.7	63.2	31.6	54.0	71.4	39.5	41.4
HC94-1065	54.3	62.4	30.2	47.4	76.1	33.4	41.9
HC94-1946	49.7	56.4	25.3	47.7	73.5	34.1	37.9
HC95-634	44.7	43.9	22.0	35.4	65.3	33.0	32.5
HC95-1495	45.6	48.8	22.6	48.4	69.8	41.8	33.9
HC96-45PR	45.9	52.9	27.9	37.4	63.4	31.2	34.6
HC96-513	50.4	60.9	27.9	56.8	69.8	35.3	40.4
HF98-023	52.8	57.3	30.4	51.8	67.2	40.7	41.1
LN97-14727	51.7	51.7	26.7	59.6	58.2	40.6	49.7
LN97-14868	53.1	42.8	28.1	58.8	67.2	42.0	47.9
LN97-14926	51.2	51.0	29.1	60.7	64.7	43.9	50.3
U97-201128	55.5	60.1	27.5	51.2	71.2	38.6	54.3
U97-207134	45.4	48.9	15.5	53.0	67.2	39.6	35.9
U98-200912	51.2	52.5	25.3	62.3	64.3	37.9	43.3
U98-201113	49.6	54.1	21.8	56.8	66.1	28.6	41.5
U98-307162	55.2	52.0	28.3	65.8	70.6	37.9	42.0
U98-307917	56.6	53.9	24.5	64.8	73.7	45.1	46.8
U98-310860	51.6	52.4	26.9	56.1	64.4	42.7	43.1
C.V. (%)		6.5	9.9	15.1	6.5	13.0	8.7
L.S.D. (5%)		5.6	4.2	17.4	9.1	10.1	6.2
Row Sp. (in.)		15	15	27	27	27	30
Rows/Plot		5	5	4	4	4	4
Reps		3	3	2	2	2	3

UNIFORM TEST III, 2001

YIELD (bu/a)

Strain	Urbana IL	Butler- ville IN	Lafay- ette IN	Wanatah IN	Man- hattan KS	Seneca KS	Queens- town MD
IA3010 (III)	55.8	24.8	38.0	60.6	46.3	33.7	47.4
IA2052 (II)	54.5	24.2	39.3	62.5	54.0	31.5	41.5
IA3014 (SCN)	62.8	44.4	53.9	70.3	55.0	37.5	53.8
Macon (L)	59.3	45.8	51.9	62.3	58.6	38.4	49.5
NE3001	54.5	14.8	42.4	70.8	44.1	36.0	43.9
Stout (dt1)	52.4	11.8	40.8	66.9	24.2	34.5	48.4
A99-217006	55.1	43.6	46.2	71.1	52.2	35.7	47.2
A99-315011	62.9	22.8	50.5	68.6	62.9	40.9	47.9
A99-315020	60.3	42.0	46.9	71.5	52.3	39.1	50.4
A99-315026	61.6	25.8	49.3	73.4	57.7	43.4	47.8
HC94-96PR	58.3	30.4	40.3	62.7	42.0	36.7	48.6
HC94-1065	63.1	18.1	45.9	67.5	50.5	42.1	54.7
HC94-1946	57.9	15.3	47.5	69.6	27.1	35.9	52.3
HC95-634	48.5	23.0	22.7	64.9	32.9	31.4	48.5
HC95-1495	44.4	4.1	37.6	65.9	34.1	32.7	42.1
HC96-45PR	53.8	8.7	32.8	65.8	27.7	35.6	46.9
HC96-513	61.2	10.6	43.1	64.2	39.5	35.1	49.1
HF98-023	54.1	48.7	48.9	63.7	64.1	35.8	49.6
LN97-14727	57.5	47.7	48.0	62.4	55.9	38.9	48.9
LN97-14868	60.7	38.9	45.9	63.4	66.2	40.6	48.6
LN97-14926	57.1	37.3	43.7	63.8	42.5	35.9	46.4
U97-201128	55.5	35.7	52.6	67.9	59.5	39.8	53.7
U97-207134	47.8	16.8	39.9	62.5	46.1	25.3	43.6
U98-200912	54.0	30.5	47.3	69.4	59.0	34.3	51.0
U98-201113	52.0	29.4	43.3	67.0	58.3	34.6	44.7
U98-307162	53.4	42.0	53.0	70.8	54.7	41.3	49.7
U98-307917	59.0	46.3	56.8	71.9	63.2	41.6	51.0
U98-310860	53.5	36.1	48.4	69.1	50.8	37.6	48.7
C.V. (%)	7.1	22.1	8.2	5.4	14.2	7.9	10.2
L.S.D. (5%)	6.5	10.7	6.1	6.0	11.7	4.7	ns
Row Sp. (in.)	30	26	24	26	30	30	24
Rows/Plot	4	4	4	4	4	4	4
Reps	3	3	3	3	3	3	3

\* Data not included in mean.

## UNIFORM TEST III, 2001

## YIELD (bu/a)

Strain	Kingdom City MO	Portageville Clay MO	Portageville Loam MO	Goehner NE	Plymouth NE	Tekamah NE	Plain City OH	So. Charl- eston OH
IA3010 (III)	46.8	30.1	49.9	79.3	36.8	48.4	74.5	66.9
IA2052 (II)	39.7	22.6	37.9	83.9	36.2	55.7	63.8	69.6
IA3014 (SCN)	45.3	31.6	51.3	75.3	45.2	56.1	67.1	67.4
Macon (L)	52.0	34.2	54.8	81.4	40.6	49.4	74.0	70.8
NE3001	31.2	21.8	44.6	84.8	46.3	58.3	72.9	79.9
Stout (dt1)	37.1	33.6	32.0	76.6	41.2	49.1	69.1	73.0
A99-217006	45.4	27.2	43.7	78.8	38.4	58.3	74.3	75.6
A99-315011	47.4	27.3	49.9	90.9	52.1	56.2	78.8	76.2
A99-315020	41.0	23.4	52.5	88.5	46.8	54.6	76.5	76.2
A99-315026	45.1	26.1	43.1	85.4	45.2	64.6	75.7	85.7
HC94-96PR	43.0	35.5	37.7	83.2	48.3	48.5	73.3	75.8
HC94-1065	35.6	36.2	36.2	89.7	51.2	58.0	82.2	82.4
HC94-1946	38.0	28.0	31.5	77.6	51.2	52.1	77.8	73.1
HC95-634	29.4	32.0	31.3	79.1	49.5	48.4	73.8	68.7
HC95-1495	23.8	21.0	31.8	74.8	50.3	45.8	77.5	65.5
HC96-45PR	22.6	34.8	34.8	68.8	46.7	45.0	80.9	75.4
HC96-513	40.7	29.1	34.1	79.0	44.6	50.2	78.5	67.9
HF98-023	49.3	33.8	45.9	79.4	39.9	52.8	76.3	73.7
LN97-14727	50.7	34.0	49.0	58.0	49.6	53.5	78.0	63.1
LN97-14868	47.3	35.0	51.3	75.1	47.9	56.3	73.4	63.5
LN97-14926	32.5	32.4	54.3	76.2	48.1	57.6	71.4	62.1
U97-201128	59.3	34.2	50.5	85.7	44.9	52.0	77.2	75.1
U97-207134	23.4	18.9	36.3	77.7	32.3	50.1	74.0	70.7
U98-200912	39.5	27.9	46.9	73.7	36.5	51.6	70.2	78.0
U98-201113	35.7	24.6	48.1	77.0	41.5	55.0	77.4	63.0
U98-307162	58.1	41.2	59.7	77.6	46.6	56.3	72.9	72.6
U98-307917	52.1	32.9	55.4	85.7	45.5	50.5	82.5	76.2
U98-310860	41.5	32.8	42.5	78.1	41.8	53.9	74.8	72.1
C.V. (%)	9.0	11.0	10.8	6.2	14.3	6.7	7.0	6.0
L.S.D. (5%)	5.1	4.5	6.5	8.3	10.6	5.8	9.0	7.1
Row Sp. (in.)	30	30	30	30	30	30	15	7.5
Rows/Plot	4	4	4	4	4	4	6	8
Reps	3	3	3	3	3	3	3	3

UNIFORM TEST III, 2001

YIELD RANK

Strain	Yield Rank	George-town DE	Middle-town DE	Ames IA	Carlisle IA	Richland IA	Newton IL
IA3010 (III)	22	27	19	16	21	27	11
IA2052 (II)	24	28	27	8	22	17	19
IA3014 (SCN)	9	6	2	19	26	5	5
Macon (L)	8	5	7	6	13	21	2
NE3001	18	22	16	1	8	24	24
Stout (dt1)	23	9	1	23	15	25	22
A99-217006	12	24	12	12	9	2	14
A99-315011	5	9	19	13	13	18	10
A99-315020	7	12	23	3	3	14	8
A99-315026	2	20	14	2	1	1	3
HC94-96PR	13	1	3	18	6	12	18
HC94-1065	6	2	5	26	2	22	16
HC94-1946	20	8	17	25	5	20	23
HC95-634	28	25	25	28	20	23	28
HC95-1495	26	22	24	24	11	8	27
HC96-45PR	25	14	10	27	27	26	26
HC96-513	19	17	21	14	11	19	21
HF98-023	11	7	4	21	16	9	20
LN97-14727	13	18	14	10	28	10	6
LN97-14868	10	26	9	11	16	7	7
LN97-14926	16	19	6	9	23	4	4
U97-201128	3	4	11	22	7	13	1
U97-207134	27	21	28	20	16	11	25
U98-200912	16	15	17	7	25	15	12
U98-201113	21	11	26	14	19	28	17
U98-307162	4	17	8	4	10	15	15
U98-307917	1	12	22	5	4	3	9
U98-310860	15	15	12	17	24	6	13

UNIFORM TEST III, 2001

YIELD RANK

Strain	Urbana IL	Butler- ville IN	Lafay- ette IN	Wanatah IN	Man- hattan KS	Seneca KS	Queens- town MD
IA3010 (III)	14	17	25	28	18	24	20
IA2052 (II)	18	18	24	24	13	26	28
IA3014 (SCN)	3	5	2	7	11	12	2
Macon (L)	8	4	5	27	7	10	10
NE3001	18	24	20	5	20	14	25
Stout (dt1)	24	25	21	15	28	22	17
A99-217006	16	6	14	4	15	18	21
A99-315011	2	20	6	11	4	5	18
A99-315020	7	7	13	3	14	8	7
A99-315026	4	16	7	1	9	1	19
HC94-96PR	10	14	22	23	22	13	14
HC94-1065	1	21	15	13	17	2	1
HC94-1946	11	23	11	8	27	15	4
HC95-634	26	19	28	18	25	27	16
HC95-1495	28	28	26	16	24	25	27
HC96-45PR	21	27	27	17	26	19	22
HC96-513	5	26	19	19	23	20	11
HF98-023	19	1	8	21	2	17	9
LN97-14727	12	2	10	26	10	9	12
LN97-14868	6	9	15	22	1	6	14
LN97-14926	13	10	17	20	21	15	23
U97-201128	15	12	4	12	5	7	3
U97-207134	27	22	23	24	19	28	26
U98-200912	20	13	12	9	6	23	5
U98-201113	25	15	18	14	8	21	24
U98-307162	23	7	3	5	12	4	8
U98-307917	9	3	1	2	3	3	5
U98-310860	22	11	9	10	16	11	13

UNIFORM TEST III, 2001

YIELD RANK

Strain	Kingdom City MO	Portageville Clay MO	Portageville Loam MO	Goehner NE	Plymouth NE	Tekamah NE	Plain City OH	So. Charl- eston OH
IA3010 (III)	9	17	10	12	25	25	15	23
IA2052 (II)	17	26	20	8	27	10	28	19
IA3014 (SCN)	11	16	6	23	15	9	27	22
Macon (L)	4	7	3	10	22	22	17	17
NE3001	24	27	16	7	13	2	22	3
Stout (dt1)	20	11	26	21	21	23	26	14
A99-217006	10	22	17	15	24	2	16	9
A99-315011	7	21	10	1	1	8	4	5
A99-315020	15	25	5	3	10	12	11	5
A99-315026	12	23	18	6	15	1	13	1
HC94-96PR	13	3	21	9	7	24	21	8
HC94-1065	22	2	23	2	2	4	2	2
HC94-1946	19	19	28	18	2	16	7	13
HC95-634	25	15	29	13	6	25	19	20
HC95-1495	26	28	27	25	4	27	8	24
HC96-45PR	28	5	24	27	11	28	3	10
HC96-513	16	18	25	14	18	20	5	21
HF98-023	6	10	15	11	23	15	12	12
LN97-14727	5	9	12	28	5	14	6	26
LN97-14868	8	4	6	24	9	6	20	25
LN97-14926	23	14	4	22	8	5	24	28
U97-201128	1	7	8	4	17	17	10	11
U97-207134	27	29	22	17	28	21	17	18
U98-200912	18	20	14	26	26	18	25	4
U98-201113	21	24	13	20	20	11	9	27
U98-307162	2	1	1	18	12	6	22	15
U98-307917	3	12	2	4	14	19	1	5
U98-310860	14	13	19	16	19	13	14	16

UNIFORM TEST III, 2001

MATURITY (date)

Strain	Mean 18 Tests	George- town DE	Middle- town DE	Ames IA	Carlisle IA	Richland IA	Newton IL
IA3010 (III)	9/23	9/15	9/22	10/3			9/5
IA2052 (II)	-5	2	-7	-9			-10
IA3014 (SCN)	-1	1	-3	-2			-2
Macon (L)	3	5	2	5			4
NE3001	-2	2	-3	-5			-10
Stout (dt1)	-1	4	-3	-3			-6
A99-217006	-4	5	-5	-9			-5
A99-315011	1	2	-3	1			-2
A99-315020	-0	4	-2	-2			0
A99-315026	-1	5	-6	-3			-4
HC94-96PR	0	5	-1	-2			-4
HC94-1065	1	7	-1	-3			0
HC94-1946	2	6	-2	0			-5
HC95-634	1	4	0	-2			0
HC95-1495	-1	3	-2	-3			-7
HC96-45PR	3	7	1	4			-2
HC96-513	1	7	-2	-2			-4
HF98-023	-1	2	-3	-6			-3
LN97-14727	1	5	1	-2			2
LN97-14868	1	2	1	-2			2
LN97-14926	-2	1	-3	-7			-7
U97-201128	0	3	-5	1			0
U97-207134	-6	2	-7	-17			-9
U98-200912	-2	0	-1	-2			-7
U98-201113	-1	5	0	-3			-4
U98-307162	0	5	0	0			-1
U98-307917	1	3	-2	0			2
U98-310860	-0	1	0	-1			-1
Date Planted	5/13	5/15	6/6	5/10			4/28
Days to Mature	133	123	108	146	0	0	130

UNIFORM TEST III, 2001

MATURITY (date)

Strain	Urbana IL	Butler- ville IN	Lafay- ette IN	Wanatah IN	Man- hattan KS	Seneca KS	Queens- town MD
IA3010 (III)	9/23	9/22	9/29	10/11	9/23		9/26
IA2052 (II)	-15	-12	-12	-8	-8		-7
IA3014 (SCN)	-4	-1	-4	-1	-1		0
Macon (L)	4	+2	+3	+1	7		5
NE3001	-10	-7	-4	-2	-2		-4
Stout (dt1)	-2	-8	-6	-1	4		2
A99-217006	-10	-7	-10	-7	-7		-4
A99-315011	-3	-3	-1	0	4		0
A99-315020	-4	-1	-2	-1	-1		0
A99-315026	-4	-4	-6	0	2		-1
HC94-96PR	0	-5	-4	0	3		2
HC94-1065	0	-6	+2	0	7		4
HC94-1946	-2	-5	0	0	7		4
HC95-634	0	-4	-4	0	8		3
HC95-1495	-5	-8	-5	-2	3		1
HC96-45PR	2	-4	+4	0	8		1
HC96-513	0	-3	-3	-1	4		2
HF98-023	-5	-4	-6	-2	3		0
LN97-14727	3	+1	0	0	3		2
LN97-14868	2	+1	+1	0	2		0
LN97-14926	-5	-6	-12	-7	-2		0
U97-201128	0	-3	-1	-1	4		2
U97-207134	-16	-12	-14	-9	-10		-4
U98-200912	-4	-7	-6	-6	-1		-2
U98-201113	-5	-6	-7	-7	-2		0
U98-307162	-1	0	+1	-1	3		1
U98-307917	2	+1	+1	-1	3		1
U98-310860	-2	-4	-2	0	0		0
Date Planted	5/1	5/10	5/15	5/31	5/9		6/12
Days to Mature	145	135	137	133	137	0	106



UNIFORM TEST III, 2001

MATURITY (date)

Strain	Kingdom City MO	Portageville Clay MO	Portageville Loam MO	Goehner NE	Plymouth NE	Tekamah NE	Plain City OH	So. Charl- eston OH
IA3010 (III)	9/24	9/20	9/6	10/4	9/22	10/3	9/19	9/25
IA2052 (II)	-8	-14	-11	-11	-7	-4	-6	-12
IA3014 (SCN)	-4	-6	-5	-8	2	-1	-1	-2
Macon (L)	-1	+2	+3	0	10	4	2	3
NE3001	-8	-8	-8	-7	7	-1	0	-5
Stout (dt1)	-7	-1	-3	-3	-1	-1	0	-4
A99-217006	-8	-8	-8	-11	-4	-4	-3	-6
A99-315011	0	+1	0	0	8	4	0	-1
A99-315020	-6	-7	0	-1	1	-1	1	-2
A99-315026	-4	-3	-2	-3	4	2	1	-2
HC94-96PR	-5	-1	-4	-4	1	3	4	1
HC94-1065	-2	+2	-2	-1	2	3	3	3
HC94-1946	-2	0	-3	1	5	5	5	7
HC95-634	-4	+4	-3	-1	2	4	5	3
HC95-1495	-2	-3	-6	-5	0	-1	1	0
HC96-45PR	-2	+5	+2	1	9	5	7	5
HC96-513	-1	-1	-3	-2	2	3	3	2
HF98-023	-6	-3	-5	-5	2	-1	-1	-5
LN97-14727	-1	+3	+1	0	-2	2	6	4
LN97-14868	-2	+3	+1	-3	4	1	3	1
LN97-14926	-6	-4	-7	-7	0	-1	-3	-7
U97-201128	-4	-2	-1	-3	2	3	0	-3
U97-207134	-8	-14	-8	-12	-8	-8	-5	-9
U98-200912	-7	-5	-6	-6	0	-1	-2	-6
U98-201113	-4	-6	-4	-7	0	-2	-1	-6
U98-307162	-3	-1	+1	-1	0	0	1	0
U98-307917	-2	-1	+1	0	7	2	3	1
U98-310860	-2	-5	-5	-3	3	2	0	-2
Date Planted	5/3	5/10	5/10	5/25	5/14	5/16	5/1	5/2
Days to Mature	144	133	119	132	131	140	141	146

## UNIFORM TEST III, 2001

## LODGING (score)

Strain	Mean 21 Tests	George- town DE	Middle- town DE	Ames IA	Carlisle IA	Richland IA	Newton IL
IA3010 (III)	1.1	1.0	1.0	2.0	2.0	1.0	1.0
IA2052 (II)	1.4	1.0	1.0	2.3	2.0	1.0	1.0
IA3014 (SCN)	1.6	1.0	1.0	1.8	2.5	1.0	1.3
Macon (L)	1.5	1.0	1.0	2.3	2.8	1.3	1.5
NE3001	1.1	1.0	1.0	1.5	2.0	1.0	1.0
Stout (dt1)	1.3	1.0	1.0	1.5	2.0	1.0	1.0
A99-217006	1.5	1.0	1.0	2.3	2.3	1.0	1.7
A99-315011	1.4	1.0	1.0	2.3	2.5	1.0	1.2
A99-315020	1.5	2.0	1.0	1.8	2.3	1.0	1.3
A99-315026	1.2	1.0	1.0	1.8	2.5	1.0	1.0
HC94-96PR	1.2	1.0	1.0	1.5	2.0	1.0	1.0
HC94-1065	1.2	1.0	1.0	1.5	2.0	1.0	1.0
HC94-1946	1.3	1.0	1.0	1.5	1.8	1.0	1.0
HC95-634	1.1	1.0	1.0	1.5	1.8	1.0	1.0
HC95-1495	1.1	1.0	1.0	1.5	1.5	1.0	1.0
HC96-45PR	1.3	1.0	1.0	1.5	1.8	1.0	1.0
HC96-513	1.2	1.0	1.0	1.5	1.8	1.0	1.0
HF98-023	1.5	2.0	1.0	1.5	2.3	1.0	1.3
LN97-14727	1.9	2.0	1.0	2.3	2.5	2.0	1.7
LN97-14868	1.6	2.0	1.0	2.0	2.5	1.5	1.5
LN97-14926	1.6	2.0	1.0	1.8	3.3	1.5	1.5
U97-201128	1.4	1.0	1.0	2.0	2.5	1.0	1.5
U97-207134	1.3	1.0	1.0	1.5	2.5	1.0	1.0
U98-200912	1.3	1.0	1.0	2.3	3.3	1.0	1.2
U98-201113	1.3	1.0	1.0	1.8	3.0	1.0	1.3
U98-307162	1.5	2.0	1.0	1.8	3.0	1.3	1.2
U98-307917	1.4	1.0	1.0	2.3	2.8	1.0	1.3
U98-310860	1.8	2.0	1.0	3.0	2.5	1.3	1.5

UNIFORM TEST III, 2001

LODGING (score)

Strain	Urbana IL	Butler- ville IN	Lafay- ette IN	Wanatah IN	Man- hattan KS	Seneca KS	Queens- town MD
IA3010 (III)	1.2	1.0	1.5	1.0	1.0	1.0	1.0
IA2052 (II)	1.5	1.0	1.3	1.7	1.0	1.3	1.2
IA3014 (SCN)	2.2	1.3	1.7	2.3	1.3	1.7	1.5
Macon (L)	2.0	1.0	1.3	1.8	1.7	1.0	1.8
NE3001	1.0	1.0	1.0	1.5	1.0	1.0	1.2
Stout (dt1)	1.8	1.0	1.0	2.2	1.0	1.0	1.5
A99-217006	1.7	1.0	1.7	1.8	1.0	1.0	1.5
A99-315011	1.8	1.0	1.3	1.7	1.3	1.0	1.3
A99-315020	2.0	1.0	1.3	2.0	1.0	1.3	1.2
A99-315026	1.7	1.0	1.3	1.3	1.0	1.0	1.2
HC94-96PR	1.7	1.0	1.0	1.2	1.0	1.0	1.5
HC94-1065	1.2	1.0	1.0	1.5	1.0	1.0	1.3
HC94-1946	1.7	1.0	1.0	1.7	1.0	1.0	1.8
HC95-634	1.3	1.0	1.0	1.2	1.0	1.0	1.2
HC95-1495	1.3	1.0	1.0	1.0	1.0	1.0	1.0
HC96-45PR	1.7	1.0	1.0	1.8	1.0	1.0	1.2
HC96-513	1.7	1.0	1.0	1.2	1.0	1.0	1.5
HF98-023	1.7	1.3	1.3	2.0	2.0	1.0	1.5
LN97-14727	2.7	2.2	1.3	2.3	1.7	1.3	2.0
LN97-14868	2.2	1.2	1.0	2.0	1.0	1.3	2.0
LN97-14926	1.7	1.0	1.2	1.8	1.0	1.3	2.0
U97-201128	2.0	1.0	1.5	2.0	1.3	1.0	1.5
U97-207134	1.7	1.0	1.3	2.2	1.0	1.3	1.7
U98-200912	1.5	1.0	1.5	1.5	1.0	1.0	1.3
U98-201113	1.5	1.0	1.0	1.2	1.0	1.3	1.2
U98-307162	1.7	1.3	1.3	1.7	1.3	1.0	1.0
U98-307917	1.7	1.2	1.3	1.5	1.0	1.3	1.2
U98-310860	2.7	2.0	1.8	2.2	1.7	1.7	1.8

UNIFORM TEST III, 2001

LODGING (score)

Strain	Kingdom City MO	Portageville Clay MO	Portageville Loam MO	Goehner NE	Plymouth NE	Tekamah NE	Plain City OH	So. Charl- eston OH
IA3010 (III)	1.0	1.0	1.0	1.0	1.0	1.0	1.2	1.0
IA2052 (II)	1.0	1.0	1.0	2.0	1.0	1.7	1.8	2.0
IA3014 (SCN)	1.0	1.0	1.8	2.3	1.0	1.3	2.7	2.5
Macon (L)	1.0	1.2	1.7	2.0	1.0	1.0	1.5	1.8
NE3001	1.0	1.0	1.0	1.0	1.0	1.0	1.1	1.3
Stout (dt1)	1.0	1.0	1.0	1.0	1.0	1.0	2.6	1.3
A99-217006	1.0	1.0	1.3	1.3	1.0	2.0	2.2	2.5
A99-315011	1.0	1.0	1.3	2.0	1.0	1.0	1.8	1.8
A99-315020	1.0	1.0	1.5	2.3	1.0	1.3	2.0	2.0
A99-315026	1.0	1.2	1.0	1.3	1.0	1.0	1.3	1.5
HC94-96PR	1.0	1.0	1.0	1.0	1.0	1.0	2.2	1.8
HC94-1065	1.0	1.0	1.0	1.0	1.0	1.0	1.8	1.3
HC94-1946	1.0	1.0	1.0	1.3	1.0	1.0	3.0	1.5
HC95-634	1.0	1.0	1.0	1.0	1.0	1.0	1.6	1.0
HC95-1495	1.0	1.0	1.0	1.0	1.0	1.0	1.3	1.0
HC96-45PR	1.0	1.0	1.0	1.0	1.0	1.0	3.0	1.3
HC96-513	1.0	1.0	1.0	1.0	1.0	1.0	2.2	1.0
HF98-023	1.0	1.3	1.0	1.7	1.0	1.0	2.3	1.8
LN97-14727	1.0	1.5	1.8	2.0	1.0	1.0	3.2	2.7
LN97-14868	1.0	1.2	1.8	2.0	1.0	1.0	1.9	1.8
LN97-14926	1.0	1.3	1.7	1.7	1.0	1.0	2.5	2.8
U97-201128	1.0	1.2	1.2	1.7	1.0	1.0	1.4	1.7
U97-207134	1.0	1.0	1.0	1.0	1.0	1.0	1.5	1.8
U98-200912	1.0	1.0	1.0	1.0	1.0	1.0	1.3	1.7
U98-201113	1.0	1.2	1.0	1.0	1.0	1.0	1.3	1.7
U98-307162	1.0	1.2	1.5	1.7	1.0	1.0	1.6	2.2
U98-307917	1.0	1.0	1.2	2.0	1.0	1.0	1.6	1.8
U98-310860	1.0	1.2	1.0	2.3	1.0	1.7	2.3	3.0

UNIFORM TEST III, 2001

PLANT HEIGHT (inches)

Strain	Mean 19 Tests	George- town DE	Middle- town DE	Ames IA	Carlisle IA	Richland IA	Newton IL
IA3010 (III)	28	21	22	33	38	26	31
IA2052 (II)	33	25	27	41	50	28	37
IA3014 (SCN)	35	24	28	39	47	38	37
Macon (L)	33	25	28	39	47	33	37
NE3001	21	19	22	26	32	18	22
Stout (dt1)	22	22	22	24	32	18	24
A99-217006	35	24	29	44	50	35	42
A99-315011	32	23	26	39	46	32	36
A99-315020	34	26	28	41	45	31	38
A99-315026	31	20	26	38	43	34	33
HC94-96PR	22	24	23	26	28	19	22
HC94-1065	21	23	24	21	31	19	20
HC94-1946	22	21	22	26	31	22	23
HC95-634	20	16	23	19	25	21	21
HC95-1495	19	19	18	20	28	19	21
HC96-45PR	21	18	21	23	32	21	23
HC96-513	21	21	20	20	28	18	23
HF98-023	36	29	32	43	51	38	38
LN97-14727	33	28	27	41	45	34	37
LN97-14868	32	21	25	41	42	35	37
LN97-14926	32	22	24	37	41	34	34
U97-201128	36	27	27	41	52	34	41
U97-207134	30	25	28	34	43	28	35
U98-200912	32	24	27	40	44	31	35
U98-201113	31	20	25	39	41	31	36
U98-307162	31	28	23	35	40	30	35
U98-307917	34	24	24	43	47	32	38
U98-310860	36	26	28	42	49	37	40

UNIFORM TEST III, 2001

PLANT HEIGHT (inches)

Strain	Urbana IL	Butler- ville IN	Lafay- ette IN	Wanatah IN	Man- hattan KS	Seneca KS	Queens- town MD
IA3010 (III)	31	23	27	37	25	26	19
IA2052 (II)	37	26	36	41	28	33	23
IA3014 (SCN)	39	30	34	40	35	32	29
Macon (L)	37	28	35	42	28	33	26
NE3001	30	14	22	36	13	22	18
Stout (dt1)	24	17	23	34	14	20	17
A99-217006	35	30	39	43	25	33	27
A99-315011	34	27	33	39	28	31	25
A99-315020	35	27	35	39	30	32	27
A99-315026	33	24	33	39	27	32	22
HC94-96PR	24	21	22	33	13	22	20
HC94-1065	25	16	21	34	10	21	18
HC94-1946	24	19	22	33	13	21	21
HC95-634	20	21	14	34	13	18	18
HC95-1495	21	12	20	35	11	20	16
HC96-45PR	25	16	19	35	13	22	20
HC96-513	24	18	20	34	13	20	18
HF98-023	39	28	39	40	34	34	28
LN97-14727	34	29	33	37	29	31	29
LN97-14868	37	27	33	39	29	31	28
LN97-14926	36	28	31	38	28	30	26
U97-201128	41	27	38	41	33	32	29
U97-207134	36	23	33	36	26	29	24
U98-200912	34	26	33	37	28	30	26
U98-201113	33	29	32	35	27	30	27
U98-307162	34	26	30	37	29	30	24
U98-307917	37	28	35	40	32	32	27
U98-310860	38	32	36	40	34	36	29

UNIFORM TEST III, 2001

PLANT HEIGHT (inches)

Strain	Kingdom City MO	Portageville Clay MO	Portageville Loam MO	Goehner NE	Plymouth NE	Tekamah NE	Plain City OH	So. Charl- eston OH
IA3010 (III)	24	27	28	28			29	31
IA2052 (II)	33	29	31	38			33	33
IA3014 (SCN)	33	35	35	38			34	37
Macon (L)	25	30	31	37			33	37
NE3001	14	19	14	26			22	18
Stout (dt1)	12	23	14	24			31	23
A99-217006	33	30	33	40			37	34
A99-315011	31	26	30	39			31	35
A99-315020	30	27	34	41			35	38
A99-315026	29	27	26	31			35	34
HC94-96PR	14	21	12	24			28	26
HC94-1065	13	20	12	28			25	26
HC94-1946	13	20	13	26			30	27
HC95-634	13	15	12	22			25	25
HC95-1495	12	14	11	25			25	23
HC96-45PR	12	17	12	25			28	24
HC96-513	17	18	14	22			28	27
HF98-023	31	33	36	40			36	39
LN97-14727	29	29	31	34			36	38
LN97-14868	29	28	30	36			32	34
LN97-14926	29	30	30	36			32	34
U97-201128	32	34	34	41			36	41
U97-207134	22	30	29	35			30	33
U98-200912	25	28	31	34			34	34
U98-201113	30	29	28	34			32	34
U98-307162	28	30	30	33			30	32
U98-307917	31	30	31	38			35	38
U98-310860	35	36	32	41			37	37

## UNIFORM TEST III, 2001

## SEED SIZE (g/100)

Strain	Mean 19 Tests	George- town DE	Middle- town DE	Ames IA	Carlisle IA	Richland IA	Newton IL
IA3010 (III)	14.3			14.5	16.0	13.7	11.4
IA2052 (II)	14.4			14.8	15.8	12.9	12.3
IA3014 (SCN)	14.0			14.3	15.3	12.6	11.8
Macon (L)	15.8			16.0	17.5	14.1	13.2
NE3001	16.8			17.8	19.6	14.8	13.5
Stout (dt1)	16.0			17.6	17.2	14.7	14.6
A99-217006	13.6			13.8	15.0	12.1	11.2
A99-315011	15.1			15.1	16.5	13.5	11.7
A99-315020	13.3			13.3	14.5	12.1	11.8
A99-315026	15.0			15.5	16.5	13.5	11.8
HC94-96PR	14.6			16.7	17.1	13.8	12.1
HC94-1065	14.8			16.8	17.0	14.3	13.3
HC94-1946	14.2			15.3	16.4	13.7	11.3
HC95-634	14.8			18.3	17.2	13.4	11.2
HC95-1495	13.8			15.9	16.0	11.6	12.2
HC96-45PR	15.4			9.8	18.7	15.1	13.1
HC96-513	16.7			18.4	19.1	14.8	13.2
HF98-023	14.4			14.1	16.0	13.3	11.4
LN97-14727	14.6			14.4	16.0	13.2	12.5
LN97-14868	14.8			15.2	16.1	13.4	12.3
LN97-14926	15.2			15.4	17.2	13.7	12.0
U97-201128	14.7			14.4	16.7	13.4	12.2
U97-207134	14.6			15.6	17.0	13.1	13.5
U98-200912	14.0			14.1	15.4	12.1	11.6
U98-201113	14.5			14.3	15.8	12.8	11.7
U98-307162	14.4			14.5	16.2	12.8	10.7
U98-307917	14.6			14.2	16.7	13.3	11.6
U98-310860	15.2			15.3	16.4	13.6	11.6



UNIFORM TEST III, 2001

SEED SIZE (g/100)

Strain	Urbana IL	Butler- ville IN	Lafay- ette IN	Wanatah IN	Man- hattan KS	Seneca KS	Queens- town MD
IA3010 (III)	13.0	14.2	16.8	18.0	14.0	12.9	12.7
IA2052 (II)	12.8	13.0	14.2	17.0	16.2	12.3	14.3
IA3014 (SCN)	13.2	14.3	16.4	18.9	13.2	10.9	13.4
Macon (L)	15.5	15.4	17.3	19.6	16.2	14.4	15.3
NE3001	15.5	15.2	17.4	21.0	20.3	14.6	15.2
Stout (dt1)	15.1	15.1	15.1	17.6	19.2	15.0	14.5
A99-217006	12.6	13.4	14.4	17.3	13.5	11.9	13.3
A99-315011	14.8	14.1	17.6	17.4	15.5	13.5	14.4
A99-315020	12.6	13.4	14.7	15.9	13.8	10.7	12.6
A99-315026	13.8	14.3	16.1	18.4	14.3	13.1	15.0
HC94-96PR	13.6	11.8	14.6	15.7	16.1	12.6	14.2
HC94-1065	13.8	13.8	15.3	16.2	16.6	12.4	13.4
HC94-1946	13.1	12.9	14.8	15.7	17.8	12.1	13.5
HC95-634	13.8	14.6	15.2	16.3	17.1	12.8	13.2
HC95-1495	13.3	13.2	14.3	15.9	16.0	12.7	11.8
HC96-45PR	15.4	14.2	16.2	18.9	20.6	13.0	12.7
HC96-513	16.7	15.0	17.1	18.3	19.3	15.7	15.6
HF98-023	13.1	14.1	16.1	18.6	14.6	13.1	13.7
LN97-14727	13.3	14.7	16.4	18.0	14.4	12.9	13.6
LN97-14868	12.8	15.2	16.7	17.7	15.5	12.8	13.7
LN97-14926	14.2	14.0	15.8	19.7	15.3	13.3	14.6
U97-201128	14.2	13.2	16.0	17.4	18.4	14.0	13.9
U97-207134	13.6	13.3	14.8	18.7	14.5	12.2	14.4
U98-200912	13.0	12.3	15.0	16.7	15.6	12.2	13.4
U98-201113	12.8	13.8	15.9	18.1	14.8	13.1	14.0
U98-307162	12.7	14.5	16.0	18.5	15.0	12.9	13.2
U98-307917	13.3	13.8	16.5	17.7	16.6	13.6	14.0
U98-310860	13.3	14.3	17.6	20.8	14.7	13.6	15.2

UNIFORM TEST III, 2001

SEED SIZE (g/100)

Strain	Kingdom City MO	Portageville Clay MO	Portageville Loam MO	Goehner NE	Plymouth NE	Tekamah NE	Plain City OH	So. Charl- eston OH
IA3010 (III)	16.0	12.3	12.4	14.9	15.1	14.5	14.6	14.0
IA2052 (II)	14.0	16.1	15.0	15.3	13.8	14.5	15.6	12.9
IA3014 (SCN)	14.0	13.8	13.8	13.9	12.4	13.6	15.2	15.7
Macon (L)	16.0	15.7	15.0	16.4	14.8	15.3	17.0	16.4
NE3001	17.0	17.3	15.7	17.8	15.4	16.8	17.8	16.5
Stout (dt1)	15.0	17.9	16.7	16.7	14.9	15.2	16.8	14.8
A99-217006	14.0	12.2	14.1	13.8	12.9	13.8	15.8	14.2
A99-315011	16.0	14.2	16.2	15.0	15.8	14.8	16.4	14.7
A99-315020	14.0	12.8	13.7	13.0	12.6	13.6	14.7	13.1
A99-315026	16.0	16.1	14.7	15.1	13.9	15.4	16.7	15.7
HC94-96PR	16.0	13.0	15.7	14.9	13.5	14.6	16.7	14.0
HC94-1065	15.0	14.4	14.5	15.5	13.2	14.6	16.0	15.3
HC94-1946	15.0	13.1	13.3	14.9	13.9	13.8	15.3	14.0
HC95-634	15.0	15.6	13.3	16.1	14.7	14.8	15.2	14.0
HC95-1495	15.0	12.6	12.7	14.0	13.0	13.5	14.6	13.0
HC96-45PR	18.0	13.8	15.4	17.6	14.3	15.0	15.9	14.1
HC96-513	18.0	16.6	16.0	17.8	16.3	16.2	18.1	15.8
HF98-023	16.0	12.7	14.2	13.4	14.4	13.6	16.8	14.0
LN97-14727	16.0	13.0	14.0	14.5	13.9	14.5	16.6	15.3
LN97-14868	16.0	13.6	14.3	15.4	14.4	14.9	16.0	14.8
LN97-14926	14.0	14.9	15.9	16.0	15.0	15.7	16.8	15.1
U97-201128	14.0	14.9	13.9	13.9	14.8	15.0	15.0	13.8
U97-207134	15.0	12.2	15.3	15.2	12.7	15.7	16.7	14.7
U98-200912	15.0	13.8	14.1	14.8	12.9	14.0	15.6	14.2
U98-201113	15.0	14.5	15.8	14.6	13.9	14.3	16.3	14.2
U98-307162	15.0	13.7	14.3	14.9	13.5	14.6	15.2	15.0
U98-307917	16.0	14.1	14.1	14.3	14.5	13.3	15.1	15.1
U98-310860	15.0	13.5	15.5	15.0	14.7	15.1	16.8	15.9

UNIFORM TEST III, 2001

SEED QUALITY (score)

Strain	Mean 13 Tests	George- town DE	Middle- town DE	Ames IA	Carlisle IA	Richland IA	Newton IL
IA3010 (III)	1.9						1.0
IA2052 (II)	1.9						1.5
IA3014 (SCN)	1.8						1.0
Macon (L)	1.7						1.0
NE3001	2.0						2.0
Stout (dt1)	1.7						1.5
A99-217006	1.8						1.0
A99-315011	1.7						1.0
A99-315020	1.9						1.0
A99-315026	1.7						1.0
HC94-96PR	1.5						1.0
HC94-1065	1.7						1.5
HC94-1946	1.3						1.0
HC95-634	1.5						1.0
HC95-1495	1.5						1.5
HC96-45PR	1.7						1.0
HC96-513	1.6						1.5
HF98-023	1.7						1.0
LN97-14727	1.6						1.0
LN97-14868	1.8						1.0
LN97-14926	2.0						1.5
U97-201128	1.5						1.0
U97-207134	2.2						1.5
U98-200912	1.8						1.0
U98-201113	1.9						1.0
U98-307162	1.6						1.0
U98-307917	1.8						1.0
U98-310860	2.0						1.0

UNIFORM TEST III, 2001

SEED QUALITY (score)

Strain	Urbana IL	Butler- ville IN	Lafay- ette IN	Wanatah IN	Man- hattan KS	Seneca KS	Queens- town MD
IA3010 (III)	2.0	1.5	1.0	1.5	2.0	2.0	1.8
IA2052 (II)	1.5	2.0	1.0	1.0	2.0	2.0	2.0
IA3014 (SCN)	2.5	1.5	1.0	1.0	2.0	2.0	1.0
Macon (L)	2.5	1.0	1.0	1.0	2.0	2.0	1.0
NE3001	2.0	2.0	1.0	1.0	3.0	2.0	2.0
Stout (dt1)	1.0	1.0	1.0	1.0	2.0	2.0	1.0
A99-217006	2.0	1.0	1.0	1.0	3.0	2.0	1.2
A99-315011	2.0	1.5	1.0	1.0	2.0	2.0	1.2
A99-315020	2.5	1.5	1.0	1.5	2.0	2.0	1.7
A99-315026	2.0	1.0	1.0	1.0	2.0	2.0	1.0
HC94-96PR	1.5	1.0	1.0	1.0	2.0	2.0	1.0
HC94-1065	1.5	1.0	1.0	1.0	2.0	2.0	1.2
HC94-1946	1.5	1.0	1.0	1.0	2.0	1.0	1.0
HC95-634	1.0	1.0	1.0	1.0	2.0	2.0	1.0
HC95-1495	1.0	1.0	1.0	1.0	2.0	2.0	1.0
HC96-45PR	1.0	1.0	1.0	1.0	3.0	2.0	1.0
HC96-513	1.5	1.0	1.0	1.0	2.0	2.0	1.2
HF98-023	2.5	1.0	1.0	1.5	2.0	2.0	1.7
LN97-14727	2.0	1.0	1.0	1.0	1.0	2.0	1.0
LN97-14868	2.5	1.0	1.0	1.0	2.0	2.0	1.2
LN97-14926	2.0	1.5	1.0	1.5	2.0	2.0	1.8
U97-201128	2.0	1.0	1.0	1.0	2.0	2.0	1.0
U97-207134	2.0	1.5	1.0	1.5	2.0	2.0	2.0
U98-200912	2.5	1.5	1.0	1.0	2.0	2.0	1.3
U98-201113	2.0	1.0	1.0	1.5	2.0	2.0	2.0
U98-307162	2.5	1.0	1.0	1.0	1.0	2.0	1.2
U98-307917	2.5	1.0	1.0	1.0	2.0	2.0	1.0
U98-310860	2.5	1.5	1.0	1.0	3.0	2.0	1.7

UNIFORM TEST III, 2001

SEED QUALITY (score)

Strain	Kingdom City MO	Portageville Clay MO	Portageville Loam MO	Goehner NE	Plymouth NE	Tekamah NE	Plain City OH	So. Charl- eston OH
IA3010 (III)	3.0	4.0	3.0				1.3	1.0
IA2052 (II)	2.0	4.0	3.0				1.0	2.0
IA3014 (SCN)	2.0	3.0	3.0				1.3	2.0
Macon (L)	2.0	3.0	3.0				1.0	1.5
NE3001	2.0	3.0	3.0				1.0	2.0
Stout (dt1)	2.0	4.0	3.0				1.0	1.5
A99-217006	2.0	3.0	3.0				1.3	2.0
A99-315011	1.0	4.0	3.0				1.0	2.0
A99-315020	2.0	4.0	3.0				1.7	1.0
A99-315026	2.0	3.0	3.0				1.0	1.5
HC94-96PR	1.0	3.0	3.0				1.0	1.0
HC94-1065	2.0	4.0	3.0				1.0	1.5
HC94-1946	1.0	3.0	2.0				1.0	1.0
HC95-634	1.0	3.0	3.0				1.0	1.5
HC95-1495	1.0	3.0	3.0				1.0	1.5
HC96-45PR	2.0	4.0	3.0				1.0	1.0
HC96-513	1.0	3.0	3.0				1.0	1.5
HF98-023	2.0	3.0	2.0				1.0	2.0
LN97-14727	2.0	3.0	3.0				1.3	2.0
LN97-14868	2.0	3.0	3.0				1.7	2.5
LN97-14926	2.0	3.0	3.0				1.3	3.0
U97-201128	1.0	3.0	2.0				1.0	1.5
U97-207134	3.0	4.0	4.0				2.0	2.0
U98-200912	2.0	4.0	3.0				1.0	1.0
U98-201113	3.0	4.0	3.0				1.0	1.5
U98-307162	1.0	3.0	3.0				1.0	1.5
U98-307917	2.0	3.0	3.0				1.6	2.0
U98-310860	2.0	4.0	3.0				1.0	2.0

UNIFORM TEST III, 2001

GREEN STEM (score)

Strain	Mean 7 Tests	George- town DE	Middle- town DE	Ames IA	Carlisle IA	Richland IA	Newton IL
IA3010 (III)	1.6	2.0	2.0	2.0			
IA2052 (II)	2.0	5.0	1.0	1.0			
IA3014 (SCN)	2.0	4.0	2.0	2.0			
Macon (L)	2.7	5.0	3.0	2.0			
NE3001	1.7	3.0	2.0	2.0			
Stout (dt1)	2.0	5.0	2.0	2.0			
A99-217006	2.0	3.0	1.0	1.0			
A99-315011	2.4	5.0	3.0	1.0			
A99-315020	1.9	3.0	2.0	2.0			
A99-315026	2.1	5.0	1.0	1.0			
HC94-96PR	2.6	5.0	4.0	1.0			
HC94-1065	2.3	5.0	2.0	2.0			
HC94-1946	2.0	3.0	2.0	2.0			
HC95-634	2.5	4.0	3.0	3.0			
HC95-1495	2.1	5.0	2.0	1.0			
HC96-45PR	2.5	5.0	2.0	3.0			
HC96-513	2.7	5.0	3.0	2.0			
HF98-023	2.3	5.0	2.0	1.0			
LN97-14727	2.1	3.0	2.0	2.0			
LN97-14868	1.9	4.0	2.0	1.0			
LN97-14926	2.1	3.0	3.0	1.0			
U97-201128	2.0	5.0	1.0	2.0			
U97-207134	1.9	5.0	1.0	1.0			
U98-200912	1.7	3.0	2.0	2.0			
U98-201113	1.7	4.0	1.0	1.0			
U98-307162	2.2	5.0	3.0	2.0			
U98-307917	2.1	3.0	3.0	2.0			
U98-310860	2.0	3.0	2.0	2.0			

UNIFORM TEST III, 2001

GREEN STEM (score)

Strain	Urbana IL	Butler- ville IN	Lafay- ette IN	Wanatah IN	Man- hattan KS	Seneca KS	Queens- town MD
IA3010 (III)							
IA2052 (II)							
IA3014 (SCN)							
Macon (L)							
NE3001							
Stout (dt1)							
A99-217006							
A99-315011							
A99-315020							
A99-315026							
HC94-96PR							
HC94-1065							
HC94-1946							
HC95-634							
HC95-1495							
HC96-45PR							
HC96-513							
HF98-023							
LN97-14727							
LN97-14868							
LN97-14926							
U97-201128							
U97-207134							
U98-200912							
U98-201113							
U98-307162							
U98-307917							
U98-310860							

UNIFORM TEST III, 2001

GREEN STEM (score)

Strain	Kingdom City MO	Portageville Clay MO	Portageville Loam MO	Goehner NE	Plymouth NE	Tekamah NE	Plain City OH	So. Charl- eston OH
IA3010 (III)				2.0	1.0	1.0		1.0
IA2052 (II)				2.0	2.0	2.0		1.0
IA3014 (SCN)				1.0	2.0	2.0		1.3
Macon (L)				4.0	3.0	1.0		1.0
NE3001				2.0	1.0	1.0		1.0
Stout (dt1)				1.0	2.0	1.0		1.0
A99-217006				3.0	3.0	2.0		1.0
A99-315011				4.0	1.0	2.0		1.0
A99-315020				1.0	2.0	2.0		1.0
A99-315026				3.0	2.0	2.0		1.0
HC94-96PR				2.0	2.0	3.0		1.3
HC94-1065				2.0	2.0	2.0		1.3
HC94-1946				1.0	1.0	3.0		1.7
HC95-634				2.0	2.0	2.0		1.3
HC95-1495				2.0	2.0	2.0		1.0
HC96-45PR				3.0	2.0	1.0		1.3
HC96-513				2.0	3.0	3.0		1.0
HF98-023				2.0	2.0	3.0		1.0
LN97-14727				1.0	2.0	2.0		2.7
LN97-14868				3.0	1.0	1.0		1.3
LN97-14926				3.0	2.0	2.0		1.0
U97-201128				1.0	2.0	2.0		1.3
U97-207134				2.0	2.0	1.0		1.0
U98-200912				1.0	2.0	1.0		1.0
U98-201113				1.0	2.0	2.0		1.0
U98-307162				1.0	2.0	1.0		1.7
U98-307917				4.0	1.0	1.0		1.0
U98-310860				3.0	2.0	1.0		1.3



## UNIFORM TEST III, 2001

## PROTEIN (%)

Strain	Mean 4 Tests	Carlisle IA	Newton IL	Urbana IL	Lafayette IN
IA3010 (III)	39.0	38.5	39.0	40.5	37.7
IA2052 (II)	40.1	41.6	40.2	39.9	38.8
IA3014 (SCN)	39.7	40.3	38.8	41.0	38.8
Macon (L)	40.7	40.4	39.8	42.4	40.3
NE3001	38.7	39.0	40.0	38.9	37.0
Stout (dt1)	40.2	39.9	41.4	40.8	38.8
A99-217006	39.7	39.2	40.8	39.8	39.1
A99-315011	41.7	41.8	42.0	42.5	40.4
A99-315020	41.0	40.0	41.9	42.4	39.6
A99-315026	39.2	37.8	40.1	40.4	38.4
HC94-96PR	39.3	38.6	41.0	40.2	37.3
HC94-1065	38.7	38.0	40.4	39.2	37.1
HC94-1946	39.9	39.4	41.7	40.3	38.1
HC95-634	40.2	38.9	42.5	41.2	38.2
HC95-1495	39.8	38.4	41.6	41.4	37.8
HC96-45PR	41.4	40.6	43.1	42.2	39.6
HC96-513	39.1	38.7	41.2	39.7	37.0
HF98-023	40.9	39.6	42.0	42.6	39.4
LN97-14727	41.5	40.8	42.2	42.5	40.5
LN97-14868	41.2	40.9	41.3	42.6	39.9
LN97-14926	40.8	41.4	41.0	41.2	39.5
U97-201128	41.1	40.4	41.6	43.2	39.2
U97-207134	41.5	41.1	42.4	42.9	39.5
U98-200912	41.9	40.3	42.5	42.8	41.8
U98-201113	40.2	38.7	41.8	41.2	38.9
U98-307162	39.6	39.8	39.8	40.4	38.5
U98-307917	40.1	38.8	40.1	41.9	39.6
U98-310860	39.3	37.9	40.1	40.7	38.4

## UNIFORM TEST III, 2001

## OIL (%)

Strain	Mean 4 Tests	Carlisle IA	Newton IL	Urbana IL	Lafayette IN
IA3010 (III)	21.2	20.2	22.4	20.6	21.4
IA2052 (II)	21.8	20.6	22.4	22.2	21.9
IA3014 (SCN)	21.3	20.7	21.9	20.9	21.6
Macon (L)	21.0	20.0	22.7	20.3	21.0
NE3001	22.5	21.9	22.5	22.5	23.1
Stout (dt1)	21.8	21.0	22.0	21.6	22.4
A99-217006	20.9	20.9	21.0	20.8	21.0
A99-315011	20.5	20.1	20.6	20.3	21.0
A99-315020	20.6	20.8	20.4	20.1	20.9
A99-315026	22.0	21.8	22.4	21.5	22.0
HC94-96PR	22.2	22.1	21.5	22.0	23.1
HC94-1065	22.1	22.3	21.6	22.2	22.4
HC94-1946	21.6	21.3	21.2	21.8	22.1
HC95-634	21.3	21.5	20.6	21.0	22.2
HC95-1495	22.2	22.5	21.7	21.8	22.6
HC96-45PR	21.5	21.1	21.9	21.4	21.4
HC96-513	22.2	22.1	21.5	22.5	22.7
HF98-023	21.0	20.9	21.1	20.6	21.5
LN97-14727	20.2	19.7	20.7	19.6	20.9
LN97-14868	20.6	20.4	21.2	19.9	21.0
LN97-14926	21.3	20.7	21.6	20.9	22.1
U97-201128	20.9	20.4	21.8	19.8	21.7
U97-207134	21.0	21.0	21.2	20.2	21.6
U98-200912	20.8	20.6	21.5	20.4	20.5
U98-201113	21.2	21.1	21.4	20.3	21.9
U98-307162	21.3	20.8	22.0	20.8	21.7
U98-307917	21.4	21.5	22.1	20.2	21.7
U98-310860	21.8	21.7	21.7	21.3	22.4

Preliminary Test IIIA, 2001

	Strain	Parentage	Generation Composited	Unique Traits
1.	IA3010 (III)	Jacques J285 x Northrup King S29-39	F5	
2.	IA2052 (II)	Northrup King S24-92 x Parker	F5	
3.	IA3014 (SCN)	LN90-4366 x IA3005	?	SCN
4.	Macon (L)	Sherman x Resnik	F5	
5.	A00-811015	Pioneer P9233 x LN94-10470	F5	
6.	A00-812013	Pioneer P9321 x IA2036	F5	
7.	A00-812052	Pioneer P9321 x IA2038	F5	
8.	A00-911043	Pioneer P9233 x LN94-10470	F5	
9.	A00-912026	Pioneer P9321 x IA2038	F5	
10.	A00-912027	Pioneer P9321 x IA2038	F5	
11.	A00-912028	Pioneer P9321 x IA2038	F5	
12.	A00-912029	Pioneer P9321 x IA2038	F5	
13.	A00-912032	Pioneer P9321 x IA2038	F5	
14.	A00-912033	Pioneer P9321 x IA2038	F5	
15.	A00-912045	Pioneer P9321 x Pioneer P9233	F5	
16.	A00-912046	Pioneer P9321 x A95-485020	F5	
17.	A00-912049	Pioneer P9321 x IA2038	F5	
18.	A00-912050	Pioneer P9321 x IA2038	F5	
19.	A00-912051	Pioneer P9321 x IA2038	F5	
20.	C2011	C1891 x IA2021	F5	fan
21.	C2012	C1891 x IA2021	F5	fan
22.	C2015	C1891 x IA2021	F5	fan
23.	C2016	C1891 x IA2021	F5	fan
24.	C2017	C1891 x IA2021	F5	fan
25.	C2018	Savoy x CRS3C6-157-10-1	F5	
26.	C2019	Savoy x CRS3C6-157-10-1	F5	
27.	HF99-019	IA 2021 X Archer	F5	Rps1k, BSR
28.	HF99-032	Blackjack 21 X A92-727017	F5	
29.	K1508	Asgrow A4715 x DP3478	F5	
30.	K1509	Macon x U93-3122	F5	
31.	K1510	DP3478 x Sherman	F5	
32.	K1511	Macon x U93-3122	F5	
33.	K1512	Macon x IA2022	F5	
34.	K1513	Macon x IA2022	F5	
35.	K1514	Macon x U93-3122	F5	
36.	K1515	Pioneer P9451 x DP3478	F5	
37.	LN98-2452	PI 567630B x LN92-6298	F5	

PRELIMINARY TEST IIIA, 2001  
DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	Shattering Score Manhattan	PR Lafayette		PS Lafayette	P&SB
			Race 4	Race 7	a %	n %
IA3010 (III)	PTTDYBI+GrI	1.0	S	R	18	8
IA2052 (II)	WGBIYBfI	2.0	S	S	70	14
IA3014 (SCN)	WTTDYBII	1.0	S	R	50	12
Macon (L)	WTBIYBII	1.0	S	S	26	14
A00-811015	WTBDYBrI	2.0	S	S	46	2
A00-812013	PGBDYI	1.0	R	R	26	0
A00-812052	PTBDYBrI	1.0	S	S	16	0
A00-911043	WGBIYYI	0.0	S	H	36	6
A00-912026	PGBDYBrI	1.0	H	S	6	6
A00-912027	PTBDYBrI	1.0	S	H	14	4
A00-912028	PTBDYBrI	2.0	S	S	12	0
A00-912029	PTBDYBrI	1.0	S	S	12	0
A00-912032	PTBDYBrI	2.0	S	S	22	0
A00-912033	PTBIYBrI	2.0	S	S	20	6
A00-912045	PTBDYBrI	1.0	S	S	24	2
A00-912046	PTBDYBrI	1.0	S	S	24	8
A00-912049	PTBSYBrI	1.0	S	S	22	2
A00-912050	PTBSYBrI	1.0	S	H	26	4
A00-912051	PGBSYBrI	1.0	S	S	18	2
C2011	PTTDYBII	2.0	R	R	34	2
C2012	WTTSYBII	2.0	R	R	20	2
C2015	WTTDYBII	2.0	R	R	12	8
C2016	PTBIYBII	1.0	R	R	44	2
C2017	WTTDYBII	2.0	R	R	60	4
C2018	PTTBDYBII	1.0	R	S	24	0
C2019	PTBDYBII	1.0	S	S	16	6
HF99-019	PGTSYIbI	1.0	R	R	24	0
HF99-032	PTBDYBII	1.0	S	S	10	0
K1508	PGBDYBrI	1.0	S	S	4	2
K1509	WTBDYBII	1.0	S	S	30	4
K1510	WT+GB+TDYBrI	1.0	S	S	16	0
K1511	PTBDYBrI	1.0	S	S	22	6
K1512	WTBIYBII	1.0	S	S	16	0
K1513	PTBDYBII	1.0	H	S	22	10
K1514	WTBDYBII	1.0	S	S	26	8
K1515	WT+GBDYBII	1.0	S	S	10	4
LN98-2452	WTB+TDYBII	3.0	H	R	26	2

## PRELIMINARY TEST IIIA, 2001

## REGIONAL SUMMARY

No. of Tests Strain	Yield 9 bu/a	Rank 9 No.	Maturity 8 Date	Lodging 9 Score	Plant Height 8 In.	Seed Size 9 g/100	Seed Quality 5 Score	Green Stem 4 Score	Composition	
									Protein 3 %	Oil 3 %
IA3010 (III)	55.1	30	9/27	1.3	31	14.9	2.1	1.4	38.4	20.7
IA2052 (II)	55.3	29	-8.6	1.7	38	14.7	1.7	1.3	39.8	22.0
IA3014 (SCN)	58.0	20	-2.5	1.9	38	14.1	1.8	2.4	40.1	20.9
Macon (L)	63.3	1	2.5	1.7	38	16.2	1.8	1.5	41.1	20.4
A00-811015	52.5	36	-3.6	1.8	42	12.0	1.8	2.0	39.3	21.2
A00-812013	56.1	25	-4.5	1.5	35	15.1	2.2	1.8	40.4	21.0
A00-812052	60.2	9	-2.6	1.6	37	13.6	1.9	1.0	40.8	20.1
A00-911043	54.7	33	0.6	1.9	42	11.7	1.8	1.5	41.0	20.2
A00-912026	62.7	2	-2.4	1.6	39	13.6	1.9	1.0	41.1	20.2
A00-912027	59.3	13	-3.1	1.6	37	13.6	2.1	1.5	41.6	19.9
A00-912028	60.0	10	-2.1	1.5	37	13.6	1.9	1.3	41.0	20.1
A00-912029	62.2	4	-1.8	1.7	38	13.8	1.9	1.8	41.3	19.6
A00-912032	60.3	7	-3.1	1.7	38	13.7	1.7	1.5	41.3	19.9
A00-912033	60.4	6	-1.5	1.6	39	13.4	1.9	2.1	41.0	20.2
A00-912045	58.8	16	-1.8	1.8	37	14.6	2.2	1.8	41.1	19.8
A00-912046	60.7	5	-1.0	1.7	38	13.5	1.9	1.8	40.1	20.7
A00-912049	60.3	7	-2.0	1.7	38	13.7	1.9	1.3	41.4	19.9
A00-912050	59.8	11	-1.8	1.6	38	14.0	2.0	1.3	40.9	20.1
A00-912051	58.5	17	-2.0	1.7	38	13.7	2.0	1.4	41.6	19.7
C2011	59.4	12	-3.3	2.0	39	14.6	1.8	2.3	39.2	21.8
C2012	56.3	24	0.4	1.9	41	13.8	1.6	1.0	39.5	21.5
C2015	54.5	34	-0.3	1.9	44	13.1	1.9	2.0	39.4	21.3
C2016	58.4	19	-6.3	1.7	37	14.7	1.8	1.5	40.5	21.0
C2017	59.1	15	-6.8	1.6	38	15.3	1.9	2.0	40.6	21.7
C2018	55.1	30	2.9	2.3	45	14.6	1.9	1.8	43.7	19.6
C2019	55.9	28	0.8	2.3	41	15.8	2.0	1.8	43.8	19.6
HF99-019	57.1	21	-3.6	1.8	42	14.8	2.2	1.5	39.7	20.9
HF99-032	58.5	17	0.6	1.8	45	13.4	2.0	1.9	40.4	19.9
K1508	59.2	14	4.1	1.5	38	15.5	2.3	1.8	40.8	20.3
K1509	56.1	25	3.4	1.9	37	14.3	1.7	1.9	41.0	20.4
K1510	56.9	22	3.0	1.5	37	14.7	1.9	1.4	40.6	20.5
K1511	56.4	23	0.3	1.8	35	15.9	2.1	1.5	40.7	20.7
K1512	54.4	35	0.5	1.6	37	17.0	2.0	1.8	39.8	21.4
K1513	54.9	32	4.1	1.8	43	14.6	2.0	2.0	40.4	20.8
K1514	62.6	3	3.9	1.8	39	15.7	1.5	1.8	39.5	21.0
K1515	56.1	25	3.4	1.7	38	14.5	1.9	1.9	41.2	19.6
LN98-2452	45.8	37	-9.9	2.4	34	15.1	2.0	1.4	40.4	20.6

140.5 Days After Planting

## PRELIMINARY TEST IIIA, 2001

## YIELD (bu/a)

Strain	Mean 9 Tests	Ames IA	Carlisle IA	Urbana IL	Lafayette IN	Manhattan KS
IA3010 (III)	55.1	60.5	59.7	51.2	36.0	52.0
IA2052 (II)	55.3	59.6	64.6	47.6	40.8	61.0
IA3014 (SCN)	58.0	57.3	61.1	56.4	48.7	50.3
Macon (L)	63.3	67.2	59.9	53.2	62.2	63.7
A00-811015	52.5	60.7	59.1	44.0	44.8	38.3
A00-812013	56.1	55.5	68.3	55.6	45.3	59.2
A00-812052	60.2	68.5	68.3	54.9	46.6	57.8
A00-911043	54.7	51.2	65.4	50.0	49.9	50.2
A00-912026	62.7	63.3	69.3	52.8	47.7	59.8
A00-912027	59.3	58.4	69.5	55.2	49.3	55.2
A00-912028	60.0	62.5	69.5	46.8	48.9	56.1
A00-912029	62.2	69.6	67.1	59.8	50.0	61.4
A00-912032	60.3	63.8	64.6	58.7	52.2	57.4
A00-912033	60.4	62.4	68.2	50.9	49.9	48.5
A00-912045	58.8	64.2	62.2	52.9	42.2	62.7
A00-912046	60.7	66.1	69.3	56.9	49.3	51.6
A00-912049	60.3	68.4	63.9	55.3	52.6	51.6
A00-912050	59.8	61.6	69.6	53.4	50.2	52.9
A00-912051	58.5	59.0	70.5	53.3	57.5	45.4
C2011	59.4	61.4	68.5	51.1	52.4	55.2
C2012	56.3	59.6	61.7	46.2	51.6	53.2
C2015	54.5	55.1	57.0	41.8	50.8	51.5
C2016	58.4	57.0	63.5	46.3	53.8	48.2
C2017	59.1	56.0	65.8	48.8	51.3	56.0
C2018	55.1	47.3	56.2	48.5	51.7	58.1
C2019	55.9	61.4	56.8	48.1	49.0	44.1
HF99-019	57.1	54.4	62.8	48.0	46.6	53.0
HF99-032	58.5	59.3	65.8	47.1	53.0	52.8
K1508	59.2	63.3	66.0	53.1	55.9	48.3
K1509	56.1	52.6	56.1	49.5	47.0	55.2
K1510	56.9	62.0	60.6	50.5	51.9	43.6
K1511	56.4	60.6	61.8	50.5	51.5	37.9
K1512	54.4	54.8	63.0	51.2	51.7	41.6
K1513	54.9	56.3	57.8	45.1	54.4	34.5
K1514	62.6	58.6	67.6	55.7	65.3	45.7
K1515	56.1	58.9	58.9	50.6	55.5	45.0
LN98-2452	45.8	54.9	56.8	39.4	37.9	35.2
C.V. (%)		8.1	7.0	6.4	9.0	13.9
L.S.D. (5%)		9.6	9.1	6.6	9.2	14.3
Row Sp. (In.)		27	27	30	24	30
Rows/Plot		4	4	4	4	4
Reps		2	2	2	2	2

PRELIMINARY TEST IIIA, 2001

YIELD (bu/a)

Strain	Kingdom City MO	Goehner NE	Plymouth NE	So. Charles- ton OH
IA3010 (III)	40.7	91.1	36.0	68.8
IA2052 (II)	33.6	83.4	37.1	70.3
IA3014 (SCN)	48.8	80.3	44.5	74.8
Macon (L)	62.5	76.8	47.3	76.7
A00-811015	37.4	77.9	37.0	73.5
A00-812013	35.6	73.0	38.4	73.8
A00-812052	37.7	87.9	43.9	75.8
A00-911043	38.9	78.2	36.1	72.0
A00-912026	51.7	88.2	54.3	77.1
A00-912027	36.0	90.7	44.9	74.7
A00-912028	45.1	87.5	46.5	77.3
A00-912029	42.3	87.9	45.1	76.7
A00-912032	37.2	88.6	44.2	75.8
A00-912033	46.2	90.6	51.1	76.0
A00-912045	38.8	86.8	43.8	75.6
A00-912046	46.6	89.1	42.8	74.2
A00-912049	43.9	91.9	40.3	75.1
A00-912050	47.3	82.8	43.0	77.8
A00-912051	41.4	89.5	40.3	70.0
C2011	46.3	75.9	55.2	68.3
C2012	38.7	79.1	48.3	67.9
C2015	48.6	76.3	39.6	69.7
C2016	46.4	83.3	52.7	74.3
C2017	47.9	77.2	54.7	73.8
C2018	49.5	73.7	40.7	70.1
C2019	55.0	75.1	43.2	70.7
HF99-019	45.8	79.1	48.5	76.0
HF99-032	47.4	83.1	44.5	73.7
K1508	61.8	81.6	31.1	71.3
K1509	55.9	76.9	43.4	68.4
K1510	53.0	80.2	40.8	69.5
K1511	50.0	79.4	35.3	80.3
K1512	37.3	74.4	42.3	73.6
K1513	60.4	71.1	38.7	75.5
K1514	50.6	89.5	47.4	82.6
K1515	46.5	77.1	39.3	73.0
LN98-2452	34.1	67.0	25.0	62.1
C.V. (%)	6.4	6.3	11.9	4.7
L.S.D. (5%)	4.9	10.9	10.4	7.0
Row Sp. (In.)	30	30	30	7.5
Rows/Plot	4	4	4	8
Reps	2	2	2	2

## PRELIMINARY TEST IIIA, 2001

## YIELD RANK

Strain	Yield Rank	Ames IA	Carlisle IA	Urbana IL	Lafayette IN	Manhattan KS
IA3010 (III)	30	18	29	16	37	19
IA2052 (II)	29	19	17	29	35	4
IA3014 (SCN)	20	26	26	4	27	23
Macon (L)	1	4	28	12	2	1
A00-811015	36	16	30	35	33	34
A00-812013	25	30	8	6	32	6
A00-812052	9	2	8	9	30	8
A00-911043	33	36	16	23	21	24
A00-912026	2	8	5	15	28	5
A00-912027	13	25	3	8	23	12
A00-912028	10	10	3	31	26	10
A00-912029	4	1	12	1	20	3
A00-912032	7	7	17	2	11	9
A00-912033	6	11	10	19	21	25
A00-912045	16	6	23	14	34	2
A00-912046	5	5	5	3	23	20
A00-912049	7	3	19	7	9	20
A00-912050	11	13	2	10	19	17
A00-912051	17	22	1	11	3	29
C2011	12	14	7	18	10	12
C2012	24	19	25	33	15	15
C2015	34	31	33	36	18	22
C2016	19	27	20	32	7	27
C2017	15	29	14	25	17	11
C2018	30	37	36	26	13	7
C2019	28	14	34	27	25	31
HF99-019	21	34	22	28	30	16
HF99-032	17	21	14	30	8	18
K1508	14	8	13	13	4	26
K1509	25	35	37	24	29	12
K1510	22	12	27	22	12	32
K1511	23	17	24	22	16	35
K1512	35	33	21	17	13	33
K1513	32	28	32	34	6	37
K1514	3	24	11	5	1	28
K1515	25	23	31	20	5	30
LN98-2452	37	32	34	37	36	36



PRELIMINARY TEST IIIA, 2001

YIELD RANK

Strain	Kingdom City MO	Goehner NE	Plymouth NE	So. Charles- ton OH
IA3010 (III)	26	2	34	33
IA2052 (II)	37	14	31	28
IA3014 (SCN)	11	19	13	15
Macon (L)	1	29	9	6
A00-811015	31	25	32	23
A00-812013	35	35	30	19
A00-812052	30	10	16	10
A00-911043	27	24	33	25
A00-912026	7	9	3	5
A00-912027	34	3	12	16
A00-912028	22	12	10	4
A00-912029	24	10	11	6
A00-912032	33	8	15	10
A00-912033	20	4	5	8
A00-912045	28	13	17	12
A00-912046	16	7	21	18
A00-912049	23	1	25	14
A00-912050	15	17	20	3
A00-912051	25	5	25	30
C2011	19	31	1	35
C2012	29	22	7	36
C2015	12	30	27	31
C2016	18	15	4	17
C2017	13	26	2	19
C2018	10	34	24	29
C2019	5	32	19	27
HF99-019	21	22	6	8
HF99-032	14	16	13	21
K1508	2	18	36	26
K1509	4	28	18	34
K1510	6	20	23	32
K1511	9	21	35	2
K1512	32	33	22	22
K1513	3	36	29	13
K1514	8	5	8	1
K1515	17	27	28	24
LN98-2452	36	37	37	37

PRELIMINARY TEST IIIA, 2001

MATURITY (date)

Strain	Mean 8 Tests	Ames IA	Carlisle IA	Urbana IL	Lafayette IN	Manhattan KS
IA3010 (III)	9/27	10/3		9/22	10/1	9/25
IA2052 (II)	-8.6	-10		-12	-11	-8
IA3014 (SCN)	-2.5	-2		0	-3	-4
Macon (L)	2.5	3		4	+2	5
A00-811015	-3.6	-5		-5	0	-8
A00-812013	-4.5	-6		-7	-9	-4
A00-812052	-2.6	-3		-5	-4	-3
A00-911043	0.6	-3		1	+3	1
A00-912026	-2.4	-3		-3	-1	-4
A00-912027	-3.1	-3		-4	-3	-7
A00-912028	-2.1	-3		-3	-1	-2
A00-912029	-1.8	-3		-4	-2	-6
A00-912032	-3.1	-3		-3	-1	-9
A00-912033	-1.5	-3		-3	-1	-3
A00-912045	-1.8	-3		-2	-1	-5
A00-912046	-1.0	-3		-1	-1	-3
A00-912049	-2.0	-3		-4	-1	-2
A00-912050	-1.8	-2		-4	-2	-2
A00-912051	-2.0	-3		-3	0	-2
C2011	-3.3	-3		-2	-4	-9
C2012	0.4	1		0	+1	0
C2015	-0.3	-1		1	0	-2
C2016	-6.3	-9		-4	-4	-11
C2017	-6.8	-9		-6	-8	-8
C2018	2.9	1		4	+6	5
C2019	0.8	1		3	+3	-1
HF99-019	-3.6	-3		-4	-6	-6
HF99-032	0.6	2		2	+3	-2
K1508	4.1	6		4	+5	6
K1509	3.4	4		5	+2	6
K1510	3.0	6		6	+5	-2
K1511	0.3	1		1	+2	1
K1512	0.5	0		2	+1	3
K1513	4.1	4		7	+8	4
K1514	3.9	6		5	+5	6
K1515	3.4	3		6	+4	5
LN98-2452	-9.9	-14		-11	-15	-11
Date Planted	5/9	5/10		5/1	5/15	5/9
Days to Mature	141	146		144	139	139

PRELIMINARY TEST IIIA, 2001

MATURITY (date)

Strain	Kingdom City MO	Goehner NE	Plymouth NE	So. Charles- ton OH
IA3010 (III)	9/23	10/3	9/27	9/25
IA2052 (II)	-6	-10	-11	-12
IA3014 (SCN)	-4	-6	-3	-1
Macon (L)	0	0	6	2
A00-811015	-5	-1	-3	-2
A00-812013	-6	-4	-3	-6
A00-812052	-5	1	-3	-3
A00-911043	-1	0	2	5
A00-912026	-5	1	-3	-2
A00-912027	-6	1	-3	-3
A00-912028	-5	0	-1	-3
A00-912029	-3	1	3	-2
A00-912032	-5	0	-3	-2
A00-912033	-4	1	3	-3
A00-912045	-4	1	0	-1
A00-912046	-3	2	1	-1
A00-912049	-5	1	-1	-2
A00-912050	-3	2	-3	-2
A00-912051	-4	0	-3	-1
C2011	-5	-5	-4	2
C2012	-1	0	2	1
C2015	0	1	-3	2
C2016	-7	-7	-8	-4
C2017	-6	-9	-10	-6
C2018	2	2	4	5
C2019	-1	-3	2	5
HF99-019	-3	-4	-2	-7
HF99-032	-2	2	0	3
K1508	4	3	4	6
K1509	0	4	2	6
K1510	1	2	4	7
K1511	-2	1	-3	3
K1512	-1	1	2	-3
K1513	3	3	2	10
K1514	1	4	2	7
K1515	2	2	2	7
LN98-2452	-3	-12	-18	-10
Date Planted	5/3	5/25	5/14	5/2
Days to Mature	143	131	136	146

## PRELIMINARY TEST IIIA, 2001

## LODGING (score)

Strain	Mean 9 Tests	Ames IA	Carlisle IA	Urbana IL	Lafayette IN	Manhattan KS
IA3010 (III)	1.3	2.3	2.3	1.0	1.5	1.0
IA2052 (II)	1.7	1.8	2.8	1.5	1.8	1.0
IA3014 (SCN)	1.9	2.3	2.3	2.5	1.5	1.0
Macon (L)	1.7	2.3	2.8	1.5	1.5	1.5
A00-811015	1.8	2.0	2.3	1.8	2.0	1.0
A00-812013	1.5	1.5	2.5	2.0	1.0	1.0
A00-812052	1.6	1.8	2.5	2.0	1.0	1.0
A00-911043	1.9	1.8	2.5	2.3	2.3	1.5
A00-912026	1.6	1.8	2.3	1.8	1.8	1.0
A00-912027	1.6	1.5	2.3	1.8	1.5	1.0
A00-912028	1.5	2.0	2.3	1.5	1.3	1.0
A00-912029	1.7	1.8	2.5	1.5	2.3	1.0
A00-912032	1.7	2.0	2.5	2.0	1.8	1.0
A00-912033	1.6	2.0	2.3	1.8	1.5	1.0
A00-912045	1.8	2.3	2.3	2.3	1.8	1.5
A00-912046	1.7	1.8	2.8	2.3	1.3	1.0
A00-912049	1.7	1.8	2.5	1.5	1.8	1.0
A00-912050	1.6	2.0	2.3	1.8	1.3	1.0
A00-912051	1.7	1.5	2.3	2.0	2.3	1.0
C2011	2.0	1.8	2.8	2.5	1.8	1.5
C2012	1.9	2.0	2.8	2.0	1.8	1.5
C2015	1.9	2.0	2.5	2.3	1.8	1.5
C2016	1.7	2.3	2.8	2.0	1.3	1.5
C2017	1.6	2.0	2.0	2.0	1.3	1.0
C2018	2.3	2.5	2.8	2.5	2.3	2.0
C2019	2.3	3.0	3.0	2.3	2.5	2.0
HF99-019	1.8	2.0	2.0	2.5	1.8	1.5
HF99-032	1.8	2.0	2.3	2.3	1.3	1.5
K1508	1.5	2.0	2.0	1.3	1.0	1.5
K1509	1.9	2.3	3.0	2.0	1.8	1.5
K1510	1.5	2.0	2.3	1.5	1.5	1.0
K1511	1.8	2.5	2.8	1.5	2.5	1.0
K1512	1.6	2.3	2.5	1.3	1.5	1.5
K1513	1.8	2.5	2.3	2.0	1.8	1.0
K1514	1.8	2.3	2.5	1.8	1.8	1.0
K1515	1.7	3.0	2.5	1.8	1.0	1.0
LN98-2452	2.4	2.8	3.3	2.5	1.8	2.5

## PRELIMINARY TEST IIIA, 2001

## LODGING (score)

Strain	Kingdom City MO	Goehner NE	Plymouth NE	So. Charles- ton OH
IA3010 (III)	1.0	1.0	1.0	1.0
IA2052 (II)	1.0	2.0	1.0	2.5
IA3014 (SCN)	2.0	2.5	1.0	2.3
Macon (L)	1.0	1.5	1.0	2.0
A00-811015	1.0	2.0	1.5	2.8
A00-812013	1.0	1.0	1.0	2.3
A00-812052	1.0	2.0	1.0	2.0
A00-911043	1.0	2.5	1.0	2.0
A00-912026	1.0	2.0	1.0	2.0
A00-912027	1.0	2.0	1.0	2.5
A00-912028	1.0	1.5	1.0	2.0
A00-912029	1.0	2.0	1.0	2.3
A00-912032	1.0	2.0	1.0	2.3
A00-912033	1.0	1.5	1.0	2.5
A00-912045	1.0	2.0	1.0	2.3
A00-912046	1.0	2.0	1.0	2.3
A00-912049	1.0	2.5	1.0	2.0
A00-912050	1.0	2.0	1.0	2.3
A00-912051	1.0	2.0	1.0	2.3
C2011	1.0	2.0	1.5	2.8
C2012	1.0	2.0	2.0	2.3
C2015	1.0	2.5	1.0	2.5
C2016	1.0	1.5	1.0	2.0
C2017	1.0	2.0	1.5	2.0
C2018	1.0	3.0	1.0	3.3
C2019	1.0	3.0	1.0	3.3
HF99-019	1.0	2.0	1.0	2.3
HF99-032	1.0	2.0	1.0	2.5
K1508	1.0	2.0	1.0	1.5
K1509	1.0	2.0	1.0	2.3
K1510	1.0	1.5	1.0	1.5
K1511	1.0	2.0	1.0	1.8
K1512	1.0	2.0	1.0	1.5
K1513	1.0	2.0	1.0	2.5
K1514	1.0	2.5	1.0	2.0
K1515	1.0	2.0	1.0	2.3
LN98-2452	1.0	2.5	1.5	4.0

PRELIMINARY TEST IIIA, 2001

PLANT HEIGHT (inches)

Strain	Mean 8 Tests	Ames IA	Carlisle IA	Urbana IL	Lafay- ette IN	Man- hattan KS
IA3010 (III)	31	34	37	32	32	30
IA2052 (II)	38	41	47	37	37	33
IA3014 (SCN)	38	38	44	38	33	40
Macon (L)	38	40	47	38	37	32
A00-811015	42	46	53	41	40	33
A00-812013	35	37	48	33	35	31
A00-812052	37	37	47	36	35	33
A00-911043	42	42	52	39	40	37
A00-912026	39	40	48	37	36	35
A00-912027	37	39	46	38	36	33
A00-912028	37	40	46	35	35	35
A00-912029	38	39	46	34	38	33
A00-912032	38	40	46	37	36	35
A00-912033	39	40	46	37	36	34
A00-912045	37	41	45	39	33	33
A00-912046	38	41	47	37	37	36
A00-912049	38	42	46	37	38	32
A00-912050	38	42	46	36	33	34
A00-912051	38	39	47	39	37	31
C2011	39	42	45	37	35	36
C2012	41	43	48	40	38	38
C2015	44	44	51	44	40	42
C2016	37	39	44	38	33	34
C2017	38	41	48	42	36	31
C2018	45	49	57	44	43	40
C2019	41	43	52	39	36	39
HF99-019	42	42	53	40	40	40
HF99-032	45	47	55	41	42	41
K1508	38	39	46	41	36	32
K1509	37	42	46	37	36	29
K1510	37	40	45	40	35	26
K1511	35	38	45	36	36	27
K1512	37	44	49	36	36	30
K1513	43	44	55	44	43	31
K1514	39	43	51	38	40	30
K1515	38	42	47	38	34	31
LN98-2452	34	36	40	34	34	31

PRELIMINARY TEST IIIA, 2001

PLANT HEIGHT (inches)

Strain	Kingdom City MO	Goehner NE	Plymouth NE	So. Charles- ton OH
IA3010 (III)	26	28		32
IA2052 (II)	31	40		35
IA3014 (SCN)	36	38		38
Macon (L)	32	40		37
A00-811015	32	47		41
A00-812013	27	37		31
A00-812052	29	39		37
A00-911043	37	47		43
A00-912026	32	42		38
A00-912027	30	41		36
A00-912028	29	39		38
A00-912029	30	41		40
A00-912032	29	41		37
A00-912033	34	41		40
A00-912045	30	38		36
A00-912046	28	40		38
A00-912049	30	41		36
A00-912050	32	41		39
A00-912051	31	42		38
C2011	34	39		40
C2012	36	41		40
C2015	40	43		44
C2016	30	37		39
C2017	30	39		38
C2018	31	49		43
C2019	33	44		41
HF99-019	40	42		40
HF99-032	39	48		49
K1508	31	40		38
K1509	26	41		36
K1510	34	40		35
K1511	23	37		34
K1512	26	36		39
K1513	35	47		46
K1514	26	41		39
K1515	32	38		41
LN98-2452	25	34		36

## PRELIMINARY TEST IIIA, 2001

## SEED SIZE (g/100)

Strain	Mean 9 Tests	Ames IA	Carlisle IA	Urbana IL	Lafay- ette IN	Man- hattan KS
IA3010 (III)	14.9	14.5	15.7	12.8	16.2	15.8
IA2052 (II)	14.7	14.3	15.3	13.8	15.0	15.7
IA3014 (SCN)	14.1	13.7	14.9	13.7	16.6	13.2
Macon (L)	16.2	16.0	17.3	15.4	17.9	17.3
A00-811015	12.0	11.2	12.3	11.4	13.9	11.2
A00-812013	15.1	13.9	16.2	13.8	17.2	16.4
A00-812052	13.6	12.6	14.2	13.1	15.8	13.7
A00-911043	11.7	10.6	12.4	11.0	12.8	12.0
A00-912026	13.6	12.7	14.1	12.3	16.1	14.5
A00-912027	13.6	12.5	14.0	12.3	16.3	13.8
A00-912028	13.6	12.5	14.0	12.3	15.9	14.1
A00-912029	13.8	12.5	13.5	12.6	15.2	13.6
A00-912032	13.7	12.9	13.3	12.4	15.9	13.5
A00-912033	13.4	12.6	14.0	12.2	15.2	13.8
A00-912045	14.6	13.3	13.9	14.5	16.5	15.7
A00-912046	13.5	12.6	14.2	11.7	15.6	13.4
A00-912049	13.7	12.8	13.5	13.0	15.9	14.3
A00-912050	14.0	13.7	14.4	12.6	15.9	14.7
A00-912051	13.7	12.4	14.2	13.0	15.4	14.0
C2011	14.6	14.0	15.7	12.9	16.3	14.3
C2012	13.8	13.3	14.2	12.2	15.4	13.7
C2015	13.1	12.5	13.9	10.5	15.1	13.3
C2016	14.7	14.2	16.2	12.8	16.6	15.8
C2017	15.3	15.4	17.6	13.0	16.8	15.8
C2018	14.6	13.6	14.8	12.6	17.4	16.4
C2019	15.8	14.6	16.2	13.0	17.5	16.1
HF99-019	14.8	14.1	15.7	12.7	16.9	15.8
HF99-032	13.4	12.0	13.7	12.1	15.9	13.7
K1508	15.5	14.3	16.1	13.4	17.5	16.0
K1509	14.3	13.7	14.8	12.4	16.5	16.7
K1510	14.7	14.3	15.1	13.6	16.6	14.5
K1511	15.9	15.5	16.4	13.1	17.4	19.2
K1512	17.0	17.0	18.6	14.4	19.1	17.9
K1513	14.6	14.1	14.5	13.2	16.9	16.4
K1514	15.7	15.4	16.2	13.6	18.3	16.9
K1515	14.5	13.7	14.5	12.6	18.3	14.6
LN98-2452	15.1	15.5	17.6	13.7	14.6	15.5



## PRELIMINARY TEST IIIA, 2001

## SEED SIZE (g/100)

Strain	Kingdom City MO	Goehner NE	Plymouth NE	So. Charles- ton OH
IA3010 (III)	15.0	14.9	15.0	14.6
IA2052 (II)	14.0	17.8	13.5	12.9
IA3014 (SCN)	13.0	13.9	12.9	15.4
Macon (L)	15.0	15.2	14.3	17.4
A00-811015	13.0	12.4	10.2	12.4
A00-812013	15.0	14.4	14.3	14.3
A00-812052	14.0	12.9	13.3	13.2
A00-911043	13.0	11.4	10.4	11.7
A00-912026	14.0	12.6	13.0	13.5
A00-912027	14.0	13.0	13.1	13.5
A00-912028	14.0	13.0	13.0	13.8
A00-912029	15.0	13.9	13.5	14.1
A00-912032	15.0	13.2	13.0	13.9
A00-912033	13.0	12.7	13.2	13.7
A00-912045	16.0	13.5	14.1	14.3
A00-912046	14.0	13.4	12.9	13.6
A00-912049	14.0	13.1	13.2	13.8
A00-912050	14.0	13.1	13.4	14.3
A00-912051	14.0	13.4	13.7	13.3
C2011	15.0	14.0	14.3	14.9
C2012	16.0	12.6	12.6	13.9
C2015	15.0	12.9	11.7	13.1
C2016	14.0	14.4	13.1	14.8
C2017	15.0	15.1	14.0	15.2
C2018	16.0	13.9	13.2	13.8
C2019	16.0	15.1	16.2	17.7
HF99-019	14.0	14.7	13.8	15.1
HF99-032	14.0	13.0	12.6	13.5
K1508	18.0	14.3	15.0	14.9
K1509	14.0	13.3	12.9	14.0
K1510	15.0	14.6	13.4	15.0
K1511	16.0	14.6	14.7	15.9
K1512	17.0	16.4	16.6	16.2
K1513	15.0	13.6	13.5	14.1
K1514	15.0	14.9	14.8	16.5
K1515	16.0	13.4	13.7	13.7
LN98-2452	13.0	15.8	13.2	16.9

## PRELIMINARY TEST IIIA, 2001

## SEED QUALITY (score)

Strain	Mean 5 Tests	Ames IA	Carlisle IA	Urbana IL	Lafay- ette IN	Man- hattan KS
IA3010 (III)	2.1			2.5	1.0	2.0
IA2052 (II)	1.7			1.5	1.0	2.0
IA3014 (SCN)	1.8			3.0	1.0	2.0
Macon (L)	1.8			2.5	1.0	2.0
A00-811015	1.8			2.0	1.0	2.0
A00-812013	2.2			2.5	1.5	2.0
A00-812052	1.9			3.0	1.0	2.0
A00-911043	1.8			3.0	1.0	2.0
A00-912026	1.9			3.0	1.0	2.0
A00-912027	2.1			3.0	1.0	2.0
A00-912028	1.9			3.0	1.0	2.0
A00-912029	1.9			3.0	1.0	2.0
A00-912032	1.7			3.0	1.0	2.0
A00-912033	1.9			3.0	1.0	2.0
A00-912045	2.2			3.5	1.0	3.0
A00-912046	1.9			3.0	1.0	2.0
A00-912049	1.9			3.0	1.0	2.0
A00-912050	2.0			3.0	1.0	2.0
A00-912051	2.0			3.0	1.0	2.0
C2011	1.8			2.0	1.0	2.0
C2012	1.6			1.5	1.0	2.0
C2015	1.9			2.5	1.0	2.0
C2016	1.8			2.0	1.0	2.0
C2017	1.9			2.0	1.0	2.0
C2018	1.9			2.0	1.0	2.0
C2019	2.0			2.5	1.0	2.0
HF99-019	2.2			3.0	1.0	3.0
HF99-032	2.0			3.0	1.0	2.0
K1508	2.3			2.5	1.0	3.0
K1509	1.7			2.5	1.0	2.0
K1510	1.9			2.5	1.0	2.0
K1511	2.1			2.5	1.0	3.0
K1512	2.0			2.0	1.0	2.0
K1513	2.0			2.0	1.0	3.0
K1514	1.5			2.0	1.0	2.0
K1515	1.9			2.0	1.0	3.0
LN98-2452	2.0			2.0	1.0	3.0

PRELIMINARY TEST IIIA, 2001

SEED QUALITY (score)

Strain	Kingdom City MO	Goehner NE	Plymouth NE	So. Charles- ton OH
IA3010 (III)	3.0			2.0
IA2052 (II)	2.0			2.0
IA3014 (SCN)	1.0			2.0
Macon (L)	2.0			1.5
A00-811015	2.0			2.0
A00-812013	3.0			2.0
A00-812052	2.0			1.5
A00-911043	1.0			2.0
A00-912026	2.0			1.5
A00-912027	3.0			1.5
A00-912028	2.0			1.5
A00-912029	2.0			1.5
A00-912032	1.0			1.5
A00-912033	2.0			1.5
A00-912045	2.0			1.5
A00-912046	2.0			1.5
A00-912049	2.0			1.5
A00-912050	2.0			2.0
A00-912051	2.0			2.0
C2011	2.0			2.0
C2012	2.0			1.5
C2015	2.0			2.0
C2016	2.0			2.0
C2017	2.0			2.5
C2018	2.0			2.5
C2019	2.0			2.5
HF99-019	2.0			2.0
HF99-032	2.0			2.0
K1508	3.0			2.0
K1509	1.0			2.0
K1510	2.0			2.0
K1511	2.0			2.0
K1512	3.0			2.0
K1513	2.0			2.0
K1514	1.0			1.5
K1515	2.0			1.5
LN98-2452	1.0			3.0

## PRELIMINARY TEST IIIA, 2001

## GREEN-STEM (score)

Strain	Mean 4 Tests	Ames IA	Carlisle IA	Urbana IL	Lafay- ette IN	Man- hattan KS
IA3010 (III)	1.4	2.0				
IA2052 (II)	1.3	1.0				
IA3014 (SCN)	2.4	1.0				
Macon (L)	1.5	2.0				
A00-811015	2.0	1.0				
A00-812013	1.8	2.0				
A00-812052	1.0	1.0				
A00-911043	1.5	2.0				
A00-912026	1.0	1.0				
A00-912027	1.5	1.0				
A00-912028	1.3	1.0				
A00-912029	1.8	1.0				
A00-912032	1.5	1.0				
A00-912033	2.1	1.0				
A00-912045	1.8	2.0				
A00-912046	1.8	2.0				
A00-912049	1.3	1.0				
A00-912050	1.3	1.0				
A00-912051	1.4	1.0				
C2011	2.3	1.0				
C2012	1.0	1.0				
C2015	2.0	2.0				
C2016	1.5	2.0				
C2017	2.0	1.0				
C2018	1.8	2.0				
C2019	1.8	1.0				
HF99-019	1.5	1.0				
HF99-032	1.9	2.0				
K1508	1.8	3.0				
K1509	1.9	1.0				
K1510	1.4	2.0				
K1511	1.5	2.0				
K1512	1.8	1.0				
K1513	2.0	2.0				
K1514	1.8	1.0				
K1515	1.9	3.0				
LN98-2452	1.4	1.0				

PRELIMINARY TEST IIIA, 2001

GREEN STEM (score)

Strain	Kingdom City MO	Goehner NE	Plymouth NE	So. Charles- ton OH
IA3010 (III)		1.0	1.0	1.5
IA2052 (II)		2.0	1.0	1.0
IA3014 (SCN)		3.0	3.0	2.5
Macon (L)		2.0	1.0	1.0
A00-811015		3.0	3.0	1.0
A00-812013		3.0	1.0	1.0
A00-812052		1.0	1.0	1.0
A00-911043		2.0	1.0	1.0
A00-912026		1.0	1.0	1.0
A00-912027		3.0	1.0	1.0
A00-912028		2.0	1.0	1.0
A00-912029		2.0	3.0	1.0
A00-912032		2.0	2.0	1.0
A00-912033		4.0	2.0	1.5
A00-912045		2.0	2.0	1.0
A00-912046		2.0	2.0	1.0
A00-912049		2.0	1.0	1.0
A00-912050		2.0	1.0	1.0
A00-912051		2.0	1.0	1.5
C2011		3.0	3.0	2.0
C2012		1.0	1.0	1.0
C2015		3.0	2.0	1.0
C2016		2.0	1.0	1.0
C2017		3.0	2.0	2.0
C2018		1.0	2.0	2.0
C2019		2.0	2.0	2.0
HF99-019		2.0	2.0	1.0
HF99-032		2.0	2.0	1.5
K1508		1.0	2.0	1.0
K1509		2.0	2.0	2.5
K1510		1.0	1.0	1.5
K1511		1.0	1.0	2.0
K1512		3.0	2.0	1.0
K1513		3.0	1.0	2.0
K1514		2.0	2.0	2.0
K1515		2.0	1.0	1.5
LN98-2452		2.0	1.0	1.5

PRELIMINARY TEST IIIA, 2001

PROTEIN (%)

Strain	Mean 3 Tests	Carlisle IA	Urbana IL	Lafayette IN
IA3010 (III)	38.4	38.1	39.5	37.7
IA2052 (II)	39.8	40.4	41.8	37.2
IA3014 (SCN)	40.1	38.9	42.3	39.2
Macon (L)	41.1	41.2	42.4	39.7
A00-811015	39.3	37.6	41.9	38.6
A00-812013	40.4	41.2	41.7	38.4
A00-812052	40.8	40.7	43.0	38.8
A00-911043	41.0	40.9	42.8	39.3
A00-912026	41.1	40.7	42.5	40.1
A00-912027	41.6	40.0	42.9	41.9
A00-912028	41.0	40.9	43.0	39.2
A00-912029	41.3	39.7	43.1	41.1
A00-912032	41.3	41.2	43.3	39.4
A00-912033	41.0	40.2	43.1	39.6
A00-912045	41.1	40.8	43.2	39.3
A00-912046	40.1	39.4	41.7	39.1
A00-912049	41.4	40.6	43.3	40.4
A00-912050	40.9	40.3	43.2	39.3
A00-912051	41.6	40.9	43.1	40.6
C2011	39.2	38.4	41.9	37.4
C2012	39.5	38.5	41.8	38.3
C2015	39.4	38.4	41.3	38.5
C2016	40.5	40.0	42.3	39.4
C2017	40.6	40.9	42.9	38.0
C2018	43.7	43.2	44.2	43.6
C2019	43.8	43.2	45.4	42.7
HF99-019	39.7	39.2	42.0	37.9
HF99-032	40.4	39.2	42.0	40.0
K1508	40.8	40.1	42.8	39.3
K1509	41.0	41.3	41.6	40.2
K1510	40.6	40.4	41.9	39.5
K1511	40.7	40.4	42.3	39.4
K1512	39.8	40.3	41.8	37.4
K1513	40.4	40.1	42.3	38.9
K1514	39.5	38.8	41.8	37.8
K1515	41.2	40.3	43.4	39.8
LN98-2452	40.4	41.3	43.2	36.7

## PRELIMINARY TEST IIIA, 2001

## OIL (%)

Strain	Mean 3 Tests	Carlisle IA	Urbana IL	Lafayette IN
IA3010 (III)	20.7	20.1	20.6	21.4
IA2052 (II)	22.0	21.2	21.8	23.1
IA3014 (SCN)	20.9	21.2	20.2	21.4
Macon (L)	20.4	19.7	20.4	21.1
A00-811015	21.2	21.3	20.5	21.8
A00-812013	21.0	20.0	20.7	22.2
A00-812052	20.1	19.8	19.3	21.2
A00-911043	20.2	19.8	19.9	21.0
A00-912026	20.2	20.2	19.7	20.7
A00-912027	19.9	20.0	19.5	20.2
A00-912028	20.1	19.7	19.5	21.0
A00-912029	19.6	19.8	19.1	20.0
A00-912032	19.9	19.6	19.0	21.0
A00-912033	20.2	20.2	19.6	20.8
A00-912045	19.8	19.4	18.9	21.1
A00-912046	20.7	20.5	20.4	21.2
A00-912049	19.9	19.6	19.3	20.7
A00-912050	20.1	19.8	19.4	21.1
A00-912051	19.7	19.7	19.2	20.4
C2011	21.8	21.8	20.6	23.0
C2012	21.5	21.3	20.8	22.5
C2015	21.3	21.4	20.6	22.0
C2016	21.0	20.9	20.5	21.8
C2017	21.7	21.2	20.7	23.1
C2018	19.6	19.2	19.8	19.9
C2019	19.6	19.2	19.4	20.2
HF99-019	20.9	20.5	20.2	22.0
HF99-032	19.9	19.8	19.5	20.5
K1508	20.3	20.1	19.9	20.9
K1509	20.4	20.0	20.0	21.0
K1510	20.5	20.5	19.9	21.0
K1511	20.7	20.5	20.1	21.4
K1512	21.4	20.5	20.5	23.2
K1513	20.8	20.5	20.2	21.6
K1514	21.0	20.7	20.3	21.9
K1515	19.6	19.8	18.9	20.2
LN98-2452	20.6	19.9	19.6	22.3

Preliminary Test IIIB, 2001

	Strain	Parentage	Generation Compositied	Unique Traits
1.	IA3010 (III)	Jacques J285 x Northrup King S29-39	F5	
2.	IA2052 (II)	Northrup King S24-92 x Parker	F5	
3.	Macon (L)	Sherman x Resnik	F5	
4.	NE3001	Colfax x A91-701035	F4	determinate
5.	Stout (dt1)	Sprite 87 x HC85-6577	F5	dt1
6.	E99113	IA2008 x Dairyland DSR-222	F5	
7.	E99132	A92-525014 x Dairyland DSR-277	F5	
8.	E99146	IA2021 x Dairyland DSR-277	F5	
9.	E99178	Colfax x AP3355	F5	
10.	E99246	Pioneer P9281 x Northrup King S19-90	F5	
11.	E99248	Pioneer P9281 x Northrup King S19-90	F5	
12.	E99279	IA2022 x Northrup King S19-90	F5	
13.	HC95-4329	HC85-164 (2) x Hobbit 87	BC1 F4	dt1
14.	HC97-175R	HC85-607 x HC78-676 BC	F4	dt1
15.	HC97-188R	HC85-606 x HC78-676 BC	F4	dt1
16.	HC97-245R	Charleston x HC74-634RE BC	F4	dt1
17.	HC97-545	HC83-4532 BC x Charleston BC	F4	dt1
18.	HC97-4358	Charleston BC x HC89-868	F4	dt1
19.	HC98-299	HC89-1523 x Charleston BC	F4	dt1
20.	HC98-303	HC89-1640 x Charleston BC	F4	dt1
21.	HC98-325	HC90-145 PR x Charleston BC	F4	dt1
22.	HC98-1019	Sprite 87 x HC85-6577	F4	dt1
23.	HC98-1025	Sprite 87 x HC85-6577	F4	dt1
24.	HC98-1046	Sprite 87 x HC85-6577	F4	dt1
25.	HC98-1048	Sprite 87 x HC85-6577	F4	dt1
26.	HC98-4448	HC85-606 x HC78-676 BC	F4	dt1
27.	LG97-9226	LG89-7629 x 9303	F6	
28.	LG97-9301	LG89-7793 x LG88-8958	F6	
29.	LG98-5481	PI 503.338 x Northrup King S42-30	F6	
30.	U99-002077	MSBP6S4	S5	
31.	U99-003002	MSBP6S4	S5	
32.	U99-005032	MSBP6S4	S5	
33.	U99-006063	MSBP6S4	S5	
34.	U99-009019	MSBP6S4	S5	
35.	U99-009051	MSBP6S4	S5	
36.	U99-045080	MSBP6S4	S5	
37.	U99-046024	MSBP6S4	S5	
38.	U99-046048	MSBP6S4	S5	
39.	U99-046063	MSBP6S4	S5	



PRELIMINARY TEST IIIB, 2001  
DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	Shattering Score Manhattan	PR Lafayette		PS Lafayette	P&SB
			Race 4	Race 7	a %	n %
IA3010 (III)	PTTDYBI+GrI	1.0	S	R	18	8
IA2052 (II)	WGBIYBfI	1.0	S	S	70	14
Macon (L)	WTBIYBII	1.0	S	S	26	14
NE3001	WGTSYBfD	1.0	H	R	20	8
Stout (dt1)	WTBIYBID	1.0	S	R	12	16
E99113	WTBSYBII	2.0	R	H	42	8
E99132	WTBDYBII	2.0	H	S	32	4
E99146	PT+GB+TDYBI+BfI	2.0	R	R	32	4
E99178	PTTDYBII	1.0	S	H	14	4
E99246	PTBIYBII	2.0	H	R	24	2
E99248	PTBDYBI+GrI	2.0	H	R	26	4
E99279	PGBILGrI	2.0	S	R	26	4
HC95-4329	PTBDYBID	1.0	R	R	10	0
HC97-175R	PTBIYBrD	1.0	R	R	4	4
HC97-188R	PTBDYBID	1.0	R	R	34	4
HC97-245R	WTTIYBID	1.0	S	H	6	0
HC97-545	WTTDYBID	1.0	R	R	0	0
HC97-4358	PTBIYBID	1.0	R	R	10	0
HC98-299	PTBDYBID	1.0	R	R	8	4
HC98-303	WTBIYBID	1.0	R	R	8	0
HC98-325	PTBDYBID	1.0	R	R	10	0
HC98-1019	WTBIYBID	1.0	S	S	42	0
HC98-1025	P+WTBDYBID	1.0	R	R	22	0
HC98-1046	P+WTBSYBID	1.0	R	R	4	0
HC98-1048	WTBIYBID	1.0	R	R	10	0
HC98-4448	WTTDYBrD	1.0	R	R	12	2
LG97-9226	PTBDYYI	1.0	R	H	36	0
LG97-9301	WTBDYBII	1.0	S	S	12	2
LG98-5481	PGTIYBII	1.0	S	H	8	0
U99-002077	PTTDYGrI	1.0	S	S	20	2
U99-003002	WTTSYBII	1.0	S	H	50	0
U99-005032	WGBDYBrI	1.0	S	S	20	2
U99-006063	PGTIYIbI	1.0	S	H	50	2
U99-009019	PT+GBIYBII	2.0	S	S	36	2
U99-009051	P+WT+GB+TDYIbI	1.0	R	S	48	0
U99-045080	PTBDYBII	2.0	H	S	32	6
U99-046024	WTBDYBII	2.0	S	S	36	4
U99-046048	WGBIYBII	1.0	R	R	30	28
U99-046063	WTBDYBII	1.0	R	R	24	6

## PRELIMINARY TEST IIIB, 2001

## REGIONAL SUMMARY

No. of Tests Strain	Yield 7 bu/a	Rank 7 No.	Maturity 8 Date	Lodging 9 Score	Plant Height 8 In.	Seed Size 9 g/100	Seed Quality 5 Score	Green Stem 4 Score	Composition	
									Protein 3 %	Oil 3 %
IA3010 (III)	53.3	35	9/27	1.3	29	14.7	2.0	1.4	39.3	20.6
IA2052 (II)	55.8	28	-8.1	1.8	36	14.4	1.7	2.0	39.2	22.2
Macon (L)	59.9	10	3.0	1.6	37	16.2	1.7	2.0	40.6	20.6
NE3001	60.3	4	-5.3	1.3	23	16.6	1.6	1.5	38.4	22.2
Stout (dt1)	54.2	32	-2.6	1.4	22	16.0	1.7	2.0	39.7	21.7
E99113	53.6	34	-8.4	1.5	36	13.2	2.3	1.8	40.1	21.0
E99132	60.2	6	-4.5	1.4	33	13.5	1.8	2.3	39.2	21.8
E99146	53.7	33	-5.8	1.3	34	13.6	1.8	2.0	41.7	20.5
E99178	58.4	17	-3.5	1.4	25	16.6	2.0	1.8	38.1	22.3
E99246	61.0	2	-5.4	1.3	32	17.0	2.3	1.4	39.8	21.5
E99248	61.2	1	-2.8	1.3	35	15.7	2.1	2.4	39.5	21.4
E99279	59.3	14	-5.4	1.4	37	15.7	2.3	1.5	39.2	21.0
HC95-4329	56.0	27	0.6	1.2	20	14.2	1.2	2.0	38.8	21.7
HC97-175R	52.5	37	-1.1	1.2	21	14.4	2.0	1.5	39.1	21.9
HC97-188R	56.7	22	-3.9	1.4	20	15.5	2.0	1.5	38.4	21.8
HC97-245R	54.4	30	1.3	1.3	21	17.6	1.7	2.4	41.0	21.2
HC97-545	60.0	8	2.3	1.5	22	16.3	1.6	1.6	39.6	21.1
HC97-4358	57.8	20	3.0	1.2	22	17.1	1.8	1.8	40.7	20.7
HC98-299	54.3	31	-0.5	1.2	20	14.7	1.4	2.5	39.6	21.8
HC98-303	60.9	3	2.3	1.5	21	15.6	1.4	1.6	38.8	22.0
HC98-325	58.3	18	3.4	1.3	21	15.8	1.5	2.0	39.5	22.5
HC98-1019	59.6	12	3.3	1.4	23	16.8	2.0	2.8	39.6	21.6
HC98-1025	59.5	13	1.0	1.3	20	15.3	1.8	2.4	38.6	21.7
HC98-1046	51.1	38	0.3	1.2	20	15.7	1.8	1.3	37.2	22.6
HC98-1048	50.4	39	1.5	1.3	19	16.4	1.6	2.6	38.5	21.7
HC98-4448	56.2	26	3.0	1.4	20	16.1	1.6	1.6	40.4	20.9
LG97-9226	57.6	21	-5.0	1.9	36	15.8	1.9	2.0	39.1	21.3
LG97-9301	59.7	11	2.9	1.6	36	16.1	1.6	1.8	40.1	20.9
LG98-5481	54.5	29	4.1	2.0	40	14.0	1.4	1.5	39.9	20.6
U99-002077	53.3	35	-8.6	1.3	29	15.3	1.8	2.0	39.6	21.6
U99-003002	59.2	15	-6.3	1.7	32	13.8	1.7	2.0	39.5	21.7
U99-005032	60.0	8	-3.0	1.4	34	13.8	1.8	2.3	39.5	21.4
U99-006063	56.6	24	-2.4	1.5	34	13.7	1.6	1.5	40.5	20.5
U99-009019	59.1	16	-7.6	1.3	34	13.4	1.7	1.8	37.9	22.5
U99-009051	56.4	25	-3.0	1.8	37	14.6	1.8	1.5	41.8	19.9
U99-045080	60.2	6	-4.4	1.5	33	15.0	1.6	1.8	40.3	21.0
U99-046024	58.2	19	0.3	1.3	33	15.8	1.7	1.6	40.9	20.8
U99-046048	56.7	22	7.1	1.7	39	17.0	1.4	1.9	40.8	20.5
U99-046063	60.3	4	-4.4	1.3	35	15.7	1.6	2.3	38.6	21.6

140.4 Days After Planting

PRELIMINARY TEST IIIB, 2001

YIELD (bu/a)

Strain	Mean 7 Tests	Ames IA	Carlisle IA	Urbana IL	Lafay- ette IN	Man- hattan KS
IA3010 (III)	53.3	45.3	60.6	51.1	28.6	42.8
IA2052 (II)	55.8	56.3	64.1	50.0	31.1	51.8
Macon (L)	59.9	52.0	60.2	56.5	51.3	51.1
NE3001	60.3	58.2	68.0	51.6	43.2	35.0
Stout (dt1)	54.2	44.5	66.4	56.7	43.0	16.8
E99113	53.6	57.4	63.8	40.6	40.8	44.3
E99132	60.2	61.4	68.6	52.6	42.0	53.2
E99146	53.7	49.1	60.3	42.1	39.2	44.1
E99178	58.4	60.5	61.6	49.8	37.1	45.9
E99246	61.0	63.8	69.4	51.7	46.0	41.5
E99248	61.2	57.5	66.5	52.1	48.0	63.2
E99279	59.3	60.3	65.9	54.6	50.2	53.3
HC95-4329	56.0	43.5	65.6	55.0	45.7	21.7
HC97-175R	52.5	32.9	70.2	53.5	29.8	26.8
HC97-188R	56.7	47.4	74.2	54.7	41.6	28.0
HC97-245R	54.4	33.9	71.2	57.5	37.0	27.4
HC97-545	60.0	53.6	61.7	57.9	51.6	35.3
HC97-4358	57.8	47.8	72.0	52.2	47.5	33.1
HC98-299	54.3	42.1	65.8	52.1	42.1	22.4
HC98-303	60.9	61.3	64.5	56.8	48.0	47.2
HC98-325	58.3	51.8	67.0	51.2	46.8	26.5
HC98-1019	59.6	45.4	74.8	53.1	44.6	25.2
HC98-1025	59.5	56.1	68.2	56.1	42.4	26.8
HC98-1046	51.1	30.6	70.5	50.3	39.2	20.8
HC98-1048	50.4	33.9	65.8	52.5	37.5	12.1
HC98-4448	56.2	46.5	69.9	50.4	36.0	30.3
LG97-9226	57.6	52.6	61.8	46.8	38.0	50.1
LG97-9301	59.7	46.3	59.5	52.2	50.9	51.9
LG98-5481	54.5	40.6	52.8	45.2	44.3	52.5
U99-002077	53.3	52.8	60.3	42.6	37.8	38.5
U99-003002	59.2	57.1	66.3	50.0	41.3	49.0
U99-005032	60.0	64.3	63.4	47.8	48.3	49.8
U99-006063	56.6	55.7	56.3	52.5	46.1	49.9
U99-009019	59.1	57.1	66.5	43.9	46.0	59.8
U99-009051	56.4	54.0	60.9	46.7	41.8	52.8
U99-045080	60.2	58.6	60.3	51.9	45.2	55.4
U99-046024	58.2	51.1	62.8	49.7	47.8	44.7
U99-046048	56.7	48.7	56.0	44.9	37.5	
U99-046063	60.3	59.3	64.6	50.7	43.3	50.9
C.V. (%)		15.6	7.6	6.7	14.9	16.9
L.S.D. (5%)		16.1	9.9	6.9	12.9	13.5
Row Sp. (In.)		27	27	30	24	30
Rows/Plot		4	4	4	4	4
Reps		2	2	2	2	2

\* Data not included in mean.

\*\*\* At harvest entry 38 was green and not harvested at the Manhattan location.

## PRELIMINARY TEST IIIB, 2001

## YIELD (bu/a)

Strain	Kingdom City MO	Goehner NE	Plymouth* NE	So. Charles- ton OH
IA3010 (III)	42.3	80.5	43.6	64.5
IA2052 (II)	39.6	78.4	42.6	71.0
Macon (L)	52.7	76.7	48.2	70.0
NE3001	37.0	82.7	49.3	81.7
Stout (dt1)	32.0	64.8	30.9	71.9
E99113	30.8	75.7	40.2	65.8
E99132	41.5	83.8	48.2	71.7
E99146	40.2	75.1	40.4	69.6
E99178	50.0	76.2	44.7	73.5
E99246	46.5	77.1	40.8	72.3
E99248	44.5	85.1	47.2	75.0
E99279	43.3	67.8	50.9	72.9
HC95-4329	35.2	79.1	55.2	67.6
HC97-175R	34.8	76.2	37.8	70.2
HC97-188R	29.4	86.2	46.4	63.3
HC97-245R	27.5	80.4	54.9	73.1
HC97-545	40.3	86.5	50.4	68.4
HC97-4358	31.9	81.4	48.5	72.2
HC98-299	24.8	80.0	54.4	73.3
HC98-303	35.5	82.6	53.7	77.5
HC98-325	41.3	77.8	35.2	72.0
HC98-1019	46.3	76.0	43.5	76.8
HC98-1025	30.8	85.8	47.7	77.0
HC98-1046	21.7	76.3	50.0	68.9
HC98-1048	26.8	61.9	49.0	74.4
HC98-4448	35.7	81.9	46.8	73.3
LG97-9226	48.4	81.4	47.0	74.5
LG97-9301	55.0	82.9	44.7	71.1
LG98-5481	58.3	76.8	41.1	63.2
U99-002077	32.0	78.6	35.0	68.8
U99-003002	46.0	82.4	40.3	71.3
U99-005032	45.1	83.1	47.8	68.2
U99-006063	43.1	66.6	61.6	76.0
U99-009019	49.0	82.2	52.6	69.3
U99-009051	43.8	73.6	44.8	73.8
U99-045080	54.3	79.1	28.7	72.0
U99-046024	47.0	80.1	45.9	69.0
U99-046048	61.1	71.8	45.5	77.1
U99-046063	48.0	86.2	46.4	70.3
C.V. (%)	8.5	7.5	17.7	5.2
L.S.D. (5%)	5.9	12.1	16.4	7.5
Row Sp. (In.)	30	30	30	7.5
Rows/Plot	4	4	4	8
Reps	2	2	2	2

\* Data not included in mean.

PRELIMINARY TEST IIIB, 2001

YIELD RANK

Strain	Yield Rank	Ames IA	Carlisle IA	Urbana IL	Lafayette IN	Manhattan KS
IA3010 (III)	35	31	31	23	39	21
IA2052 (II)	28	14	23	28	37	9
Macon (L)	10	21	35	5	2	10
NE3001	4	9	11	21	19	25
Stout (dt1)	32	32	15	4	20	37
E99113	34	11	24	39	27	19
E99132	6	3	9	12	23	5
E99146	33	24	32	38	28	20
E99178	17	5	29	29	34	17
E99246	2	2	8	20	12	22
E99248	1	10	13	17	6	1
E99279	14	6	17	9	4	4
HC95-4329	27	33	20	7	13	35
HC97-175R	37	38	6	10	38	30
HC97-188R	22	27	2	8	25	28
HC97-245R	30	36	4	2	35	29
HC97-545	8	18	28	1	1	24
HC97-4358	20	26	3	16	9	26
HC98-299	31	34	18	18	22	34
HC98-303	3	4	22	3	6	16
HC98-325	18	22	12	22	10	32
HC98-1019	12	30	1	11	16	33
HC98-1025	13	15	10	6	21	30
HC98-1046	38	39	5	26	28	36
HC98-1048	39	36	18	13	32	38
HC98-4448	26	28	7	25	36	27
LG97-9226	21	20	27	32	30	12
LG97-9301	11	29	36	16	3	8
LG98-5481	29	35	39	34	17	7
U99-002077	35	19	32	37	31	23
U99-003002	15	12	16	28	26	15
U99-005032	8	1	25	31	5	14
U99-006063	24	16	37	14	11	13
U99-009019	16	12	13	36	12	2
U99-009051	25	17	30	33	24	6
U99-045080	6	8	32	19	15	3
U99-046024	19	23	26	30	8	18
U99-046048	22	25	38	35	32	39
U99-046063	4	7	21	24	18	11

## PRELIMINARY TEST IIIB, 2001

## YIELD RANK

Strain	Kingdom City MO	Goehner NE	Plymouth NE	So. Charles- ton OH
IA3010 (III)	19	16	27	37
IA2052 (II)	24	23	29	24
Macon (L)	5	27	13	27
NE3001	25	9	10	1
Stout (dt1)	30	38	38	20
E99113	33	32	34	36
E99132	20	6	13	21
E99146	23	33	32	28
E99178	6	29	25	11
E99246	11	25	31	16
E99248	15	5	17	7
E99279	17	36	7	15
HC95-4329	28	20	2	35
HC97-175R	29	29	35	26
HC97-188R	35	2	21	38
HC97-245R	36	17	3	14
HC97-545	22	1	8	33
HC97-4358	32	14	12	17
HC98-299	38	19	4	12
HC98-303	27	10	5	2
HC98-325	21	24	36	18
HC98-1019	12	31	28	5
HC98-1025	33	4	16	4
HC98-1046	39	28	9	31
HC98-1048	37	39	11	9
HC98-4448	26	13	19	12
LG97-9226	8	14	18	8
LG97-9301	3	8	25	23
LG98-5481	2	26	30	39
U99-002077	30	22	37	32
U99-003002	13	11	33	22
U99-005032	14	7	15	34
U99-006063	18	37	1	6
U99-009019	7	12	6	29
U99-009051	16	34	24	10
U99-045080	4	21	39	18
U99-046024	10	18	22	30
U99-046048	1	35	23	3
U99-046063	9	2	21	25

## PRELIMINARY TEST IIIB, 2001

## MATURITY (date)

Strain	Mean 8 Tests	Ames IA	Carlisle IA	Urbana IL	Lafay- ette IN	Man- hattan KS
IA3010 (III)	9/27	10/4		9/20	10/1	9/21
IA2052 (II)	-8.1	-9		-11	-12	-5
Macon (L)	3.0	2		6	+1	9
NE3001	-5.3	-7		-6	-7	-4
Stout (dt1)	-2.6	-4		2	-8	4
E99113	-8.4	-13		-9	-12	-4
E99132	-4.5	-7		0	-10	1
E99146	-5.8	-9		-4	-10	-1
E99178	-3.5	-8		1	-10	4
E99246	-5.4	-9		-2	-11	-1
E99248	-2.8	-6		0	-8	1
E99279	-5.4	-4		-6	-9	-4
HC95-4329	0.6	-3		6	-1	4
HC97-175R	-1.1	-2		3	-8	4
HC97-188R	-3.9	-5		0	-9	2
HC97-245R	1.3	0		5	-2	9
HC97-545	2.3	0		4	0	5
HC97-4358	3.0	0		6	+1	10
HC98-299	-0.5	-5		2	-5	6
HC98-303	2.3	-1		7	+1	5
HC98-325	3.4	-1		8	+1	8
HC98-1019	3.3	0		8	+2	10
HC98-1025	1.0	-1		7	-1	1
HC98-1046	0.3	-5		4	-1	9
HC98-1048	1.5	0		7	-2	10
HC98-4448	3.0	0		7	+1	9
LG97-9226	-5.0	-5		-1	-9	-7
LG97-9301	2.9	4		7	+1	9
LG98-5481	4.1	6		7	+4	7
U99-002077	-8.6	-11		-13	-13	-4
U99-003002	-6.3	-8		-9	-10	0
U99-005032	-3.0	-3		-5	-3	3
U99-006063	-2.4	-5		-1	-1	2
U99-009019	-7.6	-7		-9	-12	-3
U99-009051	-3.0	-3		-3	-4	5
U99-045080	-4.4	-7		-2	-8	2
U99-046024	0.3	0		1	0	5
U99-046048	7.1	7		13	9	3
U99-046063	-4.4	-5		-1	-7	2
Date Planted	5/9	5/10		5/1	5/15	5/9
Days to Mature	140	147		142	139	135

PRELIMINARY TEST IIIB, 2001

MATURITY (date)

Strain	Kingdom City MO	Goehner NE	Plymouth NE	So. Charles- ton OH
IA3010 (III)	9/22	10/3	9/30	9/27
IA2052 (II)	-4	-9	-14	-13
Macon (L)	3	1	-1	4
NE3001	-4	-5	-10	-6
Stout (dt1)	-4	-2	-10	-7
E99113	-6	-10	-14	-11
E99132	-3	-7	-10	-10
E99146	-1	-8	-11	-12
E99178	-4	-5	-7	-9
E99246	-1	-8	-13	-9
E99248	1	-8	-6	-4
E99279	-5	-9	-7	-8
HC95-4329	0	1	-1	-2
HC97-175R	1	-4	-5	-6
HC97-188R	-2	-7	-10	-9
HC97-245R	-2	2	-8	4
HC97-545	2	2	1	4
HC97-4358	1	2	1	4
HC98-299	0	-3	-2	-2
HC98-303	2	2	1	2
HC98-325	3	2	2	5
HC98-1019	3	2	-1	4
HC98-1025	0	0	-2	3
HC98-1046	0	2	-2	-6
HC98-1048	1	0	-4	-2
HC98-4448	1	3	0	4
LG97-9226	-3	-6	-14	-4
LG97-9301	3	1	-1	0
LG98-5481	4	2	2	5
U99-002077	-3	-8	-15	-15
U99-003002	-3	-6	-14	-10
U99-005032	-3	-2	-6	-5
U99-006063	-2	-2	-6	-4
U99-009019	-3	-7	-10	-10
U99-009051	-4	-3	-8	-4
U99-045080	-2	-3	-7	-8
U99-046024	0	-1	-1	-2
U99-046048	10	7	-1	9
U99-046063	-3	-6	-9	-6
Date Planted	5/3	5/25	5/14	5/2
Days to Mature	142	131	139	148



PRELIMINARY TEST IIIB, 2001

LODGING (score)

Strain	Mean 9 Tests	Ames IA	Carlisle IA	Urbana IL	Lafay- ette IN	Man- hattan KS
IA3010 (III)	1.3	2.0	2.3	1.0	1.3	1.0
IA2052 (II)	1.8	2.8	2.8	1.8	1.5	1.0
Macon (L)	1.6	2.0	2.5	1.8	1.0	1.0
NE3001	1.3	1.8	2.0	1.0	1.0	1.0
Stout (dt1)	1.4	1.5	2.3	1.8	1.0	1.0
E99113	1.5	1.8	2.3	2.0	1.0	1.0
E99132	1.4	1.8	2.0	1.5	1.0	1.0
E99146	1.3	2.0	2.0	1.5	1.0	1.0
E99178	1.4	2.3	2.3	1.5	1.3	1.0
E99246	1.3	1.5	2.0	1.3	1.0	1.0
E99248	1.3	1.5	1.8	1.5	1.0	1.0
E99279	1.4	1.8	1.8	1.8	1.3	1.0
HC95-4329	1.2	1.5	1.8	1.0	1.0	1.0
HC97-175R	1.2	1.5	2.0	1.0	1.0	1.0
HC97-188R	1.4	1.5	2.0	1.5	1.0	1.0
HC97-245R	1.3	1.5	1.8	1.5	1.0	1.0
HC97-545	1.5	1.5	2.0	1.8	1.0	1.0
HC97-4358	1.2	1.5	1.8	1.3	1.0	1.0
HC98-299	1.2	1.5	2.0	1.3	1.0	1.0
HC98-303	1.5	1.5	2.0	2.0	1.0	1.0
HC98-325	1.3	1.5	1.8	1.5	1.0	1.0
HC98-1019	1.4	1.5	2.0	1.5	1.0	1.0
HC98-1025	1.3	1.5	1.8	1.5	1.0	1.0
HC98-1046	1.2	1.5	2.0	1.0	1.0	1.0
HC98-1048	1.3	1.5	2.0	1.3	1.0	1.0
HC98-4448	1.4	1.5	2.0	1.5	1.0	1.0
LG97-9226	1.9	1.8	2.5	3.3	1.5	1.0
LG97-9301	1.6	2.0	2.5	2.0	1.3	1.0
LG98-5481	2.0	2.8	2.0	2.5	2.5	1.0
U99-002077	1.3	1.5	2.5	1.0	1.0	1.0
U99-003002	1.7	2.0	3.0	2.0	1.5	1.0
U99-005032	1.4	1.5	2.3	1.5	1.0	1.0
U99-006063	1.5	1.8	2.0	1.5	1.3	1.0
U99-009019	1.3	1.8	2.3	1.5	1.0	1.0
U99-009051	1.8	2.3	2.5	2.0	1.8	1.0
U99-045080	1.5	1.8	2.3	1.5	1.3	1.0
U99-046024	1.3	1.5	2.5	1.3	1.0	1.0
U99-046048	1.7	2.3	2.5	1.5	1.3	1.0
U99-046063	1.3	1.5	3.0	1.0	1.0	1.0

## PRELIMINARY TEST IIIB, 2001

## LODGING (score)

Strain	Kingdom City MO	Goehner NE	Plymouth NE	So. Charles- ton OH
IA3010 (III)	1.0	1.0	1.0	1.3
IA2052 (II)	1.0	2.0	1.0	2.0
Macon (L)	1.0	2.0	1.0	2.0
NE3001	1.0	1.0	1.0	1.5
Stout (dt1)	1.0	1.0	1.0	1.8
E99113	1.0	1.0	1.0	2.0
E99132	1.0	1.5	1.0	1.8
E99146	1.0	1.0	1.0	1.5
E99178	1.0	1.0	1.0	1.5
E99246	1.0	1.0	1.0	1.8
E99248	1.0	1.0	1.0	1.8
E99279	1.0	1.5	1.0	1.5
HC95-4329	1.0	1.0	1.0	1.5
HC97-175R	1.0	1.0	1.0	1.3
HC97-188R	1.0	1.0	1.0	2.3
HC97-245R	1.0	1.0	1.0	1.8
HC97-545	1.0	1.5	1.0	2.5
HC97-4358	1.0	1.0	1.0	1.3
HC98-299	1.0	1.0	1.0	1.3
HC98-303	1.0	2.0	1.0	2.0
HC98-325	1.0	1.0	1.0	1.5
HC98-1019	1.0	2.0	1.0	2.0
HC98-1025	1.0	1.0	1.0	1.5
HC98-1046	1.0	1.0	1.0	1.0
HC98-1048	1.0	1.5	1.0	1.0
HC98-4448	1.0	2.0	1.0	2.0
LG97-9226	1.0	2.0	1.0	3.0
LG97-9301	1.0	2.0	1.0	2.0
LG98-5481	1.0	3.0	1.0	2.5
U99-002077	1.0	1.0	1.0	1.5
U99-003002	1.0	1.5	1.0	2.5
U99-005032	1.0	2.0	1.0	1.5
U99-006063	1.0	1.5	1.0	2.5
U99-009019	1.0	1.0	1.0	1.5
U99-009051	1.0	2.0	1.0	2.3
U99-045080	1.0	1.5	1.0	2.0
U99-046024	1.0	1.0	1.0	1.0
U99-046048	2.0	2.0	1.0	2.0
U99-046063	1.0	1.0	1.0	1.5

## PRELIMINARY TEST IIIB, 2001

## PLANT HEIGHT (inches)

Strain	Mean 8 Tests	Ames IA	Carlisle IA	Urbana IL	Lafay- ette IN	Man- hattan KS
IA3010 (III)	29	28	37	33	26	25
IA2052 (II)	36	39	48	39	34	30
Macon (L)	37	37	47	39	36	28
NE3001	23	24	32	27	24	14
Stout (dt1)	22	21	31	22	24	13
E99113	36	39	44	35	35	30
E99132	33	36	44	34	31	26
E99146	34	37	43	35	31	28
E99178	25	29	35	29	25	17
E99246	32	36	41	34	33	26
E99248	35	37	44	37	36	29
E99279	37	39	48	37	40	30
HC95-4329	20	20	28	22	22	12
HC97-175R	21	18	29	24	19	12
HC97-188R	20	19	29	20	20	16
HC97-245R	21	17	29	25	20	14
HC97-545	22	21	30	24	20	14
HC97-4358	22	21	31	24	21	16
HC98-299	20	19	27	24	20	13
HC98-303	21	24	28	23	20	15
HC98-325	21	20	28	22	22	14
HC98-1019	23	23	31	25	23	15
HC98-1025	20	21	29	20	20	13
HC98-1046	20	20	28	21	19	13
HC98-1048	19	17	27	21	20	10
HC98-4448	20	19	29	22	19	15
LG97-9226	36	40	48	36	34	28
LG97-9301	36	39	45	39	34	30
LG98-5481	40	42	49	40	36	35
U99-002077	29	31	38	30	29	19
U99-003002	32	35	40	33	30	26
U99-005032	34	38	42	36	32	27
U99-006063	34	36	46	34	32	24
U99-009019	34	37	43	33	32	32
U99-009051	37	40	47	36	36	31
U99-045080	33	34	43	35	32	27
U99-046024	33	34	43	35	31	31
U99-046048	39	42	46	40	33	32
U99-046063	35	38	44	36	31	30

PRELIMINARY TEST IIIB, 2001

PLANT HEIGHT (inches)

Strain	Kingdom City MO	Goehner NE	Plymouth NE	So. Charles- ton OH
IA3010 (III)	27	28		28
IA2052 (II)	30	35		34
Macon (L)	29	39		37
NE3001	15	24		25
Stout (dt1)	15	27		23
E99113	29	38		35
E99132	25	33		36
E99146	28	36		35
E99178	14	27		27
E99246	24	31		32
E99248	25	35		35
E99279	29	37		39
HC95-4329	10	24		24
HC97-175R	15	25		25
HC97-188R	12	22		19
HC97-245R	11	24		26
HC97-545	19	28		23
HC97-4358	12	25		27
HC98-299	11	24		24
HC98-303	14	24		21
HC98-325	14	26		23
HC98-1019	14	28		26
HC98-1025	13	21		23
HC98-1046	12	23		23
HC98-1048	12	24		23
HC98-4448	12	23		21
LG97-9226	27	38		40
LG97-9301	33	36		35
LG98-5481	33	42		40
U99-002077	23	30		28
U99-003002	28	29		31
U99-005032	27	38		31
U99-006063	29	35		37
U99-009019	26	34		34
U99-009051	30	40		37
U99-045080	28	34		34
U99-046024	25	33		34
U99-046048	34	43		41
U99-046063	28	35		34

## PRELIMINARY TEST IIIB, 2001

## SEED SIZE (g/100)

Strain	Mean 9 Tests	Ames IA	Carlisle IA	Urbana IL	Lafayette IN	Manhattan KS
IA3010 (III)	14.7	14.1	15.4	13.1	17.7	13.9
IA2052 (II)	14.4	14.1	15.2	13.5	14.9	16.3
Macon (L)	16.2	14.6	17.0	15.4	18.1	17.3
NE3001	16.6	16.7	18.6	15.2	18.0	16.2
Stout (dt1)	16.0	16.8	17.3	15.0	15.6	17.9
E99113	13.2	12.9	15.4	12.1	13.2	12.1
E99132	13.5	12.7	14.8	11.6	15.5	13.8
E99146	13.6	13.3	15.5	11.1	13.9	13.1
E99178	16.6	15.8	18.1	15.5	16.7	18.5
E99246	17.0	17.5	20.4	15.2	18.0	15.6
E99248	15.7	15.7	17.5	14.2	16.6	16.3
E99279	15.7	15.8	17.7	14.3	16.8	15.7
HC95-4329	14.2	15.4	15.1	13.8	13.8	15.2
HC97-175R	14.4	15.7	15.0	12.9	15.2	16.0
HC97-188R	15.5	15.5	17.5	15.5	14.9	17.5
HC97-245R	17.6	18.7	19.0	17.7	17.7	18.2
HC97-545	16.3	16.6	18.6	15.7	17.0	16.1
HC97-4358	17.1	17.6	19.3	15.8	17.9	17.0
HC98-299	14.7	14.5	15.5	13.4	14.5	17.1
HC98-303	15.6	15.7	17.0	13.8	16.2	14.1
HC98-325	15.8	16.7	16.4	15.2	17.2	17.0
HC98-1019	16.8	17.5	18.0	16.2	16.3	17.7
HC98-1025	15.3	16.2	16.4	14.4	14.7	16.8
HC98-1046	15.7	16.8	16.2	13.8	15.5	17.5
HC98-1048	16.4	17.0	17.0	15.2	15.6	18.7
HC98-4448	16.1	16.0	17.9	14.5	16.7	16.6
LG97-9226	15.8	14.9	16.4	14.6	17.9	16.1
LG97-9301	16.1	14.5	17.2	15.2	18.5	16.7
LG98-5481	14.0	12.6	14.1	11.3	17.2	14.0
U99-002077	15.3	15.3	16.8	13.2	16.1	15.0
U99-003002	13.8	15.2	16.6	3.6	16.3	14.8
U99-005032	13.8	13.6	14.7	11.8	16.2	13.7
U99-006063	13.7	13.4	14.3	12.5	15.9	14.6
U99-009019	13.4	12.7	14.0	11.7	13.8	14.7
U99-009051	14.6	13.7	15.2	12.9	17.4	14.6
U99-045080	15.0	14.1	15.8	13.9	16.2	16.1
U99-046024	15.8	14.9	16.4	14.2	17.3	15.4
U99-046048	17.0	15.6	16.4	16.1	21.3	
U99-046063	15.7	15.8	17.1	14.5	17.9	15.2

## PRELIMINARY TEST IIIB, 2001

## SEED SIZE (g/100)

Strain	Kingdom City MO	Goehner NE	Plymouth NE	So. Charles- ton OH
IA3010 (III)	15.0	15.0	13.7	14.3
IA2052 (II)	13.0	15.4	14.0	13.4
Macon (L)	16.0	15.4	15.1	17.0
NE3001	16.0	17.3	15.5	15.8
Stout (dt1)	14.0	17.3	15.1	14.9
E99113	14.0	13.7	11.8	13.8
E99132	13.0	14.0	13.0	13.3
E99146	14.0	14.5	13.3	14.1
E99178	16.0	17.3	15.8	15.3
E99246	14.0	18.4	16.2	17.8
E99248	14.0	15.9	15.1	16.3
E99279	14.0	15.3	15.8	16.2
HC95-4329	15.0	14.4	12.9	12.2
HC97-175R	15.0	13.6	12.8	13.3
HC97-188R	15.0	15.8	13.9	14.3
HC97-245R	17.0	17.4	17.4	15.7
HC97-545	16.0	16.8	14.7	15.5
HC97-4358	18.0	17.4	15.6	15.3
HC98-299	15.0	14.7	13.6	13.7
HC98-303	17.0	16.1	15.0	15.4
HC98-325	16.0	15.5	14.4	14.0
HC98-1019	19.0	16.1	14.7	15.3
HC98-1025	14.0	16.0	13.9	14.9
HC98-1046	16.0	15.9	14.8	15.1
HC98-1048	16.0	16.9	15.6	15.7
HC98-4448	18.0	16.1	14.5	14.4
LG97-9226	15.0	15.0	14.6	17.4
LG97-9301	16.0	15.8	14.4	16.6
LG98-5481	16.0	13.6	13.9	13.4
U99-002077	15.0	16.2	14.5	15.7
U99-003002	13.0	15.7	14.3	14.4
U99-005032	13.0	14.5	13.2	13.6
U99-006063	12.0	13.6	13.5	13.4
U99-009019	14.0	13.9	12.9	13.1
U99-009051	14.0	14.2	14.3	14.8
U99-045080	13.0	15.3	15.5	14.8
U99-046024	16.0	15.7	15.8	16.1
U99-046048	18.0	15.5	15.8	17.0
U99-046063	13.0	16.1	16.0	16.0

## PRELIMINARY TEST IIIB, 2001

## SEED QUALITY (score)

Strain	Mean 5 Tests	Ames IA	Carlisle IA	Urbana IL	Lafayette IN	Manhattan KS
IA3010 (III)	2.0			2.5	1.5	2.0
IA2052 (II)	1.7			1.5	1.0	3.0
Macon (L)	1.7			2.0	1.0	2.0
NE3001	1.6			1.5	1.0	2.0
Stout (dt1)	1.7			1.5	1.0	2.0
E99113	2.3			2.0	1.0	3.0
E99132	1.8			2.0	1.0	2.0
E99146	1.8			2.0	1.0	2.0
E99178	2.0			2.0	1.0	3.0
E99246	2.3			2.0	1.0	4.0
E99248	2.1			2.0	1.0	2.0
E99279	2.3			2.5	1.0	3.0
HC95-4329	1.2			1.0	1.0	2.0
HC97-175R	2.0			2.0	1.0	2.0
HC97-188R	2.0			2.0	1.0	3.0
HC97-245R	1.7			1.0	1.0	3.0
HC97-545	1.6			1.0	1.0	2.0
HC97-4358	1.8			1.0	1.0	3.0
HC98-299	1.4			1.0	1.0	2.0
HC98-303	1.4			1.0	1.0	2.0
HC98-325	1.5			1.0	1.0	2.0
HC98-1019	2.0			2.0	1.0	3.0
HC98-1025	1.8			2.0	1.0	2.0
HC98-1046	1.8			2.0	1.0	2.0
HC98-1048	1.6			1.0	1.0	2.0
HC98-4448	1.6			1.5	1.0	3.0
LG97-9226	1.9			2.5	1.0	2.0
LG97-9301	1.6			2.5	1.0	2.0
LG98-5481	1.4			2.0	1.0	2.0
U99-002077	1.8			2.0	1.0	2.0
U99-003002	1.7			1.5	1.0	3.0
U99-005032	1.8			2.0	1.0	2.0
U99-006063	1.6			2.5	1.0	2.0
U99-009019	1.7			1.5	1.0	2.0
U99-009051	1.8			2.0	1.0	2.0
U99-045080	1.6			2.0	1.0	2.0
U99-046024	1.7			2.0	1.0	2.0
U99-046048	1.4			2.0	1.0	2.0
U99-046063	1.6			2.0	1.0	2.0

PRELIMINARY TEST IIIB, 2001

SEED QUALITY (score)

Strain	Kingdom City MO	Goehner NE	Plymouth NE	So. Charles- ton OH
IA3010 (III)	2.0			2.0
IA2052 (II)	1.0			2.0
Macon (L)	2.0			1.5
NE3001	2.0			1.5
Stout (dt1)	2.0			2.0
E99113	3.0			2.5
E99132	2.0			2.0
E99146	2.0			2.0
E99178	2.0			2.0
E99246	2.0			2.5
E99248	3.0			2.5
E99279	2.0			3.0
HC95-4329	1.0			1.0
HC97-175R	3.0			2.0
HC97-188R	2.0			2.0
HC97-245R	2.0			1.5
HC97-545	2.0			2.0
HC97-4358	2.0			2.0
HC98-299	2.0			1.0
HC98-303	1.0			2.0
HC98-325	2.0			1.5
HC98-1019	2.0			2.0
HC98-1025	2.0			2.0
HC98-1046	2.0			2.0
HC98-1048	2.0			2.0
HC98-4448	1.0			1.5
LG97-9226	2.0			2.0
LG97-9301	1.0			1.5
LG98-5481	1.0			1.0
U99-002077	2.0			2.0
U99-003002	1.0			2.0
U99-005032	2.0			2.0
U99-006063	1.0			1.5
U99-009019	2.0			2.0
U99-009051	2.0			2.0
U99-045080	1.0			2.0
U99-046024	2.0			1.5
U99-046048	1.0			1.5
U99-046063	1.0			2.0



## PRELIMINARY TEST IIIB, 2001

## GREEN STEM (score)

Strain	Mean 4 Tests	Ames IA	Carlisle IA	Urbana IL	Lafayette IN	Manhattan KS
IA3010 (III)	1.4	2.0				
IA2052 (II)	2.0	2.0				
Macon (L)	2.0	2.0				
NE3001	1.5	1.0				
Stout (dt1)	2.0	2.0				
E99113	1.8	2.0				
E99132	2.3	2.0				
E99146	2.0	2.0				
E99178	1.8	2.0				
E99246	1.4	1.0				
E99248	2.4	2.0				
E99279	1.5	1.0				
HC95-4329	2.0	2.0				
HC97-175R	1.5	1.0				
HC97-188R	1.5	1.0				
HC97-245R	2.4	3.0				
HC97-545	1.6	2.0				
HC97-4358	1.8	3.0				
HC98-299	2.5	2.0				
HC98-303	1.6	1.0				
HC98-325	2.0	2.0				
HC98-1019	2.8	3.0				
HC98-1025	2.4	2.0				
HC98-1046	1.3	2.0				
HC98-1048	2.6	3.0				
HC98-4448	1.6	2.0				
LG97-9226	2.0	1.0				
LG97-9301	1.8	1.0				
LG98-5481	1.5	2.0				
U99-002077	2.0	2.0				
U99-003002	2.0	1.0				
U99-005032	2.3	1.0				
U99-006063	1.5	1.0				
U99-009019	1.8	2.0				
U99-009051	1.5	1.0				
U99-045080	1.8	1.0				
U99-046024	1.6	2.0				
U99-046048	1.9	2.0				
U99-046063	2.3	2.0				

PRELIMINARY TEST IIIB, 20G1

GREEN-STEM (score)

Strain	Kingdom City MO	Goehner NE	Plymouth NE	So. Charles- ton OH
IA3010 (III)		1.0	1.0	1.5
IA2052 (II)		3.0	2.0	1.0
Macon (L)		4.0	1.0	1.0
NE3001		3.0	1.0	1.0
Stout (dt1)		2.0	3.0	1.0
E99113		3.0	1.0	1.0
E99132		4.0	2.0	1.0
E99146		4.0	1.0	1.0
E99178		3.0	1.0	1.0
E99246		2.0	1.0	1.5
E99248		3.0	3.0	1.5
E99279		3.0	1.0	1.0
HC95-4329		2.0	3.0	1.0
HC97-175R		3.0	1.0	1.0
HC97-188R		2.0	2.0	1.0
HC97-245R		4.0	1.0	1.5
HC97-545		1.0	2.0	1.5
HC97-4358		2.0	1.0	1.0
HC98-299		2.0	5.0	1.0
HC98-303		3.0	1.0	1.5
HC98-325		2.0	3.0	1.0
HC98-1019		2.0	4.0	2.0
HC98-1025		4.0	2.0	1.5
HC98-1046		1.0	1.0	1.0
HC98-1048		5.0	1.0	1.5
HC98-4448		1.0	2.0	1.5
LG97-9226		3.0	3.0	1.0
LG97-9301		1.0	3.0	2.0
LG98-5481		2.0	1.0	1.0
U99-002077		3.0	2.0	1.0
U99-003002		4.0	2.0	1.0
U99-005032		4.0	3.0	1.0
U99-006063		3.0	1.0	1.0
U99-009019		3.0	1.0	1.0
U99-009051		3.0	1.0	1.0
U99-045080		3.0	2.0	1.0
U99-046024		2.0	1.0	1.5
U99-046048		3.0	1.0	1.5
U99-046063		4.0	2.0	1.0

PRELIMINARY TEST IIIB, 2001

PROTEIN (%)

Strain	Mean 3 Tests	Carlisle IA	Urbana IL	Lafayette IN
IA3010 (III)	39.3	37.8	41.2	38.8
IA2052 (II)	39.2	39.7	40.7	37.2
Macon (L)	40.6	39.8	43.0	38.9
NE3001	38.4	37.5	40.7	37.1
Stout (dt1)	39.7	40.1	40.6	38.6
E99113	40.1	39.3	41.8	39.4
E99132	39.2	39.6	40.5	37.6
E99146	41.7	41.2	43.3	40.7
E99178	38.1	37.6	41.1	35.6
E99246	39.8	40.1	41.3	37.9
E99248	39.5	39.9	41.2	37.6
E99279	39.2	39.8	40.8	37.0
HC95-4329	38.8	38.0	40.5	37.9
HC97-175R	39.1	37.5	40.7	39.1
HC97-188R	38.4	38.1	40.7	36.4
HC97-245R	41.0	37.8	43.9	41.2
HC97-545	39.6	40.3	40.8	37.6
HC97-4358	40.7	39.7	42.8	39.7
HC98-299	39.6	40.7	40.6	37.3
HC98-303	38.8	38.9	40.3	37.2
HC98-325	39.5	38.5	41.4	38.5
HC98-1019	39.6	38.9	41.8	38.1
HC98-1025	38.6	37.2	41.4	37.2
HC98-1046	37.2	37.0	38.2	36.5
HC98-1048	38.5	37.7	41.0	37.0
HC98-4448	40.4	39.6	42.4	39.2
LG97-9226	39.1	38.3	41.2	37.8
LG97-9301	40.1	40.0	42.8	37.5
LG98-5481	39.9	38.7	41.3	39.7
U99-002077	39.6	39.1	40.9	38.8
U99-003002	39.5	38.8	39.9	39.8
U99-005032	39.5	39.0	41.4	38.2
U99-006063	40.5	40.0	41.9	39.7
U99-009019	37.9	37.3	40.5	35.8
U99-009051	41.8	40.8	43.3	41.3
U99-045080	40.3	39.3	43.2	38.3
U99-046024	40.9	41.4	43.5	37.7
U99-046048	40.8	40.4	42.4	39.7
U99-046063	38.6	38.6	40.6	36.5

## PRELIMINARY TEST IIIB, 2001

## OIL (%)

Strain	Mean 3 Tests	Carlisle IA	Urbana IL	Lafayette IN
IA3010 (III)	20.6	20.2	20.3	21.2
IA2052 (II)	22.2	21.9	21.8	22.8
Macon (L)	20.6	20.5	19.9	21.3
NE3001	22.2	22.6	21.3	22.7
Stout (dt1)	21.7	21.3	21.8	22.1
E99113	21.0	21.5	20.5	21.1
E99132	21.8	21.3	21.4	22.8
E99146	20.5	20.7	20.4	20.4
E99178	22.3	22.1	21.0	23.8
E99246	21.5	20.9	21.3	22.5
E99248	21.4	21.2	20.6	22.5
E99279	21.0	20.8	20.4	21.9
HC95-4329	21.7	21.8	21.5	21.9
HC97-175R	21.9	22.2	22.2	21.3
HC97-188R	21.8	21.6	21.6	22.1
HC97-245R	21.2	21.6	21.1	21.1
HC97-545	21.1	21.0	21.1	21.2
HC97-4358	20.7	20.7	20.7	20.8
HC98-299	21.8	20.8	22.4	22.3
HC98-303	22.0	21.5	22.2	22.2
HC98-325	22.5	22.3	22.2	22.9
HC98-1019	21.6	21.6	21.3	22.0
HC98-1025	21.7	21.9	21.3	22.0
HC98-1046	22.6	22.1	22.9	22.8
HC98-1048	21.7	21.6	21.2	22.3
HC98-4448	20.9	21.0	20.9	20.9
LG97-9226	21.3	21.2	20.9	21.7
LG97-9301	20.9	20.4	20.4	22.0
LG98-5481	20.6	20.9	20.5	20.6
U99-002077	21.6	21.4	21.6	21.7
U99-003002	21.7	21.7	22.1	21.4
U99-005032	21.4	21.0	21.0	22.2
U99-006063	20.5	20.3	20.2	20.9
U99-009019	22.5	22.3	21.8	23.4
U99-009051	19.9	20.2	19.6	19.8
U99-045080	21.0	21.1	20.2	21.8
U99-046024	20.8	20.9	19.5	22.0
U99-046048	20.5	20.1	20.3	21.0
U99-046063	21.6	21.3	21.1	22.4

Uniform Test IV, 2001

	Strain	Parentage	Previous Testing	Generation Compositied	Unique Traits
1.	HS93-4118 (IV)	IA2007 x Dairyland DSR 304	5	F5	Rps1c
2.	LS93-0375 (SCN)	Asgrow A3935 x Pioneer P9402	98 UTIV	F6	SCN
3.	Macon (III)	Sherman x Resnik	5	F5	
4.	Strong (dt1)	Sprite 87 x HC85-6577	1	F5	dt1
5.	C1981	Olympus x CX1307-205	1	F5	
6.	HC94-63PR	Charleston (6) x Hobbit 87	PTIVB	BC5F3	Rps1k, dt1
7.	HC94-944	HC85-606 x HC78-676BC	PTIVB	F5	dt1
8.	HC94-2727	HC84-4850 x Resnik	2	F5	Dt1
9.	HC95-933	Sprite 87 x Conrad	1	F4	dt1
10.	HC95-4337	HC85-164 (2) x Hobbit 87	1	F4	dt1
11.	HC96-182PR	Stressland (4) x HC78-676 BC	1	BC3F4	Dt1
12.	HC96-4458	Jack x Charleston BC	SCN IV	F4	Dt1
13.	HC97-166PR	HC89-2237 (4) x Flyer	PTIVA	BC3F3	Rps1k, Dt1
14.	HC97-168PR	HC89-2237 (4) x Flyer	PTIVA	BC3F3	Rps1k, Dt1
15.	HC97-235PR	Stressland (4) x Thorne	PTIVA	BC3F3	Rps1k, Dt1
16.	K1493	Pioneer P9393 x Stressland	PTIVA	F5	
17.	K1497	Stressland x A92-726004	PTIVA	F5	
18.	LN97-13138	LN89-334 x Macon	PTIVB	F5	
19.	LN97-15076	Macon x Stressland	PTIVB	F5	
20.	LS97-1218	Flyer x Asgrow A4138	PTIVA	F6	SCN
21.	LS97-3221	Pioneer P9521 x LS92-1800	PTIVA	F6	SCN
22.	Md95-5358	S88-19561 x Corsica	2	F5	SCN 3
23.	Md96-5722	KS4694 x Corsica	1	F5	

UNIFORM TEST IV, 2001  
DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	<u>Chlorosis</u> Score Yellow Medicine Co.	<u>SDS Data</u> Carmi DX Score	<u>Shattering</u> Score Man- hattan
HS93-4118 (IV)	WGBDYBII	5.0	2.6	1.0
LS93-0375 (SCN)	PTBDYBII	4.8	1.7	1.0
Macon (III)	WTBIYBII	4.8	0.7	1.0
Strong (dt1)	WTBIYBID	4.3	1.5	1.0
C1981	PTTDYBII	4.0	8.0	1.0
HC94-63PR	PTBSYBID	4.3	3.0	1.0
HC94-944	WTBSYBID	4.5	8.3	1.0
HC94-2727	PTBIYBII	4.8	4.1	1.0
HC95-933	PTBSYBID	4.5	8.0	1.0
HC95-4337	WTBSYBID	5.0	0.0	1.0
HC96-182PR	PTBSYBII	4.5	6.5	1.0
HC96-4458	PGBSYBfI	4.8	4.1	1.0
HC97-166PR	PTTIYBII	4.8	1.9	1.0
HC97-168PR	PTTDYBII	5.0	4.4	1.0
HC97-235PR	PTTDYBII	4.8	11.1	1.0
K1493	PTTDYBII	5.0	7.7	1.0
K1497	PTTIYBII	5.0	2.6	1.0
LN97-13138	WGBDYBII	5.0	8.5	1.0
LN97-15076	WTBDYBII	4.8	7.2	1.0
LS97-1218	WTTDYBII	4.5	3.7	1.0
LS97-3221	PTBSYBII	4.5	5.4	1.0
Md95-5358	PTBDYBII	4.8	1.5	1.0
Md96-5722	PGBDYBI+BfI	5.0		1.0

UNIFORM TEST IV, 2001

DISEASE DATA

Strain	FELS	Stand		SDS	PR		EE	PS	P&SB
	Ullin Score	Belle- ville %	Ullin %	Data DX Score	Lafayette Race 4	Lafayette Race 7	Vincennes Susceptible vs Resistant	Lafayette a %	Lafayette n %
HS93-4118 (IV)	3.7	59.0	60.3	2.6	S	R	susceptible	5	19
LS93-0375 (SCN)	2.7	43.6	53.8	1.7	S	R	susceptible	32	52
Macon (III)	2.3	65.4	71.8	0.7	S	S	susceptible	26	14
Strong (dt1)	2.3	76.9	71.8	1.5	S	R	resistant	12	16
C1981	1.0	67.9	76.9	8.0	R	S	resistant	2	46
HC94-63PR	0.3	50.4	58.1	3.0	R	R	resistant	0	10
HC94-944	0.7	71.8	65.8	8.3	S	S	resistant	2	6
HC94-2727	2.0	78.2	74.4	4.1	R	R	susceptible	10	42
HC95-933	1.7	64.1	83.3	8.0	S	S	resistant	20	34
HC95-4337	0.7	65.0	70.1	0.0	R	R	? lf. sym.	14	32
HC96-182PR	1.0	59.0	55.6	6.5	R	R	resistant	2	22
HC96-4458	1.7	53.8	67.9	4.1	H	H	susceptible	14	44
HC97-166PR	2.7	57.7	71.8	1.9	R	R	susceptible	16	20
HC97-168PR	1.7	82.1	82.1	4.4	R	R	susceptible	16	14
HC97-235PR	1.0	61.5	61.5	11.1	R	S	resistant	10	30
K1493	0.3	37.2	59.0	7.7	R	S	resistant	10	24
K1497	2.7	59.0	64.1	2.6	R	S	resistant	12	22
LN97-13138	1.0	41.0	67.9	8.5	R	R	resistant	14	6
LN97-15076	2.3	42.3	55.1	7.2	S	S	resistant	20	24
LS97-1218	2.0	44.9	82.1	3.7	S	S	susceptible	4	34
LS97-3221	2.7	52.6	59.0	5.4	S	R	susceptible	8	46
Md95-5358	3.7	79.5	84.6	1.5	S	S	susceptible	30	48
Md96-5722		82.1	65.4		S	S	susceptible	16	52

UNIFORM TEST IV, 2001

REGIONAL SUMMARY

No. of Tests Strain	Yield 16 bu/a	Rank 16 No.	Maturity 16 Date	Lodging 17 Score	Plant Height 17 In.	Seed Size 14 g/100	Seed Quality 14 Score	Green Stem 4 Score	Composition	
									Protein 5 %	Oil 5 %
HS93-4118 (IV)	52.5	3	9/23	1.3	32	13.3	2.1	1.8	39.0	20.8
LS93-0375 (SCN)	51.5	9	2.0	1.3	34	15.5	1.8	2.4	40.8	20.6
Macon (III)	49.0	15	-0.6	1.3	31	15.5	1.8	1.8	39.4	21.4
Strong (dt1)	42.6	23	0.6	1.1	20	16.6	1.8	2.7	40.7	21.2
C1981	52.6	1	3.3	2.0	39	13.3	1.8	2.4	41.6	20.4
HC94-63PR	42.7	22	-0.7	1.1	18	15.6	1.9	2.4	39.6	21.7
HC94-944	44.4	19	-0.7	1.1	19	13.9	1.6	2.1	39.7	21.3
HC94-2727	50.8	11	0.5	1.8	37	14.2	1.8	2.3	39.4	21.8
HC95-933	44.3	20	1.0	1.2	20	14.3	1.8	2.6	40.5	20.9
HC95-4337	44.2	21	-0.4	1.1	20	13.7	1.7	2.4	39.8	21.5
HC96-182PR	51.8	7	1.2	1.6	37	14.0	1.9	2.2	41.9	20.8
HC96-4458	48.2	17	0.3	2.4	39	14.8	2.2	2.9	39.0	21.7
HC97-166PR	49.5	14	-1.4	1.5	34	13.6	1.7	1.7	42.0	19.9
HC97-168PR	51.0	10	-0.9	1.5	34	14.1	1.8	2.0	41.8	20.0
HC97-235PR	51.8	7	2.8	1.8	36	13.2	1.9	1.6	41.6	20.5
K1493	51.9	6	2.7	1.8	36	13.4	1.9	2.2	41.2	21.3
K1497	50.0	12	3.5	1.7	34	13.9	1.8	2.5	41.1	21.0
LN97-13138	48.5	16	-0.4	1.5	31	13.7	1.8	1.8	41.0	20.7
LN97-15076	52.6	1	2.3	1.5	36	15.3	2.0	2.1	41.1	21.0
LS97-1218	52.5	3	2.5	2.0	36	13.9	1.8	1.7	40.2	21.2
LS97-3221	47.7	18	3.3	2.0	39	14.0	1.8	1.9	40.6	20.7
Md95-5358	49.8	13	1.8	1.6	37	17.3	2.3	1.8	40.5	20.6
Md96-5722	52.1	5	2.3	1.5	37	17.0	2.3	2.5	40.5	20.4

134.6 Days After Planting



**UNIFORM TEST IV, 2001**

**2000-2001 2-YEAR MEAN**

No. of Tests Strain	Yield 28 bu/a	Rank 28 No.	Maturity 28 Date	Lodging 30 Score	Plant Height 30 In.	Seed Size 26 g/100	Composition	
							Protein 10 %	Oil 10 %
HS93-4118 (IV)	55.9	2	9/23	1.5	32	13.8	40.5	20.1
Macon (III)	53.7	6	-0.8	1.4	32	16.0	41.0	20.6
Strong (dt1)	49.4	10	0.6	1.3	23	16.9	41.8	20.6
C1981	56.4	1	4.4	2.1	39	13.2	43.2	19.6
HC94-2727	54.4	5	0.9	2.0	38	14.0	41.0	20.8
HC95-933	51.0	8	1.1	1.4	23	14.2	41.8	20.0
HC95-4337	49.7	9	0.1	1.2	22	13.4	40.5	20.8
HC96-182PR	55.0	4	2.4	1.9	38	14.1	43.2	20.1
Md95-5358	52.6	7	2.3	1.9	38	17.1	41.4	19.9
Md96-5722	55.1	3	2.9	1.7	38	16.8	41.4	20.1

132.9 Days After Planting

**1999-2001 3-YEAR MEAN**

No. of Tests Strain	43	43	43	46	46	41	13	13
HS93-4118 (IV)	53.7	1	9/22	1.5	32	14.1	40.7	19.8
Macon (III)	51.6	3	-0.7	1.4	32	15.7	40.9	20.5
HC94-2727	52.1	2	0.7	1.8	37	13.8	40.9	20.8
Md95-5358	50.9	4	2.3	1.8	37	16.8	41.8	19.7

131.1 Days After Planting

## UNIFORM TEST IV, 2001

## YIELD (bu/a)

Strain	Mean 16 Tests	George- town DE	Middle- town DE	Belle- ville IL	Newton IL	Ullin IL	Urbana IL	Butler- ville IN
HS93-4118 (IV)	52.5	47.2	30.8	65.8	52.0	45.8	49.3	48.3
LS93-0375 (SCN)	51.5	44.2	31.8	53.5	58.9	43.2	54.9	46.1
Macon (III)	49.0	46.5	26.1	53.0	50.2	37.6	53.2	44.4
Strong (dt1)	42.6	46.0	26.1	54.4	36.0	30.5	49.4	20.8
C1981	52.6	54.8	33.8	61.1	50.9	42.4	50.7	52.1
HC94-63PR	42.7	46.7	31.8	56.5	37.1	29.4	48.0	24.5
HC94-944	44.4	52.6	23.4	61.0	38.6	36.7	52.8	21.5
HC94-2727	50.8	52.7	32.2	58.6	50.2	44.9	46.8	41.8
HC95-933	44.3	49.7	26.3	53.1	38.2	28.1	45.0	24.9
HC95-4337	44.2	52.4	27.9	59.4	41.3	33.7	52.2	18.3
HC96-182PR	51.8	47.7	32.0	62.2	51.7	46.4	47.5	52.2
HC96-4458	48.2	59.2	30.2	54.2	52.0	42.1	46.8	39.5
HC97-166PR	49.5	44.8	29.8	60.9	47.1	49.7	45.9	46.1
HC97-168PR	51.0	55.6	24.7	59.7	46.9	44.6	47.9	42.6
HC97-235PR	51.8	49.5	30.6	62.7	51.2	51.1	48.4	47.7
K1493	51.9	52.4	28.9	64.7	46.0	47.1	47.1	48.7
K1497	50.0	52.3	30.0	57.0	43.4	44.6	49.3	50.3
LN97-13138	48.5	42.7	30.8	60.8	46.1	33.2	50.4	40.8
LN97-15076	52.6	51.5	30.8	53.0	50.5	56.3	48.5	53.4
LS97-1218	52.5	58.3	42.8	61.4	62.4	38.9	52.9	38.2
LS97-3221	47.7	56.2	27.3	50.1	56.4	40.8	46.3	53.9
Md95-5358	49.8	58.8	31.8	40.7	60.9	49.3	48.2	43.7
Md96-5722	52.1	63.1	32.4	55.5	57.5	52.1	47.2	44.1
C.V. (%)		8.2	8.1	8.5	10.0	16.3	5.5	12.0
L.S.D. (5%)		6.9	4.1	8.1	8.0	11.3	4.4	8.0
Row Sp. (In.)		15	15	30	30	30	30	26
Rows/Plot		5	5	4	4	4	4	4
Reps		3	3	3	3	3	3	3

UNIFORM TEST IV, 2001

YIELD (bu/a)

Strain	Lafayette IN	Manhattan* KS	Ottawa KS	Lexington KY	Queens- town MD	Kingdom City MO
HS93-4118 (IV)	53.5	43.3	28.7	62.3	54.7	56.7
LS93-0375 (SCN)	48.9	42.6	32.3	61.5	50.5	60.3
Macon (III)	44.0	42.9	29.3	64.4	48.3	58.0
Strong (dt1)	45.3	23.7	28.0	61.1	50.5	42.6
C1981	45.0	60.4	32.9	63.3	50.5	57.8
HC94-63PR	44.4	18.7	25.2	62.6	51.5	40.8
HC94-944	43.6	29.3	25.8	64.9	57.0	41.6
HC94-2727	46.3	49.6	36.0	62.7	49.3	59.3
HC95-933	43.7	37.1	27.7	66.1	53.0	50.6
HC95-4337	42.0	31.9	32.7	59.8	47.8	48.0
HC96-182PR	47.0	45.3	31.1	70.6	48.3	57.1
HC96-4458	47.7	38.5	27.3	53.7	48.4	53.4
HC97-166PR	42.4	41.2	30.6	65.2	45.5	56.6
HC97-168PR	46.6	46.9	30.4	65.7	52.8	60.3
HC97-235PR	42.3	58.7	31.9	67.4	49.3	55.2
K1493	48.5	46.6	32.6	67.5	55.4	58.0
K1497	46.8	47.4	32.2	60.6	52.5	56.4
LN97-13138	48.3	48.3	31.5	62.3	47.6	55.1
LN97-15076	51.0	54.2	31.3	70.9	60.4	56.7
LS97-1218	54.0	43.4	36.2	57.4	48.0	64.4
LS97-3221	41.0	29.8	30.1	49.8	48.3	54.0
Md95-5358	49.5	50.1	31.1	59.1	52.3	51.5
Md96-5722	47.2	51.4	32.8	62.2	56.6	49.4
C.V. (%)	10.4	21.8	6.6	6.6	8.6	6.4
L.S.D. (5%)	7.9	15.6	3.4	5.7	7.2	4.8
Row Sp. (In.)	24	30	30	15	24	30
Rows/Plot	4	4	4	6	4	4
Reps	3	3	3	3	3	3

\* Data not included in mean.

UNIFORM TEST IV, 2001

YIELD (bu/a)

Strain	Portageville Clay MO	Portageville Loam MO	Mt. Orab OH	South Charleston OH
HS93-4118 (IV)	41.9	55.3	70.1	77.7
LS93-0375 (SCN)	41.5	57.1	69.4	70.1
Macon (III)	38.1	53.5	64.1	73.7
Strong (dt1)	31.8	34.4	50.3	73.9
C1981	45.9	54.0	74.3	71.6
HC94-63PR	34.9	28.4	52.7	69.2
HC94-944	31.8	29.7	52.5	76.8
HC94-2727	40.7	55.3	62.2	73.7
HC95-933	28.5	41.5	57.3	74.9
HC95-4337	39.8	35.6	49.4	66.7
HC96-182PR	44.2	47.2	74.0	69.3
HC96-4458	38.8	52.0	57.7	68.7
HC97-166PR	40.2	47.4	65.1	74.3
HC97-168PR	45.2	51.2	65.8	76.5
HC97-235PR	46.2	52.2	73.3	70.2
K1493	51.0	43.6	73.1	66.2
K1497	47.3	46.4	62.2	68.2
LN97-13138	45.8	48.5	61.4	70.0
LN97-15076	39.3	51.3	71.2	64.9
LS97-1218	39.6	57.6	53.9	74.7
LS97-3221	41.0	46.6	61.5	60.0
Md95-5358	29.6	58.2	64.4	67.9
Md96-5722	39.2	54.9	64.7	74.2
C.V. (%)	9.8	9.5	6.8	5.0
L.S.D. (5%)	5.4	6.2	7.5	5.8
Row Sp. (In.)	30	30	15	7.5
Rows/Plot	4	4	6	8
Reps	3	3	3	3

## UNIFORM TEST IV, 2001

## YIELD RANK

Strain	Yield Rank	George-town DE	Middle-town DE	Belle-ville IL	Newton IL	Ullin IL	Urbana IL	Butler-ville IN
HS93-4118 (IV)	3	18	9	1	6	8	9	7
LS93-0375 (SCN)	9	22	6	18	3	12	1	10
Macon (III)	15	20	19	20	13	17	2	11
Strong (dt1)	23	16	19	16	23	21	8	22
C1981	1	7	2	6	10	13	6	4
HC94-63PR	22	19	6	14	22	22	14	20
HC94-944	19	9	23	7	20	18	4	21
HC94-2727	11	8	4	12	12	9	20	15
HC95-933	20	14	18	19	21	23	23	19
HC95-4337	21	10	16	11	19	19	5	23
HC96-182PR	7	17	5	4	8	7	16	3
HC96-4458	17	2	13	17	7	14	19	17
HC97-166PR	14	21	15	8	14	4	22	9
HC97-168PR	10	6	22	10	15	10	15	14
HC97-235PR	7	14	12	3	9	3	12	8
K1493	6	10	21	2	17	6	18	6
K1497	12	12	14	13	18	11	10	5
LN97-13138	16	23	9	9	16	20	7	16
LN97-15076	1	13	9	20	11	1	11	2
LS97-1218	3	4	1	5	1	16	3	18
LS97-3221	18	5	17	22	5	15	21	1
Md95-5358	13	3	6	23	2	5	13	13
Md96-5722	5	1	3	15	4	2	17	12

## UNIFORM TEST IV, 2001

## YIELD RANK

Strain	Lafayette IN	Manhattan KS	Ottawa KS	Lexington KY	Queens- town MD	Kingdom City MO
HS93-4118 (IV)	2	13	18	13	5	9
LS93-0375 (SCN)	5	15	7	16	11	2
Macon (III)	17	14	17	9	17	5
Strong (dt1)	14	22	19	17	11	22
C1981	15	1	3	10	11	7
HC94-63PR	16	23	23	12	10	24
HC94-944	19	21	22	8	2	23
HC94-2727	13	6	2	11	14	4
HC95-933	18	18	20	5	6	19
HC95-4337	22	19	5	19	21	21
HC96-182PR	10	11	12	2	17	8
HC96-4458	8	17	21	22	16	16
HC97-166PR	20	16	14	7	23	11
HC97-168PR	12	9	15	6	7	2
HC97-235PR	21	2	9	4	14	13
K1493	6	10	6	3	4	5
K1497	11	8	8	18	8	12
LN97-13138	7	7	10	13	22	14
LN97-15076	3	3	11	1	1	9
LS97-1218	1	12	1	21	20	1
LS97-3221	23	20	16	23	17	15
Md95-5358	4	5	12	20	9	18
Md96-5722	9	4	4	15	3	20

UNIFORM TEST IV, 2001

YIELD RANK

Strain	Portageville Clay MO	Portageville Loam MO	Mt. Orab OH	South Charleston OH
HS93-4118 (IV)	8	4	6	1
LS93-0375 (SCN)	9	3	7	13
Macon (III)	18	8	12	9
Strong (dt1)	21	22	22	8
C1981	4	7	1	11
HC94-63PR	20	24	20	16
HC94-944	21	23	21	2
HC94-2727	11	4	13	9
HC95-933	24	17	18	4
HC95-4337	13	21	23	20
HC96-182PR	7	16	2	15
HC96-4458	17	10	17	17
HC97-166PR	12	15	9	6
HC97-168PR	6	12	8	3
HC97-235PR	3	9	3	12
K1493	1	20	4	21
K1497	2	19	13	18
LN97-13138	5	14	16	14
LN97-15076	15	11	5	22
LS97-1218	14	2	19	5
LS97-3221	10	18	15	23
Md95-5358	23	1	11	19
Md96-5722	16	6	10	7

UNIFORM TEST IV, 2001

MATURITY (date)

Strain	Mean 16 Tests	George- town DE	Middle- town DE	Belle- ville IL	Newton IL	Ullin IL	Urbana IL	Butler- ville IN
HS93-4118 (IV)	9/23	9/22	9/24	9/24	9/10	9/16	9/25	9/25
LS93-0375 (SCN)	2.0	2	3	5	2	3	1	+5
Macon (III)	-0.6	0	-1	2	0	-2	-2	0
Strong (dt1)	0.6	4	-1	4	-3	4	2	-3
C1981	3.3	2	5	6	4	4	6	+9
HC94-63PR	-0.7	1	-1	1	-3	1	0	-3
HC94-944	-0.7	1	-1	1	-3	1	0	-5
HC94-2727	0.5	3	2	2	2	0	1	0
HC95-933	1.0	4	1	4	-2	3	1	+2
HC95-4337	-0.4	0	3	3	-1	0	2	-4
HC96-182PR	1.2	1	-1	5	3	3	1	+6
HC96-4458	0.3	2	-2	2	1	1	0	+1
HC97-166PR	-1.4	-1	0	0	-4	-2	-5	-4
HC97-168PR	-0.9	-1	-2	1	-3	-1	-5	-3
HC97-235PR	2.8	0	4	5	4	6	4	+8
K1493	2.7	2	2	5	3	4	6	+8
K1497	3.5	3	5	6	3	6	5	+9
LN97-13138	-0.4	0	0	2	-1	-1	-4	-1
LN97-15076	2.3	1	1	6	3	4	4	+7
LS97-1218	2.5	3	6	4	3	2	3	+4
LS97-3221	3.3	3	3	6	4	8	5	+7
Md95-5358	1.8	1	-3	3	3	3	1	+4
Md96-5722	2.3	4	1	2	3	4	4	+2
Date Planted	5/12	5/15	6/6	5/9	4/28	4/28	5/1	5/10
Days to Mature	135	130	110	138	135	141	147	138



UNIFORM TEST IV, 2001

MATURITY (date)

Strain	Lafayette IN	Manhattan KS	Ottawa KS	Lexington KY	Queens- town MD	Kingdom City MO
HS93-4118 (IV)	10/6	9/28		9/28	10/1	9/28
LS93-0375 (SCN)	+1	1		2	5	0
Macon (III)	-4	-1		0	1	-3
Strong (dt1)	-4	3		0	-1	-3
C1981	+4	2		3	6	1
HC94-63PR	-3	2		-3	-2	-4
HC94-944	-6	1		0	-2	-4
HC94-2727	-1	1		-1	3	-1
HC95-933	-2	2		2	2	-3
HC95-4337	-3	2		-3	-3	-4
HC96-182PR	+4	-3		2	2	-2
HC96-4458	+2	2		0	0	0
HC97-166PR	-5	-4		1	0	-4
HC97-168PR	-5	-3		1	1	-4
HC97-235PR	+1	1		5	4	0
K1493	+3	2		3	5	0
K1497	+3	3		5	5	4
LN97-13138	-2	0		0	-1	-2
LN97-15076	+1	3		1	5	1
LS97-1218	0	4		3	3	3
LS97-3221	+2	6		3	2	5
Md95-5358	+2	4		4	3	4
Md96-5722	+2	3		4	5	2
Date Planted	5/15	5/9		5/18	6/12	5/3
Days to Mature	144	142		133	111	148

UNIFORM TEST IV, 2001

MATURITY (date)

Strain	Portageville Clay MO	Portageville Loam MO	Mt. Orab OH	South Charleston OH
HS93-4118 (IV)	9/23	9/10	9/23	9/30
LS93-0375 (SCN)	+1	+1	4	3
Macon (III)	0	-1	-2	-2
Strong (dt1)	-3	+1	-2	2
C1981	0	+1	7	6
HC94-63PR	-3	-2	-4	1
HC94-944	-6	-1	-7	1
HC94-2727	+1	0	-6	2
HC95-933	-2	+1	-1	3
HC95-4337	-1	-1	-6	1
HC96-182PR	-2	-2	4	5
HC96-4458	-1	-1	-2	1
HC97-166PR	-6	-3	-4	0
HC97-168PR	-3	+1	-1	2
HC97-235PR	-1	0	5	7
K1493	+1	-2	5	6
K1497	+2	+3	4	6
LN97-13138	-1	-3	0	1
LN97-15076	0	+1	3	4
LS97-1218	+1	+1	2	4
LS97-3221	+4	+1	4	4
Md95-5358	+1	+1	3	3
Md96-5722	0	+4	2	2
Date Planted	5/25	5/10	5/4	5/2
Days to Mature	121	123	142	151

## UNIFORM TEST IV, 2001

## LODGING (score)

Strain	Mean 17 Tests	George- town DE	Middle- town DE	Belle- ville IL	Newton IL	Ullin IL	Urbana IL	Butler- ville IN
HS93-4118 (IV)	1.3	1.0	1.0	1.7	1.0	1.0	1.3	1.0
LS93-0375 (SCN)	1.3	1.7	1.0	2.0	1.0	1.0	1.7	1.0
Macon (III)	1.3	1.0	1.0	2.8	1.2	1.0	1.2	1.0
Strong (dt1)	1.1	1.0	1.0	1.0	1.0	1.0	1.2	1.0
C1981	2.0	1.3	1.0	3.0	1.7	1.0	2.3	2.5
HC94-63PR	1.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0
HC94-944	1.1	1.0	1.0	1.0	1.0	1.0	1.2	1.0
HC94-2727	1.8	1.7	1.0	2.7	1.0	1.0	1.8	2.2
HC95-933	1.2	1.0	1.0	1.7	1.0	1.0	1.0	1.0
HC95-4337	1.1	1.0	1.0	1.0	1.0	1.0	1.3	1.0
HC96-182PR	1.6	1.0	1.0	3.0	1.2	1.0	2.0	2.5
HC96-4458	2.4	2.0	1.0	4.3	1.8	1.0	2.3	2.2
HC97-166PR	1.5	1.0	1.0	2.8	1.3	1.0	1.7	1.3
HC97-168PR	1.5	1.0	1.0	3.2	1.3	1.0	1.8	1.3
HC97-235PR	1.8	1.0	1.0	3.0	1.5	1.0	2.0	2.7
K1493	1.8	1.3	1.0	3.3	1.2	1.0	2.0	2.7
K1497	1.7	1.3	1.0	3.3	1.2	1.0	2.0	2.0
LN97-13138	1.5	1.0	1.0	3.2	1.0	1.0	1.2	1.2
LN97-15076	1.5	1.0	1.0	3.2	1.2	1.0	1.7	1.2
LS97-1218	2.0	1.7	1.0	3.3	1.5	1.0	1.8	1.8
LS97-3221	2.0	1.3	1.0	3.2	1.8	1.0	2.2	2.2
Md95-5358	1.6	1.7	1.0	3.0	1.0	1.0	1.7	1.3
Md96-5722	1.5	1.0	1.0	2.2	1.2	1.0	2.2	1.2

UNIFORM TEST IV, 2001

LODGING (score)

Strain	Lafayette IN	Manhattan KS	Ottawa KS	Lexington KY	Queens- town MD	Kingdom City MO
HS93-4118 (IV)	1.2	1.7	1.0	2.2	1.7	1.0
LS93-0375 (SCN)	1.0	1.0	1.0	2.0	1.8	1.0
Macon (III)	1.5	1.0	1.0	2.2	1.8	1.0
Strong (dt1)	1.0	1.0	1.0	1.2	1.8	1.0
C1981	1.3	1.7	1.3	2.3	2.7	2.7
HC94-63PR	1.0	1.0	1.0	1.8	2.3	1.0
HC94-944	1.0	1.0	1.0	1.2	2.0	1.0
HC94-2727	2.0	1.0	1.3	2.5	2.8	1.7
HC95-933	1.0	1.0	1.0	1.7	2.3	1.0
HC95-4337	1.0	1.0	1.0	1.3	2.0	1.0
HC96-182PR	1.3	1.3	1.3	2.3	1.5	2.0
HC96-4458	2.0	3.0	2.0	2.7	3.3	2.7
HC97-166PR	2.2	1.0	1.0	2.3	1.5	1.0
HC97-168PR	2.0	1.0	1.0	2.2	1.3	1.0
HC97-235PR	1.5	1.3	1.0	2.5	2.5	2.3
K1493	1.8	1.0	1.0	2.5	2.2	1.7
K1497	1.3	1.0	1.0	2.7	2.0	2.0
LN97-13138	1.7	1.3	1.0	2.5	1.7	1.3
LN97-15076	1.3	1.0	1.0	2.0	2.0	1.7
LS97-1218	1.8	1.0	1.0	2.7	3.0	2.3
LS97-3221	2.3	2.0	1.3	2.5	2.7	2.0
Md95-5358	1.3	1.3	1.0	2.5	1.7	2.7
Md96-5722	1.2	1.3	1.3	2.5	2.2	1.7

UNIFORM TEST IV, 2001

LODGING (score)

Strain	Portageville Clay MO	Portageville Loam MO	Mt. Orab OH	South Charleston OH
HS93-4118 (IV)	1.0	1.0	1.9	1.7
LS93-0375 (SCN)	1.0	1.0	1.8	1.3
Macon (III)	1.0	1.2	1.1	1.5
Strong (dt1)	1.0	1.0	1.0	1.5
C1981	1.3	1.7	3.4	2.2
HC94-63PR	1.0	1.0	1.0	1.2
HC94-944	1.0	1.0	1.1	1.0
HC94-2727	1.7	1.3	3.0	1.7
HC95-933	1.0	1.0	1.0	1.7
HC95-4337	1.0	1.0	1.0	1.0
HC96-182PR	1.0	1.2	2.7	1.7
HC96-4458	2.0	2.2	3.4	2.8
HC97-166PR	1.2	1.0	2.1	1.7
HC97-168PR	1.2	1.0	2.1	1.8
HC97-235PR	1.0	1.2	3.1	2.2
K1493	1.5	1.0	2.7	2.2
K1497	1.5	1.2	2.3	2.2
LN97-13138	1.3	1.0	1.8	1.8
LN97-15076	1.0	1.2	2.2	1.7
LS97-1218	1.5	1.7	3.9	2.3
LS97-3221	2.0	1.8	2.7	2.3
Md95-5358	1.0	1.5	2.3	2.0
Md96-5722	1.7	1.7	1.7	1.3

UNIFORM TEST IV, 2001

PLANT HEIGHT (inches)

Strain	Mean 17 Tests	George- town DE	Middle- town DE	Belle- ville IL	Newton IL	Ullin IL	Urbana IL	Butler- ville IN
HS93-4118 (IV)	32	25	27	36	34	27	35	30
LS93-0375 (SCN)	34	30	30	40	38	29	38	29
Macon (III)	31	25	26	36	36	24	37	30
Strong (dt1)	20	22	26	19	24	15	23	17
C1981	39	31	34	43	44	34	41	36
HC94-63PR	18	19	19	18	17	14	23	15
HC94-944	19	21	25	18	20	16	26	14
HC94-2727	37	30	35	41	42	31	40	35
HC95-933	20	23	22	19	22	16	24	17
HC95-4337	20	22	29	23	22	17	25	15
HC96-182PR	37	30	31	43	42	33	39	37
HC96-4458	39	30	34	46	47	36	40	38
HC97-166PR	34	27	29	38	39	30	39	33
HC97-168PR	34	28	28	40	40	35	34	30
HC97-235PR	36	29	24	42	41	35	40	36
K1493	36	28	31	42	41	30	38	34
K1497	34	29	31	33	38	32	36	33
LN97-13138	31	26	26	36	36	24	36	30
LN97-15076	36	28	28	39	42	33	39	35
LS97-1218	36	31	35	40	42	31	37	34
LS97-3221	39	28	28	49	48	36	41	36
Md95-5358	37	31	31	39	46	31	43	33
Md96-5722	37	31	33	39	43	32	40	32

## UNIFORM TEST IV, 2001

## PLANT HEIGHT (inches)

Strain	Lafayette IN	Manhattan KS	Ottawa KS	Lexington KY	Queens- town MD	Kingdom City MO
HS93-4118 (IV)	36	33	26	38	29	32
LS93-0375 (SCN)	37	32	30	40	31	33
Macon (III)	38	31	28	41	28	30
Strong (dt1)	23	21	20	24	19	15
C1981	42	42	35	43	36	40
HC94-63PR	22	16	21	25	18	12
HC94-944	21	20	19	24	19	14
HC94-2727	40	40	32	45	34	33
HC95-933	24	19	20	29	20	16
HC95-4337	21	16	17	25	19	14
HC96-182PR	42	39	33	44	33	37
HC96-4458	45	40	34	46	35	41
HC97-166PR	38	34	32	41	27	33
HC97-168PR	38	33	31	41	27	36
HC97-235PR	40	37	31	43	32	39
K1493	40	35	32	41	34	35
K1497	36	36	28	38	31	35
LN97-13138	37	30	28	38	26	32
LN97-15076	41	36	31	42	34	35
LS97-1218	42	35	31	41	32	33
LS97-3221	43	43	36	47	34	43
Md95-5358	42	41	30	43	31	42
Md96-5722	44	40	32	43	32	40

UNIFORM TEST IV, 2001

PLANT HEIGHT (inches)

Strain	Portageville Clay MO	Portageville Loam MO	Mt. Orab OH	South Charleston OH
HS93-4118 (IV)	32	31	27	38
LS93-0375 (SCN)	35	32	28	40
Macon (III)	31	33	23	36
Strong (dt1)	19	14	14	26
C1981	40	37	37	46
HC94-63PR	19	12	15	24
HC94-944	18	11	14	23
HC94-2727	37	37	31	42
HC95-933	19	13	15	27
HC95-4337	21	12	16	23
HC96-182PR	37	37	35	44
HC96-4458	40	40	34	41
HC97-166PR	37	34	27	37
HC97-168PR	30	34	27	40
HC97-235PR	37	36	31	43
K1493	38	34	33	40
K1497	35	31	30	41
LN97-13138	33	30	28	37
LN97-15076	34	39	32	41
LS97-1218	35	36	27	43
LS97-3221	39	41	31	43
Md95-5358	30	38	32	42
Md96-5722	36	35	30	45



## UNIFORM TEST IV, 2001

## SEED SIZE (g/100)

Strain	Mean 14 Tests	George- town DE	Middle- town DE	Belle- ville IL	Newton IL	Ullin IL	Urbana IL	Butler- ville IN
HS93-4118 (IV)	13.3			14.7	12.2	12.6	12.5	14.1
LS93-0375 (SCN)	15.5			14.8	13.4	11.5	15.0	14.6
Macon (III)	15.5			15.4	12.6	12.8	14.6	15.2
Strong (dt1)	16.6			18.2	12.8	14.2	17.0	15.7
C1981	13.3			13.5	11.7	10.6	12.7	13.7
HC94-63PR	15.6			15.8	12.6	13.1	15.5	14.3
HC94-944	13.9			14.5	11.3	12.9	15.0	12.8
HC94-2727	14.2			13.2	12.0	11.4	13.9	13.9
HC95-933	14.3			14.7	11.5	11.9	14.7	15.1
HC95-4337	13.7			13.8	11.3	10.9	14.4	13.0
HC96-182PR	14.0			14.5	12.1	10.7	13.2	14.6
HC96-4458	14.8			14.3	11.4	11.8	12.7	14.7
HC97-166PR	13.6			13.6	11.0	11.6	12.3	13.7
HC97-168PR	14.1			14.1	11.1	11.7	12.6	14.3
HC97-235PR	13.2			13.7	11.6	11.6	12.6	14.3
K1493	13.4			13.6	10.9	10.6	12.9	14.1
K1497	13.9			14.0	11.2	11.7	13.8	14.5
LN97-13138	13.7			13.1	11.7	10.7	13.2	14.7
LN97-15076	15.3			15.5	12.7	12.6	14.5	16.3
LS97-1218	13.9			14.0	11.6	10.9	13.0	14.5
LS97-3221	14.0			14.4	11.7	12.0	13.2	14.0
Md95-5358	17.3			17.7	14.6	14.6	17.1	17.7
Md96-5722	17.0			17.2	14.5	13.9	16.1	16.1

## UNIFORM TEST IV, 2001

## SEED SIZE (g/100)

Strain	Lafayette IN	Manhattan KS	Ottawa KS	Lexington KY	Queens- town MD	Kingdom City MO
HS93-4118 (IV)	17.5	16.1	15.9		14.0	19.0
LS93-0375 (SCN)	18.8	16.4	18.2		14.6	20.0
Macon (III)	18.5	15.3	16.3		15.0	19.0
Strong (dt1)	18.7	18.9	18.3		16.1	20.0
C1981	15.2	15.7	13.8		11.9	18.0
HC94-63PR	18.6	19.1	17.9		15.0	19.0
HC94-944	15.7	16.2	13.0		13.2	17.0
HC94-2727	17.2	17.9	17.0		12.8	18.0
HC95-933	16.9	15.0	14.9		13.5	18.0
HC95-4337	14.4	14.9	15.4		12.3	18.0
HC96-182PR	16.7	14.5	14.8		13.0	18.0
HC96-4458	17.8	15.9	17.3		13.4	19.0
HC97-166PR	14.6	16.4	12.6		12.6	19.0
HC97-168PR	15.4	15.4	14.0		13.0	18.0
HC97-235PR	15.9	11.7	14.0		12.3	17.0
K1493	17.0	14.8	14.0		12.3	18.0
K1497	16.6	15.9	15.4		12.6	19.0
LN97-13138	17.2	14.4	13.9		13.4	17.0
LN97-15076	18.3	15.8	16.2		14.9	19.0
LS97-1218	16.0	17.1	15.3		12.5	18.0
LS97-3221	15.6	16.0	15.1		12.6	18.0
Md95-5358	21.7	18.8	17.7		16.8	18.0
Md96-5722	20.5	19.6	18.2		16.2	21.0

UNIFORM TEST IV, 2001

SEED SIZE (g/100)

Strain	Portageville Clay MO	Portageville Loam MO	Mt. Orab OH	South Charleston OH
HS93-4118 (IV)	13.4	13.4	13.9	14.9
LS93-0375 (SCN)	14.1	14.8	14.8	15.4
Macon (III)	14.6	15.8	14.9	16.6
Strong (dt1)	15.0	16.0	13.9	17.5
C1981	11.7	10.7	13.1	13.2
HC94-63PR	13.4	15.3	13.2	15.4
HC94-944	13.4	14.6	11.5	13.4
HC94-2727	12.9	12.5	12.8	13.9
HC95-933	14.2	14.0	12.2	14.1
HC95-4337	14.2	14.3	11.1	13.7
HC96-182PR	12.6	12.9	13.3	14.5
HC96-4458	14.5	14.3	13.8	15.6
HC97-166PR	11.3	12.6	13.1	15.4
HC97-168PR	15.1	13.0	13.7	15.6
HC97-235PR	11.8	11.0	13.2	13.5
K1493	11.8	10.9	13.3	13.8
K1497	12.0	10.9	12.5	14.1
LN97-13138	12.2	13.0	13.0	14.8
LN97-15076	13.1	13.7	15.1	15.8
LS97-1218	11.9	12.1	13.2	14.1
LS97-3221	13.2	12.2	13.8	14.2
Md95-5358	16.0	14.9	17.2	19.7
Md96-5722	16.7	15.6	16.5	16.5

UNIFORM TEST IV, 2001

SEED QUALITY (score)

Strain	Mean 14 Tests	George- town DE	Middle- town DE	Belle- ville IL	Newton IL	Ullin IL	Urbana IL	Butler- ville IN
HS93-4118 (IV)	2.1			4.0	1.5	2.0	2.5	1.0
LS93-0375 (SCN)	1.8			2.0	1.0	3.0	2.5	1.0
Macon (III)	1.8			2.0	1.5	2.0	2.5	1.0
Strong (dt1)	1.8			3.0	1.5	3.0	1.0	1.0
C1981	1.8			1.0	1.5	2.0	3.0	1.0
HC94-63PR	1.9			3.0	1.0	3.0	1.5	1.0
HC94-944	1.6			2.0	1.0	2.0	1.5	1.0
HC94-2727	1.8			1.0	1.5	2.0	2.0	1.0
HC95-933	1.8			2.0	1.5	3.0	1.5	1.0
HC95-4337	1.7			2.0	1.0	3.0	2.0	1.0
HC96-182PR	1.9			2.0	1.0	2.0	3.0	1.0
HC96-4458	2.2			3.0	2.0	4.0	2.5	1.5
HC97-166PR	1.7			1.0	1.0	2.0	2.0	1.0
HC97-168PR	1.8			1.0	1.0	2.0	2.5	1.0
HC97-235PR	1.9			2.0	1.0	3.0	3.0	1.0
K1493	1.9			2.0	1.0	2.0	3.0	1.0
K1497	1.8			2.0	1.0	2.0	3.0	1.0
LN97-13138	1.8			2.0	1.5	2.0	3.0	1.0
LN97-15076	2.0			2.0	1.5	3.0	3.0	1.0
LS97-1218	1.8			2.0	1.0	2.0	3.0	1.5
LS97-3221	1.8			1.0	1.0	2.0	3.0	1.0
Md95-5358	2.3			5.0	1.0	3.0	3.0	1.5
Md96-5722	2.3			4.0	1.5	4.0	3.5	1.5

UNIFORM TEST IV, 2001

SEED QUALITY (score)

Strain	Lafayette IN	Manhattan KS	Ottawa KS	Lexington KY	Queens- town MD	Kingdom City MO
HS93-4118 (IV)	1.5	2.0	2.0		1.2	2.0
LS93-0375 (SCN)	1.0	2.0	2.0		1.0	1.0
Macon (III)	1.5	2.0	2.0		1.0	1.0
Strong (dt1)	1.0	2.0	2.0		1.0	1.0
C1981	1.0	2.0	2.0		1.0	2.0
HC94-63PR	1.0	2.0	2.0		1.0	2.0
HC94-944	1.0	2.0	2.0		1.0	1.0
HC94-2727	1.5	2.0	2.0		1.0	2.0
HC95-933	1.0	2.0	2.0		1.0	1.0
HC95-4337	1.0	2.0	2.0		1.0	1.0
HC96-182PR	1.5	2.0	2.0		1.0	2.0
HC96-4458	1.5	3.0	2.0		1.0	1.0
HC97-166PR	1.0	2.0	2.0		1.0	2.0
HC97-168PR	1.0	2.0	2.0		1.0	2.0
HC97-235PR	1.0	2.0	2.0		1.0	2.0
K1493	1.0	2.0	2.0		1.0	3.0
K1497	1.5	2.0	2.0		1.0	1.0
LN97-13138	1.0	2.0	2.0		1.0	1.0
LN97-15076	1.0	2.0	2.0		1.0	3.0
LS97-1218	1.0	2.0	2.0		1.0	1.0
LS97-3221	1.0	2.0	2.0		1.0	2.0
Md95-5358	1.5	3.0	2.0		1.2	1.0
Md96-5722	1.0	3.0	2.0		1.0	1.0

UNIFORM TEST IV, 2001

SEED QUALITY (score)

Strain	Portageville Clay MO	Portageville Loam MO	Mt. Orab OH	South Charleston OH
HS93-4118 (IV)	3.0	3.0	1.0	2.0
LS93-0375 (SCN)	3.0	3.0	1.0	1.0
Macon (III)	3.0	3.0	1.0	1.0
Strong (dt1)	3.0	3.0	1.0	1.5
C1981	3.0	3.0	1.0	1.5
HC94-63PR	3.0	3.0	1.0	1.5
HC94-944	3.0	3.0	1.0	1.5
HC94-2727	3.0	3.0	1.0	1.5
HC95-933	4.0	3.0	1.0	1.0
HC95-4337	3.0	3.0	1.0	1.0
HC96-182PR	3.0	3.0	1.0	1.5
HC96-4458	3.0	3.0	1.2	1.5
HC97-166PR	3.0	3.0	1.0	2.0
HC97-168PR	3.0	3.0	1.0	2.0
HC97-235PR	2.0	3.0	1.0	2.0
K1493	3.0	3.0	1.0	1.5
K1497	3.0	3.0	1.0	2.0
LN97-13138	3.0	3.0	1.0	1.5
LN97-15076	2.0	3.0	1.0	2.0
LS97-1218	2.0	3.0	1.0	2.0
LS97-3221	3.0	3.0	1.0	2.0
Md95-5358	4.0	3.0	1.0	1.5
Md96-5722	3.0	3.0	1.0	2.5

UNIFORM TEST IV, 2001

GREEN-STEM (score)

Strain	Mean 4 Tests	George- town DE	Middle- town DE	Belle- ville IL	Newton IL	Ullin IL	Urbana IL	Butler- ville IN
HS93-4118 (IV)	1.8	3.0	1.0					
LS93-0375 (SCN)	2.4	3.0	3.0					
Macon (III)	1.8	4.0	1.0					
Strong (dt1)	2.7	5.0	2.0					
C1981	2.4	4.0	3.0					
HC94-63PR	2.4	5.0	2.0					
HC94-944	2.1	4.0	2.0					
HC94-2727	2.3	4.0	3.0					
HC95-933	2.6	5.0	2.0					
HC95-4337	2.4	3.0	4.0					
HC96-182PR	2.2	4.0	2.0					
HC96-4458	2.9	5.0	4.0					
HC97-166PR	1.7	3.0	1.0					
HC97-168PR	2.0	2.0	3.0					
HC97-235PR	1.6	2.0	2.0					
K1493	2.2	3.0	3.0					
K1497	2.5	4.0	3.0					
LN97-13138	1.8	3.0	2.0					
LN97-15076	2.1	3.0	2.0					
LS97-1218	1.7	2.0	2.0					
LS97-3221	1.9	3.0	2.0					
Md95-5358	1.8	2.0	2.0					
Md96-5722	2.5	3.0	2.0					

UNIFORM TEST IV, 2001

GREEN-STEM (score)

Strain	Lafayette IN	Manhattan KS	Ottawa KS	Lexington KY	Queens- town MD	Kingdom City MO
HS93-4118 (IV)						2.3
LS93-0375 (SCN)						2.7
Macon (III)						1.0
Strong (dt1)						1.7
C1981						1.7
HC94-63PR						1.0
HC94-944						1.0
HC94-2727						1.0
HC95-933						1.7
HC95-4337						1.7
HC96-182PR						1.7
HC96-4458						1.3
HC97-166PR						1.0
HC97-168PR						1.3
HC97-235PR						1.3
K1493						1.7
K1497						1.7
LN97-13138						1.3
LN97-15076						2.0
LS97-1218						1.7
LS97-3221						1.3
Md95-5358						1.3
Md96-5722						3.0



UNIFORM TEST IV, 2001

GREEN STEM (score)

Strain	Portageville Clay MO	Portageville Loam MO	Mt. Orab OH	South Charleston OH
HS93-4118 (IV)				1.0
LS93-0375 (SCN)				1.0
Macon (III)				1.0
Strong (dt1)				2.0
C1981				1.0
HC94-63PR				1.7
HC94-944				1.3
HC94-2727				1.3
HC95-933				1.7
HC95-4337				1.0
HC96-182PR				1.0
HC96-4458				1.3
HC97-166PR				1.7
HC97-168PR				1.7
HC97-235PR				1.0
K1493				1.0
K1497				1.3
LN97-13138				1.0
LN97-15076				1.3
LS97-1218				1.3
LS97-3221				1.3
Md95-5358				2.0
Md96-5722				2.0

UNIFORM TEST IV, 2001

PROTEIN (%)

Strain	Mean 5 Tests	Urbana IL	Lafayette IN	Manhattan KS	Lexington KY	Mt. Orab OH
HS93-4118 (IV)	39.0	40.5	39.0	39.9	36.6	38.9
LS93-0375 (SCN)	40.8	42.7	40.7	40.9	38.8	41.0
Macon (III)	39.4	41.0	39.4	40.1	36.7	40.0
Strong (dt1)	40.7	42.5	40.1	41.9	38.1	40.8
C1981	41.6	43.7	41.3	41.7	39.5	42.1
HC94-63PR	39.6	41.9	39.3	39.6	36.4	40.5
HC94-944	39.7	41.8	39.1	40.5	37.3	39.9
HC94-2727	39.4	41.6	38.5	39.9	36.3	40.6
HC95-933	40.5	42.6	40.4	40.1	38.3	40.9
HC95-4337	39.8	40.5	37.9	41.5	39.0	40.2
HC96-182PR	41.9	43.8	41.5	42.1	38.8	43.3
HC96-4458	39.0	41.1	39.4	39.6	35.4	39.6
HC97-166PR	42.0	44.5	41.0	43.5	39.4	41.7
HC97-168PR	41.8	44.3	40.6	42.6	38.9	42.4
HC97-235PR	41.6	44.6	42.0	40.9	39.2	41.6
K1493	41.2	44.1	41.0	41.4	38.0	41.7
K1497	41.1	43.5	40.9	41.7	38.4	41.0
LN97-13138	41.0	43.3	41.6	40.5	38.2	41.5
LN97-15076	41.1	43.2	40.5	41.9	38.0	41.7
LS97-1218	40.2	41.8	40.7	40.6	37.1	40.8
LS97-3221	40.6	43.7	40.6	41.7	36.9	40.4
Md95-5358	40.5	43.0	40.9	40.9	37.6	39.9
Md96-5722	40.5	42.6	40.0	42.3	37.4	40.4

UNIFORM TEST IV, 2001

OIL (%)

Strain	Mean 5 Tests	Urbana IL	Lafayette IN	Manhattan KS	Lexington KY	Mt. Orab OH
HS93-4118 (IV)	20.8	20.7	20.2	20.9	21.2	21.2
LS93-0375 (SCN)	20.6	20.3	20.1	21.3	20.7	20.6
Macon (III)	21.4	21.4	21.1	21.5	21.8	21.4
Strong (dt1)	21.2	21.0	21.2	21.2	21.5	20.9
C1981	20.4	19.0	20.5	21.0	21.0	20.5
HC94-63PR	21.7	21.9	21.4	21.7	22.3	21.1
HC94-944	21.3	21.9	20.8	21.5	21.6	21.0
HC94-2727	21.8	21.2	21.9	22.1	22.4	21.5
HC95-933	20.9	21.0	21.0	21.2	21.0	20.3
HC95-4337	21.5	22.0	22.4	21.1	20.7	21.2
HC96-182PR	20.8	20.6	20.8	21.0	21.7	19.8
HC96-4458	21.7	21.2	21.3	22.0	22.2	21.8
HC97-166PR	19.9	19.1	20.2	19.7	20.4	19.9
HC97-168PR	20.0	19.2	20.3	19.9	20.5	20.1
HC97-235PR	20.5	19.0	20.0	21.0	21.4	21.0
K1493	21.3	19.9	21.2	21.2	22.4	21.8
K1497	21.0	19.6	20.8	22.0	21.5	21.1
LN97-13138	20.7	20.5	20.3	21.3	21.0	20.3
LN97-15076	21.0	20.3	20.8	21.7	21.4	21.0
LS97-1218	21.2	20.3	21.0	21.8	21.7	21.2
LS97-3221	20.7	19.4	20.9	20.2	21.7	21.1
Md95-5358	20.6	19.7	20.1	20.9	21.1	21.4
Md96-5722	20.4	20.0	20.0	20.1	21.1	20.9

Preliminary Test IVA, 2001

	Strain	Parentage	Generation Composited	Unique Traits
1.	HS93-4118 (IV)	IA2007 x Dairyland DSR 304	F5	Rps1c
2.	LS93-0375 (SCN)	Asgrow A3935 x Pioneer P9402	F6	SCN
3.	Macon (III)	Sherman x Resnik	F5	
4.	A98-983008	A94-770016 x (IA1007 x Pioneer P9304)	F4	
5.	HC97-1611	HC78-676-3 x Stressland	F4	Dt1
6.	HC97-1691	Stressland x HC89-2237	F4	Dt1
7.	HC97-1722	HC89-2207 x IA2007	F4	Dt1
8.	HC97-1867	CAB 47 x Stressland	F4	Dt1
9.	HC97-3796	Resnik x CAB 47	F4	Dt1
10.	HC98-1276	Charleston BC x Stressland	F4	Dt1
11.	HC98-1277	Charleston BC x Stressland	F4	Dt1
12.	HC98-1290	CAB 47 x Stressland	F4	Dt1
13.	HC98-1291	CAB 47 x Stressland	F4	Dt1
14.	HC98-1328	Edison x Stressland	F4	Dt1
15.	HC98-1336	Edison x Stressland	F4	Dt1
16.	HC98-1343	Stressland x Croton 3.9	F4	Dt1
17.	HC98-1367	Stressland x HC89-2436	F4	Dt1
18.	HC98-1721	HC89-2241 x HC78-676 BC	F4	Dt1
19.	LG97-9701	LG89-1525 x A3322	F6	
20.	LS98-0223	Northup King 46-44 x Pioneer 9362	F6	SCN
21.	LS98-0582	Northup King 46-44 x Asgrow 4138	F6	SCN
22.	LS98-0656	Northup King 46-44 x Asgrow 4138	F6	SCN
23.	LS98-1229	LS88-1517 x Asgrow 4138	F6	SCN
24.	LS98-1386	LS88-1517 x Asgrow 4138	F6	SCN
25.	LS98-2259	Northup King 46-44 x Pioneer 9362	F6	SCN
26.	Md98-5165	S92-2713 x Corsica	F5	
27.	Md98-5295	S92-2713 x Stressland	F5	
28.	Md98-6295	Holladay x LN89-3615	F5	

**PRELIMINARY TEST IVA, 2001**  
**DESCRIPTIVE AND DISEASE DATA**

Strain	Descriptive Code	Shattering Score Manhattan	Stand Belle-ville %	PR Lafayette		PS Lafayette	P&SB Lafayette
				Race 4	Race 7	a %	n %
HS93-4118 (IV)	WGBDYBII	1.0	40.4	S	R	5	19
LS93-0375 (SCN)	PTBDYBII	1.0	92.3	S	R	32	52
Macon (III)	WTBIYBII	1.0	84.6	S	S	26	14
A98-983008	WGBIYYI	1.0	63.5	H	R	10	38
HC97-1611	PTBDYBrI	1.0	73.1	S	S	16	38
HC97-1691	PTBDYBII	1.0	53.8	R	S	10	54
HC97-1722	PTBDYBI+Bfl	1.0	69.2	S	H	14	18
HC97-1867	PTBDYBII	1.0	69.2	H	S	22	26
HC97-3796	PTBSYBII	1.0	73.1	R	R	10	18
HC98-1276	PTBSYBII	1.0	86.5	S	S	4	24
HC98-1277	PTBSYBII	1.0	76.9	S	S	10	18
HC98-1290	PTBSYBII	1.0	76.9	R	S	10	48
HC98-1291	PTBSYBII	1.0	63.5	S	S	16	52
HC98-1328	PTBDYBII	1.0	80.8	S	S	0	48
HC98-1336	PTTDYBII	1.0	80.8	R	R	14	24
HC98-1343	PTBDYBII	1.0	55.8	R	S	6	32
HC98-1367	PTBDYBII	1.0	71.2	R	S	10	22
HC98-1721	PTBDYBII	1.0	57.7	S	S	14	36
LG97-9701	WTTIYBII	1.0	76.9	R	R	6	10
LS98-0223	WTBDYBII	1.0	88.5	H	R	8	48
LS98-0582	WTBDYBII	1.0	57.7	S	R	18	40
LS98-0656	PTBDYBII	1.0	50.0	H	R	6	58
LS98-1229	WGTDYBfl	1.0	59.6	S	S	18	46
LS98-1386	WGTDYBfl	1.0	59.6	S	S	12	48
LS98-2259	PTTDYBII	1.0	84.6	S	S	4	40
Md98-5165	PTTIYBII	1.0	63.5	S	S	2	48
Md98-5295	WTBSYBII	1.0	80.8	H	H	4	42
Md98-6295	PTBSYBII	1.0	61.5	R	R	2	12

PRELIMINARY TEST IVA, 2001

REGIONAL SUMMARY

No. of Tests Strain	Yield 8 bu/a	Rank 8 No.	Maturity 10 Date	Lodging 10 Score	Plant Height 10 In.	Seed Size 9 g/100	Seed uality 9 Score	Green Stem 2 Score	Composition	
									Protein 5 %	Oil 5 %
HS93-4118 (IV)	60.1	4	9/26	1.5	33	14.9	1.9	1.3	38.8	21.3
LS93-0375 (SCN)	60.8	1	1.4	1.4	35	15.7	1.7	1.8	41.1	20.7
Macon (III)	58.2	8	-0.9	1.5	33	15.7	1.6	1.5	39.1	22.1
A98-983008	56.6	18	-2.1	1.5	30	20.6	2.9	1.5	39.2	21.5
HC97-1611	56.2	20	1.9	2.5	42	13.3	1.9	2.0	40.4	21.6
HC97-1691	60.6	2	1.4	2.4	39	12.7	1.6	1.3	42.2	21.6
HC97-1722	56.1	21	0.1	1.9	36	13.2	1.8	1.8	40.5	21.2
HC97-1867	57.6	11	0.2	2.3	40	13.8	1.8	2.0	40.6	21.8
HC97-3796	55.5	23	-0.4	1.9	41	15.2	1.7	1.3	39.2	21.7
HC98-1276	58.7	7	1.4	3.1	42	13.0	1.7	1.3	40.2	21.9
HC98-1277	56.8	17	0.9	2.9	41	13.2	1.6	2.0	39.8	21.9
HC98-1290	54.8	25	2.3	2.8	43	14.7	2.1	1.5	41.9	21.1
HC98-1291	54.6	26	1.9	2.7	44	14.1	1.9	1.5	40.9	21.7
HC98-1328	57.0	15	3.1	2.0	36	14.8	1.7	1.5	41.7	20.9
HC98-1336	51.6	27	-1.1	2.0	39	11.8	1.7	1.5	41.6	20.5
HC98-1343	59.2	5	1.9	2.0	38	13.7	1.7	1.8	42.0	20.3
HC98-1367	57.8	9	0.4	2.2	36	14.6	1.8	1.8	42.5	20.1
HC98-1721	47.2	28	-0.5	1.9	38	14.2	1.8	1.5	39.1	21.6
LG97-9701	55.4	24	0.8	2.2	37	15.5	1.8	1.8	39.1	21.5
LS98-0223	57.6	11	3.1	2.1	41	12.8	1.7	1.8	39.9	20.3
LS98-0582	60.2	3	4.0	2.1	39	14.3	1.6	1.8	40.7	20.3
LS98-0656	57.4	13	2.7	1.8	37	14.5	1.6	1.5	40.6	20.6
LS98-1229	56.5	19	2.9	2.4	38	16.1	1.8	1.3	41.9	20.2
LS98-1386	57.0	15	3.1	2.5	41	16.3	1.7	1.5	40.1	21.3
LS98-2259	59.1	6	2.2	2.1	38	12.6	1.7	1.8	39.6	20.6
Md98-5165	57.1	14	4.2	2.5	41	16.2	1.9	1.5	41.8	20.5
Md98-5295	57.8	9	4.2	2.8	39	13.9	1.9	1.5	41.2	21.0
Md98-6295	55.5	22	1.1	1.7	35	14.7	1.8	1.8	39.5	21.4

138.1 Days After Planting

PRELIMINARY TEST IVA, 2001

YIELD (bu/a)

Strain	Mean 8 Tests	Belleville IL	Urbana IL	Butlerville* IN	Manhattan* KS	Lexington KY
HS93-4118 (IV)	60.1	56.1	52.2	42.6	44.0	66.2
LS93-0375 (SCN)	60.8	64.5	52.1	48.3	30.7	62.4
Macon (III)	58.2	57.7	50.2	45.8	58.1	65.5
A98-983008	56.6	52.5	45.4	29.5	57.0	65.4
HC97-1611	56.2	58.1	39.7	38.5	50.8	70.5
HC97-1691	60.6	66.3	42.9	34.3	58.0	67.5
HC97-1722	56.1	60.8	47.7	42.4	32.7	63.4
HC97-1867	57.6	58.0	42.4	37.9	42.8	71.3
HC97-3796	55.5	66.6	42.1	37.3	55.6	56.2
HC98-1276	58.7	63.9	46.2	45.6	51.9	70.8
HC98-1277	56.8	60.6	47.0	43.0	57.3	67.1
HC98-1290	54.8	55.4	40.3	35.5	38.3	64.1
HC98-1291	54.6	63.1	37.4	39.3	28.1	59.1
HC98-1328	57.0	54.8	47.6	48.7	44.8	69.9
HC98-1336	51.6	65.9	45.7	45.0	48.2	55.0
HC98-1343	59.2	66.1	42.3	40.0	50.9	69.4
HC98-1367	57.8	66.3	46.0	42.1	67.9	66.4
HC98-1721	47.2	33.1	46.6	13.3	57.1	65.4
LG97-9701	55.4	52.4	48.9	36.8	43.8	65.4
LS98-0223	57.6	55.5	46.8	45.0	33.1	57.3
LS98-0582	60.2	59.7	49.2	40.3	55.8	64.8
LS98-0656	57.4	53.4	48.0	23.0	49.6	56.8
LS98-1229	56.5	65.8	47.0	35.8	36.6	59.1
LS98-1386	57.0	64.4	46.8	47.3	23.1	65.0
LS98-2259	59.1	60.7	48.9	36.5	52.1	58.6
Md98-5165	57.1	65.1	43.4	45.0	45.1	64.6
Md98-5295	57.8	58.2	44.4	46.9	57.3	66.9
Md98-6295	55.5	58.3	41.7	39.3	52.6	62.0
C.V. (%)		11.1	11.3	19.2	28.0	5.8
L.S.D. (5%)		13.5	10.6	15.5	27.0	6.4
Row Sp. (In.)		30	30	26	30	15
Rows/Plot		4	4	4	4	6
Reps		2	2	2	2	2

\* Data not included in mean.

PRELIMINARY TEST IVA, 2001

YIELD (bu/a)

Strain	Queenstown MD	Kingdom City MO	Portageville MO	Mt. Orab OH	South Charleston OH
HS93-4118 (IV)	41.9	58.5	52.9	76.4	77.0
LS93-0375 (SCN)	47.7	56.0	64.6	68.2	71.2
Macon (III)	42.5	53.3	59.3	59.5	77.2
A98-983008	44.4	55.5	49.9	67.1	72.9
HC97-1611	41.9	52.7	53.4	58.4	74.7
HC97-1691	39.6	59.4	56.8	71.2	81.3
HC97-1722	36.0	51.8	52.4	68.2	68.3
HC97-1867	39.0	51.3	56.8	67.8	74.0
HC97-3796	38.6	59.5	50.1	59.8	70.9
HC98-1276	37.2	60.6	50.9	70.9	69.5
HC98-1277	34.4	55.1	57.8	64.1	68.4
HC98-1290	38.0	45.2	52.4	68.5	74.7
HC98-1291	40.0	44.0	47.8	73.6	71.7
HC98-1328	37.8	52.3	58.5	67.3	67.5
HC98-1336	36.4	43.6	45.1	57.9	63.0
HC98-1343	40.4	52.7	55.5	70.6	76.4
HC98-1367	45.0	46.5	53.2	66.2	72.4
HC98-1721	33.8	45.8	48.1	33.6	71.2
LG97-9701	44.0	50.6	57.3	58.7	66.3
LS98-0223	41.5	60.6	68.0	64.9	65.9
LS98-0582	49.1	70.6	54.2	62.9	71.5
LS98-0656	46.3	60.9	53.2	69.4	71.0
LS98-1229	44.4	56.6	52.0	62.8	64.0
LS98-1386	46.9	53.5	55.7	57.7	66.2
LS98-2259	48.7	63.6	63.4	60.6	68.7
Md98-5165	40.1	57.5	60.1	58.4	67.5
Md98-5295	44.5	51.7	55.0	74.8	67.0
Md98-6295	38.6	48.1	54.0	70.1	71.4
C.V. (%)	11.2	5.7	8.5	8.5	4.3
L.S.D. (5%)	ns	5.3	7.9	8.8	6.3
Row Sp. (In.)	24	30	30	15	7.5
Rows/Plot	4	4	4	6	8
Reps	2	2	2	3	2



## PRELIMINARY TEST IVA, 2001

## YIELD RANK

Strain	Yield Rank	Belleville IL	Urbana IL	Butlerville IN	Manhattan KS	Lexington KY
HS93-4118 (IV)	4	21	1	11	19	10
LS93-0375 (SCN)	1	8	2	2	26	20
Macon (III)	8	20	3	5	2	11
A98-983008	18	26	18	26	7	12
HC97-1611	20	18	27	18	14	3
HC97-1691	2	3	21	25	3	6
HC97-1722	21	12	8	12	25	19
HC97-1867	11	19	22	19	21	1
HC97-3796	23	1	24	20	9	27
HC98-1276	7	10	15	6	12	2
HC98-1277	17	14	11	10	4	7
HC98-1290	25	23	26	24	22	18
HC98-1291	26	11	28	16	27	22
HC98-1328	15	24	9	1	18	4
HC98-1336	27	5	17	7	16	28
HC98-1343	5	4	23	15	13	5
HC98-1367	9	2	16	13	1	9
HC98-1721	28	28	14	28	6	12
LG97-9701	24	27	5	21	20	12
LS98-0223	11	22	13	7	24	25
LS98-0582	3	15	4	14	8	16
LS98-0656	13	25	7	27	15	26
LS98-1229	19	6	11	23	23	22
LS98-1386	15	9	13	3	28	15
LS98-2259	6	13	6	22	11	24
Md98-5165	14	7	20	7	17	17
Md98-5295	9	17	19	4	4	8
Md98-6295	22	16	25	16	10	21

## PRELIMINARY TEST IVA, 2001

## YIELD RANK

Strain	Queenstown MD	Kingdom City MO	Portageville MO	Mt. Orab OH	South Charleston OH
HS93-4118 (IV)	12	8	19	1	3
LS93-0375 (SCN)	3	11	2	10	13
Macon (III)	11	15	5	22	2
A98-983008	8	12	25	14	8
HC97-1611	12	16	16	24	5
HC97-1691	18	7	9	4	1
HC97-1722	26	19	20	10	20
HC97-1867	19	21	9	12	7
HC97-3796	20	6	24	21	16
HC98-1276	24	4	23	5	17
HC98-1277	27	13	7	17	19
HC98-1290	22	26	20	9	5
HC98-1291	17	27	27	3	10
HC98-1328	23	18	6	13	21
HC98-1336	25	28	28	26	28
HC98-1343	15	16	12	6	4
HC98-1367	6	24	17	15	9
HC98-1721	28	25	26	28	13
LG97-9701	10	22	8	23	24
LS98-0223	14	4	1	16	26
LS98-0582	1	1	14	18	11
LS98-0656	5	3	17	8	15
LS98-1229	8	10	22	19	27
LS98-1386	4	14	11	27	25
LS98-2259	2	2	3	20	18
Md98-5165	16	9	4	24	21
Md98-5295	7	20	13	2	23
Md98-6295	20	23	15	7	12

PRELIMINARY TEST IVA, 2001

MATURITY (date)

Strain	Mean 10 Tests	Belleville IL	Urbana IL	Butlerville IN	Manhattan KS	Lexington KY
HS93-4118 (IV)	9/26	9/26	9/25	9/29	9/27	9/29
LS93-0375 (SCN)	1.4	3	3	+1	0	2
Macon (III)	-0.9	1	-2	-4	1	-1
A98-983008	-2.1	-2	-5	-8	1	0
HC97-1611	1.9	3	4	+2	2	3
HC97-1691	1.4	3	3	-2	1	2
HC97-1722	0.1	1	-2	-5	-1	0
HC97-1867	0.2	1	1	-3	-1	0
HC97-3796	-0.4	2	-1	-2	2	-1
HC98-1276	1.4	4	2	+1	3	2
HC98-1277	0.9	3	2	+1	0	1
HC98-1290	2.3	5	5	+3	3	1
HC98-1291	1.9	3	3	+2	2	2
HC98-1328	3.1	5	5	+4	5	3
HC98-1336	-1.1	1	1	-3	-3	-4
HC98-1343	1.9	3	4	+3	5	2
HC98-1367	0.4	2	1	-4	1	1
HC98-1721	-0.5	-1	-2	-5	-1	2
LG97-9701	0.8	3	3	-3	4	2
LS98-0223	3.1	6	5	+2	6	3
LS98-0582	4.0	6	5	+2	8	4
LS98-0656	2.7	3	4	+3	5	3
LS98-1229	2.9	5	7	0	2	3
LS98-1386	3.1	4	5	+3	5	3
LS98-2259	2.2	4	4	+2	6	0
Md98-5165	4.2	8	4	+5	11	4
Md98-5295	4.2	6	6	+5	6	4
Md98-6295	1.1	-1	1	-2	4	1
Date Planted	5/10	5/9	5/1	5/10	5/9	5/18
Days to Mature	138	140	147	142	141	134

PRELIMINARY TEST IVA, 2001

MATURITY (date)

Strain	Queenstown MD	Kingdom City MO	Portageville MO	Mt. Orab OH	South Charleston OH
HS93-4118 (IV)	10/1	9/28	9/10	9/23	10/2
LS93-0375 (SCN)	1	0	0	4	1
Macon (III)	0	-3	-1	-1	-3
A98-983008	-4	-1	-8	-6	-4
HC97-1611	0	3	0	2	2
HC97-1691	0	1	0	1	3
HC97-1722	0	1	-2	1	1
HC97-1867	-1	0	-2	2	0
HC97-3796	-2	-1	-2	-2	0
HC98-1276	-2	2	-1	2	1
HC98-1277	-3	1	-1	3	2
HC98-1290	2	2	+3	2	3
HC98-1291	1	2	0	4	2
HC98-1328	2	2	+1	6	3
HC98-1336	-1	-2	-2	-1	-1
HC98-1343	1	-1	+1	3	2
HC98-1367	-2	-1	-2	1	1
HC98-1721	0	-3	-2	0	0
LG97-9701	-2	0	+1	0	-2
LS98-0223	3	4	+5	3	1
LS98-0582	5	5	+3	4	3
LS98-0656	3	3	+1	4	2
LS98-1229	2	3	+2	3	4
LS98-1386	1	5	+1	5	3
LS98-2259	2	3	+2	3	0
Md98-5165	4	5	+6	3	3
Md98-5295	4	4	+2	7	5
Md98-6295	3	4	-1	0	-2
Date Planted	6/12	5/3	5/10	5/4	5/2
Days to Mature	111	148	123	142	153

## PRELIMINARY TEST IVA, 2001

## LODGING (score)

Strain	Mean 10 Tests	Belleville IL	Urbana IL	Butlerville IN	Manhattan KS	Lexington KY
HS93-4118 (IV)	1.5	1.8	1.0	1.5	1.0	2.5
LS93-0375 (SCN)	1.4	2.0	1.5	1.0	1.0	2.3
Macon (III)	1.5	3.3	1.0	1.0	1.0	2.3
A98-983008	1.5	2.0	1.5	1.0	1.0	2.5
HC97-1611	2.5	3.0	2.3	3.3	2.0	2.8
HC97-1691	2.4	3.0	2.0	3.0	2.0	2.5
HC97-1722	1.9	3.3	2.0	1.5	1.0	2.5
HC97-1867	2.3	4.0	2.0	2.3	2.0	2.5
HC97-3796	1.9	3.0	1.5	1.5	2.0	2.5
HC98-1276	3.1	4.8	2.5	3.5	2.5	3.0
HC98-1277	2.9	3.5	2.0	3.8	2.5	3.0
HC98-1290	2.8	3.8	2.3	3.3	2.5	2.8
HC98-1291	2.7	3.8	2.0	3.0	2.5	2.5
HC98-1328	2.0	3.3	2.0	2.0	1.0	2.3
HC98-1336	2.0	4.0	1.8	2.0	1.5	2.3
HC98-1343	2.0	2.0	2.0	2.0	2.0	2.5
HC98-1367	2.2	4.0	2.0	1.8	1.0	2.5
HC98-1721	1.9	3.0	2.3	2.0	1.5	2.5
LG97-9701	2.2	4.0	2.3	1.5	2.5	2.5
LS98-0223	2.1	3.8	2.0	1.5	1.0	2.5
LS98-0582	2.1	3.0	2.0	2.0	1.0	2.5
LS98-0656	1.8	2.0	1.8	1.3	1.0	2.5
LS98-1229	2.4	4.0	2.5	2.5	1.5	2.5
LS98-1386	2.5	4.0	2.3	2.8	1.5	2.5
LS98-2259	2.1	3.3	1.5	2.5	1.5	2.3
Md98-5165	2.5	4.0	2.0	2.0	3.0	2.8
Md98-5295	2.8	4.5	2.3	3.3	2.5	3.0
Md98-6295	1.7	2.0	1.3	1.3	1.0	2.5

PRELIMINARY TEST IVA, 2601

LODGING (score)

Strain	Queenstown MD	Kingdom City MO	Portageville MO	Mt. Orab OH	South Charleston OH
HS93-4118 (IV)	1.3	1.0	1.0	1.8	1.8
LS93-0375 (SCN)	1.5	1.0	1.0	1.5	1.3
Macon (III)	1.3	1.0	1.3	1.0	1.5
A98-983008	1.5	1.0	1.0	1.7	1.8
HC97-1611	2.0	3.0	1.0	3.3	2.5
HC97-1691	1.8	2.0	1.8	2.8	2.8
HC97-1722	1.8	2.0	1.0	1.6	2.5
HC97-1867	1.5	2.0	1.5	2.7	2.8
HC97-3796	1.8	1.5	1.0	2.3	1.8
HC98-1276	2.3	2.5	2.5	3.5	4.0
HC98-1277	2.0	2.5	2.3	3.6	4.0
HC98-1290	2.3	3.0	1.3	3.2	3.3
HC98-1291	2.5	2.5	1.5	3.5	3.0
HC98-1328	1.5	2.0	1.3	3.0	2.0
HC98-1336	1.3	1.5	1.3	2.4	2.3
HC98-1343	1.8	2.0	1.3	2.3	2.3
HC98-1367	2.0	2.0	1.0	2.7	2.5
HC98-1721	1.5	1.0	1.3	1.2	3.0
LG97-9701	1.5	1.5	1.3	3.0	2.3
LS98-0223	1.8	2.0	1.0	2.4	3.0
LS98-0582	2.0	2.0	1.3	3.3	2.3
LS98-0656	1.5	1.5	1.0	3.0	2.8
LS98-1229	1.8	2.0	1.0	3.4	3.0
LS98-1386	2.0	2.0	1.0	3.4	3.0
LS98-2259	1.8	1.5	1.3	2.8	2.3
Md98-5165	1.5	2.0	2.5	3.5	2.0
Md98-5295	2.3	2.0	2.3	3.9	2.3
Md98-6295	1.3	1.5	1.3	2.3	2.5

## PRELIMINARY TEST IVA, 2001

## PLANT HEIGHT (inches)

Strain	Mean 10 Tests	Belleville IL	Urbana IL	Butlerville IN	Manhattan KS	Lexington KY
HS93-4118 (IV)	33	30	33	30	31	42
LS93-0375 (SCN)	35	42	36	31	35	40
Macon (III)	33	39	36	30	32	40
A98-983008	30	31	33	27	30	36
HC97-1611	42	47	44	36	40	47
HC97-1691	39	44	38	31	40	44
HC97-1722	36	43	41	31	37	44
HC97-1867	40	42	39	38	39	44
HC97-3796	41	49	40	35	43	46
HC98-1276	42	43	45	38	36	51
HC98-1277	41	47	46	34	35	48
HC98-1290	43	41	44	36	43	47
HC98-1291	44	43	44	38	42	50
HC98-1328	36	34	38	33	34	42
HC98-1336	39	43	41	37	38	43
HC98-1343	38	41	40	30	34	43
HC98-1367	36	42	36	33	35	42
HC98-1721	38	44	44	30	39	45
LG97-9701	37	42	43	32	38	45
LS98-0223	41	46	41	41	39	47
LS98-0582	39	37	41	34	40	46
LS98-0656	37	40	40	28	38	42
LS98-1229	38	37	43	30	35	46
LS98-1386	41	45	42	38	40	46
LS98-2259	38	42	37	35	39	45
Md98-5165	41	45	43	36	39	45
Md98-5295	39	45	38	34	40	44
Md98-6295	35	38	34	33	35	42

PRELIMINARY TEST IVA, 2001

PLANT HEIGHT (inches)

Strain	Queenstown MD	Kingdom City MO	Portageville MO	Mt. Orab OH	South Charleston OH
HS93-4118 (IV)	27	34	31	30	38
LS93-0375 (SCN)	30	35	35	29	40
Macon (III)	26	31	32	24	39
A98-983008	26	27	26	25	39
HC97-1611	34	46	42	35	47
HC97-1691	34	42	39	33	45
HC97-1722	30	37	31	27	43
HC97-1867	34	45	37	33	46
HC97-3796	33	43	38	32	48
HC98-1276	35	46	42	38	44
HC98-1277	34	41	42	33	52
HC98-1290	39	48	41	39	49
HC98-1291	38	50	42	39	56
HC98-1328	30	35	36	31	43
HC98-1336	31	44	35	35	42
HC98-1343	34	40	38	34	44
HC98-1367	33	33	34	33	42
HC98-1721	32	32	38	27	48
LG97-9701	30	39	37	28	41
LS98-0223	33	43	38	34	46
LS98-0582	33	41	37	38	46
LS98-0656	29	38	35	35	43
LS98-1229	32	38	39	35	46
LS98-1386	33	45	39	34	43
LS98-2259	32	35	37	33	43
Md98-5165	30	41	42	39	45
Md98-5295	33	42	39	35	42
Md98-6295	26	35	33	31	41



PRELIMINARY TEST IVA, 2001

SEED SIZE (g/100)

Strain	Mean 9 Tests	Belleville IL	Urbana IL	Butlerville IN	Manhattan KS	Lexington KY
HS93-4118 (IV)	14.9	18.7	12.2	14.7	16.0	
LS93-0375 (SCN)	15.7	15.9	15.2	15.1	16.6	
Macon (III)	15.7	14.9	14.7	15.4	18.6	
A98-983008	20.6	17.6	21.2	20.8	26.6	
HC97-1611	13.3	12.9	12.9	14.0	15.4	
HC97-1691	12.7	14.1	11.5	12.1	14.7	
HC97-1722	13.2	14.3	12.0	11.4	14.1	
HC97-1867	13.8	14.5	13.1	12.5	16.6	
HC97-3796	15.2	15.1	15.8	14.2	15.4	
HC98-1276	13.0	15.0	12.0	13.1	14.1	
HC98-1277	13.2	15.7	13.0	13.0	14.1	
HC98-1290	14.7	16.8	13.8	14.5	14.4	
HC98-1291	14.1	13.5	12.8	14.7	15.3	
HC98-1328	14.8	15.7	14.8	14.9	17.7	
HC98-1336	11.8	12.3	11.1	12.1	12.2	
HC98-1343	13.7	14.2	12.2	13.5	17.6	
HC98-1367	14.6	15.5	13.0	13.4	18.1	
HC98-1721	14.2	14.7	12.8	12.7	16.0	
LG97-9701	15.5	15.9	15.0	14.5	17.2	
LS98-0223	12.8	13.1	11.7	11.1	14.8	
LS98-0582	14.3	14.2	13.5	12.9	17.8	
LS98-0656	14.5	15.0	13.6	13.5	15.8	
LS98-1229	16.1	15.5	16.5	16.0	17.0	
LS98-1386	16.3	15.1	16.8	17.8	16.7	
LS98-2259	12.6	14.1	12.1	11.3	15.0	
Md98-5165	16.2	16.3	14.6	15.7	17.8	
Md98-5295	13.9	14.5	13.5	13.1	15.8	
Md98-6295	14.7	14.8	12.6	14.2	18.2	

## PRELIMINARY TEST IVA, 2001

## SEED SIZE (g/100)

Strain	Queenstown MD	Kingdom City MO	Portageville MO	Mt. Orab OH	South Charleston OH
HS93-4118 (IV)	13.2	16.0	13.5	13.8	16.0
LS93-0375 (SCN)	14.1	19.0	14.4	14.7	16.2
Macon (III)	14.7	17.0	14.9	14.5	16.9
A98-983008	22.0	25.0	11.3	19.6	21.6
HC97-1611	12.0	15.0	11.0	12.3	14.4
HC97-1691	11.1	15.0	10.8	11.7	13.3
HC97-1722	11.9	15.0	12.7	12.7	15.0
HC97-1867	12.2	17.0	11.8	12.8	13.8
HC97-3796	13.6	18.0	14.7	13.5	16.5
HC98-1276	11.4	15.0	11.0	11.7	13.3
HC98-1277	12.1	15.0	9.8	12.7	13.7
HC98-1290	13.8	17.0	12.2	14.2	15.7
HC98-1291	12.9	17.0	13.0	13.7	14.3
HC98-1328	12.5	16.0	11.3	14.6	15.6
HC98-1336	10.4	14.0	10.5	11.0	12.2
HC98-1343	12.6	15.0	11.3	12.5	14.0
HC98-1367	13.8	17.0	13.3	13.3	13.6
HC98-1721	13.1	16.0	13.3	12.2	16.6
LG97-9701	14.6	18.0	14.7	14.4	15.5
LS98-0223	11.0	15.0	14.0	11.5	13.2
LS98-0582	13.1	16.0	13.5	13.7	14.0
LS98-0656	12.8	17.0	14.9	13.2	14.4
LS98-1229	14.5	18.0	14.6	15.7	17.3
LS98-1386	15.1	19.0	14.3	15.4	16.9
LS98-2259	10.6	15.0	11.2	11.2	13.2
Md98-5165	15.4	19.0	13.7	15.4	18.3
Md98-5295	12.2	18.0	10.4	13.4	14.4
Md98-6295	13.1	17.0	13.6	13.6	15.0

PRELIMINARY TEST IVA, 2001

SEED QUALITY (score)

Strain	Mean 9 Tests	Belleville IL	Urbana IL	Butlerville IN	Manhattan KS	Lexington KY
HS93-4118 (IV)	1.9	4.0	2.0	1.0	3.0	
LS93-0375 (SCN)	1.7	2.0	2.5	1.0	2.0	
Macon (III)	1.6	2.0	2.0	1.0	2.0	
A98-983008	2.9	5.0	2.0	2.5	5.0	
HC97-1611	1.9	2.0	2.0	2.0	2.0	
HC97-1691	1.6	2.0	2.0	1.0	2.0	
HC97-1722	1.8	2.0	2.5	1.0	2.0	
HC97-1867	1.8	2.0	2.5	1.0	2.0	
HC97-3796	1.7	2.0	2.5	1.0	2.0	
HC98-1276	1.7	2.0	2.0	1.0	2.0	
HC98-1277	1.6	1.0	2.0	1.0	2.0	
HC98-1290	2.1	3.0	3.0	1.0	2.0	
HC98-1291	1.9	2.0	3.0	1.0	2.0	
HC98-1328	1.7	2.0	3.0	1.0	2.0	
HC98-1336	1.7	2.0	2.5	1.0	2.0	
HC98-1343	1.7	2.0	2.5	1.0	2.0	
HC98-1367	1.8	3.0	2.5	1.0	2.0	
HC98-1721	1.8	3.0	2.0	1.0	2.0	
LG97-9701	1.8	3.0	2.0	1.0	2.0	
LS98-0223	1.7	2.0	2.0	1.0	2.0	
LS98-0582	1.6	2.0	1.5	1.0	2.0	
LS98-0656	1.6	2.0	2.0	1.0	2.0	
LS98-1229	1.8	2.0	2.5	1.0	2.0	
LS98-1386	1.7	2.0	2.5	1.0	2.0	
LS98-2259	1.7	1.0	2.5	1.0	2.0	
Md98-5165	1.9	2.0	2.5	1.0	3.0	
Md98-5295	1.9	3.0	2.5	1.0	3.0	
Md98-6295	1.8	2.0	2.0	1.0	2.0	

## PRELIMINARY TEST IVA, 2001

## SEED QUALITY (score)

Strain	Queenstown MD	Kingdom City MO	Portageville MO	Mt. Orab OH	South Charleston OH
HS93-4118 (IV)	1.0	1.0	3.0	1.0	1.5
LS93-0375 (SCN)	1.0	2.0	3.0	1.0	1.0
Macon (III)	1.0	1.0	3.0	1.0	1.5
A98-983008	2.0	3.0	3.0	1.0	3.0
HC97-1611	1.0	2.0	3.0	1.0	2.0
HC97-1691	1.0	1.0	3.0	1.0	1.0
HC97-1722	1.0	2.0	3.0	1.0	2.0
HC97-1867	1.0	2.0	3.0	1.0	1.5
HC97-3796	1.0	1.0	3.0	1.0	1.5
HC98-1276	1.0	2.0	3.0	1.0	1.5
HC98-1277	1.0	1.0	3.0	1.0	2.0
HC98-1290	1.0	3.0	3.0	1.0	2.0
HC98-1291	1.0	2.0	3.0	1.0	2.0
HC98-1328	1.0	1.0	3.0	1.0	1.5
HC98-1336	1.0	2.0	3.0	1.0	1.0
HC98-1343	1.0	1.0	3.0	1.0	1.5
HC98-1367	1.0	1.0	3.0	1.0	1.5
HC98-1721	1.0	2.0	3.0	1.0	1.5
LG97-9701	1.3	1.0	3.0	1.0	2.0
LS98-0223	1.0	2.0	3.0	1.0	1.5
LS98-0582	1.0	1.0	3.0	1.0	2.0
LS98-0656	1.0	1.0	3.0	1.0	1.5
LS98-1229	1.0	2.0	3.0	1.0	1.5
LS98-1386	1.0	2.0	3.0	1.0	1.0
LS98-2259	1.0	2.0	3.0	1.0	1.5
Md98-5165	1.0	2.0	3.0	1.0	1.5
Md98-5295	1.0	1.0	3.0	1.0	2.0
Md98-6295	1.0	2.0	3.0	1.0	2.0

PRELIMINARY TEST IVA, 2001

GREEN STEM (score)

Strain	Mean 2 Tests	Belleville IL	Urbana IL	Butlerville IN	Manhattan KS	Lexington KY
HS93-4118 (IV)	1.3					
LS93-0375 (SCN)	1.8					
Macon (III)	1.5					
A98-983008	1.5					
HC97-1611	2.0					
HC97-1691	1.3					
HC97-1722	1.8					
HC97-1867	2.0					
HC97-3796	1.3					
HC98-1276	1.3					
HC98-1277	2.0					
HC98-1290	1.5					
HC98-1291	1.5					
HC98-1328	1.5					
HC98-1336	1.5					
HC98-1343	1.8					
HC98-1367	1.8					
HC98-1721	1.5					
LG97-9701	1.8					
LS98-0223	1.8					
LS98-0582	1.8					
LS98-0656	1.5					
LS98-1229	1.3					
LS98-1386	1.5					
LS98-2259	1.8					
Md98-5165	1.5					
Md98-5295	1.5					
Md98-6295	1.8					

PRELIMINARY TEST IVA, 2001

GREEN STEM (score)

Strain	Queenstown MD	Kingdom City MO	Portageville MO	Mt. Orab OH	South Charleston OH
HS93-4118 (IV)		1.5			1.0
LS93-0375 (SCN)		2.5			1.0
Macon (III)		1.5			1.5
A98-983008		2.0			1.0
HC97-1611		1.5			2.5
HC97-1691		1.0			1.5
HC97-1722		1.0			2.5
HC97-1867		2.0			2.0
HC97-3796		1.0			1.5
HC98-1276		1.0			1.5
HC98-1277		1.5			2.5
HC98-1290		1.5			1.5
HC98-1291		1.5			1.5
HC98-1328		2.0			1.0
HC98-1336		1.0			2.0
HC98-1343		2.5			1.0
HC98-1367		1.5			2.0
HC98-1721		1.0			2.0
LG97-9701		2.0			1.5
LS98-0223		2.0			1.5
LS98-0582		2.0			1.5
LS98-0656		1.5			1.5
LS98-1229		1.5			1.0
LS98-1386		2.0			1.0
LS98-2259		2.0			1.5
Md98-5165		2.0			1.0
Md98-5295		2.0			1.0
Md98-6295		2.0			1.5

PRELIMINARY TEST IVA, 2001

PROTEIN (%)

Strain	Mean 5 Tests	Urbana IL	Butlerville IN	Lexington KY	Kingdom City MO	Mt. Orab OH
HS93-4118 (IV)	38.8	39.3	39.6	37.4	39.5	38.3
LS93-0375 (SCN)	41.1	42.4	40.7	39.5	41.0	42.1
Macon (III)	39.1	40.3	39.1	37.3	38.6	40.1
A98-983008	39.2	39.4	38.6	37.8	40.9	39.3
HC97-1611	40.4	43.6	40.3	37.9	41.3	39.0
HC97-1691	42.2	43.5	41.9	39.7	43.5	42.3
HC97-1722	40.5	42.0	39.8	38.7	42.9	39.1
HC97-1867	40.6	43.4	41.4	37.9	40.4	39.8
HC97-3796	39.2	41.6	39.3	37.7	38.9	38.7
HC98-1276	40.2	41.4	40.9	39.0	39.0	40.6
HC98-1277	39.8	41.3	41.4	37.9	38.2	40.0
HC98-1290	41.9	44.8	42.3	39.9	42.5	40.2
HC98-1291	40.9	43.5	42.5	38.4	39.9	40.3
HC98-1328	41.7	43.0	42.4	39.7	41.8	41.4
HC98-1336	41.6	43.4	42.5	38.1	42.8	41.3
HC98-1343	42.0	44.3	42.4	39.7	42.8	40.7
HC98-1367	42.5	44.2	42.2	40.9	42.5	42.9
HC98-1721	39.1	40.5	41.2	36.9	37.4	39.3
LG97-9701	39.1	41.1	38.2	37.3	39.9	39.1
LS98-0223	39.9	41.2	39.6	38.3	41.1	39.0
LS98-0582	40.7	41.8	40.4	39.6	40.2	41.6
LS98-0656	40.6	41.6	41.2	39.2	40.9	40.3
LS98-1229	41.9	44.4	42.6	39.8	41.8	41.1
LS98-1386	40.1	41.9	41.4	37.9	39.9	39.2
LS98-2259	39.6	41.3	40.4	37.3	40.1	39.1
Md98-5165	41.8	43.9	42.4	39.5	41.5	41.5
Md98-5295	41.2	43.4	41.9	39.4	41.9	39.2
Md98-6295	39.5	41.0	39.7	38.1	39.7	39.1

PRELIMINARY TEST IVA, 2001

OIL (%)

Strain	Mean 5 Tests	Urbana IL	Butlerville IN	Lexington KY	Kingdom City MO	Mt. Orab OH
HS93-4118 (IV)	21.3	21.0	21.3	21.2	21.6	21.2
LS93-0375 (SCN)	20.7	20.2	20.7	20.7	21.7	20.1
Macon (III)	22.1	22.2	21.8	21.9	23.2	21.3
A98-983008	21.5	22.2	21.6	21.3	21.2	21.0
HC97-1611	21.6	20.1	21.4	22.0	22.2	22.4
HC97-1691	21.6	21.2	21.5	21.9	22.1	21.6
HC97-1722	21.2	20.7	21.4	21.6	20.6	21.6
HC97-1867	21.8	20.9	21.0	22.7	22.0	22.7
HC97-3796	21.7	21.3	21.6	21.9	22.1	21.7
HC98-1276	21.9	21.5	21.9	21.7	22.6	21.5
HC98-1277	21.9	21.8	21.3	21.9	22.7	21.9
HC98-1290	21.1	19.6	21.3	21.2	20.9	22.4
HC98-1291	21.7	20.5	21.0	22.4	22.3	22.2
HC98-1328	20.9	20.4	20.8	21.4	20.3	21.7
HC98-1336	20.5	19.7	20.6	21.4	20.3	20.6
HC98-1343	20.3	19.3	20.1	20.9	20.1	21.1
HC98-1367	20.1	19.3	20.6	20.7	20.3	19.8
HC98-1721	21.6	21.6	20.6	21.8	22.4	21.4
LG97-9701	21.5	20.4	22.2	21.6	21.4	21.7
LS98-0223	20.3	20.0	20.3	20.4	20.0	20.9
LS98-0582	20.3	20.0	20.6	20.4	20.3	20.3
LS98-0656	20.6	20.4	20.6	20.5	20.2	21.1
LS98-1229	20.2	19.2	20.0	20.5	20.6	20.9
LS98-1386	21.3	20.5	21.0	21.9	21.3	22.0
LS98-2259	20.6	20.3	20.4	20.9	20.3	21.1
Md98-5165	20.5	20.0	20.0	20.6	20.9	20.8
Md98-5295	21.0	20.2	20.8	21.4	20.2	22.5
Md98-6295	21.4	20.9	21.8	21.4	21.0	21.9



**Preliminary Test.IVB 2001**

	Strain	Parentage	Generation Composited	Unique Traits
1.	HS93-4118 (IV)	IA2007 x Dairyland DSR 304	F5	Rps1c
2.	LS93-0375 (SCN)	Asgrow A3935 x Pioneer P9402	F6	SCN
3.	Macon (III)	Sherman x Resnik	F5	
4.	Strong (dt1)	Sprite 87 x HC85-6577	F5	dt1
5.	C2013	C1891 x IA2021	F5	fan
6.	C2014	C1891 x IA2021	F5	fan
7.	HC97-142R	Hobbit 87 x HC85-6577	F4	dt1
8.	HC97-578	HC85-6577 x Charleston BC	F4	dt1
9.	HC97-580	HC85-6577 x Charleston BC	F4	dt1
10.	HC97-964	Charleston BC x Stressland	F4	dt1
11.	HC97-4182	HC85-6577 x Charleston BC	F4	dt1
12.	HC97-4189	HC85-6577 x Charleston BC	F4	dt1
13.	HC98-251	HC89-314 x Charleston BC	F4	dt1
14.	HC98-312	HC89-1640 x Charleston BC	F4	dt1
15.	HC98-691	Hutcheson x Sprite 87	F4	dt1
16.	HC98-1082	Sprite 87 x HC85-6577	F4	dt1
17.	HC98-1980	CAB 47 x Stressland	F4	dt1
18.	HC98-4449	HC85-606 x HC78-676 BC	F4	dt1
19.	K1516	Asgrow A4715 x Hamilton	F5	
20.	K1517	CX411 x Stressland	F5	
21.	K1518	Asgrow A4715 x Hamilton	F5	
22.	K1519	CX411 x Stressland	F5	
23.	K1520	Hamilton x Douglas	F5	
24.	K1521	CX411 x Stressland	F5	
25.	K1522	Pioneer P9451 x DP3478	F5	
26.	K1523	Macon x HS92-2683	F5	
27.	LN97-18394	K1262 x Cisne	F5	
28.	LN97-26536	Yale x Macon	F5	

**PRELIMINARY TEST IVB, 2001**  
**DESCRIPTIVE AND DISEASE DATA**

Strain	Descriptive Code	Mottle Score Eldorado	Stand Belle-ville %	PB Lafayette		PS Lafayette	P&SB
				Race 4	Race 7	a %	n %
HS93-4118 (IV)	WGBDYBII	1.0	82.7	S	R	5	19
LS93-0375 (SCN)	PTBDYBII	1.0	50.0	S	R	32	52
Macon (III)	WTBIYBII	1.0	71.2	S	S	26	14
Strong (dt1)	WTBIYBID	1.0	60.3	S	R	12	16
C2013	WTBSYBII	2.0	94.2	R	R	0	50
C2014	PTBDYBII	1.0	84.6	R	R	10	32
HC97-142R	PTTDYBID	1.0	65.4	R	R	2	14
HC97-578	PTTDYBID	1.0	73.1	S	S	12	18
HC97-580	PTTIYBID	1.0	84.6	R	R	0	30
HC97-964	PTTDYBID	1.0	100.0	R	R	0	20
HC97-4182	PTTIYBID	1.0	83.3	S	S	12	6
HC97-4189	PTTDYBID	1.0	65.4	S	S	14	6
HC98-251	WTTIYBID	1.0	75.6	R	R	0	18
HC98-312	PTTSYBID	1.0	79.5	R	R	4	16
HC98-691	WTTIYBrD	1.0	56.4	S	S	10	14
HC98-1082	WTTDYBID	1.0	73.1	R	R	22	34
HC98-1980	PTBSYBID	1.0	64.1	R	S	22	30
HC98-4449	PTBDYBrD	1.0	79.5	R	R	8	26
K1516	WTBDYBI+BrI	1.0	46.2	S	S	14	28
K1517	PTBDYBII	1.0	61.5	R	S	14	42
K1518	WGBDYBfI	1.0	46.2	S	H	14	42
K1519	PTBDYBII	1.0	92.3	S	H	14	42
K1520	WGBSYBfI	1.0	57.7	S	S	26	28
K1521	WTTDYBII	1.0	59.6	R	S	18	50
K1522	WTBIYBrI	1.0	67.3	H	S	12	54
K1523	WTBDYBII	1.0	53.8	S	S	14	58
LN97-18394	PTBDYBII	1.0	76.9	H	R	10	56
LN97-26536	WGBDYBfI	1.0	65.4	S	R	18	52

## PRELIMINARY TEST IVB, 2001

## REGIONAL SUMMARY

No. of Tests Strain	Yield 8 bu/a	Rank 8 No.	Maturity 10 Date	Lodging 10 Score	Plant Height 10 In.	Seed Size 9 g/100	Seed Quality 9 Score	Green Stem 2 Score	Composition	
									Protein 5 %	Oil 5 %
HS93-4118 (IV)	61.8	1	9/25	1.5	33	14.5	1.8	2.0	38.6	21.2
LS93-0375 (SCN)	59.4	5	2.0	1.5	35	15.6	1.7	1.8	41.1	20.5
Macon (III)	59.5	4	-0.7	1.4	33	15.9	1.7	1.0	39.5	21.6
Strong (dt1)	51.6	20	-0.3	1.2	21	17.1	1.8	1.5	40.2	21.5
C2013	56.5	12	3.4	3.0	40	15.4	1.8	1.5	38.8	21.5
C2014	55.0	15	-2.4	2.1	39	13.6	1.8	1.5	39.5	21.7
HC97-142R	47.9	28	-2.3	1.0	17	16.6	1.9	1.0	39.1	22.7
HC97-578	51.3	21	-1.6	1.2	19	17.4	2.2	2.0	41.1	20.4
HC97-580	50.3	23	0.1	1.4	20	16.4	1.9	2.8	39.9	21.2
HC97-964	48.4	27	-2.2	1.2	20	14.6	1.9	1.5	41.3	21.0
HC97-4182	53.2	18	0.0	1.3	19	17.2	2.4	2.0	40.7	20.8
HC97-4189	48.9	25	-0.1	1.3	19	16.9	2.1	2.0	40.1	21.2
HC98-251	50.8	22	-2.1	1.3	20	15.4	1.3	1.5	39.2	21.7
HC98-312	53.0	19	-1.0	1.6	18	16.5	1.4	1.8	38.7	22.1
HC98-691	54.7	16	0.3	1.0	18	15.9	1.7	1.0	40.6	21.9
HC98-1082	48.7	26	-1.1	1.1	16	15.2	2.0	1.3	40.5	21.0
HC98-1980	49.9	24	-3.7	1.1	19	14.7	1.9	1.0	41.5	20.8
HC98-4449	56.2	13	0.8	1.3	20	15.9	1.9	1.5	40.4	20.9
K1516	57.2	11	0.5	2.1	35	15.4	1.8	1.8	40.4	21.6
K1517	59.7	3	2.6	1.5	35	13.9	1.8	1.5	40.4	21.2
K1518	57.9	9	1.8	1.8	35	15.1	1.9	2.0	39.7	21.5
K1519	61.5	2	4.8	2.2	39	14.3	1.8	2.0	40.3	20.9
K1520	54.0	17	2.6	1.8	37	15.2	1.7	2.0	39.7	21.5
K1521	57.5	10	0.6	1.7	34	13.9	1.8	1.0	40.7	20.9
K1522	59.3	6	0.2	2.0	35	15.1	2.0	1.0	40.7	20.8
K1523	58.0	8	3.2	2.3	39	16.0	1.6	2.0	40.9	21.2
LN97-18394	58.7	7	3.3	2.4	34	18.6	1.9	1.5	40.0	21.2
LN97-26536	55.7	14	0.6	1.4	34	17.2	2.2	1.3	39.5	22.1

137.8 Days After Planting

PRELIMINARY TEST IVB, 2001

YIELD (bu/a)

Strain	Mean 8 Tests	Belleville IL	Urbana IL	Butlerville* IN	Manhattan* KS	Lexington KY
HS93-4118 (IV)	61.8	68.3	49.7	49.5	58.0	69.1
LS93-0375 (SCN)	59.4	59.8	49.4	46.0	45.4	68.9
Macon (III)	59.5	62.0	62.0	42.7	53.9	67.7
Strong (dt1)	51.6	62.9	45.4	32.4	21.7	66.1
C2013	56.5	65.4	48.3	43.9	58.7	64.1
C2014	55.0	60.5	53.3	38.9	58.4	63.8
HC97-142R	47.9	61.9	48.3	4.1	29.8	62.5
HC97-578	51.3	59.1	46.6	17.2	27.1	66.0
HC97-580	50.3	69.8	41.1	21.1	22.4	67.3
HC97-964	48.4	64.5	39.4	24.5	22.7	64.8
HC97-4182	53.2	62.4	42.2	31.5	22.4	75.1
HC97-4189	48.9	60.5	40.0	19.0	32.1	64.5
HC98-251	50.8	59.7	46.5	29.3	56.1	64.7
HC98-312	53.0	62.5	47.4	20.5	49.8	66.2
HC98-691	54.7	63.9	49.9	17.1	15.2	63.9
HC98-1082	48.7	66.8	54.7	13.0	20.1	67.3
HC98-1980	49.9	61.8	44.7	13.8	29.4	69.2
HC98-4449	56.2	60.2	53.8	32.1	29.5	68.2
K1516	57.2	57.9	46.5	42.3	47.0	59.1
K1517	59.7	62.9	59.5	45.5	46.0	66.7
K1518	57.9	58.7	49.5	38.0	52.3	66.7
K1519	61.5	72.3	52.6	51.0	52.3	66.9
K1520	54.0	56.8	45.4	38.8	57.7	61.1
K1521	57.5	65.8	52.3	49.3	44.9	67.5
K1522	59.3	63.3	48.9	41.8	36.4	66.5
K1523	58.0	61.5	54.4	40.7	50.5	64.0
LN97-18394	58.7	65.8	44.3	51.7	51.4	66.9
LN97-26536	55.7	58.4	46.0	47.8	39.1	66.8
C.V. (%)		9.1	13.7	18.6	22.1	5.0
L.S.D. (5%)		11.8	13.7	12.8	18.3	5.6
Row Sp. (In.)		30	30	26	30	15
Rows/Plot		4	4	4	4	6
Reps		2	2	2	2	2

\* Data not included in mean.

## PRELIMINARY TEST IVB, 2001

## YIELD (bu/a)

Strain	Queenstown MD	Kingdom City MO	Portageville MO	Mt. Orab OH	South Charleston OH
HS93-4118 (IV)	52.3	48.1	52.7	76.4	77.5
LS93-0375 (SCN)	49.1	59.2	50.4	68.2	70.4
Macon (III)	48.4	55.7	48.9	59.5	71.7
Strong (dt1)	50.0	24.2	36.7	57.6	69.8
C2013	48.4	47.0	46.2	66.3	66.3
C2014	44.6	40.5	45.3	58.6	73.5
HC97-142R	40.1	13.2	34.1	51.8	71.1
HC97-578	47.8	28.2	36.9	55.6	70.3
HC97-580	45.0	20.3	28.0	58.2	72.8
HC97-964	38.2	32.6	28.9	55.4	63.6
HC97-4182	39.1	22.7	43.1	61.6	79.7
HC97-4189	48.2	11.7	36.1	53.9	76.3
HC98-251	49.7	28.0	29.8	57.0	71.0
HC98-312	44.5	38.9	37.9	56.9	69.3
HC98-691	49.5	38.0	38.4	64.4	69.4
HC98-1082	45.3	17.2	28.0	42.7	68.0
HC98-1980	47.3	29.3	24.4	50.2	72.0
HC98-4449	49.2	28.6	46.8	66.2	76.3
K1516	49.0	57.5	59.6	63.6	64.2
K1517	47.3	54.1	43.3	74.4	69.1
K1518	50.3	57.5	48.1	61.4	70.9
K1519	44.3	53.0	54.7	79.0	69.0
K1520	50.0	46.9	41.2	59.6	70.6
K1521	54.2	46.6	35.9	64.2	73.3
K1522	54.7	60.2	53.5	57.4	69.5
K1523	53.1	55.9	43.3	61.8	70.2
LN97-18394	52.2	56.2	37.7	68.9	77.4
LN97-26536	52.8	51.0	49.1	56.3	65.0
C.V. (%)	10.2	7.3	12.1	9.0	4.7
L.S.D. (5%)	ns	5.0	8.6	8.8	6.9
Row Sp. (In.)	24	30	30	15	7.5
Rows/Plot	4	4	4	6	8
Reps	2	2	2	3	2

PRELIMINARY TEST IVB, 2001

YIELD RANK

Strain	Yield Rank	Belleville IL	Urbana IL	Butlerville IN	Manhattan KS	Lexington KY
HS93-4118 (IV)	1	3	10	3	3	3
LS93-0375 (SCN)	5	22	12	6	14	4
Macon (III)	4	15	1	9	6	6
Strong (dt1)	20	11	21	16	26	17
C2013	12	7	15	8	1	22
C2014	15	19	6	13	2	25
HC97-142R	28	16	15	28	19	26
HC97-578	21	24	17	24	22	18
HC97-580	23	2	26	21	24	8
HC97-964	27	8	28	20	23	19
HC97-4182	18	14	25	18	24	1
HC97-4189	25	19	27	23	18	21
HC98-251	22	23	18	19	5	20
HC98-312	19	13	16	22	11	16
HC98-691	16	9	9	25	28	24
HC98-1082	26	4	3	27	27	8
HC98-1980	24	17	23	26	21	2
HC98-4449	13	21	5	17	20	5
K1516	11	27	19	10	12	28
K1517	3	12	2	7	13	13
K1518	9	25	11	15	7	13
K1519	2	1	7	2	7	10
K1520	17	28	22	14	4	27
K1521	10	5	8	4	15	7
K1522	6	10	13	11	17	15
K1523	8	18	4	12	10	23
LN97-18394	7	6	24	1	9	10
LN97-26536	14	26	20	5	16	12

## PRELIMINARY TEST IVB, 2001

## YIELD RANK

Strain	Queenstown MD	Kingdom City MO	Portageville MO	Mt. Orab OH	South Charleston OH
HS93-4118 (IV)	5	11	4	2	2
LS93-0375 (SCN)	13	2	5	5	15
Macon (III)	15	7	7	15	10
Strong (dt1)	8	23	20	18	18
C2013	15	12	10	6	25
C2014	23	15	11	16	6
HC97-142R	26	27	23	26	11
HC97-578	18	21	19	23	16
HC97-580	22	25	26	17	8
HC97-964	28	18	25	24	28
HC97-4182	27	24	14	12	1
HC97-4189	17	28	21	25	4
HC98-251	10	22	24	20	12
HC98-312	24	16	17	21	21
HC98-691	11	17	16	8	20
HC98-1082	21	26	26	28	24
HC98-1980	19	19	28	27	9
HC98-4449	12	20	9	7	5
K1516	14	3	1	10	27
K1517	19	8	12	3	22
K1518	7	3	8	13	13
K1519	25	9	2	1	23
K1520	8	13	15	14	14
K1521	2	14	22	9	7
K1522	1	1	3	19	19
K1523	3	6	12	11	17
LN97-18394	6	5	18	4	3
LN97-26536	4	10	6	22	26

## PRELIMINARY TEST IVB, 2001

## MATURITY (date)

Strain	Mean 10 Tests	Belleville IL	Urbana IL	Butlerville IN	Manhattan KS	Lexington KY
HS93-4118 (IV)	9/25	9/24	9/28	9/28	9/28	9/28
LS93-0375 (SCN)	2.0	3	1	+2	1	4
Macon (III)	-0.7	0	-2	-4	0	0
Strong (dt1)	-0.3	1	-3	-4	3	-1
C2013	3.4	7	1	+6	5	4
C2014	-2.4	-2	-11	-5	-6	0
HC97-142R	-2.3	1	-12	-12	2	1
HC97-578	-1.6	2	-10	-8	4	-4
HC97-580	0.1	2	-3	-4	5	3
HC97-964	-2.2	2	-9	-6	-1	-2
HC97-4182	0.0	1	-1	-8	4	4
HC97-4189	-0.1	3	-2	-9	4	0
HC98-251	-2.1	-1	-8	-9	3	-2
HC98-312	-1.0	1	-8	-4	4	-3
HC98-691	0.3	3	-2	-5	3	2
HC98-1082	-1.1	2	-5	-8	-1	2
HC98-1980	-3.7	-3	-14	-11	3	-3
HC98-4449	0.8	4	-1	-5	4	2
K1516	0.5	2	-3	-3	4	-1
K1517	2.6	6	2	+2	2	5
K1518	1.8	3	0	+1	7	2
K1519	4.8	8	6	+5	7	5
K1520	2.6	4	0	-1	8	5
K1521	0.6	2	3	-2	0	1
K1522	0.2	1	-1	+1	-1	3
K1523	3.2	5	0	+6	6	4
LN97-18394	3.3	7	1	+5	4	1
LN97-26536	0.6	-1	-1	0	3	1
Date Planted	5/10	5/9	5/1	5/10	5/9	5/18
Days to Mature	138	138	150	141	142	133



PRELIMINARY TEST IVB, 2001

MATURITY (date)

Strain	Queenstown MD	Kingdom City MO	Portageville MO	Mt. Orab OH	South Charleston OH
HS93-4118 (IV)	10/1	9/27	9/9	9/23	10/1
LS93-0375 (SCN)	3	1	+1	4	3
Macon (III)	0	-2	-2	-1	-2
Strong (dt1)	0	-3	+1	-2	2
C2013	5	5	+5	3	4
C2014	-1	-3	-6	-2	1
HC97-142R	-3	-3	-2	-8	0
HC97-578	2	-3	0	-7	1
HC97-580	0	-3	+4	-5	2
HC97-964	-3	-4	-4	-6	2
HC97-4182	0	-3	+4	-6	1
HC97-4189	1	-3	-3	-5	1
HC98-251	-3	-3	-5	-4	-3
HC98-312	-2	-3	+2	-1	2
HC98-691	2	-3	+1	-3	1
HC98-1082	-1	-3	-7	-6	1
HC98-1980	-3	-4	+3	-9	-4
HC98-4449	3	-2	+3	-4	2
K1516	3	3	+1	0	-3
K1517	2	5	0	1	3
K1518	2	1	+3	2	1
K1519	5	6	+7	6	5
K1520	3	6	+2	-1	1
K1521	0	-3	0	1	2
K1522	1	-3	+1	1	1
K1523	6	4	+2	4	3
LN97-18394	6	5	+2	4	5
LN97-26536	1	0	-1	1	1
Date Planted	6/12	5/3	5/10	5/4	5/2
Days to Mature	111	147	122	142	152

PRELIMINARY TEST IVB, 2001

LODGING (score)

Strain	Mean 10 Tests	Belleville IL	Urbana IL	Butlerville IN	Manhattan KS	Lexington KY
HS93-4118 (IV)	1.5	1.5	1.3	1.8	1.0	2.5
LS93-0375 (SCN)	1.5	2.8	1.5	1.0	1.0	2.0
Macon (III)	1.4	1.8	1.8	1.0	1.0	2.0
Strong (dt1)	1.2	1.0	1.0	1.0	1.0	1.5
C2013	3.0	4.5	2.3	3.5	3.0	3.0
C2014	2.1	3.3	2.3	1.5	1.0	2.5
HC97-142R	1.0	1.0	1.0	1.0	1.0	1.0
HC97-578	1.2	1.0	1.0	1.0	1.0	1.5
HC97-580	1.4	1.0	1.0	1.0	1.0	2.0
HC97-964	1.2	1.0	1.0	1.0	1.0	1.3
HC97-4182	1.3	1.0	1.0	1.0	1.0	1.5
HC97-4189	1.3	1.0	1.0	1.0	1.0	1.8
HC98-251	1.3	1.0	1.0	1.0	1.0	1.5
HC98-312	1.6	1.5	1.5	1.0	1.0	2.8
HC98-691	1.0	1.0	1.0	1.0	1.0	1.0
HC98-1082	1.1	1.0	1.0	1.0	1.0	1.0
HC98-1980	1.1	1.0	1.0	1.0	1.0	1.0
HC98-4449	1.3	1.0	1.0	1.0	1.0	1.5
K1516	2.1	2.3	2.0	1.3	2.0	2.5
K1517	1.5	2.0	1.5	1.0	1.0	2.0
K1518	1.8	2.8	1.5	1.0	1.0	2.5
K1519	2.2	2.8	2.0	2.3	1.5	2.5
K1520	1.8	1.5	1.8	1.0	2.0	2.5
K1521	1.7	2.8	1.8	1.3	1.0	2.3
K1522	2.0	3.3	1.8	2.0	1.0	2.5
K1523	2.3	2.3	2.0	3.3	1.5	2.5
LN97-18394	2.4	4.0	1.5	3.3	1.5	2.3
LN97-26536	1.4	1.5	1.3	1.0	1.0	2.3

PRELIMINARY TEST IVB, 2001

LODGING (score)

Strain	Queenstown MD	Kingdom City MO	Portageville MO	Mt. Orab OH	South Charleston OH
HS93-4118 (IV)	1.3	1.0	1.0	1.8	1.8
LS93-0375 (SCN)	1.3	1.5	1.0	1.5	1.5
Macon (III)	1.5	1.0	1.0	1.0	2.0
Strong (dt1)	2.0	1.0	1.0	1.0	1.8
C2013	2.8	2.0	1.8	3.4	3.5
C2014	2.8	1.0	1.3	2.4	2.5
HC97-142R	1.3	1.0	1.0	1.0	1.0
HC97-578	1.8	1.0	1.0	0.9	1.5
HC97-580	2.5	1.0	1.0	1.1	2.0
HC97-964	1.5	1.0	1.0	1.0	1.8
HC97-4182	2.0	1.0	1.0	1.2	2.0
HC97-4189	2.3	1.0	1.0	1.0	2.3
HC98-251	2.5	1.0	1.0	1.0	1.8
HC98-312	3.3	1.0	1.0	0.9	2.3
HC98-691	1.0	1.0	1.0	0.9	1.0
HC98-1082	1.8	1.0	1.0	1.0	1.0
HC98-1980	1.0	1.0	1.0	1.0	1.5
HC98-4449	2.8	1.0	1.0	1.1	1.5
K1516	2.0	2.5	1.3	2.3	2.8
K1517	1.5	1.5	1.0	1.4	1.8
K1518	1.8	2.0	1.0	1.8	2.3
K1519	1.8	1.5	2.0	3.3	2.0
K1520	2.3	2.0	1.0	1.7	1.8
K1521	2.0	1.0	1.0	2.0	2.0
K1522	2.0	1.5	1.0	1.7	3.3
K1523	2.3	2.5	1.8	3.2	1.8
LN97-18394	2.3	2.0	1.0	3.7	2.3
LN97-26536	1.8	1.0	1.0	1.3	1.5

PRELIMINARY TEST IVB, 2001

PLANT HEIGHT (inches)

Strain	Mean 10 Tests	Belleville IL	Urbana IL	Butlerville IN	Manhattan KS	Lexington KY
HS93-4118 (IV)	33	39	35	31	34	37
LS93-0375 (SCN)	35	39	36	32	33	41
Macon (III)	33	37	38	31	32	41
Strong (dt1)	21	21	22	24	24	28
C2013	40	47	38	34	40	45
C2014	39	46	42	36	38	44
HC97-142R	17	15	19	24	14	22
HC97-578	19	17	22	25	18	27
HC97-580	20	21	22	29	25	26
HC97-964	20	25	22	33	16	23
HC97-4182	19	20	23	17	22	26
HC97-4189	19	20	22	15	17	27
HC98-251	20	22	22	17	19	28
HC98-312	18	21	23	15	15	24
HC98-691	18	21	22	13	17	27
HC98-1082	16	19	19	15	13	25
HC98-1980	19	20	22	15	20	27
HC98-4449	20	19	23	16	24	26
K1516	35	38	37	30	34	39
K1517	35	41	40	27	34	38
K1518	35	37	37	32	33	41
K1519	39	43	42	34	38	44
K1520	37	40	38	32	41	43
K1521	34	39	36	24	29	40
K1522	35	38	35	33	31	40
K1523	39	42	44	33	37	45
LN97-18394	34	34	36	21	37	41
LN97-26536	34	41	36	24	33	42

PRELIMINARY TEST IVB, 2001

PLANT HEIGHT (inches)

Strain	Queenstown MD	Kingdom City MO	Portageville MO	Mt. Orab OH	South Charleston OH
HS93-4118 (IV)	29	30	30	30	40
LS93-0375 (SCN)	31	34	35	29	39
Macon (III)	28	28	31	24	38
Strong (dt1)	21	14	14	15	25
C2013	35	40	38	35	47
C2014	35	37	37	29	47
HC97-142R	17	13	12	14	22
HC97-578	20	13	13	15	21
HC97-580	19	11	13	13	23
HC97-964	18	13	12	15	22
HC97-4182	21	12	14	15	24
HC97-4189	21	12	15	14	25
HC98-251	19	14	14	17	26
HC98-312	21	15	12	15	21
HC98-691	19	11	12	15	26
HC98-1082	18	10	10	12	21
HC98-1980	19	12	13	13	26
HC98-4449	25	13	14	18	24
K1516	31	32	33	32	41
K1517	30	32	32	32	43
K1518	32	33	35	29	41
K1519	34	39	40	31	41
K1520	31	37	34	32	42
K1521	34	39	34	29	40
K1522	31	35	35	26	43
K1523	36	39	39	31	43
LN97-18394	35	31	35	32	42
LN97-26536	32	29	35	29	39

PRELIMINARY TEST IVB, 2001

SEED SIZE (g/100)

Strain	Mean 9 Tests	Belleville IL	Urbana IL	Butlerville IN	Manhattan KS	Lexington KY
HS93-4118 (IV)	14.5	14.5	14.0	14.7	15.9	
LS93-0375 (SCN)	15.6	15.5	16.2	14.5	15.5	
Macon (III)	15.9	16.0	16.1	15.5	17.8	
Strong (dt1)	17.1	16.5	16.4	16.0	20.2	
C2013	15.4	16.0	14.7	15.3	17.4	
C2014	13.6	14.0	11.6	14.1	14.2	
HC97-142R	16.6	17.0	16.2	15.0	19.4	
HC97-578	17.4	16.0	16.9	15.3	23.0	
HC97-580	16.4	14.0	15.0	14.2	20.8	
HC97-964	14.6	16.0	14.0	12.3	17.9	
HC97-4182	17.2	16.0	15.9	14.8	22.4	
HC97-4189	16.9	17.5	16.7	14.6	21.3	
HC98-251	15.4	15.0	15.4	13.1	18.2	
HC98-312	16.5	17.5	15.6	15.3	19.2	
HC98-691	15.9	15.0	16.0	15.8	16.8	
HC98-1082	15.2	15.0	15.5	14.5	18.7	
HC98-1980	14.7	14.5	12.4	12.7	20.5	
HC98-4449	15.9	15.5	17.0	14.0	19.6	
K1516	15.4	14.5	15.2	14.9	17.5	
K1517	13.9	13.5	13.3	13.4	14.4	
K1518	15.1	13.5	14.9	14.3	19.0	
K1519	14.3	15.5	13.4	13.2	15.7	
K1520	15.2	14.5	13.8	14.1	17.2	
K1521	13.9	17.5	13.4	12.7	14.4	
K1522	15.1	15.0	14.8	13.9	17.4	
K1523	16.0	15.5	15.1	16.1	17.0	
LN97-18394	18.6	15.5	16.9	19.8	21.2	
LN97-26536	17.2	17.0	17.3	16.9	18.6	

PRELIMINARY TEST IVB, 2001

SEED SIZE (g/100)

Strain	Queenstown MD	Kingdom City MO	Portageville MO	Mt. Orab OH	South Charleston OH
HS93-4118 (IV)	13.8	15.0	14.3	13.8	14.9
LS93-0375 (SCN)	14.6	18.0	14.9	14.7	16.1
Macon (III)	15.0	17.0	14.7	14.5	16.4
Strong (dt1)	15.8	18.0	18.5	15.1	17.7
C2013	14.0	18.0	13.8	13.8	15.7
C2014	13.9	15.0	12.9	12.4	14.5
HC97-142R	15.3	18.0	16.7	14.3	17.3
HC97-578	18.3	19.0	18.4	13.9	16.1
HC97-580	15.4	21.0	18.2	13.6	15.0
HC97-964	13.8	15.0	15.7	12.2	14.3
HC97-4182	17.4	20.0	17.1	14.3	16.7
HC97-4189	18.3	19.0	14.7	13.6	16.7
HC98-251	13.7	19.0	16.7	12.7	15.2
HC98-312	16.0	19.0	15.9	13.1	16.6
HC98-691	15.3	17.0	16.8	13.7	17.0
HC98-1082	14.4	16.0	14.8	12.6	15.6
HC98-1980	12.5	17.0	18.4	11.4	13.0
HC98-4449	14.9	18.0	16.3	12.9	15.3
K1516	14.6	18.0	13.8	13.8	16.1
K1517	13.1	19.0	12.2	12.3	13.8
K1518	14.1	16.0	14.1	14.2	15.7
K1519	13.3	17.0	12.3	13.5	14.6
K1520	14.2	18.0	15.6	13.4	15.8
K1521	12.4	16.0	12.0	12.5	14.1
K1522	14.0	17.0	15.8	13.0	15.2
K1523	14.9	19.0	15.0	15.1	16.1
LN97-18394	18.4	20.0	18.0	17.9	20.0
LN97-26536	16.6	18.0	16.8	15.8	17.6

PRELIMINARY TEST IVB, 2001

SEED QUALITY (score)

Strain	Mean 9 Tests	Belleville IL	Urbana IL	Butlerville IN	Manhattan KS	Lexington KY
HS93-4118 (IV)	1.8	4.0	2.0	1.0	2.0	
LS93-0375 (SCN)	1.7	2.0	2.5	1.0	2.0	
Macon (III)	1.7	2.0	2.0	1.0	2.0	
Strong (dt1)	1.8	4.0	1.0	1.0	3.0	
C2013	1.8	4.0	2.0	1.0	2.0	
C2014	1.8	3.0	1.5	1.0	2.0	
HC97-142R	1.9	4.0	2.0	1.0	3.0	
HC97-578	2.2	3.0	2.0	1.0	4.0	
HC97-580	1.9	4.0	1.5	1.0	3.0	
HC97-964	1.9	3.0	2.0	1.0	2.0	
HC97-4182	2.4	3.0	3.0	1.0	4.0	
HC97-4189	2.1	4.0	3.0	1.0	2.0	
HC98-251	1.3	2.0	1.0	1.0	2.0	
HC98-312	1.4	2.0	1.5	1.0	2.0	
HC98-691	1.7	2.0	1.5	1.0	3.0	
HC98-1082	2.0	2.0	2.5	1.0	3.0	
HC98-1980	1.9	2.0	2.0	1.0	4.0	
HC98-4449	1.9	2.0	2.5	1.0	3.0	
K1516	1.8	2.0	3.0	1.0	2.0	
K1517	1.8	3.0	3.0	1.0	2.0	
K1518	1.9	4.0	3.0	1.0	2.0	
K1519	1.8	3.0	3.0	1.0	2.0	
K1520	1.7	3.0	2.5	1.0	2.0	
K1521	1.8	3.0	3.0	1.0	2.0	
K1522	2.0	3.0	3.0	1.0	2.0	
K1523	1.6	2.0	3.0	1.0	2.0	
LN97-18394	1.9	2.0	3.5	1.0	3.0	
LN97-26536	2.2	3.0	3.5	1.0	3.0	



## PRELIMINARY TEST IVB, 2001

## SEED QUALITY (score)

Strain	Queenstown MD	Kingdom City MO	Portageville MO	Mt. Orab OH	South Charleston OH
HS93-4118 (IV)	1.0	2.0	2.0	1.0	1.0
LS93-0375 (SCN)	1.0	2.0	2.0	1.0	1.5
Macon (III)	1.0	2.0	3.0	1.0	1.0
Strong (dt1)	1.0	2.0	2.0	1.0	1.5
C2013	1.0	2.0	2.0	1.0	1.0
C2014	1.8	2.0	3.0	1.0	1.0
HC97-142R	1.5	2.0	2.0	1.0	1.0
HC97-578	1.5	3.0	3.0	1.0	1.0
HC97-580	1.0	2.0	3.0	1.0	1.0
HC97-964	1.0	3.0	3.0	1.0	1.5
HC97-4182	1.5	3.0	4.0	1.0	1.5
HC97-4189	1.8	3.0	2.0	1.0	1.0
HC98-251	1.0	1.0	2.0	1.0	1.0
HC98-312	1.0	1.0	2.0	1.0	1.5
HC98-691	1.0	2.0	2.0	1.0	1.5
HC98-1082	2.0	2.0	3.0	1.0	1.5
HC98-1980	1.0	2.0	3.0	1.0	1.0
HC98-4449	1.0	2.0	3.0	1.0	1.5
K1516	1.0	2.0	3.0	1.0	1.0
K1517	1.0	2.0	2.0	1.0	1.5
K1518	1.0	2.0	2.0	1.0	1.0
K1519	1.0	2.0	2.0	1.0	1.5
K1520	1.0	2.0	2.0	1.0	1.0
K1521	1.0	2.0	2.0	1.0	1.0
K1522	1.0	2.0	3.0	1.0	2.0
K1523	1.0	1.0	2.0	1.0	1.5
LN97-18394	1.0	2.0	2.0	1.0	2.0
LN97-26536	1.3	3.0	3.0	1.0	1.0

PRELIMINARY TEST IVB, 2001

GREEN STEM (score)

Strain	Mean 2 Tests	Belleville IL	Urbana IL	Butlerville IN	Manhattan KS	Lexington KY
HS93-4118 (IV)	2.0					
LS93-0375 (SCN)	1.8					
Macon (III)	1.0					
Strong (dt1)	1.5					
C2013	1.5					
C2014	1.5					
HC97-142R	1.0					
HC97-578	2.0					
HC97-580	2.8					
HC97-964	1.5					
HC97-4182	2.0					
HC97-4189	2.0					
HC98-251	1.5					
HC98-312	1.8					
HC98-691	1.0					
HC98-1082	1.3					
HC98-1980	1.0					
HC98-4449	1.5					
K1516	1.8					
K1517	1.5					
K1518	2.0					
K1519	2.0					
K1520	2.0					
K1521	1.0					
K1522	1.0					
K1523	2.0					
LN97-18394	1.5					
LN97-26536	1.3					

PRELIMINARY TEST IVB, 2001

GREEN STEM (score)

Strain	Queenstown MD	Kingdom City MO	Portageville MO	Mt. Orab OH	South Charleston OH
HS93-4118 (IV)		2.5			1.5
LS93-0375 (SCN)		2.5			1.0
Macon (III)		1.0			1.0
Strong (dt1)		1.5			1.5
C2013		2.0			1.0
C2014		1.0			2.0
HC97-142R		1.0			1.0
HC97-578		2.5			1.5
HC97-580		2.5			3.0
HC97-964		1.0			2.0
HC97-4182		2.0			2.0
HC97-4189		2.0			2.0
HC98-251		1.0			2.0
HC98-312		1.0			2.5
HC98-691		1.0			1.0
HC98-1082		1.0			1.5
HC98-1980		1.0			1.0
HC98-4449		1.5			1.5
K1516		2.0			1.5
K1517		2.0			1.0
K1518		2.5			1.5
K1519		2.5			1.5
K1520		2.5			1.5
K1521		1.0			1.0
K1522		1.0			1.0
K1523		3.0			1.0
LN97-18394		2.0			1.0
LN97-26536		1.5			1.0

PRELIMINARY TEST IVB, 2001

PROTEIN (%)

Strain	Mean 5 Tests	Urbana IL	Butlerville IN	Lexington KY	Kingdom City MO	Mt. Orab OH
HS93-4118 (IV)	38.6	41.5	39.9	35.3	38.2	38.1
LS93-0375 (SCN)	41.1	42.9	41.1	39.1	40.9	41.8
Macon (III)	39.5	41.5	39.9	36.7	39.7	39.9
Strong (dt1)	40.2	40.6	41.7	37.6	40.9	40.0
C2013	38.8	42.4	39.0	35.7	40.0	36.7
C2014	39.5	41.5	41.6	36.2	39.3	39.1
HC97-142R	39.1	40.9	39.5	36.5	39.8	38.7
HC97-578	41.1	42.0	42.1	38.8	41.3	41.5
HC97-580	39.9	41.1	39.9	37.7	40.2	40.4
HC97-964	41.3	43.2	41.6	39.0	41.0	41.4
HC97-4182	40.7	42.4	41.0	39.4	40.1	40.7
HC97-4189	40.1	42.4	40.2	38.4	40.0	39.5
HC98-251	39.2	41.2	40.1	35.4	39.6	39.6
HC98-312	38.7	40.6	40.2	35.5	37.7	39.8
HC98-691	40.6	42.5	41.0	39.7	39.5	40.3
HC98-1082	40.5	42.1	40.8	39.0	40.1	40.6
HC98-1980	41.5	43.1	42.1	37.9	42.5	42.1
HC98-4449	40.4	42.4	40.8	37.3	41.0	40.6
K1516	40.4	41.9	41.0	38.1	40.4	40.4
K1517	40.4	44.2	41.4	38.0	38.8	39.7
K1518	39.7	41.6	40.0	37.6	40.3	39.2
K1519	40.3	40.5	41.2	38.5	40.8	40.2
K1520	39.7	41.0	39.5	40.0	39.0	38.8
K1521	40.7	44.0	40.7	38.4	39.9	40.3
K1522	40.7	41.8	42.0	39.9	39.1	40.7
K1523	40.9	42.7	41.7	38.1	40.3	41.7
LN97-18394	40.0	42.9	40.4	37.0	39.7	40.2
LN97-26536	39.5	41.3	40.3	37.1	38.9	39.9

PRELIMINARY TEST IVB, 2001

OIL (%)

Strain	Mean 5 Tests	Urbana IL	Butlerville IN	Lexington KY	Kingdom City MO	Mt. Orab OH
HS93-4118 (IV)	21.2	20.1	21.0	21.7	21.7	21.3
LS93-0375 (SCN)	20.5	20.1	20.7	20.7	21.0	20.2
Macon (III)	21.6	21.1	21.8	22.0	21.7	21.4
Strong (dt1)	21.5	21.1	21.3	21.8	21.7	21.5
C2013	21.5	20.0	22.0	21.6	21.4	22.6
C2014	21.7	21.3	20.5	22.3	22.3	22.0
HC97-142R	22.7	22.3	22.9	22.8	22.6	23.0
HC97-578	20.4	21.2	19.6	21.3	20.2	20.0
HC97-580	21.2	21.2	21.3	21.2	21.2	20.9
HC97-964	21.0	21.2	20.5	21.0	21.4	20.6
HC97-4182	20.8	20.7	20.9	20.8	21.3	20.4
HC97-4189	21.2	21.1	21.3	20.9	21.4	21.3
HC98-251	21.7	22.0	20.9	22.9	21.6	21.0
HC98-312	22.1	22.6	21.3	22.6	22.8	21.1
HC98-691	21.9	22.2	21.6	21.4	22.6	21.8
HC98-1082	21.0	21.4	20.8	20.9	21.1	20.7
HC98-1980	20.8	20.8	20.7	21.2	21.1	20.1
HC98-4449	20.9	21.0	20.8	22.0	20.1	20.7
K1516	21.6	21.7	21.3	21.7	22.1	21.3
K1517	21.2	19.7	20.7	21.2	22.5	21.8
K1518	21.5	21.2	21.7	21.7	21.4	21.8
K1519	20.9	20.0	20.8	21.2	21.0	21.4
K1520	21.5	21.7	21.3	21.0	21.8	21.7
K1521	20.9	19.8	20.9	21.0	21.8	21.1
K1522	20.8	20.7	20.8	20.4	21.7	20.6
K1523	21.2	20.2	20.9	21.6	21.9	21.1
LN97-18394	21.2	20.1	21.3	21.6	21.5	21.7
LN97-26536	22.1	22.3	21.6	22.6	22.5	21.7

