THE UNIFORM SOYBEAN TESTS

NORTHERN REGION

2002

UNITED STATES DEPARTMENT OF AGRICULTURE
AGRICULTURAL RESEARCH SERVICE

COOPERATING WITH

STATE AGRICULTURAL EXPERIMENT STATIONS

THE UNIFORM SOYBEAN TESTS NORTHERN STATES

2002

Coordinated by:

Wad D. Crochet
Department of Botany and Plant Pathology
Purdue University, W. Lafayette, IN 47907-1150
Office phone 765-583-2952
FAX 765-496-3452
Email: wcrochet@purdue.edu
www.agry.purdue.edu/soybean/regionalreport/index.htm

TABLE OF CONTENTS

ACKNOWLEDGEMENTS

The cooperation of Donna I. Thomas, NCR Unit Laboratory, National Center for Agriculture 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 David Jones, Richard Smith, and Judy Hirtel in packeting, distributing seed, and tabulating data 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 Unit at West Lafayette, Indiana. The lead scientist for the CRIS Unit is Dr. Scott Abney.

UNIFORM TEST PARTICIPANTS, 2002

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	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
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	Wad Crochet, USDA-ARS USDA Soybean Research Lab. 4540 Hwy. 52 West West Lafayette, IN 47906 Ph: 765-583-2952 FAX: 765-496-3452 Email: mailto:wcrochet@purdue.edu
Prakash R. Arelli, USDA-ARS 605 Airways Blvd. Jackson, TN 38301 Ph: 731-425-4741 FAX: 731-425-4760 Email: parelli@ars.usda.gov	Lisa Fritz, USDA-ARS 605 Airways Blvd. Jackson, TN 38301 Ph: 731-425-4737 FAX: 731-425-4760 Email: mailto:lfritz@msa-stoneville.ars.usda.gov
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	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
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	
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	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

Uniform Test Cooperator:	Technical Contact:
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	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: mailto:mendiola.3@pop.osu.edu
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	
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	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
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	Kevin Scholbrock 1210 Agronomy Hall Iowa State University Ames, IA 50011-1010 Ph: 515-294-0726 FAX: 515-294-6514 Email: kscholbr@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	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
George L. Graef 319 Keim Hall University of Nebraska Lincoln, NE 68583 Ph: 402-472-1537 FAX: 402-472-7904 Email: ggraef1@unl.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

Uniform Test Cooperator: Technical Contact:

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

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

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

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

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

Jerry Powell
Agronomy Dept., Lily Hall
Purdue University
West Lafayette, IN 47907
Ph: 765-496-1557
FAX: 765-496-2926
Email: jpowell@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

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

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: orfxx001@umn.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

UNIFORM TEST PARTICIPANTS, 2002

Uniform Test Cooperator:	Technical Contact:
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@uky.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
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	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
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	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
W. T. Schapaugh, Jr. Dept. of Agronomy, Throckmorton Hall Kansas State University Manhatten, KS 66506 Ph: 785-532-7242 FAX: 785-532-6094 Email: 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	Jim Klein 3268 West Pleasant Hill Rd. SIUC Carbondale, IL 62901 Ph: 618-453-2453 FAX: 618-453-8906 Email: jklein@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	

UNIFORM TEST PARTICIPANTS, 2002

Uniform Test Cooperator:	Technical Contact:
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	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
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	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
Clay Sneller 115 Plant Science Building University of Arkansas Fayetteville, AR 72701 Ph: 501-575-7564 FAX: 501-575-7465 Email: csneller@uark.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
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	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
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	
Robert Uniatowski Dept. of Plant and Soil Science University of Delaware Newark, DE 19717-1303 Ph: 302-831-2531 FAX: 302-831-3656 Email: bobuni@udel.edu	

Uniform Test Cooperator:

Mike Uphoff
Dept. of Plant Pathology
351 Bessey Hall
Iowa State University
Ames, IA 50011-1021
Ph: 515-294-5896
FAX: 515-294-9420
Email: mduphoff@iastate.edu

Technical Contact:

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

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

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

Terry Niblack
Department of Crop Science
University of Illinois
1102 S. Goodwin Ave.
Urbana, IL 61801
Ph: 217-244-5940
FAX: 217-333-9817
Email: tniblack@uic.edu

Introduction

Participants of the Uniform Soybean Tests at the annual meeting in February 2002 unanimously voted to amend the policy for evaluation of soybean strains. The primary change in policy focused on the inclusion of proprietary and/or transgenic strains in the tests. Emphasis was placed on having breeders currently using 'Roundup Ready' germplasm that is licensed with Monsanto contact Monsanto representative(s) to confirm if the current agreement permits evaluation of RR strains in the Uniform Soybean Tests. Information obtained by the ad hoc committee of southern (B. Paris, B. Kenworthy, & G. Busse) and northern (B. Schapaugh, D. Sleeper & R. Scott) participants and guidance from Dr. Rich Wilson, USDA-ARS, NPS-Oilseeds & Bioscience, permitted evaluation of RR germplasm in the 2002 Southern Uniform Soybean Tests; northern participants elected to delay testing of RR strains until 2003. Also, since the southern and northern participants chose to establish 'Combined tests' (including both proprietary and/or transgenic and conventional strains) vs. 'Separate tests', respectfully, the two working groups established guidelines for amending the policy on evaluation somewhat independently. Modifications identified in the 2002 business meeting of the northern participants are included in the following policy information.

Northern Region UT – POLICY ON EVALUATION AND RELEASE OF STRAINS

Qualifications for inclusion in the Uniform Tests.

1) Participants must be willing and able to conduct separate tests for conventional strains and strains containing proprietary and/or transgenic traits. However, all participants are not required to evaluate both; and, placement of proprietary entries depends on whether transgenic or non-transgenic.
2) Participants are individually responsible to ensure that any proprietary and/or transgenic strains that they submit are approved for human consumption and are cleared for sale as commodity seed.
3) Participants must disclose pedigrees to the Uniform Test Coordinator for publication with performance data in Uniform Soybean Test Report unless contract arrangements prohibit disclosure of information.
4) 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) Conventional entries in the Uniform tests may be used by Uniform Test participants as parents only in biparental crosses or in developing recurrent selection populations. Transgenic entries may be used in crossing subject to similar rules unless licensing or patenting restrictions regarding ownership of transgenic trait limit this use.
3) Uniform Test participants must obtain written 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.
5) Seed of any transgenic entry must not be used for further evaluation without written permission from the originator of the entry, and must be discarded at the end of the season, except for crossing purposes, subject to the restrictions outlined in the preceding sections two and three.

Release of Uniform Test entries.

Entries in the Uniform Tests are released according to the policy of the originating institution (USDA-Agricultural Research Service and State Agricultural Experiment Station or Canadian government).

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 Composited 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:

Group	Reference:	Range	Early check	Late check
00	McCall	-7 to +5	Jim	
0	Lambert	-6 to +2	Traill (E)	Parker (L)
I	Parker	-4 to +4	Lambert (0)	IA2050 (L)
II	IA2021	-3 to +5	IA1008 (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	Pseudomonas syringa pv. glycinea
BBV	Bud blight	Tobacco ringspot virus
BP	Bacterial pustule	Xanthomonas campestris pv. phaseoli
BS	Brown spot	Septoria glycines
BSR	Brown stem rot	Phialophora gregata
BTS	Bacterial tan spot	Corynebacterium flaccumfaciens
CN	Cyst nematode	Heterodera glycines
CR	Charcoal rot	Macrophomina phaseolina
DM	Downy mildew	Peronospora manshurica
FE	Frogeye leafspot	Cercospora sojina
PM	Powdery mildew	Microsphaera diffusa
PR	Phytophthora rot	Phytophthora sojae
PS	Purple stain	Cercospora kikuchii
P&SB	Pod & stem blight	Phomopsis spp.
Pyd	Pythium root rot	Pythium debaryanum
Pyu	Pythium root rot	Pythium ultimum
RK	Root knot nematode	Meloidogyne spp.
RP	Rhizoctonia root rot	Rhizoctonia solani
SB	Sclerotial blight	Sclerotium rolfsii
SC	Stem canker	Diaporthe phaseolorum var. caulivora
SCL	Sclerotinia stem rot	
SDS	Sudden death syndrome	
SMV	Soybean mosaic virus	
TS	Target spot	Corynespora cassiicola
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 cultvar. 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
Dilworth	HF-98-023	PTIIIB-2000, UTIII-2001
PRO 28-53	ORC 9901	UT0-2001, PT0-2002
RCAT Wildcat	ORC 9902	UT0-2001, PT0-2002
Apex	HC94-1065	PTIIIB-1998, UTIII-1999, UTIII-2000, UTIII-2001

Variety	Release date	Releasing states or Provinces	Foundation seed production
Dilworth	February 2002	Ohio	2002
PRO 28-53	2002	Ontario	2002
RCAT Wildcat	2002	Ontario	2002
Apex	2002	Ohio	2002

2002 Soybean Cyst Nematode evaluations provided by Dr. T. Niblack, Dept. Crop Science, Univ. Illinois

			SCN Population: PA3 HG Type 7 Race 3			SCN Population: 2001Urbana HG Type 2.7 Race 1			SCN Population: 2001 Clarl HG Type 1.2.3.5.6.7 Race 4		
Standards			Mean	FI		Mean	FI		Mean	FI	
Lee 74			194			147			411		
PI 548402 (Peking)			3	1		0	0		191	46	
PI 88788			13	7		23	15		71	17	
PI 90763			1	1		0	0		75	18	
PI 437654			0	0		0	0		0	0	
PI 209332			12	6		7	5		78	19	
PI 89772			2	1		0	0		111	27	
PI 548316 (Cloud)			31	16		31	21		191	46	
Pickett			5	2		0	0		317	77	
Strain	Parentage	2002 Tes	Mean	FI	Rating*	Mean	FI	Rating*	Mean	FI	Rating*
MN0902CN (SCN	Jack x Alpha	UT0	9	4	HR	27	19	R	88	21	R
M95-123023	Parker x M92-1631	UT0	20	10	ND	140	95	NR	375	91	NR
M96-355009	M91-116124 X MN1301	UP0	217	112	NR	120	82	NR	380	92	NR
M96-356055	M92-674 X M92-1708	UP0	20	10	R	117	80	NR	383	93	NR
M96-356062	M92-674 X M92-1708	UP0	11	5	HR	25	17	R	120	29	MR
IA1008 (SCN)	Northrup King S20-20 x Jack	UTI	10	5	HR	31	21	R	120	29	MR
A00-711020	A95-485020 x IA2036	UTI	9	5	HR	28	19	R **	94	23	R
A00-711024	A95-485020 x IA2036	UTI	16	8	HR	32	22	R	72	18	R
M95-255017	M92-1525 x A92-526007	UTI	36	19	ND	17	12	R	366	89	NR
M95-258296	Lambert x M92-1631	UTI	25	13	R	37	25	MR	104	25	MR
M95-261096	Stride x M92-1731	UTI	45	23	R	57	39	MR	177	43	LR
M96-143031	Faribault x M92-1683	UTI	111	57	ND	30	20	ND	254	62	NR
A01-410006	Pioneer 9306 x IA1009	UPI	32	16	R	75	51	ND	164	40	LR
A01-410009	Pioneer 9306 x IA1009	UPI	197	102	NR	172	117	NR	341	83	NR
Loda (SCN)	Jack x IA3003	UTII	6	3	HR	22	15	R	50	12	R
A00-711003	A95-485020 x IA2036	UTII	20	10	R	31	21	R	115	28	ND
A00-711013	AgriPro P1953 x LN94-10470	UTII	6	3	HR	20	14	R	60	15	R
E99301	Jack x Pioneer P9281	UTII	184	95	NR	113	77	NR	318	77	NR
A01-510046	Pioneer 9321 x IA1009	UPII	19	10	R	30	20	R	92	22	R
E00290	Jack x E93433	UPII	13	7	HR **	20	14	R	104	25	MR
IA3014 (SCN)	LN90-4366 x IA3005	UPIIIA	25	13	R	39	27	MR	178	43	LR
A01-512021	Pioneer 9321 x IA1009	UPIIIA	183	94	NR	124	85	NR	239	58	LR
A01-512036	U94-2306 x IA1009	UPIIIA	78	40	LR	80	54	LR	297	72	NR
A01-611005	A97-874007 x IA1009	UPIIIA	109	56	ND	135	92	NR	345	84	NR
A01-612032	IA1008 x Northup King S28-T30	UPIIIA	235	121	NR	145	99	NR	334	81	NR
A01-612038	IA1008 x Northup King S28-T30	UPIIIA	214	110	NR	145	99	NR	343	84	NR
A01-612041	IA1008 x Northup King S28-T30	UPIIIA	194	100	NR	174	118	NR	355	86	NR
A01-612043	IA1008 x Pioneer 9321	UPIIIA	214	110	NR	147	100	NR	338	82	NR
LDX98152-32	Dwight x LN92-7369	UPIIIA	140	72	NR	152	103	NR	350	85	NR

2002 Soybean Cyst Nematode evaluations provided by Dr. T. Niblack, Dept. Crop Science, Univ. Illinois

			SCN Population: PA3 HG Type 7 Race 3			SCN Population: 2001Urbana HG Type 2.7 Race 1			SCN Population: 2001 Clarl HG Type 1.2.3.5.6.7 Race 4		
Standards			Mean	FI		Mean	FI		Mean	FI	
Lee 74			194			147			411		
PI 548402 (Peking)			3	1		0	0		191	46	
PI 88788			13	7		23	15		71	17	
PI 90763			1	1		0	0		75	18	
PI 437654			0	0		0	0		0	0	
PI 209332			12	6		7	5		78	19	
PI 89772			2	1		0	0		111	27	
PI 548316 (Cloud)			31	16		31	21		191	46	
Pickett			5	2		0	0		317	77	
Strain	**Parentage**	**2002 Test**	Mean	FI	Rating*	Mean	FI	Rating*	Mean	FI	Rating*
LDX98154-8	Loda x Dwight	UPIIIA	10	5	HR **	25	17	R	89	22	R
LDX98160-20	LN95-6353 x Dwight	UPIIIA	20	10	R	26	17	R	97	24	R
LS99-2510	U93-3116 x A92-726004	UPIIIA	21	11	R	24	16	R	120	29	MR
LS99-2516	U93-3116 x A92-726004	UPIIIA	28	14	R	39	27	MR	196	48	LR
LS99-3107	U93-3116 x Pioneer P9451	UPIIIA	39	20	R	55	38	MR	165	40	LR
LS99-3149	A92-726004 x Ky90-1208	UPIIIA	24	12	R	25	17	R	133	32	MR
E00274	Jack x DST2118	UPIIIB	197	102	NR	149	101	NR	306	74	NR
E00294	Jack x AgriPro1995	UPIIIB	172	88	NR	158	108	NR	265	64	NR
E00306	Jack x IA2021	UPIIIB	186	96	NR	180	123	NR	358	87	NR
E00308	Jack x IA2021	UPIIIB	218	112	NR	133	90	NR	341	83	NR
LS93-0375 (SCN)	Asgrow A3935 x Pioneer P9402	UTIV	22	12	R **	36	25	MR	136	33	MR
LS97-1218	Flyer x Asgrow A4138	UTIV	39	20	R	45	31	MR	181	44	LR
LS98-0582	Northup King 46-44 x Asgrow 41	UTIV	17	9	HR	34	23	R	84	20	R
LS98-1386	LS88-1517 x Asgrow 4138	UTIV	261	64	NR	68	46	LR	261	64	NR
LS99-1121	A92-726004 x LS92-1800	UPIV	117	29	MR	20	13	R	117	29	MR
LS99-2235	Bell x P9451	UPIV	80	20	ND	24	17	R	80	20	ND
LS99-3346	DK469c x LN90-3364	UPIV	153	37	MR	62	42	ND	153	37	MR

* HR (highly resistant) = FI < 10
R (resistant) = FI 10 to 24
MR (moderately resistant) = FI 25 to 39
LR (low resistance) = FI 40 to 59
NR (no effective resistance) = FI > 60

** Data were variable; when test was repeated, FI was in the same range.

ND Data were variable; when test was repeated, FI was in a different range.

Data are cyst counts. Mean data for 3 reps shown.
FI = Female Index = (mean / mean on Lee74) *100
Inoculum level = 1000 eggs/100 cc soil. 27 C under 16 hr days for 30 days.

Strain	Parentage
A4	L15x AP68-1016
A8	A4 x Century
A13	Selection from AP9 Fe (S 1) C7
A17	BSR 101 x CN210
A20	BSR 101 x CN210
A1564	Hark x C1453
A3127	Williams x Essex
A3205	Kark x Wayne
A3935	MO474C x A3127
A9243	A1564 x A3127
A55-5629-4	Roanoke x Hawkeye
A74-204034	M62-263 x Amsoy 71
A75-10521	Corsoy (2) x L65-1342 or Anoka x Mack
A76-304020	(Beeson x AP68-1016) x (1,15 x Calland)
A79-136012	Pride B216 x Land 0' Lakes 4102
A80-147002	Northrup King S1492 x Pella
A80-244036	A74-204034 x Cumberland
A81-356022	Century x A76-304020
A83-271027	S1492 x A3127
A86-104011	A80-244039 x A8
A86-204022	Hack x Zane
A86-301024	A81-356022 x Hack
A86-303014	A81-356022 x Hack
A91-501002	AgriPro AP2190 x A86-301024
A91-701007	NK S23-03 x A86-301024
A91-701035	A86-301024 x Dekalb 226
A92-525014	IA2008 x Kenwood
A92-526007	A20 x Asgrow A2234
A92-529041	
A92-726004	Jack x Dairyland DSR-284
A93-552028	Archer x Kenwood
A93-554027	Northrup King S19-90 x A86-301024
A93-554045	Northrup King S30-41 x Archer
A93-751019	
A94-572028	Asgrow a2234 x HC5-604
A94-770016	A90-314041 x IA2012
A94-774021	Jacques J285 x Northrup King S29-39
A95-485020	(Pioneer P7273 x A 13) x Jack
A96-492041	Northrup King S24-92 x Northrup King S19-90
A96-492058	IA3003 x Northrup King S24-92
A97-874007	A93-751019 x IA3006
A97-874014	A93-751019 x IA3006
A97-874063	IA2034 x (Northrup King S24-92 x A92-529041)
A97-974011	A93-751019 x IA3006
AP1953	
AP1995	
AP3355	
AP68-1016	Clark (5) x PI 84.946-2
Asgrow A1564	Hark x C1453
Asgrow A2234	[(Callandx Amsoy) x Century (3)] x Williams 82
Asgrow A2575	C1453 x Amsoy 71
Asgrow A3127	Williams x Essex
Asgrow A3205	Northrup King S 1474 x Asgrow A3 127
Asgrow A3322	

Strain	Parentage
Asgrow A3733	Elf x Asgrow A3127
Asgrow A3860	Williams x Essex
Asgrow A3935	M0474C x Asgrow A3127
Asgrow A4009	Asgrow A3860 x Fayette
Asgrow A4138	Asgrow A4009 x Asgrow A4595
Asgrow A4268	Asgrow A1564 x Asgrow A3127
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
C1079	Lincoln x Ogden
C1253	Blackhawk x Harosoy
C1266R	Harosoy x C1079
C1426	C1253 x Kent
C1453	C I 266R x C 1253
C1655	Hobbit x Century
C1732	Century x Harper
C1813	C1655 x Pella 86
C1894	Burlison x A86-301024
C1926	ORC8805 x Archer
C1939	CRS3-998-24-1 x C1813
C1942	CRS7C1
CM497	Unknown
CRS3	Recurrent Selection population for high seed rotein
CRS3-998-24-1	Selection from high protein recurrent selection population
CRS7C1	Cycle 1 of recurrent selection population for high protein seed
C3S1-53	PMGT C3*-C3S1-53 * Cycle 3, S1 selections from PMGT Rec. Sel.
C3S1-57	PMGT C3-C3S1-57 population (A75-103019,A76-202015, A76-304005
C3S1-62	PMGT C3-C3S1-62 Cumberland, Pella, AP26, Century, NK S1346
C3S1-65	PMGT C3-C3S1-65 CX276, Pride B216)
C3S1-69	PMGT C3-C3S1-69
C3S1-71	PMGT C3-C3S1-71-
CX1022	Harper x C 1640
CX1212	C 1640 x BC2 BC4-12-13
CX1307	Cutler 71(5) x Pando
CX1349	CX 1022 x Resnik
CX1517-198	CRS3-998-4-1 x HC85-2206
D138	ICI Seeds
d5064	Unknown
D68-18	Dyer x Bragg
Dairyland DSR 277	
Dairyland DSR-217	(Corsoy x Hark) x Asgrow A3127
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
E84108	Sprite x Hardin
E85073	
E86237	Prosoy PS104 x HW8028
E91031	E84108 x Conrad
E93433	Asgrow A2943 x NK S23-12
HC74-634RE	Williams x Ransom
HC74-634RE BC	HC74-634RE (6) x Williams 82

Strain	Parentage
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	L7413-634 x Hobbit
HC84-553-1	Hobbit x K74-104-76-205
HC85-604	Sprite x Asgrow A3127
HC85-606	Sprite x Asgrow A3127
HC85-607	Sprite x Asgrow A3127
HC85-2206	elf x Williams 82
HC85-6577	HC78-350 x HC78-676
HC85-6723	HC74-634RE x HC78-676
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
HC90-3067	Hoyt x Resnik
HC95-24MB	
HC91-1354	Hobbit x Conrad
HOE-149	Selection from the RMHO population
HOE-199	Selection from the RMHO population
HOL-672	Selection from the RMHO population
HS87-5720	A2943 x A83-271027
HS89-2966	A2943 x A83-271027
HS93-4118	IA2007 x Dairyland DSR 304
HS93-7181	Hs89-2966 x (HS87-5720 X PI 398223)
HS94-4530	
HM9196	Will x A3127
HW8028	A75-10521 x Centry
J74-45	Forrest (2) x (D68-18 x PI 88.788)
Ja 53-7-6	Selection from Japanese variety
Jacques J-251	
Jacques J285	Weber x Asgrow A3127
K1062	Tracy x Willaims
K74-104-76-205	Tracy x Williams
KG20	McCall x 2S11
Ky90-1208	Asgrow A9395 x Hutcheson
L15	Wayne (6) x Clark 63
L57-0034	Clark x Adams
L62-1926	Clark (2) x PI 86.024
L65-1342	Wayne (2) xL62-1926
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

Strain	Parentage
L77-994	Williams (2) x PI 88.788
L78-189	Corsoy x Kingwa
Land O'Lakes 4102	[Wayne x (Clark x Adams)] x Cutler
LG82-8224	F4 PI 68.658 x Lawrence
LG82-8379	F4 PI 68-508 x FC 04.007B
LG84-1272	F5 PI 227.333 x PI 91.730-1
LG84-1291	F5 PI 68.522 x Hobbit
LG85-3343	F5 PI 3 61.064 x PI 407.7 10
LG87-1991	F6 PI 189.930 x PI 68.600
LG89-1525	F8 PI 90.566-1 x L74-3897
LG89-6607	F5 PI LG82-8224 x Hobbit
LG91-7320	F6 BSR 101 x LG82-8379
LG91-7431	F6 LG84-1272 x Elgin
LG92-1255	F6 LG84-1291 x A3127
LG93-7604	F6 LG85-3343 x S42-30
LG93-7654	F6 LG86-2734 x A3205
LG94-1128	F6 LG85-3343 x LG87-1991
LG95-441-4	F10 PI 68.508 x FC 04.007b
LN86-4668	Fayette x Hardin
LN89-295	Sherman x Resnik
LN89-3615	Hobbit 87 x Asgrow A3205
LN89-5717	Williams 82 (2) x PI 89772
LN91-1733	Asgrow A3733 x Resnik
LN90-4366	LN864668 x Resnik
LN92-7369	Burlison x C1732
LN94-10470	Jack x Hartwig
LN95-6353	Jack x Iroquois
LPL-718	Selection from the RMLP population
LS88-1517	Pyramid x Douglas
LS92-1800	Fayette x Pyramid
LS92-3660	Resnik x Asgrow A5474
M0385	IVR1120 x Calland
M0474C	White-flowered off type in Mitchell
M10	Lincoln (2) x Richland
M319W	Lincoln x Hawkeye
M387	Renville x Capital
M406	Harosoy x Norchief
M42-37	Lincoln (2) x Richland
M53-117	MIO x PI 180.501
M54-139	Renville x Capital
M54-240	Korean x M42-37
M59-120	M54-240 x M54-139
M61-224	Merit x Harsoy
M62-173	M387 x M406
M63-217Y	Corsoy x M53-117
M62-263	Grant x M319W
M65-442	Anoka x Amsoy
M67-141	Corsoy x Wayne
M68-2	Wilkin x M59-120
M68-49	Evans x M59-120
M68-49-26	Evans x M59-120
M86-421	M74-23 x Gnome
M70-127	Evans x M63-217Y
M70-294	Ja 53-7-6(PI 358.323 x M63-217Y)

Strain	Parentage
M71-148	Clay x Evans
M72-3	Evans x Hodgson
M73-62	M61-224 x PI 296.518
M74-23	M68-49 x Hodgson
M74-337	Evans x Northrup King 9436
M75-2	Hodgson (4) x [M67-141 x (Chippewa x Higan)]
M75-274	Evans x L70T-543
M76-151	M70-127 x Hodgson 78
M81-18	Evans x M65-442
M81-27	M68-49-26 x M70-294
M82-996	M72-3 x Peterson 1677
M83-442	M71-148 x Pioneer P0877
M73-727	M73-62 x Simpson
M83-830	Evans x Century
M84-916	A79-136012 x Dawson
M84-1034	M75-2 x K1062
M85- 52	M73-62 x Simpson
M85-564	M74-337 x M74-23
M85-647	Ozzie x Fayette
M86-421	M74-23 x Gnome
M88-302032	Leslie x T11
M90-370	M81-27 x M83-16
M90-766	M83-442 x McCall
M91-201	Agassiz x Maple Glen
M91-947	F1(Sturdy x Kato) x F1(Hardin x Kato)
M91-557	Ozzie x M86-421
M91-113037	Parker x Archer
M91-116124	Faribault x Archer
M91-1416	M83-727 x A86-104011
M92-1449	M84-1034 x Strudy
M92-1525	M85-647 x Bell
M92-1631	Faribault x Bell
M92-1683	Kato x Bell
M92-1708	Kato x Bell
M92-1731	Sturdy x Bell
M92623	M83-830 x OT87-12
M92-674	Agassiz x Ozzie
M92-836	M85-564 x Kato
M030421	
MO474C	Unknown
MSBP6	Male-sterile intermated population
ND93-5849	KG20 x Maple Donovan
ND(M)91-895	M81-27 x M85-52
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 B 152 x Pella
Northrup King S20-20	Pride B152 x CM497
Northrup King S20-91	
Northrup King S24-90	
Northrup King S24-92	Asgrow A3 127 x [(IVR 1120 x Calland) x (Mitchell x Cutler 7 1))

Strain	Parentage
Northrup King S26-06	Northrup King S 18-84 x Matsoy
Northrup King S28-T30	
Northrup King S29-39	Pride B 152 x 9240R
Northrup King S42-30	Essex x AgriPro 35
Northrup King S46-44	Asgrow A5474 x Asgrow A3127
OAC 89-08	(McCall x PI 361.088B) x Bicentennial)
OAC 88-09	OAC Thames
OAC 95-01	(Williams/Mpresto)M.Arrow x OAC Shire
OAC 96-07	OAC 89-08 x OT89-18
OAC 96-11	PS42 X M86-571
OAC-K1-fan	Maple Arow x PI 361088B
ORC8805	A80-147002 x Pride B152
ORC9308	T8508 x 9292
OT87-12	McCall x Maple Amber
OT89-16	AC Proteus
OT89-18	Maple Arow x X881-57
OT92-8	Baron x Maple Donovan
OT92-15	X947-22-B-1 x Maple Amber
OX611	Harcor x (SRF200,Harosoy-dt2 x OX708, Harosy-1n)
OX-8601	C3S1-53 x C3S1-65
OX-85242-3	C3S1-57 x C3S1-53
OX-85251-16	C3S1-62 x C3S1-53
OX-85284-4	C3S1-71 x C3S1-69
OX-89182-2-1	OX-8601-1 x OX-85284-4
OX-89194-1-8	OX-85242-3 x OX-85251-16
OXC9227-4	OX-89182-2-1 x Ox-89194-1-8
OXC9227-7	OX-89182-2-1 x Ox-89194-1-8
Peterson 1677	Corsoy (2) x Rampage
PG91-7323	
Pioneer P0877	(Clark x Chippewa 64) x Corsoy
Pioneer P7273	
Pioneer P9004	Maple Ridge x Lakota
Pioneer P9061	Wells x Pioneer P1677
Pioneer P9092	Pioneer P9061 x S15-50
Pioneer P9163	
Pioneer P9233	
Pioneer P9281	
Pioneer P9273	
Pioneer P9303	Pioneer Brand 2981 x M0835
Pioneer P9304	
Pioneer P9305	
Pioneer P9321	M030421 x (Weber x Asgrow A3127)
Pioneer P9341	M0835 x Asgrow 3127
Pioneer P9352	2981 x A2943
Pioneer P9362	
Pioneer P9392	A3127 x Gnome
Pioneer P9393	Asgrow A3733 x Resnik
Pioneer P9401	Williams x Cutler 71
Pioneer P9402	(L77-994 x Asgrow A3127) x L77-994
Pioneer P9441	Williams x Essex
Pioneer P9442	Pioneer P9441 x Asgrow A3127
Pioneer P9451	Pioneer P9571 x Pioneer P9402
Pioneer P9461	(351-29 x Asgrow A4268) X (Pioneer P9401 x Asgrow A3127)
Pioneer P9521	Pioneer P9531 x Pioneer P9561

Strain	Parentage
Pioneer P9531	Centennial x (Pickett 74 x J74-45)
Pioneer P9561	Mack x Forrest
Pioneer P9571	(Dyer x Forrest) x J74-45
Pioneer Brand 2981	S20 x Hark
PR93-21	
PR94-82	
Pride B152	Northrup King S 1346 (6) x Mack
Pride B216	Corsoy x Wayne
S20	Unknown
S1492	Corsoy x Wayne
SD(ND)94-9231	M83-64 x Pioneer P9061
SD92-1272	Sibley x Kato
SD92-1323	Kasota, x Kato
SD93-954	Kasota x Kato
SD(M)93-256	Kato x A17
Sigco KG20	McCall x 2S I I
SL90-754	M83-442 x M81-18
SL91-564	Ozzie x M86-421
SS91-7138	Pioneer P9442 x Pioneer P9461
Thompson T11	Thompson seed
T8508	NK S1346 x Calland
U91-2519	A86-204022 x HC84-553-1
U93-2412	M84-916 x A3935
U93-3116	Asgrow A3205 x Asgrow A3935
U93-3122	Asgrow A3205 x A86-303014
U94-2306	Holt x Dairyland DSR 304
U94-3412	Parker x Holt
U94-3518	Agserv 8780 x Uphoff 3 100
U95-2418	MSBP I (NE1900)
U96-1612	Parker x Saturn
U96-2909	IA2011 x LN98-295
U96-3640	IA3001 x U91-2519
UP1C6-47	Selection from the UP1 population, a recurrent sel. population
UPIFe-95-9	G. Graef
Uphoff 3 100	Unknown
X3836	Unknown
881-57	Williams x Maple Presto
X947-22-B-1	((M62-173 x T106, G. soja) x Altona) x OX611
059-903	PI 438471
2S11'	059-903 x Hardome
2981	Hark x (Corsoy x Calland)
9240R	Unknown
9352	Unknown
92546-01td	Tall dt x OAC 88-09 E. Cober's Ph D Thesis

2002 DISEASE, SHATTERING, AND DESCRIPTIVE DATA

	Location	Tests Conducted By:	Tests	UT	PT
IA	Humboldt	W. Fehr	Shattering Score	I-III	I-III
IN	Lafayette	S. Abney	PS	I-IV	I-IV
	Lafayette	S. Abney	P&SB	I-IV	I-IV
	Lafayette	S. Abney, W. Crochet	PR 4 & PR 7	00-IV	0-IV
	Lafayette	W. Crochet	Descriptive Code	00-IV	0-IV
MN	Yellow Medicine Co.	J.H. Orf	Fe Chlorosis	00-IV	0,I
MO	Kingdom City	D. Sleper	Shattering Score	III	IIIA
	Kingdom City	D. Sleper	Green Stem		IV
KS	Manhattan	W. Schapaugh, Jr.	Shattering Score	00-IV	0-IV
QUE	Saint Bruno	G. Tremblay	Green Stem	00-0	0-I

2002 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	T. Ishibashi/Chen	X	X	X	X	X	X					
	Keiser	T. Ishibashi/Chen				X	X	X					
	Rohwer	T. Ishibashi/Chen	X	X	X	X	X	X					
DE	Georgetown	B. Uniatowski						X					
	Middletown	B. Uniatowski					*	*					
IA	Ames	W. Fehr			**X**	**X**	**X**			**X**	**X**	**X**	
	Carlisle	W. Fehr					X					X	
	Fayette	W. Fehr			X					X			
	Richland	W. Fehr					X						
	Rippey	W. Fehr				X					X		
IL	Belleville	M. Schmidt						X					X
	Dekalb	B. Diers				**X**							
	Dewight	B. Diers				X							
	Harrisburg	M. Schmidt						X					X
	Newton	B. Diers					**X**	**X**					
	Urbana	B. Diers				X	X	X			**X**	X	**X**
IN	Butlerville	W. Crochet					X	**X**					**X**
	Lafayette	W. Crochet			X	**X**	**X**	**X**			**X**	**X**	
	Wanatah	W. Crochet			**X**	X	X						
KS	Manhattan	W. Schapaugh Jr.					X	X				X	X
	Ottawa	W. Schapaugh Jr.						X					
	Seneca	W. Schapaugh Jr.					X						
KY	Lexington	T. Pfeiffer						*					*
MD	Queenstown	W. Kenworhty / 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**			

2002 UNIFORM AND PRELIMINARY TEST LOCATIONS

	Location	Tests Conducted By:	Uniform Tests						Preliminary Tests				
			00	0	I	II	III	IV	0	I	II	III	IV
MO	McCreedie	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								
	Cotesfield	G. Graef / L.Korte			X	X				X	X		
	Palmyra	G. Graef / L.Korte			X	X	X			X	X	X	
	Plymouth	G. Graef / L.Korte					X					X	
	Tekamah	G. Graef / L.Korte					X					X	
ND	Casselton	T. Helms	X	X					X				
	Northwood	T. Helms	X										
OH	Hoytville	R. Fioritto				X	X				X	X	
	Wooster	R. Fioritto				X	X						
	Mt. Orab	S. St. Martin						X					X
	St. Charleston	S. St. Martin					X	X				X	
ONT	Beachburg	E. Cober	X										
	Elora	I. Rajcan	X										
	Harrow	V. Poysa				X					X		
	Ottawa	E. Cober		X					X				
	Chatham	G. Ablett			X	X				X			
	Talbotville	I. Rajcan			X					X			
	Woodstock	I. Rajcan		X					X				
QUE	Saint Bruno	G. Tremblay	X	X					X	X			
SD	Beresford	R. Scott				X					X		
	Brookings	R. Scott		X	X	X			X	X	X		
	Watertown	R. Scott		X	X				X	X			
TN	Jackson	P. Arelli											X
WI	Arlington	J. Lauer / M. Martinka		X	X	X							
X	Location With Agronomic Data		11	12	19	23	23	18	8	12	12	11	10
X*	Location With Seed Composition Data		5	5	5	5	5	4	5	5	5	4	3

* No data submitted due to severe drought conditions.

Uniform Test 00, 2002

Ent.	Strain	Parentage	Previous Testing	Generation Composited	Unique Traits
1.	McCall (00)	(Acme x Chippewa) x Hark	27	F5	
2.	Jim	Sigco KG20 x M81-18	2	F5	
3.	Glacier	McCall x Altona	6	F4	Rps6
4.	Traill (0)	M82-996 x Sigco KG20	7	F5	
5.	M94-135066	Harmony x OT92-8	2	F5	Rps1
6.	M95-116011	Glacier x S19-90	2	F5	Rps1, WM Res.
7.	ND98-1185	Traill x M90-766	1	F5	
8.	ND99-489	Daksoy x SL90-754	-	F4	
9.	ND99-700	SL91-754 x Pioneer P9004	-	F4	
10.	ND99-812	Traill x SL90-754	-	F4	
11.	ND99-1298	Surge x Pioneer P9004	-	F4	
12.	ND99-1302	Surge x Pioneer P9004	-	F4	
13.	ND99-1318	Surge x Pioneer P9004	-	F4	
14.	ND99-2266	ND93-5849 x Pioneer P9004	-	F4	Rps4
15.	ND99-2311	SL90-754 x Traill	-	F4	
16.	ND99-3107	Daksoy x Lambert	-	F4	
17.	ND99-3300	SL91-564 x ND93-5849	-	F4	Rps4
18.	ND99-3315	SL91-564 x ND93-5849	-	F4	Rps4
19.	OAC 99-02	OAC Brussels x (E85073 x Maple Glen)	2	F5	
20.	OAC 00-09	OAC Atwood x OAC Vision	1	F5	
21.	OAC 01-10	OAC Bayfield x OAC Millennium	-	F5	
22.	OAC 01-12	ND(M)90-705 x OAC Klondike	-	F5	
23.	OAC 01-13	Pride Seeds PS42 x E86237	-	F5	
24.	OT01-03	AC Harmony x OT92-15(X947-22-B-1/Maple Amber)	-	F5	
25.	OT01-04	Maple Glen x OT92-15(X947-22-B-1/Maple Amber)	-	F5	
26.	OT01-05	PS42 x X3055-fan-13-1(OAC-K1-fan /2*Maple Glen)	-	F5	

UNIFORM TEST 00, 2002

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	Chlorosis Score Yellow Medicine Co. MN	Shatter Score Manhat-tan	St. Bruno Montarville, Que Green Stem Score	PR Lafayette Race 4	PR Lafayette Race 7
McCall (00)	PTBDYYI	4.7	2.0	1.0	S	R
Jim	PGBDYYI	3.3	1.0	1.0	S	S
Glacier	PGBDYYI	3.3	1.0	1.0	S	S
Traill (0)	PTBDYYI	3.7	1.0	1.0	H	R
M94-135066	PTBDYBrI	4.0	1.0	1.0	R	R
M95-116011	PTTDYYI	4.3	2.0	1.0	R	R
ND98-1185	PGBDYLGrI	3.3	3.0	1.0	H	R
ND99-489	PGBDYYI	3.3	1.0	1.0	S	S
ND99-700	PGBSYYI	4.7	1.0	1.0	S	S
ND99-812	PTBSYYI	3.0	1.0	1.0	S	S
ND99-1298	PTBIYYI	3.7	2.0	1.0	S	S
ND99-1302	PTBIYBrI	4.0	1.0	1.0	S	S
ND99-1318	PTBDYIbI	3.0	1.0	1.0	S	S
ND99-2266	PTBSYYI	4.7	1.0	1.0	S	S
ND99-2311	PTBIYYI	3.0	1.0	1.0	S	S
ND99-3107	PGBDYYI	3.3	1.0	1.0	S	S
ND99-3300	PGBDYYI	3.7	2.0	2.0	S	S
ND99-3315	PGBDYYI	3.7	1.0	2.0	S	S
OAC 99-02	PTBIGGrI	4.7	1.0	1.5	S	S
OAC 00-09	WTBIYYI	2.7	1.0	2.0	S	S
OAC 01-10	PTBDYBrI	4.3	1.0	2.0	S	S
OAC 01-12	PTBIYYI	3.0	2.0	1.0	S	H
OAC 01-13	PTBIYYI	4.0	2.0	1.0	S	S
OT01-03	PTBIYYI	4.7	2.0	1.0	S	S
OT01-04	PTBDYYI	4.0	1.0	1.5	S	S
OT01-05	PTBDYYI	4.7	2.0	1.0	S	S

UNIFORM TEST 00, 2002

REGIONAL SUMMARY

No. of Tests Strain	Yield 8 bu/a	Rank 8 No.	Maturity 8 Date	Lodging 8 Score	Plant Height 8 In	Seed Size 7 g/100	Seed Quality 6 Score	Composition Protein 5 %	 Oil 5 %
McCall (00)	35.6	25	9/12	1.3	27	14.8	1.6	39.6	19.7
Jim	38.2	13	1.3	1.2	27	16.8	1.3	40.9	18.9
Glacier	37.7	15	2.4	1.8	27	15.7	1.6	41.7	19.0
Traill (0)	40.8	2	4.9	1.5	29	16.9	1.5	41.7	19.6
M94-135066	36.8	20	-1.1	1.2	29	16.2	1.6	40.4	20.5
M95-116011	38.6	10	0.8	1.0	25	17.5	1.6	40.9	19.5
ND98-1185	37.0	19	5.2	1.0	25	15.5	1.6	39.6	20.1
ND99-489	38.3	12	3.7	1.1	28	16.6	1.6	42.5	19.2
ND99-700	33.7	26	0.5	1.1	23	15.5	2.0	39.2	20.1
ND99-812	39.9	4	4.5	1.1	27	16.9	1.6	40.6	20.6
ND99-1298	36.0	23	1.7	1.1	27	16.2	1.7	40.0	20.5
ND99-1302	39.8	5	1.6	1.0	26	17.6	1.7	40.1	20.9
ND99-1318	36.2	21	0.6	1.0	25	17.0	1.8	40.9	20.4
ND99-2266	40.2	3	6.2	1.8	29	15.6	1.4	40.8	19.2
ND99-2311	37.8	14	3.0	1.1	26	17.2	1.6	41.1	20.1
ND99-3107	35.7	24	1.3	1.3	25	15.6	2.0	40.0	19.4
ND99-3300	36.2	21	6.3	1.3	25	15.7	2.0	41.1	20.1
ND99-3315	37.2	18	3.7	1.2	26	17.5	1.6	42.3	20.2
OAC 99-02	38.4	11	7.4	1.5	28	19.3	1.9	40.5	20.6
OAC 00-09	39.5	6	3.0	1.0	25	16.4	1.4	40.7	19.7
OAC 01-10	39.3	7	6.8	1.2	25	17.5	1.8	40.5	20.2
OAC 01-12	39.2	8	1.0	1.6	28	16.8	1.5	39.2	20.2
OAC 01-13	41.6	1	8.1	1.5	27	18.3	2.0	40.5	20.2
OT01-03	37.4	17	3.2	1.2	28	15.2	1.7	40.7	20.6
OT01-04	37.7	15	2.7	1.2	25	15.6	1.9	39.5	21.0
OT01-05	39.1	9	8.5	1.3	26	19.3	2.3	41.6	19.5

112.3 Days After Planting

UNIFORM TEST 00, 2002

2001-2002 2-YEAR MEAN

No. of Tests Strain	Yield 16 bu/a	Rank 16 No.	Maturity 16 Date	Lodging 15 Score	Plant Height 16 In.	Seed Size 14 g/100	Seed Quality 13 Score	Composition Protein 10 %	 Oil 10 %
McCall (00)	33.7	9	9/13	1.3	29	14.2	1.8	39.4	20.5
Jim	37.2	4	1.5	1.3	29	16.1	1.5	40.5	19.9
Glacier	35.7	7	2.1	1.7	29	14.8	1.6	40.6	20.0
Traill (0)	39.2	3	5.3	1.6	31	16.2	1.5	41.3	20.3
M94-135066	35.7	7	0.0	1.3	32	15.5	1.5	39.9	21.2
M95-116011	37.1	6	1.2	1.2	28	17.0	1.6	40.6	20.2
ND98-1185	37.2	4	5.7	1.2	28	15.2	1.5	39.6	20.8
OAC 99-02	39.4	2	7.5	1.7	32	17.9	1.9	39.5	21.3
OAC 00-09	40.4	1	3.0	1.1	28	15.9	1.4	40.2	20.5

110.2 Days After Planting

2000-2002 3-YEAR MEAN

No. of Tests Strain	Yield 23 bu/a	Rank 23 No.	Maturity 23 Date	Lodging 22 Score	Plant Height 23 In.	Seed Size 21 g/100	Seed Quality Score	Composition Protein 14 %	 Oil 14 %
McCall (00)	34.1	7	9/14	1.3	27	14.9		39.2	20.6
Jim	37.3	5	1.8	1.3	27	16.2		39.7	20.2
Glacier	36.7	6	2.1	1.6	28	15.6		40.2	20.0
Traill (0)	39.6	1	5.7	1.5	29	16.6		41.0	20.1
M94-135066	38.0	3	0.3	1.3	30	16.1		39.6	21.3
M95-116011	37.8	4	1.6	1.1	26	17.6		40.3	20.3
OAC 99-02	39.1	2	7.4	1.6	30	18.0		39.2	21.2

113.5 Days After Planting

UNIFORM TEST 00, 2002

YIELD (bu/a)

Strain	Mean 8 Tests	Fayetteville* irrigated AR	Rohwer* irrigated AR	Crookston MN	Moorhead MN	Shelly MN	Portageville* (Loam) MO
McCall (00)	35.6	49.6	8.6	31.6	36.8	45.7	3.5
Jim	38.2	47.9	10.1	32.7	43.7	51.2	5.1
Glacier	37.7	40.0	9.8	31.0	41.0	45.3	4.1
Traill (0)	40.8	52.2	10.4	34.5	46.9	50.5	5.3
M94-135066	36.8	47.9	8.4	26.8	44.9	44.7	4.7
M95-116011	38.6	45.7	10.2	26.5	47.8	42.4	4.5
ND98-1185	37.0	54.3	7.6	17.6	48.2	46.3	5.2
ND99-489	38.3	48.6	6.7	36.0	41.8	48.3	2.8
ND99-700	33.7	45.9	8.4	25.4	40.0	38.8	5.5
ND99-812	39.9	55.0	9.4	32.2	44.3	51.1	5.5
ND99-1298	36.0	42.8	8.4	18.0	42.2	46.2	6.2
ND99-1302	39.8	52.5	17.3	34.9	42.9	46.7	4.4
ND99-1318	36.2	42.7	15.0	30.2	35.4	41.7	6.6
ND99-2266	40.2	50.7	11.7	32.2	45.2	47.6	7.0
ND99-2311	37.8	44.6	7.6	37.9	47.1	45.9	5.7
ND99-3107	35.7	50.3	8.9	30.6	45.9	46.3	5.3
ND99-3300	36.2	55.3	12.0	22.5	52.6	42.8	7.1
ND99-3315	37.2	51.8	10.8	24.9	44.7	40.0	7.2
OAC 99-02	38.4	51.0	11.8	17.2	46.5	48.6	7.2
OAC 00-09	39.5	49.4	9.2	27.8	45.4	49.1	7.8
OAC 01-10	39.3	52.7	14.6	27.2	51.0	48.7	4.7
OAC 01-12	39.2	57.0	15.1	27.3	41.9	46.5	5.2
OAC 01-13	41.6	49.7	10.5	33.0	52.6	50.2	6.2
OT01-03	37.4	43.8	10.0	**5.4	39.3	41.2	9.0
OT01-04	37.7	42.6	13.4	17.2	42.0	48.0	6.2
OT01-05	39.1	57.0	12.5	**2.3	43.6	43.2	12.9
C.V. (%)		13.9	18.5	17.9	9.8	13.8	26.2
L.S.D. (5%)		11.4	3.7	7.6	7.1	10.3	2.1
Row Sp. (in.)		7.5	7.5	12	10	10	7.5
Rows/Plot		7	9	8	8	8	6
Reps		3	3	3	3	3	3

** Severely affected by apparent iron chlorosis susceptibility.

* Data not included in mean.

UNIFORM TEST 00, 2002

YIELD (bu/a)

Strain	Casselton ND	Northwood ND	Beachburg Ont.	Elora Ont.	St. Bruno Montarville Que.
McCall (00)	27.8	45.4	18.5	49.1	30.0
Jim	25.2	46.0	22.8	53.9	30.4
Glacier	32.7	42.8	25.3	50.1	33.4
Traill (0)	37.2	44.6	22.7	54.2	36.0
M94-135066	28.2	41.9	23.8	56.1	28.2
M95-116011	45.4	45.7	23.5	49.8	28.0
ND98-1185	29.8	47.6	22.5	53.4	30.7
ND99-489	30.6	49.5	17.2	54.1	28.8
ND99-700	27.1	46.1	19.1	48.0	25.1
ND99-812	38.4	50.2	23.3	52.9	26.8
ND99-1298	34.3	41.4	20.3	54.1	31.4
ND99-1302	37.7	44.2	25.2	57.6	29.6
ND99-1318	33.5	45.1	20.6	55.1	28.0
ND99-2266	43.6	48.1	21.5	53.5	29.7
ND99-2311	30.4	47.5	17.9	46.9	28.8
ND99-3107	25.5	48.9	15.3	46.5	26.4
ND99-3300	30.5	44.3	21.5	46.7	28.7
ND99-3315	35.5	51.9	20.3	52.1	28.5
OAC 99-02	37.2	46.7	22.2	56.2	32.2
OAC 00-09	39.7	41.1	25.9	52.7	34.2
OAC 01-10	29.0	47.1	26.7	52.7	32.2
OAC 01-12	35.0	43.6	24.7	59.7	34.6
OAC 01-13	40.9	47.7	24.7	54.5	29.4
OT01-03	35.8	46.8	19.8	49.6	29.4
OT01-04	39.6	50.6	23.1	51.0	29.9
OT01-05	23.1	51.1	24.7	56.7	31.3
C.V. (%)	23.3	12.1	11.5	6.1	7.5
L.S.D. (5%)	12.6	9.0	2.8	5.4	5.6
Row Sp. (in.)	30	30	16	14	7
Rows/Plot	4	4	4	4	5
Reps	3	3	3	3	2

UNIFORM TEST 00, 2002

YIELD RANK

Strain	Yield Rank	Fayetteville* irrigated AR	Rohwer* irrigated AR	Crookston MN	Moorhead MN	Shelly MN	Portageville* (Loam) MO
McCall (00)	25	14	20	9	25	17	25
Jim	13	17	14	6	15	1	19
Glacier	15	26	16	10	22	18	24
Traill (0)	2	8	12	4	7	3	15
M94-135066	20	17	21	16	12	19	20
M95-116011	10	20	13	17	5	22	22
ND98-1185	19	5	24	22	4	13	17
ND99-489	12	16	26	2	21	8	26
ND99-700	26	19	21	18	23	26	13
ND99-812	4	4	17	7	14	2	13
ND99-1298	23	23	21	21	18	15	9
ND99-1302	5	7	1	3	17	11	23
ND99-1318	21	24	3	12	26	23	8
ND99-2266	3	11	9	7	11	10	7
ND99-2311	14	21	24	1	6	16	12
ND99-3107	24	12	19	11	9	13	15
ND99-3300	21	3	7	20	1	21	6
ND99-3315	18	9	10	19	13	25	4
OAC 99-02	11	10	8	23	8	7	4
OAC 00-09	6	15	18	13	10	5	3
OAC 01-10	7	6	4	15	3	6	20
OAC 01-12	8	1	2	14	20	12	17
OAC 01-13	1	13	11	5	2	4	9
OT01-03	17	22	15	25	24	24	2
OT01-04	15	25	5	24	19	9	9
OT01-05	9	1	6	26	16	20	1

* Data not included in mean.

UNIFORM TEST 00, 2002

YIELD RANK

Strain	Casselton ND	Northwood ND	Beachburg Ont.	Elora Ont.	St. Bruno Montarville Que.
McCall (00)	22	17	23	22	11
Jim	25	15	12	11	10
Glacier	15	23	3	19	4
Traill (0)	8	19	13	8	1
M94-135066	21	24	8	5	21
M95-116011	1	16	9	20	22
ND98-1185	19	9	14	13	9
ND99-489	16	5	25	10	17
ND99-700	23	14	22	23	26
ND99-812	6	4	10	14	24
ND99-1298	13	25	19	9	7
ND99-1302	7	21	4	2	14
ND99-1318	14	18	18	6	23
ND99-2266	2	7	16	12	13
ND99-2311	18	10	24	24	18
ND99-3107	24	6	26	26	25
ND99-3300	17	20	17	25	19
ND99-3315	11	1	20	17	20
OAC 99-02	8	13	15	4	5
OAC 00-09	4	26	2	16	3
OAC 01-10	20	11	1	15	6
OAC 01-12	12	22	7	1	2
OAC 01-13	3	8	5	7	15
OT01-03	10	12	21	21	16
OT01-04	5	3	11	18	12
OT01-05	26	2	6	3	8

UNIFORM TEST 00, 2002

MATURITY (date)

Strain	Mean 8 Tests	Fayetteville* irrigated AR	Rohwer* irrigated AR	Crookston MN	Moorhead MN	Shelly MN	Portageville* (Loam) MO
McCall (00)	9/12	7/29	7/2	9/19	9/12	9/16	7/14
Jim	1.3	-1	3	2	6	4	1
Glacier	2.4	-1	2	5	6	6	-6
Traill (0)	4.9	2	3	5	9	9	1
M94-135066	-1.1	4	3	-3	2	2	1
M95-116011	0.8	-2	1	1	4	4	-5
ND98-1185	5.2	-1	1	3	9	8	-4
ND99-489	3.7	-2	0	0	8	6	-2
ND99-700	0.5	-1	1	-2	3	0	-1
ND99-812	4.5	0	3	4	11	7	-1
ND99-1298	1.7	0	4	-1	1	2	2
ND99-1302	1.6	2	3	-2	2	2	4
ND99-1318	0.6	1	2	-3	2	1	5
ND99-2266	6.2	0	3	4	4	4	4
ND99-2311	3.0	-1	0	1	8	6	4
ND99-3107	1.3	-1	0	-3	0	0	-1
ND99-3300	6.3	-1	3	6	6	8	-5
ND99-3315	3.7	2	3	7	3	3	5
OAC 99-02	7.4	4	4	7	13	10	0
OAC 00-09	3.0	2	3	-1	9	7	1
OAC 01-10	6.8	2	3	4	12	11	4
OAC 01-12	1.0	3	2	-1	3	2	4
OAC 01-13	8.1	3	0	7	13	13	5
OT01-03	3.2	-1	2	6	7	5	4
OT01-04	2.7	-2	2	8	9	7	-2
OT01-05	8.5	2	2	14	12	12	8
Date Planted	5/23	4/25	4/16	5/25	5/29	5/30	4/19
Days to Mature	112.3	95	77	117	106	109	86

* Data not included in mean.

UNIFORM TEST 00, 2002

MATURITY (date)

Strain	Casselton ND	Northwood ND	Beachburg Ont.	Elora Ont.	St. Bruno Montarville Que.
McCall (00)	9/14	9/15	9/8	9/14	9/10
Jim	0	4	1	-9	2
Glacier	0	7	2	-7	0
Traill (0)	2	11	2	-4	5
M94-135066	-3	-1	0	-7	1
M95-116011	-4	4	2	-9	5
ND98-1185	2	15	4	-5	5
ND99-489	3	12	4	-5	2
ND99-700	-1	3	4	-5	2
ND99-812	1	11	3	-7	6
ND99-1298	3	5	2	-3	5
ND99-1302	1	7	4	-5	4
ND99-1318	-1	4	3	-6	5
ND99-2266	21	19	3	-7	2
ND99-2311	2	7	2	-8	6
ND99-3107	11	5	1	-6	2
ND99-3300	1	19	6	-1	5
ND99-3315	3	8	3	-5	7
OAC 99-02	8	13	4	-5	9
OAC 00-09	-1	7	4	-5	4
OAC 01-10	9	12	5	-6	7
OAC 01-12	-1	6	3	-5	1
OAC 01-13	9	17	5	-5	6
OT01-03	0	5	4	-4	3
OT01-04	-2	4	2	-10	3
OT01-05	10	14	5	-4	5
Date Planted	5/16	5/25	5/28	5/28	5/20
Days to Mature	121	113	103	109	113

UNIFORM TEST 00, 2002

LODGING (score)

Strain	Mean 8 Tests	Fayetteville* irrigated AR	Rohwer* irrigated AR	Crookston MN	Moorhead MN	Shelly MN	Portageville* (Loam) MO
McCall (00)	1.3	1.0	1.0	2.0	1.0	1.3	1.0
Jim	1.2	1.0	1.0	1.3	1.0	1.3	1.0
Glacier	1.8	1.0	1.0	1.3	5.0	2.0	1.0
Traill (0)	1.5	1.0	1.0	1.7	2.3	1.7	1.0
M94-135066	1.2	1.0	1.0	1.0	1.0	1.0	1.0
M95-116011	1.0	1.0	1.0	1.0	1.0	1.0	1.0
ND98-1185	1.0	1.0	1.0	1.0	1.0	1.0	1.0
ND99-489	1.1	1.0	1.0	1.3	1.0	1.3	1.0
ND99-700	1.1	1.0	1.0	1.0	1.0	1.0	1.0
ND99-812	1.1	1.0	1.0	1.0	1.0	1.3	1.0
ND99-1298	1.1	1.0	1.0	1.0	1.0	1.0	1.0
ND99-1302	1.0	1.0	1.0	1.3	1.0	1.0	1.5
ND99-1318	1.0	1.0	1.0	1.0	1.0	1.0	1.0
ND99-2266	1.8	1.0	1.0	2.0	2.7	1.0	1.3
ND99-2311	1.1	1.0	1.0	1.7	1.0	1.0	1.0
ND99-3107	1.3	1.0	1.0	1.7	1.0	1.0	1.0
ND99-3300	1.3	1.0	1.0	1.0	1.3	1.0	1.0
ND99-3315	1.2	1.0	1.0	1.0	1.0	1.3	1.3
OAC 99-02	1.5	1.0	1.0	1.0	3.3	1.0	1.0
OAC 00-09	1.0	1.0	1.0	1.0	1.3	1.0	1.0
OAC 01-10	1.2	1.0	1.0	1.3	1.3	1.0	1.0
OAC 01-12	1.6	1.0	1.0	2.0	2.7	1.0	1.3
OAC 01-13	1.5	1.0	1.0	1.0	3.0	1.7	1.0
OT01-03	1.2	1.0	1.0	1.0	1.0	1.0	1.0
OT01-04	1.2	1.0	1.0	1.0	1.3	1.0	1.0
OT01-05	1.3	1.0	1.0	1.0	1.7	1.0	1.0

* Data not included in mean.

UNIFORM TEST 00, 2002

LODGING (score)

Strain	Casselton ND	Northwood ND	Beachburg Ont.	Elora Ont.	St. Bruno Montarville Que.
McCall (00)	1.0	1.7	1.0	1.5	1.0
Jim	1.0	2.0	1.0	1.0	1.0
Glacier	1.0	2.0	1.0	1.0	1.0
Traill (0)	1.0	2.3	1.0	1.0	1.0
M94-135066	1.0	2.3	1.0	1.5	1.0
M95-116011	1.0	1.3	1.0	1.0	1.0
ND98-1185	1.0	1.3	1.0	1.0	1.0
ND99-489	1.0	1.0	1.0	1.0	1.0
ND99-700	1.0	1.3	1.0	1.5	1.0
ND99-812	1.0	1.3	1.0	1.0	1.0
ND99-1298	1.0	2.0	1.0	1.0	1.0
ND99-1302	1.0	1.0	1.0	1.0	1.0
ND99-1318	1.0	1.3	1.0	1.0	1.0
ND99-2266	1.0	4.0	1.0	2.0	1.0
ND99-2311	1.0	1.0	1.0	1.0	1.0
ND99-3107	1.0	2.3	1.0	1.0	1.0
ND99-3300	1.0	2.7	1.0	1.0	1.0
ND99-3315	1.0	2.3	1.0	1.0	1.0
OAC 99-02	1.0	2.3	1.0	1.0	1.0
OAC 00-09	1.0	1.0	1.0	1.0	1.0
OAC 01-10	1.0	2.0	1.0	1.0	1.0
OAC 01-12	1.0	3.0	1.0	1.0	1.0
OAC 01-13	1.0	2.3	1.0	1.0	1.0
OT01-03	1.0	2.0	1.0	1.5	1.0
OT01-04	1.0	2.0	1.0	1.0	1.0
OT01-05	1.0	2.3	1.0	1.0	1.0

UNIFORM TEST 00, 2002

PLANT HEIGHT (inches)

Strain	Mean 8 Tests	Fayetteville* irrigated AR	Rohwer* irrigated AR	Crookston MN	Moorhead MN	Shelly MN	Portageville* (Loam) MO
McCall (00)	27	21	10	24	33	31	10
Jim	27	19	10	21	34	33	10
Glacier	27	20	11	22	36	30	9
Traill (0)	29	21	9	25	37	33	9
M94-135066	29	22	11	22	37	31	10
M95-116011	25	19	10	16	33	30	10
ND98-1185	25	21	8	14	33	28	8
ND99-489	28	22	9	23	31	33	9
ND99-700	23	20	9	16	26	23	8
ND99-812	27	21	10	20	35	32	10
ND99-1298	27	19	12	13	29	29	10
ND99-1302	26	24	12	20	31	25	10
ND99-1318	25	19	10	17	28	28	11
ND99-2266	29	23	11	23	33	30	11
ND99-2311	26	18	8	21	31	31	10
ND99-3107	25	19	9	21	31	31	10
ND99-3300	25	21	11	16	28	27	9
ND99-3315	26	19	9	17	31	27	10
OAC 99-02	28	23	11	15	38	31	12
OAC 00-09	25	21	12	17	30	29	13
OAC 01-10	25	21	11	16	32	27	10
OAC 01-12	28	22	11	20	37	29	10
OAC 01-13	27	22	10	19	33	29	10
OT01-03	28	20	10	12	37	28	12
OT01-04	25	18	11	15	36	27	11
OT01-05	26	26	12	10	34	26	14

* Data not included in mean.

UNIFORM TEST 00, 2002

PLANT HEIGHT (inches)

Strain	Casselton ND	Northwood ND	Beachburg Ont.	Elora Ont.	St. Bruno Montarville Que.
McCall (00)	22	31	20	27	24
Jim	20	38	21	27	25
Glacier	22	34	24	26	24
Traill (0)	24	35	22	29	28
M94-135066	27	38	20	31	27
M95-116011	23	31	20	23	24
ND98-1185	21	36	21	27	24
ND99-489	22	35	21	30	28
ND99-700	19	33	19	26	23
ND99-812	25	33	21	28	23
ND99-1298	26	38	23	28	28
ND99-1302	24	36	21	27	23
ND99-1318	24	36	21	27	22
ND99-2266	23	43	22	29	28
ND99-2311	24	34	19	25	25
ND99-3107	17	35	19	26	23
ND99-3300	20	31	21	30	25
ND99-3315	24	35	19	27	25
OAC 99-02	23	40	23	29	28
OAC 00-09	20	35	19	26	25
OAC 01-10	19	30	20	28	26
OAC 01-12	26	37	23	29	27
OAC 01-13	24	38	21	27	26
OT01-03	22	35	23	32	32
OT01-04	19	29	24	27	25
OT01-05	22	36	25	31	27

UNIFORM TEST 00, 2002

SEED SIZE (g/100)

Strain	Mean 7 Tests	Fayetteville* irrigated AR	Rohwer* irrigated AR	Crookston MN	Moorhead MN	Shelly MN	Portageville* (Loam) MO
McCall (00)	14.8	13.9	11.4	11.4	14.3	16.5	12.7
Jim	16.8	16.1	13.5	15.7	17.3	18.7	12.6
Glacier	15.7	16.1	12.0	13.5	15.6	17.2	12.5
Traill (0)	16.9	16.7	14.0	14.6	16.8	18.1	13.0
M94-135066	16.2	15.5	12.0	14.2	15.7	16.7	13.7
M95-116011	17.5	16.7	12.5	15.4	17.0	19.4	12.6
ND98-1185	15.5	15.1	11.6	12.8	15.8	16.5	12.5
ND99-489	16.6	16.9	13.2	14.9	16.8	17.5	12.6
ND99-700	15.5	13.9	12.4	13.4	16.5	16.8	14.2
ND99-812	16.9	15.3	12.7	14.0	17.4	17.8	13.0
ND99-1298	16.2	14.5	13.2	14.4	16.6	16.8	14.0
ND99-1302	17.6	18.8	13.2	16.6	17.9	18.9	15.1
ND99-1318	17.0	16.0	13.3	15.4	16.4	17.3	14.8
ND99-2266	15.6	14.9	11.8	14.8	16.1	16.2	14.4
ND99-2311	17.2	15.4	13.0	16.0	16.7	18.7	12.3
ND99-3107	15.6	14.2	10.8	13.2	16.0	16.1	11.5
ND99-3300	15.7	13.5	12.3	13.3	15.1	17.1	12.5
ND99-3315	17.5	17.2	12.4	15.2	17.4	17.1	15.6
OAC 99-02	19.3	18.4	15.0	16.9	19.0	19.9	15.7
OAC 00-09	16.4	15.2	12.7	13.2	16.3	17.6	13.7
OAC 01-10	17.5	17.4	12.6	14.7	17.7	19.1	12.7
OAC 01-12	16.8	17.7	13.0	14.0	15.9	17.0	14.0
OAC 01-13	18.3	16.8	13.3	16.1	19.6	20.5	14.2
OT01-03	15.2	14.4	12.1	13.9	15.2	15.5	13.1
OT01-04	15.6	14.8	11.9	13.0	15.9	17.1	12.5
OT01-05	19.3	17.9	7.6	13.8	21.3	20.2	17.1

* Data not included in mean.

UNIFORM TEST 00, 2002

SEED SIZE (g/100)

Strain	Casselton ND	Northwood ND	Beachburg Ont.	Elora Ont.	St. Bruno Montarville Que.
McCall (00)	15.1		13.2	16.4	16.8
Jim	17.6		14.2	17.1	17.0
Glacier	16.5		14.2	16.8	16.0
Traill (0)	17.8		15.4	18.0	17.8
M94-135066	16.7		14.6	18.7	16.8
M95-116011	18.2		15.2	18.4	18.7
ND98-1185	17.4		13.4	16.8	15.6
ND99-489	18.9		14.7	17.4	16.1
ND99-700	16.9		14.2	15.6	15.2
ND99-812	18.5		15.2	17.6	17.6
ND99-1298	17.2		15.2	16.6	17.0
ND99-1302	17.6		15.0	19.9	17.4
ND99-1318	19.1		15.1	17.4	18.1
ND99-2266	16.2		13.6	16.1	16.5
ND99-2311	17.9		15.4	18.2	17.2
ND99-3107	20.8		12.6	16.2	14.6
ND99-3300	17.6		14.4	16.5	15.7
ND99-3315	20.9		15.3	17.8	18.5
OAC 99-02	21.3		17.7	21.0	19.4
OAC 00-09	16.7		16.0	17.0	18.3
OAC 01-10	18.6		16.1	18.1	18.3
OAC 01-12	18.1		14.6	19.9	18.1
OAC 01-13	18.2		16.8	19.0	18.0
OT01-03	15.6		14.6	15.4	16.5
OT01-04	16.7		14.1	16.8	16.0
OT01-05	20.4		17.6	22.3	19.6

UNIFORM TEST 00, 2002

SEED QUALITY (score)

Strain	Mean 6 Tests	Fayetteville* irrigated AR	Rohwer* irrigated AR	Crookston MN	Moorhead MN	Shelly MN	Portageville* (Loam) MO
McCall (00)	1.6	1.7	2.3	2.0	2.0	1.7	5.0
Jim	1.3	2.0	2.8	2.3	1.3	1.3	5.0
Glacier	1.6	2.5	2.8	2.7	1.7	1.3	4.0
Traill (0)	1.5	2.3	2.3	2.0	1.3	1.7	4.0
M94-135066	1.6	2.0	2.5	2.3	2.0	1.3	5.0
M95-116011	1.6	2.0	2.5	2.0	1.3	1.3	5.0
ND98-1185	1.6	2.5	3.0	2.7	1.7	1.3	4.0
ND99-489	1.6	2.5	3.5	2.0	1.3	1.7	5.0
ND99-700	2.0	1.7	2.8	2.7	2.3	1.7	4.0
ND99-812	1.6	2.3	3.5	2.0	1.7	1.3	5.0
ND99-1298	1.7	2.3	3.3	2.3	1.3	1.3	5.0
ND99-1302	1.7	2.0	2.8	1.7	2.0	1.7	4.0
ND99-1318	1.8	2.7	3.3	2.7	1.3	1.3	5.0
ND99-2266	1.4	1.8	3.2	2.3	1.3	1.3	5.0
ND99-2311	1.6	2.3	2.3	2.3	1.0	1.3	4.0
ND99-3107	2.0	2.2	3.5	2.3	2.3	2.0	5.0
ND99-3300	2.0	2.3	3.0	2.7	1.7	2.0	4.0
ND99-3315	1.6	2.2	3.0	2.7	1.7	1.3	4.0
OAC 99-02	1.9	3.0	2.8	2.3	2.0	1.7	5.0
OAC 00-09	1.4	1.8	3.3	2.0	1.3	1.3	5.0
OAC 01-10	1.8	2.5	2.5	1.7	1.7	1.7	4.0
OAC 01-12	1.5	2.3	2.5	2.3	1.3	1.3	4.0
OAC 01-13	2.0	2.0	2.3	2.3	2.3	2.0	4.0
OT01-03	1.7	2.0	2.5	3.0	1.7	1.3	4.0
OT01-04	1.9	2.3	3.3	3.3	1.0	2.0	5.0
OT01-05	2.3	2.3	2.3	4.0	2.0	1.7	5.0

* Data not included in mean.

UNIFORM TEST 00, 2002

SEED QUALITY (score)

Strain	Casselton ND	Northwood ND	Beachburg Ont.	Elora Ont.	St. Bruno Montarville Que.
McCall (00)			1.7	1.5	1.0
Jim			1.0	1.0	1.0
Glacier			1.7	1.0	1.0
Traill (0)			1.7	1.0	1.5
M94-135066			1.7	1.5	1.0
M95-116011			2.0	1.5	1.5
ND98-1185			2.0	1.0	1.0
ND99-489			1.3	1.5	1.5
ND99-700			2.7	1.5	1.0
ND99-812			1.3	1.5	2.0
ND99-1298			2.3	1.5	1.5
ND99-1302			2.0	1.5	1.5
ND99-1318			2.3	1.5	1.5
ND99-2266			1.0	1.5	1.0
ND99-2311			1.7	1.5	2.0
ND99-3107			2.0	1.5	2.0
ND99-3300			2.0	1.5	2.0
ND99-3315			1.7	1.5	1.0
OAC 99-02			3.0	1.5	1.0
OAC 00-09			2.0	1.0	1.0
OAC 01-10			3.0	1.5	1.0
OAC 01-12			1.3	1.0	1.5
OAC 01-13			2.7	1.5	1.0
OT01-03			1.7	1.5	1.0
OT01-04			1.3	1.5	2.0
OT01-05			2.3	2.0	2.0

UNIFORM TEST 00, 2002

PROTEIN (%)

Strain	Mean 5 Tests	Moorhead MN	Shelly MN	Casselton ND	Beachburg Ont.	Elora Ont.
McCall (00)	39.6	38.9	40.4	40.4	37.9	40.6
Jim	40.9	40.6	41.1	41.1	39.8	41.9
Glacier	41.7	42.5	41.9	40.5	40.5	42.9
Traill (0)	41.7	42.5	41.5	41.8	39.8	42.9
M94-135066	40.4	39.4	42.9	40.0	37.9	41.6
M95-116011	40.9	40.2	41.5	40.6	40.2	42.3
ND98-1185	39.6	38.9	38.3	41.5	38.5	40.6
ND99-489	42.5	42.5	41.3	42.5	40.9	45.1
ND99-700	39.2	37.9	39.5	39.6	38.7	40.6
ND99-812	40.6	39.7	40.9	41.0	39.0	42.5
ND99-1298	40.0	39.6	39.0	40.4	39.0	42.2
ND99-1302	40.1	39.3	39.9	40.8	39.0	41.5
ND99-1318	40.9	41.0	40.4	41.4	39.3	42.7
ND99-2266	40.8	40.4	41.8	41.3	38.4	41.9
ND99-2311	41.1	40.9	41.0	40.8	39.9	43.0
ND99-3107	40.0	40.1	38.4	42.7	37.9	41.0
ND99-3300	41.1	41.2	41.3	41.5	38.0	43.3
ND99-3315	42.3	42.9	42.7	43.3	39.7	42.8
OAC 99-02	40.5	40.3	39.7	42.5	37.5	42.7
OAC 00-09	40.7	41.3	40.1	40.5	39.2	42.2
OAC 01-10	40.5	40.9	39.3	41.8	38.7	42.0
OAC 01-12	39.2	38.6	37.7	39.6	38.2	42.0
OAC 01-13	40.5	39.5	40.2	40.8	39.5	42.4
OT01-03	40.7	41.3	40.7	40.7	37.8	43.2
OT01-04	39.5	40.1	39.3	40.4	37.2	40.5
OT01-05	41.6	41.5	41.4	43.5	38.2	43.5

UNIFORM TEST 00, 2002

OIL (%)

Strain	Mean 5 Tests	Moorhead MN	Shelly MN	Casselton ND	Beachburg Ont.	Elora Ont.
McCall (00)	19.7	17.6	17.7	19.4	22.9	20.8
Jim	18.9	17.7	17.0	17.8	21.7	20.2
Glacier	19.0	17.5	17.7	18.3	21.4	19.9
Traill (0)	19.6	17.9	18.4	18.5	22.9	20.4
M94-135066	20.5	18.7	18.0	19.8	24.5	21.5
M95-116011	19.5	18.3	18.2	18.3	22.0	20.6
ND98-1185	20.1	19.2	19.0	18.1	22.9	21.3
ND99-489	19.2	17.5	17.5	18.4	22.9	19.4
ND99-700	20.1	19.0	17.8	19.2	23.2	21.4
ND99-812	20.6	19.6	18.8	19.5	23.7	21.1
ND99-1298	20.5	19.2	19.3	19.6	23.6	21.0
ND99-1302	20.9	19.6	19.5	19.9	23.8	21.6
ND99-1318	20.4	19.2	18.9	19.2	23.7	21.1
ND99-2266	19.2	17.7	16.7	18.1	23.1	20.4
ND99-2311	20.1	19.3	18.2	19.0	23.2	20.8
ND99-3107	19.4	18.1	17.5	18.7	22.4	20.4
ND99-3300	20.1	19.0	18.6	18.4	24.2	20.5
ND99-3315	20.2	18.8	18.7	19.1	23.4	21.0
OAC 99-02	20.6	18.9	19.3	18.8	24.3	21.8
OAC 00-09	19.7	18.0	18.4	18.7	22.6	20.8
OAC 01-10	20.2	18.4	18.3	19.4	23.5	21.3
OAC 01-12	20.2	18.7	18.7	19.4	23.3	20.8
OAC 01-13	20.2	19.4	18.2	18.6	23.6	21.1
OT01-03	20.6	18.9	19.5	19.5	24.2	21.1
OT01-04	21.0	20.0	19.4	19.4	24.0	22.1
OT01-05	19.5	18.2	17.7	18.5	22.9	20.0

Uniform Test 0, 2002

Ent.	Strain	Parentage	Previous Testing	Generation Composited	Unique Traits
1	Lambert (0)	M75-274 x M76-151	14	F5	Rps1
2.	Parker (I)	A79-136012 x Dawson	11	F5	Rps1
3.	Surge (0)	A86-204022 x Kato	3	F5	
4.	Traill (E)	M82-996 x Sigco KG20	6	F5	
5.	MN0902CN (SCN)	Jack x Alpha	5	F5	SCN
6.	M92-185003	Archer x Glacier	2	F5	Rps1k, Rps6, Chl. Tol., BSR
7.	M92-285024	Sturdy x Evans	2	F5	Rps1a
8.	M95-123023	Parker x M92-1631	1	F4	SCN
9.	M95-210133	Harmony x Surge	PT0	F5	Rps1a
10.	M95-215050	M92-836 x MN1801	PTI	F5	Rps1a
11.	M96-140012	Lambert (3) x Marcus 95	PT0	F4	Rps6
12.	ND98-2252	SD92-1323 x M90-370	PT0	F5	Rps1c
13.	OAC 00-01	OAC Bayfield x (OT89-16 x OAC Shire)	PT0	F5	
14.	OAC 00-22	A92-525014 x (OT89-16 x OAC Shire)	PT0	F5	
15.	OAC 00-33	OAC Bayfield x (OT89-16 x OAC Shire)	PT0	F5	
16.	ORC 2001	Unknown	PT0	F5	
17.	ORC 2002	Jacques J-251 x Westag 97	PT0	F5	

UNIFORM TEST 0, 2002

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	Chlorosis Score Yellow Medicine Co. MN	Shattering Score Manhattan KS	St. Bruno Montarville, Que Green Stem Score	PR Lafayette Race 4	PR Lafayette Race 7
Lambert (0)	PGBSYLbfl	2.7	1.0	2.5	S	S
Parker (I)	WGBDYBfl	4.0	1.0	3.5	S	S
Surge (0)	PGBDYIbI	3.7	1.0	1.5	S	R
Traill (E)	PTBDYYI	3.7	1.0	1.0	H	S
MN0902CN (SCN)	WTTSYYI	4.0	1.0	1.5	H	S
M92-185003	PGTIYBfl	3.0	3.0	1.0	R	R
M92-285024	PGBIYIbI	3.7	2.0	1.5	S	S
M95-123023	P+WTT+BIYLbrI	5.0	2.0	1.5	S	S
M95-210133	WSBIYLbfl	3.0	1.0	1.0	H	S
M95-215050	WSBDYHI	3.0	1.0	2.0	H	S
M96-140012	PGBSYLbfl	4.3	2.0	1.5	S	S
ND98-2252	WSBDYBfl	3.7	2.0	2.5	S	R
OAC 00-01	WTBSYBrI	3.0	1.0	2.5	S	S
OAC 00-22	WTBIYBrI	3.3	3.0	2.0	S	S
OAC 00-33	PTBSYBrI	4.3	1.0	2.0	S	S
ORC 2001	PTBIYBll	4.7	1.0	2.0	R	S
ORC 2002	PTTIYBrI	5.0	1.0	1.5	R	S

UNIFORM TEST 0, 2002

REGIONAL SUMMARY

No. of Tests Strain	Yield 9 bu/a	Rank 9 No.	Maturity 9 Date	Lodging 9 Score	Plant Height 9 In.	Seed Size 9 g/100	Seed Quality 8 Score	Composition Protein 5 %	Composition Oil 5 %
Lambert (0)	46.2	10	9/15	1.5	32	17.6	2.2	41.7	19.6
Parker (I)	49.7	2	7.9	1.9	38	18.2	2.0	40.7	19.4
Surge (0)	48.3	6	1.5	1.3	32	20.2	2.1	41.5	19.6
Traill (E)	41.3	17	-9.3	1.5	29	16.5	2.0	41.9	18.7
MN0902CN (SCN)	44.1	13	-1.2	1.5	32	14.3	1.9	41.8	18.5
M92-185003	43.0	15	-5.5	1.6	32	17.0	2.7	40.3	19.3
M92-285024	43.9	14	-2.4	1.7	37	17.0	2.5	39.9	19.3
M95-123023	46.4	8	0.0	1.5	34	18.1	2.6	40.0	20.1
M95-210133	42.7	16	-1.8	1.2	30	15.9	2.4	40.4	19.5
M95-215050	49.1	3	4.7	1.5	34	17.3	2.4	42.7	18.9
M96-140012	46.6	7	2.8	1.6	35	17.5	2.3	41.4	19.6
ND98-2252	46.0	11	-0.6	1.3	31	16.4	2.7	40.3	18.9
OAC 00-01	45.7	12	-4.4	1.3	31	17.2	2.0	40.6	19.3
OAC 00-22	46.3	9	1.1	1.3	34	16.1	2.2	40.3	18.7
OAC 00-33	48.7	4	1.4	1.3	32	18.1	2.0	39.2	19.7
ORC 2001	53.4	1	3.8	1.4	31	17.3	1.6	39.9	19.5
ORC 2002	48.4	5	0.4	1.3	32	19.0	2.0	41.8	19.0

120.1 Days After Planting

UNIFORM TEST 0, 2002

2001-2002 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	Seed Quality 14 Score	Composition Protein 10 %	 Oil 10 %
Lambert (0)	41.8	3	9/15	1.4	30	16.3	2.1	41.0	20.6
Parker (I)	44.6	1	9.5	2.0	35	17.9	1.9	40.4	20.0
Surge (0)	42.2	2	3.3	1.3	29	19.5	2.1	41.7	20.1
Traill (E)	34.4	8	-7.8	1.4	27	15.5	2.0	41.4	19.9
MN0902CN (SCN)	37.5	6	1.1	1.5	30	13.7	1.8	41.8	19.1
M92-185003	37.5	6	-4.7	1.5	29	16.1	2.4	40.1	20.3
M92-285024	41.3	4	-0.4	1.8	35	16.5	2.0	39.8	20.0
M95-123023	40.6	5	1.6	1.3	31	17.0	2.3	39.7	20.8

121.1 Days After Planting

2000-2002 3-YEAR MEAN

No. of Tests Strain	Yield 25 bu/a	Rank 25 No.	Maturity 26 Date	Lodging 26 Score	Plant Height 26 In.	Seed Size 26 g/100	Seed Quality Score	Composition Protein 15 %	 Oil 15 %
Lambert (0)	43.3	3	9/17	1.4	30	16.3		41.1	20.7
Parker (I)	45.5	1	8.3	1.8	35	17.5		40.7	20.0
Surge (0)	44.2	2	2.9	1.2	29	19.4		42.0	20.0
Traill (E)	35.6	7	-7.0	1.4	27	15.9		41.8	19.7
MN0902CN (SCN)	39.5	5	0.6	1.4	30	14.0		42.3	19.0
M92-185003	38.7	6	-4.4	1.4	29	16.4		40.5	20.3
M92-285024	43.2	4	0.2	1.7	35	16.6		40.0	19.9

123.0 Days After Planting

UNIFORM TEST 0, 2002

YIELD (bu/a)

Strain	Mean 9 Tests	Fayetteville* irrigated AR	Rohwer* irrigated AR	Morris MN	Rosemount MN	Portageville* (Loam) MO	Casselton ND
Lambert (0)	46.2	59.8	16.8	44.5	59.4	12.1	43.8
Parker (I)	49.7	45.8	18.8	51.6	60.4	15.4	56.7
Surge (0)	48.3	60.0	19.1	51.9	57.1	14.2	60.4
Traill (E)	41.3	57.7	7.4	40.0	48.5	6.3	43.4
MN0902CN (SCN)	44.1	64.2	6.9	47.3	55.0	9.5	46.9
M92-185003	43.0	62.3	15.8	42.3	49.2	12.5	50.4
M92-285024	43.9	72.6	23.8	46.5	57.1	11.5	33.2
M95-123023	46.4	65.5	18.4	52.2	54.3	13.8	52.6
M95-210133	42.7	55.7	14.6	47.0	48.3	11.7	53.9
M95-215050	49.1	54.2	13.9	51.7	59.9	14.6	60.3
M96-140012	46.6	67.0	19.9	48.1	57.7	9.1	49.4
ND98-2252	46.0	60.0	11.7	46.8	58.0	10.4	49.9
OAC 00-01	45.7	69.2	13.5	46.5	53.5	9.1	54.0
OAC 00-22	46.3	69.3	14.2	51.2	57.4	12.2	50.8
OAC 00-33	48.7	69.7	17.6	53.6	60.7	17.2	52.5
ORC 2001	53.4	69.4	16.9	53.9	63.9	21.8	61.8
ORC 2002	48.4	59.9	30.4	48.0	54.4	20.5	60.9
C.V. (%)		13.0	19.3	7.6	7.1	16.0	16.5
L.S.D. (5%)		14.4	5.8	6.1	6.7	2.9	13.7
Row Sp. (In.)		7.5	7.5	10	10	7.5	30
Rows/Plot		7	9	10	10	6	4
Reps		3	3	3	3	3	3

* Data not included in mean.

UNIFORM TEST 0, 2002

YIELD (bu/a)

Strain	Ottawa Ont	Woodstock Ont	St. Bruno Que.	Brookings SD	Watertown SD	Arlington WI
Lambert (0)	49.2	54.5	36.2	36.7	27.8	63.3
Parker (I)	51.1	60.9	35.2	37.5	31.8	62.1
Surge (0)	43.4	59.3	33.4	33.2	29.3	66.5
Traill (E)	40.0	53.4	27.2	36.9	31.7	50.8
MN0902CN (SCN)	44.9	58.6	33.3	29.6	23.7	57.8
M92-185003	42.9	59.7	30.4	25.4	27.2	59.7
M92-285024	47.9	62.8	32.3	32.7	27.0	56.1
M95-123023	40.4	60.6	28.5	34.5	35.3	59.4
M95-210133	40.3	52.1	27.8	30.7	27.8	56.5
M95-215050	47.8	63.2	34.4	33.7	27.9	62.9
M96-140012	45.6	57.6	33.4	32.8	30.9	63.8
ND98-2252	41.2	64.7	31.2	35.3	25.8	61.5
OAC 00-01	47.5	62.5	29.3	33.1	25.6	59.4
OAC 00-22	48.0	61.8	30.7	25.6	21.9	69.7
OAC 00-33	48.0	61.3	30.7	35.0	29.4	66.8
ORC 2001	50.1	67.3	38.7	38.2	37.1	69.3
ORC 2002	45.9	62.3	39.9	32.6	28.7	63.0
C.V. (%)	5.4	5.75	5.3	13.6	13.5	6.8
L.S.D. (5%)	2.9	5.5	3.5	7.2	6.4	5.8
Row Sp. (In.)	16	14	7	30	30	15
Rows/Plot	4	4	5	4	4	7.5
Reps	3	3	2	3	3	3

UNIFORM TEST 0, 2002

YIELD RANK

Strain	Yield Rank	Fayetteville* irrigated AR	Rohwer* irrigated AR	Morris MN	Rosemount MN	Portageville* (Loam) MO	Casselton ND
Lambert (0)	10	13	9	15	5	10	15
Parker (I)	2	17	5	6	3	4	5
Surge (0)	6	10	4	4	9	6	3
Traill (E)	17	14	16	17	16	17	16
MN0902CN (SCN)	13	8	17	10	11	14	14
M92-185003	15	9	10	16	15	8	11
M92-285024	14	1	2	13	9	12	17
M95-123023	8	7	6	3	13	7	8
M95-210133	16	15	11	11	17	11	7
M95-215050	3	16	13	5	4	5	4
M96-140012	7	6	3	8	7	15	13
ND98-2252	11	10	15	12	6	13	12
OAC 00-01	12	5	14	13	14	15	6
OAC 00-22	9	4	12	7	8	9	10
OAC 00-33	4	2	7	2	2	3	9
ORC 2001	1	3	8	1	1	1	1
ORC 2002	5	12	1	9	12	2	2

* Data not included in mean.

UNIFORM TEST 0, 2002

YIELD RANK

Strain	Ottawa Ont	Woodstock Ont	St. Bruno Que.	Brookings SD	Watertown SD	Arlington WI
Lambert (0)	3	15	3	4	10	6
Parker (I)	1	9	4	2	3	9
Surge (0)	12	12	6	9	7	4
Traill (E)	17	16	17	3	4	17
MN0902CN (SCN)	11	13	8	15	16	14
M92-185003	13	11	13	17	12	11
M92-285024	6	4	9	12	13	16
M95-123023	15	10	15	7	2	12
M95-210133	16	17	16	14	11	15
M95-215050	7	3	5	8	9	8
M96-140012	10	14	7	11	5	5
ND98-2252	14	2	10	5	14	10
OAC 00-01	8	5	14	10	15	12
OAC 00-22	5	7	11	16	17	1
OAC 00-33	4	8	12	6	6	3
ORC 2001	2	1	2	1	1	2
ORC 2002	9	6	1	13	8	7

UNIFORM TEST 0, 2002

MATURITY (date)

Strain	Mean 9 Tests	Fayetteville* irrigated AR	Rohwer* irrigated AR	Morris MN	Rosemount MN	Portageville* (Loam) MO	Casselton ND
Lambert (0)	9/15	8/5	7/5	9/17	9/12	7/16	9/25
Parker (I)	7.9	4	4	8	12	7	10
Surge (0)	1.5	-1	1	1	6	5	11
Traill (E)	-9.3	-5	-1	-6	-5	-3	-11
MN0902CN (SCN)	-1.2	-5	-1	1	0	3	-1
M92-185003	-5.5	-2	0	-2	-1	1	-3
M92-285024	-2.4	1	3	0	4	2	-3
M95-123023	0.0	0	1	1	3	4	-1
M95-210133	-1.8	-1	1	-5	-2	1	-2
M95-215050	4.7	-3	2	4	8	6	4
M96-140012	2.8	-1	3	2	7	2	2
ND98-2252	-0.6	-2	0	-1	1	0	3
OAC 00-01	-4.4	-2	1	-1	-2	1	-5
OAC 00-22	1.1	-1	1	2	0	6	1
OAC 00-33	1.4	7	3	2	9	13	5
ORC 2001	3.8	4	4	3	9	14	8
ORC 2002	0.4	0	4	0	2	12	6
Date Planted	5/18	4/25	4/16	5/22	5/22	4/19	5/16
Days to Mature	120	102	80	118	113	88	132

* Data not included in mean.

UNIFORM TEST 0, 2002

MATURITY (date)

Strain	Ottawa Ont	Woodstock Ont	St. Bruno Que.	Brookings SD	Watertown SD	Arlington WI
Lambert (0)	9/16	9/15	9/27	9/7	9/10	9/10
Parker (I)	7	7	5	5	7	10
Surge (0)	-2	1	0	3	-4	-3
Traill (E)	-10	-5	-13	-7	-13	-13
MN0902CN (SCN)	-1	-2	-2	2	-2	-6
M92-185003	-5	-3	-12	-3	-11	-9
M92-285024	-4	-1	-3	2	-9	-7
M95-123023	-3	1	-1	3	-2	-1
M95-210133	-3	-2	-7	0	6	-1
M95-215050	5	2	2	4	6	7
M96-140012	4	2	0	4	3	1
ND98-2252	-3	0	-1	-2	-1	-1
OAC 00-01	-5	-4	-6	-1	-9	-6
OAC 00-22	1	0	-1	0	6	1
OAC 00-33	0	1	-6	0	5	-3
ORC 2001	2	3	1	3	6	-1
ORC 2002	-2	0	-4	3	2	-4
Date Planted	5/22	6/3	5/20	5/14	5/14	5/1
Days to Mature	117	104	130	116	119	132

UNIFORM TEST 0, 2002

LODGING (score)

Strain	Mean 9 Tests	Fayetteville* irrigated AR	Rohwer* irrigated AR	Morris MN	Rosemount MN	Portageville* (Loam) MO	Casselton ND
Lambert (0)	1.5	1.0	1.0	3.3	1.7	1.0	1.0
Parker (I)	1.9	2.0	1.0	4.0	3.0	1.0	1.0
Surge (0)	1.3	1.0	1.0	2.0	1.3	1.0	1.0
Traill (E)	1.5	1.0	1.0	3.0	1.7	1.0	1.0
MN0902CN (SCN)	1.5	1.0	1.0	2.7	1.7	1.0	1.0
M92-185003	1.6	1.0	1.0	3.3	1.7	1.0	1.0
M92-285024	1.7	2.0	1.0	4.0	2.0	1.0	1.0
M95-123023	1.5	1.0	1.0	2.3	2.0	1.0	1.0
M95-210133	1.2	1.0	1.0	2.0	1.0	1.0	1.0
M95-215050	1.5	1.0	1.0	2.7	1.7	1.2	1.0
M96-140012	1.6	1.0	1.0	3.0	2.3	1.0	1.0
ND98-2252	1.3	1.0	1.0	2.7	1.0	1.0	1.0
OAC 00-01	1.3	1.0	1.0	2.0	1.0	1.0	1.0
OAC 00-22	1.3	1.0	1.0	2.0	1.0	1.0	1.0
OAC 00-33	1.3	1.0	1.0	2.0	1.3	1.2	1.0
ORC 2001	1.4	1.0	1.0	2.0	1.7	1.0	1.0
ORC 2002	1.3	1.0	1.0	2.0	1.3	1.0	1.0

* Data not included in mean.

UNIFORM TEST 0, 2002

LODGING (score)

Strain	Ottawa Ont	Woodstock Ont	St. Bruno Que.	Brookings SD	Watertown SD	Arlington WI
Lambert (0)	1.0	2.0	1.0	1.0	1.0	1.7
Parker (I)	1.5	3.0	1.0	1.0	1.0	2.0
Surge (0)	1.0	2.0	1.0	1.0	1.0	1.0
Traill (E)	1.0	2.0	1.0	1.0	1.0	2.0
MN0902CN (SCN)	1.0	2.0	1.0	1.0	1.0	2.3
M92-185003	1.0	2.0	1.0	1.0	1.0	2.0
M92-285024	1.0	2.0	1.0	1.0	1.0	2.7
M95-123023	1.0	2.0	1.0	1.0	1.0	2.0
M95-210133	1.0	1.5	1.0	1.0	1.0	1.0
M95-215050	1.0	2.0	1.0	1.0	1.0	2.0
M96-140012	1.0	2.5	1.0	1.0	1.0	2.0
ND98-2252	1.0	2.0	1.0	1.0	1.0	1.0
OAC 00-01	1.0	1.5	1.0	1.0	1.0	2.0
OAC 00-22	1.0	2.0	1.0	1.0	1.0	1.7
OAC 00-33	1.0	1.0	1.0	1.0	1.0	2.0
ORC 2001	1.0	2.0	1.0	1.0	1.0	1.7
ORC 2002	1.0	1.5	1.0	1.0	1.0	2.3

UNIFORM TEST 0, 2002

PLANT HEIGHT (inches)

Strain	Mean 9 Tests	Fayetteville* irrigated AR	Rohwer* irrigated AR	Morris MN	Rosemount MN	Portageville* (Loam) MO	Casselton ND
Lambert (0)	32	23	10	43	45	9	30
Parker (I)	38	30	13	46	49	11	34
Surge (0)	32	24	10	39	41	11	34
Traill (E)	29	20	9	37	41	9	27
MN0902CN (SCN)	32	23	8	38	40	10	31
M92-185003	32	23	12	42	46	11	29
M92-285024	37	27	13	48	50	7	33
M95-123023	34	25	13	44	47	10	33
M95-210133	30	22	10	40	42	9	30
M95-215050	34	21	11	41	45	11	35
M96-140012	35	24	11	47	49	10	30
ND98-2252	31	21	9	41	44	10	27
OAC 00-01	31	24	12	40	42	9	31
OAC 00-22	34	23	11	44	47	11	32
OAC 00-33	32	24	12	39	41	13	32
ORC 2001	31	24	12	37	40	13	32
ORC 2002	32	22	13	38	40	12	31

* Data not included in mean.

UNIFORM TEST 0, 2002

PLANT HEIGHT (inches)

Strain	Ottawa Ont	Woodstock Ont	St. Bruno Que.	Brookings SD	Watertown SD	Arlington WI
Lambert (0)	31	34	28	20	24	32
Parker (I)	36	40	33	32	32	39
Surge (0)	31	34	32	23	21	31
Traill (E)	28	29	28	20	24	26
MN0902CN (SCN)	32	32	30	26	24	32
M92-185003	31	31	31	25	22	30
M92-285024	36	38	34	28	24	38
M95-123023	31	36	32	26	24	30
M95-210133	26	30	29	20	22	27
M95-215050	34	35	31	24	26	34
M96-140012	34	37	32	25	24	36
ND98-2252	31	34	30	24	20	31
OAC 00-01	30	32	30	24	24	29
OAC 00-22	32	37	30	26	23	36
OAC 00-33	33	32	31	26	26	32
ORC 2001	31	36	30	24	22	32
ORC 2002	31	36	35	23	18	32

UNIFORM TEST 0, 2002

SEED SIZE (g/100)

Strain	Mean 9 Tests	Fayetteville* irrigated AR	Rohwer* irrigated AR	Morris MN	Rosemount MN	Portageville* (Loam) MO	Casselton ND
Lambert (0)	17.6	14.1	11.9	18.4	16.8	13.8	18.4
Parker (I)	18.2	16.4	14.4	14.2	17.3	15.4	19.1
Surge (0)	20.2	18.7	14.4	21.6	20.6	16.7	19.0
Traill (E)	16.5	14.9	12.0	15.8	15.3	13.4	16.9
MN0902CN (SCN)	14.3	13.2	10.9	14.9	12.5	12.0	15.8
M92-185003	17.0	17.4	12.8	17.4	16.3	14.6	18.6
M92-285024	17.0	16.5	14.9	17.0	15.9	14.6	
M95-123023	18.1	16.5	13.3	18.3	16.8	14.6	20.0
M95-210133	15.9	13.2	12.8	14.9	13.8	12.8	18.8
M95-215050	17.3	13.9	12.7	17.0	16.7	15.0	18.1
M96-140012	17.5	15.7	12.6	17.6	16.8	14.8	19.0
ND98-2252	16.4	15.5	12.9	16.3	15.1	14.0	17.4
OAC 00-01	17.2	16.6	12.9	17.1	16.3	16.1	19.3
OAC 00-22	16.1	15.2	10.6	16.0	14.9	14.0	16.8
OAC 00-33	18.1	15.5	13.8	19.2	17.5	16.0	20.6
ORC 2001	17.3	14.2	11.6	17.8	16.9	13.3	17.8
ORC 2002	19.0	17.7	15.2	18.3	17.0	14.6	21.1

* Data not included in mean.

UNIFORM TEST 0, 2002

SEED SIZE (g/100)

Strain	Ottawa Ont	Woodstock Ont	St. Bruno Que.	Brookings SD	Watertown SD	Arlington WI
Lambert (0)	17.3	17.4	16.5	18.7	18.2	16.8
Parker (I)	19.6	18.7	17.3	19.4	21.1	16.8
Surge (0)	20.3	21.8	19.9	19.4	20.4	19.3
Traill (E)	16.6	16.1	16.2	19.3	16.1	16.5
MN0902CN (SCN)	14.9	15.2	13.4	13.3	15.4	13.6
M92-185003	15.8	18.9	16.5	16.9	16.7	15.9
M92-285024	17.0	18.0	16.1	18.2	17.7	16.2
M95-123023	17.3	19.6	17.1	17.9	19.7	16.4
M95-210133	15.9	15.9	15.2	17.0	16.8	15.0
M95-215050	18.0	17.3	16.9	17.8	17.5	16.6
M96-140012	16.8	17.6	16.2	18.1	18.4	16.9
ND98-2252	16.9	17.3	15.9	15.7	17.1	15.8
OAC 00-01	16.6	17.5	16.8	17.6	16.6	17.0
OAC 00-22	16.9	16.1	15.0	17.4	16.9	14.7
OAC 00-33	19.0	18.5	18.1	15.3	18.0	17.1
ORC 2001	17.6	17.8	16.9	16.1	19.3	15.5
ORC 2002	20.4	18.4	19.1	19.5	19.6	17.5

UNIFORM TEST 0, 2002

SEED QUALITY (score)

Strain	Mean 8 Tests	Fayetteville* irrigated AR	Rohwer* irrigated AR	Morris MN	Rosemount MN	Portageville* (Loam) MO	Casselton ND
Lambert (0)	2.2	2.2	3.2	1.3	2.3	5.0	
Parker (I)	2.0	3.0	3.5	1.7	3.0	5.0	
Surge (0)	2.1	2.5	2.8	2.0	2.7	5.0	
Traill (E)	2.0	1.8	1.7	2.3	1.7	4.0	
MN0902CN (SCN)	1.9	1.5	2.2	1.7	2.3	3.0	
M92-185003	2.7	2.3	2.8	2.3	3.3	4.0	
M92-285024	2.5	2.0	3.3	2.7	3.7	5.0	
M95-123023	2.6	2.2	3.2	2.3	3.3	5.0	
M95-210133	2.4	1.8	2.5	2.0	2.7	4.0	
M95-215050	2.4	2.0	3.3	2.0	3.3	4.3	
M96-140012	2.3	2.5	3.0	2.0	3.3	5.0	
ND98-2252	2.7	2.2	2.7	2.3	3.7	3.0	
OAC 00-01	2.0	2.2	2.3	2.0	2.3	4.0	
OAC 00-22	2.2	2.2	3.0	2.3	3.3	5.0	
OAC 00-33	2.0	3.5	2.8	2.0	2.0	4.0	
ORC 2001	1.6	2.3	3.0	1.7	1.7	5.0	
ORC 2002	2.0	3.7	3.8	2.0	2.0	5.0	

* Data not included in mean.

UNIFORM TEST 0, 2002

SEED QUALITY (score)

Strain	Ottawa Ont	Woodstock Ont	St. Bruno Que.	Brookings SD	Watertown SD	Arlington WI
Lambert (0)	1.7	1.5	2.0	3.0	3.0	2.7
Parker (I)	1.0	1.0	2.0	3.0	2.0	2.7
Surge (0)	2.0	1.0	1.0	3.0	2.0	3.3
Traill (E)	1.7	1.5	1.0	3.0	2.0	2.7
MN0902CN (SCN)	1.3	1.0	1.5	3.0	2.0	2.3
M92-185003	3.0	2.0	2.0	3.0	3.0	3.3
M92-285024	2.3	1.5	1.5	3.0	2.0	3.0
M95-123023	2.3	1.5	2.0	3.0	3.0	3.0
M95-210133	3.0	1.5	1.5	3.0	2.0	3.3
M95-215050	2.7	1.5	2.0	2.0	2.0	3.3
M96-140012	2.0	1.5	1.0	2.0	3.0	3.7
ND98-2252	3.3	2.5	3.0	2.0	2.0	3.0
OAC 00-01	1.7	1.5	1.0	3.0	2.0	2.7
OAC 00-22	2.0	1.5	1.5	2.0	2.0	3.3
OAC 00-33	2.0	2.0	1.0	2.0	2.0	3.3
ORC 2001	1.0	1.0	1.0	2.0	2.0	2.7
ORC 2002	1.7	1.0	1.0	3.0	2.0	3.0

UNIFORM TEST 0, 2002

PROTEIN (%)

Strain	Mean 5 Tests	Morris MN	Rosemount MN	Casselton ND	Woodstock Ont.	Brookings SD
Lambert (0)	41.7	40.1	40.6	40.9	43.3	43.6
Parker (I)	40.7	40.5	39.1	39.5	42.5	42.0
Surge (0)	41.5	41.6	39.3	39.8	44.1	42.5
Traill (E)	41.9	41.4	40.0	41.0	43.1	44.3
MN0902CN (SCN)	41.8	41.9	39.3	43.0	44.0	41.0
M92-185003	40.3	40.4	38.7	40.8	41.1	40.5
M92-285024	39.9	39.0	38.8		41.5	40.4
M95-123023	40.0	39.1	40.8	39.0	39.8	41.3
M95-210133	40.4	37.9	39.2	41.0	42.3	41.6
M95-215050	42.7	42.1	41.2	43.1	44.2	43.0
M96-140012	41.4	40.9	40.4	41.0	43.7	41.1
ND98-2252	40.3	39.2	40.2	40.0	40.6	41.2
OAC 00-01	40.6	39.3	38.2	41.2	42.5	41.9
OAC 00-22	40.3	38.8	38.4	41.9	41.9	40.7
OAC 00-33	39.2	38.6	38.3	38.8	40.7	39.5
ORC 2001	39.9	38.6	37.2	39.7	42.8	41.4
ORC 2002	41.8	40.6	41.0	41.3	43.8	42.1

UNIFORM TEST 0, 2002

OIL (%)

Strain	Mean 5 Tests	Morris MN	Rosemount MN	Casselton ND	Woodstock Ont.	Brookings SD
Lambert (0)	19.6	19.7	19.2	19.4	20.9	18.9
Parker (I)	19.4	19.3	19.1	18.9	20.5	19.0
Surge (0)	19.6	19.7	19.7	19.3	20.7	18.8
Traill (E)	18.7	18.2	18.1	19.2	20.2	17.6
MN0902CN (SCN)	18.5	18.3	17.6	17.9	20.1	18.7
M92-185003	19.3	18.1	18.8	19.3	21.5	18.8
M92-285024	19.3	19.0	18.2		20.7	19.3
M95-123023	20.1	20.0	19.0	20.5	22.3	18.8
M95-210133	19.5	19.4	19.4	19.3	20.9	18.8
M95-215050	18.9	18.7	18.5	18.7	20.1	18.4
M96-140012	19.6	19.3	19.0	19.6	20.4	19.8
ND98-2252	18.9	18.3	18.0	18.8	20.7	18.9
OAC 00-01	19.3	18.0	18.8	19.9	21.0	18.7
OAC 00-22	18.7	18.7	18.4	18.3	20.5	17.5
OAC 00-33	19.7	19.9	19.1	18.7	21.6	19.1
ORC 2001	19.5	18.5	18.5	18.8	21.2	20.3
ORC 2002	19.0	18.7	18.1	19.1	20.2	18.9

Preliminary Test 0, 2002

Ent.	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.	M95-116024	Glacier X Northrup King S19-90	F4	W-Mold
6.	M96-323011	OAC95-01 X Agassiz	F5	Early
7.	M96-323087	OAC95-01 X Agassiz	F5	Early
8.	M96-355009	M91-116124 X MN1301	F5	SCN+Rps1-k
9.	M96-356055	M92-674 X M92-1708	F5	SCN+Rps1
10.	M96-356062	M92-674 X M92-1708	F5	SCN+Rps1
11.	M96-373013	M92-623 X M91-947	F4	Rps1
12.	M96-376023	MN0901 X M91-1416	F5	Yield
13.	M96-393101	D-138 X Lambert	F4	Rps1
14.	M96-402043	M88-302032 X Lambert	F4	Rps1
15.	M96-403029	MN0901 X M91-113037	F5	Rps1-k
16.	OAC 01-15	OAC Bayfield x OAC Millennium	F5	
17.	OAC 01-17	OAC 96-07 x ND(M)90-370	F5	
18.	OAC 01-25	OAC Bright x (Pride Seeds PS42 x M86-571)	F5	
19.	OAC 01-26	(OT89-18 x OAC Shire) x M91-821	F5	
20.	OAC 01-31	OAC 96-07 x M91-821	F5	
21.	ORC 0102	RCAT Bobcat x SW33-08	F5	
22.	ORC 0103	RCAT Bobcat x SW33-08	F5	
23.	ND99-0408	SL91-564 x Pioneer P9092	F4	Rps1c
24.	ND99-0413	SL91-564 x Pioneer P9092	F4	Rps1c
25.	ND99-0422	SL91-564 x Pioneer P9092	F4	Rps1c
26.	ND99-1002	SD92-1323 x Jim	F4	Rps1c
27.	ND99-2066	SL91-564 x ND93-5849	F4	Rps4
28.	ND99-2084	SL91-564 x ND93-5849	F4	Rps4
29.	ND99-2087	SL91-564 x ND93-5849	F4	Rps4
30.	ND99-2144	SL91-564 x Pioneer P9092	F4	Rps1c
31.	ND99-2156	SL91-564 x Pioneer P9092	F4	Rps1c
32.	ND99-2169	SL91-564 x Pioneer P9092	F4	Rps1c
33.	ND99-2404	SL91-895 x ND93-5849	F4	Rps4
34.	ND99-2608	SL91-564 x Pioneer P9092	F4	Rps1c
35.	ND99-2614	SL91-564 x Pioneer P9092	F4	Rps1c
36.	ND99-2621	SL91-564 x Pioneer P9092	F4	Rps1c
37.	SD99-700	SD93-954 x Elgin 87	F5	Rps1-k
38.	SD99-548	Ozzie x Hendricks	F5	Rps1-a
39.	SD99-1358	SD(M)93-256 x (OT91-3 x Hendricks)	F5	Rps1-a
40.	SD99-3560	(Stride x PI561279) x Hendricks	F5	Rps1-a
41.	SD99-5017	M92-88 x C1939	F5	Seg. Rps1-c

PRELIMINARY TEST 0, 2002

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	Chlorosis Score Yellow Medicine Co. MN	St. Bruno Montarville, Que Green Stem Score	Shattering Score Manhattan KS	PR Lafayette Race 4	PR Lafayette Race 7
Lambert (0)	PGBSYLbfl	3.3	1.0	2.0	S	S
Parker (I)	WGBDYBfl	4.0	3.0	1.0	S	S
Surge	PGBDYIbI	3.7	1.5	2.0	S	R
Traill (E)	PTBDYYI	3.7	1.0	1.0	H	R
M95-116024	PTBDYYI	3.0	1.0	2.0	R	R
M96-323011	WGBDYBfl	4.0	3.0	2.0	S	S
M96-323087	PTBIYBrI	4.3	2.5	3.0	S	S
M96-355009	WGBDYYI	3.7	2.0	1.0	R	R
M96-356055	PGBDYIbI	3.7	1.5	2.0	S	S
M96-356062	PSBIYIbI	4.3	1.5	2.0	H	H
M96-373013	WGBDYBfl	3.3	1.5	1.0	S	S
M96-376023	PGTIYBfl	3.0	1.5	2.0	S	S
M96-393101	PGBSYHI	3.3	1.5	2.0	S	S
M96-402043	PGBIYBfl	4.3	2.0	1.0	H	H
M96-403029	WGBDYYI	5.0	1.5	1.0	R	R
OAC 01-15	PTBIYBrI	4.7	1.5	4.0	S	S
OAC 01-17	WTBDYYI	2.7	2.0	1.0	S	S
OAC 01-25	PTBIYYI	3.7	1.5	2.0	S	R
OAC 01-26	PGBIYYI	4.3	1.5	2.0	S	S
OAC 01-31	WTBIYLgrI	4.7	3.0	3.0	S	H
ORC 0102	PTTSYYI	3.3	3.0	2.0	S	S
ORC 0103	PTBSYYI	3.3	1.0	2.0	S	S
ND99-0408	PGBDYHI	3.7	1.0	1.0	S	R
ND99-0413	PGSDYGrI	4.7	2.0	2.0	H	R
ND99-0422	PGBIYHI	4.3	1.5	1.0	S	R
ND99-1002	P+WTBDYHI	2.7	2.0	2.0	S	R
ND99-2066	P+WGBIYYI	3.0	1.5	3.0	S	S
ND99-2084	PGBDYYI	3.3	1.0	2.0	S	S
ND99-2087	PSBDYYI	3.0	1.0	3.0	S	S
ND99-2144	PGTDYYI	4.0	1.5	2.0	S	R
ND99-2156	PGTDYYI	4.3	1.0	2.0	S	H
ND99-2169	PGTDYYI	4.0	1.5	2.0	S	R
ND99-2404	PSBIYLbfl	3.0	1.0	1.0	S	S
ND99-2608	PGBDYYI	4.3	1.5	1.0	S	R
ND99-2614	PGTDYYI	4.3	1.5	3.0	S	S
ND99-2621	PGBDYLGrI	4.0	1.0	1.0	S	R
SD99-700	WTBDYBII	3.7	2.0	1.0	R	R
SD99-548	PGBDYYI	3.0	2.0	1.0	S	R
SD99-1358	PGBDYIbI	3.7	2.0	1.0	S	R
SD99-3560	PTBDYYI	4.3	1.5	1.0	H	H
SD99-5017	PTBIYBII	4.3	1.0	2.0	H	R

PRELIMINARY TEST 0, 2002

REGIONAL SUMMARY

No. of Tests Strain	Yield 8 bu/a	Rank 8 No.	Maturity 8 Date	Lodging 8 Score	Plant Height 8 In.	Seed Size 8 g/100	Seed Quality 7 Score	Composition Protein 5 %	 Oil 5 %
Lambert (0)	45.9	11	9/17	1.5	32	16.9	1.6	41.3	20.0
Parker (I)	48.3	4	6.4	1.9	35	18.6	2.0	41.2	19.5
Surge	46.7	7	1.5	1.4	32	20.9	2.1	42.1	19.4
Traill (E)	37.1	41	-9.6	1.6	30	17.0	1.7	42.2	18.5
M95-116024	41.0	35	-8.2	1.6	32	16.6	2.0	43.0	18.2
M96-323011	44.5	17	-1.4	1.4	30	17.1	2.0	42.2	19.3
M96-323087	41.9	30	-4.3	1.6	31	15.5	1.9	40.3	19.6
M96-355009	50.8	1	3.2	1.4	32	17.3	1.8	41.1	18.7
M96-356055	44.2	18	1.5	1.3	31	17.6	2.0	41.2	19.7
M96-356062	39.2	39	-4.0	1.4	32	15.9	2.1	41.3	19.7
M96-373013	44.9	15	-0.1	1.8	34	18.8	1.9	42.5	18.2
M96-376023	42.9	24	-1.9	1.6	29	17.2	1.8	40.8	19.7
M96-393101	46.7	7	0.5	1.6	32	18.7	1.5	43.4	19.0
M96-402043	42.9	24	1.8	1.4	29	16.5	1.9	42.0	19.3
M96-403029	46.7	7	-0.2	1.4	31	17.7	1.8	41.8	18.9
OAC 01-15	40.0	38	-6.3	1.6	28	18.1	1.9	40.6	19.0
OAC 01-17	38.7	40	-6.4	1.6	31	16.4	2.0	40.0	19.6
OAC 01-25	46.7	7	2.4	1.2	29	18.9	1.7	41.0	18.8
OAC 01-26	40.4	36	0.2	1.5	32	18.7	1.8	41.4	19.7
OAC 01-31	42.6	27	1.1	1.4	33	16.9	2.7	41.1	19.0
ORC 0102	50.8	1	6.2	1.3	35	17.9	1.5	39.8	19.2
ORC 0103	47.6	6	6.9	1.4	33	17.7	1.8	40.4	19.3
ND99-0408	45.1	13	-1.4	1.3	31	15.6	1.7	40.2	19.4
ND99-0413	48.8	3	2.7	1.4	33	15.2	1.8	40.2	19.7
ND99-0422	48.3	4	1.2	1.5	34	16.0	1.9	41.5	19.0
ND99-1002	43.5	21	3.3	1.4	33	21.5	2.1	42.0	18.7
ND99-2066	43.2	23	3.0	1.4	31	15.1	1.6	42.1	18.4
ND99-2084	43.6	20	-0.8	1.6	34	15.2	1.6	40.9	18.8
ND99-2087	41.5	31	-1.7	1.6	32	14.8	1.6	40.4	19.0
ND99-2144	45.3	12	2.4	1.8	31	15.4	1.5	40.5	19.6
ND99-2156	43.5	21	-6.7	1.1	29	14.9	1.7	39.2	20.1
ND99-2169	41.4	34	-6.8	1.2	29	14.9	1.8	38.8	20.1
ND99-2404	42.6	27	-0.1	1.5	35	17.1	1.9	41.8	18.2
ND99-2608	45.1	13	-2.5	1.6	33	14.9	1.9	40.9	19.1
ND99-2614	42.3	29	-3.7	1.4	29	15.4	1.9	41.1	19.4
ND99-2621	42.8	26	-5.6	1.1	29	15.3	2.1	41.1	19.4
SD99-700	43.9	19	-0.8	1.4	29	19.5	2.0	42.3	19.1
SD99-548	40.4	36	2.1	1.3	32	18.4	1.9	40.6	19.6
SD99-1358	44.8	16	-1.8	1.2	31	21.7	2.3	41.7	18.6
SD99-3560	41.5	31	-1.6	1.3	30	17.2	1.9	40.2	19.8
SD99-5017	41.5	31	2.5	1.1	31	18.9	1.9	43.4	18.5

119.1 Days After Planting

PRELIMINARY TEST 0, 2002

YIELD (bu/a)

Strain	Mean 8 Tests	Morris MN	Rose-mount MN	Cassel-ton ND	Ottawa ONT	Woodstock ONT	St Bruno Montarville Que.	Brookings SD	Water-town SD
Lambert (0)	45.9	54.2	57.6	52.2	45.5	55.8	34.0	34.2	33.5
Parker (I)	48.3	52.2	56.9	55.6	47.2	63.8	35.0	35.0	40.6
Surge	46.7	63.3	53.0	48.4	47.6	57.9	35.4	31.9	36.1
Traill (E)	37.1	51.3	40.2	40.6	41.2	50.8	27.7	25.5	19.8
M95-116024	41.0	45.6	50.8	45.7	42.2	51.8	30.1	32.9	29.1
M96-323011	44.5	56.9	54.9	47.1	44.1	60.9	33.6	32.2	26.7
M96-323087	41.9	50.0	51.1	47.5	43.8	60.7	30.3	25.9	25.5
M96-355009	50.8	63.0	56.3	61.9	47.1	63.4	36.5	36.2	41.9
M96-356055	44.2	53.4	57.0	46.9	43.7	58.8	31.3	31.4	31.4
M96-356062	39.2	48.5	52.0	40.8	37.9	53.5	26.9	30.4	23.9
M96-373013	44.9	50.8	52.4	55.9	42.1	62.7	34.4	29.3	31.3
M96-376023	42.9	48.6	41.2	45.1	48.7	60.6	36.8	34.1	28.0
M96-393101	46.7	61.1	61.1	49.1	47.3	62.9	33.4	34.7	24.1
M96-402043	42.9	50.9	62.8	50.2	47.5	54.4	30.8	26.8	20.2
M96-403029	46.7	62.6	52.6	55.6	46.1	63.7	32.4	36.1	24.7
OAC 01-15	40.0	47.2	46.0	46.0	44.3	56.3	30.3	30.2	19.7
OAC 01-17	38.7	43.9	42.0	45.6	44.8	56.9	26.1	29.0	21.5
OAC 01-25	46.7	62.2	49.7	50.9	51.5	64.2	36.3	35.0	24.1
OAC 01-26	40.4	50.0	49.5	32.5	46.2	66.2	29.2	31.6	18.4
OAC 01-31	42.6	55.5	45.6	46.4	44.4	57.1	33.5	31.9	26.8
ORC 0102	50.8	59.4	55.6	57.6	51.6	68.3	35.6	41.0	37.1
ORC 0103	47.6	50.4	55.8	55.7	50.8	66.7	37.0	37.3	27.1
ND99-0408	45.1	54.1	57.3	51.7	41.9	57.6	29.9	32.4	36.0
ND99-0413	48.8	61.4	56.0	51.2	50.3	65.4	31.1	36.3	38.4
ND99-0422	48.3	58.1	54.4	56.0	47.9	63.2	31.4	37.5	38.3
ND99-1002	43.5	50.1	59.5	49.1	40.0	57.7	30.4	33.8	27.3
ND99-2066	43.2	47.6	59.5	45.2	45.5	55.3	29.6	32.7	30.1
ND99-2084	43.6	46.7	54.1	55.6	45.4	50.7	27.9	35.3	33.5
ND99-2087	41.5	47.7	51.2	46.1	41.7	52.8	29.5	34.2	29.0
ND99-2144	45.3	53.2	54.6	59.7	51.8	60.9	32.4	25.8	23.7
ND99-2156	43.5	52.0	47.3	55.7	45.6	57.3	30.4	29.9	30.2
ND99-2169	41.4	52.2	44.3	52.5	41.2	56.7	30.9	30.4	22.7
ND99-2404	42.6	46.5	51.2	49.4	43.8	56.0	32.7	31.6	30.0
ND99-2608	45.1	51.0	53.7	53.3	44.6	61.2	30.5	36.0	30.2
ND99-2614	42.3	45.7	50.4	49.8	44.4	54.9	30.3	35.1	27.9
ND99-2621	42.8	52.7	49.7	54.4	42.8	53.0	29.5	31.4	29.1
SD99-700	43.9	55.6	50.7	49.6	44.5	57.3	32.0	31.2	30.3
SD99-548	40.4	44.8	48.0	36.6	38.4	59.5	28.5	37.6	30.2
SD99-1358	44.8	55.5	44.6	49.3	42.8	66.9	30.4	37.5	31.5
SD99-3560	41.5	51.6	51.3	39.3	45.1	53.5	30.6	31.2	29.3
SD99-5017	41.5	49.6	49.6	45.4	36.9	56.0	28.0	33.7	32.5
C.V. (%)		9.2	15.5	15.4	5.6	5.9	5.1	13.3	14.8
L.S.D. (5%)		9.8	16.2	12.2	2.9	6.1	3.2	7.4	7.2
Row Sp. (In.)		10	10	30	16	14	7	30	30
Rows/Plot		4	4	4	4	4	5	4	4
Reps		2	2	3	3	3	2	2	2

PRELIMINARY TEST 0, 2002

YIELD RANK

Strain	Yield Rank	Morris MN	Rose-mount MN	Cassel-ton ND	Ottawa ONT	Woodstock ONT	St Bruno Montarville Que.	Brookings SD	Water-town SD
Lambert (0)	11	13	5	14	16	31	9	15	8
Parker (I)	4	18	8	8	11	7	7	12	2
Surge	7	1	18	25	8	20	6	24	6
Traill (E)	41	22	41	38	36	40	39	41	39
M95-116024	35	39	26	32	32	39	30	20	21
M96-323011	17	9	13	27	26	14	10	23	29
M96-323087	30	28	25	26	27	16	27	39	30
M96-355009	1	2	9	1	12	9	3	7	1
M96-356055	18	15	7	28	29	19	18	28	12
M96-356062	39	32	21	37	40	35	40	32	34
M96-373013	15	25	20	5	33	12	8	36	13
M96-376023	24	31	40	36	6	17	2	17	24
M96-393101	7	6	2	24	10	11	12	14	32
M96-402043	24	24	1	18	9	34	21	38	38
M96-403029	7	3	19	10	14	8	14	8	31
OAC 01-15	38	35	35	31	25	28	28	34	40
OAC 01-17	40	41	39	33	20	26	41	37	37
OAC 01-25	7	4	29	17	3	6	4	12	32
OAC 01-26	36	28	32	41	13	4	35	27	41
OAC 01-31	27	11	36	29	23	25	11	24	28
ORC 0102	1	7	12	3	2	1	5	1	5
ORC 0103	6	26	11	6	4	3	1	5	27
ND99-0408	13	14	6	15	34	22	31	22	7
ND99-0413	3	5	10	16	5	5	19	6	3
ND99-0422	4	8	15	4	7	10	17	3	4
ND99-1002	21	27	3	23	38	21	26	18	26
ND99-2066	23	34	3	35	17	32	32	21	18
ND99-2084	20	36	16	8	18	41	38	10	8
ND99-2087	31	33	23	30	35	38	34	15	23
ND99-2144	12	16	14	2	1	14	15	40	35
ND99-2156	21	20	34	6	15	23	24	35	15
ND99-2169	34	18	38	13	37	27	20	32	36
ND99-2404	27	37	23	21	28	29	13	27	19
ND99-2608	13	23	17	12	21	13	23	9	15
ND99-2614	29	38	28	19	24	33	29	11	25
ND99-2621	26	17	29	11	31	37	33	28	21
SD99-700	19	10	27	20	22	23	16	30	14
SD99-548	36	40	33	40	39	18	36	2	15
SD99-1358	16	11	37	22	30	2	25	3	11
SD99-3560	31	21	22	39	19	35	22	30	20
SD99-5017	31	30	31	34	41	29	37	19	10

PRELIMINARY TEST 0, 2002

MATURITY (date)

Strain	Mean 8 Tests	Morris MN	Rose-mount MN	Cassel-ton ND	Ottawa ONT	Woodstock ONT	St Bruno Montarville Que.	Brookings SD	Water-town SD
Lambert (0)	9/17	9/14	9/18	10/1	9/14	9/14	9/27	9/7	9/12
Parker (I)	6.4	4	8	5	9	7	5	8	5
Surge	1.5	0	0	5	1	3	-1	3	1
Traill (E)	-9.6	-2	-10	-12	-10	-5	-17	-7	-14
M95-116024	-8.2	-2	-10	-8	-6	-4	-14	-5	-16
M96-323011	-1.4	-1	-3	-4	0	1	-1	-1	-2
M96-323087	-4.3	1	-6	-9	-2	0	-4	-3	-11
M96-355009	3.2	3	5	2	3	4	3	3	2
M96-356055	1.5	3	0	0	1	3	-1	4	2
M96-356062	-4.0	-1	-8	-6	-4	-1	-6	1	-7
M96-373013	-0.1	2	-1	1	-2	2	-2	2	-3
M96-376023	-1.9	-1	-9	0	-3	2	-4	2	-2
M96-393101	0.5	2	-1	0	2	2	-2	3	-2
M96-402043	1.8	3	2	-2	2	4	4	-1	2
M96-403029	-0.2	-1	-1	-3	-1	2	-4	6	1
OAC 01-15	-6.3	-2	-10	-11	-6	-5	-15	-2	1
OAC 01-17	-6.4	-1	-10	-13	-7	-3	-14	-2	-1
OAC 01-25	2.4	3	2	2	1	4	-2	6	3
OAC 01-26	0.2	2	-1	-2	-1	3	-4	3	1
OAC 01-31	1.1	3	0	-3	1	1	0	3	4
ORC 0102	6.2	6	10	-1	9	7	6	6	6
ORC 0103	6.9	6	10	3	8	10	4	7	7
ND99-0408	-1.4	-1	-2	-5	-1	0	-4	0	2
ND99-0413	2.7	2	6	-2	2	3	0	3	7
ND99-0422	1.2	3	1	1	1	1	-4	4	2
ND99-1002	3.3	5	4	3	6	7	-1	4	-2
ND99-2066	3.0	3	6	2	3	3	2	3	2
ND99-2084	-0.8	0	1	-8	2	-1	-4	3	1
ND99-2087	-1.7	0	-2	1	-5	-1	-6	1	-2
ND99-2144	2.4	2	6	3	6	5	1	-2	-2
ND99-2156	-6.7	-2	-10	-12	-4	-2	-9	-3	-11
ND99-2169	-6.8	-2	-10	-9	-6	-4	-10	-4	-10
ND99-2404	-0.1	2	-4	0	2	0	-4	3	0
ND99-2608	-2.5	3	7	-9	-4	-3	-6	-3	-5
ND99-2614	-3.7	0	-8	-5	-1	0	-6	0	-9
ND99-2621	-5.6	-2	-10	-9	-6	-2	-8	-3	-5
SD99-700	-0.8	-1	-6	-2	2	1	-4	2	2
SD99-548	2.1	0	3	0	5	2	0	3	4
SD99-1358	-1.8	-1	-7	-4	0	4	-4	2	-4
SD99-3560	-1.6	-1	-6	-5	2	1	-4	3	-3
SD99-5017	2.5	2	5	2	6	4	-2	5	-2
Date Planted	5/21	5/23	5/21	5/16	5/22	6/8	5/20	5/13	5/14
Days to Mature	119	114	120	138	115	98	130	117	121

PRELIMINARY TEST 0, 2002

LODGING (score)

Strain	Mean 8 Tests	Morris MN	Rose-mount MN	Cassel-ton ND	Ottawa ONT	Woodstock ONT	St Bruno Montarville Que.	Brookings SD	Water-town SD
Lambert (0)	1.5	3.0	2.0	1.0	1.0	2.0	1.0	1.0	1.0
Parker (I)	1.9	4.0	3.0	1.0	1.0	3.0	1.0	1.0	1.0
Surge	1.4	2.5	2.0	1.0	1.0	2.0	1.0	1.0	1.0
Traill (E)	1.6	3.0	2.0	1.0	1.0	2.5	1.0	1.0	1.0
M95-116024	1.6	3.0	2.0	1.0	1.0	3.0	1.0	1.0	1.0
M96-323011	1.4	2.0	2.0	1.0	1.0	2.0	1.0	1.0	1.0
M96-323087	1.6	3.5	2.0	1.0	1.0	2.0	1.0	1.0	1.0
M96-355009	1.4	2.5	1.5	1.0	1.0	2.5	1.0	1.0	1.0
M96-356055	1.3	2.0	1.0	1.0	1.0	2.0	1.0	1.0	1.0
M96-356062	1.4	2.5	2.0	1.0	1.0	2.0	1.0	1.0	1.0
M96-373013	1.8	3.5	2.5	1.0	1.0	3.0	1.0	1.0	1.0
M96-376023	1.6	3.5	2.0	1.0	1.0	2.0	1.0	1.0	1.0
M96-393101	1.6	3.0	2.0	1.0	1.0	2.5	1.0	1.0	1.0
M96-402043	1.4	2.0	2.0	1.0	1.0	2.0	1.0	1.0	1.0
M96-403029	1.4	2.0	2.0	1.0	1.0	2.0	1.0	1.0	1.0
OAC 01-15	1.6	2.5	3.0	1.0	1.0	2.5	1.0	1.0	1.0
OAC 01-17	1.6	2.5	2.5	1.0	1.0	2.5	1.0	1.0	1.0
OAC 01-25	1.2	1.5	1.5	1.0	1.0	1.5	1.0	1.0	1.0
OAC 01-26	1.5	3.0	2.0	1.0	1.0	2.0	1.0	1.0	1.0
OAC 01-31	1.4	2.5	2.0	1.0	1.0	2.0	1.0	1.0	1.0
ORC 0102	1.3	1.5	2.0	1.0	1.0	2.0	1.0	1.0	1.0
ORC 0103	1.4	2.0	2.0	1.0	1.0	2.0	1.0	1.0	1.0
ND99-0408	1.3	1.5	2.0	1.0	1.0	2.0	1.0	1.0	1.0
ND99-0413	1.4	2.0	2.0	1.0	1.0	2.0	1.0	1.0	1.0
ND99-0422	1.5	2.5	2.5	1.0	1.0	2.0	1.0	1.0	1.0
ND99-1002	1.4	2.0	2.0	1.0	1.0	2.0	1.0	1.0	1.0
ND99-2066	1.4	2.0	2.0	1.0	1.0	2.5	1.0	1.0	1.0
ND99-2084	1.6	3.5	2.0	1.0	1.0	2.5	1.0	1.0	1.0
ND99-2087	1.6	3.5	2.0	1.0	1.0	2.0	1.0	1.0	1.0
ND99-2144	1.8	3.0	3.0	1.0	1.0	3.0	1.0	1.0	1.0
ND99-2156	1.1	1.5	1.0	1.0	1.0	1.5	1.0	1.0	1.0
ND99-2169	1.2	1.5	1.0	1.0	1.0	2.0	1.0	1.0	1.0
ND99-2404	1.5	3.0	2.0	1.0	1.0	2.0	1.0	1.0	1.0
ND99-2608	1.6	3.0	2.5	1.0	1.0	2.0	1.0	1.0	1.0
ND99-2614	1.4	2.5	2.0	1.0	1.0	2.0	1.0	1.0	1.0
ND99-2621	1.1	1.0	1.0	1.0	1.0	1.5	1.0	1.0	1.0
SD99-700	1.4	1.5	2.0	1.0	1.0	1.5	1.0	1.0	2.0
SD99-548	1.3	1.5	2.0	1.0	1.0	1.5	1.0	1.0	1.0
SD99-1358	1.2	1.5	1.0	1.0	1.0	2.0	1.0	1.0	1.0
SD99-3560	1.3	1.5	1.5	1.0	1.0	2.0	1.0	1.0	1.0
SD99-5017	1.1	1.0	1.0	1.0	1.0	2.0	1.0	1.0	1.0

PRELIMINARY TEST 0, 2002

PLANT HEIGHT (inches)

Strain	Mean 8 Tests	Morris MN	Rose-mount MN	Cassel-ton ND	Ottawa ONT	Woodstock ONT	St Bruno Montarville Que.	Brookings SD	Water-town SD
Lambert (0)	32	44	47	31	28	34	29	20	24
Parker (I)	35	42	45	31	35	41	29	25	32
Surge	32	47	51	30	27	32	30	19	21
Traill (E)	30	41	43	27	25	31	30	18	24
M95-116024	32	42	44	30	29	36	30	20	24
M96-323011	30	38	41	29	25	33	29	20	24
M96-323087	31	40	42	29	27	35	29	20	27
M96-355009	32	41	44	31	30	36	30	21	22
M96-356055	31	42	44	28	28	35	32	21	22
M96-356062	32	43	46	29	29	35	30	21	26
M96-373013	34	47	49	32	28	38	26	23	26
M96-376023	29	38	41	27	27	31	27	22	18
M96-393101	32	45	47	31	31	36	27	24	17
M96-402043	29	39	42	28	27	33	29	21	16
M96-403029	31	41	43	28	29	34	32	25	17
OAC 01-15	28	35	38	25	25	31	30	22	16
OAC 01-17	31	40	42	29	29	32	33	24	22
OAC 01-25	29	36	38	29	27	32	32	21	17
OAC 01-26	32	43	44	31	32	36	30	24	20
OAC 01-31	33	45	47	32	30	37	28	23	22
ORC 0102	35	48	51	34	29	39	31	24	23
ORC 0103	33	43	45	33	29	37	32	23	21
ND99-0408	31	43	46	25	26	31	30	22	24
ND99-0413	33	41	43	32	29	37	33	24	25
ND99-0422	34	46	47	31	29	36	29	24	27
ND99-1002	33	45	47	29	29	39	28	25	24
ND99-2066	31	37	38	28	28	33	35	21	27
ND99-2084	34	44	46	33	31	35	30	25	28
ND99-2087	32	43	43	30	29	34	30	24	24
ND99-2144	31	42	44	31	30	35	36	17	17
ND99-2156	29	37	40	30	24	30	31	19	21
ND99-2169	29	36	38	28	23	32	30	18	26
ND99-2404	35	44	45	30	33	37	30	25	34
ND99-2608	33	42	44	26	29	35	34	21	34
ND99-2614	29	36	37	25	27	33	27	21	25
ND99-2621	29	37	39	27	23	31	28	20	28
SD99-700	29	36	40	26	25	31	29	21	21
SD99-548	32	41	43	25	29	34	32	23	26
SD99-1358	31	40	41	28	27	34	34	22	24
SD99-3560	30	37	39	29	27	32	32	22	22
SD99-5017	31	38	39	30	27	34	32	24	26

PRELIMINARY TEST 0, 2002

SEED SIZE (g/100)

Strain	Mean 8 Tests	Morris MN	Rose-mount MN	Cassel-ton ND	Ottawa ONT	Woodstock ONT	St Bruno Montarville Que.	Brookings SD	Water-town SD
Lambert (0)	16.9	17.7	16.0	18.9	16.2	16.7	15.8	16.7	16.9
Parker (I)	18.6	19.4	19.0	16.7	18.7	20.1	17.7	17.9	19.4
Surge	20.9	22.4	19.3	23.0	20.1	20.6	18.9	20.6	22.2
Traill (E)	17.0	18.3	14.8	17.9	16.4	17.4	15.6	17.7	17.7
M95-116024	16.6	16.7	14.9	18.8	16.2	16.6	14.7	17.9	16.6
M96-323011	17.1	19.6	16.5	18.1	16.5	16.8	16.0	16.2	17.2
M96-323087	15.5	15.3	15.3	16.6	15.0	15.4	14.6	15.8	16.3
M96-355009	17.3	17.8	16.8	18.7	17.4	18.4	15.4	16.2	17.9
M96-356055	17.6	18.5	16.7	18.6	16.5	18.4	15.6	18.3	18.0
M96-356062	15.9	17.3	14.3	17.4	14.9	16.1	14.3	14.9	17.8
M96-373013	18.8	19.6	17.2	21.9	17.7	20.0	16.2	19.5	18.3
M96-376023	17.2	18.2	15.8	18.5	16.3	17.7	15.3	18.5	17.7
M96-393101	18.7	19.0	18.0	20.3	19.3	19.2	16.2	17.5	20.3
M96-402043	16.5	16.5	15.7	17.0	16.8	15.8	14.6	17.9	18.0
M96-403029	17.7	19.2	17.0	19.0	16.9	18.7	14.9	19.4	16.8
OAC 01-15	18.1	19.3	16.8	18.5	17.5	18.5	15.9	18.5	19.6
OAC 01-17	16.4	16.8	15.5	16.5	16.5	16.9	15.0	16.6	17.4
OAC 01-25	18.9	17.7	17.1	20.6	18.8	19.8	18.6	18.2	20.3
OAC 01-26	18.7	18.8	16.6	19.0	20.6	20.0	17.9	17.7	19.1
OAC 01-31	16.9	17.6	15.3	17.3	16.5	17.0	15.8	18.8	17.2
ORC 0102	17.9	16.6	15.9	18.9	19.0	19.2	16.8	16.6	19.8
ORC 0103	17.7	15.2	17.2	19.6	17.5	18.7	17.4	16.9	19.4
ND99-0408	15.6	14.9	14.7	16.6	15.3	15.3	14.2	17.5	16.2
ND99-0413	15.2	15.0	15.4	16.0	14.5	15.8	13.8	16.1	15.2
ND99-0422	16.0	16.3	14.9	18.2	15.3	15.4	14.6	18.2	15.0
ND99-1002	21.5	21.8	20.8	22.7	21.9	22.5	19.7	19.8	22.9
ND99-2066	15.1	15.2	14.5	16.4	15.0	15.1	13.5	15.4	15.8
ND99-2084	15.2	15.5	14.3	16.9	15.3	14.8	14.2	16.1	14.8
ND99-2087	14.8	14.6	13.6	17.0	14.2	14.9	13.6	15.2	15.1
ND99-2144	15.4	14.9	14.2	15.6	15.4	15.5	13.6	16.5	17.8
ND99-2156	14.9	16.0	13.2	17.6	14.0	14.3	13.8	15.7	14.7
ND99-2169	14.9	16.5	13.9	16.2	13.5	14.3	13.5	16.5	15.0
ND99-2404	17.1	17.5	15.3	17.7	18.4	16.4	16.2	16.4	18.8
ND99-2608	14.9	15.4	14.8	15.0	14.6	15.9	13.4	16.3	14.1
ND99-2614	15.4	16.3	13.6	17.8	14.8	16.7	14.0	16.9	13.3
ND99-2621	15.3	16.0	14.0	16.7	14.9	15.6	13.8	16.2	15.4
SD99-700	19.5	20.1	16.9	22.5	18.9	20.5	16.2	20.4	20.6
SD99-548	18.4	19.8	16.6	19.3	18.9	18.9	17.1	18.8	18.1
SD99-1358	21.7	22.3	17.9	22.4	22.0	25.8	20.1	21.5	21.3
SD99-3560	17.2	17.3	15.2	18.7	17.6	18.6	15.5	16.8	17.7
SD99-5017	18.9	19.8	18.4	21.7	18.6	19.3	17.3	16.6	19.5

PRELIMINARY TEST 0, 2002

SEED QUALITY (score)

Strain	Mean 7 Tests	Morris MN	Rose-mount MN	Cassel-ton ND	Ottawa ONT	Woodstock ONT	St Bruno Montarville Que.	Brookings SD	Water-town SD
Lambert (0)	1.6	1.0	1.5		2.3	1.0	1.5	2.0	2.0
Parker (I)	2.0	1.5	2.5		1.0	1.0	2.0	4.0	2.0
Surge	2.1	1.5	1.5		2.4	1.5	1.5	4.0	2.0
Traill (E)	1.7	1.5	2.0		1.7	1.5	1.5	3.0	1.0
M95-116024	2.0	1.5	2.0		2.3	1.5	1.0	4.0	2.0
M96-323011	2.0	1.5	2.0		3.3	1.0	1.0	3.0	2.0
M96-323087	1.9	1.5	2.0		2.3	1.5	1.0	3.0	2.0
M96-355009	1.8	1.5	1.5		2.0	1.0	1.5	3.0	2.0
M96-356055	2.0	2.0	1.5		2.3	1.0	1.0	4.0	2.0
M96-356062	2.1	2.0	2.5		3.0	1.5	1.0	3.0	2.0
M96-373013	1.9	2.0	2.0		2.0	1.0	1.0	3.0	2.0
M96-376023	1.8	1.5	2.0		2.0	1.0	1.0	3.0	2.0
M96-393101	1.5	1.0	2.0		1.7	1.0	1.0	3.0	1.0
M96-402043	1.9	1.0	2.0		3.0	1.5	1.0	3.0	2.0
M96-403029	1.8	1.5	1.5		2.0	1.0	1.5	3.0	2.0
OAC 01-15	1.9	2.0	2.5		2.4	1.5	1.0	3.0	1.0
OAC 01-17	2.0	2.5	2.0		2.0	1.5	1.0	3.0	2.0
OAC 01-25	1.7	1.5	1.5		2.0	1.0	1.0	3.0	2.0
OAC 01-26	1.8	1.5	2.0		2.0	1.0	1.0	3.0	2.0
OAC 01-31	2.7	2.0	2.5		3.7	2.5	1.5	4.0	3.0
ORC 0102	1.5	1.5	2.0		1.7	1.0	1.5	2.0	1.0
ORC 0103	1.8	2.0	1.5		1.3	1.0	1.5	3.0	2.0
ND99-0408	1.7	1.5	1.5		2.0	1.0	1.0	3.0	2.0
ND99-0413	1.8	1.5	2.0		0.9	1.0	1.0	4.0	2.0
ND99-0422	1.9	2.0	2.0		2.0	1.0	1.0	3.0	2.0
ND99-1002	2.1	2.0	2.0		2.0	1.5	1.0	3.0	3.0
ND99-2066	1.6	1.5	1.5		1.0	1.0	1.0	3.0	2.0
ND99-2084	1.6	1.5	1.5		1.0	1.0	1.5	3.0	2.0
ND99-2087	1.6	1.5	1.5		1.3	1.0	1.0	3.0	2.0
ND99-2144	1.5	1.0	1.5		1.0	1.0	1.0	3.0	2.0
ND99-2156	1.7	1.5	2.0		1.3	1.0	1.0	3.0	2.0
ND99-2169	1.8	1.5	2.0		1.0	1.0	1.0	3.0	3.0
ND99-2404	1.9	1.5	1.5		2.0	1.5	1.5	3.0	2.0
ND99-2608	1.9	1.5	1.0		2.0	1.0	1.5	4.0	2.0
ND99-2614	1.9	2.0	1.5		2.0	1.0	1.0	3.0	3.0
ND99-2621	2.1	2.5	2.0		2.0	1.5	1.0	4.0	2.0
SD99-700	2.0	2.0	1.5		2.7	1.0	1.5	3.0	2.0
SD99-548	1.9	2.0	1.5		2.0	1.0	1.5	3.0	2.0
SD99-1358	2.3	2.0	1.5		3.4	1.5	2.5	3.0	2.0
SD99-3560	1.9	1.5	1.5		2.0	1.5	2.0	3.0	2.0
SD99-5017	1.9	2.0	1.5		2.0	1.5	1.0	3.0	2.0

PRELIMINARY TEST 0, 2002

PROTEIN (%)

Strain	Mean 5 Tests	Morris MN	Rosemount MN	Casselton ND	Woodstock ONT	Brookings SD
Lambert (0)	41.3	41.6	39.1	41.5	43.4	40.7
Parker (I)	41.2	40.6	40.9	39.8	42.6	42.0
Surge	42.1	40.3	41.1	41.6	44.3	43.0
Traill (E)	42.2	41.4	40.1	42.3	43.8	43.5
M95-116024	43.0	42.2	41.4	42.5	44.9	43.8
M96-323011	42.2	40.8	41.4	42.3	43.4	43.3
M96-323087	40.3	39.0	39.3	39.7	41.8	41.6
M96-355009	41.1	41.0	40.4	40.2	42.4	41.5
M96-356055	41.2	40.9	39.9	40.8	42.8	41.7
M96-356062	41.3	40.7	38.7	43.0	42.4	41.7
M96-373013	42.5	40.5	41.3	43.3	44.5	43.0
M96-376023	40.8	41.3	40.6	40.2	41.9	40.2
M96-393101	43.4	42.8	42.2	43.2	45.6	43.4
M96-402043	42.0	40.8	41.0	41.5	43.7	43.0
M96-403029	41.8	40.6	40.7	41.8	43.0	42.7
OAC 01-15	40.6	39.3	39.3	40.8	42.1	41.3
OAC 01-17	40.0	37.6	39.5	39.7	41.1	42.1
OAC 01-25	41.0	39.0	40.9	41.5	43.1	40.6
OAC 01-26	41.4	40.9	40.3	40.9	42.0	42.8
OAC 01-31	41.1	40.9	39.9	40.8	42.7	41.2
ORC 0102	39.8	38.8	39.0	39.4	42.1	39.9
ORC 0103	40.4	40.4	39.4	39.8	42.2	40.2
ND99-0408	40.2	38.8	39.6	39.7	41.7	41.4
ND99-0413	40.2	40.7	38.9	40.1	41.2	40.3
ND99-0422	41.5	40.6	40.5	41.3	42.5	42.4
ND99-1002	42.0	41.0	41.4	41.5	44.5	41.7
ND99-2066	42.1	41.7	41.8	41.8	43.7	41.5
ND99-2084	40.9	39.7	39.5	40.3	43.4	41.6
ND99-2087	40.4	38.7	39.5	40.6	42.2	40.8
ND99-2144	40.5	39.6	41.0	39.5	40.7	41.9
ND99-2156	39.2	38.1	39.3	38.7	40.1	40.0
ND99-2169	38.8	36.3	38.6	39.1	40.3	39.6
ND99-2404	41.8	40.0	41.9	41.6	43.0	42.3
ND99-2608	40.9	41.0	41.7	39.2	41.4	41.4
ND99-2614	41.1	40.2	40.2	40.7	42.7	41.9
ND99-2621	41.1	41.1	39.6	41.8	42.5	40.7
SD99-700	42.3	39.8	41.4	42.4	44.9	43.1
SD99-548	40.6	40.7	39.4	42.1	40.4	40.1
SD99-1358	41.7	40.7	39.7	41.0	44.7	42.2
SD99-3560	40.2	39.4	39.9	39.5	41.5	40.9
SD99-5017	43.4	42.1	42.7	44.0	45.5	42.7

PRELIMINARY TEST 0, 2002

OIL (%)

Strain	Mean 5 Tests	Morris MN	Rosemount MN	Casselton ND	Woodstock ONT	Brookings SD
Lambert (0)	20.0	20.1	18.5	20.5	21.0	19.9
Parker (I)	19.5	19.6	19.2	18.0	21.0	19.6
Surge	19.4	19.0	19.5	19.1	20.7	18.8
Traill (E)	18.5	18.6	17.2	18.3	20.1	18.0
M95-116024	18.2	18.1	17.7	18.2	19.4	17.7
M96-323011	19.3	19.2	18.5	18.7	20.9	19.1
M96-323087	19.6	19.7	18.6	19.5	21.4	19.0
M96-355009	18.7	18.3	18.3	18.6	20.6	17.8
M96-356055	19.7	19.0	19.3	20.0	21.2	19.1
M96-356062	19.7	19.5	19.5	19.0	21.1	19.3
M96-373013	18.2	18.0	17.7	18.2	19.8	17.3
M96-376023	19.7	19.4	18.0	20.1	21.8	19.4
M96-393101	19.0	19.8	18.6	19.0	19.9	17.8
M96-402043	19.3	19.6	18.6	19.2	20.4	18.8
M96-403029	18.9	19.3	18.4	18.8	20.5	17.7
OAC 01-15	19.0	19.0	18.8	18.2	21.1	17.9
OAC 01-17	19.6	19.7	18.3	19.6	21.3	19.0
OAC 01-25	18.8	18.2	18.6	18.2	20.3	18.9
OAC 01-26	19.7	19.3	19.4	19.6	20.7	19.3
OAC 01-31	19.0	19.1	18.2	18.6	20.9	18.0
ORC 0102	19.2	18.8	18.9	18.8	21.0	18.4
ORC 0103	19.3	18.0	18.7	19.6	21.4	18.7
ND99-0408	19.4	19.4	18.7	19.0	21.3	18.4
ND99-0413	19.7	19.5	18.7	19.6	21.6	19.1
ND99-0422	19.0	18.9	18.5	18.7	20.7	18.0
ND99-1002	18.7	18.2	18.0	18.2	20.0	19.0
ND99-2066	18.4	18.0	17.7	18.1	19.9	18.3
ND99-2084	18.8	19.2	18.4	18.7	19.7	17.7
ND99-2087	19.0	18.9	18.4	18.8	20.7	18.4
ND99-2144	19.6	18.9	18.6	20.0	21.7	18.6
ND99-2156	20.1	20.1	18.8	20.4	22.0	19.0
ND99-2169	20.1	19.8	19.1	19.7	21.9	20.0
ND99-2404	18.2	18.1	17.6	18.0	20.0	17.5
ND99-2608	19.1	18.3	17.1	19.2	21.7	19.5
ND99-2614	19.4	19.4	19.1	19.0	20.7	18.6
ND99-2621	19.4	18.4	18.6	19.3	21.3	19.5
SD99-700	19.1	19.8	18.2	19.3	20.6	17.7
SD99-548	19.6	19.5	19.3	18.5	21.8	18.9
SD99-1358	18.6	18.4	18.0	18.7	20.0	17.8
SD99-3560	19.8	19.8	18.9	19.2	21.7	19.3
SD99-5017	18.5	18.0	18.4	17.5	19.8	18.5

Uniform Test I, 2002

Ent.	Strain	Parentage	Previous Testing	Generation Composited	Unique Traits
1	Parker (I)	A79-136012 x Dawson	13	F5	Rps1
2.	IA1008 (SCN)	Northrup King S20-20 x Jack	4	F5	SCN
3.	IA2050 (L) (BSR)	Northrup King S24-92 x A91-501002	4	F5	BSR
4.	Lambert (0)	M75-274 x M76-151	10	F5	Rps1
5.	OAC Kent	92546-01td x OAC Bayfield	1	F5	
6.	A00-711020	A95-485020 x IA2036	PTI	F5	SCN
7.	A00-711024	A95-485020 x IA2036	PTI	F5	SCN
8.	M95-211057	SD92-1272 x Agassiz	PTI	F5	Rps1a
9.	M95-227016	IA2008R x M91-201	PT0	F5	Rps1k, BSR
10.	M95-228092	M91-557 x Archer	PT0	F5	Rps1k, BSR
11.	M95-255017	M92-1525 x A92-526007	SCN UTI	F5	Rps1,SCN
12.	M95-258296	Lambert x M92-1631	SCN UTI	F5	Rps1,SCN
13.	M95-261096	Stride x M92-1731	SCN UTI	F5	Rps1,SCN
14.	M95-265009	IA2008R x Lambert	PT0	F5	Rps1k, BSR
15.	M95-265118	IA2008R x Lambert	PTI	F5	Rps1k, BSR
16.	M96-143031	Faribault x M92-1683	SCN UTI	F4	Rps1,SCN
17.	ORC 2005	Jacques J-251 x Northrup King S24-92	PTI	F5	
18.	ORC 2006	Jacques J-251 x Westag 97	PTI	F5	
19.	SD96-135-3	Surge x Hendricks	PT0	F4	

UNIFORM TEST I, 2002

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	Chlorosis Score		Shattering Score	PR Lafayette		Hard Seed	PS Lafayette	P&SB
		Yellow Medicine Co. MN	Humboldt IA	Manhattan	Race 4	Race 7	%	a %	n %
Parker (I)	WGBDYBfl	4.0	1.9	2.0	S	S	30	14	2
IA1008 (SCN)	WGBDYYI	4.3	2.3	2.0	H	R	8	20	2
IA2050 (L) (BSR)	PTBIYBlI	5.0	2.6	3.0	S	R	4	8	0
Lambert (0)	PGBSYLbfl	3.7	1.5	2.0	S	S	26	18	0
OAC Kent	PGBDYYI	3.7	1.3	3.0	R	S	8	10	0
A00-711020	PGBIYYI	5.0	2.8	1.0	H	R	0	8	4
A00-711024	PGBIYYI	4.3	2.5	1.0	H	R	2	34	2
M95-211057	WGBDYBfl	3.0	1.4	2.0	S	S	8	16	2
M95-227016	WGTIYBfl	4.7	1.4	2.0	R	R	8	14	4
M95-228092	PGBDYYI	3.7	1.6	1.0	R	R	4	6	2
M95-255017	PSSDYBlI	3.7	1.4	3.0	R	R	12	12	2
M95-258296	PGBDYIbI	4.3	2.6	2.0	S	R	4	24	2
M95-261096	PTSIYBlI	4.3	2.4	2.0	S	R	8	12	0
M95-265009	WGTIYBfl	3.7	1.4	2.0	R	R	8	6	0
M95-265118	WGBIYBfl	3.0	1.6	2.0	S	S	24	14	0
M96-143031	WGTDYBfl	4.3	2.1	2.0	H	R	48	4	2
ORC 2005	PTBIYBrI	4.3	3.0	2.0	S	S	0	6	4
ORC 2006	PTBDYLbrI	4.3	2.9	1.0	H	S	4	10	0
SD96-135-3	PGBDYBfl	2.3	1.3	1.0	S	S	8	14	0

UNIFORM TEST I, 2002

REGIONAL SUMMARY

No. of Tests Strain	Yield 16 bu/a	Rank 16 No.	Maturity 15 Date	Lodging 16 Score	Plant Height 16 In.	Seed Size 15 g/100	Seed Quality 9 Score	Green Stem 3 Score	Composition Protein 5 %	 Oil 5 %
Parker (I)	48.9	10	9/14	1.8	34	17.8	2.2	3.2	40.6	20.3
IA1008 (SCN)	51.0	6	2.7	1.3	32	17.4	2.2	3.0	40.2	19.1
IA2050 (L) (BSR)	53.6	3	3.3	1.3	30	16.4	2.1	2.0	40.6	19.4
Lambert (0)	44.5	19	-5.5	1.3	26	15.9	2.4	2.3	41.1	20.7
OAC Kent	50.5	7	3.8	1.5	31	19.0	2.0	2.5	40.5	21.1
A00-711020	52.0	5	2.1	1.7	30	15.4	2.0	3.0	41.2	19.3
A00-711024	52.3	4	3.5	1.5	32	16.5	2.1	2.3	39.0	20.4
M95-211057	45.4	17	-1.9	1.2	29	15.2	1.9	2.2	43.2	19.6
M95-227016	48.2	11	-3.5	1.6	31	14.6	2.0	2.5	40.2	19.8
M95-228092	46.9	15	-2.1	1.4	26	17.0	1.9	3.3	40.8	19.9
M95-255017	45.0	18	-0.3	1.1	27	16.7	2.3	2.5	41.3	20.2
M95-258296	46.3	16	-4.5	1.6	30	15.6	2.5	2.2	39.1	20.2
M95-261096	47.9	13	-2.4	1.4	31	17.5	2.2	2.8	40.4	20.4
M95-265009	49.4	9	-3.6	1.6	30	14.8	2.0	2.5	39.8	19.8
M95-265118	50.3	8	-1.4	1.6	31	15.8	2.1	3.0	39.2	20.0
M96-143031	48.2	11	-3.6	1.4	28	16.1	1.7	3.0	39.2	20.4
ORC 2005	55.5	1	4.3	1.3	29	15.6	1.9	2.2	41.2	19.7
ORC 2006	55.0	2	3.1	1.5	31	15.4	1.8	2.5	39.2	20.7
SD96-135-3	47.3	14	-3.0	1.3	26	19.1	2.6	3.3	41.2	21.0

118.8 Days After Planting

UNIFORM TEST I, 2002

YIELD (bu/a)

Strain	Mean 16 Tests	Fayetteville* irrigated AR	Rohwer* irrigated AR	Ames IA	Fayette IA	Lafayette IN	Wanatah IN
Parker (I)	48.9	67.2	21.3	57.2	46.9	51.8	24.7
IA1008 (SCN)	51.0	86.0	26.5	61.4	42.4	61.3	35.8
IA2050 (L) (BSR)	53.6	75.4	27.8	65.4	55.3	55.6	36.6
Lambert (0)	44.5	51.0	15.7	45.5	40.7	39.9	25.2
OAC Kent	50.5	77.8	27.4	60.0	54.4	54.4	29.6
A00-711020	52.0	74.1	23.9	57.3	43.1	65.6	34.6
A00-711024	52.3	59.2	14.0	57.1	46.9	62.7	31.4
M95-211057	45.4	64.6	22.4	48.5	38.3	41.8	23.7
M95-227016	48.2	71.1	23.5	51.6	50.6	42.7	22.0
M95-228092	46.9	42.4	21.1	48.6	41.9	45.1	32.0
M95-255017	45.0	49.7	17.2	55.0	42.5	45.6	23.3
M95-258296	46.3	61.2	13.0	41.7	42.6	38.4	27.1
M95-261096	47.9	75.7	23.0	54.4	48.7	52.6	31.3
M95-265009	49.4	62.1	20.0	57.1	55.9	45.8	24.9
M95-265118	50.3	68.9	17.4	56.9	48.3	51.3	22.1
M96-143031	48.2	81.1	21.4	52.1	47.3	52.6	30.5
ORC 2005	55.5	75.9	36.1	69.9	54.9	61.3	36.6
ORC 2006	55.0	83.6	31.7	68.2	54.4	61.8	31.1
SD96-135-3	47.3	61.3	21.2	45.3	27.9	43.4	31.7
C.V. (%)		15.3	19.6	5.2	10.0	8.1	18.0
L.S.D. (5%)		19.7	7.4	6.1	9.7	6.9	12.6
Row Sp. (In.)		7.5	7.5	27	27	24	26
Rows/Plot		7	9	4	4	4	4
Reps		3	3	2	2	3	3

* Data not included in mean.

UNIFORM TEST I, 2002

YIELD (bu/a)

Strain	Ingham County MI	Saginaw County MI	Lamberton MN	Waseca MN	Portageville* (Loam) MO	Beemer NE	Cotesfield NE
Parker (I)	49.4	57.0	52.7	60.6	21.0	31.1	59.4
IA1008 (SCN)	54.0	56.5	44.5	60.2	23.8	34.3	64.8
IA2050 (L) (BSR)	54.0	56.2	50.4	68.7	36.0	33.1	64.8
Lambert (0)	52.2	61.2	44.7	55.1	15.0	31.1	56.9
OAC Kent	49.5	49.6	45.7	62.4	33.5	32.8	60.6
A00-711020	63.0	62.9	52.0	62.2	25.0	30.2	59.1
A00-711024	48.5	58.6	54.0	66.9	30.8	33.0	70.6
M95-211057	53.4	57.2	41.2	64.0	16.5	30.6	56.1
M95-227016	49.5	59.4	55.6	64.6	12.9	31.5	63.8
M95-228092	48.7	54.7	46.5	63.6	24.1	36.0	57.7
M95-255017	50.4	54.8	36.3	61.3	19.5	35.7	45.5
M95-258296	57.2	60.1	41.2	68.5	17.3	34.4	58.6
M95-261096	44.9	56.5	37.4	60.1	24.4	31.8	64.7
M95-265009	43.5	55.0	44.8	65.8	14.1	38.5	64.9
M95-265118	50.3	60.0	46.1	71.2	17.5	31.7	70.6
M96-143031	50.5	56.9	45.0	64.3	18.3	31.3	67.0
ORC 2005	51.1	55.6	51.7	71.8	28.8	36.2	67.5
ORC 2006	50.9	59.2	45.6	72.3	33.3	34.7	70.8
SD96-135-3	49.0	57.7	44.0	64.3	20.4	35.9	65.4
C.V. (%)	9.5	6.7	13.0	9.6	8.6	19.5	12.9
L.S.D. (5%)	8.4	6.6	9.8	10.3	2.8	13.2	17.0
Row Sp. (In.)	15	15	10	10	7.5	30	30
Rows/Plot	6	6	10	10	6	4	4.0
Reps	2	2	3	3	3	2	2

* Data not included in mean.

UNIFORM TEST I, 2002

YIELD (bu/a)

Strain	Palmyra NE	Chatham Ont	Talbotville Ont	Brookings SD	Watertown SD	Arlington WI
Parker (I)	42.2	67.1	44.9	31.4	41.0	64.7
IA1008 (SCN)	44.8	78.2	43.2	33.9	38.0	63.4
IA2050 (L) (BSR)	52.1	71.6	47.4	37.0	41.0	68.3
Lambert (0)	27.4	67.0	43.8	27.6	34.2	60.2
OAC Kent	49.7	81.2	43.7	30.2	40.1	63.5
A00-711020	47.9	71.0	46.7	34.3	39.3	62.5
A00-711024	50.2	78.2	45.9	32.3	39.3	61.6
M95-211057	33.2	62.3	44.6	28.2	39.5	63.3
M95-227016	36.0	62.7	44.0	36.1	39.3	62.3
M95-228092	43.8	67.0	42.3	27.8	34.3	60.8
M95-255017	42.1	64.7	37.0	30.4	33.5	61.6
M95-258296	30.7	67.7	41.7	28.4	37.0	65.4
M95-261096	41.6	70.2	41.7	30.6	37.1	62.1
M95-265009	39.8	72.9	45.6	33.8	36.3	65.5
M95-265118	34.5	73.8	44.1	34.6	40.9	68.5
M96-143031	36.8	66.1	44.3	26.7	37.1	63.3
ORC 2005	50.6	81.1	45.9	37.4	45.0	71.5
ORC 2006	55.8	79.6	46.3	34.2	43.4	72.2
SD96-135-3	43.6	72.6	41.0	27.3	44.2	64.0
C.V. (%)	8.5	9.4	7.3	9.2	12.8	4.1
L.S.D. (5%)	7.5	9.2	5.1	3.9	6.6	3.8
Row Sp. (In.)	30	17	14	30	30	15
Rows/Plot	4	5	4	4	4	7.5
Reps	2	3	3	3	3	3

UNIFORM TEST I, 2002

YIELD RANK

Strain	Mean 16 Tests	Fayetteville* irrigated AR	Rohwer* irrigated AR	Ames IA	Fayette IA	Lafayette IN	Wanatah IN
Parker (I)	10	11	11	7	10	10	15
IA1008 (SCN)	6	1	5	4	15	4	3
IA2050 (L) (BSR)	3	7	3	3	2	6	1
Lambert (0)	19	17	17	17	17	18	13
OAC Kent	7	4	4	5	4	7	11
A00-711020	5	8	6	6	12	1	4
A00-711024	4	16	18	8	10	2	7
M95-211057	17	12	9	16	18	17	16
M95-227016	11	9	7	14	6	16	19
M95-228092	15	19	13	15	16	14	5
M95-255017	18	18	16	11	14	13	17
M95-258296	16	15	19	19	13	19	12
M95-261096	13	6	8	12	7	8	8
M95-265009	9	13	14	8	1	12	14
M95-265118	8	10	15	10	8	11	18
M96-143031	11	3	10	13	9	8	10
ORC 2005	1	5	1	1	3	4	2
ORC 2006	2	2	2	2	4	3	9
SD96-135-3	14	14	12	18	19	15	6

* Data not included in mean.

UNIFORM TEST I, 2002

YIELD RANK

Strain	Ingham County MI	Saginaw County MI	Lamberton MN	Waseca MN	Portageville* (Loam) MO	Beemer NE	Cotesfield NE
Parker (I)	14	10	3	16	10	16	13
IA1008 (SCN)	3	13	14	17	9	8	8
IA2050 (L) (BSR)	4	14	6	4	1	9	8
Lambert (0)	6	2	13	19	17	16	17
OAC Kent	12	19	9	13	2	11	12
A00-711020	1	1	4	14	6	19	14
A00-711024	17	7	2	6	4	10	2
M95-211057	5	9	16	11	16	18	18
M95-227016	13	5	1	8	19	14	11
M95-228092	16	18	7	12	8	3	16
M95-255017	10	17	19	15	12	5	19
M95-258296	2	3	16	5	15	7	15
M95-261096	18	12	18	18	7	12	10
M95-265009	19	16	12	7	18	1	7
M95-265118	11	4	8	3	14	13	2
M96-143031	9	11	11	9	13	15	5
ORC 2005	7	15	5	2	5	2	4
ORC 2006	8	6	10	1	3	6	1
SD96-135-3	15	8	15	9	11	4	6

* Data not included in mean.

UNIFORM TEST I, 2002

YIELD RANK

Strain	Palmyra NE	Chatham Ont	Talbotville Ont	Brookings SD	Watertown SD	Arlington WI
Parker (I)	10	12	7	10	4	7
IA1008 (SCN)	7	4	14	7	12	10
IA2050 (L) (BSR)	2	8	1	2	4	4
Lambert (0)	19	13	12	17	18	19
OAC Kent	5	1	13	13	7	9
A00-711020	6	9	2	5	9	13
A00-711024	4	4	4	9	9	16
M95-211057	17	17	8	15	8	11
M95-227016	15	16	11	3	9	14
M95-228092	8	13	15	16	17	18
M95-255017	11	15	19	12	19	16
M95-258296	18	11	16	14	15	6
M95-261096	12	10	16	11	13	15
M95-265009	13	6	6	8	16	5
M95-265118	16	5	10	4	6	3
M96-143031	14	14	9	19	13	11
ORC 2005	3	2	4	1	1	2
ORC 2006	1	3	3	6	3	1
SD96-135-3	9	7	18	18	2	8

UNIFORM TEST I, 2002

MATURITY (date)

Strain	Mean 15 Tests	Fayetteville* irrigated AR	Rohwer* irrigated AR	Ames IA	Fayette IA	Lafayette IN	Wanatah IN
Parker (I)	9/14	8/8	7/10	9/3		9/13	9/5
IA1008 (SCN)	2.7	2	0	4		3	3
IA2050 (L) (BSR)	3.3	5	2	8		5	6
Lambert (0)	-5.5	-2	-3	-13		-5	0
OAC Kent	3.8	1	0	5		8	8
A00-711020	2.1	2	0	3		5	5
A00-711024	3.5	-1	-2	5		9	3
M95-211057	-1.9	0	-3	-6		-4	-2
M95-227016	-3.5	-1	-1	-7		-2	-2
M95-228092	-2.1	1	0	-5		0	1
M95-255017	-0.3	-3	-1	0		1	2
M95-258296	-4.5	-2	-1	-8		-3	0
M95-261096	-2.4	1	-1	-3		1	1
M95-265009	-3.6	1	-1	-6		-2	1
M95-265118	-1.4	-1	-2	-4		0	1
M96-143031	-3.6	5	1	-3		-3	-2
ORC 2005	4.3	3	2	7		7	6
ORC 2006	3.1	6	2	6		5	2
SD96-135-3	-3.0	-1	-2	-6		-4	1
Date Planted	5/18	4/25	4/16	5/4	5/15	6/3	5/23
Days to Mature	119	105	85	122		102	105

* Data not included in mean.

UNIFORM TEST I, 2002

MATURITY (date)

Strain	Ingham County MI	Saginaw County MI	Lamberton MN	Waseca MN	Portageville* (Loam) MO	Beemer NE	Cotesfield NE
Parker (I)	9/12	9/13	9/29	9/25	7/31	9/8	9/4
IA1008 (SCN)	3	4	2	1	-9	3	2
IA2050 (L) (BSR)	4	8	1	0	2	3	3
Lambert (0)	-1	-3	-9	-9	-12	-4	1
OAC Kent	4	11	-4	-1	8	3	2
A00-711020	4	6	-3	-1	2	2	2
A00-711024	3	6	2	0	7	3	3
M95-211057	0	-2	-4	-1	-10	2	1
M95-227016	1	-2	-7	-8	-10	-4	0
M95-228092	-1	3	-8	-3	-1	-1	0
M95-255017	1	4	-9	-4	-2	2	2
M95-258296	0	-3	-12	-7	-4	-3	-1
M95-261096	0	1	-8	-6	0	0	1
M95-265009	0	-1	-18	-10	-10	-3	0
M95-265118	2	0	-5	0	-8	-2	3
M96-143031	-1	0	-10	-7	0	-3	1
ORC 2005	6	10	3	3	7	4	3
ORC 2006	2	8	2	3	6	4	3
SD96-135-3	-2	-1	-8	-7	-1	-1	0
Date Planted	5/8	5/24	5/21	5/16	4/19	5/23	5/21
Days to Mature	127	112	131	132	103	108	106

* Data not included in mean.

UNIFORM TEST I, 2002

MATURITY (date)

Strain	Palmyra NE	Chatham Ont	Talbotville Ont	Brookings SD	Watertown SD	Arlington WI
Parker (I)	9/13	9/14	9/24	9/16	9/17	9/20
IA1008 (SCN)	0	3	2	-1	1	11
IA2050 (L) (BSR)	3	3	4	2	2	-3
Lambert (0)	-7	-5	-3	-7	-7	-11
OAC Kent	6	4	5	3	2	1
A00-711020	4	0	2	3	2	-3
A00-711024	7	4	3	2	3	0
M95-211057	0	-1	-1	-1	-5	-4
M95-227016	-6	-5	-1	-3	-5	-2
M95-228092	-4	-2	-1	-1	-4	-5
M95-255017	-2	-1	2	0	3	-5
M95-258296	-6	-5	-2	-5	-3	-10
M95-261096	-3	-2	-1	-4	-3	-10
M95-265009	2	-1	0	-7	-4	-5
M95-265118	-5	-2	1	-2	-3	-5
M96-143031	-7	-4	-1	-4	-5	-5
ORC 2005	6	5	6	1	1	-3
ORC 2006	6	3	2	2	1	-2
SD96-135-3	2	-2	1	-4	-4	-10
Date Planted	5/30	5/28	5/22	5/13	5/14	5/1
Days to Mature	106	109	125	126	126	142

UNIFORM TEST I, 2002

LODGING (score)

Strain	Mean 16 Tests	Fayetteville* irrigated AR	Rohwer* irrigated AR	Ames IA	Fayette IA	Lafayette IN	Wanatah IN
Parker (I)	1.8	2.0	1.0	3.3	1.5	2.0	1.0
IA1008 (SCN)	1.3	1.0	1.0	2.5	1.0	1.0	1.0
IA2050 (L) (BSR)	1.3	2.0	1.0	2.0	1.3	1.0	1.0
Lambert (0)	1.3	1.0	1.0	2.0	1.3	1.2	1.0
OAC Kent	1.5	1.0	1.0	2.5	1.5	1.0	1.0
A00-711020	1.7	1.0	1.0	2.8	1.5	1.5	1.0
A00-711024	1.5	1.0	1.0	2.5	1.5	1.5	1.0
M95-211057	1.2	1.0	1.0	2.0	1.0	1.0	1.0
M95-227016	1.6	1.0	1.0	3.3	1.5	2.0	1.0
M95-228092	1.4	1.0	1.0	2.5	1.3	1.2	1.0
M95-255017	1.1	1.0	1.0	2.0	1.0	1.0	1.0
M95-258296	1.6	1.0	1.0	3.3	1.5	1.5	1.0
M95-261096	1.4	2.0	1.0	2.5	1.8	1.2	1.0
M95-265009	1.6	1.0	1.0	3.0	1.5	2.2	1.0
M95-265118	1.6	1.0	1.0	2.5	1.3	1.5	1.0
M96-143031	1.4	1.0	1.0	2.3	1.8	1.5	1.0
ORC 2005	1.3	1.0	1.0	2.0	1.3	1.0	1.0
ORC 2006	1.5	1.0	1.0	2.3	1.0	1.0	1.0
SD96-135-3	1.3	1.0	1.0	2.0	1.0	1.0	1.0

* Data not included in mean.

UNIFORM TEST I, 2002

LODGING (score)

Strain	Ingham County MI	Saginaw County MI	Lamberton MN	Waseca MN	Portageville* (Loam) MO	Beemer NE	Cotesfield NE
Parker (I)	2.5	2.0	3.0	2.7	1.0	1.0	1.5
IA1008 (SCN)	2.0	1.5	2.0	1.7	1.2	1.0	1.0
IA2050 (L) (BSR)	2.0	1.0	1.7	2.3	1.2	1.0	1.0
Lambert (0)	1.5	1.0	2.0	2.0	1.0	1.0	1.0
OAC Kent	1.5	2.0	2.3	2.3	1.0	1.0	1.0
A00-711020	2.5	2.0	2.0	2.3	1.0	1.0	1.5
A00-711024	1.5	1.5	2.3	2.3	1.2	1.0	2.0
M95-211057	2.0	1.0	1.3	1.3	1.0	1.0	1.0
M95-227016	1.5	1.5	2.3	2.0	1.0	1.0	1.0
M95-228092	2.0	1.5	2.0	2.0	1.2	1.0	1.0
M95-255017	1.5	1.0	1.0	1.3	1.0	1.0	1.0
M95-258296	2.0	1.5	2.3	2.0	1.0	1.0	2.0
M95-261096	2.0	1.5	2.0	2.0	1.0	1.0	1.0
M95-265009	1.0	1.5	2.3	2.3	1.0	1.0	1.0
M95-265118	2.0	2.0	2.7	2.0	1.0	1.0	1.5
M96-143031	2.5	1.0	2.3	1.3	1.0	1.0	1.0
ORC 2005	1.0	1.0	2.3	2.7	1.7	1.0	1.0
ORC 2006	2.5	1.0	3.0	2.3	1.5	1.0	1.0
SD96-135-3	1.0	1.0	1.7	1.0	1.0	1.0	1.0

* Data not included in mean.

UNIFORM TEST I, 2002

LODGING (score)

Strain	Palmyra NE	Chatham Ont	Talbotville Ont	Brookings SD	Watertown SD	Arlington WI
Parker (I)	1.0	1.7	1.0	1.0	1.0	2.3
IA1008 (SCN)	1.0	1.7	1.0	1.0	1.0	1.0
IA2050 (L) (BSR)	1.0	1.3	1.0	1.0	1.0	1.0
Lambert (0)	1.0	1.3	1.0	1.0	1.0	1.7
OAC Kent	2.0	1.3	1.0	1.0	1.0	2.0
A00-711020	1.5	1.7	1.0	1.0	2.0	2.0
A00-711024	1.5	1.7	1.0	1.0	1.0	1.3
M95-211057	1.0	1.3	1.0	1.0	1.0	1.0
M95-227016	1.0	2.0	1.0	1.0	1.0	2.3
M95-228092	1.0	1.7	1.0	1.0	1.0	1.7
M95-255017	1.0	1.0	1.0	1.0	1.0	1.0
M95-258296	1.5	1.7	1.0	1.0	1.0	2.0
M95-261096	1.0	1.3	1.0	1.0	1.0	1.0
M95-265009	1.0	2.0	1.0	1.0	1.0	2.0
M95-265118	1.0	1.7	1.0	1.0	1.0	2.0
M96-143031	1.0	1.3	1.0	1.0	1.0	2.0
ORC 2005	1.0	1.0	1.0	1.0	1.0	1.0
ORC 2006	1.0	2.0	1.0	1.0	1.0	2.0
SD96-135-3	1.0	4.3	1.0	1.0	1.0	1.0

UNIFORM TEST I, 2002

PLANT HEIGHT (inches)

Strain	Mean 16 Tests	Fayetteville* irrigated AR	Rohwer* irrigated AR	Ames IA	Fayette IA	Lafayette IN	Wanatah IN
Parker (I)	34	34	13	33	31	36	33
IA1008 (SCN)	32	28	10	33	31	35	28
IA2050 (L) (BSR)	30	29	13	30	29	31	26
Lambert (0)	26	21	9	24	27	26	24
OAC Kent	31	27	11	30	31	35	29
A00-711020	30	29	11	29	28	32	27
A00-711024	32	26	10	32	30	37	28
M95-211057	29	29	13	28	26	31	26
M95-227016	31	25	11	34	31	33	26
M95-228092	26	21	12	25	25	28	25
M95-255017	27	21	9	26	25	32	26
M95-258296	30	25	10	29	27	29	26
M95-261096	31	30	11	35	29	34	27
M95-265009	30	26	8	32	29	31	27
M95-265118	31	24	11	32	31	35	28
M96-143031	28	27	14	25	28	31	27
ORC 2005	29	27	16	31	26	32	26
ORC 2006	31	28	15	32	28	32	29
SD96-135-3	26	21	11	23	22	29	24

* Data not included in mean.

UNIFORM TEST I, 2002

PLANT HEIGHT (inches)

Strain	Ingham County MI	Saginaw County MI	Lamberton MN	Waseca MN	Portageville* (Loam) MO	Beemer NE	Cotesfield NE
Parker (I)	32	34	39	37	15	47	33
IA1008 (SCN)	39	36	39	37	15	26	26
IA2050 (L) (BSR)	35	32	34	34	15	25	30
Lambert (0)	28	27	33	26	11	21	26
OAC Kent	34	32	35	35	15	26	27
A00-711020	38	30	33	35	15	26	26
A00-711024	34	34	42	35	15	28	27
M95-211057	35	32	35	34	13	27	26
M95-227016	31	36	38	34	12	24	33
M95-228092	27	29	33	30	13	21	26
M95-255017	31	30	28	32	15	23	24
M95-258296	33	31	39	34	14	23	30
M95-261096	32	33	39	34	16	23	29
M95-265009	30	34	38	36	13	24	28
M95-265118	34	34	42	33	12	23	35
M96-143031	32	31	36	32	16	23	30
ORC 2005	31	34	37	33	18	26	27
ORC 2006	32	33	37	35	19	28	29
SD96-135-3	28	29	35	29	13	23	26

* Data not included in mean.

UNIFORM TEST I, 2002

PLANT HEIGHT (inches)

Strain	Palmyra NE	Chatham Ont	Talbotville Ont	Brookings SD	Watertown SD	Arlington WI
Parker (I)	29	34	28	27	28	38
IA1008 (SCN)	32	39	26	25	29	38
IA2050 (L) (BSR)	27	35	27	24	22	34
Lambert (0)	23	29	25	20	19	31
OAC Kent	34	37	28	26	22	34
A00-711020	29	33	26	25	24	34
A00-711024	34	34	28	25	29	34
M95-211057	28	28	25	25	24	33
M95-227016	30	35	28	27	27	35
M95-228092	23	29	24	21	23	30
M95-255017	26	31	22	20	23	30
M95-258296	27	31	28	26	26	33
M95-261096	31	31	29	23	26	34
M95-265009	28	33	27	24	26	35
M95-265118	25	33	28	23	26	36
M96-143031	26	29	26	22	22	33
ORC 2005	28	35	25	24	22	33
ORC 2006	28	36	26	25	28	34
SD96-135-3	26	31	21	22	25	30

UNIFORM TEST I, 2002

SEED SIZE (g/100)

Strain	Mean 15 Tests	Fayetteville* irrigated AR	Rohwer* irrigated AR	Ames IA	Fayette IA	Lafayette IN	Wanatah IN
Parker (I)	17.8	17.3	15.2	16.3	17.3	17.9	17.1
IA1008 (SCN)	17.4	18.3	15.7	17.2	18.1	18.6	17.1
IA2050 (L) (BSR)	16.4	15.8	15.0	17.3	17.7	17.0	15.9
Lambert (0)	15.9	14.2	12.8	15.6	15.0	15.1	15.2
OAC Kent	19.0	14.9	14.5	17.9	19.1	20.1	16.9
A00-711020	15.4	15.4	13.2	14.0	15.8	16.4	15.4
A00-711024	16.5	15.2	12.1	16.4	17.0	16.4	14.6
M95-211057	15.2	14.7	11.4	14.9	16.3	14.1	13.4
M95-227016	14.6	17.0	14.1	13.5	15.1	13.3	13.3
M95-228092	17.0	14.4	13.7	15.5	17.1	17.5	14.8
M95-255017	16.7	13.7	13.3	16.8	17.5	16.4	15.9
M95-258296	15.6	17.6	14.7	14.6	16.6	14.9	14.8
M95-261096	17.5	14.6	12.6	16.4	18.2	19.0	15.1
M95-265009	14.8	14.5	13.0	14.4	15.3	14.0	13.2
M95-265118	15.8	17.4	13.0	14.7	15.8	15.3	14.9
M96-143031	16.1	17.8	16.6	15.1	17.0	16.4	15.7
ORC 2005	15.6	15.0	14.5	15.9	16.4	15.8	13.7
ORC 2006	15.4	14.0	13.9	15.4	16.6	15.6	13.4
SD96-135-3	19.1	19.1	15.6	17.8	19.6	17.1	16.4

* Data not included in mean.

UNIFORM TEST I, 2002

SEED SIZE (g/100)

Strain	Ingham County MI	Saginaw County MI	Lamberton MN	Waseca MN	Portageville* (Loam) MO	Beemer NE	Cotesfield NE
Parker (I)	17.0	16.5	17.6	18.2	17.0	19.0	17.2
IA1008 (SCN)	15.9	16.3	16.5	17.6	13.7	15.6	18.0
IA2050 (L) (BSR)	14.6	16.1	15.5	16.0	14.4	16.5	15.2
Lambert (0)	14.8	15.2	15.6	16.5	13.1	16.3	16.7
OAC Kent	18.8	18.9	19.2	20.0	17.8	16.8	17.4
A00-711020	15.2	14.7	14.3	15.4	13.2	14.0	15.2
A00-711024	15.5	16.2	16.9	17.0	14.4	14.9	15.5
M95-211057	14.6	14.3	14.7	15.4	13.9	15.1	14.4
M95-227016	13.5	13.2	16.0	14.8	12.1	16.1	14.1
M95-228092	16.0	16.4	16.4	17.1	15.1	17.2	16.4
M95-255017	14.6	16.1	17.0	16.1	13.1	16.7	15.9
M95-258296	14.1	14.5	16.1	15.3	13.8	15.7	14.8
M95-261096	15.6	17.0	17.9	17.8	13.1	17.3	16.1
M95-265009	13.3	13.0	15.9	14.1	12.9	16.1	15.1
M95-265118	14.3	15.2	16.4	15.3	13.3	16.3	16.0
M96-143031	14.8	15.4	16.3	15.6	13.0	17.1	16.3
ORC 2005	14.0	14.7	16.2	16.6	12.4	14.7	14.8
ORC 2006	13.8	14.2	16.3	15.9	12.8	15.3	15.7
SD96-135-3	18.0	19.2	19.0	20.4	15.8	19.2	18.5

* Data not included in mean.

UNIFORM TEST I, 2002

SEED SIZE (g/100)

Strain	Palmyra NE	Chatham Ont	Talbotville Ont	Brookings SD	Watertown SD	Arlington WI
Parker (I)	19.0		17.4	18.5	20.3	17.5
IA1008 (SCN)	17.1		17.2	17.6	19.1	18.9
IA2050 (L) (BSR)	16.5		17.2	16.5	17.2	17.1
Lambert (0)	15.8		15.5	17.7	17.5	16.1
OAC Kent	18.5		19.5	18.9	20.4	22.2
A00-711020	15.8		15.6	16.1	16.9	16.5
A00-711024	17.7		17.4	17.0	17.8	17.5
M95-211057	14.5		15.7	16.2	17.6	16.3
M95-227016	14.7		14.7	15.1	16.2	15.7
M95-228092	18.2		17.7	17.5	19.2	18.0
M95-255017	18.2		17.2	17.0	18.4	16.8
M95-258296	15.6		13.9	19.2	17.3	16.1
M95-261096	16.1		19.1	18.0	20.6	18.4
M95-265009	16.2		15.6	15.2	15.8	15.3
M95-265118	14.9		16.4	16.5	17.2	17.3
M96-143031	14.6		16.1	16.0	18.6	17.1
ORC 2005	16.4		15.8	15.6	16.0	17.0
ORC 2006	16.5		15.2	15.6	15.7	16.0
SD96-135-3	19.5		19.2	19.7	22.7	20.4

UNIFORM TEST I, 2002

SEED QUALITY (score)

Strain	Mean 9 Tests	Fayetteville* irrigated AR	Rohwer* irrigated AR	Ames IA	Fayette IA	Lafayette IN	Wanatah IN
Parker (I)	2.2	3.2	3.3			1.5	2.0
IA1008 (SCN)	2.2	3.0	3.3			1.5	1.5
IA2050 (L) (BSR)	2.1	2.0	2.5			1.0	2.0
Lambert (0)	2.4	2.3	3.2			1.0	2.0
OAC Kent	2.0	2.5	2.8			1.5	1.5
A00-711020	2.0	3.0	3.2			1.0	1.0
A00-711024	2.1	2.3	2.0			1.0	1.5
M95-211057	1.9	2.2	3.0			1.0	1.0
M95-227016	2.0	2.5	2.8			1.5	1.0
M95-228092	1.9	3.3	4.0			1.0	1.0
M95-255017	2.3	2.5	3.5			1.5	2.5
M95-258296	2.5	2.2	2.2			2.0	2.0
M95-261096	2.2	2.8	2.5			1.5	1.5
M95-265009	2.0	2.5	3.3			1.5	1.0
M95-265118	2.1	3.0	2.8			1.0	1.5
M96-143031	1.7	3.0	3.3			1.0	1.0
ORC 2005	1.9	2.2	3.5			1.0	1.5
ORC 2006	1.8	2.5	3.2			1.0	1.5
SD96-135-3	2.6	3.3	3.5			1.5	1.5

* Data not included in mean.

UNIFORM TEST I, 2002

SEED QUALITY (score)

Strain	Ingham County MI	Saginaw County MI	Lamberton MN	Waseca MN	Portageville* (Loam) MO	Beemer NE	Cotesfield NE
Parker (I)			3.7	1.7	5.0		
IA1008 (SCN)			3.3	1.7	4.0		
IA2050 (L) (BSR)			2.7	1.7	2.0		
Lambert (0)			2.7	2.3	4.7		
OAC Kent			2.3	1.7	4.0		
A00-711020			2.7	2.0	3.0		
A00-711024			2.7	1.3	3.0		
M95-211057			2.7	2.0	3.3		
M95-227016			2.3	1.3	5.0		
M95-228092			3.3	2.0	4.7		
M95-255017			2.3	2.0	5.0		
M95-258296			3.7	2.0	5.0		
M95-261096			3.5	2.0	5.0		
M95-265009			2.7	1.7	5.0		
M95-265118			3.3	2.0	5.0		
M96-143031			2.7	1.7	5.0		
ORC 2005			2.3	2.0	3.3		
ORC 2006			2.3	2.3	2.0		
SD96-135-3			3.3	2.3	5.0		

* Data not included in mean.

UNIFORM TEST I, 2002

SEED QUALITY (score)

Strain	Palmyra NE	Chatham Ont	Talbotville Ont	Brookings SD	Watertown SD	Arlington WI
Parker (I)		1.0	2.0	2.0	2.0	3.7
IA1008 (SCN)		1.7	2.0	3.0	2.0	3.3
IA2050 (L) (BSR)		1.0	2.5	3.0	2.0	2.7
Lambert (0)		1.7	3.5	2.0	3.0	3.3
OAC Kent		1.0	2.5	3.0	2.0	2.7
A00-711020		1.0	2.0	2.0	3.0	3.0
A00-711024		1.7	2.0	3.0	2.0	3.3
M95-211057		1.0	1.5	2.0	3.0	2.7
M95-227016		1.0	3.0	2.0	2.0	4.0
M95-228092		1.0	1.5	2.0	2.0	3.3
M95-255017		2.0	2.0	2.0	3.0	3.0
M95-258296		1.0	2.0	3.0	3.0	3.7
M95-261096		1.0	2.0	3.0	2.0	3.0
M95-265009		1.0	2.5	2.0	2.0	3.3
M95-265118		1.0	2.0	2.0	3.0	3.3
M96-143031		1.0	1.5	2.0	2.0	2.7
ORC 2005		1.0	1.5	3.0	2.0	2.7
ORC 2006		1.0	2.0	2.0	2.0	2.3
SD96-135-3		1.0	4.0	3.0	3.0	4.0

UNIFORM TEST I, 2002

Green Stem (score)

Strain	Mean 3 Tests	Wanatah IN	Palmyra NE	Chatham Ont
Parker (I)	3.1	1.0	5.0	3.3
IA1008 (SCN)	2.8	1.0	4.0	3.3
IA2050 (L) (BSR)	2.2	1.0	3.0	2.7
Lambert (0)	3.2	1.0	5.0	3.7
OAC Kent	1.9	1.0	2.0	2.7
A00-711020	2.4	1.0	2.0	4.3
A00-711024	2.4	1.0	4.0	2.3
M95-211057	2.8	1.0	5.0	2.3
M95-227016	1.8	1.0	3.0	1.3
M95-228092	2.1	1.0	3.0	2.3
M95-255017	2.7	1.0	4.0	3.0
M95-258296	1.9	1.0	3.0	1.7
M95-261096	2.6	1.0	4.0	2.7
M95-265009	2.8	1.0	4.0	3.3
M95-265118	3.1	1.0	5.0	3.3
M96-143031	1.8	1.0	3.0	1.3
ORC 2005	2.9	1.0	4.0	3.7
ORC 2006	2.6	1.0	3.0	3.7
SD96-135-3	2.6	1.0	4.0	2.7

UNIFORM TEST I, 2002

PROTEIN (%)

Strain	Mean 5 Tests	Ames IA	Lamberton MN	Wanatah IN	Talbotville Ont.	Brookings SD
Parker (I)	40.6	40.7	41.8	38.6	41.0	40.8
IA1008 (SCN)	40.2	41.5	40.0	39.2	40.2	40.1
IA2050 (L) (BSR)	40.6	41.4	38.7	41.5	41.2	40.4
Lambert (0)	41.1	40.3	40.6	43.4	39.6	41.7
OAC Kent	40.5	41.6	39.1	41.6	41.0	39.3
A00-711020	41.2	40.1	40.7	41.8	41.5	41.9
A00-711024	39.0	42.6	37.3	37.1	38.7	39.3
M95-211057	43.2	44.3	41.7	43.2	42.9	43.7
M95-227016	40.2	41.5	38.7	41.2	39.9	39.7
M95-228092	40.8	40.2	39.9	41.4	40.9	41.3
M95-255017	41.3	42.0	40.9	41.0	41.6	41.2
M95-258296	39.1	37.8	38.2	37.9	40.4	41.2
M95-261096	40.4	40.2	39.6	39.1	41.8	41.4
M95-265009	39.8	42.2	36.8	39.7	39.8	40.6
M95-265118	39.2	39.2	39.7	38.0	39.1	40.1
M96-143031	39.2	40.1	39.6	37.5	39.3	39.5
ORC 2005	41.2	43.0	40.1	41.0	40.8	40.9
ORC 2006	39.2	39.7	38.5	37.6	39.8	40.3
SD96-135-3	41.2	41.4	39.8	41.1	41.3	42.6

UNIFORM TEST I, 2002

OIL (%)

Strain	Mean 5 Tests	Ames IA	Lamberton MN	Wanatah IN	Talbotville Ont.	Brookings SD
Parker (I)	20.3	19.8	18.4	21.6	22.0	19.8
IA1008 (SCN)	19.1	18.4	17.8	18.9	22.1	18.3
IA2050 (L) (BSR)	19.4	19.0	18.0	20.1	22.2	17.8
Lambert (0)	20.7	20.6	18.5	20.5	23.6	20.3
OAC Kent	21.1	20.8	19.6	20.4	22.9	21.7
A00-711020	19.3	18.1	17.7	19.8	22.0	19.1
A00-711024	20.4	18.7	18.9	21.1	23.1	20.0
M95-211057	19.6	19.2	17.2	20.1	21.8	19.6
M95-227016	19.8	19.6	17.8	19.8	22.5	19.5
M95-228092	19.9	18.3	19.2	20.1	22.3	19.8
M95-255017	20.2	19.5	19.0	20.8	22.1	19.5
M95-258296	20.2	19.2	18.7	21.0	22.4	19.6
M95-261096	20.4	20.2	19.3	21.7	22.1	18.6
M95-265009	19.8	19.2	18.0	20.2	22.8	18.9
M95-265118	20.0	18.4	18.5	21.3	22.7	19.2
M96-143031	20.4	19.3	18.3	21.7	23.3	19.3
ORC 2005	19.7	18.8	18.0	19.8	22.7	19.1
ORC 2006	20.7	20.1	18.9	21.0	23.0	20.3
SD96-135-3	21.0	20.1	18.7	22.0	23.3	20.9

Preliminary Test I, 2002

Ent.	Strain	Parentage	Generation Composited	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 (0)	M75-274 x M76-151	F5	Rps1
5.	A01-409003	A97-874014 x A96-492041	F4	
6.	A01-409010	A97-874007 x AgriPro 1995	F4	
7.	A01-409031	A97-874014 x Pioneer 9321	F4	
8.	A01-409033	A97-874014 x Pioneer 9321	F4	
9.	A01-409050	A97-874014 x A96-492041	F4	
10.	A01-410006	Pioneer 9306 x IA1009	F4	SCN
11.	A01-410009	Pioneer 9306 x IA1009	F4	SCN
12.	A01-510020	A97-874014 x A96-492041	F4	
13.	A01-511017	A97-874014 x A96-492041	F4	
14.	M96-331013	M92-1449 X Surge	F5	Rps1-c
15.	M96-337005	MN0901 X Granite	F5	BSR
16.	M96-368038	Surge X A94-572028	F5	Rps1-k
17.	M96-385063	M92-836 X ND(M)91-895	F5	Rps1
18.	M96-403044	MN0901 X M91-113037	F5	Rps1-k
19.	OAC 01-34	OAC 96-11 x OAC 96-07	F5	
20.	OAC 01-37	OAC Atwood x OAC Millennium	F5	
21.	ORC 0101	Westag 97 x RCAT Legacy	F5	
22.	ORC 0105	SW33-08 x RCAT Legacy	F5	
23.	ORC 0106	Westag 97 x SW 33-08	F5	
24.	SD99-455	SD93-954 x Marcus 95	F5	Rps1-k
25.	SD99-469	SD93-954 x Marcus 85	F5	Rps1-K, Rps6
26.	SD99-1236	Norsoy x Erie	F5	Rps1-k
27.	SD99-1530	SD(M)93-907 x Marcus 95	F5	Rps6
28.	SD99-1909	Lambert x (Marcus x Sturdy)	F5	Rps1-a
29.	U00-419015	NE3297 x UP1C6-47	F5	

PRELIMINARY TEST I, 2002

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	Chlorosis Score Yellow Medicine Co. MN	Chlorosis Score Humboldt IA	Shatter Score Manhattan KS	St. Bruno Montarville, Que Green Stem Score	Lafayette Race 4	Lafayette Race 7
Parker (I)	WGBDYBfl	4.0	1.9	2.0	2.0	S	S
IA1008 (SCN)	WGBDYYI	4.3	2.3	2.0	1.5	H	R
IA2050 (L) (BSR)	PTBIYBll	5.0	2.6	2.0	2.0	S	R
Lambert (0)	PGBSYLbfl	4.0	1.5	2.0	1.0	S	S
A01-409003	PTBIYYI	5.0	2.5	2.0	2.0	S	S
A01-409010	PGBDYYI	5.0	2.4	2.0	2.5	S	H
A01-409031	PGBDYYI	4.0	2.1	2.0	2.0	S	S
A01-409033	PSBIYYI	4.7	2.4	2.0	2.0	S	S
A01-409050	PTBIYYI	4.3	2.3	2.0	2.0	S	S
A01-410006	P+WGBIYYI	4.0	2.1	2.0	2.0	R	R
A01-410009	WGBIYYI	4.7	1.8	2.0	1.0	S	S
A01-510020	PGBDYYI	3.7	1.8	3.0	2.5	S	H
A01-511017	PTBDYYI	4.0	2.8	2.0	3.0	S	S
M96-331013	PGTDTIbl	3.0	1.8	2.0	2.0	S	R
M96-337005	WGBDYYI	4.0	1.8	2.0	2.0	S	S
M96-368038	PTBDYIbl	3.0	1.6	1.0	1.5	R	R
M96-385063	PTBDYBrI	4.3	2.3	1.0	1.5	H	H
M96-403044	WGBIYBfl	4.7	2.3	2.0	1.5	R	R
OAC 01-34	WTBIYBrI	3.7	1.5	2.0	2.5	S	S
OAC 01-37	WTBSYBrI	4.0	1.8	2.0	2.5	S	S
ORC 0101	PGBDYBfl	5.0	2.8	2.0	2.0	H	H
ORC 0105	WGBIYYI	4.7	2.5	2.0	2.5	R	R
ORC 0106	PGBDYYI	4.7	1.9	2.0	2.0	S	S
SD99-455	WGBDYBfl	4.3	1.5	2.0	2.5	R	R
SD99-469	WTBDYBll	4.7	2.0	2.0	2.0	R	R
SD99-1236	PGBDYBfl	3.7	1.1	1.0	2.0	R	R
SD99-1530	WGBDYLbfl	4.7	2.1	1.0	2.0	S	S
SD99-1909	PGBDYBfl	5.0	2.4	2.0	1.5	R	R
U00-419015	PGTIYIbl	3.3	2.1	2.0	1.5	S	S

PRELIMINARY TEST I, 2002

DESCRIPTIVE AND DISEASE DATA

Strain	Hard Seed %	PS Lafayette a %	P&SB n %
Parker (I)	30	14	2
IA1008 (SCN)	8	20	2
IA2050 (L) (BSR)	4	8	0
Lambert (0)	26	18	0
A01-409003	0	0	6
A01-409010	0	14	2
A01-409031	0	2	0
A01-409033	0	0	0
A01-409050	0	2	10
A01-410006	16	12	2
A01-410009	0	4	2
A01-510020	8	4	0
A01-511017	0	0	0
M96-331013	8	4	0
M96-337005	4	0	0
M96-368038	30	4	2
M96-385063	10	6	0
M96-403044	20	14	0
OAC 01-34	0	4	2
OAC 01-37	4	4	4
ORC 0101	12	0	0
ORC 0105	6	6	0
ORC 0106	6	8	0
SD99-455	16	2	0
SD99-469	18	8	0
SD99-1236	36	12	0
SD99-1530	6	36	2
SD99-1909	36	20	0
U00-419015	2	2	0

PRELIMINARY TEST I, 2002

REGIONAL SUMMARY

No. of Tests Strain	Yield 12 bu/a	Rank 12 No.	Maturity 11 Date	Lodging 12 Score	Plant Height 12 In.	Seed Size 11 g/100	Seed Quality 7 Score	Green Stem 3 Score	Composition Protein 5 %	 Oil 5 %
Parker (I)	52.6	3	9/16	1.9	33	17.8	2.1	3.5	40.0	19.7
IA1008 (SCN)	48.8	17	0.5	1.3	31	17.2	2.2	2.9	40.0	19.2
IA2050 (L) (BSR)	52.8	2	1.5	1.4	29	16.5	2.1	2.7	39.8	19.4
Lambert (0)	43.2	28	-7.4	1.4	26	16.0	2.1	2.9	40.4	20.3
A01-409003	50.8	10	1.5	1.4	28	17.8	2.3	2.6	40.5	19.3
A01-409010	50.8	10	3.5	1.5	29	19.4	2.4	2.8	41.9	18.1
A01-409031	54.9	1	0.9	1.6	29	19.4	2.3	2.5	40.3	18.9
A01-409033	52.0	6	2.9	1.5	31	19.4	2.0	2.4	42.8	19.2
A01-409050	49.7	14	1.3	1.3	28	20.4	2.4	3.1	41.2	19.7
A01-410006	51.0	9	0.3	1.6	29	14.1	2.2	2.3	39.8	19.8
A01-410009	52.5	4	1.0	1.7	31	13.2	2.1	2.7	38.1	20.5
A01-510020	49.5	15	2.7	1.3	28	19.3	2.3	3.1	41.3	19.1
A01-511017	51.6	7	4.9	1.4	29	18.5	2.2	3.2	41.2	19.7
M96-331013	46.3	22	-0.3	1.4	30	16.5	1.9	2.2	39.8	20.1
M96-337005	41.0	29	-5.3	1.4	28	17.7	1.9	2.7	40.2	19.6
M96-368038	46.3	22	-6.1	1.2	28	16.5	2.4	2.2	42.1	18.9
M96-385063	50.1	13	-4.7	1.4	30	17.5	2.2	1.9	40.4	19.0
M96-403044	46.7	20	-4.5	1.5	31	16.2	2.0	2.2	38.9	19.5
OAC 01-34	44.4	36	0.5	1.6	32	15.3	2.0	2.8	39.4	19.9
OAC 01-37	47.7	19	3.5	1.6	36	15.3	1.7	2.4	38.5	20.4
ORC 0101	51.4	8	0.3	1.2	27	18.5	1.8	2.9	40.1	20.2
ORC 0105	50.6	12	0.5	1.6	28	16.9	2.2	3.5	40.1	19.8
ORC 0106	52.3	5	1.9	1.3	31	18.0	2.1	2.3	40.4	19.0
SD99-455	46.0	24	0.2	1.5	27	16.6	2.0	3.4	40.0	19.6
SD99-469	45.4	25	-1.3	1.3	26	19.5	2.5	3.7	39.8	20.4
SD99-1236	46.6	21	-4.5	1.3	30	14.1	2.1	2.2	41.1	19.4
SD99-1530	43.8	27	-2.6	1.3	27	16.1	2.1	3.2	39.4	20.1
SD99-1909	48.4	18	-3.6	1.5	27	16.5	2.1	2.7	40.6	20.3
U00-419015	49.4	16	-1.4	1.5	29	18.6	2.5	2.7	41.2	19.3

122.4 Days After Planting

PRELIMINARY TEST I, 2002

YIELD (bu/a)

Strain	Mean 12 Tests	Ames IA	Fayette IA	Ingham County MI	Lamberton MN	Waseca MN	Cotesfield NE
Parker (I)	52.6	57.2	46.9	51.4	48.5	66.0	68.9
IA1008 (SCN)	48.8	61.4	42.4	48.4	45.1	57.0	68.5
IA2050 (L) (BSR)	52.8	65.4	55.3	49.4	46.4	62.8	67.6
Lambert (0)	43.2	45.5	40.7	51.2	42.3	47.4	66.4
A01-409003	50.8	61.0	35.0	46.8	49.2	68.9	63.8
A01-409010	50.8	61.6	49.3	47.6	45.5	58.5	62.6
A01-409031	54.9	66.3	58.1	49.3	45.5	68.8	63.1
A01-409033	52.0	56.1	44.2	50.2	47.6	60.5	64.4
A01-409050	49.7	62.7	46.4	42.5	39.7	59.6	58.4
A01-410006	51.0	62.5	48.5	47.6	48.1	57.4	62.4
A01-410009	52.5	65.4	47.2	50.0	51.8	56.3	63.9
A01-510020	49.5	59.4	49.1	45.4	39.0	57.5	62.6
A01-511017	51.6	63.9	47.6	46.3	52.4	58.3	69.6
M96-331013	46.3	48.0	34.4	52.9	43.8	49.2	68.8
M96-337005	41.0	41.7	29.4	49.9	34.9	51.1	62.1
M96-368038	46.3	43.4	36.6	51.9	40.8	54.9	65.4
M96-385063	50.1	51.6	45.9	47.9	43.3	56.0	75.7
M96-403044	46.7	48.9	38.6	43.8	44.4	57.9	61.6
OAC 01-34	44.4	53.4	42.9	49.8	40.1	47.3	73.4
OAC 01-37	47.7	57.4	50.3	41.7	36.9	46.4	65.3
ORC 0101	51.4	57.9	38.7	52.9	42.6	55.1	71.6
ORC 0105	50.6	51.6	42.8	55.2	43.2	61.2	66.5
ORC 0106	52.3	59.8	46.8	46.7	45.2	53.5	66.2
SD99-455	46.0	52.9	40.8	46.3	38.9	58.0	70.3
SD99-469	45.4	44.5	39.2	51.4	39.4	52.9	59.1
SD99-1236	46.6	52.1	39.9	47.0	41.0	55.5	61.9
SD99-1530	43.8	54.2	25.7	48.4	41.6	54.0	64.3
SD99-1909	48.4	55.0	37.8	53.2	44.5	59.2	63.9
U00-419015	49.4	60.5	47.5	47.2	43.0	58.6	63.5
C.V. (%)		5.8	12.7	11.1	9.3	7.6	8.2
L.S.D. (5%)		6.6	11.2	9.2	8.3	8.8	10.8
Row Sp. (In.)		27	27	15	10	10	30
Rows/Plot		4	4	6	4	4	4
Reps		2	2	2	2	2	2

PRELIMINARY TEST I, 2002

YIELD (bu/a)

Strain	Palmyra NE	Chatham Ont	Talbotville Ont	St. Bruno Montarville Que.	Brookings SD	Watertown SD
Parker (I)	50.6	74.7	48.5	38.5	40.1	39.5
IA1008 (SCN)	45.5	67.7	34.1	36.3	39.4	39.6
IA2050 (L) (BSR)	50.1	71.4	39.9	40.1	43.2	41.8
Lambert (0)	31.6	46.2	48.4	30.5	32.7	35.8
A01-409003	49.7	68.6	49.8	36.5	35.5	45.3
A01-409010	49.8	59.4	50.5	34.6	41.2	48.8
A01-409031	51.1	66.6	42.3	41.4	42.5	63.4
A01-409033	58.2	72.6	47.6	35.2	38.3	48.9
A01-409050	49.0	70.5	45.5	36.0	35.5	50.0
A01-410006	49.1	66.3	40.3	35.7	45.6	48.0
A01-410009	51.1	67.3	48.2	33.3	45.2	50.2
A01-510020	47.7	69.7	47.5	35.2	39.4	41.8
A01-511017	53.9	70.2	40.9	29.6	43.2	42.9
M96-331013	40.6	58.5	51.5	36.6	36.3	34.9
M96-337005	32.5	52.5	37.4	32.2	38.1	29.8
M96-368038	40.9	64.6	48.2	34.6	38.8	35.0
M96-385063	42.9	66.9	52.2	41.8	40.9	36.0
M96-403044	46.1	58.8	41.9	33.8	45.5	39.5
OAC 01-34		66.2	47.3	36.6	39.1	37.2
OAC 01-37	54.7	63.4	46.7	33.9	40.5	35.6
ORC 0101	47.6	72.7	49.7	42.1	43.1	43.1
ORC 0105	46.3	68.7	52.2	35.7	39.9	44.2
ORC 0106	56.8	76.2	49.4	38.8	44.8	44.0
SD99-455	44.0	60.2	41.7	36.4	33.9	28.4
SD99-469	39.4	64.0	37.2	36.4	41.6	39.7
SD99-1236	38.9	62.0	45.5	36.1	43.3	36.0
SD99-1530	34.7	51.7	46.9	34.9	32.5	36.2
SD99-1909	36.0	65.1	47.7	38.6	39.7	39.6
U00-419015	43.0	68.6	39.3	35.5	43.9	42.7
C.V. (%)	9.8	7.8	11.5	6.6	10.4	12.5
L.S.D. (5%)		7.0	11.1	5.4	6.7	8.4
Row Sp. (In.)	30	17	14	7	30	30
Rows/Plot	4	5	4	5	4	4
Reps	2	3	2	2	2	2

PRELIMINARY TEST I, 2002

YIELD RANK

Strain	Yield Rank	Ames IA	Fayette IA	Ingham County MI	Lamberton MN	Waseca MN	Cotesfield NE
Parker (I)	3	15	10	6	4	3	6
IA1008 (SCN)	17	8	17	15	11	16	8
IA2050 (L) (BSR)	2	2	2	13	7	4	9
Lambert (0)	28	26	19	8	19	27	11
A01-409003	10	9	26	22	3	1	19
A01-409010	10	7	4	18	8	10	22
A01-409031	1	1	1	14	8	2	21
A01-409033	6	16	14	9	6	6	15
A01-409050	14	5	12	28	24	7	29
A01-410006	9	6	6	19	5	15	24
A01-410009	4	2	9	10	2	17	17
A01-510020	15	12	5	26	26	14	22
A01-511017	7	4	7	24	1	11	5
M96-331013	22	25	27	3	14	26	7
M96-337005	29	29	28	11	29	25	25
M96-368038	22	28	25	5	22	21	13
M96-385063	13	22	13	17	15	18	1
M96-403044	20	24	23	27	13	13	27
OAC 01-34	36	19	15	12	23	28	2
OAC 01-37	19	14	3	29	28	29	14
ORC 0101	8	13	22	4	18	20	3
ORC 0105	12	22	16	1	16	5	10
ORC 0106	5	11	11	23	10	23	12
SD99-455	24	20	18	25	27	12	4
SD99-469	25	27	21	7	25	24	28
SD99-1236	21	21	20	21	21	19	26
SD99-1530	27	18	29	16	20	22	16
SD99-1909	18	17	24	2	12	8	17
U00-419015	16	10	8	20	17	9	20

PRELIMINARY TEST I, 2002

YIELD RANK

Strain	Palmyra NE	Chatham Ont	Talbotville Ont	St. Bruno Montarville Que.	Brookings SD	Watertown SD
Parker (I)	7	2	8	7	15	18
IA1008 (SCN)	17	11	29	13	18	16
IA2050 (L) (BSR)	8	5	25	4	7	13
Lambert (0)	28	28	9	28	28	24
A01-409003	10	10	5	10	25	7
A01-409010	9	23	4	22	12	5
A01-409031	5	14	19	3	10	1
A01-409033	1	4	24	19	22	4
A01-409050	12	6	17	15	25	3
A01-410006	11	15	23	17	1	6
A01-410009	5	12	10	26	3	2
A01-510020	13	8	13	20	18	13
A01-511017	4	7	22	29	7	11
M96-331013	22	25	3	9	24	27
M96-337005	27	26	27	27	23	28
M96-368038	21	18	10	23	21	26
M96-385063	20	13	1	2	13	22
M96-403044	16	24	20	25	2	19
OAC 01-34		16	14	8	20	20
OAC 01-37	3	20	16	24	14	25
ORC 0101	14	3	6	1	9	10
ORC 0105	15	9	1	16	16	8
ORC 0106	2	1	7	5	4	9
SD99-455	18	22	21	12	27	29
SD99-469	23	19	28	11	11	15
SD99-1236	24	21	17	14	6	22
SD99-1530	26	27	15	21	29	21
SD99-1909	25	17	12	6	17	16
U00-419015	19	10	26	18	5	12

PRELIMINARY TEST I, 2002

MATURITY (date)

Strain	Mean 11 Tests	Ames IA	Fayette IA	Ingham County MI	Lamberton MN	Waseca MN	Cotesfield NE
Parker (I)	9/16	9/3		9/17	9/26	9/26	9/7
IA1008 (SCN)	0.5	4		-2	-1	0	1
IA2050 (L) (BSR)	1.5	8		-2	-2	-2	4
Lambert (0)	-7.4	-13		-5	-12	-14	0
A01-409003	1.5	3		0	0	0	3
A01-409010	3.5	7		1	0	1	6
A01-409031	0.9	6		-1	-4	1	2
A01-409033	2.9	8		-3	-2	0	10
A01-409050	1.3	3		-2	-1	0	3
A01-410006	0.3	6		-2	1	-1	-1
A01-410009	1.0	6		-2	0	-1	5
A01-510020	2.7	7		0	1	0	3
A01-511017	4.9	7		1	5	1	10
M96-331013	-0.3	-7		-4	5	5	2
M96-337005	-5.3	-9		-5	-10	-10	-1
M96-368038	-6.1	-8		-5	-11	-13	-2
M96-385063	-4.7	-7		-5	-10	-11	1
M96-403044	-4.5	-6		-4	-11	-10	0
OAC 01-34	0.5	0		-2	-1	-4	2
OAC 01-37	3.5	10		0	4	4	5
ORC 0101	0.3	2		-4	-3	-2	3
ORC 0105	0.5	2		1	-4	0	1
ORC 0106	1.9	4		-3	-1	-1	9
SD99-455	0.2	-1		-1	0	0	4
SD99-469	-1.3	-3		-2	0	-3	3
SD99-1236	-4.5	-3		-4	-10	-10	-1
SD99-1530	-2.6	-3		-4	-4	-5	0
SD99-1909	-3.6	-3		-2	-4	-10	-2
U00-419015	-1.4	1		-2	-6	-6	1
Date Planted	5/17	5/4	5/15	5/8	5/14	5/16	5/21
Days to Mature	122	122		132	135	133	109

PRELIMINARY TEST I, 2002

MATURITY (date)

Strain	Palmyra NE	Chatham Ont	Talbotville Ont	St. Bruno Montarville Que.	Brookings SD	Watertown SD
Parker (I)	9/14	9/13	9/10	10/3	9/15	9/17
IA1008 (SCN)	0	2	-2	1	1	1
IA2050 (L) (BSR)	4	4	-2	0	2	2
Lambert (0)	-7	-6	-3	-10	-6	-5
A01-409003	6	2	-2	3	-2	3
A01-409010	8	5	4	4	-1	3
A01-409031	-1	1	0	1	2	3
A01-409033	6	3	-1	2	2	7
A01-409050	4	1	-2	2	3	3
A01-410006	-3	3	-1	-1	1	1
A01-410009	-2	3	0	-1	2	1
A01-510020	8	4	-1	2	4	2
A01-511017	10	6	-2	5	4	7
M96-331013	-6	-2	-2	-2	1	7
M96-337005	-8	-5	-4	-6	-2	2
M96-368038	-6	-6	-3	-9	-3	-1
M96-385063	-6	-5	-4	-4	-3	2
M96-403044	-6	-4	-5	-8	-2	-2
OAC 01-34	Late	-1	0	2	3	7
OAC 01-37	5	6	-4	-3	5	7
ORC 0101	7	-1	-1	0	0	2
ORC 0105	2	0	-1	2	0	2
ORC 0106	6	2	-2	3	1	3
SD99-455	-1	1	-1	1	-1	1
SD99-469	-1	-1	-4	-2	-1	0
SD99-1236	-7	-3	-3	-6	-1	-2
SD99-1530	-6	0	-3	-4	0	0
SD99-1909	-6	-1	-3	-6	-1	-2
U00-419015	-5	2	-1	0	0	1
Date Planted	5/30	5/28	5/22	5/20	5/13	5/14
Days to Mature	107	108	111	136	125	126

PRELIMINARY TEST I, 2002

LODGING (score)

Strain	Mean 12 Tests	Ames IA	Fayette IA	Ingham County MI	Lamberton MN	Waseca MN	Cotesfield NE
Parker (I)	1.9	3.3	1.5	4.5	2.0	2.5	2.0
IA1008 (SCN)	1.3	2.5	1.0	1.5	2.0	1.5	1.0
IA2050 (L) (BSR)	1.4	2.0	1.3	2.0	2.0	2.0	1.0
Lambert (0)	1.4	2.0	1.3	3.0	2.0	1.5	1.0
A01-409003	1.4	2.3	1.5	2.5	1.5	2.0	1.0
A01-409010	1.5	2.5	1.5	2.0	2.0	2.0	1.5
A01-409031	1.6	2.8	1.5	3.0	2.0	2.5	1.0
A01-409033	1.5	2.0	1.5	3.0	2.0	2.5	1.0
A01-409050	1.3	2.3	1.3	1.5	2.0	2.0	1.0
A01-410006	1.6	3.0	1.5	3.0	2.0	2.0	1.0
A01-410009	1.7	2.8	1.5	3.0	2.0	2.0	1.5
A01-510020	1.3	2.0	1.5	2.0	2.0	1.5	1.0
A01-511017	1.4	2.3	1.0	2.0	2.0	2.0	1.0
M96-331013	1.4	2.0	1.0	1.5	2.5	2.5	1.0
M96-337005	1.4	2.3	1.0	2.0	2.0	2.0	1.0
M96-368038	1.2	2.0	1.0	1.5	1.5	1.5	1.0
M96-385063	1.4	2.5	1.5	2.0	2.0	1.5	1.0
M96-403044	1.5	2.5	1.5	2.0	2.0	2.0	1.5
OAC 01-34	1.6	2.5	1.5	3.0	2.0	2.0	1.5
OAC 01-37	1.6	2.5	1.8	2.0	2.0	2.5	1.5
ORC 0101	1.2	2.0	1.0	1.5	2.0	1.0	1.0
ORC 0105	1.6	2.5	1.5	3.5	2.0	2.0	1.0
ORC 0106	1.3	2.5	1.0	1.5	2.0	1.0	1.0
SD99-455	1.5	2.5	1.3	2.0	2.0	2.0	1.0
SD99-469	1.3	2.0	1.5	1.5	2.0	1.5	1.0
SD99-1236	1.3	2.3	1.3	1.5	2.0	1.0	1.0
SD99-1530	1.3	2.0	1.0	2.5	2.0	1.0	1.0
SD99-1909	1.5	3.0	1.3	4.0	2.0	1.0	1.0
U00-419015	1.5	2.5	1.5	2.5	2.0	2.0	1.0

PRELIMINARY TEST I, 2002

LODGING (score)

Strain	Palmyra NE	Chatham Ont	Talbotville Ont	St. Bruno Montarville Que.	Brookings SD	Watertown SD
Parker (I)	1.5	1.0	1.0	1.0	1.0	1.0
IA1008 (SCN)	1.0	1.0	1.0	1.0	1.0	1.0
IA2050 (L) (BSR)	1.0	1.0	1.0	1.0	1.0	1.0
Lambert (0)	1.0	1.0	1.0	1.0	1.0	1.0
A01-409003	1.0	1.0	1.0	1.0	1.0	1.0
A01-409010	1.0	1.0	1.0	1.0	1.0	1.0
A01-409031	1.0	1.0	1.0	1.0	1.0	1.0
A01-409033	1.0	1.0	1.0	1.0	1.0	1.0
A01-409050	1.0	1.0	1.0	1.0	1.0	1.0
A01-410006	1.5	1.0	1.0	1.0	1.0	1.0
A01-410009	2.0	1.0	1.0	1.0	1.0	2.0
A01-510020	1.0	1.0	1.0	1.0	1.0	1.0
A01-511017	1.0	1.0	1.0	1.0	1.0	1.0
M96-331013	1.0	1.0	1.0	1.0	1.0	1.0
M96-337005	1.0	1.0	1.0	1.0	1.0	1.0
M96-368038	1.0	1.0	1.0	1.0	1.0	1.0
M96-385063	1.0	1.0	1.0	1.0	1.0	1.0
M96-403044	1.0	1.3	1.0	1.0	1.0	1.0
OAC 01-34	2.0	1.0	1.0	1.0	1.0	1.0
OAC 01-37	2.0	1.0	1.0	1.0	1.0	1.0
ORC 0101	1.0	1.0	1.0	1.0	1.0	1.0
ORC 0105	1.0	1.0	1.0	1.0	1.0	2.0
ORC 0106	1.0	1.0	1.0	1.0	1.0	2.0
SD99-455	1.0	1.0	1.0	1.0	1.0	2.0
SD99-469	1.0	1.0	1.0	1.0	1.0	1.0
SD99-1236	1.0	1.0	1.0	1.0	1.0	1.0
SD99-1530	1.0	1.0	1.0	1.0	1.0	1.0
SD99-1909	1.0	1.0	1.0	1.0	1.0	1.0
U00-419015	1.0	1.0	1.0	2.0	1.0	1.0

PRELIMINARY TEST I, 2002

PLANT HEIGHT (inches)

Strain	Mean 12 Tests	Ames IA	Fayette IA	Ingham County MI	Lamberton MN	Waseca MN	Cotesfield NE
Parker (I)	33	33	31	40	33	38	35
IA1008 (SCN)	31	33	31	37	30	39	30
IA2050 (L) (BSR)	29	30	29	35	27	35	31
Lambert (0)	26	24	27	32	26	30	27
A01-409003	28	28	22	34	26	30	29
A01-409010	29	32	27	31	30	34	30
A01-409031	29	28	28	31	28	33	29
A01-409033	31	33	27	32	30	35	33
A01-409050	28	30	26	30	27	33	31
A01-410006	29	33	28	33	29	34	27
A01-410009	31	31	28	37	31	34	37
A01-510020	28	29	28	34	26	32	25
A01-511017	29	29	25	29	29	36	33
M96-331013	30	23	29	32	36	42	29
M96-337005	28	31	27	34	26	34	28
M96-368038	28	29	28	32	29	31	28
M96-385063	30	31	28	29	30	34	35
M96-403044	31	30	28	30	33	34	35
OAC 01-34	32	31	29	33	28	34	42
OAC 01-37	36	36	35	41	37	39	40
ORC 0101	27	26	23	28	26	31	26
ORC 0105	28	25	27	31	28	30	29
ORC 0106	31	28	25	31	34	34	37
SD99-455	27	26	26	28	26	33	32
SD99-469	26	24	25	29	25	31	26
SD99-1236	30	30	27	30	33	33	33
SD99-1530	27	26	26	32	29	32	28
SD99-1909	27	27	25	30	27	30	26
U00-419015	29	30	28	29	29	30	30

PRELIMINARY TEST I, 2002

PLANT HEIGHT (inches)

Strain	Palmyra NE	Chatham Ont	Talbotville Ont	St. Bruno Montarville Que.	Brookings SD	Watertown SD
Parker (I)	34	37	30	29	28	32
IA1008 (SCN)	30	35	24	31	24	31
IA2050 (L) (BSR)	27	32	26	35	22	22
Lambert (0)	23	23	26	34	20	26
A01-409003	24	31	28	33	22	23
A01-409010	27	30	28	36	27	22
A01-409031	27	31	23	34	26	25
A01-409033	32	34	30	32	27	27
A01-409050	26	33	24	31	23	25
A01-410006	31	30	25	33	24	25
A01-410009	29	31	28	30	27	24
A01-510020	26	31	26	31	27	26
A01-511017	27	31	23	34	25	23
M96-331013	28	29	28	34	23	23
M96-337005	26	29	26	32	25	21
M96-368038	27	28	26	32	25	22
M96-385063	32	30	30	34	28	24
M96-403044	33	32	23	31	33	25
OAC 01-34	37	31	36	29	25	27
OAC 01-37	32	39	36	35	32	29
ORC 0101	24	33	27	31	24	24
ORC 0105	26	26	31	35	26	27
ORC 0106	31	35	28	39	27	26
SD99-455	26	29	23	33	20	21
SD99-469	26	28	22	29	23	22
SD99-1236	29	32	28	32	27	26
SD99-1530	25	29	27	29	22	24
SD99-1909	24	27	24	29	25	24
U00-419015	26	31	25	36	25	25

PRELIMINARY TEST I, 2002

SEED SIZE (g/100)

Strain	Mean 11 Tests	Ames IA	Fayette IA	Ingham County MI	Lamberton MN	Waseca MN	Cotesfield NE
Parker (I)	17.8	16.3	17.3	16.9	16.9	17.5	18.1
IA1008 (SCN)	17.2	17.2	18.1	15.6	16.2	17.6	18.6
IA2050 (L) (BSR)	16.5	17.3	17.7	14.6	15.3	16.4	16.4
Lambert (0)	16.0	15.6	15.0	14.1	16.8	16.7	17.9
A01-409003	17.8	17.3	18.0	17.8	17.3	18.4	17.5
A01-409010	19.4	19.1	19.8	18.0	18.2	20.5	19.6
A01-409031	19.4	19.7	20.0	17.1	18.6	19.8	20.5
A01-409033	19.4	20.8	19.9	15.5	18.2	20.7	20.3
A01-409050	20.4	20.3	21.5	17.6	19.4	21.5	19.8
A01-410006	14.1	13.9	14.7	12.4	13.1	14.2	14.9
A01-410009	13.2	13.1	14.3	12.0	13.1	13.5	12.8
A01-510020	19.3	19.6	20.6	18.1	17.1	20.6	20.8
A01-511017	18.5	20.3	18.9	17.7	15.3	20.4	17.4
M96-331013	16.5	15.4	17.3	15.3	15.4	15.2	16.8
M96-337005	17.7	15.5	18.4	15.2	16.3	18.6	18.6
M96-368038	16.5	15.1	16.6	15.8	14.3	16.4	18.8
M96-385063	17.5	15.8	17.9	15.2	16.4	16.5	18.4
M96-403044	16.2	15.3	15.3	14.7	15.3	16.1	17.7
OAC 01-34	15.3	15.9	17.2	15.4	18.4	16.5	15.8
OAC 01-37	15.3	14.9	16.0	12.6	14.8	13.8	14.0
ORC 0101	18.5	18.2	17.9	17.9	17.2	18.6	20.7
ORC 0105	16.9	17.3	17.4	16.6	17.2	17.5	16.9
ORC 0106	18.0	17.7	18.8	16.3	17.1	20.0	17.1
SD99-455	16.6	16.7	16.5	15.1	15.1	17.5	17.4
SD99-469	19.5	18.3	19.0	17.2	18.1	18.7	20.5
SD99-1236	14.1	12.8	14.6	12.7	12.8	13.9	16.0
SD99-1530	16.1	15.5	16.0	14.7	14.9	16.0	17.6
SD99-1909	16.5	16.3	16.2	15.4	14.8	16.6	17.1
U00-419015	18.6	18.9	20.6	16.9	16.9	19.0	19.1

PRELIMINARY TEST I, 2002

SEED SIZE (g/100)

Strain	Palmyra NE	Chatham Ont	Talbotville Ont	St. Bruno Montarville Que.	Brookings SD	Watertown SD
Parker (I)	18.8		17.1	18.1	18.7	20.0
IA1008 (SCN)	16.6		15.5	17.3	17.9	19.0
IA2050 (L) (BSR)	16.5		15.0	17.7	15.5	19.2
Lambert (0)	14.7		14.3	15.7	16.5	18.8
A01-409003	17.3		16.2	18.9	17.4	19.6
A01-409010	18.4		18.9	22.2	18.0	21.0
A01-409031	19.0		17.2	19.9	19.9	21.5
A01-409033	19.3		18.1	19.8	19.0	21.3
A01-409050	21.2		19.0	22.3	19.8	22.2
A01-410006	13.5		13.8	14.3	15.0	15.4
A01-410009	12.4		12.6	13.2	13.7	14.4
A01-510020	18.1		18.3	20.7	17.5	21.0
A01-511017	17.4		16.3	22.4	16.7	20.6
M96-331013	15.4		16.6	16.6	17.8	19.6
M96-337005	17.1		16.2	17.4	20.6	20.4
M96-368038	16.2		16.2	17.0	17.0	18.6
M96-385063	16.0		17.9	18.8	19.4	20.2
M96-403044	15.5		15.6	15.7	18.7	18.4
OAC 01-34			16.1	17.0	16.4	19.8
OAC 01-37	17.0		16.1	18.3	15.3	15.3
ORC 0101	17.9		16.9	18.8	18.7	21.0
ORC 0105	17.0		15.0	16.6	17.2	17.7
ORC 0106	17.8		16.8	19.3	17.0	20.2
SD99-455	16.0		16.3	16.7	16.4	18.4
SD99-469	17.6		19.3	20.3	21.3	24.3
SD99-1236	13.4		14.1	14.6	13.8	15.9
SD99-1530	15.8		14.3	16.4	18.7	17.6
SD99-1909	16.1		16.1	16.8	18.0	17.6
U00-419015	16.5		18.2	19.8	17.1	21.5

PRELIMINARY TEST I, 2002

SEED QUALITY (score)

Strain	Mean 7 Tests	Ames IA	Fayette IA	Ingham County MI	Lamberton MN	Waseca MN	Cotesfield NE
Parker (I)	2.1				4.0	2.5	
IA1008 (SCN)	2.2				4.0	2.5	
IA2050 (L) (BSR)	2.1				4.0	3.0	
Lambert (0)	2.1				3.5	2.5	
A01-409003	2.3				3.0	3.0	
A01-409010	2.4				3.5	3.5	
A01-409031	2.3				4.0	2.5	
A01-409033	2.0				3.0	2.0	
A01-409050	2.4				4.0	3.0	
A01-410006	2.2				3.5	2.0	
A01-410009	2.1				3.0	2.0	
A01-510020	2.3				3.5	2.5	
A01-511017	2.2				4.0	3.0	
M96-331013	1.9				3.0	3.0	
M96-337005	1.9				3.0	3.0	
M96-368038	2.4				4.0	3.0	
M96-385063	2.2				4.0	2.5	
M96-403044	2.0				3.0	2.0	
OAC 01-34	2.0				3.0	2.5	
OAC 01-37	1.7				3.0	3.0	
ORC 0101	1.8				3.0	2.5	
ORC 0105	2.2				4.0	3.0	
ORC 0106	2.1				3.5	2.5	
SD99-455	2.0				3.5	3.0	
SD99-469	2.5				3.5	3.0	
SD99-1236	2.1				4.0	2.5	
SD99-1530	2.1				3.5	2.5	
SD99-1909	2.1				3.5	3.0	
U00-419015	2.5				4.0	2.5	

PRELIMINARY TEST I, 2002

SEED QUALITY (score)

Strain	Palmyra NE	Chatham Ont	Talbotville Ont	St. Bruno Montarville Que.	Brookings SD	Watertown SD
Parker (I)		2.0	1.5	1.0	2.0	2.0
IA1008 (SCN)		1.3	1.5	1.0	3.0	2.0
IA2050 (L) (BSR)		1.0	2.5	1.0	2.0	1.0
Lambert (0)		2.0	1.5	1.0	2.0	2.0
A01-409003		1.3	1.5	2.0	3.0	2.0
A01-409010		1.0	2.0	2.0	2.0	3.0
A01-409031		1.7	1.5	1.5	3.0	2.0
A01-409033		1.0	1.5	1.5	3.0	2.0
A01-409050		1.3	1.5	2.0	3.0	2.0
A01-410006		1.7	2.0	1.0	3.0	2.0
A01-410009		1.0	1.5	1.0	3.0	3.0
A01-510020		1.3	2.0	1.5	3.0	2.0
A01-511017		1.0	1.5	1.0	4.0	1.0
M96-331013		1.3	1.0	1.0	2.0	2.0
M96-337005		1.0	1.5	1.0	2.0	2.0
M96-368038		2.0	1.5	1.0	3.0	2.0
M96-385063		1.3	1.5	1.0	3.0	2.0
M96-403044		1.3	1.5	1.0	2.0	3.0
OAC 01-34		1.3	1.5	2.0	2.0	2.0
OAC 01-37		1.7	1.5	1.0	1.0	1.0
ORC 0101		1.3	1.5	1.0	1.0	2.0
ORC 0105		1.7	1.5	1.0	2.0	2.0
ORC 0106		1.0	1.5	2.0	2.0	2.0
SD99-455		1.3	1.5	1.0	2.0	2.0
SD99-469		1.5	2.5	1.0	4.0	2.0
SD99-1236		1.0	1.5	1.0	3.0	2.0
SD99-1530		1.3	1.5	1.0	2.0	3.0
SD99-1909		1.7	1.5	1.0	2.0	2.0
U00-419015		1.3	2.5	1.0	3.0	3.0

PRELIMINARY TEST I, 2002

GREEN STEM (score)

Strain	Mean 3 Tests	Palmyra NE	Chatham Ont	Talbotville Ont
Parker (I)	3.5	5.0	4.0	1.5
IA1008 (SCN)	2.9	4.0	3.3	1.5
IA2050 (L) (BSR)	2.7	3.0	2.7	2.5
Lambert (0)	2.9	5.0	2.3	1.5
A01-409003	2.6	3.0	3.3	1.5
A01-409010	2.8	3.0	3.3	2.0
A01-409031	2.5	3.0	3.0	1.5
A01-409033	2.4	3.0	2.7	1.5
A01-409050	3.1	4.0	3.7	1.5
A01-410006	2.3	2.0	3.0	2.0
A01-410009	2.7	4.0	2.7	1.5
A01-510020	3.1	4.0	3.3	2.0
A01-511017	3.2	4.0	4.0	1.5
M96-331013	2.2	3.0	2.7	1.0
M96-337005	2.7	4.0	2.7	1.5
M96-368038	2.2	3.0	2.0	1.5
M96-385063	1.9	2.0	2.3	1.5
M96-403044	2.2	3.0	2.0	1.5
OAC 01-34	2.8		4.0	1.5
OAC 01-37	2.4	3.0	2.7	1.5
ORC 0101	2.9	4.0	3.3	1.5
ORC 0105	3.5	5.0	4.0	1.5
ORC 0106	2.3	3.0	2.3	1.5
SD99-455	3.4	5.0	3.7	1.5
SD99-469	3.7	5.0	3.5	2.5
SD99-1236	2.2	3.0	2.0	1.5
SD99-1530	3.2	5.0	3.0	1.5
SD99-1909	2.7	4.0	2.7	1.5
U00-419015	2.7	2.0	3.7	2.5

PRELIMINARY TEST I, 2002

PROTEIN (%)

Strain	Mean 5 Tests	Ames IA	Lamberton MN	Waseca MN	Ingham Co. MI	Talbotville ONT
Parker (I)	40.0	40.2	40.1	38.4	41.2	39.9
IA1008 (SCN)	40.0	41.9	38.9	38.5	39.9	40.7
IA2050 (L) (BSR)	39.8	39.2	39.0	37.7	41.4	41.9
Lambert (0)	40.4	42.7	41.3	38.3	41.1	38.7
A01-409003	40.5	39.8	38.4	37.9	45.6	40.9
A01-409010	41.9	43.6	41.1	40.3	42.8	41.7
A01-409031	40.3	43.4	40.1	31.2	43.8	43.1
A01-409033	42.8	44.4	41.8	42.0	42.5	43.3
A01-409050	41.2	41.2	40.1	38.7	43.4	42.5
A01-410006	39.8	40.8	37.7	37.8	41.3	41.3
A01-410009	38.1	39.0	36.3	36.2	40.2	38.8
A01-510020	41.3	42.3	39.6	38.8	43.9	42.0
A01-511017	41.2	41.5	38.8	40.2	43.6	41.7
M96-331013	39.8	40.6	39.5	36.7	42.0	40.4
M96-337005	40.2	42.2	39.7	39.1	40.6	39.4
M96-368038	42.1	44.1	40.7	39.7	42.4	43.6
M96-385063	40.4	41.2	39.6	39.0	40.9	41.2
M96-403044	38.9	39.0	38.2	37.6	39.5	40.3
OAC 01-34	39.4	41.0	39.0	37.4	41.9	37.7
OAC 01-37	38.5	39.9	35.6	35.7	40.8	40.3
ORC 0101	40.1	41.5	39.0	38.4	42.1	39.5
ORC 0105	40.1	40.4	41.0	38.9	41.2	39.0
ORC 0106	40.4	42.1	40.4	38.2	40.7	40.6
SD99-455	40.0	41.0	39.5	37.8	42.2	39.6
SD99-469	39.8	40.2	39.8	38.1	40.2	40.7
SD99-1236	41.1	41.4	41.4	40.6	41.0	41.0
SD99-1530	39.4	39.2	38.8	38.1	41.6	39.2
SD99-1909	40.6	41.1	39.8	39.2	42.4	40.2
U00-419015	41.2	42.2	39.8	36.8	43.8	43.6

PRELIMINARY TEST I, 2002

OIL (%)

Strain	Mean 5 Tests	Ames IA	Lamberton MN	Waseca MN	Ingham Co. MI	Talbotville ONT
Parker (I)	19.7	19.6	18.3	20.0	18.5	22.2
IA1008 (SCN)	19.2	18.6	19.0	19.0	18.4	21.1
IA2050 (L) (BSR)	19.4	18.8	19.3	19.8	17.4	21.6
Lambert (0)	20.3	19.8	19.3	19.8	19.3	23.5
A01-409003	19.3	19.1	19.8	19.0	17.6	21.3
A01-409010	18.1	17.5	18.1	18.1	16.4	20.6
A01-409031	18.9	17.8	17.8	21.0	17.6	20.3
A01-409033	19.2	18.6	18.9	19.2	17.8	21.3
A01-409050	19.7	19.1	19.4	19.1	19.1	21.6
A01-410006	19.8	19.1	19.2	20.1	18.8	21.7
A01-410009	20.5	20.0	20.2	19.9	19.5	22.9
A01-510020	19.1	19.3	18.3	18.0	18.5	21.7
A01-511017	19.7	19.0	19.8	18.9	19.1	21.6
M96-331013	20.1	20.0	19.4	20.0	18.5	22.5
M96-337005	19.6	18.9	18.4	18.9	19.3	22.5
M96-368038	18.9	18.7	18.1	18.7	18.3	20.9
M96-385063	19.0	18.3	18.1	18.5	18.2	21.8
M96-403044	19.5	19.0	18.5	19.1	18.9	22.1
OAC 01-34	19.9	18.6	19.2	19.0	19.4	23.2
OAC 01-37	20.4	20.5	20.5	20.0	19.0	22.2
ORC 0101	20.2	18.6	19.8	19.8	19.4	23.1
ORC 0105	19.8	18.8	19.0	19.5	18.8	22.9
ORC 0106	19.0	18.3	18.8	19.1	17.7	21.3
SD99-455	19.6	19.1	19.6	18.8	18.1	22.2
SD99-469	20.4	20.4	19.3	19.4	20.1	22.8
SD99-1236	19.4	18.9	18.2	18.3	18.9	22.6
SD99-1530	20.1	20.0	19.5	19.4	18.5	22.9
SD99-1909	20.3	19.8	19.9	19.7	20.0	21.9
U00-419015	19.3	18.9	19.4	19.6	17.9	20.9

Uniform Test II, 2002

Ent.	Strain	Parentage	Previous Testing	Generation Composited	Unique Traits
1	IA2021 (II)	Elgin 87 x Marcus	7	F5	
2.	IA1008 (SCN)	Northrup King S20-20 x Jack	4	F5	SCN
3.	IA2052 (L)	Northrup King S24-92 x Parker	3	F5	
4.	Loda (SCN)	Jack x IA3003	PTII	F5	SCN
5.	A00-711003	A95-485020 x IA2036	PTIIA	F5	SCN
6.	A00-711013	AgriPro P1953 x LN94-10470	PTIIA	F5	SCN
7.	A00-711025	Pioneer P9233 x IA2036	PTIIA	F5	
8.	A00-812031	AgriPro P1953 x IA3010	PTIIA	F5	
9.	E98076	Dairyland DSR-217 x Northrup King S19-90	1	F7	
10.	E99034	IA2021 x Apollo	PTIIB	F6	
11.	E99069	Colfax x Dairyland DSR-217	PTIIB	F6	
12.	E99250	Pioneer P9281 x Northrup King S19-90	PTIIB	F6	
13.	E99301	Jack x Pioneer P9281	PTIIB	F6	
14.	HF99-019	IA2022 x Archer	PTIIIA	F5	Rps1-k; BSR
15.	LG98-1452	LG91-7431 x Pioneer 9273	PTIIB	F6	
16.	ORC 2008	Westag 97 x Jacques J-251	PTIIA	F5	
17.	ORC 2009	Northrup King S24-92 x Pioneer 9305	PTIIA	F5	

UNIFORM TEST II, 2002

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	Chlorosis Score Yellow Medicine Co. MN	Chlorosis Score Humboldt IA	Shattering Score Manhattan	PR Lafayette Race 4	PR Lafayette Race 7	Hard Seed %	PS Lafayette a %	P&SB n %
IA2021 (II)	WTBSYBII	5.0	2.3	2.0	R	R	42	4	0
IA1008 (SCN)	WGBDYYI	4.3	2.5	2.0	H	R	8	20	2
IA2052 (L)	WGBIYBfI	4.3	2.8	2.0	S	S	4	22	2
Loda (SCN)	PGBIYGrI	5.0	3.1	2.0	H	H	8	0	2
A00-711003	PGBDYYI	4.7	2.6	2.0	R	R	2	18	0
A00-711013	WGBSYYI	3.7	2.5	2.0	S	R	0	18	0
A00-711025	PTBSYYI	3.0	2.4	3.0	S	S	0	10	0
A00-812031	PTSDYBII	3.0	1.6	1.0	R	R	0	22	4
E98076	PTTDYBII	3.7	1.9	1.0	S	R	4	14	10
E99034	PGBSYYI	4.0	2.0	1.0	R	R	2	2	0
E99069	WTTDYBII	2.7	1.8	4.0	S	R	4	2	2
E99250	PTBIYBII	4.3	2.1	2.0	R	R	14	14	2
E99301	PTBIYLbrI	4.0	1.9	2.0	R	R	6	26	4
HF99-019	PGTSYIbI	3.7	3.0	3.0	R	R	0	28	0
LG98-1452	PTBIYLbII	5.0	2.9	2.0	S	S	2	4	4
ORC 2008	PTTDYBrI	5.0	2.5	2.0	S	S	8	8	0
ORC 2009	PGBDYYI	4.7	3.0	2.0	H	H	0	8	2

UNIFORM TEST II, 2002

REGIONAL SUMMARY

No. of Tests Strain	Yield 19 bu/a	Rank 19 No.	Maturity 19 Date	Lodging 20 Score	Plant Height 20 In.	Seed Size 19 g/100	Seed Quality 14 Score	Green Stem 4 Score	Composition Protein 5 %	 Oil 5 %
IA2021 (II)	50.0	16	9/12	1.5	28	15.8	2.2	1.8	36.9	21.8
IA1008 (SCN)	51.7	15	-1.8	1.4	32	16.3	2.4	2.2	39.4	19.6
IA2052 (L)	58.4	1	4.1	1.6	35	14.7	1.9	2.4	40.1	19.8
Loda (SCN)	49.5	17	3.3	1.4	28	16.3	2.5	2.0	38.3	20.8
A00-711003	53.4	7	0.9	1.4	29	15.0	2.2	2.0	38.6	20.0
A00-711013	55.1	2	0.6	1.4	29	13.3	2.2	2.0	36.0	20.2
A00-711025	52.0	13	-0.9	2.3	35	12.7	2.1	1.5	37.9	19.8
A00-812031	54.7	4	3.1	1.4	29	14.1	1.9	1.3	36.4	20.8
E98076	52.3	12	3.8	1.4	33	15.1	2.2	3.3	36.4	20.2
E99034	53.5	5	2.9	1.2	30	17.0	1.9	2.0	36.7	21.4
E99069	53.1	8	5.7	1.5	35	13.8	1.8	2.9	38.2	19.6
E99250	53.0	9	3.8	1.4	29	16.1	2.2	2.3	38.0	21.1
E99301	52.6	10	2.4	1.4	30	14.5	2.1	1.8	38.5	20.4
HF99-019	51.9	14	8.9	1.8	37	14.9	2.2	1.8	39.2	19.0
LG98-1452	53.5	5	6.1	1.6	33	16.1	2.1	2.1	39.4	21.2
ORC 2008	52.4	11	5.8	1.8	31	14.4	2.1	2.2	39.2	20.2
ORC 2009	55.1	2	6.1	1.3	30	15.6	2.3	2.0	39.2	19.9

117.2 Days After Planting

UNIFORM TEST II, 2002

2001-2002 2-YEAR MEAN

No. of Tests Strain	Yield 37 bu/a	Rank 37 No.	Maturity 36 Date	Lodging 38 Score	Plant Height 37 In.	Seed Size 36 g/100	Seed Quality 25 Score	Green Stem 11 Score	Composition Protein 9 %	 Oil 9 %
IA2021 (II)	50.8	3	9/16	1.5	31	15.8	2.0	1.9	37.0	22.3
IA2052 (L)	55.3	1	4.7	1.8	36	14.4	1.9	2.3	40.0	20.4
E98076	53.2	2	3.9	1.4	35	15.0	2.0	2.9	36.7	20.9

120.9 Days After Planting

UNIFORM TEST II, 2002

YIELD (bu/a)

Strain	Mean 19 Tests	Fayetteville* irrigated AR	Keiser* irrigated AR	Rohwer* irrigated AR	Ames IA	Rippey IA	Dekalb IL
IA2021 (II)	50.0	65.6	26.8	30.5	56.2	58.6	45.2
IA1008 (SCN)	51.7	63.0	22.9	17.4	55.3	60.5	40.5
IA2052 (L)	58.4	70.7	33.1	23.3	71.0	59.9	50.5
Loda (SCN)	49.5	39.5	21.9	44.1	57.8	54.7	44.8
A00-711003	53.4	51.2	33.9	28.5	62.7	57.3	52.3
A00-711013	55.1	61.9	24.4	24.8	67.0	58.3	50.7
A00-711025	52.0	54.2	21.4	17.5	67.2	55.6	43.8
A00-812031	54.7	61.1	52.1	33.1	69.2	55.7	49.8
E98076	52.3	51.4	13.2	30.9	63.9	52.5	47.2
E99034	53.5	53.4	47.3	25.6	61.6	57.6	49.4
E99069	53.1	57.4	30.3	32.6	61.0	50.2	46.2
E99250	53.0	50.6	16.1	39.6	65.9	57.3	42.9
E99301	52.6	64.1	30.7	31.9	61.7	57.9	45.0
HF99-019	51.9	46.1	53.1	33.0	63.8	56.4	51.2
LG98-1452	53.5	64.9	46.4	35.7	64.8	52.9	48.2
ORC 2008	52.4	55.3	49.4	41.6	67.9	50.8	44.0
ORC 2009	55.1	63.3	34.5	34.1	68.1	56.1	48.7
C.V. (%)		11.3	18.1	15.5	5.1	3.1	8.6
L.S.D. (5%)		12.0	12.8	8.3	6.9	3.7	6.8
Row Sp. (In.)		7.5	15.0	15.0	27	27	30
Rows/Plot		7	5	5	4	4	4
Reps		3	3	3	2	2	3

* Data not included in mean.

UNIFORM TEST II, 2002

YIELD RANK

Strain	Yield Rank	Fayetteville* irrigated AR	Keiser* irrigated AR	Rohwer* irrigated AR	Ames IA	Rippey IA	Dekalb IL
IA2021 (II)	16	2	11	11	16	3	11
IA1008 (SCN)	15	6	13	17	17	1	17
IA2052 (L)	1	1	8	15	1	2	4
Loda (SCN)	17	17	14	1	15	13	13
A00-711003	7	14	7	12	11	7	1
A00-711013	2	7	12	14	6	4	3
A00-711025	13	11	15	16	5	12	15
A00-812031	4	8	2	6	2	11	5
E98076	12	13	17	10	9	15	9
E99034	5	12	4	13	13	6	6
E99069	8	9	10	8	14	17	10
E99250	9	15	16	3	7	7	16
E99301	10	4	9	9	12	5	12
HF99-019	14	16	1	7	10	9	2
LG98-1452	5	3	5	4	8	14	8
ORC 2008	11	10	3	2	4	16	14
ORC 2009	2	5	6	5	3	10	7

* Data not included in mean.

UNIFORM TEST II, 2002

YIELD (bu/a)

Strain	Dewight IL	Urbana IL	Lafayette IN	Wanatah IN	Ingham County MI	Lenawee County MI	Lamberton MN
IA2021 (II)	46.2	36.6	46.3	22.5	47.5	61.3	54.8
IA1008 (SCN)	51.4	48.2	52.8	33.9	49.5	60.2	50.6
IA2052 (L)	55.2	54.0	51.7	46.9	48.8	70.7	52.5
Loda (SCN)	55.0	47.1	60.2	32.7	36.8	61.2	43.9
A00-711003	52.2	53.6	54.1	35.0	51.2	58.6	47.8
A00-711013	55.7	51.3	55.9	38.9	45.0	60.5	55.4
A00-711025	39.5	37.8	48.5	35.3	43.9	60.0	55.1
A00-812031	54.4	48.8	51.1	45.4	38.4	60.6	46.9
E98076	52.5	53.2	56.1	44.7	40.7	57.3	47.1
E99034	47.2	42.4	50.5	41.3	44.1	63.7	49.3
E99069	48.7	49.0	53.4	42.0	43.7	59.1	43.3
E99250	47.0	43.9	53.6	37.7	47.9	60.6	50.6
E99301	47.7	46.5	51.6	35.9	49.6	60.7	43.3
HF99-019	51.0	51.2	56.9	33.7	36.3	50.8	42.4
LG98-1452	55.0	49.5	56.2	46.6	38.7	53.6	41.3
ORC 2008	49.3	52.0	47.2	38.1	37.0	57.2	45.8
ORC 2009	52.6	47.7	53.5	35.8	40.4	64.4	44.8
C.V. (%)	7.4	9.3	6.8	16.5	6.6	4.4	10.9
L.S.D. (5%)	6.2	7.4	6.0	10.4	5.0	4.6	8.7
Row Sp. (In.)	30	30	24	26	15	15	10
Rows/Plot	4	4	4	4	6	6	10
Reps	3	3	3	3	2	2	3

UNIFORM TEST II, 2002

YIELD RANK

Strain	Dewight IL	Urbana IL	Lafayette IN	Wanatah IN	Ingham County MI	Lenawee County MI	Lamberton MN
IA2021 (II)	16	17	17	17	6	4	3
IA1008 (SCN)	9	10	10	14	3	10	5
IA2052 (L)	2	1	11	1	4	1	4
Loda (SCN)	3	12	1	16	16	5	13
A00-711003	8	2	6	13	1	13	8
A00-711013	1	5	5	7	7	9	1
A00-711025	17	16	15	12	9	11	2
A00-812031	5	9	13	3	14	7	10
E98076	7	3	4	4	11	14	9
E99034	14	15	14	6	8	3	7
E99069	12	8	9	5	10	12	14
E99250	15	14	7	9	5	8	5
E99301	13	13	12	10	2	6	14
HF99-019	10	6	2	15	17	17	16
LG98-1452	3	7	3	2	13	16	17
ORC 2008	11	4	16	8	15	15	11
ORC 2009	6	11	8	11	12	2	12

UNIFORM TEST II, 2002

YIELD (bu/a)

Strain	Waseca MN	Cotesfield NE	Palmyra NE	Hoytville OH	Wooster* OH
IA2021 (II)	67.4	74.1	42.5	43.1	16.0
IA1008 (SCN)	61.6	77.0	39.1	37.2	13.0
IA2052 (L)	63.1	84.7	57.3	50.5	23.3
Loda (SCN)	57.2	69.5	47.7	47.0	2.4
A00-711003	63.1	79.1	40.6	48.2	14.0
A00-711013	62.8	76.5	49.0	48.2	21.1
A00-711025	65.8	77.5	37.1	39.2	10.8
A00-812031	59.9	77.8	55.4	55.3	19.1
E98076	60.3	75.7	41.0	47.0	22.1
E99034	67.2	75.3	56.8	47.0	18.6
E99069	56.9	79.1	49.4	49.6	17.1
E99250	62.9	74.3	38.5	49.2	25.9
E99301	65.1	70.7	45.2	50.9	29.8
HF99-019	54.1	71.0	61.2	53.9	27.3
LG98-1452	61.9	71.8	61.0	53.8	20.5
ORC 2008	58.0	76.4	58.0	52.5	26.3
ORC 2009	61.2	74.8	60.2	52.8	25.9
C.V. (%)	7.2	5.0	10.6	7.2	20.5
L.S.D. (5%)	7.4	8.1	11.1	4.8	5.7
Row Sp. (In.)	10	30	30	7.5	7.5
Rows/Plot	10	4	4	8	8
Reps	3	2	2	3	3

* Data not included in mean.

UNIFORM TEST II, 2002

YIELD RANK

Strain	Waseca MN	Cotesfield NE	Palmyra NE	Hoytville OH	Wooster OH
IA2021 (II)	1	13	12	15	13
IA1008 (SCN)	10	6	15	17	15
IA2052 (L)	5	1	5	7	6
Loda (SCN)	15	17	10	12	17
A00-711003	5	2	14	10	14
A00-711013	8	7	9	10	8
A00-711025	3	5	17	16	16
A00-812031	13	4	7	1	10
E98076	12	9	13	12	7
E99034	2	10	6	12	11
E99069	16	2	8	8	12
E99250	7	12	16	9	4
E99301	4	16	11	6	1
HF99-019	17	15	1	2	2
LG98-1452	9	14	2	3	9
ORC 2008	14	8	4	5	3
ORC 2009	11	11	3	4	4

UNIFORM TEST II, 2002

YIELD (bu/a)

Strain	Harrow Ont	Chatham Ont.	Beresford SD	Brookings SD	Arlington WI
IA2021 (II)	49.2	67.8	29.6	33.7	67.4
IA1008 (SCN)	56.9	72.4	38.1	36.2	60.0
IA2052 (L)	55.2	84.3	46.2	40.0	67.9
Loda (SCN)	48.4	75.0	9.6	26.0	65.4
A00-711003	52.3	70.6	28.7	41.3	65.4
A00-711013	51.6	75.9	42.2	36.6	66.2
A00-711025	57.8	74.9	42.1	40.8	66.2
A00-812031	56.4	75.0	31.1	42.3	65.4
E98076	52.2	72.2	31.2	38.7	60.3
E99034	54.3	73.2	35.5	36.6	63.3
E99069	55.6	75.7	39.9	39.3	67.4
E99250	53.8	78.2	35.8	40.8	66.0
E99301	52.9	69.2	40.5	40.4	64.3
HF99-019	51.5	63.0	48.5	37.3	52.7
LG98-1452	54.9	72.7	40.2	36.9	57.1
ORC 2008	47.4	73.1	37.2	39.2	64.3
ORC 2009	58.8	73.3	46.1	39.8	67.4
C.V. (%)	6.0	7.0	17.4	9.3	9.5
L.S.D. (5%)	3.4	7.1	8.0	4.7	8.4
Row Sp. (In.)	18	17	30	30	15
Rows/Plot	5	5	4	4	8
Reps	3	3	3	3	3

UNIFORM TEST II, 2002

YIELD RANK

Strain	Harrow Ont	Chatham Ont.	Beresford SD	Brookings SD	Arlington WI
IA2021 (II)	15	15	15	16	2
IA1008 (SCN)	3	11	9	15	15
IA2052 (L)	6	1	2	6	1
Loda (SCN)	16	5	17	17	8
A00-711003	11	13	16	2	8
A00-711013	13	3	4	13	5
A00-711025	2	6	5	3	5
A00-812031	4	5	14	1	8
E98076	12	12	13	10	14
E99034	8	8	12	13	13
E99069	5	4	8	8	2
E99250	9	2	11	3	7
E99301	10	14	6	5	11
HF99-019	14	16	1	11	17
LG98-1452	7	10	7	12	16
ORC 2008	17	9	10	9	11
ORC 2009	1	7	3	7	2

UNIFORM TEST II, 2002

MATURITY (date)

Strain	Mean 19 Tests	Fayetteville* irrigated AR	Keiser* irrigated AR	Rohwer* irrigated AR	Ames IA	Rippey IA	Dekalb IL
IA2021 (II)	9/12	8/18		7/28	9/6		9/19
IA1008 (SCN)	-1.8	-3		-11	-2		-6
IA2052 (L)	4.1	0		-8	9		3
Loda (SCN)	3.3	1		2	7		3
A00-711003	0.9	0		-6	4		-2
A00-711013	0.6	1		-9	4		1
A00-711025	-0.9	0		-11	1		-4
A00-812031	3.1	0		-5	9		2
E98076	3.8	1		-6	6		-1
E99034	2.9	1		3	5		4
E99069	5.7	1		-5	8		1
E99250	3.8	2		-1	6		2
E99301	2.4	2		-5	8		-1
HF99-019	8.9	3		7	17		6
LG98-1452	6.1	3		-2	10		3
ORC 2008	5.8	2		0	10		1
ORC 2009	6.1	2		-2	11		5
Date Planted	5/18	4/25	4/25	4/16	5/4	5/21	5/7
Days to Mature	117	115		103	125		135

* Data not included in mean.

UNIFORM TEST II, 2002

LODGING (score)

Strain	Mean 20 Tests	Fayetteville* irrigated AR	Keiser* irrigated AR	Rohwer* irrigated AR	Ames IA	Rippey IA	Dekalb IL
IA2021 (II)	1.5			1.0	2.3	2.8	1.0
IA1008 (SCN)	1.4			1.0	2.3	2.5	1.0
IA2052 (L)	1.6			1.0	2.3	2.0	1.0
Loda (SCN)	1.4			1.0	2.0	1.8	1.0
A00-711003	1.4			1.0	2.3	1.5	1.0
A00-711013	1.4			1.0	2.5	2.8	1.0
A00-711025	2.3			1.0	4.3	2.8	2.0
A00-812031	1.4			1.0	2.0	3.0	1.0
E98076	1.4			1.0	2.0	1.5	1.0
E99034	1.2			1.0	2.0	2.0	1.0
E99069	1.5			1.0	2.3	1.8	1.0
E99250	1.4			1.0	2.0	1.8	1.0
E99301	1.4			1.0	2.0	1.8	1.0
HF99-019	1.8			1.0	2.5	2.5	1.0
LG98-1452	1.6			1.0	2.3	2.3	1.0
ORC 2008	1.8			1.0	2.8	3.3	1.0
ORC 2009	1.3			1.0	2.0	1.8	1.0

* Data not included in mean.

UNIFORM TEST II, 2002

MATURITY (date)

Strain	Dewight IL	Urbana IL	Lafayette IN	Wanatah IN	Ingham County MI	Lenawee County MI	Lamberton MN
IA2021 (II)	9/12	9/19	9/19	9/8	9/16	9/18	10/3
IA1008 (SCN)	-1	-2	-2	-1	-2	-3	4
IA2052 (L)	6	2	1	6	2	6	8
Loda (SCN)	2	9	4	4	-2	1	2
A00-711003	0	-1	0	2	-1	1	5
A00-711013	1	-1	-1	2	0	-2	1
A00-711025	-2	-4	-1	3	-2	1	3
A00-812031	3	1	2	8	0	2	1
E98076	5	6	8	10	1	2	8
E99034	3	2	2	7	0	4	-1
E99069	6	6	7	9	1	4	7
E99250	5	10	7	7	2	3	4
E99301	5	6	1	5	1	2	2
HF99-019	11	11	10	12	6	9	9
LG98-1452	8	8	5	11	2	5	7
ORC 2008	6	8	3	10	1	4	5
ORC 2009	7	8	3	11	3	5	5
Date Planted	5/23	6/3	6/3	5/23	5/8	5/28	5/21
Days to Mature	112	108	108	108	131	113	135

UNIFORM TEST II, 2002

LODGING (score)

Strain	Dewight IL	Urbana IL	Lafayette IN	Wanatah IN	Ingham County MI	Lenawee County MI	Lamberton MN
IA2021 (II)	1.5	1.0	1.0	1.0	1.5	2.0	2.7
IA1008 (SCN)	1.3	1.0	1.0	1.0	1.5	2.0	3.0
IA2052 (L)	1.7	1.2	1.0	1.0	2.0	2.5	3.7
Loda (SCN)	1.7	1.0	1.0	1.0	1.0	1.0	3.3
A00-711003	1.8	1.0	1.0	1.0	2.0	1.5	2.7
A00-711013	1.3	1.0	1.0	1.0	1.5	1.0	2.3
A00-711025	2.3	2.0	1.8	1.0	3.0	3.0	4.7
A00-812031	1.3	1.0	1.0	1.0	1.0	2.0	3.0
E98076	1.3	1.0	1.0	1.0	1.0	1.5	4.0
E99034	1.0	1.0	1.0	1.0	1.0	1.0	2.0
E99069	1.5	1.2	1.0	1.0	2.0	2.0	3.3
E99250	1.7	1.0	1.0	1.0	1.5	1.5	2.7
E99301	1.5	1.2	1.0	1.0	1.5	1.5	2.3
HF99-019	2.2	1.2	1.2	1.0	1.5	3.5	2.7
LG98-1452	1.7	1.0	1.2	1.0	1.5	2.5	3.7
ORC 2008	2.7	1.0	1.0	1.0	2.0	2.5	3.3
ORC 2009	1.0	1.0	1.0	1.0	1.0	2.0	2.0

UNIFORM TEST II, 2002

MATURITY (date)

Strain	Waseca MN	Cotesfield NE	Palmyra NE	Hoytville OH	Wooster OH
IA2021 (II)	9/28	9/11	9/19	9/19	9/6
IA1008 (SCN)	-3	-2	-3	-4	-4
IA2052 (L)	1	4	6	4	1
Loda (SCN)	1	7	5	2	5
A00-711003	0	4	0	-1	-1
A00-711013	0	1	-1	-1	-2
A00-711025	0	-1	-2	-3	-3
A00-812031	1	8	2	5	1
E98076	1	6	2	2	-0
E99034	0	2	7	6	1
E99069	2	12	9	5	2
E99250	1	6	1	2	2
E99301	0	3	1	1	3
HF99-019	5	19	12	1	6
LG98-1452	2	10	7	6	4
ORC 2008	3	13	9	7	6
ORC 2009	2	9	7	8	3
Date Planted	5/16	5/21	5/30	6/1	5/3
Days to Mature	135	113	112	110	126

UNIFORM TEST II, 2002

LODGING (score)

Strain	Waseca MN	Cotesfield NE	Palmyra NE	Hoytville OH	Wooster OH
IA2021 (II)	2.0	1.0	1.0	1.3	1.4
IA1008 (SCN)	1.7	1.0	1.5	1.3	1.3
IA2052 (L)	2.7	1.0	1.5	1.3	1.3
Loda (SCN)	2.7	1.5	1.0	1.3	1.3
A00-711003	2.3	1.0	1.5	1.3	1.3
A00-711013	2.0	1.0	1.0	1.3	1.3
A00-711025	3.7	2.0	3.0	1.3	1.3
A00-812031	2.7	1.0	1.0	1.3	1.3
E98076	2.0	1.0	1.0	1.2	1.3
E99034	1.0	1.0	1.0	1.2	1.3
E99069	2.3	1.5	1.0	1.3	1.3
E99250	2.0	1.0	1.0	1.3	1.3
E99301	2.0	1.0	1.0	1.3	1.3
HF99-019	3.7	2.0	1.0	1.3	1.3
LG98-1452	2.3	1.0	2.0	1.3	1.3
ORC 2008	2.7	1.0	1.0	1.3	1.3
ORC 2009	2.3	1.0	1.0	1.3	1.3

UNIFORM TEST II, 2002

MATURITY (date)

Strain	Harrow Ont	Chatham Ont.	Beresford SD	Brookings SD	Arlington WI
IA2021 (II)	9/17	9/16	9/19	9/20	9/18
IA1008 (SCN)	-3	0	-5	-1	5
IA2052 (L)	4	6	-1	1	9
Loda (SCN)	4	4	-2	-2	8
A00-711003	3	3	0	-1	3
A00-711013	4	3	0	-1	4
A00-711025	-1	4	-4	-2	1
A00-812031	6	3	1	0	5
E98076	2	4	3	-1	10
E99034	5	2	0	-1	8
E99069	7	7	1	-1	14
E99250	7	5	-1	-1	4
E99301	5	2	1	-1	1
HF99-019	9	8	4	1	14
LG98-1452	8	9	2	0	9
ORC 2008	7	8	4	-2	6
ORC 2009	7	6	5	1	10
Date Planted	5/28	5/28	5/10	5/13	5/1
Days to Mature	112	111	132	130	140

UNIFORM TEST II, 2002

LODGING (score)

Strain	Harrow Ont	Chatham Ont.	Beresford SD	Brookings SD	Arlington WI
IA2021 (II)	1.0	1.3	1.0	1.0	1.7
IA1008 (SCN)	1.0	1.3	1.0	1.0	1.0
IA2052 (L)	1.0	1.7	1.0	1.0	1.3
Loda (SCN)	1.0	1.0	1.0	1.0	2.0
A00-711003	1.0	1.0	1.0	1.0	1.3
A00-711013	1.0	1.0	1.0	1.0	1.3
A00-711025	1.0	2.7	1.0	1.0	3.0
A00-812031	1.0	1.3	1.0	1.0	1.0
E98076	1.0	1.0	1.0	1.0	1.3
E99034	1.0	1.0	1.0	1.0	1.0
E99069	1.0	1.3	1.0	1.0	1.3
E99250	1.0	1.0	1.0	1.0	1.3
E99301	1.0	1.0	2.0	1.0	1.0
HF99-019	1.0	1.3	1.0	1.0	2.3
LG98-1452	1.0	1.7	1.0	1.0	2.0
ORC 2008	1.0	2.3	1.0	1.0	2.0
ORC 2009	1.0	1.0	1.0	1.0	1.0

UNIFORM TEST II, 2002

PLANT HEIGHT (inches)

Strain	Mean 20 Tests	Fayetteville* irrigated AR	Keiser* irrigated AR	Rohwer* irrigated AR	Ames IA	Rippey IA	Dekalb IL
IA2021 (II)	28	27		15	29	38	25
IA1008 (SCN)	32	29		9	32	43	28
IA2052 (L)	35	33		12	40	44	31
Loda (SCN)	28	29		15	25	36	25
A00-711003	29	26		11	30	34	23
A00-711013	29	28		12	30	41	26
A00-711025	35	31		13	34	43	32
A00-812031	29	28		15	29	41	24
E98076	33	29		12	34	44	26
E99034	30	27		13	31	38	27
E99069	35	31		12	36	45	28
E99250	29	28		13	27	37	25
E99301	30	27		12	32	37	25
HF99-019	37	38		23	41	46	32
LG98-1452	33	31		14	37	39	29
ORC 2008	31	31		15	33	38	26
ORC 2009	30	30		14	32	37	25

* Data not included in mean.

UNIFORM TEST II, 2002

SEED SIZE (g/100)

Strain	Mean 19 Tests	Fayetteville* irrigated AR	Keiser* irrigated AR	Rohwer* irrigated AR	Ames IA	Rippey IA	Dekalb IL
IA2021 (II)	15.8	17.1	14.7	15.4	15.2	16.1	15.3
IA1008 (SCN)	16.3	19.3	13.9	15.9	16.5	17.4	14.4
IA2052 (L)	14.7	13.8	14.7	14.2	15.0	14.8	14.0
Loda (SCN)	16.3	13.9	15.6	17.1	16.1	16.4	15.2
A00-711003	15.0	13.4	14.3	16.5	14.9	15.0	14.7
A00-711013	13.3	14.3	11.0	13.5	12.7	13.5	13.1
A00-711025	12.7	13.2	11.8	13.8	12.8	13.6	12.1
A00-812031	14.1	13.5	12.6	13.9	15.0	15.2	12.6
E98076	15.1	16.2	14.7	15.8	15.8	14.9	14.4
E99034	17.0	17.8	14.4	16.3	17.9	17.1	17.2
E99069	13.8	13.7	14.3	14.9	15.0	13.2	14.0
E99250	16.1	16.1	15.4	17.2	16.9	16.1	15.5
E99301	14.5	16.5	13.7	14.7	14.9	14.5	13.9
HF99-019	14.9	12.9	12.4	14.4	16.9	15.4	14.2
LG98-1452	16.1	15.6	15.0	17.2	16.8	16.6	15.5
ORC 2008	14.4	13.4	13.3	16.2	14.6	14.3	12.8
ORC 2009	15.6	14.9	14.4	15.6	15.0	15.1	14.9

* Data not included in mean.

UNIFORM TEST II, 2002

PLANT HEIGHT (inches)

Strain	Dewight IL	Urbana IL	Lafayette IN	Wanatah IN	Ingham County MI	Lenawee County MI	Lamberton MN
IA2021 (II)	30	27	30	24	33	32	37
IA1008 (SCN)	35	29	36	28	34	40	44
IA2052 (L)	38	35	35	33	39	39	42
Loda (SCN)	32	26	31	27	27	33	34
A00-711003	30	25	31	25	32	33	38
A00-711013	33	26	31	26	31	31	38
A00-711025	33	33	37	32	38	41	50
A00-812031	34	27	29	27	27	32	39
E98076	36	31	36	30	33	39	48
E99034	34	27	32	29	29	35	37
E99069	39	34	38	32	38	40	45
E99250	32	27	31	26	32	37	37
E99301	35	26	32	28	35	36	38
HF99-019	40	33	40	35	41	48	46
LG98-1452	36	30	33	31	35	40	41
ORC 2008	33	28	32	28	33	35	38
ORC 2009	33	27	31	27	31	35	40

UNIFORM TEST II, 2002

SEED SIZE (g/100)

Strain	Dewight IL	Urbana IL	Lafayette IN	Wanatah IN	Ingham County MI	Lenawee County MI	Lamberton MN
IA2021 (II)	15.5	18.9	17.4	13.9	14.2	15.6	15.4
IA1008 (SCN)	15.6	19.3	19.3	14.7	15.7	16.4	17.3
IA2052 (L)	14.6	17.8	15.2	13.4	13.0	14.0	15.6
Loda (SCN)	15.2	21.2	18.5	13.8	14.6	15.6	16.6
A00-711003	15.0	17.9	15.8	13.2	13.2	13.8	16.1
A00-711013	15.2	15.9	14.0	12.2	11.7	12.3	13.5
A00-711025	14.7	13.1	13.8	11.0	11.1	12.8	13.2
A00-812031	15.2	16.3	13.8	12.1	12.5	13.1	13.8
E98076	15.0	18.2	17.0	14.2	13.5	14.0	15.9
E99034	15.8	20.2	18.8	13.8	14.8	16.6	18.1
E99069	14.1	15.8	15.0	11.5	11.9	12.5	15.2
E99250	15.5	19.8	17.5	14.0	14.3	15.5	16.3
E99301	15.2	17.4	15.2	12.4	13.1	13.9	15.0
HF99-019	15.4	19.1	17.0	12.5	12.4	12.9	14.8
LG98-1452	14.9	19.4	18.6	13.4	13.4	14.7	16.3
ORC 2008	14.3	18.6	14.3	11.7	12.4	13.1	15.1
ORC 2009	16.4	19.2	16.0	13.6	13.9	13.6	15.1

UNIFORM TEST II, 2002

PLANT HEIGHT (inches)

Strain	Waseca MN	Cotesfield NE	Palmyra NE	Hoytville OH	Wooster OH
IA2021 (II)	33	34	24	23	15
IA1008 (SCN)	40	36	29	25	15
IA2052 (L)	36	40	36	27	19
Loda (SCN)	32	31	27	24	14
A00-711003	37	32	26	26	16
A00-711013	37	34	27	24	17
A00-711025	39	40	33	29	17
A00-812031	34	33	26	24	16
E98076	37	35	29	25	18
E99034	35	33	28	25	17
E99069	42	42	30	30	19
E99250	35	35	27	25	18
E99301	35	33	24	25	18
HF99-019	41	46	34	32	18
LG98-1452	36	40	30	30	17
ORC 2008	37	37	29	28	18
ORC 2009	35	34	28	23	16

UNIFORM TEST II, 2002

SEED SIZE (g/100)

Strain	Waseca MN	Cotesfield NE	Palmyra NE	Hoytville OH	Wooster OH
IA2021 (II)	16.1	17.6	16.6	14.9	13.4
IA1008 (SCN)	17.1	19.1	17.0	14.0	12.0
IA2052 (L)	14.3	15.3	16.0	13.8	12.2
Loda (SCN)	17.8	16.1	17.9	14.1	12.8
A00-711003	16.1	17.3	16.2	13.3	11.5
A00-711013	13.9	13.6	13.7	11.6	10.9
A00-711025	13.2	13.4	12.8	10.9	9.9
A00-812031	15.4	15.1	14.7	13.3	10.6
E98076	15.3	16.8	15.1	12.6	12.2
E99034	19.0	17.5	19.4	13.3	12.5
E99069	13.6	15.6	14.3	12.6	10.7
E99250	17.0	17.6	15.9	13.8	12.5
E99301	15.7	14.7	15.2	12.6	10.9
HF99-019	13.8	13.9	18.9	14.1	11.7
LG98-1452	16.8	16.4	18.8	14.9	12.9
ORC 2008	14.5	14.5	17.1	13.1	13.2
ORC 2009	15.9	15.8	17.6	13.7	14.3

UNIFORM TEST II, 2002

PLANT HEIGHT (inches)

Strain	Harrow Ont	Chatham Ont.	Beresford SD	Brookings SD	Arlington WI
IA2021 (II)	23	33	21	25	32
IA1008 (SCN)	27	39	24	26	38
IA2052 (L)	28	40	29	28	39
Loda (SCN)	23	37	20	24	34
A00-711003	23	34	22	25	30
A00-711013	23	33	23	25	34
A00-711025	26	37	27	30	42
A00-812031	22	33	20	27	32
E98076	24	38	22	28	38
E99034	21	37	26	24	32
E99069	29	41	27	26	39
E99250	25	35	19	27	32
E99301	24	33	31	25	32
HF99-019	32	39	27	29	43
LG98-1452	26	39	23	31	38
ORC 2008	24	37	23	28	35
ORC 2009	23	34	24	25	34

UNIFORM TEST II, 2002

SEED SIZE (g/100)

Strain	Harrow Ont	Chatham Ont.	Beresford SD	Brookings SD	Arlington WI
IA2021 (II)	14.5		15.6	16.3	17.7
IA1008 (SCN)	14.6		15.7	16.2	17.5
IA2052 (L)	13.7		16.0	15.6	14.8
Loda (SCN)	14.7		17.7	17.1	18.9
A00-711003	13.4		14.1	17.8	16.4
A00-711013	12.3		13.5	13.6	14.7
A00-711025	11.9		12.6	14.1	14.0
A00-812031	13.5		13.5	16.4	15.8
E98076	14.3		14.8	17.2	16.3
E99034	15.7		18.3	17.5	18.8
E99069	12.6		13.4	15.8	16.3
E99250	15.4		17.2	17.1	17.5
E99301	13.3		14.9	16.4	15.5
HF99-019	13.5		15.8	15.1	16.0
LG98-1452	15.5		16.2	16.4	17.6
ORC 2008	13.9		15.3	15.2	15.9
ORC 2009	14.3		16.3	17.8	17.1

UNIFORM TEST II, 2002

SEED QUALITY (score)

Strain	Mean 14 Tests	Fayetteville* irrigated AR	Keiser* irrigated AR	Rohwer* irrigated AR	Ames IA	Rippey IA	Dekalb IL
IA2021 (II)	2.2	2.8	2.8	3.7			2.0
IA1008 (SCN)	2.4	3.3	2.3	3.3			3.0
IA2052 (L)	1.9	2.7	2.0	3.3			3.0
Loda (SCN)	2.5	3.5	2.5	3.5			2.0
A00-711003	2.2	2.5	3.0	3.3			2.5
A00-711013	2.2	3.3	3.0	3.0			3.0
A00-711025	2.1	3.3	3.0	3.0			2.5
A00-812031	1.9	3.2	2.5	3.0			2.0
E98076	2.2	3.5	2.0	2.5			2.0
E99034	1.9	3.2	2.0	4.0			2.5
E99069	1.8	2.8	2.0	3.0			2.0
E99250	2.2	4.0	3.0	3.5			2.0
E99301	2.1	2.8	2.5	3.0			2.0
HF99-019	2.2	4.3	2.0	3.0			2.5
LG98-1452	2.1	3.5	2.5	3.0			2.0
ORC 2008	2.1	3.7	3.3	3.0			2.5
ORC 2009	2.3	2.8	2.0	2.7			3.0

* Data not included in mean.

UNIFORM TEST II, 2002

SEED QUALITY (score)

Strain	Dewight IL	Urbana IL	Lafayette IN	Wanatah IN	Ingham County MI	Lenawee County MI	Lamberton MN
IA2021 (II)	2.0	2.0	1.0	2.0			4.0
IA1008 (SCN)	2.5	2.0	2.0	1.5			3.3
IA2052 (L)	2.0	1.0	1.0	1.5			3.3
Loda (SCN)	2.0	2.5	1.0	2.5			4.0
A00-711003	2.0	2.0	1.0	2.5			3.7
A00-711013	3.0	2.0	1.0	1.5			3.3
A00-711025	2.5	2.5	1.0	1.5			2.7
A00-812031	2.5	2.0	1.0	1.5			3.0
E98076	2.0	2.0	1.0	1.0			4.0
E99034	2.0	2.0	1.0	1.5			2.3
E99069	2.5	1.5	1.0	1.0			2.7
E99250	2.0	3.0	2.0	1.0			3.0
E99301	3.0	2.0	1.0	1.5			3.0
HF99-019	2.0	3.0	1.0	1.0			3.3
LG98-1452	3.0	2.0	1.0	1.5			3.3
ORC 2008	2.0	2.5	1.0	1.5			2.7
ORC 2009	3.0	2.0	1.0	1.5			3.3

UNIFORM TEST II, 2002

SEED QUALITY (score)

Strain	Waseca MN	Beemer NE	Cotesfield NE	Palmyra NE	Hoytville OH	Wooster OH
IA2021 (II)	3.0				2.5	3.2
IA1008 (SCN)	2.0				2.9	3.6
IA2052 (L)	2.7				1.8	1.5
Loda (SCN)	2.7				2.6	2.8
A00-711003	2.3				2.7	2.1
A00-711013	3.3				1.9	1.9
A00-711025	3.0				2.3	1.5
A00-812031	2.7				1.5	1.6
E98076	3.0				1.8	1.8
E99034	2.3				1.9	2.2
E99069	2.0				1.9	1.4
E99250	3.3				2.6	2.8
E99301	3.3				1.6	1.5
HF99-019	3.3				2.5	1.9
LG98-1452	3.3				2.4	1.9
ORC 2008	3.0				1.7	1.8
ORC 2009	2.7				1.6	1.5

UNIFORM TEST II, 2002

SEED QUALITY (score)

Strain	Harrow Ont	Chatham Ont.	Beresford SD	Brookings SD	Arlington WI
IA2021 (II)	1.0	1.0	2.0	2.0	3.3
IA1008 (SCN)	1.0	1.0	3.0	3.0	3.0
IA2052 (L)	1.3	1.0	2.0	2.0	2.7
Loda (SCN)	1.3	1.0	3.0	4.0	3.0
A00-711003	1.0	1.0	3.0	2.0	3.0
A00-711013	1.0	1.3	2.0	2.0	3.0
A00-711025	1.0	1.0	3.0	2.0	3.0
A00-812031	1.0	1.0	2.0	2.0	3.0
E98076	2.0	1.0	3.0	3.0	3.3
E99034	1.0	1.0	2.0	1.0	3.3
E99069	1.0	1.0	2.0	2.0	2.7
E99250	1.0	1.3	2.0	2.0	3.0
E99301	1.3	1.3	3.0	1.0	3.3
HF99-019	1.3	1.3	2.0	3.0	3.3
LG98-1452	1.3	1.3	2.0	2.0	2.7
ORC 2008	2.3	1.0	3.0	2.0	2.7
ORC 2009	1.3	1.0	3.0	3.0	4.0

UNIFORM TEST II, 2002

GREEN STEM (score)

Strain	Mean 4 Tests	Wanatah IN	Palmyra NE	Harrow Ont	Chatham Ont.
IA2021 (II)	1.8	1.0	2.0	1.0	3.3
IA1008 (SCN)	2.2	1.3	3.0	1.0	3.3
IA2052 (L)	2.4	1.7	3.0	1.0	3.7
Loda (SCN)	2.0	1.0	3.0	1.0	3.0
A00-711003	2.0	1.0	3.0	1.0	3.0
A00-711013	2.0	1.0	3.0	1.0	3.0
A00-711025	1.5	1.0	2.0	1.0	2.0
A00-812031	1.3	1.0	1.0	1.0	2.0
E98076	3.3	4.0	4.0	1.0	4.0
E99034	2.0	2.7	2.0	1.0	2.3
E99069	2.9	3.3	4.0	1.0	3.3
E99250	2.3	1.7	3.0	1.0	3.3
E99301	1.8	1.3	2.0	1.0	2.7
HF99-019	1.8	3.3	1.0	1.0	2.0
LG98-1452	2.1	2.3	2.0	1.0	3.0
ORC 2008	2.2	2.7	2.0	1.0	3.0
ORC 2009	2.0	2.7	2.0	1.0	2.3

UNIFORM TEST II, 2002

PROTEIN (%)

Strain	Mean 5 Tests	Ames IA	DeKalb IL	Lafayette IN	Cotesfield NE	Hoytville OH
IA2021 (II)	36.9	37.2	37.4	39.1	35.5	35.3
IA1008 (SCN)	39.4	38.8	39.3	37.7	39.4	41.7
IA2052 (L)	40.1	41.3	41.0	39.5	40.0	38.8
Loda (SCN)	38.3	41.2	38.6	38.3	38.4	34.8
A00-711003	38.6	40.6	40.1	39.4	37.8	35.3
A00-711013	36.0	38.9	36.0	37.9	34.2	32.8
A00-711025	37.9	39.5	38.1	41.5	37.4	33.0
A00-812031	36.4	37.5	36.2	37.4	36.9	34.0
E98076	36.4	38.3	37.8	36.3	36.4	33.3
E99034	36.7	39.7	37.9	37.1	36.8	32.2
E99069	38.2	39.6	39.6	39.2	36.5	36.1
E99250	38.0	37.8	39.3	39.4	37.9	35.6
E99301	38.5	40.3	39.2	39.5	37.8	35.8
HF99-019	39.2	40.4	39.5	40.6	38.9	36.4
LG98-1452	39.4	40.8	38.2	40.2	40.0	37.8
ORC 2008	39.2	40.2	37.9	42.9	39.9	35.0
ORC 2009	39.2	40.5	39.5	42.5	37.9	35.5

UNIFORM TEST II, 2002

OIL (%)

Strain	Mean 5 Tests	Ames IA	DeKalb IL	Lafayette IN	Cotesfield NE	Hoytville OH
IA2021 (II)	21.8	21.4	21.4	21.9	22.3	21.9
IA1008 (SCN)	19.6	18.7	19.1	20.4	19.3	20.1
IA2052 (L)	19.8	19.0	19.9	20.8	19.6	19.7
Loda (SCN)	20.8	19.8	20.4	21.2	20.6	21.7
A00-711003	20.0	19.2	19.4	20.6	20.3	20.4
A00-711013	20.2	19.1	20.1	20.6	21.6	19.8
A00-711025	19.8	19.9	20.4	18.8	20.0	20.1
A00-812031	20.8	20.9	21.5	21.1	19.7	20.7
E98076	20.2	19.3	19.9	20.9	20.3	20.4
E99034	21.4	19.5	21.1	22.1	21.8	22.5
E99069	19.6	19.3	19.6	20.3	19.6	19.0
E99250	21.1	21.0	20.6	21.4	21.3	21.3
E99301	20.4	18.9	20.5	20.7	20.8	21.1
HF99-019	19.0	18.8	19.2	18.8	19.0	19.2
LG98-1452	21.2	21.0	21.8	21.3	21.0	21.0
ORC 2008	20.2	19.4	20.5	19.2	19.8	21.8
ORC 2009	19.9	18.8	20.1	19.3	20.7	20.7

Ent.	Strain	Parentage	Generation Composited	Unique Traits
1	IA2021 (II)	Elgin 87 x Marcus	F5	
2.	IA1008 (SCN)	Northrup King S20-20 x Jack	F5	SCN
3.	IA2052 (L)	Northrup King S24-92 x Parker	F5	
4.	Loda (SCN)	Jack x IA3003	F5	SCN
5.	A01-409005	A97-874014 x A96-492041	F4	
6.	A01-410005	Pioneer 9306 x IA1009	F4	
7.	A01-410008	Pioneer 9321 x IA1009	F4	
8.	A01-510004	A97-874014 x A96-492041	F4	
9.	A01-510038	Pioneer 9306 x IA1009	F4	
10.	A01-510046	Pioneer 9321 x IA1009	F4	SCN
11.	A01-511015	A97-874014 x A96-492041	F4	
12.	A01-511020	A97-874007 x AgriPro 1995	F4	
13.	A01-511047	LN95-15740 x Pioneer 9233	F4	
14.	A01-511050	LN95-15740 x IA2050	F4	
15.	A01-511055	IA2050 x IA1009	F4	
16.	A01-512025	Pioneer 9321 x IA1009	F4	
17.	A01-512030	Pioneer 9321 x IA1009	F4	
18.	A01-512050	IA2050 x IA1009	F4	
19.	A01-612006	A97-974011 x Pioneer 9306	F4	
20.	C2025	A93-552028 x C1926	F5	Rps1k
21.	C2030	HS93-4118 x C1926	F5	
22.	E00001	AgriPro1995 x Pioneer 9281	F5	
23.	E00003	AgriPro1995 x Pioneer 9281	F5	
24.	E00075	Dairyland DSR-345 x E91031	F5	
25.	E00085	E94487 x Northrup King S20-91	F5	
26.	E00112	DST2118 x A93-554027	F5	
27.	E00239	Pioneer 9172 x Northrup King S19-90	F5	
28.	E00258	ORC9308 x Northrup King S19-90	F5	
29.	E00290	Jack x E93433	F5	
30.	HF00-022	OXC-9227-7 x OXC-9227-4	F5	Fld Resis/ Phyto (Tol)
31.	HF00-072	U93-2412 x A91-701007	F5	
32.	LG99-5126	LG91-7320 x Kenwood	F6	
33.	LG00-2483	LG95-441-4 x IA2022	F6	
34.	LG00-3063	LG94-1128 x Savoy	F5	
35.	LG00-3268	LG93-7604 x LG92-1255	F5	
36.	SD99-262	Vinton 81 x (Simpson x IA2014)	F5	
37.	SD99-454	SD93-954 x Marcus 95	F5	Rps1-k
38.	SD99-456	SD93-954 x Marcus 95	F5	Rps1-k
39.	SD99-486	SD93-954 x Marcus 95	F5	Rps1-k
40.	SD99-1109	Parker x Erie	F5	Rps1-k
41.	SD99-1758	Marcus x (Simpson x IA 2014)	F5	Rps1-k
42.	U00-220157	NE3001 x IA3001	F5	
43.	U00-407036	NE3001 x HOE-199	F5	
44.	U00-407044	NE3001 x HOL-672	F5	determinate
45.	U00-421006	NE3297 x UP1C6-47	F5	
46.	U00-426036	NE3297 x UP1C6-47	F5	
47.	U00-432012	NE3001 x U96-2909	F5	determinate

PRELIMINARY TEST II, 2002

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	Chlorosis Score Humboldt IA	Shattering Score Manhattan KS	Lafayette Race 4	Lafayette Race 7	Hard Seed %	PS Lafayette a %	P&SB Lafayette n %
IA2021 (II)	WTBSYBlI	2.3	2.0	R	R	42	4	0
IA1008 (SCN)	WGBDYYI	2.5	2.0	H	R	8	20	2
IA2052 (L)	WGBIYBfl	2.8	2.0	S	S	4	22	2
Loda (SCN)	PGBIYGrI	3.1	2.0	H	H	8	0	2
A01-409005	PGBDYYI	2.6	3.0	H	R	2	2	0
A01-410005	PGSDYYI	2.3	3.0	S	H	14	18	2
A01-410008	PGBDYYI	3.0	3.0	S	S	0	0	0
A01-510004	PGBDYYI	2.1	3.0	S	S	20	2	0
A01-510038	P+WSBIYYI	3.0	2.0	R	R	16	4	0
A01-510046	PGBDYYI	3.0	2.0	H	R	2	4	2
A01-511015	PSBDYYI	2.9	2.0	S	H	0	4	10
A01-511020	PGTDYHI	2.3	2.0	S	R	10	20	0
A01-511047	WSSDYBf+YI	3.1	2.0	S	R	0	8	0
A01-511050	WGBIYYI	3.3	3.0	S	S	16	6	4
A01-511055	P+WSSIYYI	2.1	2.0	S	S	6	8	0
A01-512025	P+WGBDYYI	2.3	2.0	S	S	6	0	2
A01-512030	P+WGBDYYI	3.3	2.0	S	S	30	0	0
A01-512050	WTBDYBrI	2.3	1.0	S	S	10	10	8
A01-612006	PGBDYHI	2.9	2.0	S	S	2	42	2
C2025	PSTDYBbrI	1.5	1.0	R	R	12	2	0
C2030	PSBDYHI	1.9	2.0	H	R	2	2	0
E00001	PTBDYBrI	1.5	2.0	R	R	0	20	2
E00003	PTBDYBrI	1.5	2.0	R	R	30	16	0
E00075	WTTIYBlI	3.1	2.0	S	S	0	12	0
E00085	WTBSYLGrI	1.5	2.0	R	R	14	8	0
E00112	WTSIYBlI	2.1	2.0	R	R	10	0	0
E00239	PTBIYGrI	3.3	1.0	R	R	4	18	0
E00258	PTTIYYI	2.0	3.0	R	R	6	4	0
E00290	WGBDYLbfl	2.6	3.0	S	S	22	12	0
HF00-022	P+WTBSYBlI	1.8	3.0	R	R	12	28	2
HF00-072	PGBSYIbI	2.3	3.0	S	S	6	14	0
LG99-5126	PTTIYBlI	2.3	1.0	S	S	0	2	0
LG00-2483	PTTDYBlI	2.4	2.0	S	S	12	8	0
LG00-3063	PGBDYIbI	1.4	2.0	S	R	8	0	0
LG00-3268	PGTDYIbI	3.5	1.0	S	S	0	6	0
SD99-262	PGTDYGrI	2.4	1.0	R	R	0	10	0
SD99-454	WTBDYBrI	2.9	2.0	R	R	0	18	2
SD99-456	WGBDYBfl	1.6	2.0	R	R	16	30	4
SD99-486	WGBDYBfl	2.8	2.0	R	R	2	8	0
SD99-1109	P+WTBDYBrI	2.8	2.0	R	R	4	8	0
SD99-1758	PTTDYBrI	2.9	2.0	S	S	2	8	2
U00-220157	PGBIYYI	1.8	2.0	S	S	0	0	0
U00-407036	PTBSYBlI	3.0	2.0	S	S	2	12	2
U00-407044	PGBSYBlI	3.1	2.0	S	S	8	4	2
U00-421006	WGBIYBfl	1.6	1.0	S	S	8	0	0
U00-426036	PGBIYHI	1.5	2.0	S	S	4	10	2
U00-432012	WGBSYYI	2.1	2.0	S	R	6	4	0

PRELIMINARY TEST II, 2002

REGIONAL SUMMARY

No. of Tests Strain	Yield 11 bu/a	Rank 11 No.	Maturity 10 Date	Lodging 11 Score	Plant Height 11 In.	Seed Size 11 g/100	Seed Quality 5 Score	Green Stem 2 Score	Composition Protein 5 %	Composition Oil 5 %
IA2021 (II)	48.7	38	9/16	1.5	29	16.3	1.9	2.0	37.6	22.0
IA1008 (SCN)	50.3	33	-2.1	1.4	33	17.3	2.3	2.0	38.6	20.1
IA2052 (L)	57.6	1	3.8	1.6	36	15.5	1.9	2.0	39.8	19.7
Loda (SCN)	47.4	40	5.3	1.4	28	17.0	2.4	2.0	39.4	19.9
A01-409005	54.7	4	2.9	1.6	30	20.4	2.7	2.0	39.9	19.7
A01-410005	52.1	14	-1.6	1.8	30	15.0	2.1	1.5	39.9	20.6
A01-410008	50.8	28	0.7	2.0	32	14.0	2.3	2.0	39.6	19.3
A01-510004	52.7	12	5.7	1.7	29	19.0	2.3	2.5	40.4	20.0
A[illegible]-510038	52.1	14	1.6	2.1	32	14.4	2.2	1.5	39.9	20.0
A01-510046	50.7	30	-0.8	1.7	29	15.7	3.0	2.0	38.3	19.7
A01-511015	53.1	9	4.5	1.6	31	19.5	2.6	2.0	40.4	19.7
A01-511020	50.8	28	3.4	1.5	26	18.4	2.4	3.0	38.9	19.2
A01-511047	51.3	22	3.2	1.8	34	14.4	2.2	1.0	40.2	18.6
A01-511050	52.3	13	3.4	2.1	35	15.1	2.3	1.0	39.1	19.9
A01-511055	54.4	6	5.0	1.6	32	16.0	2.4	2.0	39.1	19.6
A01-512025	53.0	11	3.9	1.9	33	13.7	2.1	1.5	39.0	19.6
A01-512030	53.1	9	3.1	2.4	32	14.5	1.9	1.0	38.8	19.5
A01-512050	47.4	40	-0.9	2.3	31	14.4	2.4	1.5	39.1	19.4
A01-612006	51.1	25	8.1	2.2	32	16.4	2.3	1.5	42.4	18.3
C2025	49.7	35	0.4	1.6	34	15.8	1.8	1.5	38.2	20.4
C2030	51.2	23	-1.9	1.5	34	14.6	1.8	2.0	38.6	20.0
E00001	54.1	8	7.4	2.0	35	14.6	2.2	1.5	38.9	19.9
E00003	56.3	2	7.3	2.0	35	15.3	2.0	2.5	38.7	20.5
E00075	55.0	3	8.6	1.6	38	15.0	1.9	2.0	39.1	20.0
E00085	51.4	21	2.7	1.4	33	16.3	2.2	2.0	40.5	20.1
E00112	49.6	37	4.3	1.2	32	16.7	2.0	2.0	41.3	20.2
E00239	51.1	25	7.1	1.5	31	17.5	2.4	2.5	41.6	19.5
E00258	51.1	25	3.2	1.5	34	15.7	1.7	1.5	40.5	20.0
E00290	54.5	5	8.1	1.6	36	15.4	1.7	2.0	38.8	20.0
HF00-022	48.0	39	5.7	2.3	36	15.1	1.7	1.5	40.1	19.4
HF00-072	52.1	14	7.2	1.7	36	14.7	2.1	1.5	39.4	20.6
LG99-5126	52.1	14	6.1	1.8	34	13.7	1.7	2.5	38.2	20.3
LG00-2483	50.4	32	6.6	1.8	37	13.3	1.9	2.0	38.8	19.5
LG00-3063	52.0	18	5.1	1.6	33	14.5	1.5	1.5	38.8	20.0
LG00-3268	51.5	20	6.7	1.8	34	14.6	1.8	1.5	40.4	19.2
SD99-262	45.3	45	3.1	1.4	30	16.5	2.9	1.5	41.1	19.0
SD99-454	46.2	44	-2.8	1.4	29	17.8	2.4	3.0	40.6	19.5
SD99-456	47.2	43	-2.0	1.3	33	16.7	2.5	3.0	39.3	20.3
SD99-486	42.2	47	-1.8	1.4	25	15.9	2.3	2.0	39.1	19.7
SD99-1109	44.2	46	-3.9	1.5	30	14.8	1.9	2.0	39.3	20.4
SD99-1758	47.4	40	1.4	1.9	33	13.1	1.9	1.5	38.9	19.6
U00-220157	50.5	31	5.4	1.5	29	18.0	2.5	1.0	40.7	20.8
U00-407036	54.3	7	6.8	1.4	33	19.4	1.9	1.5	39.7	20.8
U00-407044	49.7	35	8.8	1.5	29	18.5	2.0	1.5	39.5	20.4
U00-421006	50.3	33	-0.6	1.6	30	18.4	2.6	1.5	41.2	19.8
U00-426036	51.2	23	7.7	1.9	31	16.9	2.2	1.5	41.1	19.3
U00-432012	51.6	19	2.0	1.4	25	18.8	1.7	2.0	38.3	20.5

118.0 Days After Planting

PRELIMINARY TEST II, 2002

YIELD (bu/a)

Strain	Mean 11 Tests	Ames IA	Rippey IA	Urbana IL	Lafayette IN	Ingham County MI	Cotesfield NE
IA2021 (II)	48.7	56.3	58.6	41.8	53.7	52.9	62.7
IA1008 (SCN)	50.3	55.3	60.5	47.9	51.7	59.7	74.1
IA2052 (L)	57.6	71.0	59.9	52.7	61.8	55.8	89.1
Loda (SCN)	47.4	57.8	54.7	50.7	58.5	52.7	73.6
A01-409005	54.7	67.6	61.6	47.6	67.2	59.5	75.1
A01-410005	52.1	61.0	62.4	47.2	55.9	60.7	70.5
A01-410008	50.8	64.3	56.4	46.5	55.3	45.9	73.4
A01-510004	52.7	69.7	55.4	51.9	57.8	52.4	84.0
A01-510038	52.1	64.2	58.5	48.9	55.2	53.4	75.5
A01-510046	50.7	68.3	61.2	50.4	61.2	52.5	74.3
A01-511015	53.1	62.6	58.4	49.1	58.8	52.4	75.1
A01-511020	50.8	63.4	54.2	49.1	49.8	58.4	74.3
A01-511047	51.3	64.3	50.5	51.6	59.2	58.2	78.2
A01-511050	52.3	66.0	63.4	47.9	61.2	49.8	69.7
A01-511055	54.4	63.0	57.4	54.2	63.7	61.1	75.7
A01-512025	53.0	67.9	58.3	47.2	56.2	55.7	81.5
A01-512030	53.1	61.0	61.3	54.8	61.2	43.2	74.8
A01-512050	47.4	58.9	59.0	42.7	50.7	55.3	71.9
A01-612006	51.1	56.5	49.4	50.5	58.8	46.4	75.0
C2025	49.7	65.2	62.0	47.5	54.8	54.8	66.6
C2030	51.2	66.4	60.2	46.2	52.8	59.7	73.4
E00001	54.1	61.7	57.9	48.9	50.3	60.8	79.7
E00003	56.3	66.0	58.5	51.6	62.8	55.1	81.4
E00075	55.0	60.6	53.3	57.3	66.6	59.2	79.7
E00085	51.4	59.6	59.3	44.9	59.0	56.7	71.4
E00112	49.6	64.7	57.5	43.5	54.3	57.6	72.8
E00239	51.1	59.9	47.0	52.9	62.8	52.2	71.9
E00258	51.1	61.3	56.6	54.2	57.8	48.8	71.5
E00290	54.5	62.9	61.3	64.0	63.2	56.9	72.1
HF00-022	48.0	52.4	49.6	46.0	56.8	38.1	71.6
HF00-072	52.1	59.2	55.2	47.9	57.0	54.5	74.6
LG99-5126	52.1	62.6	50.2	59.5	62.0	54.1	76.8
LG00-2483	50.4	58.0	47.6	53.8	62.5	46.6	64.5
LG00-3063	52.0	63.8	58.0	53.7	59.3	49.0	66.5
LG00-3268	51.5	56.8	52.1	54.1	57.0	55.5	71.6
SD99-262	45.3	54.0	42.5	38.5	51.3	47.6	67.8
SD99-454	46.2	57.3	46.0	41.1	44.4	59.9	71.5
SD99-456	47.2	57.4	51.4	35.0	47.9	58.3	79.1
SD99-486	42.2	45.3	39.3	35.9	44.5	52.5	68.0
SD99-1109	44.2	47.5	46.2	38.6	43.5	48.4	69.5
SD99-1758	47.4	65.2	52.6	40.2	53.0	48.1	68.0
U00-220157	50.5	62.3	56.0	47.7	52.3	53.9	67.6
U00-407036	54.3	61.4	59.0	54.9	52.7	52.5	71.9
U00-407044	49.7	58.6	52.9	51.5	55.9	44.9	72.4
U00-421006	50.3	57.6	56.9	48.4	49.7	54.0	73.4
U00-426036	51.2	62.4	57.6	51.0	56.7	47.2	77.8
U00-432012	51.6	62.6	59.5	48.2	49.5	53.0	74.2
C.V. (%)		5.2	5.1	7.3	7.0	8.5	5.1
L.S.D. (5%)		6.4	5.7	7.2	7.9	7.6	7.5
Row Sp. (In.)		27	27	30	24	15	30
Rows/Plot		4	4	4	4	6	4
Reps		2	2	2	2	2	2

PRELIMINARY TEST II, 2002

YIELD (bu/a)

Strain	Palmyra NE	Hoytville OH	Harrow Ont.	Beresford SD	Brookings SD
IA2021 (II)	48.6	41.8	60.9	36.2	22.1
IA1008 (SCN)	39.7	45.2	63.5	35.0	20.5
IA2052 (L)	54.0	52.3	66.5	45.1	25.5
Loda (SCN)	47.1	47.6	54.0	6.6	18.5
A01-409005	45.9	54.9	64.7	32.8	24.6
A01-410005	44.4	47.2	61.0	37.2	25.2
A01-410008	49.5	41.5	60.7	39.5	25.7
A01-510004	42.3	48.6	57.6	35.0	25.1
A01-510038	49.1	41.1	64.5	37.3	25.2
A01-510046	35.8	30.0	66.0	32.6	25.1
A01-511015	52.8	53.5	64.0	35.0	22.7
A01-511020	48.7	43.2	63.2	25.8	28.9
A01-511047	38.2	46.7	58.6	33.8	25.2
A01-511050	41.5	45.9	58.1	47.3	24.6
A01-511055	52.9	45.6	62.9	37.1	25.3
A01-512025	47.3	37.9	61.0	44.1	26.3
A01-512030	54.6	44.9	60.5	40.8	27.3
A01-512050	33.8	34.0	55.1	36.1	24.3
A01-612006	51.7	47.2	61.2	41.8	23.8
C2025	40.1	46.7	55.5	32.9	20.2
C2030	45.6	48.3	58.8	31.7	20.3
E00001	54.5	50.4	63.0	43.0	24.5
E00003	52.0	55.6	67.5	44.4	24.5
E00075	57.9	46.2	56.3	43.7	24.8
E00085	40.2	42.3	68.9	40.5	23.0
E00112	40.5	39.3	56.8	36.2	22.3
E00239	52.9	50.8	56.8	32.3	22.2
E00258	44.2	47.0	54.5	41.7	24.8
E00290	47.8	48.2	58.4	40.6	24.4
HF00-022	57.6	52.4	46.7	34.9	21.5
HF00-072	52.6	55.0	49.2	42.7	25.5
LG99-5126	43.2	43.9	55.1	38.7	26.7
LG00-2483	51.0	48.6	60.3	39.8	21.6
LG00-3063	51.6	54.3	55.5	38.1	22.7
LG00-3268	53.2	51.0	56.4	34.9	23.5
SD99-262	48.7	43.4	56.3	25.6	22.7
SD99-454	29.1	45.8	61.0	31.5	20.2
SD99-456	33.8	49.3	57.4	28.2	21.1
SD99-486	44.0	31.8	55.0	28.2	20.2
SD99-1109	39.5	43.7	56.8	30.3	21.8
SD99-1758	53.3	36.5	45.4	35.0	23.7
U00-220157	50.1	42.3	59.5	38.6	24.9
U00-407036	62.0	46.9	66.5	45.7	24.3
U00-407044	43.6	46.7	57.2	41.9	20.8
U00-421006	44.2	52.7	59.4	35.6	21.6
U00-426036	47.1	42.1	61.0	37.1	23.7
U00-432012	53.1	46.0	63.6	34.3	23.6
C.V. (%)	14.2	6.3	7.1	11.6	16.3
L.S.D. (5%)	13.7	4.9	5.5	6.9	5.1
Row Sp. (In.)	30	7.5	18	30	30
Rows/Plot	4	8	5	4	2
Reps	2	2	2	2	

PRELIMINARY TEST II, 2002

YIELD RANK

Strain	Yield Rank	Ames IA	Rippey IA	Urbana IL	Lafayette IN	Ingham County MI	Cotesfield NE
IA2021 (II)	38	42	15	41	32	27	47
IA1008 (SCN)	33	43	8	27	37	5	21
IA2052 (L)	1	1	10	12	9	15	1
Loda (SCN)	40	36	31	18	18	28	22
A01-409005	4	5	4	31	1	7	13
A01-410005	14	27	2	33	26	3	37
A01-410008	28	12	27	35	28	44	24
A01-510004	12	2	29	13	19	32	2
A01-510038	14	14	16	23	29	25	12
A01-510046	30	3	7	20	10	29	18
A01-511015	9	19	18	21	16	33	13
A01-511020	28	16	32	21	41	9	18
A01-511047	22	12	38	14	14	11	8
A01-511050	13	7	1	27	10	35	38
A01-511055	6	17	24	6	3	1	11
A01-512025	11	4	19	33	25	16	3
A01-512030	9	27	5	5	10	46	16
A01-512050	40	33	13	40	39	18	30
A01-612006	25	41	41	19	16	43	15
C2025	35	9	3	32	30	20	44
C2030	23	6	9	36	34	6	24
E00001	8	24	21	23	40	2	5
E00003	2	7	16	14	5	19	4
E00075	3	29	33	3	2	8	5
E00085	21	31	12	38	15	14	36
E00112	37	11	23	39	31	12	26
E00239	25	30	43	11	5	34	30
E00258	25	26	26	6	19	37	34
E00290	5	18	5	1	4	13	28
HF00-022	39	45	40	37	23	47	32
HF00-072	14	32	30	27	21	21	17
LG99-5126	14	19	39	2	8	22	10
LG00-2483	32	35	42	9	7	42	46
LG00-3063	18	15	20	10	13	36	45
LG00-3268	20	40	36	8	21	17	32
SD99-262	45	44	46	45	38	40	42
SD99-454	44	39	45	42	46	4	34
SD99-456	43	38	37	47	44	10	7
SD99-486	47	47	47	46	45	30	40
SD99-1109	46	46	44	44	47	38	39
SD99-1758	40	9	35	43	33	39	40
U00-220157	31	23	28	30	36	24	43
U00-407036	7	25	13	4	35	31	30
U00-407044	35	34	34	16	27	45	27
U00-421006	33	37	25	25	42	23	24
U00-426036	23	22	22	17	24	41	9
U00-432012	19	19	11	26	43	26	20

PRELIMINARY TEST II, 2002

YIELD RANK

Strain	Palmyra NE	Hoytville OH	Harrow Ont.	Beresford SD	Brookings SD
IA2021 (II)	23	39	19	24	35
IA1008 (SCN)	41	30	10	28	42
IA2052 (L)	6	8	3	3	6
Loda (SCN)	26	17	44	47	47
A01-409005	28	3	6	37	17
A01-410005	30	18	15	21	9
A01-410008	19	40	20	16	5
A01-510004	36	13	29	28	12
A01-510038	20	41	7	20	9
A01-510046	44	47	5	38	12
A01-511015	12	5	8	28	30
A01-511020	21	35	11	45	1
A01-511047	43	22	25	35	9
A01-511050	37	27	27	1	17
A01-511055	10	29	13	22	8
A01-512025	25	43	15	5	4
A01-512030	4	31	21	12	2
A01-512050	45	45	40	26	22
A01-612006	15	18	14	10	24
C2025	40	22	38	36	44
C2030	29	15	28	40	43
E00001	5	11	12	7	17
E00003	14	1	2	4	17
E00075	2	25	36	6	15
E00085	39	36	1	14	29
E00112	38	42	32	24	33
E00239	10	10	32	39	34
E00258	31	20	43	11	15
E00290	24	16	26	13	21
HF00-022	3	7	46	32	39
HF00-072	13	2	45	8	6
LG99-5126	35	32	40	17	3
LG00-2483	17	13	22	15	37
LG00-3063	16	4	38	19	30
LG00-3268	8	9	35	33	28
SD99-262	21	34	36	46	30
SD99-454	47	28	15	41	44
SD99-456	45	12	30	43	40
SD99-486	33	46	42	43	44
SD99-1109	42	33	32	42	36
SD99-1758	7	44	47	28	25
U00-220157	18	36	23	18	14
U00-407036	1	21	3	2	22
U00-407044	34	22	31	9	41
U00-421006	31	6	24	27	37
U00-426036	26	38	15	22	25
U00-432012	9	26	9	34	27

PRELIMINARY TEST II, 2002

MATURITY (date)

Strain	Mean 10 Tests	Ames IA	Rippey IA	Urbana IL	Lafayette IN	Ingham County MI	Cotesfield NE
IA2021 (II)	9/16	9/6		9/16	9/20	9/19	9/12
IA1008 (SCN)	-2.1	-2		-1	-2	-2	0
IA2052 (L)	3.8	9		8	5	2	2
Loda (SCN)	5.3	7		10	5	3	6
A01-409005	2.9	2		5	6	3	3
A01-410005	-1.6	4		-1	-2	-1	-3
A01-410008	0.7	5		5	0	4	1
A01-510004	5.7	6		10	6	5	9
A01-510038	1.6	5		4	3	2	1
A01-510046	-0.8	6		1	0	0	1
A01-511015	4.5	5		10	6	5	8
A01-511020	3.4	5		6	5	6	4
A01-511047	3.2	6		10	4	4	4
A01-511050	3.4	2		10	5	5	7
A01-511055	5.0	8		9	2	4	7
A01-512025	3.9	8		8	3	4	10
A01-512030	3.1	9		6	3	3	6
A01-512050	-0.9	1		0	-2	4	1
A01-612006	8.1	18		12	11	8	11
C2025	0.4	3		-1	-2	1	5
C2030	-1.9	0		-2	-2	-1	1
E00001	7.4	11		9	7	7	11
E00003	7.3	9		10	10	9	9
E00075	8.6	12		12	11	8	15
E00085	2.7	2		4	4	4	2
E00112	4.3	4		5	4	5	11
E00239	7.1	13		12	7	8	8
E00258	3.2	8		5	2	4	10
E00290	8.1	13		12	11	12	10
HF00-022	5.7	9		9	5	6	11
HF00-072	7.2	16		8	4	11	10
LG99-5126	6.1	12		10	6	8	9
LG00-2483	6.6	11		8	7	6	13
LG00-3063	5.1	8		5	4	6	11
LG00-3268	6.7	11		12	8	9	7
SD99-262	3.1	4		9	1	2	4
SD99-454	-2.8	-2		-4	-3	0	0
SD99-456	-2.0	0		-2	-2	1	1
SD99-486	-1.8	-4		-4	-4	0	1
SD99-1109	-3.9	-3		-4	-5	-3	-2
SD99-1758	1.4	2		0	-2	4	8
U00-220157	5.4	9		8	3	6	1
U00-407036	6.8	10		12	6	7	3
U00-407044	8.8	14		12	10	9	9
U00-421006	-0.6	0		0	-2	0	-1
U00-426036	7.7	12		10	9	7	9
U00-432012	2.0	-1		2	1	4	1
Date Planted	5/21	5/4	5/21	6/3	6/3	5/8	5/21
Days to Mature	118	125		105	109	134	114

PRELIMINARY TEST II, 2002

MATURITY (date)

Strain	Palmyra NE	Hoytville OH	Harrow Ont.	Beresford SD	Brookings SD
IA2021 (II)	9/18	9/19	9/12	9/22	9/20
IA1008 (SCN)	-3	-4	-1	-3	-3
IA2052 (L)	4	2	5	1	0
Loda (SCN)	9	6	5	3	-1
A01-409005	4	5	3	-2	0
A01-410005	-5	-3	3	-6	-2
A01-410008	0	-2	3	-6	-3
A01-510004	9	7	4	-1	2
A01-510038	4	0	4	-4	-3
A01-510046	-2	-8	4	-5	-5
A01-511015	9	4	5	-2	-5
A01-511020	9	-1	6	0	-6
A01-511047	2	4	6	-5	-3
A01-511050	4	3	5	-6	-1
A01-511055	10	4	6	-2	2
A01-512025	3	1	6	-2	-2
A01-512030	3	-1	6	-2	-2
A01-512050	-2	-7	1	-2	-3
A01-612006	11	7	8	-7	2
C2025	-1	1	1	1	-4
C2030	-6	-2	2	-5	-4
E00001	5	12	10	2	0
E00003	7	9	9	2	-1
E00075	9	9	11	0	-1
E00085	-1	8	5	0	-1
E00112	3	6	4	1	0
E00239	9	6	10	-2	0
E00258	1	0	5	0	-3
E00290	9	9	8	-1	-2
HF00-022	6	6	9	-2	-2
HF00-072	9	11	5	1	-3
LG99-5126	5	4	10	1	-4
LG00-2483	10	8	9	-3	-3
LG00-3063	3	8	5	1	0
LG00-3268	11	6	7	-4	0
SD99-262	7	4	4	-5	1
SD99-454	-6	-4	-2	-4	-3
SD99-456	-4	-2	-4	-6	-2
SD99-486	2	-1	-2	-4	-2
SD99-1109	-5	-3	-3	-9	-2
SD99-1758	6	0	1	-4	-1
U00-220157	7	7	10	2	1
U00-407036	9	11	9	1	0
U00-407044	10	8	12	2	2
U00-421006	0	-2	4	-3	-2
U00-426036	9	7	11	3	0
U00-432012	8	4	3	-2	0
Date Planted	5/30	6/1	5/28	5/10	5/13
Days to Mature	111	110	107	135	130

PRELIMINARY TEST II, 2002

LODGING (score)

Strain	Mean 11 Tests	Ames IA	Rippey IA	Urbana IL	Lafayette IN	Ingham County MI	Cotesfield NE
IA2021 (II)	1.5	2.3	2.8	1.0	1.0	3.5	1.0
IA1008 (SCN)	1.4	2.3	2.5	1.0	1.0	2.5	1.0
IA2052 (L)	1.6	2.3	2.0	1.3	1.5	3.0	1.5
Loda (SCN)	1.4	2.0	1.8	1.0	1.0	3.0	1.0
A01-409005	1.6	2.3	2.3	1.0	1.0	4.0	1.5
A01-410005	1.8	2.8	2.8	1.0	2.0	3.5	2.0
A01-410008	2.0	2.5	3.3	1.8	1.8	5.0	1.0
A01-510004	1.7	2.5	2.5	1.0	1.0	5.0	1.0
A01-510038	2.1	2.5	3.5	1.5	3.0	5.0	2.0
A01-510046	1.7	2.8	2.0	1.8	2.3	3.5	1.0
A01-511015	1.6	2.0	2.8	1.0	1.0	4.0	1.0
A01-511020	1.5	2.0	2.0	1.0	1.0	4.0	1.0
A01-511047	1.8	2.5	2.8	1.5	2.0	3.5	1.5
A01-511050	2.1	2.8	3.0	1.3	2.5	4.0	2.0
A01-511055	1.6	2.0	2.5	1.3	1.0	4.0	1.0
A01-512025	1.9	2.8	2.8	1.0	2.0	4.5	1.5
A01-512030	2.4	2.8	3.0	2.3	4.0	4.5	2.0
A01-512050	2.3	3.5	3.0	2.0	2.3	5.0	2.5
A01-612006	2.2	3.8	3.8	1.5	2.5	4.0	2.0
C2025	1.6	2.3	2.3	1.3	1.5	3.5	1.0
C2030	1.5	2.0	2.3	1.5	1.0	3.0	1.0
E00001	2.0	3.3	2.8	1.8	1.8	4.0	2.0
E00003	2.0	3.0	3.0	2.3	1.8	4.0	2.0
E00075	1.6	2.5	2.5	1.5	1.8	3.0	1.0
E00085	1.4	2.0	2.0	1.0	1.0	3.0	1.0
E00112	1.2	1.5	1.5	1.0	1.0	2.0	1.0
E00239	1.5	1.8	2.8	1.3	1.0	3.0	1.0
E00258	1.5	2.0	2.3	1.0	1.0	3.5	1.0
E00290	1.6	2.5	2.5	1.3	1.0	3.0	1.5
HF00-022	2.3	3.5	3.0	1.5	2.0	5.0	2.5
HF00-072	1.7	2.5	3.3	1.0	1.0	4.0	1.5
LG99-5126	1.8	2.5	3.0	1.5	1.5	3.5	2.0
LG00-2483	1.8	2.5	3.0	1.5	1.5	3.0	2.0
LG00-3063	1.6	2.0	2.5	1.0	1.0	4.0	1.5
LG00-3268	1.8	2.8	2.8	1.5	1.0	4.0	1.5
SD99-262	1.4	2.0	1.8	1.3	1.0	3.5	1.0
SD99-454	1.4	2.0	2.0	1.0	1.0	3.5	1.0
SD99-456	1.3	2.0	1.5	1.0	1.0	3.0	1.0
SD99-486	1.4	1.8	1.8	1.0	1.0	3.5	1.0
SD99-1109	1.5	2.3	1.8	1.0	1.0	4.0	1.0
SD99-1758	1.9	2.8	2.5	1.3	1.8	4.5	2.0
U00-220157	1.5	2.8	2.0	1.0	1.0	3.0	1.0
U00-407036	1.4	2.0	2.3	1.3	1.0	3.0	1.0
U00-407044	1.5	2.0	2.3	1.3	1.0	3.0	1.5
U00-421006	1.6	2.0	2.3	1.3	1.0	3.5	2.0
U00-426036	1.9	2.5	3.5	1.5	1.8	3.5	2.0
U00-432012	1.4	2.0	1.3	1.0	1.0	3.5	1.0

PRELIMINARY TEST II, 2002

LODGING (score)

Strain	Palmyra NE	Hoytville OH	Harrow Ont.	Beresford SD	Brookings SD
IA2021 (II)	1.0	1.4	1.0	1.0	1.0
IA1008 (SCN)	1.0	1.4	1.0	1.0	1.0
IA2052 (L)	1.5	1.2	1.0	1.0	1.0
Loda (SCN)	1.0	1.4	1.0	1.0	1.0
A01-409005	1.0	1.3	1.0	1.0	1.0
A01-410005	1.5	1.3	1.0	1.0	1.0
A01-410008	2.0	1.3	1.0	1.0	1.0
A01-510004	1.0	1.3	1.0	1.0	1.0
A01-510038	1.5	1.3	1.0	1.0	1.0
A01-510046	1.0	1.3	1.5	1.0	1.0
A01-511015	1.5	1.4	1.0	1.0	1.0
A01-511020	1.0	1.3	1.0	1.0	1.0
A01-511047	1.0	1.4	1.5	1.0	1.0
A01-511050	1.5	1.3	1.0	3.0	1.0
A01-511055	1.5	1.3	1.0	1.0	1.0
A01-512025	2.0	1.2	1.5	1.0	1.0
A01-512030	2.0	1.3	2.0	2.0	1.0
A01-512050	2.0	1.5	2.0	1.0	1.0
A01-612006	1.5	1.3	1.5	1.0	1.0
C2025	1.0	1.2	1.0	1.0	1.0
C2030	1.0	1.3	1.0	1.0	1.0
E00001	2.0	1.3	1.0	1.0	1.0
E00003	2.0	1.3	1.0	1.0	1.0
E00075	1.5	1.3	1.0	1.0	1.0
E00085	1.0	1.3	1.0	1.0	1.0
E00112	1.0	1.3	1.0	1.0	1.0
E00239	1.0	1.3	1.0	1.0	1.0
E00258	1.0	1.3	1.0	1.0	1.0
E00290	1.0	1.4	1.0	1.0	1.0
HF00-022	1.5	1.4	1.5	2.0	1.0
HF00-072	1.0	1.4	1.0	1.0	1.0
LG99-5126	1.0	1.3	1.0	1.0	1.0
LG00-2483	1.5	1.3	2.0	1.0	1.0
LG00-3063	1.0	1.3	1.0	1.0	1.0
LG00-3268	1.5	1.5	1.0	1.0	1.0
SD99-262	1.0	1.3	1.0	1.0	1.0
SD99-454	1.0	1.3	1.0	1.0	1.0
SD99-456	1.0	1.3	1.0	1.0	1.0
SD99-486	1.5	1.3	1.0	1.0	1.0
SD99-1109	1.0	1.4	1.0	1.0	1.0
SD99-1758	2.0	1.3	1.0	1.0	1.0
U00-220157	1.0	1.3	1.0	1.0	1.0
U00-407036	1.0	1.3	1.0	1.0	1.0
U00-407044	1.0	1.3	1.0	1.0	1.0
U00-421006	1.0	1.3	1.0	1.0	1.0
U00-426036	1.5	1.3	1.5	1.0	1.0
U00-432012	1.0	1.3	1.0	1.0	1.0

PRELIMINARY TEST II, 2002

PLANT HEIGHT (inches)

Strain	Mean 11 Tests	Ames IA	Rippey IA	Urbana IL	Lafayette IN	Ingham County MI	Cotesfield NE
IA2021 (II)	29	29	38	26	32	36	33
IA1008 (SCN)	33	32	43	30	37	43	36
IA2052 (L)	36	40	44	34	38	42	42
Loda (SCN)	28	25	36	26	32	35	32
A01-409005	30	31	36	26	32	37	31
A01-410005	30	31	37	28	33	40	33
A01-410008	32	31	43	31	34	40	34
A01-510004	29	32	35	28	35	36	33
A01-510038	32	31	39	32	34	38	36
A01-510046	29	31	37	29	33	35	33
A01-511015	31	30	37	29	33	37	36
A01-511020	26	26	29	25	26	36	29
A01-511047	34	35	40	34	37	41	37
A01-511050	35	28	39	34	36	42	41
A01-511055	32	32	36	33	33	36	37
A01-512025	33	35	42	30	34	41	41
A01-512030	32	34	41	31	35	39	38
A01-512050	31	31	37	32	32	39	33
A01-612006	32	31	38	30	34	39	38
C2025	34	34	43	35	37	44	43
C2030	34	34	40	34	38	44	37
E00001	35	35	40	36	37	44	39
E00003	35	34	42	35	40	43	40
E00075	38	42	47	35	41	49	43
E00085	33	34	39	31	35	38	38
E00112	32	32	38	29	34	44	37
E00239	31	33	40	29	32	38	35
E00258	34	35	47	32	36	42	42
E00290	36	37	45	36	39	45	42
HF00-022	36	37	45	35	39	45	43
HF00-072	36	39	43	34	39	46	43
LG99-5126	34	37	44	31	36	43	40
LG00-2483	37	37	44	35	39	44	45
LG00-3063	33	31	43	30	34	40	40
LG00-3268	34	34	41	35	35	40	39
SD99-262	30	32	35	26	32	37	36
SD99-454	29	27	37	29	32	36	34
SD99-456	33	32	39	32	34	44	37
SD99-486	25	23	33	22	25	34	29
SD99-1109	30	28	33	29	31	37	37
SD99-1758	33	33	41	32	34	39	42
U00-220157	29	31	36	26	29	39	35
U00-407036	33	34	43	32	35	42	32
U00-407044	29	29	37	28	31	36	31
U00-421006	30	32	37	31	31	34	34
U00-426036	31	30	38	31	34	36	35
U00-432012	25	26	25	25	25	30	27

PRELIMINARY TEST II, 2002

PLANT HEIGHT (inches)

Strain	Palmyra NE	Hoytville OH	Harrow Ont.	Beresford SD	Brookings SD
IA2021 (II)	27	22	28	23	26
IA1008 (SCN)	30	30	31	26	27
IA2052 (L)	32	29	38	29	28
Loda (SCN)	31	25	26	19	20
A01-409005	28	27	29	22	27
A01-410005	31	23	29	20	24
A01-410008	32	27	28	22	25
A01-510004	25	23	25	21	23
A01-510038	33	27	33	23	26
A01-510046	24	24	30	24	24
A01-511015	29	30	29	24	25
A01-511020	23	23	25	19	20
A01-511047	34	30	37	28	27
A01-511050	34	30	34	33	33
A01-511055	30	24	35	27	24
A01-512025	29	23	31	26	27
A01-512030	29	23	32	28	25
A01-512050	29	26	30	23	26
A01-612006	31	25	31	26	29
C2025	27	24	31	26	29
C2030	29	29	31	26	28
E00001	33	34	35	29	28
E00003	30	28	38	29	30
E00075	34	30	37	32	30
E00085	29	26	35	29	27
E00112	27	25	30	24	27
E00239	29	27	29	26	24
E00258	30	27	30	28	26
E00290	30	31	33	32	24
HF00-022	33	30	36	28	30
HF00-072	32	33	34	26	28
LG99-5126	26	27	33	26	29
LG00-2483	29	30	40	31	32
LG00-3063	27	31	29	27	30
LG00-3268	27	28	34	28	29
SD99-262	29	26	29	24	27
SD99-454	26	22	32	24	26
SD99-456	31	28	32	25	26
SD99-486	27	19	24	21	22
SD99-1109	28	26	32	25	28
SD99-1758	30	24	30	28	27
U00-220157	27	25	27	24	25
U00-407036	31	31	34	26	26
U00-407044	26	26	31	23	24
U00-421006	25	24	29	24	26
U00-426036	27	26	34	24	27
U00-432012	22	26	28	18	24

PRELIMINARY TEST II, 2002

SEED SIZE (g/100)

Strain	Mean 11 Tests	Ames IA	Rippey IA	Urbana IL	Lafayette IN	Ingham County MI	Cotesfield NE
IA2021 (II)	16.3	15.2	16.1	17.5	16.9	15.7	15.8
IA1008 (SCN)	17.3	16.5	17.4	18.9	19.2	16.5	18.0
IA2052 (L)	15.5	15.0	14.8	17.3	17.4	13.2	15.5
Loda (SCN)	17.0	16.1	16.4	20.7	18.3	15.8	16.8
A01-409005	20.4	18.9	20.4	22.9	22.6	20.4	20.5
A01-410005	15.0	14.9	14.3	16.1	16.7	15.8	14.3
A01-410008	14.0	14.4	15.1	15.7	14.8	12.9	13.4
A01-510004	19.0	17.3	20.2	21.4	19.8	19.2	19.3
A01-510038	14.4	14.2	14.4	16.1	15.8	14.7	13.0
A01-510046	15.7	16.3	15.4	16.9	16.5	14.5	15.2
A01-511015	19.5	19.1	20.4	20.9	20.2	20.2	19.1
A01-511020	18.4	18.6	17.0	19.2	19.5	18.6	18.3
A01-511047	14.4	14.6	14.9	16.3	14.8	14.8	14.2
A01-511050	15.1	14.2	14.7	17.4	16.8	13.6	14.5
A01-511055	16.0	16.1	15.6	18.5	16.5	14.8	15.8
A01-512025	13.7	13.8	13.5	14.7	14.2	12.2	13.1
A01-512030	14.5	14.8	14.5	16.2	15.8	12.7	13.6
A01-512050	14.4	14.1	14.1	15.6	15.8	14.3	15.1
A01-612006	16.4	17.3	17.3	19.2	17.7	14.4	15.6
C2025	15.8	16.2	15.3	17.6	16.8	15.4	15.1
C2030	14.6	14.6	13.8	15.1	15.7	13.7	14.8
E00001	14.6	14.9	14.5	14.9	14.5	12.8	14.4
E00003	15.3	15.8	14.9	15.8	16.7	13.7	15.4
E00075	15.0	16.4	14.6	18.1	16.6	14.5	14.4
E00085	16.3	15.8	16.5	17.1	17.3	15.7	16.4
E00112	16.7	16.7	16.5	18.3	17.2	16.8	16.7
E00239	17.5	17.8	17.4	21.1	17.7	16.9	16.7
E00258	15.7	17.8	15.3	17.9	15.3	13.9	15.1
E00290	15.4	15.3	15.9	18.7	17.0	14.6	14.2
HF00-022	15.1	16.4	15.4	18.0	16.2	14.0	15.6
HF00-072	14.7	15.6	14.6	18.2	15.1	13.4	14.3
LG99-5126	13.7	15.2	14.1	16.0	14.3	12.7	13.2
LG00-2483	13.3	14.5	12.7	15.8	13.2	10.9	11.6
LG00-3063	14.5	14.8	14.8	16.9	15.1	12.7	14.5
LG00-3268	14.6	14.7	14.7	18.9	14.1	13.2	13.5
SD99-262	16.5	16.0	15.1	19.4	17.5	16.5	16.1
SD99-454	17.8	16.7	15.6	18.5	18.7	19.3	18.1
SD99-456	16.7	15.7	15.5	17.1	18.6	17.6	16.9
SD99-486	15.9	15.1	15.5	15.9	16.1	16.5	17.3
SD99-1109	14.8	14.1	14.5	15.5	16.0	14.2	15.6
SD99-1758	13.1	13.5	13.1	14.5	14.6	12.4	12.9
U00-220157	18.0	17.9	17.7	20.6	19.3	17.7	17.1
U00-407036	19.4	19.0	18.5	22.4	20.0	17.6	21.0
U00-407044	18.5	18.1	17.7	21.1	19.9	15.6	17.8
U00-421006	18.4	17.7	18.0	19.0	18.8	18.5	18.3
U00-426036	16.9	16.6	17.4	18.3	17.4	14.7	18.0
U00-432012	18.8	18.2	19.0	19.3	18.9	18.2	18.7

PRELIMINARY TEST II, 2002

SEED SIZE (g/100)

Strain	Palmyra NE	Hoytville OH	Harrow Ont.	Beresford SD	Brookings SD
IA2021 (II)	16.8	15.1	14.5	17.5	17.8
IA1008 (SCN)	17.2	14.7	15.1	18.6	18.3
IA2052 (L)	16.4	13.7	13.8	16.5	17.2
Loda (SCN)	18.1	15.1	14.5	18.3	16.7
A01-409005	21.4	19.0	18.7	20.0	19.7
A01-410005	14.1	13.5	13.8	15.9	15.6
A01-410008	14.6	12.0	12.4	13.4	14.8
A01-510004	19.9	18.9	16.2	18.9	17.7
A01-510038	13.4	13.7	13.0	15.4	14.4
A01-510046	15.4	14.4	13.9	18.2	15.8
A01-511015	20.9	17.6	17.4	20.5	18.6
A01-511020	20.2	17.4	16.1	19.5	18.1
A01-511047	13.8	12.5	13.1	13.9	15.7
A01-511050	16.1	14.5	13.3	15.3	16.3
A01-511055	16.8	14.2	14.2	17.5	16.4
A01-512025	14.1	12.3	12.4	15.7	14.3
A01-512030	14.8	13.0	13.1	16.2	14.6
A01-512050	14.2	13.0	12.5	14.6	14.9
A01-612006	17.4	14.2	14.4	16.5	16.2
C2025	16.9	15.7	13.0	16.4	15.5
C2030	15.0	12.5	12.7	16.7	16.4
E00001	15.4	12.9	12.5	16.7	16.6
E00003	16.4	13.2	14.1	17.4	15.0
E00075	16.6	12.0	13.3	14.2	14.1
E00085	16.8	13.7	15.0	17.0	18.4
E00112	17.4	14.4	15.1	17.7	16.4
E00239	20.5	15.4	16.1	15.7	17.2
E00258	16.1	13.6	13.3	17.1	16.8
E00290	16.9	12.9	13.7	15.9	14.1
HF00-022	16.0	12.6	12.7	14.2	14.8
HF00-072	15.8	14.3	12.0	13.6	15.1
LG99-5126	15.1	11.6	12.5	12.9	13.4
LG00-2483	16.5	12.0	11.5	14.8	12.7
LG00-3063	16.1	13.3	13.7	14.0	13.9
LG00-3268	18.0	13.6	12.5	13.2	14.6
SD99-262	18.5	13.1	14.6	17.0	17.3
SD99-454	16.4	17.9	17.5	18.2	19.2
SD99-456	16.4	17.0	15.3	16.6	17.1
SD99-486	16.4	15.4	14.2	16.0	16.8
SD99-1109	14.8	14.0	13.6	14.8	16.3
SD99-1758	13.8	11.5	11.0	14.1	12.5
U00-220157	18.6	16.6	16.8	17.0	18.8
U00-407036	21.1	17.1	18.3	20.0	18.3
U00-407044	21.7	18.1	16.7	18.3	18.1
U00-421006	19.6	17.9	16.1	19.5	19.2
U00-426036	18.9	15.2	15.6	16.4	17.3
U00-432012	20.9	18.4	16.4	20.5	18.4

PRELIMINARY TEST II, 2002

SEED QUALITY (score)

Strain	Mean 5 Tests	Ames IA	Rippey IA	Urbana IL	Lafayette IN	Ingham County MI	Cotesfield NE
IA2021 (II)	1.9			2.0	1.0		
IA1008 (SCN)	2.3			2.5	1.5		
IA2052 (L)	1.9			2.0	1.0		
Loda (SCN)	2.4			2.5	1.0		
A01-409005	2.7			2.5	1.5		
A01-410005	2.1			2.0	1.0		
A01-410008	2.3			2.5	1.0		
A01-510004	2.3			2.5	1.5		
A01-510038	2.2			2.5	1.0		
A01-510046	3.0			3.5	1.5		
A01-511015	2.6			3.0	1.5		
A01-511020	2.4			2.5	1.5		
A01-511047	2.2			2.5	1.0		
A01-511050	2.3			3.0	2.0		
A01-511055	2.4			3.0	1.0		
A01-512025	2.1			2.0	1.0		
A01-512030	1.9			2.0	1.0		
A01-512050	2.4			3.0	1.0		
A01-612006	2.3			2.0	1.5		
C2025	1.8			2.0	1.0		
C2030	1.8			1.5	1.0		
E00001	2.2			2.5	1.0		
E00003	2.0			2.0	1.5		
E00075	1.9			2.0	1.0		
E00085	2.2			2.5	1.0		
E00112	2.0			2.0	1.5		
E00239	2.4			3.0	1.0		
E00258	1.7			2.0	1.0		
E00290	1.7			2.0	1.0		
HF00-022	1.7			2.0	1.0		
HF00-072	2.1			3.0	1.0		
LG99-5126	1.7			2.0	1.0		
LG00-2483	1.9			2.5	1.0		
LG00-3063	1.5			2.0	1.0		
LG00-3268	1.8			2.0	1.0		
SD99-262	2.9			3.0	1.0		
SD99-454	2.4			2.0	1.5		
SD99-456	2.5			2.0	2.0		
SD99-486	2.3			2.0	1.0		
SD99-1109	1.9			2.0	1.0		
SD99-1758	1.9			2.0	1.0		
U00-220157	2.5			2.5	1.0		
U00-407036	1.9			2.0	1.0		
U00-407044	2.0			2.5	1.5		
U00-421006	2.6			2.5	1.0		
U00-426036	2.2			2.0	1.5		
U00-432012	1.7			2.0	1.0		

PRELIMINARY TEST II, 2002

SEED QUALITY (score)

Strain	Palmyra NE	Hoytville OH	Harrow Ont.	Beresford SD	Brookings SD
IA2021 (II)		1.4		4.0	1.0
IA1008 (SCN)		2.6		3.0	2.0
IA2052 (L)		1.5		3.0	2.0
Loda (SCN)		1.5		4.0	3.0
A01-409005		2.3		4.0	3.0
A01-410005		1.5		4.0	2.0
A01-410008		1.8		4.0	2.0
A01-510004		1.6		3.0	3.0
A01-510038		2.6		3.0	2.0
A01-510046		2.9		4.0	3.0
A01-511015		1.6		4.0	3.0
A01-511020		2.1		3.0	3.0
A01-511047		1.7		3.0	3.0
A01-511050		1.5		3.0	2.0
A01-511055		2.1		3.0	3.0
A01-512025		1.7		3.0	3.0
A01-512030		1.4		3.0	2.0
A01-512050		1.9		3.0	3.0
A01-612006		2.0		3.0	3.0
C2025		1.9		2.0	2.0
C2030		1.4		3.0	2.0
E00001		1.7		3.0	3.0
E00003		2.6		2.0	2.0
E00075		1.5		2.0	3.0
E00085		1.5		3.0	3.0
E00112		1.5		3.0	2.0
E00239		1.9		3.0	3.0
E00258		1.7		2.0	2.0
E00290		2.3		2.0	1.0
HF00-022		1.4		2.0	2.0
HF00-072		1.7		2.0	3.0
LG99-5126		1.5		2.0	2.0
LG00-2483		1.9		2.0	2.0
LG00-3063		1.5		2.0	1.0
LG00-3268		1.8		2.0	2.0
SD99-262		2.6		4.0	4.0
SD99-454		2.5		3.0	3.0
SD99-456		2.4		4.0	2.0
SD99-486		2.5		3.0	3.0
SD99-1109		1.4		3.0	2.0
SD99-1758		1.6		3.0	2.0
U00-220157		1.8		3.0	4.0
U00-407036		1.5		3.0	2.0
U00-407044		1.9		2.0	2.0
U00-421006		2.4		4.0	3.0
U00-426036		2.7		2.0	3.0
U00-432012		1.6		2.0	2.0

PRELIMINARY TEST II, 2002

GREEN STEM (score)

Strain	Mean 2 Tests	Palmyra NE	Harrow Ont.
IA2021 (II)	2.0	3.0	1.0
IA1008 (SCN)	2.0	3.0	1.0
IA2052 (L)	2.0	3.0	1.0
Loda (SCN)	2.0	3.0	1.0
A01-409005	2.0	3.0	1.0
A01-410005	1.5	2.0	1.0
A01-410008	2.0	3.0	1.0
A01-510004	2.5	4.0	1.0
A01-510038	1.5	2.0	1.0
A01-510046	2.0	3.0	1.0
A01-511015	2.0	3.0	1.0
A01-511020	3.0	5.0	1.0
A01-511047	1.0	1.0	1.0
A01-511050	1.0	1.0	1.0
A01-511055	2.0	3.0	1.0
A01-512025	1.5	2.0	1.0
A01-512030	1.0	1.0	1.0
A01-512050	1.5	2.0	1.0
A01-612006	1.5	2.0	1.0
C2025	1.5	2.0	1.0
C2030	2.0	3.0	1.0
E00001	1.5	2.0	1.0
E00003	2.5	4.0	1.0
E00075	2.0	3.0	1.0
E00085	2.0	3.0	1.0
E00112	2.0	3.0	1.0
E00239	2.5	4.0	1.0
E00258	1.5	2.0	1.0
E00290	2.0	3.0	1.0
HF00-022	1.5	2.0	1.0
HF00-072	1.5	2.0	1.0
LG99-5126	2.5	4.0	1.0
LG00-2483	2.0	3.0	1.0
LG00-3063	1.5	2.0	1.0
LG00-3268	1.5	2.0	1.0
SD99-262	1.5	2.0	1.0
SD99-454	3.0	5.0	1.0
SD99-456	3.0	5.0	1.0
SD99-486	2.0	3.0	1.0
SD99-1109	2.0	3.0	1.0
SD99-1758	1.5	2.0	1.0
U00-220157	1.0	1.0	1.0
U00-407036	1.5	2.0	1.0
U00-407044	1.5	2.0	1.0
U00-421006	1.5	2.0	1.0
U00-426036	1.5	2.0	1.0
U00-432012	2.0	3.0	1.0

PRELIMINARY TEST II, 2002

PROTEIN (%)

Strain	Mean 5 Tests	Ames IA	Urbana IL	Lafayette IN	Cotesfield NE	Hoytville OH
IA2021 (II)	37.6	37.9	39.3	38.6	34.6	37.8
IA1008 (SCN)	38.6	40.0	39.4	40.5	39.1	34.1
IA2052 (L)	39.8	42.4	41.5	40.9	39.8	34.3
Loda (SCN)	39.4	40.1	40.8	40.6	38.4	37.0
A01-409005	39.9	40.9	41.3	42.4	39.2	35.9
A01-410005	39.9	43.2	39.4	40.9	37.8	38.2
A01-410008	39.6	40.5	41.8	42.0	38.9	34.7
A01-510004	40.4	41.4	42.1	42.1	39.6	36.9
A01-510038	39.9	40.8	40.6	42.0	37.4	38.9
A01-510046	38.3	41.1	39.6	40.3	36.6	34.1
A01-511015	40.4	40.9	41.8	41.7	39.3	38.5
A01-511020	38.9	41.6	39.7	39.5	37.2	36.6
A01-511047	40.2	42.0	41.0	40.3	38.3	39.5
A01-511050	39.1	40.7	41.1	41.5	36.4	35.6
A01-511055	39.1	40.2	40.2	40.7	39.1	35.4
A01-512025	39.0	39.7	40.6	41.5	37.2	36.0
A01-512030	38.8	41.5	40.0	40.8	36.9	34.7
A01-512050	39.1	40.2	39.9	39.7	36.9	38.7
A01-612006	42.4	43.0	45.5	43.8	39.9	39.8
C2025	38.2	39.0	38.1	39.9	37.2	36.9
C2030	38.6	39.3	40.0	41.2	38.1	34.5
E00001	38.9	39.3	40.5	39.6	37.6	37.6
E00003	38.7	39.0	40.5	41.8	37.7	34.7
E00075	39.1	40.0	41.2	40.0	39.7	34.8
E00085	40.5	39.3	42.7	41.7	38.3	40.4
E00112	41.3	41.8	43.6	43.2	40.7	37.3
E00239	41.6	42.5	44.0	42.4	41.2	37.9
E00258	40.5	40.7	42.2	43.6	39.6	36.5
E00290	38.8	40.0	41.0	41.1	36.9	35.2
HF00-022	40.1	40.3	42.3	42.1	39.7	35.9
HF00-072	39.4	39.6	42.7	41.0	38.0	35.8
LG99-5126	38.2	39.6	39.5	39.4	38.9	33.6
LG00-2483	38.8	38.6	40.9	40.5	39.4	34.7
LG00-3063	38.8	37.9	39.8	40.1	39.9	36.4
LG00-3268	40.4	40.8	42.6	41.4	38.1	38.9
SD99-262	41.1	42.0	42.0	42.9	40.7	38.1
SD99-454	40.6	40.8	40.5	43.1	40.2	38.2
SD99-456	39.3	39.5	40.5	41.2	38.6	36.8
SD99-486	39.1	39.8	39.3	41.3	38.7	36.1
SD99-1109	39.3	39.5	40.5	41.9	39.6	34.7
SD99-1758	38.9	39.1	40.4	41.5	38.4	35.3
U00-220157	40.7	41.4	42.2	43.3	38.0	38.5
U00-407036	39.7	39.4	41.9	41.7	39.6	36.2
U00-407044	39.5	39.5	41.6	40.3	38.5	37.9
U00-421006	41.2	42.4	40.2	44.3	40.2	38.9
U00-426036	41.1	41.7	42.5	43.1	39.6	38.4
U00-432012	38.3	38.7	37.1	39.3	38.8	37.5

PRELIMINARY TEST II, 2002

OIL (%)

Strain	Mean 5 Tests	Ames IA	Urbana IL	Lafayette IN	Cotesfield NE	Hoytville OH
IA2021 (II)	22.0	22.0	22.2	22.5	22.8	20.7
IA1008 (SCN)	20.1	19.1	19.5	19.1	20.1	22.8
IA2052 (L)	19.7	19.4	20.5	19.0	19.8	19.8
Loda (SCN)	19.9	20.1	19.1	20.6	20.6	19.1
A01-409005	19.7	18.4	19.4	19.9	19.7	20.9
A01-410005	20.6	19.2	22.2	20.7	21.1	20.1
A01-410008	19.3	18.5	19.1	18.5	19.2	21.3
A01-510004	20.0	18.3	20.4	20.6	20.5	20.5
A01-510038	20.0	19.7	19.0	20.6	21.2	19.4
A01-510046	19.7	18.3	19.8	19.0	20.6	20.8
A01-511015	19.7	19.7	19.7	19.3	20.1	19.8
A01-511020	19.2	18.2	19.5	19.1	19.6	19.7
A01-511047	18.6	18.3	19.1	17.9	19.2	18.5
A01-511050	19.9	20.1	20.3	18.4	20.7	20.2
A01-511055	19.6	18.8	19.2	19.5	19.6	20.6
A01-512025	19.6	18.8	19.9	19.4	19.8	19.9
A01-512030	19.5	18.3	19.8	19.6	19.3	20.4
A01-512050	19.4	18.6	20.1	19.9	20.5	17.8
A01-612006	18.3	17.8	18.4	17.9	18.6	18.7
C2025	20.4	20.3	20.4	20.3	20.6	20.5
C2030	20.0	19.5	20.2	19.8	20.1	20.2
E00001	19.9	19.9	19.4	20.1	20.8	19.3
E00003	20.5	20.6	20.6	19.9	20.3	21.1
E00075	20.0	19.7	20.0	20.3	18.9	21.3
E00085	20.1	20.0	21.0	20.4	20.7	18.4
E00112	20.2	19.5	19.9	19.9	20.1	21.4
E00239	19.5	19.5	19.3	20.3	19.1	19.6
E00258	20.0	19.8	19.8	20.1	19.6	20.7
E00290	20.0	19.5	19.5	19.8	20.3	21.1
HF00-022	19.4	18.6	19.4	19.9	18.8	20.1
HF00-072	20.6	20.1	20.1	20.5	20.6	21.5
LG99-5126	20.3	19.2	20.6	20.6	20.0	21.3
LG00-2483	19.5	18.9	19.5	20.1	18.6	20.6
LG00-3063	20.0	19.0	21.3	19.9	19.4	20.3
LG00-3268	19.2	19.2	18.6	18.9	20.3	18.9
SD99-262	19.0	18.2	19.5	18.9	18.9	19.5
SD99-454	19.5	19.2	20.3	19.9	18.6	19.8
SD99-456	20.3	19.8	20.2	20.0	20.6	20.8
SD99-486	19.7	19.2	21.3	19.4	19.5	19.1
SD99-1109	20.4	19.4	20.9	19.9	20.0	21.8
SD99-1758	19.6	18.8	19.9	20.0	18.6	20.5
U00-220157	20.8	19.2	21.9	20.5	21.6	20.7
U00-407036	20.8	19.9	21.2	20.8	21.2	21.0
U00-407044	20.4	19.7	20.2	20.7	20.7	20.5
U00-421006	19.8	18.5	20.6	19.3	20.8	19.9
U00-426036	19.3	18.3	19.2	19.0	19.9	19.9
U00-432012	20.5	19.7	21.8	20.8	20.6	19.4

Uniform Test III, 2002

Ent.	Strain	Parentage	Previous Testing	Generation Composited	Unique Traits
1	IA3010 (III)	Jacques J285 x Northrup King S29-39	6	F5	
2.	IA2052 (II)	Northrup King S24-92 x Parker	2	F5	
3.	IA3014	LN90-4366 x IA3005	2	?	
4.	Macon (L)	Sherman x Resnik	9	F5	
5.	NE3001	Colfax x A91-701035	4	F4	determinate
6.	Apex (HC94-1065)	HC85-607 x HC78-676 BC	3	F5	dt1
7.	A99-315026	Dairyland DSR-365 x Pioneer P9381	1	F5	
8.	A00-912026	Pioneer P9321 x IA2038	PTIIIA	F5	
9.	A00-912029	Pioneer P9321 x IA2038	PTIIIA	F5	
10.	E98195	IA2022 x Northrup King S19-90	00-PTIIIB	F7	
11.	E99132	A92-525014 x Dairyland DSR-277	PTIIIB	F6	
12.	E99178	Colfax x AP3355	PTIIIB	F6	
13.	E99246	Pioneer P9281 x Northrup King S19-90	PTIIIB	F6	
14.	E99248	Pioneer P9281 x Northrup King S19-90	PTIIIB	F6	
15.	E99279	IA2022 x Northrup King S19-90	PTIIIB	F6	
16.	HC97-245R	Charleston x HC74-634RE BC	PTIIIB	F4	dt1
17.	HC97-545	HC83-4532 BC x Charleston BC	PTIIIB	F4	dt1
18.	HC97-4358	Charleston BC x HC89-868	PTIIIB	F4	dt1
19.	HC98-303	HC89-1640 x Charleston BC	PTIIIB	F4	dt1
20.	HC98-1019	Sprite 87 x HC85-6577	PTIIIB	F4	dt1
21.	HC98-1025	Sprite 87 x HC85-6577	PTIIIB	F4	dt1
22.	K1514	Macon x U93-3122	PTIIIA	F5	
23.	LG97-7012	LG89-1525 x Asgrow A3322	PTIIB	F6	
24.	LG98-1445	LG91-7431 x Pioneer 9273	PTIIB	F6	
25.	U98-307162	U94-3412 x A94-774021	1	F5	
26.	U98-307917	U94-2306 x A92-525014	1	F5	
27.	U99-005032	MSBP6S4	PTIIIB	S5	
28.	U99-035014	MSBP6S4	PTIIB	S5	
29.	U99-045080	MSBP6S4	PTIIIB	S5	
30.	U99-046063	MSBP6S4	PTIIIB	S5	

UNIFORM TEST III, 2002

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	Chlorosis Score		Shattering Score		PR Lafayette		Hard Seed	PS Lafayette	P&SB
		Yellow Medicine Co.	Humboldt IA	Manhattan KS	Kingdom City MO	Race 4	Race 7	%	a %	n %
IA3010 (III)	PTTDYGrI	3.5	1.8	3.0	2.0	S	R	14	12	10
IA2052 (II)	WGBIYBfI	4.5	2.1	1.0	5.0	S	S	4	22	2
IA3014	WTTDYBlI	3.5	2.0	2.0	3.0	S	R	6	8	2
Macon (L)	WTBIYBlI	5.0	3.3	1.0	1.0	S	S	12	16	2
NE3001	WGBSYBfD	4.5	2.6	2.0	2.0	H	H	0	2	2
Apex (HC94-1065)	PTBIYBlD	4.0	2.8	2.0	2.0	R	R	0	14	4
A99-315026	WLtTDYBlI	4.0	2.6	1.0	4.0	S	S	0	2	4
A00-912026	PLtTBIYBrI	5.0	2.9	2.0	4.0	S	S	6	8	2
A00-912029	PLtBDIYBrI	2.5	2.9	2.0	5.0	S	S	10	6	0
E98195	PLtTDYBlI	3.5	2.9	1.0	1.0	S	R	0	16	4
E99132	WTBDYBlI	5.0	3.0	2.0	1.0	S	S	2	18	2
E99178	PTSDYBlI	5.0	3.3	1.0	1.0	S	S	8	8	2
E99246	PTBDYBlI	4.5	2.4	1.0	1.0	H	R	0	24	6
E99248	PTBDYHI	3.5	2.0	2.0	2.0	H	R	4	20	2
E99279	PGBDYGrI	4.5	2.8	2.0	3.0	S	R	0	16	2
HC97-245R	WTTIYBlD	4.5	2.6	1.0	2.0	S	S	0	4	0
HC97-545	WTTIYBlD	3.5	2.4	1.0	4.0	R	R	0	6	0
HC97-4358	PTBIYBlD	2.5	2.8	2.0	1.0	R	R	4	6	4
HC98-303	WTTIYBlD	4.5	3.0	1.0	4.0	R	R	0	4	0
HC98-1019	WTTIYBlD	3.0	2.1	1.0	1.0	S	S	8	4	0
HC98-1025	P+WTTDYBlD	2.0	2.0	2.0	2.0	R	R	8	34	2
K1514	WTTDYBlI	4.0	4.0	1.0	2.0	S	S	20	18	16
LG97-7012	WGTDYBfI	2.5	1.9	1.0	3.0	H	R	6	14	0
LG98-1445	PTBDYLblI	3.0	2.9	2.0	5.0	S	S	12	2	6
U98-307162	PTTDYBrI	2.0	2.4	2.0	1.0	S	R	0	6	0
U98-307917	WLtBDYBl+BrI	2.5	3.8	1.0	1.0	S	S	6	8	2
U99-005032	WLtBDYBrI	3.5	2.5	2.0	3.0	S	S	4	26	4
U99-035014	PGBDYGrI	2.5	1.6	2.0	2.0	S	S	6	28	2
U99-045080	PLtBDYBlI	4.5	2.3	1.0	1.0	S	S	0	14	4
U99-046063	WLtBDYBlI	5.0	2.6	2.0	4.0	R	R	0	30	2

UNIFORM TEST III, 2002

REGIONAL SUMMARY

No. of Tests Strain	Yield 19 bu/a	Rank 19 No.	Maturity 17 Date	Lodging 20 Score	Plant Height 20 In.	Seed Size 20 g/100	Seed Quality 14 Score	Green Stem 3 score	Composition Protein 5 %	 Oil 5 %
IA3010 (III)	50.8	7	9/20	1.2	26	14.9	2.4	2.2	40.8	18.9
IA2052 (II)	43.6	29	-6.8	1.4	30	14.8	2.3	3.0	40.8	19.2
IA3014	49.4	14	0.6	1.5	31	14.4	2.1	2.7	39.8	20.1
Macon (L)	49.7	12	5.5	1.4	30	16.6	2.0	2.6	41.5	19.5
NE3001	46.7	26	-1.5	1.2	21	17.3	2.6	3.3	40.8	19.9
Apex (HC94-1065)	51.2	5	3.7	1.1	20	15.2	2.4	2.9	39.1	20.6
A99-315026	53.1	3	1.2	1.2	28	15.5	1.9	2.8	39.7	19.6
A00-912026	51.0	6	-0.7	1.3	30	14.0	2.4	2.8	40.9	18.9
A00-912029	50.0	11	-1.0	1.4	30	13.8	2.5	2.7	41.7	18.3
E98195	48.4	18	-1.9	1.2	26	16.7	2.3	2.5	40.6	18.9
E99132	48.6	16	-0.3	1.3	27	14.3	2.3	2.7	40.2	19.6
E99178	45.5	27	1.0	1.2	24	17.0	2.3	3.4	40.8	20.7
E99246	47.1	25	1.1	1.2	26	17.6	2.6	3.5	40.9	20.7
E99248	48.0	22	2.3	1.2	30	15.8	2.8	3.9	40.5	19.6
E99279	47.7	23	-1.4	1.4	31	16.5	2.5	2.5	41.0	19.0
HC97-245R	42.7	30	5.2	1.2	18	17.4	1.9	3.2	41.8	19.7
HC97-545	48.7	15	5.5	1.3	19	15.9	1.8	2.6	40.3	19.8
HC97-4358	48.1	20	7.3	1.2	21	17.3	2.5	2.9	41.3	19.1
HC98-303	48.5	17	4.5	1.2	18	15.7	1.8	3.4	40.1	20.0
HC98-1019	47.3	24	7.1	1.2	20	16.1	2.0	2.3	40.0	20.0
HC98-1025	48.2	19	5.9	1.2	19	15.0	2.0	4.0	39.3	19.7
K1514	53.4	2	7.6	1.5	32	15.5	2.3	2.5	40.1	19.7
LG97-7012	45.4	28	-2.2	1.4	30	17.5	2.4	2.6	40.9	19.4
LG98-1445	48.1	20	-3.3	1.5	30	15.1	2.3	2.7	40.1	20.8
U98-307162	53.8	1	1.6	1.3	27	14.8	2.1	2.7	39.1	19.6
U98-307917	50.4	9	1.1	1.4	29	14.7	2.0	2.7	41.6	19.4
U99-005032	50.6	8	-0.9	1.2	28	14.4	2.0	2.3	40.8	19.9
U99-035014	51.4	4	-2.9	1.6	31	16.6	2.4	3.8	40.7	19.8
U99-045080	49.5	13	-0.9	1.3	28	15.7	1.9	2.5	40.3	20.8
U99-046063	50.2	10	-0.6	1.1	28	16.4	2.1	3.3	40.4	20.1

126.1 Days After Planting

UNIFORM TEST III, 2002

2001-2002 2-YEAR MEAN

No. of Tests Strain	Yield 39 bu/a	Rank 39 No.	Maturity 35 Date	Lodging 41 Score	Plant Height 39 In.	Seed Size 39 g/100	Seed Quality 27 Score	Green Stem 10 Score	Composition Protein 9 %	 Oil 9 %
IA3010 (III)	49.5	7	9/22	1.1	27	14.6	2.1	1.9	39.9	20.0
IA2052 (II)	45.6	9	-6.0	1.4	32	14.6	2.1	2.5	40.4	20.5
IA3014	51.6	6	-0.3	1.6	33	14.2	1.9	2.3	39.8	20.7
Macon (L)	51.9	5	4.2	1.4	32	16.2	1.9	2.7	41.1	20.3
NE3001	48.8	8	-1.8	1.2	21	17.1	2.3	2.5	39.8	21.2
Apex (HC94-1065)	52.8	4	2.5	1.2	21	15.0	2.1	2.6	38.9	21.4
A99-315026	54.7	1	0.4	1.2	29	15.3	1.8	2.5	39.4	20.8
U98-307162	54.5	2	1.0	1.4	29	14.6	1.8	2.4	39.3	20.5
U98-307917	53.5	3	1.2	1.4	31	14.7	1.9	2.4	40.8	20.4

129.4 Days After Planting

UNIFORM TEST III, 2002

YIELD (bu/a)

Strain	Mean 19 Tests	Fayetteville* irrigated AR	Keiser* irrigated AR	Rohwer* irrigated AR	Ames IA	Carlisle IA	Richland IA
IA3010 (III)	50.8	41.7	45.9	44.1	77.2	62.2	60.0
IA2052 (II)	43.6	35.5	34.1	20.9	63.9	56.2	57.8
IA3014	49.4	42.2	46.9	45.1	65.7	50.7	62.4
Macon (L)	49.7	32.5	56.0	49.2	59.2	54.2	61.1
NE3001	46.7	35.5	38.8	29.8	67.9	66.3	55.6
Apex (HC94-1065)	51.2	34.0	25.6	31.9	73.7	68.9	57.0
A99-315026	53.1	40.8	44.1	25.5	76.4	66.4	69.4
A00-912026	51.0	37.8	58.3	32.7	69.5	70.7	67.8
A00-912029	50.0	39.4	45.5	32.3	75.1	66.4	71.8
E98195	48.4	47.5	43.3	40.1	72.2	62.6	48.1
E99132	48.6	40.2	37.8	38.5	66.1	54.4	62.9
E99178	45.5	44.8	41.8	34.7	60.0	45.0	57.7
E99246	47.1	40.8	39.0	35.7	67.0	62.5	53.5
E99248	48.0	35.8	52.6	39.1	60.5	61.7	61.2
E99279	47.7	55.9	58.6	33.6	61.3	63.1	60.0
HC97-245R	42.7	34.9	11.7	24.0	57.1	51.1	55.9
HC97-545	48.7	32.5	51.8	28.8	60.4	60.2	64.0
HC97-4358	48.1	40.1	42.3	26.7	58.1	58.4	58.0
HC98-303	48.5	40.3	45.3	35.9	64.9	64.5	61.5
HC98-1019	47.3	34.6	26.8	29.0	56.4	55.8	57.2
HC98-1025	48.2	42.7	11.4	15.0	62.8	49.5	59.8
K1514	53.4	40.0	60.1	50.8	68.1	56.8	67.1
LG97-7012	45.4	41.1	26.7	29.6	59.2	62.8	60.0
LG98-1445	48.1	35.8	25.3	25.4	64.5	58.8	60.7
U98-307162	53.8	44.9	54.2	27.0	65.1	64.5	60.3
U98-307917	50.4	40.3	48.2	36.6	61.6	61.6	63.0
U99-005032	50.6	44.8	31.5	36.9	70.1	63.8	61.5
U99-035014	51.4	47.5	36.7	35.0	67.8	63.9	65.9
U99-045080	49.5	42.0	39.3	30.0	62.0	61.8	63.6
U99-046063	50.2	53.1	36.4	27.9	65.8	62.1	60.8
C.V. (%)		16.1	19.1	18.2	7.7	8.1	8.0
L.S.D. (5%)		11.6	14.7	11.2	10.2	10.0	9.9
Row Sp. (in.)		15	15	15	27	27	27
Rows/Plot		4	5	5	4	4	4
Reps		3	3	3	2	2	2

* Data not included in mean.

UNIFORM TEST III, 2002

YIELD (bu/a)

Strain	Newton IL	Urbana IL	Butlerville* IN	Lafayette IN	Wanatah IN	Manahattan KS	Seneca KS
IA3010 (III)	44.4	61.8	32.5	55.4	35.7	68.0	26.4
IA2052 (II)	43.4	56.4	34.9	53.3	36.8	47.7	21.6
IA3014	49.1	64.5	45.5	63.6	35.8	60.0	24.3
Macon (L)	45.8	61.7	41.5	57.5	41.0	60.7	27.2
NE3001	41.3	65.2	16.2	44.6	31.6	48.8	22.8
Apex (HC94-1065)	45.7	72.8	23.6	62.8	36.6	63.3	25.9
A99-315026	47.6	71.0	19.3	62.1	40.2	64.1	26.9
A00-912026	49.3	62.5	28.6	57.8	40.1	67.3	22.9
A00-912029	44.4	58.4	32.2	56.1	37.8	68.4	21.1
E98195	50.5	64.2	22.8	57.9	38.2	57.7	27.7
E99132	48.1	62.1	22.3	57.2	38.1	60.5	26.7
E99178	39.1	57.9	37.2	55.4	38.4	46.8	24.6
E99246	50.9	59.8	46.0	61.7	42.5	55.0	24.8
E99248	44.4	54.7	39.1	52.7	37.1	57.3	25.4
E99279	46.7	60.2	42.6	56.4	50.0	60.0	21.0
HC97-245R	39.9	64.9	17.6	44.0	34.1	49.6	20.1
HC97-545	38.9	68.2	21.3	58.8	33.9	60.5	22.3
HC97-4358	42.9	67.9	22.1	62.5	35.3	55.6	23.5
HC98-303	40.6	68.3	16.8	54.0	32.8	58.5	27.9
HC98-1019	45.4	67.6	17.3	54.8	34.7	47.3	22.7
HC98-1025	50.3	69.6	27.1	54.7	31.4	55.7	25.7
K1514	50.3	67.4	38.4	66.3	32.8	69.5	22.3
LG97-7012	48.5	59.8	18.8	51.7	34.2	49.5	26.7
LG98-1445	48.2	61.6	32.0	56.9	40.8	60.5	26.1
U98-307162	48.5	65.7	49.3	68.1	44.2	69.7	25.8
U98-307917	49.0	65.7	37.6	60.2	36.1	63.4	23.2
U99-005032	45.8	66.1	20.6	52.4	42.1	66.4	24.9
U99-035014	47.9	66.1	38.7	61.6	39.0	62.9	25.5
U99-045080	45.1	62.8	37.3	63.5	44.6	66.1	21.7
U99-046063	52.0	61.1	36.3	58.2	47.5	63.7	24.8
C.V. (%)	10.7	4.6	25.5	10.2	15.1	7.3	12.5
L.S.D. (5%)	8.0	4.9	12.8	9.7	9.5	8.8	5.0
Row Sp. (in.)	30	30	26	24	26	30	30
Rows/Plot	4	4	4	4	4	4	4
Reps	3	3	3	3	3	3	3

UNIFORM TEST III, 2002

YIELD (bu/a)

Strain	Queenstown MD	Kingdom City MO	Portageville (Clay) MO	Portageville (Loam) MO	Palmyra NE	Plymouth NE
IA3010 (III)	25.6	46.6	36.9	41.6	68.1	40.4
IA2052 (II)	24.1	25.4	22.8	17.9	59.3	34.7
IA3014	17.5	42.9	33.4	30.5	73.4	48.7
Macon (L)	17.8	49.8	42.1	48.3	65.2	41.2
NE3001	20.0	51.3	19.9	26.7	68.6	41.1
Apex (HC94-1065)	14.8	51.4	27.5	26.1	69.7	35.7
A99-315026	17.2	43.1	45.8	32.5	80.5	40.3
A00-912026	19.3	46.9	38.1	40.3	70.4	34.2
A00-912029	19.0	41.3	35.9	33.4	73.8	36.9
E98195	20.6	48.4	35.4	35.7	62.7	32.1
E99132	19.5	46.2	35.9	31.1	74.5	39.7
E99178	25.2	49.0	27.1	34.0	50.4	45.0
E99246	17.5	45.6	25.2	31.6	62.0	29.5
E99248	21.1	42.9	35.0	38.6	60.8	50.6
E99279	22.8	39.7	32.2	37.4	55.9	32.0
HC97-245R	24.9	35.7	27.2	26.1	64.5	19.0
HC97-545	18.1	47.6	44.5	34.5	69.5	27.9
HC97-4358	18.5	38.0	39.5	28.5	67.1	37.2
HC98-303	18.9	39.9	43.5	33.1	62.4	26.7
HC98-1019	20.3	41.0	43.0	36.2	67.5	33.0
HC98-1025	20.6	46.1	49.0	30.0	68.6	27.1
K1514	25.7	46.7	57.4	46.9	71.4	47.8
LG97-7012	21.8	38.1	30.2	23.4	52.9	34.7
LG98-1445	19.9	40.0	23.9	29.1	67.3	47.8
U98-307162	24.4	48.1	49.3	45.1	67.8	52.3
U98-307917	18.9	41.5	38.4	42.6	76.2	42.6
U99-005032	25.8	44.4	33.8	39.2	74.6	27.8
U99-035014	24.8	40.4	41.5	34.1	69.7	47.2
U99-045080	22.9	39.2	37.3	42.5	65.2	37.5
U99-046063	26.0	38.4	37.3	35.7	63.9	49.7
C.V. (%)	18.9	9.3	9.7	9.9	7.7	12.5
L.S.D. (5%)	6.5	5.5	4.8	4.7	8.7	9.7
Row Sp. (in.)	24	30	30	30	30	30
Rows/Plot	4	4	4	4	4	4
Reps	3	3	3	3	2	2

UNIFORM TEST III, 2002

YIELD (bu/a)

Strain	Tekamah NE	Hoytville OH	Wooster OH	So. Charleston. OH
IA3010 (III)	67.3	54.3	38.8	54.6
IA2052 (II)	66.2	52.0	41.0	47.1
IA3014	56.7	67.3	43.4	49.4
Macon (L)	58.5	51.3	40.9	60.9
NE3001	66.9	49.4	41.0	58.9
Apex (HC94-1065)	71.2	60.2	46.2	64.2
A99-315026	69.3	58.8	39.1	59.1
A00-912026	51.9	55.6	43.7	61.5
A00-912029	62.0	47.0	43.4	56.9
E98195	68.0	49.8	40.9	47.8
E99132	61.5	52.3	30.3	57.1
E99178	60.1	50.2	38.5	59.8
E99246	59.5	48.2	39.1	59.1
E99248	63.9	52.2	36.2	54.7
E99279	55.9	54.0	38.0	60.5
HC97-245R	62.2	43.6	41.9	49.3
HC97-545	61.6	51.7	42.2	61.2
HC97-4358	69.5	56.6	35.1	60.8
HC98-303	65.7	56.1	45.1	56.4
HC98-1019	63.5	52.2	37.2	62.2
HC98-1025	62.4	57.6	40.4	55.2
K1514	63.8	48.7	43.4	61.3
LG97-7012	62.7	49.4	39.6	58.3
LG98-1445	64.6	46.0	39.4	57.4
U98-307162	64.9	58.7	42.1	58.1
U98-307917	60.4	52.7	41.6	59.3
U99-005032	66.0	52.7	47.9	56.1
U99-035014	65.5	54.2	46.8	52.3
U99-045080	59.1	50.1	37.7	58.0
U99-046063	64.7	50.8	32.9	58.7
C.V. (%)	8.3	9.4	10.9	9.1
L.S.D. (5%)	10.8	6.8	6.0	8.6
Row Sp. (in.)	30	7.5	7.5	15
Rows/Plot	4	8	8	6
Reps	2	3	3	3

UNIFORM TEST III, 2002

YIELD RANK

Strain	Yield Rank	Fayetteville* irrigated AR	Keiser* irrigated AR	Rohwer* irrigated AR	Ames IA	Carlisle IA	Richland IA
IA3010 (III)	7	11	10	4	1	14	18
IA2052 (II)	29	24	23	29	18	23	23
IA3014	14	9	9	3	14	28	10
Macon (L)	12	29	4	2	26	26	14
NE3001	26	24	19	19	9	5	28
Apex (HC94-1065)	5	28	27	17	4	2	26
A99-315026	3	14	13	26	2	3	2
A00-912026	6	21	3	15	7	1	3
A00-912029	11	20	11	16	3	3	1
E98195	18	4	14	5	5	12	30
E99132	16	17	20	7	12	25	9
E99178	27	6	16	13	25	30	24
E99246	25	13	18	11	11	13	29
E99248	22	22	6	6	23	17	13
E99279	23	1	2	14	22	10	18
HC97-245R	30	26	29	28	29	27	27
HC97-545	15	29	7	22	24	19	6
HC97-4358	20	18	15	25	28	21	22
HC98-303	17	15	12	10	16	6	11
HC98-1019	24	27	25	21	30	24	25
HC98-1025	19	8	30	30	19	29	21
K1514	2	19	1	1	8	22	4
LG97-7012	28	12	26	20	26	11	18
LG98-1445	20	22	28	27	17	20	16
U98-307162	1	5	5	24	15	6	17
U98-307917	9	15	8	9	21	18	8
U99-005032	8	6	24	8	6	9	11
U99-035014	4	3	21	12	10	8	5
U99-045080	13	10	17	18	20	16	7
U99-046063	10	2	22	23	13	15	15

* Data not included in mean.

UNIFORM TEST III, 2002

YIELD RANK

Strain	Newton IL	Urbana IL	Butlerville IN	Lafayette IN	Wanatah IN	Manahattan KS	Seneca KS
IA3010 (III)	21	20	14	20	21	4	7
IA2052 (II)	24	29	13	25	17	28	27
IA3014	7	15	3	3	20	17	18
Macon (L)	16	21	5	15	7	13	3
NE3001	26	13	30	29	29	27	22
Apex (HC94-1065)	18	1	19	5	18	11	9
A99-315026	14	2	25	7	9	8	4
A00-912026	6	18	17	14	10	5	21
A00-912029	21	27	15	19	15	3	28
E98195	3	16	20	13	13	20	2
E99132	12	19	21	16	14	14	5
E99178	29	28	11	20	12	30	17
E99246	2	25	2	8	5	24	15
E99248	21	30	6	26	16	21	13
E99279	15	24	4	18	1	17	29
HC97-245R	28	14	27	30	25	25	30
HC97-545	30	5	23	11	26	14	24
HC97-4358	25	6	22	6	22	23	19
HC98-303	27	4	29	24	27	19	1
HC98-1019	19	7	28	22	23	29	23
HC98-1025	4	3	18	23	30	22	11
K1514	4	8	8	2	27	2	24
LG97-7012	10	25	26	28	24	26	5
LG98-1445	11	22	16	17	8	14	8
U98-307162	10	11	1	1	4	1	10
U98-307917	8	11	9	10	19	10	20
U99-005032	16	10	24	27	6	6	14
U99-035014	13	10	7	9	11	12	12
U99-045080	20	17	10	4	3	7	26
U99-046063	1	23	12	12	2	9	15

UNIFORM TEST III, 2002

YIELD RANK

Strain	Queenstown MD	Kingdom City MO	Portageville (Clay) MO	Portageville (Loam) MO	Palmyra NE	Plymouth NE
IA3010 (III)	4	10	15	6	14	12
IA2052 (II)	9	30	29	30	27	19
IA3014	27	16	21	22	6	4
Macon (L)	26	3	8	1	19	10
NE3001	17	2	30	26	12	11
Apex (HC94-1065)	30	1	24	27	9	18
A99-315026	29	15	4	19	1	13
A00-912026	20	8	12	7	8	21
A00-912029	21	19	16	17	5	17
E98195	14	5	18	12	23	23
E99132	19	11	16	21	4	14
E99178	5	4	26	16	30	8
E99246	27	13	27	20	25	25
E99248	13	16	19	9	26	2
E99279	11	24	22	10	28	24
HC97-245R	6	29	25	27	21	30
HC97-545	25	7	5	14	11	26
HC97-4358	24	28	10	25	18	16
HC98-303	22	23	6	18	24	29
HC98-1019	16	20	7	11	16	22
HC98-1025	14	12	3	23	12	28
K1514	3	9	1	2	7	6
LG97-7012	12	27	23	29	29	19
LG98-1445	18	22	28	24	17	6
U98-307162	8	6	2	3	15	1
U98-307917	22	18	11	4	2	9
U99-005032	2	14	20	8	3	27
U99-035014	7	21	9	15	9	7
U99-045080	10	25	13	5	19	15
U99-046063	1	26	13	12	22	3

UNIFORM TEST III, 2002

YIELD RANK

Strain	Tekamah NE	Hoytville OH	Wooster OH	So. Charleston. OH
IA3010 (III)	5	9	22	25
IA2052 (II)	7	17	13	30
IA3014	28	1	6	27
Macon (L)	27	19	15	6
NE3001	6	24	13	13
Apex (HC94-1065)	1	2	3	1
A99-315026	3	3	20	11
A00-912026	30	8	5	3
A00-912029	20	28	6	20
E98195	4	23	15	29
E99132	22	14	30	19
E99178	24	21	23	9
E99246	25	27	20	11
E99248	14	15	27	24
E99279	29	11	24	8
HC97-245R	19	30	11	28
HC97-545	21	18	9	5
HC97-4358	2	6	28	7
HC98-303	9	7	4	21
HC98-1019	16	15	26	2
HC98-1025	18	5	17	23
K1514	15	26	6	4
LG97-7012	17	24	18	15
LG98-1445	13	29	19	18
U98-307162	11	4	10	16
U98-307917	23	12	12	10
U99-005032	8	12	1	22
U99-035014	10	10	2	26
U99-045080	26	22	25	17
U99-046063	12	20	29	14

UNIFORM TEST III, 2002

MATURITY (date)

Strain	Mean 17 Tests	Fayetteville* irrigated AR	Keiser* irrigated AR	Rohwer* irrigated AR	Ames IA	Carlisle IA	Richland IA
IA3010 (III)	9/20	9/4		8/3	9/23		
IA2052 (II)	-6.8	-9		-17	-8		
IA3014	0.6	4		-1	-1		
Macon (L)	5.5	-7		6	4		
NE3001	-1.5	-4		-10	-3		
Apex (HC94-1065)	3.7	4		-7	4		
A99-315026	1.2	4		-10	3		
A00-912026	-0.7	4		-6	0		
A00-912029	-1.0	-2		-6	-1		
E98195	-1.9	4		-5	-5		
E99132	-0.3	-3		-4	-3		
E99178	1.0	0		-10	0		
E99246	1.1	-3		2	-1		
E99248	2.3	0		3	0		
E99279	-1.4	4		4	-2		
HC97-245R	5.2	-2		-2	5		
HC97-545	5.5	4		-3	7		
HC97-4358	7.3	4		5	10		
HC98-303	4.5	1		-2	6		
HC98-1019	7.1	4		-2	10		
HC98-1025	5.9	4		-8	8		
K1514	7.6	4		5	9		
LG97-7012	-2.2	-4		-10	-7		
LG98-1445	-3.3	-5		-11	-4		
U98-307162	1.6	4		-3	1		
U98-307917	1.1	4		0	1		
U99-005032	-0.9	-2		-7	0		
U99-035014	-2.9	-9		-9	-3		
U99-045080	-0.9	-3		-11	-2		
U99-046063	-0.6	4		-8	-4		
Date Planted	5/17	4/30	4/25	4/16	5/4	5/8	5/22
Days to Mature	126	127		109	142		

* Data not included in mean.

UNIFORM TEST III, 2002

MATURITY (date)

Strain	Newton IL	Urbana IL	Butlerville IN	Lafayette IN	Wanatah IN	Manahattan KS	Seneca KS
IA3010 (III)	9/20	9/30	9/22	9/30	9/23	9/26	
IA2052 (II)	-4	-4	-8	-7	-10	4	
IA3014	1	-1	1	0	3	2	
Macon (L)	7	3	3	4	7	8	
NE3001	5	0	-4	-3	-2	7	
Apex (HC94-1065)	5	2	4	3	4	5	
A99-315026	-1	0	-4	1	3	6	
A00-912026	-1	-1	-5	-1	0	1	
A00-912029	-3	-2	-5	-1	1	2	
E98195	0	-2	-2	-3	-3	-0	
E99132	0	0	-1	0	0	2	
E99178	5	-2	1	1	0	8	
E99246	6	-1	3	0	-2	5	
E99248	3	1	2	1	-2	5	
E99279	1	-2	-1	-1	-2	0	
HC97-245R	7	3	4	5	8	9	
HC97-545	7	1	4	2	10	5	
HC97-4358	9	5	4	8	6	11	
HC98-303	4	2	4	1	8	5	
HC98-1019	7	5	5	5	11	9	
HC98-1025	6	2	4	3	12	8	
K1514	10	5	6	7	11	8	
LG97-7012	-2	-4	-5	-3	-4	5	
LG98-1445	-2	-4	-4	-3	-3	0	
U98-307162	2	1	4	0	3	3	
U98-307917	1	0	-4	0	0	5	
U99-005032	-1	-1	-4	-2	1	1	
U99-035014	-4	-1	-6	0	-3	1	
U99-045080	-1	0	-4	0	-1	4	
U99-046063	-3	0	-4	-1	2	2	
Date Planted	6/4	6/3	5/2	6/3	5/23	5/9	5/20
Days to Mature	108	119	143	119	123	140	

UNIFORM TEST III, 2002

MATURITY (date)

Strain	Queenstown MD	Kingdom City MO	Portageville (Clay) MO	Portageville (Loam) MO	Palmyra NE	Plymouth NE
IA3010 (III)	9/18	9/18	9/8	9/7	9/29	9/14
IA2052 (II)	-9	-7	-6	-14	-3	-7
IA3014	-1	2	-1	-2	2	-1
Macon (L)	4	6	5	9	3	7
NE3001	-5	-6	-4	-6	3	-2
Apex (HC94-1065)	0	6	5	-1	6	3
A99-315026	-5	0	4	-3	5	4
A00-912026	-2	-2	3	-2	0	-2
A00-912029	0	-2	-4	1	0	0
E98195	-4	-1	0	-3	-1	-2
E99132	-2	0	2	-3	1	0
E99178	-3	3	-3	4	6	1
E99246	0	3	4	-3	-1	2
E99248	2	11	5	5	0	1
E99279	-2	-4	-4	-1	-2	-3
HC97-245R	5	4	0	6	9	9
HC97-545	4	6	3	7	9	8
HC97-4358	6	8	9	7	9	11
HC98-303	2	7	1	3	8	7
HC98-1019	1	10	6	6	12	11
HC98-1025	0	10	7	4	11	8
K1514	6	7	5	8	11	10
LG97-7012	-2	-3	0	-4	0	-5
LG98-1445	-8	-2	-6	-4	-2	-3
U98-307162	-2	2	0	4	2	0
U98-307917	-2	0	1	3	2	2
U99-005032	-2	-3	-3	0	2	-1
U99-035014	-7	-2	-5	-5	0	-4
U99-045080	-5	-1	2	3	0	-2
U99-046063	-4	0	4	-1	-1	1
Date Planted	5/29	5/23	5/6	5/9	5/30	5/10
Days to Mature	112	118	125	121	122	127

UNIFORM TEST III, 2002

MATURITY (date)

Strain	Tekamah NE	Hoytville OH	Wooster OH	So. Charleston. OH
IA3010 (III)	10/1	10/1	9/7	9/14
IA2052 (II)	0	-13	-8	-12
IA3014	1	-1	5	1
Macon (L)	6	3	8	7
NE3001	0	-3	1	-3
Apex (HC94-1065)	6	2	3	6
A99-315026	5	2	1	-1
A00-912026	3	-4	1	-1
A00-912029	1	-1	-1	-2
E98195	-1	0	-1	-4
E99132	1	-2	-1	1
E99178	0	-2	0	-2
E99246	-1	3	-0	2
E99248	1	2	0	2
E99279	1	-2	0	-1
HC97-245R	6	4	2	3
HC97-545	5	4	6	6
HC97-4358	6	5	3	7
HC98-303	5	3	4	5
HC98-1019	9	4	2	7
HC98-1025	5	4	3	6
K1514	6	4	8	9
LG97-7012	-1	-2	3	-3
LG98-1445	-1	-4	0	-6
U98-307162	3	0	3	1
U98-307917	4	0	3	3
U99-005032	-2	-1	1	-1
U99-035014	-1	-4	1	-5
U99-045080	-1	-3	-0	-4
U99-046063	0	-1	1	-1
Date Planted	6/2	6/1	5/3	5/1
Days to Mature	121	122	127	136

UNIFORM TEST III, 2002

LODGING (score)

Strain	Mean 20 Tests	Fayetteville* irrigated AR	Keiser* irrigated AR	Rohwer* irrigated AR	Ames IA	Carlisle IA	Richland IA
IA3010 (III)	1.2			1.0	2.0	2.0	1.5
IA2052 (II)	1.4			1.0	2.0	3.0	2.0
IA3014	1.5			1.0	2.8	3.0	2.3
Macon (L)	1.4			1.0	2.5	2.3	2.0
NE3001	1.2			1.0	2.0	2.0	1.3
Apex (HC94-1065)	1.1			1.0	2.0	1.5	1.5
A99-315026	1.2			1.0	2.0	2.0	1.5
A00-912026	1.3			1.0	2.3	2.5	2.0
A00-912029	1.4			1.0	2.0	2.8	1.8
E98195	1.2			1.0	2.0	2.3	1.3
E99132	1.3			1.0	2.3	2.0	1.5
E99178	1.2			1.0	2.3	2.0	1.5
E99246	1.2			1.0	2.0	2.0	1.5
E99248	1.2			1.0	2.0	1.8	1.5
E99279	1.4			1.0	2.3	2.5	1.8
HC97-245R	1.2			1.0	2.0	2.0	1.5
HC97-545	1.3			1.0	2.3	1.8	1.5
HC97-4358	1.2			1.0	2.0	1.5	1.5
HC98-303	1.2			1.0	2.3	2.3	1.3
HC98-1019	1.2			1.0	2.5	2.0	1.5
HC98-1025	1.2			1.0	2.0	1.8	1.5
K1514	1.5			1.0	2.5	2.0	2.0
LG97-7012	1.4			1.0	2.5	2.5	1.8
LG98-1445	1.5			1.0	2.5	3.0	2.0
U98-307162	1.3			1.0	2.0	2.3	1.8
U98-307917	1.4			1.0	2.3	2.8	2.0
U99-005032	1.2			1.0	2.3	2.0	1.8
U99-035014	1.6			1.0	2.8	2.5	2.3
U99-045080	1.3			1.0	2.3	2.3	2.0
U99-046063	1.1			1.0	2.0	1.8	1.5

* Data not included in mean.

UNIFORM TEST III, 2002

LODGING (score)

Strain	Newton IL	Urbana IL	Butlerville IN	Lafayette IN	Wanatah IN	Manahattan KS	Seneca KS
IA3010 (III)	1.0	1.0	1.0	1.0	1.0	1.0	1.0
IA2052 (II)	1.5	1.5	1.0	1.0	1.0	2.7	1.0
IA3014	1.8	1.5	1.0	1.0	1.0	2.0	1.0
Macon (L)	1.3	1.3	1.0	1.0	1.0	1.7	1.0
NE3001	1.0	1.2	1.0	1.0	1.0	1.0	1.0
Apex (HC94-1065)	1.2	1.0	1.0	1.0	1.0	1.0	1.0
A99-315026	1.0	1.5	1.0	1.0	1.0	1.0	1.0
A00-912026	1.2	1.3	1.0	1.0	1.0	1.7	1.0
A00-912029	1.2	1.2	1.0	1.0	1.0	1.7	1.0
E98195	1.2	1.0	1.0	1.0	1.0	1.3	1.0
E99132	1.5	1.0	1.0	1.0	1.0	1.7	1.0
E99178	1.2	1.2	1.0	1.0	1.0	1.0	1.0
E99246	1.7	1.0	1.0	1.0	1.0	1.3	1.0
E99248	1.0	1.3	1.0	1.0	1.0	1.3	1.0
E99279	1.5	2.0	1.0	1.0	1.0	2.3	1.0
HC97-245R	1.3	1.0	1.0	1.0	1.0	1.0	1.0
HC97-545	1.7	1.2	1.0	1.0	1.0	1.0	1.0
HC97-4358	1.2	1.0	1.0	1.0	1.0	1.0	1.0
HC98-303	1.2	1.0	1.0	1.0	1.0	1.0	1.0
HC98-1019	1.3	1.2	1.0	1.0	1.0	1.0	1.0
HC98-1025	1.3	1.0	1.0	1.0	1.0	1.0	1.0
K1514	2.2	1.5	1.0	1.2	1.0	2.0	1.0
LG97-7012	1.8	2.0	1.0	1.0	1.0	2.0	1.0
LG98-1445	2.0	1.7	1.0	1.0	1.0	2.7	1.0
U98-307162	1.5	1.5	1.0	1.0	1.0	1.7	1.0
U98-307917	1.7	1.2	1.0	1.0	1.0	1.7	1.0
U99-005032	1.2	1.0	1.0	1.0	1.0	1.0	1.0
U99-035014	2.5	1.7	1.0	1.3	1.0	3.3	1.0
U99-045080	1.5	1.0	1.0	1.0	1.0	1.3	1.0
U99-046063	1.0	1.0	1.0	1.0	1.0	1.0	1.0

UNIFORM TEST III, 2002

LODGING (score)

Strain	Queenstown MD	Kingdom City MO	Portageville (Clay) MO	Portageville (Loam) MO	Palmyra NE	Plymouth NE
IA3010 (III)	1.2	1.0	1.0	1.0	1.0	1.0
IA2052 (II)	1.3	1.0	1.0	1.0	1.0	1.0
IA3014	1.3	1.0	1.0	1.0	1.5	1.0
Macon (L)	1.5	1.0	1.0	1.0	1.0	1.0
NE3001	1.0	1.0	1.0	1.0	1.0	1.0
Apex (HC94-1065)	1.2	1.0	1.0	1.0	1.0	1.0
A99-315026	1.0	1.0	1.0	1.0	1.0	1.0
A00-912026	1.3	1.0	1.0	1.0	1.5	1.0
A00-912029	1.2	1.0	1.0	1.0	1.0	1.0
E98195	1.2	1.0	1.0	1.0	1.0	1.0
E99132	1.2	1.0	1.0	1.0	1.0	1.0
E99178	1.2	1.0	1.0	1.0	1.0	1.0
E99246	1.3	1.0	1.0	1.0	1.0	1.0
E99248	1.2	1.0	1.0	1.0	1.0	1.0
E99279	1.2	1.0	1.0	1.0	1.0	1.0
HC97-245R	1.0	1.0	1.0	1.0	1.0	1.0
HC97-545	1.7	1.0	1.0	1.0	2.0	1.0
HC97-4358	1.5	1.0	1.0	1.0	1.0	1.0
HC98-303	1.0	1.0	1.0	1.0	1.0	1.0
HC98-1019	1.8	1.0	1.0	1.0	1.0	1.0
HC98-1025	1.2	1.0	1.0	1.0	1.0	1.0
K1514	1.5	1.0	1.5	1.0	1.5	1.0
LG97-7012	1.2	1.0	1.0	1.0	1.0	1.0
LG98-1445	1.2	1.0	1.0	1.0	1.5	1.0
U98-307162	1.2	1.0	1.0	1.0	1.0	1.0
U98-307917	1.3	1.0	1.0	1.0	1.0	1.0
U99-005032	1.3	1.0	1.0	1.0	1.0	1.0
U99-035014	1.5	1.0	1.0	1.0	2.0	1.0
U99-045080	1.3	1.0	1.0	1.0	1.5	1.0
U99-046063	1.2	1.0	1.0	1.0	1.0	1.0

UNIFORM TEST III, 2002

LODGING (score)

Strain	Tekamah NE	Hoytville OH	Wooster OH	So. Charleston. OH
IA3010 (III)	1.0	1.3	1.2	1.0
IA2052 (II)	2.0	1.3	1.3	1.3
IA3014	1.5	1.5	1.2	2.0
Macon (L)	2.0	1.5	1.3	1.1
NE3001	1.5	1.4	1.3	1.1
Apex (HC94-1065)	1.0	1.2	1.2	1.0
A99-315026	1.5	1.3	1.2	1.1
A00-912026	1.0	1.3	1.3	1.4
A00-912029	2.0	1.3	1.3	1.9
E98195	1.0	1.3	1.2	1.0
E99132	1.5	1.3	1.2	1.0
E99178	1.0	1.3	1.3	1.0
E99246	1.0	1.3	1.2	1.0
E99248	1.0	1.4	1.2	1.0
E99279	1.5	1.2	1.2	1.2
HC97-245R	1.0	1.3	1.2	1.0
HC97-545	1.0	1.3	1.2	1.0
HC97-4358	1.0	1.3	1.2	1.0
HC98-303	1.0	1.3	1.3	1.0
HC98-1019	1.0	1.3	1.2	1.0
HC98-1025	1.0	1.3	1.3	1.0
K1514	2.0	1.4	1.3	1.4
LG97-7012	1.0	1.3	1.2	1.5
LG98-1445	2.0	1.3	1.3	1.3
U98-307162	2.0	1.3	1.2	1.4
U98-307917	2.0	1.3	1.2	1.1
U99-005032	1.5	1.3	1.3	1.0
U99-035014	1.0	1.4	1.2	1.5
U99-045080	1.0	1.3	1.2	1.1
U99-046063	1.0	1.3	1.2	1.0

UNIFORM TEST III, 2002

PLANT HEIGHT (inches)

Strain	Mean 20 Tests	Fayetteville* irrigated AR	Keiser* irrigated AR	Rohwer* irrigated AR	Ames IA	Carlisle IA	Richland IA
IA3010 (III)	26	25		17	31	34	29
IA2052 (II)	30	27		10	32	39	36
IA3014	31	24		18	30	40	33
Macon (L)	30	26		23	32	35	35
NE3001	21	19		14	20	29	20
Apex (HC94-1065)	20	15		9	21	26	24
A99-315026	28	25		15	31	37	31
A00-912026	30	27		16	34	41	35
A00-912029	30	28		17	34	41	35
E98195	26	26		15	30	37	24
E99132	27	25		15	30	32	33
E99178	24	25		14	25	29	24
E99246	26	20		13	32	38	28
E99248	30	26		17	38	39	33
E99279	31	24		16	36	43	32
HC97-245R	18	16		8	19	22	19
HC97-545	19	19		11	20	20	20
HC97-4358	21	18		13	21	28	23
HC98-303	18	16		11	17	22	18
HC98-1019	20	18		10	21	24	22
HC98-1025	19	22		10	18	21	18
K1514	32	27		21	34	37	37
LG97-7012	30	26		13	35	40	34
LG98-1445	30	26		14	37	39	36
U98-307162	27	26		16	31	34	29
U98-307917	29	26		16	30	34	35
U99-005032	28	26		15	33	38	30
U99-035014	31	28		15	36	38	35
U99-045080	28	26		13	36	35	32
U99-046063	28	29		15	31	34	33

* Data not included in mean.

UNIFORM TEST III, 2002

PLANT HEIGHT (inches)

Strain	Newton IL	Urbana IL	Butlerville IN	Lafayette IN	Wanatah IN	Manahattan KS	Seneca KS
IA3010 (III)	27	31	21	29	23	30	20
IA2052 (II)	36	37	25	37	28	33	25
IA3014	33	37	27	35	29	35	25
Macon (L)	32	34	27	36	28	35	23
NE3001	24	27	16	24	21	23	19
Apex (HC94-1065)	21	26	16	22	24	18	20
A99-315026	29	32	20	33	26	34	21
A00-912026	30	35	24	36	28	36	22
A00-912029	31	34	24	34	29	31	22
E98195	28	32	20	33	25	31	22
E99132	30	32	20	32	27	30	22
E99178	24	28	19	29	25	23	22
E99246	29	31	24	31	27	30	22
E99248	33	36	25	35	27	32	23
E99279	35	37	27	38	31	33	25
HC97-245R	21	24	15	17	23	17	17
HC97-545	21	24	15	20	22	17	21
HC97-4358	25	24	14	24	24	18	22
HC98-303	19	24	13	20	22	16	19
HC98-1019	21	26	15	21	23	18	21
HC98-1025	20	24	13	20	21	17	18
K1514	34	38	24	38	30	36	24
LG97-7012	32	33	20	34	29	35	27
LG98-1445	30	33	23	34	27	37	23
U98-307162	26	30	24	33	25	32	20
U98-307917	32	34	25	34	28	34	21
U99-005032	30	32	21	33	25	33	21
U99-035014	36	35	24	38	30	34	26
U99-045080	29	33	22	32	27	32	22
U99-046063	31	33	23	33	27	32	22

UNIFORM TEST III, 2002

PLANT HEIGHT (inches)

Strain	Queenstown MD	Kingdom City MO	Portageville (Clay) MO	Portageville (Loam) MO	Palmyra NE	Plymouth NE
IA3010 (III)	22	23	23	21	25	22
IA2052 (II)	25	24	24	23	34	26
IA3014	27	26	30	26	32	33
Macon (L)	25	25	29	29	31	28
NE3001	20	17	12	15	24	18
Apex (HC94-1065)	22	18	14	13	21	17
A99-315026	24	24	22	28	26	25
A00-912026	24	28	26	28	32	26
A00-912029	23	29	24	26	35	27
E98195	23	25	20	25	29	23
E99132	23	25	24	23	30	23
E99178	23	26	13	20	24	24
E99246	21	17	21	25	30	19
E99248	23	24	25	26	32	27
E99279	25	24	27	27	34	28
HC97-245R	20	11	12	13	19	14
HC97-545	22	13	15	16	22	16
HC97-4358	23	13	16	16	23	19
HC98-303	19	13	14	13	20	17
HC98-1019	24	13	14	16	23	18
HC98-1025	19	21	16	15	21	15
K1514	27	26	28	29	35	31
LG97-7012	26	23	24	23	33	27
LG98-1445	26	24	26	29	32	30
U98-307162	24	23	26	28	28	26
U98-307917	24	24	27	29	34	25
U99-005032	24	22	25	29	32	24
U99-035014	27	24	27	29	31	29
U99-045080	24	23	25	26	30	26
U99-046063	25	20	26	23	32	26

UNIFORM TEST III, 2002

PLANT HEIGHT (inches)

Strain	Tekamah NE	Hoytville OH	Wooster OH	So. Charleston, OH
IA3010 (III)	35	23	16	26
IA2052 (II)	42	28	23	27
IA3014	38	32	23	33
Macon (L)	37	28	22	33
NE3001	26	23	17	20
Apex (HC94-1065)	24	19	22	20
A99-315026	35	26	17	31
A00-912026	40	27	21	32
A00-912029	39	23	21	30
E98195	35	24	17	26
E99132	37	26	17	28
E99178	29	24	18	27
E99246	33	24	18	21
E99248	38	25	21	32
E99279	39	31	19	32
HC97-245R	21	15	20	17
HC97-545	22	18	23	22
HC97-4358	25	22	21	21
HC98-303	21	17	19	19
HC98-1019	25	20	22	19
HC98-1025	22	19	18	21
K1514	39	28	22	34
LG97-7012	40	28	22	31
LG98-1445	37	24	22	31
U98-307162	32	22	17	30
U98-307917	39	24	19	31
U99-005032	36	23	19	27
U99-035014	40	29	23	30
U99-045080	36	25	19	29
U99-046063	35	25	18	30

UNIFORM TEST III, 2002

SEED SIZE (g/100)

Strain	Mean 20 Tests	Fayetteville* irrigated AR	Keiser* irrigated AR	Rohwer* irrigated AR	Ames IA	Carlisle IA	Richland IA
IA3010 (III)	14.9	12.1	14.5	13.0	17.8	14.7	17.3
IA2052 (II)	14.8	13.6	14.3	15.0	15.1	14.9	16.4
IA3014	14.4	14.5	12.9	13.2	17.1	13.2	15.7
Macon (L)	16.6	14.3	14.6	16.8	20.3	16.2	18.9
NE3001	17.3	14.7	15.8	16.1	18.7	18.6	20.1
Apex (HC94-1065)	15.2	12.7	14.8	14.3	17.2	15.0	17.0
A99-315026	15.5	13.5	16.0	16.1	17.0	15.2	18.1
A00-912026	14.0	10.4	13.6	13.2	16.7	14.2	16.3
A00-912029	13.8	12.2	13.1	13.1	16.3	13.8	16.3
E98195	16.7	14.8	15.6	14.5	18.1	16.9	16.1
E99132	14.3	11.3	13.2	13.1	17.2	13.1	16.9
E99178	17.0	16.3	16.6	17.8	19.2	15.9	19.0
E99246	17.6	14.4	17.0	17.7	20.7	18.6	20.1
E99248	15.8	13.8	14.9	14.1	17.9	17.1	17.4
E99279	16.5	14.2	15.4	14.4	18.7	17.5	18.0
HC97-245R	17.4	16.4	16.3	16.8	19.2	16.2	20.3
HC97-545	15.9	13.3	13.6	14.1	18.6	16.1	18.9
HC97-4358	17.3	12.5	13.8	19.4	19.8	16.4	19.6
HC98-303	15.7	12.3	13.9	16.1	17.4	16.3	17.9
HC98-1019	16.1	13.4	14.8	15.9	19.6	16.8	19.1
HC98-1025	15.0	12.4	14.7	14.0	17.2	14.9	17.3
K1514	15.5	14.4	13.3	14.1	19.4	16.5	18.0
LG97-7012	17.5	14.6	16.1	16.3	18.5	16.9	20.2
LG98-1445	15.1	12.8	13.9	14.6	17.2	14.3	17.4
U98-307162	14.8	12.1	13.2	11.1	17.8	14.6	15.9
U98-307917	14.7	12.6	15.7	15.1	17.6	14.7	16.8
U99-005032	14.4	12.7	15.0	11.0	16.4	14.5	15.5
U99-035014	16.6	15.1	15.8	15.8	18.4	17.1	18.5
U99-045080	15.7	14.2	15.1	15.0	19.1	15.3	18.3
U99-046063	16.4	14.5	14.8	16.0	17.1	15.8	18.3

* Data not included in mean.

UNIFORM TEST III, 2002

SEED SIZE (g/100)

Strain	Newton IL	Urbana IL	Butlerville IN	Lafayette IN	Wanatah IN	Manahattan KS	Seneca KS
IA3010 (III)	13.1	17.7	13.2	14.9	13.1	17.7	12.6
IA2052 (II)	15.2	17.2	14.8	16.6	14.4	13.9	11.9
IA3014	13.5	18.7	12.4	15.7	13.4	15.0	13.0
Macon (L)	14.8	20.6	13.8	17.6	14.0	17.7	13.8
NE3001	18.1	20.7	15.3	17.6	16.5	19.8	13.0
Apex (HC94-1065)	15.6	19.0	13.0	15.8	13.1	18.5	13.6
A99-315026	14.1	18.5	12.7	16.8	14.3	14.5	12.1
A00-912026	12.7	15.9	11.2	14.3	13.0	14.8	12.4
A00-912029	12.5	14.8	11.2	13.9	13.0	15.6	11.9
E98195	16.7	19.5	15.9	18.7	15.7	19.0	16.0
E99132	12.7	16.8	12.2	14.3	12.6	16.1	12.4
E99178	16.0	19.4	15.9	17.5	14.3	17.6	14.6
E99246	17.6	21.1	18.1	19.7	16.3	17.2	16.0
E99248	15.0	18.4	13.9	16.5	14.5	15.6	13.4
E99279	15.2	19.1	14.9	17.7	16.3	17.6	16.1
HC97-245R	17.2	21.1	14.8	18.5	13.7	16.6	14.9
HC97-545	14.4	19.7	13.3	17.2	13.4	16.6	14.7
HC97-4358	15.6	21.4	15.3	18.7	13.9	18.0	14.8
HC98-303	14.6	19.7	13.7	16.2	12.6	17.9	14.9
HC98-1019	14.3	19.3	14.6	17.8	11.3	17.1	13.0
HC98-1025	13.8	17.4	13.2	16.1	12.4	16.6	13.0
K1514	13.7	18.1	12.9	16.8	12.8	15.2	12.9
LG97-7012	18.3	20.5	16.5	19.8	16.1	14.8	15.5
LG98-1445	15.4	17.2	15.8	16.3	15.2	15.3	11.4
U98-307162	13.6	18.0	13.4	15.7	13.9	16.4	12.9
U98-307917	13.0	17.8	12.1	14.7	14.1	16.5	13.6
U99-005032	12.7	16.8	12.4	15.0	13.9	15.7	13.4
U99-035014	15.8	19.7	15.4	18.6	15.9	17.6	14.2
U99-045080	13.5	18.7	14.3	16.1	14.5	18.4	13.9
U99-046063	16.0	19.9	14.4	17.7	15.6	15.9	15.1

UNIFORM TEST III, 2002

SEED SIZE (g/100)

Strain	Queenstown MD	Kingdom City MO	Portageville (Clay) MO	Portageville (Loam) MO	Palmyra NE	Plymouth NE
IA3010 (III)	10.3	17.0	14.7	14.1	17.5	17.1
IA2052 (II)	10.6	16.0	15.6	12.7	18.1	15.9
IA3014	9.8	15.0	15.4	12.7	16.8	14.5
Macon (L)	12.2	18.0	18.6	16.5	18.2	18.6
NE3001	12.2	19.0	17.6	14.2	21.3	18.5
Apex (HC94-1065)	9.6	16.0	16.8	13.6	18.1	14.6
A99-315026	10.5	19.0	17.4	14.8	19.6	17.3
A00-912026	10.1	16.0	14.6	13.8	15.9	15.2
A00-912029	9.9	16.0	13.8	13.4	15.8	14.3
E98195	11.8	17.0	16.6	15.9	21.2	19.2
E99132	9.3	17.0	14.8	12.9	17.5	16.5
E99178	11.3	20.0	16.8	16.0	21.0	19.1
E99246	11.2	19.0	17.2	14.6	20.8	19.5
E99248	11.3	16.0	16.5	15.4	19.1	17.8
E99279	11.5	17.0	15.4	14.8	19.2	18.9
HC97-245R	13.5	20.0	17.0	16.9	19.7	20.1
HC97-545	11.6	18.0	14.6	14.6	18.5	17.0
HC97-4358	12.1	19.0	18.2	17.6	20.0	19.5
HC98-303	10.0	17.0	15.2	14.7	18.3	17.2
HC98-1019	9.8	19.0	15.2	15.1	18.1	17.3
HC98-1025	9.8	18.0	15.1	14.3	18.0	16.0
K1514	11.6	18.0	15.7	14.8	17.3	17.2
LG97-7012	12.2	19.0	18.4	16.7	19.7	17.5
LG98-1445	9.4	17.0	14.4	13.9	17.9	15.3
U98-307162	10.1	15.0	14.3	13.7	17.3	16.3
U98-307917	10.5	13.0	15.3	14.3	17.8	16.3
U99-005032	10.5	17.0	14.5	14.1	17.2	15.7
U99-035014	11.0	18.0	17.4	14.6	19.6	16.8
U99-045080	10.9	15.0	17.4	15.8	18.1	17.2
U99-046063	10.7	18.0	17.3	15.8	19.1	17.6

UNIFORM TEST III, 2002

SEED SIZE (g/100)

Strain	Tekamah NE	Hoytville OH	Wooster OH	So. Charleston. OH
IA3010 (III)	15.3	13.2	13.9	13.8
IA2052 (II)	15.6	14.1	13.4	13.8
IA3014	15.5	13.0	14.2	13.5
Macon (L)	17.8	14.6	13.6	16.1
NE3001	16.4	16.3	17.6	15.4
Apex (HC94-1065)	14.1	13.6	14.2	15.7
A99-315026	15.9	14.7	13.7	14.2
A00-912026	13.9	12.0	13.6	13.5
A00-912029	15.5	11.2	12.6	13.6
E98195	16.0	13.6	16.3	14.5
E99132	14.6	13.9	12.2	13.9
E99178	17.6	16.7	15.4	16.4
E99246	18.8	14.2	15.7	15.9
E99248	17.5	13.1	14.6	15.1
E99279	15.5	15.9	14.9	15.6
HC97-245R	17.3	16.0	17.1	17.2
HC97-545	16.4	14.4	15.2	15.3
HC97-4358	18.3	13.2	16.5	18.8
HC98-303	15.3	14.3	14.3	16.1
HC98-1019	15.0	14.4	20.5	15.5
HC98-1025	13.9	14.3	13.7	15.0
K1514	16.4	11.9	15.3	14.8
LG97-7012	19.3	16.4	16.8	17.6
LG98-1445	16.0	13.9	14.1	14.1
U98-307162	15.5	13.1	14.4	14.0
U98-307917	15.4	12.6	13.5	14.5
U99-005032	13.8	12.2	13.6	13.6
U99-035014	16.8	15.0	15.5	16.0
U99-045080	15.1	12.8	14.9	14.5
U99-046063	16.4	15.8	15.5	15.5

UNIFORM TEST III, 2002

SEED QUALITY (score)

Strain	Mean 14 Tests	Fayetteville* irrigated AR	Keiser* irrigated AR	Rohwer* irrigated AR	Ames IA	Carlisle IA	Richland IA
IA3010 (III)	2.4	2.5	2.2	2.8			
IA2052 (II)	2.3	3.3	3.0	3.2			
IA3014	2.1	3.5	2.2	3.0			
Macon (L)	2.0	3.0	2.0	3.0			
NE3001	2.6	3.3	2.5	3.5			
Apex (HC94-1065)	2.4	4.0	2.5	3.0			
A99-315026	1.9	2.8	2.2	3.0			
A00-912026	2.4	3.5	2.3	3.2			
A00-912029	2.5	3.0	2.3	3.5			
E98195	2.3	4.3	3.3	3.3			
E99132	2.3	2.8	1.8	3.5			
E99178	2.3	3.8	3.3	3.7			
E99246	2.6	3.3	2.5	3.0			
E99248	2.8	3.8	3.0	4.0			
E99279	2.5	3.5	2.8	3.5			
HC97-245R	1.9	4.3	3.3	4.0			
HC97-545	1.8	3.5	1.8	3.3			
HC97-4358	2.5	4.3	2.5	3.3			
HC98-303	1.8	3.0	1.5	3.0			
HC98-1019	2.0	3.5	2.3	3.5			
HC98-1025	2.0	3.3	2.3	2.5			
K1514	2.3	4.3	2.2	3.3			
LG97-7012	2.4	2.8	2.8	3.5			
LG98-1445	2.3	4.0	2.8	3.7			
U98-307162	2.1	3.3	2.0	3.3			
U98-307917	2.0	3.7	2.5	4.0			
U99-005032	2.0	2.3	2.5	2.7			
U99-035014	2.4	3.7	2.0	2.7			
U99-045080	1.9	2.8	2.0	2.5			
U99-046063	2.1	3.0	2.0	3.3			

* Data not included in mean.

UNIFORM TEST III, 2002

SEED QUALITY (score)

Strain	Newton IL	Urbana IL	Butlerville IN	Lafayette IN	Wanatah IN	Manahattan KS	Seneca KS
IA3010 (III)	2.0	2.0	1.0	1.0	1.5	4.0	4.0
IA2052 (II)	2.0	2.0	1.5	1.0	1.5	3.0	3.0
IA3014	1.5	2.0	1.0	1.0	1.5	4.0	2.0
Macon (L)	1.5	2.5	1.0	1.0	2.0	3.0	2.0
NE3001	3.0	2.0	2.5	1.0	1.0	5.0	4.0
Apex (HC94-1065)	1.5	1.5	2.0	1.0	1.5	4.0	3.0
A99-315026	1.5	1.5	1.0	1.0	1.5	4.0	2.0
A00-912026	1.5	2.0	1.0	1.0	1.0	4.0	4.0
A00-912029	2.0	2.0	1.5	1.0	1.0	5.0	4.0
E98195	2.0	2.5	1.5	1.5	1.0	3.0	3.0
E99132	1.5	2.0	1.0	1.0	1.0	3.0	4.0
E99178	1.5	2.0	1.5	1.0	1.5	4.0	3.0
E99246	2.5	2.5	2.0	1.0	1.5	5.0	3.0
E99248	2.5	2.5	2.0	1.0	1.5	4.0	4.0
E99279	2.5	2.5	1.5	1.0	1.5	4.0	4.0
HC97-245R	2.0	1.5	1.0	1.0	1.5	3.0	3.0
HC97-545	2.0	1.5	1.0	1.0	1.0	3.0	2.0
HC97-4358	2.0	2.0	2.0	1.0	2.5	2.0	3.0
HC98-303	1.5	1.5	1.0	1.0	1.5	2.0	3.0
HC98-1019	1.5	1.5	1.0	1.0	1.5	3.0	3.0
HC98-1025	2.0	1.0	1.0	1.0	1.0	3.0	2.0
K1514	2.0	2.0	1.0	1.0	1.5	4.0	3.0
LG97-7012	2.5	2.0	1.0	1.0	1.0	5.0	2.0
LG98-1445	2.5	1.5	1.0	1.5	1.0	3.0	2.0
U98-307162	2.0	2.0	1.0	1.0	1.5	3.0	3.0
U98-307917	1.5	2.0	1.5	1.0	1.5	3.0	3.0
U99-005032	1.5	2.0	1.0	1.0	1.0	4.0	3.0
U99-035014	2.5	2.5	1.5	1.5	1.5	4.0	3.0
U99-045080	1.5	2.0	1.0	1.0	1.0	3.0	3.0
U99-046063	2.0	2.0	1.5	1.0	1.0	4.0	2.0

UNIFORM TEST III, 2002

SEED QUALITY (score)

Strain	Queenstown MD	Kingdom City MO	Portageville (Clay) MO	Portageville (Loam) MO	Palmyra NE	Plymouth NE
IA3010 (III)	1.3	2.0	5.0	3.0		
IA2052 (II)	1.3	2.0	5.0	5.0		
IA3014	1.7	2.0	4.0	2.0		
Macon (L)	1.5	2.0	3.0	3.0		
NE3001	2.3	2.0	4.0	4.0		
Apex (HC94-1065)	2.2	2.0	5.0	4.0		
A99-315026	1.3	2.0	3.0	3.0		
A00-912026	2.2	2.0	5.0	4.0		
A00-912029	2.0	2.0	4.0	3.0		
E98195	2.2	2.0	4.0	3.0		
E99132	2.2	2.0	4.0	4.0		
E99178	2.2	3.0	3.0	3.0		
E99246	1.7	2.0	4.0	4.0		
E99248	2.2	4.0	4.0	4.0		
E99279	2.0	5.0	3.0	3.0		
HC97-245R	1.7	2.0	2.0	2.0		
HC97-545	1.7	2.0	2.0	2.0		
HC97-4358	2.5	2.0	4.0	4.0		
HC98-303	1.7	2.0	2.0	2.0		
HC98-1019	2.0	2.0	3.0	2.0		
HC98-1025	1.7	2.0	3.0	3.0		
K1514	2.0	2.0	3.0	3.0		
LG97-7012	1.8	2.0	4.0	5.0		
LG98-1445	1.7	2.0	5.0	5.0		
U98-307162	1.7	2.0	3.0	3.0		
U98-307917	1.5	2.0	3.0	2.0		
U99-005032	1.2	2.0	3.0	3.0		
U99-035014	1.2	3.0	4.0	3.0		
U99-045080	1.3	3.0	2.0	2.0		
U99-046063	1.2	2.0	4.0	3.0		

UNIFORM TEST III, 2002

SEED QUALITY (score)

Strain	Tekamah NE	Hoytville OH	Wooster OH	So. Charleston. OH
IA3010 (III)		1.8	2.5	1.8
IA2052 (II)		1.5	2.5	1.5
IA3014		2.2	2.8	1.5
Macon (L)		1.9	2.5	1.5
NE3001		1.8	2.5	1.5
Apex (HC94-1065)		2.5	2.5	1.5
A99-315026		1.5	2.4	1.5
A00-912026		1.6	2.6	1.5
A00-912029		3.8	2.6	1.5
E98195		2.7	2.8	1.5
E99132		1.8	2.5	1.5
E99178		1.9	2.4	1.5
E99246		3.1	2.7	1.5
E99248		3.8	2.8	1.5
E99279		1.7	2.4	1.5
HC97-245R		1.8	2.2	1.5
HC97-545		2.3	1.8	1.5
HC97-4358		3.3	2.5	1.5
HC98-303		1.8	2.4	1.5
HC98-1019		2.9	2.2	1.5
HC98-1025		2.9	2.6	1.5
K1514		3.3	2.5	1.5
LG97-7012		2.0	2.3	1.5
LG98-1445		1.9	2.3	1.5
U98-307162		1.7	2.6	1.5
U98-307917		1.7	2.3	1.5
U99-005032		1.4	2.4	1.5
U99-035014		1.6	2.2	1.5
U99-045080		1.8	2.6	1.5
U99-046063		1.8	2.2	1.5

UNIFORM TEST III, 2002

GREEN STEM (score)

Strain	Mean 3 Tests	Kingdom City MO	Palmyra NE	Wooster OH
IA3010 (III)	2.2	1.0	1.0	4.7
IA2052 (II)	3.0	1.0	4.0	4.9
IA3014	2.7	1.0	2.0	5.0
Macon (L)	2.6	1.0	2.0	4.9
NE3001	3.3	1.0	4.0	5.0
Apex (HC94-1065)	2.9	1.0	3.0	4.8
A99-315026	2.8	1.0	3.0	4.4
A00-912026	2.8	1.0	3.0	4.4
A00-912029	2.7	1.0	2.0	5.1
E98195	2.5	1.0	2.0	4.6
E99132	2.7	1.0	3.0	4.1
E99178	3.4	3.0	3.0	4.1
E99246	3.5	1.0	4.0	5.6
E99248	3.9	5.0	2.0	4.6
E99279	2.5	1.0	2.0	4.6
HC97-245R	3.2	1.0	3.0	5.6
HC97-545	2.6	1.0	2.0	4.9
HC97-4358	2.9	1.0	3.0	4.6
HC98-303	3.4	1.0	4.0	5.1
HC98-1019	2.3	1.0	1.0	4.9
HC98-1025	4.0	5.0	2.0	5.1
K1514	2.5	1.0	2.0	4.6
LG97-7012	2.6	2.0	1.0	4.7
LG98-1445	2.7	2.0	2.0	4.2
U98-307162	2.7	1.0	2.0	5.0
U98-307917	2.7	1.0	2.0	5.1
U99-005032	2.3	1.0	1.0	4.9
U99-035014	3.8	3.0	4.0	4.4
U99-045080	2.5	1.0	2.0	4.6
U99-046063	3.3	2.0	4.0	3.9

UNIFORM TEST III, 2002

PROTEIN (%)

Strain	Mean 5 Tests	Ames IA	Newton IL	Lafayette IN	Plymouth NE	Hoytville OH
IA3010 (III)	40.8	40.3	41.9	39.9	37.9	43.8
IA2052 (II)	40.8	42.2	43.6	41.4	41.0	35.6
IA3014	39.8	41.0	40.9	41.1	39.3	36.8
Macon (L)	41.5	42.1	43.7	42.6	41.3	37.6
NE3001	40.8	40.5	43.7	41.3	41.9	36.7
Apex (HC94-1065)	39.1	39.5	40.8	39.3	39.1	36.5
A99-315026	39.7	40.2	40.2	40.1	39.8	37.9
A00-912026	40.9	42.3	44.2	42.8	40.0	35.3
A00-912029	41.7	43.3	45.4	41.9	41.0	37.0
E98195	40.6	39.9	41.5	40.7	39.9	41.0
E99132	40.2	40.0	42.3	40.7	40.2	37.6
E99178	40.8	39.8	43.4	40.0	43.2	37.6
E99246	40.9	41.2	42.1	42.2	40.6	38.3
E99248	40.5	40.2	42.3	41.1	41.1	37.7
E99279	41.0	40.8	43.0	40.9	42.0	38.4
HC97-245R	41.8	41.6	43.9	42.2	43.6	37.9
HC97-545	40.3	39.8	41.3	41.3	40.6	38.5
HC97-4358	41.3	42.3	44.1	41.8	41.9	36.3
HC98-303	40.1	39.0	41.7	39.0	40.5	40.3
HC98-1019	40.0	40.9	41.6	40.8	40.0	36.9
HC98-1025	39.3	39.4	40.5	40.8	40.0	35.9
K1514	40.1	41.3	42.1	40.4	39.5	37.4
LG97-7012	40.9	38.0	43.8	41.7	41.0	39.9
LG98-1445	40.1	40.5	42.3	40.8	38.9	38.0
U98-307162	39.1	39.4	42.7	40.2	38.1	34.9
U98-307917	41.6	42.0	40.7	41.7	45.5	38.2
U99-005032	40.8	41.7	43.0	41.3	39.8	38.2
U99-035014	40.7	41.8	42.3	41.4	41.0	36.8
U99-045080	40.3	41.7	42.3	41.8	40.0	35.7
U99-046063	40.4	39.7	39.9	40.9	41.8	39.8

UNIFORM TEST III, 2002

OIL (%)

Strain	Mean 5 Tests	Ames IA	Newton IL	Lafayette IN	Plymouth NE	Hoytville OH
IA3010 (III)	18.9	18.1	20.1	19.2	20.0	17.3
IA2052 (II)	19.2	19.2	20.6	18.3	18.8	19.2
IA3014	20.1	19.5	19.3	19.4	21.6	20.5
Macon (L)	19.5	18.5	19.9	18.6	20.9	19.6
NE3001	19.9	19.4	20.1	20.6	19.8	19.6
Apex (HC94-1065)	20.6	20.4	20.6	19.6	21.1	21.2
A99-315026	19.6	19.3	20.3	19.3	20.2	19.0
A00-912026	18.9	17.9	19.2	18.1	19.5	19.8
A00-912029	18.3	17.7	19.1	17.4	19.0	18.4
E98195	18.9	18.9	19.1	18.8	19.7	18.0
E99132	19.6	19.8	20.4	19.6	20.2	17.8
E99178	20.7	21.4	21.8	20.5	20.1	19.6
E99246	20.7	20.2	21.3	21.2	20.2	20.6
E99248	19.6	18.6	19.7	19.2	19.7	20.7
E99279	19.0	18.5	19.7	18.8	18.9	19.4
HC97-245R	19.7	19.2	20.6	19.0	20.2	19.3
HC97-545	19.8	19.3	20.3	19.3	20.8	19.6
HC97-4358	19.1	19.4	19.3	18.1	19.1	19.3
HC98-303	20.0	20.1	20.4	19.8	20.4	19.3
HC98-1019	20.0	20.1	20.8	19.1	20.0	19.9
HC98-1025	19.7	18.3	20.7	19.2	20.2	20.1
K1514	19.7	19.1	19.8	19.5	21.0	19.3
LG97-7012	19.4	20.8	19.5	18.7	19.7	18.3
LG98-1445	20.8	20.4	22.2	20.2	22.1	19.0
U98-307162	19.6	18.7	19.3	17.5	21.1	21.6
U98-307917	19.4	19.0	20.3	19.2	19.5	18.8
U99-005032	19.9	18.9	20.9	19.5	20.5	19.6
U99-035014	19.8	19.1	21.1	18.4	21.0	19.4
U99-045080	20.8	19.6	22.4	20.1	21.8	20.3
U99-046063	20.1	18.8	22.2	20.4	20.3	18.5

Ent.	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.	A01-512021	Pioneer 9321 x IA1009	F4	SCN
6.	A01-512036	U94-2306 x IA1009	F4	SCN
7.	A01-611005	A97-874007 x IA1009	F4	SCN
8.	A01-611010	A97-874063 x Pioneer 9306	F4	
9.	A01-611037	A97-874014 x A96-492058	F4	
10.	A01-612003	A97-974011 x Northup King S28-T30	F4	
11.	A01-612009	A97-874014 x Pioneer 9321	F4	
12.	A01-612011	A97-874014 x Pioneer 9321	F4	
13.	A01-612013	A97-874014 x Pioneer 9321	F4	
14.	A01-612016	A97-874014 x Pioneer 9321	F4	
15.	A01-612018	A97-874014 x Pioneer 9321	F4	
16.	A01-612032	IA1008 x Northup King S28-T30	F4	SCN
17.	A01-612038	IA1008 x Northup King S28-T30	F4	SCN
18.	A01-612041	IA1008 x Northup King S28-T30	F4	SCN
19.	A01-612043	IA1008 x Pioneer 9321	F4	SCN
20.	C2026	HS93-4118 x A93-552028	F5	
21.	C2028	HS93-4118 x A93-552028	F5	
22.	C2029	HS93-4118 x C1926	F5	
23.	C2031	HS93-4118 x C1926	F5	
24.	C2032	HS93-4118 x C1942	F5	
25.	C2033	HS93-4118 x CX1517-198	F5	Rps1c
26.	HF00-092	U93-3122 x HM9196	F5	Rps1c
27.	HF00-137	Flint x Iroquois	F5	
28.	HF00-196	PI 567.590A x Flint	F5	
29.	K1547	BP: Macon, IA3010, A94-774016	F5	
30.	K1548	Pioneer P9341 x Northrup King S46-44	F5	
31.	K1549	BP, Parents: IA1006, Stressland, NK S42-60	F5	
32.	K1560	BP: Pioneer P9341, A93-754028, IA3010	F5	
33.	K1561	BP: CX411, A93-754028, LN89-3619, Delsoy 5500	F5	
34.	K1562	BP: IA1006, CX411, LS92-3660	F5	
35.	K1563	BP: Macon, IA3010, A94-774016	F5	
36.	K1564	BP: Ky90-1208, LN89-3619, LN91-1733, LS92-3660	F5	
37.	LDX98152-32	Dwight x LN92-7369	F5	MR to SCN Race 3
38.	LDX98154-8	Loda x Dwight	F5	MR to SCN Race 3
39.	LDX98160-20	LN95-6353 x Dwight	F5	MR to SCN Race 3
40.	LG98-1454	LG91-7431 x 9273	F6	
41.	LG00-2482	LG95-441-4 x IA2022	F6	
42.	LG00-2485	LG95-441-4 x IA2022	F6	
43.	LG00-3051	LG94-1128 x Savoy	F5	
44.	LG00-3145	LG93-7654 x LG92-1255	F5	
45.	LG99-5106	LG91-7320 x Kenwood	F6	
46.	LS99-2510	U93-3116 x A92-726004	F6	SCN
47.	LS99-2516	U93-3116 x A92-726004	F6	SCN
48.	LS99-3107	U93-3116 x Pioneer P9451	F6	SCN
49.	LS99-3149	A92-726004 x Ky90-1208	F6	SCN
50.	UX1347-5	NE3001 x U96-3640	F5	determinate, Y-hilum

PRELIMINARY TEST IIIA, 2002

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	Chlorosis Score Humboldt IA	Shattering Score Manhattan KS	Shattering Score Kingdom City MO	PR Lafayette Race 4	PR Lafayette Race 7	Hard Seed %	PS Lafayette a %	P&SB Lafayette n %
IA3010 (III)	PTTDYGrI	1.9	2.0	1.0	S	R	14	12	10
IA2052 (II)	WGBIYBfI	2.5	2.0	5.0	S	S	4	22	2
IA3014 (SCN)	WTTDYBlI	2.3	2.0	1.0	S	R	6	8	2
Macon (L)	WTBIYBlI	3.0	1.0	1.0	S	S	12	16	2
A01-512021	PGBIYBf+YI	2.6	1.0	4.0	S	S	6	2	0
A01-512036	WGBDYYI	2.5	2.0	5.0	S	S	0	8	0
A01-611005	WGBDYYI	1.8	1.0	4.0	S	S	10	26	2
A01-611010	PGSDYBfI	1.9	2.0	5.0	S	S	10	18	2
A01-611037	PSBDYYI	2.4	2.0	1.0	S	S	0	8	2
A01-612003	PGBDYYI	2.0	4.0	3.0	S	S	0	20	2
A01-612009	PLtDYYI	1.9	3.0	3.0	S	S	0	18	2
A01-612011	PGBIYYI	1.9	2.0	5.0	S	S	0	14	0
A01-612013	PGBDYHI	1.8	2.0	5.0	S	S	6	8	4
A01-612016	PGBIYYI	2.6	1.0	2.0	S	S	0	16	0
A01-612018	PGTIYBfI	2.0	1.0	5.0	S	S	2	4	0
A01-612032	PTBDYYI	1.9	3.0	1.0	S	R	0	22	0
A01-612038	PGBDYYI	2.3	2.0	2.0	H	R	0	30	6
A01-612041	P+WGTDYYI	2.1	2.0	1.0	S	S	6	14	0
A01-612043	WLtBDYYI	2.1	2.0	3.0	S	S	0	14	0
C2026	PLtTDYIbI	2.0	1.0	1.0	S	R	0	28	0
C2028	PLtSDYIbI	1.9	1.0	1.0	S	R	2	26	0
C2029	WLtTDYBrI	2.8	1.0	2.0	S	R	0	6	2
C2031	WGTIYBfI	2.3	1.0	1.0	R	R	4	34	0
C2032	WTTDYBlI	2.9	2.0	3.0	S	H	0	8	0
C2033	P+WTBDYBlI	3.0	1.0	1.0	S	S	4	4	2
HF00-092	PTTDYBrI	2.9	2.0	1.0	H	H	6	22	0
HF00-137	PGBDYIbI	2.9	1.0	1.0	S	S	4	14	0
HF00-196	PTBIYBlI	2.0	2.0	1.0	S	S	16	6	2
K1547	WGBDYBfI	1.9	2.0	1.0	S	R	0	24	6
K1548	WTBIYBlI	2.8	2.0	1.0	S	R	4	2	0
K1549	WTTDYBlI	1.9	2.0	1.0	H	R	0	22	0
K1560	PTBDYBrI	2.0	1.0	1.0	S	S	4	14	6
K1561	WGTDYBfI	1.6	1.0	1.0	S	S	0	30	2
K1562	WTTDYBlI	2.5	1.0	1.0	S	R	0	38	2
K1563	WGBDYBfI	1.9	3.0	2.0	S	S	0	16	2
K1564	PTTDYBrI	2.5	3.0	1.0	S	S	0	8	2
LDX98152-32	PTTDYLblI	2.1	2.0	1.0	R	H	2	12	0
LDX98154-8	PGBDYGrI	1.9	2.0	1.0	R	H	4	12	6
LDX98160-20	PGBDYIbI	2.4	3.0	1.0	S	S	0	26	0
LG98-1454	PTBDYBlI	2.3	1.0	1.0	S	S	6	6	2
LG00-2482	PTTIYBlI	1.8	1.0	1.0	S	S	0	10	2
LG00-2485	PTTDYBlI	2.5	2.0	1.0	S	S	34	4	2
LG00-3051	PGBDYIbI	2.0	2.0	1.0	H	R	0	16	0
LG00-3145	PTSDYHI	4.0	2.0	2.0	S	S	0	10	4
LG99-5106	PTBDYIbI	2.0	1.0	1.0	S	S	0	12	4
LS99-2510	PTBDYIbI	2.6	2.0	5.0	S	S	0	6	0
LS99-2516	P+WTTDYIbI	2.3	2.0	1.0	S	S	0	2	2
LS99-3107	WTBIYBlI	2.9	2.0	2.0	S	S	0	2	4
LS99-3149	WTTIYBrI	3.0	2.0	1.0	S	S	2	18	4
UX1347-5	WGBSYYD	2.9	1.0	2.0	S	S	0	4	6

PRELIMINARY TEST IIIA, 2002

REGIONAL SUMMARY

No. of Tests Strain	Yield 10 bu/a	Rank 10 No.	Maturity 9 Date	Lodging 10 Score	Plant Height 10 In.	Seed Size 10 g/100	Seed Quality 6 Score	Green Stem 2 Score	Composition Protein 5 %	 Oil 5 %
IA3010 (III)	60.9	3	9/23	1.2	27	15.9	2.0	1.5	38.5	19.2
IA2052 (II)	51.5	44	-6.0	1.6	33	15.4	1.8	3.5	40.3	19.6
IA3014 (SCN)	56.6	16	1.1	1.8	34	15.7	1.9	2.5	39.6	20.3
Macon (L)	56.6	16	5.1	1.4	33	18.3	1.9	3.0	40.6	19.3
A01-512021	50.1	47	-3.9	2.1	31	15.8	2.1	1.5	40.6	19.1
A01-512036	49.2	49	-4.8	2.5	35	15.8	2.2	2.0	40.3	19.8
A01-611005	44.3	50	-0.5	2.7	34	19.2	2.6	2.0	42.5	18.7
A01-611010	51.9	40	-2.0	1.4	30	17.8	2.0	3.0	41.3	20.4
A01-611037	52.4	37	5.2	1.7	31	21.7	2.3	2.5	43.0	18.2
A01-612003	52.7	34	3.2	1.8	34	17.9	1.9	1.5	42.9	18.2
A01-612009	52.3	38	2.4	2.2	33	19.0	2.2	1.5	43.8	18.1
A01-612011	51.2	45	-0.5	2.4	31	18.4	2.2	1.5	43.4	17.9
A01-612013	52.2	39	-0.4	1.6	30	19.8	2.2	2.5	42.8	18.1
A01-612016	50.5	46	5.0	2.4	34	17.8	2.0	2.0	42.8	17.7
A01-612018	51.7	41	2.8	2.3	30	18.7	2.0	2.0	41.8	18.0
A01-612032	55.7	21	2.7	1.5	32	16.4	1.9	1.5	40.5	19.4
A01-612038	55.4	25	-0.6	2.2	36	17.5	1.8	2.0	40.2	19.7
A01-612041	52.5	36	0.1	2.1	35	18.1	2.6	2.5	40.1	20.1
A01-612043	56.8	15	4.2	2.0	37	16.3	2.1	2.0	40.7	18.3
C2026	57.0	14	2.0	1.9	35	16.0	1.9	1.5	39.5	19.4
C2028	55.3	26	2.9	1.9	32	16.4	2.1	2.0	40.7	19.3
C2029	57.1	12	3.8	2.0	36	16.2	2.0	1.5	39.7	19.4
C2031	53.7	30	0.6	1.9	35	15.7	1.9	1.5	39.0	19.5
C2032	51.6	42	2.0	1.9	32	16.2	2.0	3.5	46.0	17.6
C2033	49.9	48	2.0	1.9	33	16.2	2.0	2.0	46.1	17.7
HF00-092	56.3	19	-1.5	1.4	30	14.6	1.9	2.5	40.5	19.7
HF00-137	55.6	22	10.5	2.2	36	16.4	2.0	3.5	40.3	19.4
HF00-196	57.2	11	10.0	1.7	36	17.9	1.8	1.5	42.8	17.9
K1547	59.5	6	4.9	1.2	28	16.3	1.6	3.0	38.2	20.4
K1548	61.5	2	5.0	1.3	31	17.2	1.6	4.0	40.8	19.0
K1549	58.0	8	8.0	1.9	39	15.7	1.9	2.5	41.0	18.4
K1560	60.6	4	4.8	1.6	31	18.8	2.1	3.5	39.9	20.3
K1561	53.0	32	6.4	1.3	29	14.6	1.7	3.0	39.4	18.9
K1562	59.8	5	5.0	1.8	36	16.0	1.7	3.5	40.1	19.0
K1563	63.3	1	8.1	1.3	32	16.8	2.0	3.5	39.7	19.6
K1564	59.1	7	6.2	1.6	31	14.2	1.6	2.5	41.0	20.4
LDX98152-32	57.5	10	5.2	1.5	31	15.7	1.6	1.5	42.3	18.5
LDX98154-8	56.0	20	3.6	1.6	30	16.2	2.0	3.0	39.4	20.1
LDX98160-20	53.6	31	2.4	1.5	33	15.3	2.0	4.0	40.4	20.3
LG98-1454	54.8	27	0.0	1.8	33	16.1	1.9	2.0	39.7	20.7
LG00-2482	55.6	22	0.6	1.9	35	16.2	2.2	1.5	38.8	20.2
LG00-2485	51.6	42	-0.6	1.6	34	16.2	2.4	3.5	38.9	19.5
LG00-3051	52.7	34	-2.9	2.1	33	16.1	1.5	1.0	39.9	20.0
LG00-3145	52.8	33	1.4	1.6	32	17.1	2.0	3.5	40.9	19.2
LG99-5106	54.7	28	1.8	1.6	31	14.5	1.8	1.5	39.0	20.4
LS99-2510	56.5	18	1.6	1.5	32	16.0	1.9	1.5	41.4	19.7
LS99-2516	57.1	12	3.3	1.5	33	16.4	1.8	3.0	41.1	19.7
LS99-3107	54.4	29	4.8	1.6	33	15.6	1.7	4.0	42.4	18.8
LS99-3149	55.5	24	4.8	2.3	35	14.2	1.8	1.5	40.5	19.2
UX1347-5	57.6	9	2.0	1.2	24	19.8	2.2	2.5	40.2	19.9

127.9 Days After Planting

PRELIMINARY TEST IIIA, 2002

YIELD (bu/a)

Strain	Mean 10 Tests	Ames IA	Carlisle IA	Urbana IL	Lafayette IN	Manhattan KS
IA3010 (III)	60.9	74.3	66.4	50.3	57.4	69.7
IA2052 (II)	51.5	65.6	62.2	48.0	59.1	51.1
IA3014 (SCN)	56.6	62.3	51.6	52.2	70.5	64.1
Macon (L)	56.6	61.3	59.9	51.4	61.7	67.7
A01-512021	50.1	65.1	58.7	45.1	57.9	49.8
A01-512036	49.2	54.5	57.0	44.1	58.2	43.1
A01-611005	44.3	50.1	45.3	39.5	52.5	34.4
A01-611010	51.9	72.7	68.5	50.1	57.6	66.5
A01-611037	52.4	61.6	57.9	46.9	53.5	52.0
A01-612003	52.7	63.7	57.2	46.5	59.8	57.4
A01-612009	52.3	56.9	56.0	50.8	56.7	56.3
A01-612011	51.2	57.2	56.6	48.5	53.2	52.5
A01-612013	52.2	57.3	62.6	45.4	53.3	56.6
A01-612016	50.5	51.9	47.6	48.2	56.3	49.4
A01-612018	51.7	65.8	47.0	49.5	50.8	54.0
A01-612032	55.7	64.8	62.2	42.1	56.6	65.4
A01-612038	55.4	66.6	58.1	51.3	60.1	50.0
A01-612041	52.5	61.5	58.4	49.4	55.2	49.3
A01-612043	56.8	59.1	65.4	44.8	58.4	62.6
C2026	57.0	58.8	62.5	49.6	63.7	64.0
C2028	55.3	67.5	63.0	50.8	72.4	63.1
C2029	57.1	60.5	59.3	51.7	60.5	64.4
C2031	53.7	63.6	61.2	48.0	58.9	51.2
C2032	51.6	53.1	57.8	45.3	59.6	44.8
C2033	49.9	54.6	46.3	46.9	56.1	52.3
HF00-092	56.3	66.4	62.7	46.7	61.8	56.0
HF00-137	55.6	51.2	55.0	53.0	60.8	61.2
HF00-196	57.2	56.3	65.0	42.2	55.8	64.5
K1547	59.5	70.8	60.9	53.2	62.1	73.8
K1548	61.5	67.7	67.1	54.9	58.9	68.3
K1549	58.0	58.7	65.8	52.8	58.3	62.5
K1560	60.6	65.0	64.5	56.9	61.3	71.6
K1561	53.0	60.5	56.5	42.8	54.0	65.8
K1562	59.8	61.3	67.9	50.4	67.1	64.3
K1563	63.3	73.5	67.5	55.8	63.7	72.7
K1564	59.1	65.9	63.6	43.8	62.6	70.0
LDX98152-32	57.5	63.8	58.0	46.1	56.3	69.8
LDX98154-8	56.0	68.8	63.0	57.1	68.9	55.7
LDX98160-20	53.6	60.9	58.7	55.8	59.3	62.7
LG98-1454	54.8	65.3	61.2	48.7	60.0	59.7
LG00-2482	55.6	68.3	61.6	47.5	60.3	51.9
LG00-2485	51.6	63.4	61.1	41.6	59.2	45.3
LG00-3051	52.7	67.0	56.5	46.9	60.3	50.1
LG00-3145	52.8	63.9	57.9	47.2	63.4	49.3
LG99-5106	54.7	60.6	60.8	49.3	57.4	52.1
LS99-2510	56.5	68.2	60.4	58.2	60.7	57.9
LS99-2516	57.1	64.3	55.8	55.6	65.6	55.5
LS99-3107	54.4	60.0	43.4	54.4	64.8	54.3
LS99-3149	55.5	53.9	56.2	45.1	59.4	59.9
UX1347-5	57.6	63.2	67.3	51.3	52.0	68.5
C.V. (%)		5.6	8.3	8.7	5.7	7.4
L.S.D. (5%)		7.1	9.9	8.6	6.9	8.7
Row Sp. (In.)		27	27	30	24	30
Rows/Plot		4	4	4	4	4
Reps		2	2	2	2	2

PRELIMINARY TEST IIIA, 2002

YIELD (bu/a)

Strain	Kingdom City MO	Palmyra NE	Plymouth NE	Hoytville OH	So. Charleston OH
IA3010 (III)	42.5	69.5	40.4	58.2	80.7
IA2052 (II)	27.6	62.4	33.8	50.8	54.5
IA3014 (SCN)	36.2	70.4	45.5	52.6	60.4
Macon (L)	40.8	69.4	39.1	49.9	65.1
A01-512021	26.8	59.7	41.1	44.9	51.8
A01-512036	31.4	62.4	35.5	56.0	49.7
A01-611005	30.0	62.1	30.5	47.5	51.5
A01-611010	16.0	64.3	27.4	45.0	50.7
A01-611037	35.1	72.8	42.4	46.9	55.0
A01-612003	36.8	68.4	41.0	39.7	56.5
A01-612009	35.0	69.1	30.3	53.6	58.3
A01-612011	31.1	65.7	35.2	51.6	60.4
A01-612013	29.8	72.3	39.7	47.5	57.3
A01-612016	35.6	69.7	42.8	46.7	56.9
A01-612018	31.0	74.7	42.0	45.2	56.7
A01-612032	40.5	71.3	39.4	52.9	62.0
A01-612038	34.7	70.3	45.0	62.1	56.1
A01-612041	34.1	62.4	44.9	52.0	57.6
A01-612043	40.7	74.0	48.9	51.8	62.1
C2026	42.6	75.3	45.3	51.0	56.9
C2028	32.5	46.1	36.5	53.6	67.3
C2029	35.6	71.4	42.6	58.9	66.0
C2031	31.3	65.9	48.4	50.8	57.6
C2032	40.9	70.4	44.1	40.1	60.4
C2033	33.9	64.7	39.2	46.3	58.4
HF00-092	36.8	74.3	45.2	56.7	56.2
HF00-137	49.3	73.1	44.2	47.1	61.2
HF00-196	53.9	71.7	46.2	48.6	68.2
K1547	44.5	76.2	41.2	47.4	64.8
K1548	46.6	71.8	53.9	59.2	67.1
K1549	46.0	75.9	46.6	56.0	57.9
K1560	45.2	80.1	44.3	56.8	60.5
K1561	37.3	67.3	39.7	36.7	69.7
K1562	40.4	73.5	49.6	59.4	64.5
K1563	46.4	81.1	48.8	54.1	69.3
K1564	43.0	72.0	49.9	50.4	70.0
LDX98152-32	46.4	76.5	43.3	57.2	57.7
LDX98154-8	32.5	70.7	35.5	47.6	60.0
LDX98160-20	32.4	67.7	41.5	38.8	58.0
LG98-1454	41.1	65.1	42.7	46.9	57.7
LG00-2482	41.5	70.0	39.1	55.2	60.7
LG00-2485	34.1	66.5	38.2	48.9	57.4
LG00-3051	28.8	67.2	37.5	50.8	62.4
LG00-3145	34.4	63.8	41.4	53.0	53.7
LG99-5106	44.8	73.8	42.7	51.8	53.3
LS99-2510	40.5	74.6	33.6	51.2	59.6
LS99-2516	43.3	71.7	40.7	53.2	65.2
LS99-3107	49.8	65.1	35.3	57.9	59.0
LS99-3149	45.2	79.1	41.9	52.3	61.7
UX1347-5	37.1	74.2	44.1	58.7	60.0
C.V. (%)	6.4	7.7	13.0	6.0	10.0
L.S.D. (5%)	4.1	10.8	10.8	3.9	11.9
Row Sp. (In.)	30	30	30	7.5	15
Rows/Plot	4	4	4	8	6
Reps	2	2	2	2	2

PRELIMINARY TEST IIIA, 2002

YIELD RANK

Strain	Yield Rank	Ames IA	Carlisle IA	Urbana IL	Lafayette IN	Manhattan KS
IA3010 (III)	3	1	6	20	35	6
IA2052 (II)	44	15	17	29	27	39
IA3014 (SCN)	16	27	45	12	2	16
Macon (L)	16	30	26	14	13	9
A01-512021	47	17	28	41	33	43
A01-512036	49	45	37	44	32	49
A01-611005	50	50	49	50	48	50
A01-611010	40	3	1	21	34	10
A01-611037	37	28	33	33	45	37
A01-612003	34	23	36	37	22	26
A01-612009	38	42	42	17	37	28
A01-612011	45	41	38	27	47	34
A01-612013	39	40	15	39	46	27
A01-612016	46	48	46	28	39	44
A01-612018	41	14	47	23	50	33
A01-612032	21	19	17	48	38	12
A01-612038	25	11	31	15	20	42
A01-612041	36	29	30	24	43	45
A01-612043	15	37	8	43	30	20
C2026	14	38	16	22	7	17
C2028	26	9	12	17	1	18
C2029	12	34	27	13	17	14
C2031	30	24	20	29	28	39
C2032	42	47	35	40	23	48
C2033	48	44	48	33	41	35
HF00-092	19	12	14	36	12	29
HF00-137	22	49	44	10	15	22
HF00-196	11	43	9	47	42	13
K1547	6	4	23	9	11	1
K1548	2	8	5	7	28	8
K1549	8	39	7	11	31	21
K1560	4	18	10	3	14	3
K1561	32	34	39	46	44	11
K1562	5	30	2	19	4	15
K1563	1	2	3	4	7	2
K1564	7	13	11	45	10	4
LDX98152-32	10	22	32	38	39	5
LDX98154-8	20	5	12	2	3	30
LDX98160-20	31	32	28	4	25	19
LG98-1454	27	16	20	26	21	24
LG00-2482	22	6	19	31	18	38
LG00-2485	42	25	22	49	26	47
LG00-3051	34	10	39	33	18	41
LG00-3145	33	21	33	32	9	45
LG99-5106	28	33	24	25	35	36
LS99-2510	18	7	25	1	16	25
LS99-2516	12	20	43	6	5	31
LS99-3107	29	36	50	8	6	32
LS99-3149	24	46	41	41	24	23
UX1347-5	9	26	4	15	49	7

PRELIMINARY TEST IIIA, 2002

YIELD RANK

Strain	Kingdom City MO	Palmyra NE	Plymouth NE	Hoytville OH	So. Charleston OH
IA3010 (III)	15	30	32	6	1
IA2052 (II)	48	46	46	28	44
IA3014 (SCN)	28	25	9	20	20
Macon (L)	19	31	37	32	10
A01-512021	49	49	29	46	47
A01-512036	41	46	42	11	50
A01-611005	45	48	48	36	48
A01-611010	50	43	50	45	49
A01-611037	31	16	23	40	43
A01-612003	26	33	30	48	40
A01-612009	32	32	49	15	28
A01-612011	43	39	45	25	20
A01-612013	46	17	33	36	36
A01-612016	29	29	19	42	37
A01-612018	44	8	24	44	39
A01-612032	21	23	35	19	15
A01-612038	33	27	12	1	42
A01-612041	35	46	13	22	33
A01-612043	20	12	4	23	14
C2026	14	7	10	27	37
C2028	38	50	41	15	6
C2029	30	22	22	4	8
C2031	42	38	6	28	33
C2032	18	25	16	47	20
C2033	37	42	36	43	27
HF00-092	26	10	11	10	41
HF00-137	3	15	15	39	17
HF00-196	1	20	8	34	5
K1547	11	5	28	38	11
K1548	4	19	1	3	7
K1549	7	6	7	11	30
K1560	8	2	14	9	19
K1561	24	35	33	50	3
K1562	23	14	3	2	12
K1563	5	1	5	14	4
K1564	13	18	2	31	2
LDX98152-32	5	4	18	8	31
LDX98154-8	38	24	42	35	23
LDX98160-20	40	34	26	49	29
LG98-1454	17	40	20	40	31
LG00-2482	16	28	37	13	18
LG00-2485	35	37	39	33	35
LG00-3051	47	36	40	28	13
LG00-3145	34	44	27	18	45
LG99-5106	10	13	20	23	46
LS99-2510	21	9	47	26	25
LS99-2516	12	20	31	17	9
LS99-3107	2	40	44	7	26
LS99-3149	8	3	25	21	16
UX1347-5	25	11	16	5	23

PRELIMINARY TEST IIIA, 2002

MATURITY (date)

Strain	Mean 9 Tests	Ames IA	Carlisle IA	Urbana IL	Lafayette IN	Manhattan KS
IA3010 (III)	9/23	9/21		9/29	9/30	9/24
IA2052 (II)	-6.0	-4		-9	-5	3
IA3014 (SCN)	1.1	1		0	2	0
Macon (L)	5.1	7		4	4	8
A01-512021	-3.9	-2		-5	-4	-1
A01-512036	-4.8	-6		-5	-3	1
A01-611005	-0.5	5		-1	2	3
A01-611010	-2.0	0		-2	-2	1
A01-611037	5.2	9		2	4	7
A01-612003	3.2	9		0	2	4
A01-612009	2.4	6		0	5	3
A01-612011	-0.5	2		-2	-2	1
A01-612013	-0.4	6		-1	-2	4
A01-612016	5.0	10		1	2	7
A01-612018	2.8	7		0	1	6
A01-612032	2.7	5		0	2	5
A01-612038	-0.6	6		-4	1	3
A01-612041	0.1	4		-2	4	5
A01-612043	4.2	9		1	4	7
C2026	2.0	8		-1	1	3
C2028	2.9	3		1	5	6
C2029	3.8	7		0	3	6
C2031	0.6	0		-1	3	4
C2032	2.0	4		1	1	2
C2033	2.0	5		0	2	4
HF00-092	-1.5	0		-1	-1	-1
HF00-137	10.5	18		5	9	11
HF00-196	10.0	15		4	5	11
K1547	4.9	8		0	3	6
K1548	5.0	6		1	3	6
K1549	8.0	12		2	9	8
K1560	4.8	7		0	3	7
K1561	6.4	11		2	3	8
K1562	5.0	6		2	8	8
K1563	8.1	14		3	7	7
K1564	6.2	9		1	7	8
LDX98152-32	5.2	8		2	3	6
LDX98154-8	3.6	4		1	2	5
LDX98160-20	2.4	6		1	1	4
LG98-1454	0.0	1		-1	-1	7
LG00-2482	0.6	0		-3	1	1
LG00-2485	-0.6	-3		-5	-1	5
LG00-3051	-2.9	-2		-10	-2	-1
LG00-3145	1.4	1		-1	2	6
LG99-5106	1.8	5		-1	1	1
LS99-2510	1.6	3		-1	1	5
LS99-2516	3.3	4		0	3	5
LS99-3107	4.8	8		-1	4	6
LS99-3149	4.8	7		-1	6	6
UX1347-5	2.0	3		0	1	6
Date Planted	5/18	5/4	5/8	6/3	6/3	5/9
Days to Mature	128	140		118	119	138

PRELIMINARY TEST IIIA, 2002

MATURITY (date)

Strain	Kingdom City MO	Palmyra NE	Plymouth NE	Hoytville OH	So. Charleston OH
IA3010 (III)	9/18	9/30	9/14	10/2	9/13
IA2052 (II)	-6	-3	-7	-12	-10
IA3014 (SCN)	2	1	4	-2	1
Macon (L)	5	2	8	2	6
A01-512021	-7	-3	-2	-6	-6
A01-512036	-7	-3	-4	-9	-7
A01-611005	-5	1	0	-6	-4
A01-611010	-6	0	-1	-3	-5
A01-611037	6	6	4	2	7
A01-612003	1	1	7	-2	7
A01-612009	2	0	4	-1	3
A01-612011	0	0	-1	-1	-1
A01-612013	-5	0	0	-1	-4
A01-612016	6	6	9	-1	6
A01-612018	2	3	5	-1	2
A01-612032	-1	1	7	-1	6
A01-612038	-5	0	0	-5	-1
A01-612041	-5	1	-1	-5	-1
A01-612043	2	1	6	3	6
C2026	-2	1	2	3	3
C2028	-2	2	8	-0	3
C2029	-1	8	5	4	3
C2031	-7	4	2	-2	3
C2032	2	1	5	-1	3
C2033	-4	2	4	-0	5
HF00-092	-5	-2	-2	-2	0
HF00-137	14	11	13	5	9
HF00-196	9	11	14	12	10
K1547	1	2	10	7	7
K1548	4	6	9	4	6
K1549	12	6	9	5	9
K1560	4	7	7	5	3
K1561	2	8	10	6	8
K1562	7	2	7	2	3
K1563	6	6	11	8	11
K1564	5	5	10	5	6
LDX98152-32	3	5	6	5	9
LDX98154-8	5	6	7	2	1
LDX98160-20	9	2	2	-2	-1
LG98-1454	5	-3	-2	-4	-2
LG00-2482	7	1	2	-2	-1
LG00-2485	10	-2	-2	-3	-4
LG00-3051	4	-3	-4	-8	0
LG00-3145	3	1	2	-2	1
LG99-5106	3	0	5	-1	3
LS99-2510	4	1	2	-0	0
LS99-2516	7	4	2	-0	5
LS99-3107	7	2	7	4	7
LS99-3149	9	6	4	0	6
UX1347-5	-1	5	3	2	0
Date Planted	5/23	5/30	5/10	6/1	5/1
Days to Mature	118	123	127	123	135

PRELIMINARY TEST IIIA, 2002

LODGING (score)

Strain	Mean 10 Tests	Ames IA	Carlisle IA	Urbana IL	Lafayette IN	Manhattan KS
IA3010 (III)	1.2	1.8	2.0	1.0	1.0	1.0
IA2052 (II)	1.6	2.8	3.3	1.0	1.3	2.0
IA3014 (SCN)	1.8	2.5	3.5	1.0	1.8	2.5
Macon (L)	1.4	2.3	2.8	1.3	1.0	1.5
A01-512021	2.1	3.3	3.8	1.0	2.0	3.5
A01-512036	2.5	3.3	3.8	1.5	3.3	4.5
A01-611005	2.7	3.8	4.8	1.3	3.3	5.0
A01-611010	1.4	2.3	3.0	1.0	1.0	2.0
A01-611037	1.7	2.8	3.8	1.0	1.0	2.5
A01-612003	1.8	3.3	4.0	1.0	1.0	3.0
A01-612009	2.2	3.3	3.8	1.3	2.5	3.0
A01-612011	2.4	2.8	4.3	1.0	2.3	4.0
A01-612013	1.6	2.8	2.8	1.0	1.0	3.5
A01-612016	2.4	3.3	4.8	1.0	2.5	4.0
A01-612018	2.3	3.3	4.8	1.0	2.0	4.0
A01-612032	1.5	2.8	2.5	1.0	1.0	2.0
A01-612038	2.2	2.8	4.3	1.5	2.5	4.0
A01-612041	2.1	3.0	4.0	1.0	1.8	4.0
A01-612043	2.0	2.8	4.0	1.0	1.8	3.0
C2026	1.9	3.0	3.5	1.0	1.5	3.5
C2028	1.9	3.0	2.8	1.0	1.5	3.0
C2029	2.0	3.0	3.5	1.5	1.5	3.0
C2031	1.9	3.0	2.8	1.3	1.5	3.0
C2032	1.9	2.8	2.5	1.3	1.8	3.5
C2033	1.9	3.0	3.8	1.0	1.0	3.0
HF00-092	1.4	2.0	2.5	1.0	1.5	1.5
HF00-137	2.2	3.3	4.0	1.3	1.8	3.5
HF00-196	1.7	2.8	2.5	1.0	1.3	3.0
K1547	1.2	2.0	1.8	1.0	1.0	1.0
K1548	1.3	2.0	2.3	1.0	1.0	1.5
K1549	1.9	2.8	3.0	1.0	1.3	3.0
K1560	1.6	3.0	3.3	1.0	1.3	2.0
K1561	1.3	2.3	2.0	1.0	1.0	1.0
K1562	1.8	2.8	3.0	1.0	1.5	3.0
K1563	1.3	2.0	2.3	1.0	1.0	1.0
K1564	1.6	2.5	2.8	1.0	1.0	1.0
LDX98152-32	1.5	2.5	2.8	1.0	1.0	2.0
LDX98154-8	1.6	2.5	3.5	1.0	1.3	2.5
LDX98160-20	1.5	2.3	2.8	1.0	1.0	2.5
LG98-1454	1.8	2.5	3.3	1.0	1.3	3.0
LG00-2482	1.9	3.3	3.3	1.3	2.5	2.5
LG00-2485	1.6	2.3	3.0	1.0	1.5	2.0
LG00-3051	2.1	3.3	4.3	1.3	1.5	4.0
LG00-3145	1.6	2.3	2.5	1.3	1.3	2.0
LG99-5106	1.6	2.3	3.8	1.0	1.0	2.0
LS99-2510	1.5	2.0	3.0	1.0	1.0	2.0
LS99-2516	1.5	2.5	3.3	1.0	1.0	2.0
LS99-3107	1.6	2.3	2.8	1.0	1.5	2.0
LS99-3149	2.3	3.0	3.5	2.0	2.0	3.5
UX1347-5	1.2	2.0	1.8	1.0	1.0	1.0

PRELIMINARY TEST IIIA, 2002

LODGING (score)

Strain	Kingdom City MO	Palmyra NE	Plymouth NE	Hoytville OH	So. Charles-ton OH
IA3010 (III)	1.0	1.0	1.0	1.2	1.0
IA2052 (II)	1.0	1.0	1.0	1.2	1.6
IA3014 (SCN)	1.0	2.0	1.0	1.4	1.6
Macon (L)	1.0	1.0	1.0	1.0	1.2
A01-512021	1.0	2.5	1.0	1.0	1.8
A01-512036	1.0	3.0	1.0	2.3	1.7
A01-611005	1.0	3.0	1.0	1.6	1.9
A01-611010	1.0	1.0	1.0	0.8	1.0
A01-611037	1.0	2.0	1.0	1.0	1.0
A01-612003	1.0	1.0	1.0	1.0	1.3
A01-612009	1.0	2.0	1.0	2.0	2.3
A01-612011	1.0	2.0	1.0	1.2	4.2
A01-612013	1.0	1.0	1.0	1.1	1.2
A01-612016	1.0	2.0	1.0	1.5	2.6
A01-612018	1.0	1.5	1.0	2.8	1.7
A01-612032	1.0	1.0	1.0	1.5	1.0
A01-612038	1.0	2.0	1.0	1.5	1.6
A01-612041	1.0	2.5	1.0	2.0	1.2
A01-612043	1.0	1.5	1.0	1.5	2.1
C2026	1.0	1.0	1.0	1.6	1.6
C2028	1.0	2.5	1.0	1.5	1.5
C2029	1.0	2.0	1.0	1.8	1.9
C2031	1.0	2.5	1.0	1.1	1.8
C2032	1.0	2.0	1.0	1.5	1.4
C2033	1.0	1.0	1.0	1.6	2.2
HF00-092	1.0	1.0	1.0	1.6	1.2
HF00-137	1.0	2.0	1.0	1.5	2.7
HF00-196	1.0	1.5	1.0	1.0	1.7
K1547	1.0	1.0	1.0	1.1	1.0
K1548	1.0	1.0	1.0	1.0	1.2
K1549	1.0	2.0	1.0	1.9	2.2
K1560	1.0	1.0	1.0	1.0	1.2
K1561	1.0	1.0	1.0	1.7	1.0
K1562	1.0	1.5	1.0	1.7	1.6
K1563	1.0	1.0	1.0	1.5	1.1
K1564	1.0	1.0	1.0	3.3	1.1
LDX98152-32	1.0	1.0	1.0	1.8	1.3
LDX98154-8	1.0	1.0	1.0	1.1	1.1
LDX98160-20	1.0	1.0	1.0	1.4	1.0
LG98-1454	1.0	2.0	1.0	1.6	1.2
LG00-2482	1.0	1.5	1.0	1.6	1.3
LG00-2485	1.0	1.0	1.0	1.5	1.4
LG00-3051	1.0	2.0	1.0	1.0	1.6
LG00-3145	1.0	2.0	1.0	1.7	1.3
LG99-5106	1.0	1.0	1.0	1.2	1.2
LS99-2510	1.0	1.0	1.0	2.0	1.2
LS99-2516	1.0	1.0	1.0	1.0	1.6
LS99-3107	1.0	1.0	1.0	1.4	1.7
LS99-3149	1.0	3.0	1.0	1.8	1.8
UX1347-5	1.0	1.0	1.0	1.3	1.0

PRELIMINARY TEST IIIA, 2002

PLANT HEIGHT (inches)

Strain	Mean 10 Tests	Ames IA	Carlisle IA	Urbana IL	Lafayette IN	Manhattan KS
IA3010 (III)	27	25	33	28	30	32
IA2052 (II)	33	39	44	33	38	38
IA3014 (SCN)	34	35	37	32	37	41
Macon (L)	33	41	42	30	43	36
A01-512021	31	33	43	28	36	37
A01-512036	35	36	39	32	42	38
A01-611005	34	36	45	31	38	40
A01-611010	30	34	42	29	33	37
A01-611037	31	36	40	29	38	37
A01-612003	34	39	43	30	37	38
A01-612009	33	37	42	31	36	36
A01-612011	31	32	42	29	35	31
A01-612013	30	33	39	28	33	34
A01-612016	34	37	45	31	38	39
A01-612018	30	33	39	30	34	36
A01-612032	32	29	43	30	37	41
A01-612038	36	41	47	36	42	40
A01-612041	35	38	48	32	41	40
A01-612043	37	40	46	37	42	38
C2026	35	40	48	30	37	35
C2028	32	32	39	30	38	34
C2029	36	36	44	38	42	44
C2031	35	30	40	39	47	43
C2032	32	36	40	32	37	35
C2033	33	35	42	30	37	38
HF00-092	30	33	39	29	34	34
HF00-137	36	36	47	35	40	42
HF00-196	36	38	43	31	43	44
K1547	28	28	38	26	31	35
K1548	31	34	41	30	35	34
K1549	39	39	46	37	44	43
K1560	31	35	41	28	34	35
K1561	29	34	38	24	34	35
K1562	36	36	45	36	41	41
K1563	32	36	41	29	37	40
K1564	31	34	40	26	35	36
LDX98152-32	31	36	41	28	37	36
LDX98154-8	30	30	38	30	37	33
LDX98160-20	33	39	43	33	40	39
LG98-1454	33	36	45	31	37	35
LG00-2482	35	39	43	32	38	38
LG00-2485	34	34	41	32	40	37
LG00-3051	33	33	41	36	38	37
LG00-3145	32	34	42	31	37	34
LG99-5106	31	35	43	29	35	36
LS99-2510	32	35	40	29	38	38
LS99-2516	33	37	39	28	37	36
LS99-3107	33	36	44	29	37	35
LS99-3149	35	30	46	32	43	42
UX1347-5	24	23	30	24	28	25

PRELIMINARY TEST IIIA, 2002

PLANT HEIGHT (inches)

Strain	Kingdom City MO	Palmyra NE	Plymouth NE	Hoytville OH	So. Charleston OH
IA3010 (III)	17	25	22	29	29
IA2052 (II)	26	29	25	29	31
IA3014 (SCN)	25	35	30	32	35
Macon (L)	22	31	28	28	32
A01-512021	22	31	27	28	28
A01-512036	27	37	33	35	31
A01-611005	26	34	28	32	34
A01-611010	22	31	24	25	24
A01-611037	22	29	26	27	30
A01-612003	25	32	28	31	34
A01-612009	24	33	29	34	32
A01-612011	25	29	27	27	30
A01-612013	26	27	24	28	29
A01-612016	24	32	31	31	35
A01-612018	19	28	26	23	29
A01-612032	20	31	27	29	33
A01-612038	24	37	31	32	35
A01-612041	24	33	29	32	34
A01-612043	29	35	31	28	40
C2026	28	30	35	36	35
C2028	23	31	27	30	32
C2029	27	36	30	32	35
C2031	21	40	27	30	32
C2032	23	33	28	26	32
C2033	23	31	29	30	34
HF00-092	17	28	25	28	29
HF00-137	26	37	33	33	36
HF00-196	27	37	31	29	36
K1547	19	26	24	20	31
K1548	22	28	30	26	31
K1549	30	39	36	37	40
K1560	22	32	27	24	29
K1561	20	28	24	24	30
K1562	25	37	33	33	37
K1563	24	30	28	27	31
K1564	23	30	30	25	30
LDX98152-32	21	31	27	27	30
LDX98154-8	23	31	25	28	28
LDX98160-20	27	33	26	23	31
LG98-1454	23	30	30	28	33
LG00-2482	25	32	31	35	33
LG00-2485	28	32	29	34	35
LG00-3051	22	33	27	29	34
LG00-3145	21	32	28	32	32
LG99-5106	21	29	28	29	30
LS99-2510	22	30	29	29	32
LS99-2516	25	31	31	31	35
LS99-3107	25	32	26	30	36
LS99-3149	27	37	29	29	35
UX1347-5	17	25	22	28	20

PRELIMINARY TEST IIIA, 2002

SEED SIZE (g/100)

Strain	Mean 10 Tests	Ames IA	Carlisle IA	Urbana IL	Lafayette IN	Manhattan KS
IA3010 (III)	15.9	16.7	15.4	18.0	15.1	15.2
IA2052 (II)	15.4	14.9	15.5	16.6	16.0	15.5
IA3014 (SCN)	15.7	17.0	15.2	18.0	15.5	14.6
Macon (L)	18.3	19.8	17.8	21.8	17.9	17.7
A01-512021	15.8	17.0	15.0	18.8	15.9	15.4
A01-512036	15.8	15.5	15.6	18.4	16.2	14.9
A01-611005	19.2	20.3	19.2	20.9	21.5	17.3
A01-611010	17.8	18.0	17.8	18.8	16.4	19.4
A01-611037	21.7	24.4	21.5	24.3	22.9	20.1
A01-612003	17.9	20.5	16.4	19.7	18.0	18.6
A01-612009	19.0	21.4	19.9	22.0	19.3	17.3
A01-612011	18.4	18.8	18.5	19.4	18.2	17.8
A01-612013	19.8	22.4	19.0	20.9	19.2	18.7
A01-612016	17.8	19.6	17.9	18.0	18.3	17.6
A01-612018	18.7	20.7	17.6	19.1	16.6	19.3
A01-612032	16.4	17.5	15.5	16.2	15.9	16.0
A01-612038	17.5	19.6	17.4	18.7	17.9	15.8
A01-612041	18.1	19.5	18.0	19.6	18.1	18.8
A01-612043	16.3	18.3	16.4	17.9	16.4	15.5
C2026	16.0	17.2	16.2	17.4	15.0	15.5
C2028	16.4	17.1	16.5	19.5	17.0	16.1
C2029	16.2	17.5	15.6	18.7	15.3	16.5
C2031	15.7	16.1	15.5	16.4	16.3	16.0
C2032	16.2	18.8	17.0	18.1	14.8	13.7
C2033	16.2	17.5	16.5	18.0	17.0	15.2
HF00-092	14.6	15.6	14.7	16.6	14.1	13.6
HF00-137	16.4	17.7	16.8	18.0	15.4	18.0
HF00-196	17.9	19.5	18.5	19.4	18.6	20.3
K1547	16.3	15.9	16.0	16.9	16.4	17.2
K1548	17.2	17.9	16.4	18.8	17.1	16.3
K1549	15.7	17.0	16.4	17.8	16.8	17.0
K1560	18.8	20.8	17.8	21.2	19.6	18.9
K1561	14.6	15.4	14.1	15.6	13.7	13.5
K1562	16.0	16.7	15.7	17.7	17.2	15.3
K1563	16.8	18.8	16.4	17.5	15.7	17.1
K1564	14.2	15.0	14.4	15.3	13.3	15.8
LDX98152-32	15.7	16.0	14.6	16.1	15.0	15.9
LDX98154-8	16.2	16.7	14.1	19.2	17.4	15.0
LDX98160-20	15.3	16.1	16.4	16.9	14.9	17.0
LG98-1454	16.1	17.5	16.1	18.3	16.1	15.6
LG00-2482	16.2	18.2	16.0	17.5	15.3	17.1
LG00-2485	16.2	17.2	16.6	17.5	15.0	16.9
LG00-3051	16.1	16.7	15.7	16.3	17.0	17.7
LG00-3145	17.1	17.3	16.3	18.4	18.0	18.9
LG99-5106	14.5	16.0	13.5	15.1	14.3	13.3
LS99-2510	16.0	18.1	15.0	18.5	16.4	14.8
LS99-2516	16.4	17.8	14.7	19.0	15.6	16.6
LS99-3107	15.6	17.4	14.9	18.1	16.6	14.0
LS99-3149	14.2	14.5	14.4	16.1	14.2	14.7
UX1347-5	19.8	20.8	20.5	21.0	18.9	22.8

PRELIMINARY TEST IIIA, 2002

SEED SIZE (g/100)

Strain	Kingdom City MO	Palmyra NE	Plymouth NE	Hoytville OH	So. Charleston OH
IA3010 (III)	18.0	17.8	16.1	12.7	14.3
IA2052 (II)	14.0	18.7	15.5	14.0	13.8
IA3014 (SCN)	17.0	16.6	15.3	13.1	14.7
Macon (L)	20.0	19.9	17.5	14.6	15.9
A01-512021	16.0	17.6	14.6	13.7	13.9
A01-512036	16.0	18.2	16.2	13.2	13.8
A01-611005	20.0	20.6	18.6	16.1	17.8
A01-611010	19.0	21.1	17.9	14.9	15.2
A01-611037	22.0	22.4	20.4	18.3	20.8
A01-612003	19.0	18.1	17.7	15.0	16.4
A01-612009	18.0	20.1	18.4	15.8	17.6
A01-612011	20.0	20.5	17.7	15.7	17.4
A01-612013	21.0	22.3	20.0	16.7	17.9
A01-612016	18.0	18.5	17.6	14.9	17.2
A01-612018	21.0	21.4	18.4	14.9	17.5
A01-612032	20.0	17.6	16.7	13.4	15.1
A01-612038	17.0	20.6	17.1	15.4	15.7
A01-612041	19.0	20.2	18.3	14.8	15.2
A01-612043	18.0	16.5	16.0	13.4	14.9
C2026	18.0	17.7	16.2	13.5	13.0
C2028	12.0	18.5	19.1	13.3	15.2
C2029	15.0	17.8	16.2	15.1	14.0
C2031	14.0	18.2	17.3	13.2	14.3
C2032	15.0	17.2	17.8	14.1	15.8
C2033	16.0	19.8	15.6	13.0	13.6
HF00-092	16.0	15.9	14.4	12.2	12.9
HF00-137	16.0	17.1	15.9	13.9	15.6
HF00-196	15.0	17.8	17.0	15.3	17.9
K1547	16.0	17.4	18.1	13.6	15.6
K1548	19.0	17.3	17.8	14.6	16.4
K1549	13.0	15.4	14.3	13.2	16.1
K1560	18.0	20.1	18.5	15.8	17.0
K1561	18.0	15.0	14.8	12.3	13.7
K1562	18.0	16.6	15.2	13.8	14.1
K1563	16.0	18.6	18.4	14.7	14.5
K1564	14.0	14.7	15.6	11.4	12.8
LDX98152-32	19.0	17.7	14.4	14.3	14.1
LDX98154-8	15.0	20.0	16.3	13.4	15.3
LDX98160-20	13.0	18.1	15.4	12.4	13.1
LG98-1454	15.0	18.5	16.3	13.3	14.7
LG00-2482	16.0	17.7	17.3	13.1	13.7
LG00-2485	15.0	19.1	17.3	13.7	13.8
LG00-3051	18.0	17.7	14.1	13.2	14.8
LG00-3145	15.0	18.8	17.8	15.4	15.5
LG99-5106	17.0	16.1	14.7	11.8	13.3
LS99-2510	15.0	17.4	15.8	13.4	15.4
LS99-2516	18.0	17.2	14.9	14.9	15.7
LS99-3107	14.0	17.6	15.3	12.9	15.4
LS99-3149	13.0	15.5	14.3	12.4	12.7
UX1347-5	17.0	22.8	18.9	16.4	18.6

PRELIMINARY TEST IIIA, 2002

SEED QUALITY (score)

Strain	Mean 6 Tests	Ames IA	Carlisle IA	Urbana IL	Lafayette IN	Manhattan KS
IA3010 (III)	2.0			3.0	1.0	3.0
IA2052 (II)	1.8			1.5	1.0	3.0
IA3014 (SCN)	1.9			2.0	1.0	3.0
Macon (L)	1.9			2.0	1.0	3.0
A01-512021	2.1			2.5	1.0	4.0
A01-512036	2.2			3.0	1.0	4.0
A01-611005	2.6			3.0	1.5	5.0
A01-611010	2.0			2.0	1.5	4.0
A01-611037	2.3			2.5	1.0	4.0
A01-612003	1.9			2.5	1.0	3.0
A01-612009	2.2			3.0	2.0	3.0
A01-612011	2.2			2.0	1.5	4.0
A01-612013	2.2			3.0	1.0	4.0
A01-612016	2.0			2.5	1.0	3.0
A01-612018	2.0			2.5	1.0	3.0
A01-612032	1.9			2.0	1.0	3.0
A01-612038	1.8			2.0	1.0	3.0
A01-612041	2.6			3.0	3.0	4.0
A01-612043	2.1			3.0	1.0	3.0
C2026	1.9			2.5	1.0	3.0
C2028	2.1			3.0	1.0	3.0
C2029	2.0			2.0	1.5	3.0
C2031	1.9			2.0	1.0	3.0
C2032	2.0			2.5	1.0	3.0
C2033	2.0			2.5	1.0	3.0
HF00-092	1.9			2.5	1.0	3.0
HF00-137	2.0			2.0	1.0	3.0
HF00-196	1.8			2.0	1.0	2.0
K1547	1.6			1.5	1.0	2.0
K1548	1.6			2.0	1.0	2.0
K1549	1.9			2.0	1.0	3.0
K1560	2.1			2.0	1.5	4.0
K1561	1.7			1.5	1.0	2.0
K1562	1.7			2.0	1.0	2.0
K1563	2.0			2.5	1.0	3.0
K1564	1.6			2.0	1.0	2.0
LDX98152-32	1.6			2.0	1.0	2.0
LDX98154-8	2.0			3.0	1.5	2.0
LDX98160-20	2.0			2.0	1.0	2.0
LG98-1454	1.9			2.0	1.0	3.0
LG00-2482	2.2			2.5	1.5	3.0
LG00-2485	2.4			2.5	2.0	4.0
LG00-3051	1.5			1.5	1.0	2.0
LG00-3145	2.0			2.0	1.0	3.0
LG99-5106	1.8			2.0	1.0	3.0
LS99-2510	1.9			2.0	1.0	3.0
LS99-2516	1.8			2.0	1.0	3.0
LS99-3107	1.7			2.0	1.0	2.0
LS99-3149	1.8			2.0	1.0	2.0
UX1347-5	2.2			2.5	1.5	4.0

PRELIMINARY TEST IIIA, 2002

SEED QUALITY (score)

Strain	Kingdom City MO	Palmyra NE	Plymouth NE	Hoytville OH	So. Charleston OH
IA3010 (III)	2.0			1.8	1.3
IA2052 (II)	2.0			1.5	1.8
IA3014 (SCN)	2.0			1.6	1.5
Macon (L)	2.0			1.7	1.4
A01-512021	2.0			1.6	1.5
A01-512036	2.0			1.7	1.5
A01-611005	2.0			1.9	2.3
A01-611010	2.0			1.5	1.2
A01-611037	2.0			2.0	2.0
A01-612003	2.0			1.5	1.5
A01-612009	2.0			1.9	1.5
A01-612011	2.0			1.5	2.0
A01-612013	2.0			1.7	1.7
A01-612016	2.0			1.6	2.0
A01-612018	2.0			1.7	1.5
A01-612032	2.0			1.8	1.3
A01-612038	2.0			1.8	1.2
A01-612041	2.0			1.7	2.0
A01-612043	2.0			2.2	1.3
C2026	2.0			1.5	1.3
C2028	2.0			2.2	1.5
C2029	2.0			1.9	1.5
C2031	2.0			2.0	1.5
C2032	2.0			1.8	1.5
C2033	2.0			1.7	1.7
HF00-092	2.0			1.7	1.2
HF00-137	2.0			2.5	1.7
HF00-196	2.0			2.2	1.7
K1547	2.0			1.7	1.5
K1548	2.0			1.8	1.0
K1549	2.0			1.8	1.5
K1560	2.0			1.9	1.0
K1561	2.0			2.2	1.3
K1562	2.0			1.6	1.3
K1563	2.0			1.9	1.6
K1564	2.0			1.6	1.2
LDX98152-32	2.0			1.7	1.0
LDX98154-8	2.0			1.6	1.7
LDX98160-20	3.0			2.1	1.8
LG98-1454	2.0			1.9	1.5
LG00-2482	2.0			1.9	2.3
LG00-2485	2.0			2.1	1.5
LG00-3051	2.0			1.5	1.0
LG00-3145	2.0			1.8	2.0
LG99-5106	2.0			2.0	1.0
LS99-2510	2.0			1.9	1.5
LS99-2516	2.0			1.5	1.5
LS99-3107	2.0			1.6	1.5
LS99-3149	2.0			1.7	1.8
UX1347-5	2.0			2.1	1.2

PRELIMINARY TEST IIIA, 2002

GREEN STEM (Score)

Strain	Mean 2 Tests	Kingdom City MO	Palmyra NE
IA3010 (III)	1.5	1.0	2.0
IA2052 (II)	3.5	3.0	4.0
IA3014 (SCN)	2.5	3.0	2.0
Macon (L)	3.0	3.0	3.0
A01-512021	1.5	1.0	2.0
A01-512036	2.0	1.0	3.0
A01-611005	2.0	1.0	3.0
A01-611010	3.0	1.0	5.0
A01-611037	2.5	1.0	4.0
A01-612003	1.5	1.0	2.0
A01-612009	1.5	1.0	2.0
A01-612011	1.5	1.0	2.0
A01-612013	2.5	1.0	4.0
A01-612016	2.0	1.0	3.0
A01-612018	2.0	1.0	3.0
A01-612032	1.5	1.0	2.0
A01-612038	2.0	1.0	3.0
A01-612041	2.5	1.0	4.0
A01-612043	2.0	1.0	3.0
C2026	1.5	1.0	2.0
C2028	2.0	1.0	3.0
C2029	1.5	1.0	2.0
C2031	1.5	1.0	2.0
C2032	3.5	5.0	2.0
C2033	2.0	1.0	3.0
HF00-092	2.5	3.0	2.0
HF00-137	3.5	5.0	2.0
HF00-196	1.5	1.0	2.0
K1547	3.0	3.0	3.0
K1548	4.0	5.0	3.0
K1549	2.5	3.0	2.0
K1560	3.5	4.0	3.0
K1561	3.0	4.0	2.0
K1562	3.5	5.0	2.0
K1563	3.5	3.0	4.0
K1564	2.5	3.0	2.0
LDX98152-32	1.5	1.0	2.0
LDX98154-8	3.0	1.0	5.0
LDX98160-20	4.0	3.0	5.0
LG98-1454	2.0	1.0	3.0
LG00-2482	1.5	1.0	2.0
LG00-2485	3.5	5.0	2.0
LG00-3051	1.0	1.0	1.0
LG00-3145	3.5	4.0	3.0
LG99-5106	1.5	1.0	2.0
LS99-2510	1.5	1.0	2.0
LS99-2516	3.0	4.0	2.0
LS99-3107	4.0	5.0	3.0
LS99-3149	1.5	1.0	2.0
UX1347-5	2.5	1.0	4.0

PRELIMINARY TEST IIIA, 2002

PROTEIN (%)

Strain	Mean 5 Tests	Ames IA	Urbana IL	Lafayette IN	Plymouth NE	Hoytville OH
IA3010 (III)	38.5	39.3	40.1	40.0	38.4	34.4
IA2052 (II)	40.3	41.7	41.7	40.4	41.2	36.6
IA3014 (SCN)	39.6	40.7	41.4	40.7	40.8	34.3
Macon (L)	40.6	40.9	44.1	40.6	40.7	36.8
A01-512021	40.6	41.4	42.0	41.6	42.6	35.4
A01-512036	40.3	41.6	42.5	41.1	40.5	35.8
A01-611005	42.5	43.1	43.5	43.3	43.6	38.8
A01-611010	41.3	41.4	42.3	42.3	41.8	38.6
A01-611037	43.0	42.6	44.8	44.0	43.3	40.2
A01-612003	42.9	43.5	45.5	40.8	45.1	39.8
A01-612009	43.8	44.5	44.8	44.9	45.1	39.6
A01-612011	43.4	44.9	44.0	46.4	43.9	37.8
A01-612013	42.8	43.5	42.6	44.1	44.4	39.1
A01-612016	42.8	42.6	45.1	44.7	43.2	38.3
A01-612018	41.8	41.6	43.4	43.9	43.8	36.4
A01-612032	40.5	40.1	43.2	42.4	40.5	36.1
A01-612038	40.2	41.3	41.2	43.2	41.0	34.5
A01-612041	40.1	41.4	41.4	42.8	41.2	33.9
A01-612043	40.7	41.6	42.3	40.8	42.0	36.7
C2026	39.5	40.0	40.9	41.0	40.1	35.5
C2028	40.7	42.1	43.3	41.6	41.0	35.4
C2029	39.7	39.6	41.7	41.1	39.5	36.8
C2031	39.0	39.7	40.4	40.8	40.1	33.9
C2032	46.0	46.8	48.8	46.0	46.5	41.8
C2033	46.1	47.0	48.5	47.2	46.0	41.9
HF00-092	40.5	41.6	42.9	41.6	40.2	36.0
HF00-137	40.3	41.7	42.1	41.5	39.0	37.3
HF00-196	42.8	44.0	44.0	43.1	42.7	40.3
K1547	38.2	37.0	40.4	40.6	39.8	33.5
K1548	40.8	40.9	42.5	41.6	41.2	37.9
K1549	41.0	41.8	44.1	41.5	40.5	37.1
K1560	39.9	40.8	40.7	40.7	40.4	36.7
K1561	39.4	40.4	41.9	39.9	40.1	34.7
K1562	40.1	40.6	42.5	41.8	40.2	35.5
K1563	39.7	40.7	42.8	40.3	39.3	35.1
K1564	41.0	42.5	43.3	42.2	41.3	35.5
LDX98152-32	42.3	42.8	44.1	42.0	43.2	39.6
LDX98154-8	39.4	40.6	41.7	39.6	40.8	34.1
LDX98160-20	40.4	41.5	41.9	41.2	41.1	36.3
LG98-1454	39.7	41.3	41.2	41.2	41.1	33.6
LG00-2482	38.8	39.7	39.9	40.3	39.9	34.3
LG00-2485	38.9	39.3	40.6	39.9	39.6	35.3
LG00-3051	39.9	41.6	40.6	41.1	39.4	36.6
LG00-3145	40.9	39.2	42.7	42.7	41.1	38.8
LG99-5106	39.0	40.3	40.4	39.6	39.7	34.9
LS99-2510	41.4	41.9	43.2	43.0	42.5	36.6
LS99-2516	41.1	41.9	43.5	41.5	40.5	37.9
LS99-3107	42.4	42.5	44.8	43.8	43.2	37.9
LS99-3149	40.5	40.7	42.6	41.7	40.6	36.8
UX1347-5	40.2	41.4	41.9	40.9	40.9	36.2

PRELIMINARY TEST IIIA, 2002

OIL (%)

Strain	Mean 5 Tests	Ames IA	Urbana IL	Lafayette IN	Plymouth NE	Hoytville OH
IA3010 (III)	19.2	18.8	19.3	18.6	20.0	19.3
IA2052 (II)	19.6	19.3	20.3	17.6	20.2	20.5
IA3014 (SCN)	20.3	19.8	20.7	19.3	21.2	20.6
Macon (L)	19.3	18.0	19.6	18.4	20.9	19.7
A01-512021	19.1	18.3	19.5	18.5	19.1	19.9
A01-512036	19.8	19.0	20.3	20.2	18.5	21.0
A01-611005	18.7	18.1	18.5	18.4	19.0	19.7
A01-611010	20.4	19.9	21.1	20.1	20.9	19.8
A01-611037	18.2	17.8	18.1	18.1	18.4	18.4
A01-612003	18.2	17.6	18.3	17.3	18.9	19.0
A01-612009	18.1	17.1	18.9	17.8	18.5	18.0
A01-612011	17.9	17.0	18.3	17.5	18.5	18.2
A01-612013	18.1	17.9	18.6	18.0	18.2	18.0
A01-612016	17.7	14.4	18.5	17.9	19.2	18.4
A01-612018	18.0	16.9	18.4	17.7	18.4	18.8
A01-612032	19.4	19.4	19.0	18.6	20.4	19.5
A01-612038	19.7	18.9	20.2	20.0	19.7	19.5
A01-612041	20.1	19.6	20.4	19.5	20.4	20.8
A01-612043	18.3	17.2	18.6	18.2	19.1	18.4
C2026	19.4	18.5	20.3	18.8	20.4	18.9
C2028	19.3	18.9	19.6	19.3	19.8	19.1
C2029	19.4	18.8	20.2	19.6	20.6	17.9
C2031	19.5	18.9	19.4	18.9	20.5	19.8
C2032	17.6	17.0	17.6	17.9	17.9	17.7
C2033	17.7	17.6	17.2	17.3	18.6	18.0
HF00-092	19.7	19.1	19.9	19.0	20.7	20.0
HF00-137	19.4	18.6	20.4	19.2	20.2	18.5
HF00-196	17.9	17.1	18.0	18.1	18.7	17.4
K1547	20.4	20.9	20.9	18.2	21.6	20.4
K1548	19.0	18.2	19.3	18.8	19.9	19.0
K1549	18.4	17.4	18.4	17.9	19.7	18.6
K1560	20.3	19.7	20.7	19.6	21.0	20.4
K1561	18.9	18.3	18.6	18.8	19.8	19.2
K1562	19.0	18.7	18.9	18.2	20.1	18.9
K1563	19.6	18.8	19.6	19.0	21.0	19.4
K1564	20.4	19.2	20.5	19.8	21.9	20.7
LDX98152-32	18.5	17.9	18.4	18.7	19.3	18.1
LDX98154-8	20.1	19.4	20.3	20.8	20.8	19.4
LDX98160-20	20.3	19.4	20.5	19.9	21.8	20.0
LG98-1454	20.7	19.9	20.7	20.7	21.6	20.7
LG00-2482	20.2	19.0	20.7	19.9	20.7	20.6
LG00-2485	19.5	18.6	20.3	19.5	20.8	18.5
LG00-3051	20.0	18.9	20.8	19.4	21.4	19.7
LG00-3145	19.2	18.3	18.9	18.8	20.5	19.4
LG99-5106	20.4	19.8	19.8	20.9	21.1	20.3
LS99-2510	19.7	19.1	19.7	19.2	20.6	19.9
LS99-2516	19.7	18.6	19.6	20.2	20.7	19.2
LS99-3107	18.8	17.9	19.1	18.7	19.5	18.6
LS99-3149	19.2	18.8	19.6	19.5	18.8	19.4
UX1347-5	19.9	18.9	20.3	20.2	20.4	19.6

Ent.	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.	Macon (L)	Sherman x Resnik	F5	
4.	NE3001	Colfax x A91-701035	F4	determinate
5.	Apex (HC94-1065)	HC85-607 x HC78-676 BC	F5	dt1
6.	E00101	Probst x Northrup King S20-91	F5	
7.	E00105	E93433 x Pioneer 9163	F5	
8.	E00153	Apollo x E93433	F5	
9.	E00178	IA2021 x IA2022	F5	
10.	E00257	ORC9308 x Northrup King S19-90	F5	
11.	E00274	Jack x DST2118	F5	
12.	E00294	Jack x AgriPro1995	F5	
13.	E00306	Jack x IA2021	F5	
14.	E00308	Jack x IA2021	F5	
15.	HC98-71PR	HC85-6723B(4) x Charleston BC	BC3F3	Rps1-k, dt1
16.	HC98-76PR	HC85-6723B(4) x Sprite 87	BC3F3	Rps1-k, dt1
17.	HC99-27MB	Stout x HC95-24MB	F5	dt1
18.	HC99-34PR	HC85-6723B(4) x Sprite 87	BC3F3	Rps1-k, dt1
19.	HC99-665	PR94-82 x HC91-1354	F5	dt1
20.	HC99-1108	[PR93-21 x Jack](2) x Charleston BC	BC1F3	dt1
21.	HC99-1334	[PR93-21 x Jack](2) x Charleston BC	BC1F3	dt1
22.	HC99-1503	DPL-3478 x Sprite 87	F5	dt1
23.	HC99-4792	HC85-606 x HC78-676BC	F5	dt1
24.	HC99-4826	Charleston x HC74-634REBC	F5	dt1
25.	HC99-4837	HC85-607 x HC78-676BC	F5	dt1
26.	HC99-4919	[PR93-21 x Jack](2) x Charleston BC	BC1F3	dt1
27.	HS99-4256	HS94-4530 x IA 3004	F5	
28.	HS99-4262	HS94-4530 x IA 3004	F5	
29.	HS99-4468	9392 x HS93-7181	F5	
30.	HS0-3243	HS93-4118 x Kottman	F5	
31.	HS0-3244	HS93-4118 x Kottman	F5	
32.	HS0-3246	HS93-4118 x Kottman	F5	
33.	HS0-3248	HS93-4118 x Kottman	F5	
34.	HS0-3259	HS93-4118 x Kottman	F5	
35.	HS0-3364	9352 x HS93-4118	F5	
36.	U00-320260	NE3001 x Tengamine	F5	determinate
37.	U00-320276	NE3001 x Tengamine	F5	determinate
38.	U00-320280	NE3001 x Tengamine	F5	determinate
39.	U00-404041	NE3001 x HOE-149	F5	determinate
40.	U00-404046	NE3001 x LPL-718	F5	
41.	U00-411049	NE3001 x UP1C6-47	F5	Chl. Res.
42.	U00-420019	NE3297 x UP1C6-47	F5	
43.	U00-423034	NE3001 x UP1C6-47	F5	
44.	U00-424018	NE3001 x UP1C6-47	F5	Chl. Res. , determinate
45.	U00-425032	NE3297 x UP1C6-47	F5	Chl. Res.
46.	U00-426026	NE3001 x UP1C6-47	F5	
47.	U00-429025	NE3001 x U96-3640	F5	
48.	U00-429029	NE3001 x U96-3640	F5	determinate
49.	U00-432045	U96-1612 x NE3001	F5	determinate
50.	U00-433016	U96-1612 x NE3001	F5	determinate

PRELIMINARY TEST IIIB, 2002

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	Chlorosis Score Humboldt IA	Shattering Score Manhattan KS	PR Lafayette Race 4	PR Lafayette Race 7	Hard Seed %	PS Lafayette a %	P&SB n %
IA3010 (III)	PTTDYGrI	2.0	2.0	S	R	14	12	10
IA2052 (II)	WGBIYBfI	2.1	1.0	S	S	4	22	2
Macon (L)	WTTBIYBlI	3.1	2.0	S	S	12	16	2
NE3001	WGBSYBfD	2.8	2.0	R	R	0	2	2
Apex (HC94-1065)	PTBIYBlD	2.3	1.0	R	R	0	14	4
E00101	PTSDYBl+GrI	2.0	2.0	R	R	6	16	4
E00105	PGBDYLbfI	2.3	2.0	S	R	0	26	4
E00153	PGSDYLbfI	1.6	2.0	R	R	14	10	6
E00178	WTBIYBlI	2.5	2.0	R	R	4	12	0
E00257	PTBIYBrI	2.4	1.0	S	S	4	32	2
E00274	WGTIYBfI	2.4	1.0	R	R	4	18	4
E00294	PGBDYYI	2.1	1.0	S	S	0	18	0
E00306	WGBDYLbfI	1.8	3.0	S	S	0	18	2
E00308	WGBDYLbfI	3.0	2.0	S	S	8	4	0
HC98-71PR	WTBIYBlD	3.0	1.0	R	R	4	18	0
HC98-76PR	WTBIYBlD	2.5	1.0	H	H	0	10	0
HC99-27MB	WTTIYBlD	3.8	1.0	R	R	2	4	0
HC99-34PR	WTBIYBlD	2.6	1.0	S	S	2	18	2
HC99-665	PTTDYBlD	2.9	1.0	S	S	2	0	4
HC99-1108	WTTIYGrD	2.4	1.0	S	S	0	2	0
HC99-1334	WTTIYIbD	1.5	1.0	R	R	0	2	0
HC99-1503	WTBIYBlD	3.1	1.0	S	S	0	2	4
HC99-4792	WTTDYBrD	2.8	1.0	S	S	0	8	0
HC99-4826	WTTSYBlD	3.3	2.0	S	S	0	12	2
HC99-4837	P+WTBDYBrD	2.3	1.0	S	S	0	8	0
HC99-4919	WGTDYBfD	2.1	1.0	R	R	0	0	0
HS99-4256	PLtTSYIbI	3.1	2.0	H	H	0	4	0
HS99-4262	PLtTSYIbI	2.0	2.0	R	R	0	14	0
HS99-4468	PLtBIYIbI	3.5	1.0	S	S	0	16	4
HS0-3243	WGSDYIbI	2.5	2.0	R	R	6	12	0
HS0-3244	WLtBDYIbI	2.9	1.0	R	R	0	10	0
HS0-3246	WLtBDYIbI	3.3	1.0	R	R	0	4	2
HS0-3248	WLtSDYIbI	2.5	1.0	R	R	0	12	0
HS0-3259	WLtTDYIbI	2.6	1.0	R	R	0	8	4
HS0-3364	WTBIYLbr+IbI	2.4	1.0	S	R	0	4	0
U00-320260	WGBSYLbfD	2.6	2.0	S	S	0	14	10
U00-320276	WGBSYLbfD	2.0	2.0	S	S	6	0	0
U00-320280	WGBSYLbfD	2.4	2.0	S	S	8	4	4
U00-404041	WGBSYLbfD	1.5	2.0	S	S	0	6	8
U00-404046	WGBSYLbfD	2.8	2.0	S	S	0	8	2
U00-411049	WTBDYBrI	1.8	2.0	S	S	2	20	2
U00-420019	P+WGBIYLbfD	1.8	2.0	S	S	0	14	4
U00-423034	WTBDYBrI	1.6	2.0	S	S	2	28	8
U00-424018	PTBDYBrI	1.5	2.0	S	S	4	8	8
U00-425032	PSSDYLbfI	1.8	2.0	H	H	6	8	2
U00-426026	WTBDYBrI	1.9	2.0	S	S	0	34	4
U00-429025	WGBIYLbfI	2.5	2.0	S	S	0	4	2
U00-429029	WGBIYYD	2.6	2.0	S	S	4	14	4
U00-432045	P+WGBIYLbfD	2.5	3.0	S	S	4	16	8
U00-433016	WGBIYLbfD	3.0	2.0	S	S	2	12	6

PRELIMINARY TEST IIIB, 2002

REGIONAL SUMMARY

No. of Tests Strain	Yield 10 bu/a	Rank 10 No.	Maturity 9 Date	Lodging 10 Score	Plant Height 10 In.	Seed Size 10 g/100	Seed Quality 6 Score	Green Stem 2 Score	Composition Protein 4 %	Composition Oil 4 %
IA3010 (III)	62.1	2	9/25	1.3	28	15.8	1.9	2.0	39.0	19.1
IA2052 (II)	54.6	36	-4.7	1.9	34	15.7	2.0	2.5	40.3	19.5
Macon (L)	58.7	8	4.0	1.7	33	17.6	2.0	3.0	39.8	18.8
NE3001	58.3	12	-0.6	1.3	24	18.3	1.9	2.0	39.3	20.2
Apex (HC94-1065)	64.0	1	3.9	1.3	23	16.1	1.9	4.5	38.7	20.1
E00101	54.2	40	1.8	1.8	34	17.3	2.2	3.0	41.2	19.1
E00105	57.1	20	-2.0	1.8	34	14.9	2.0	1.0	39.3	20.0
E00153	54.9	35	1.9	2.1	38	15.9	1.8	3.0	40.0	19.3
E00178	59.7	5	2.5	2.1	39	16.3	1.8	3.5	40.5	19.4
E00257	55.0	34	4.1	1.6	37	17.2	2.0	3.0	41.1	19.3
E00274	55.8	30	2.4	1.8	32	15.4	2.2	4.0	40.8	19.0
E00294	51.0	50	4.0	2.3	38	15.9	2.2	4.5	41.2	18.5
E00306	51.2	49	-0.1	2.3	38	15.0	2.1	3.5	38.9	19.5
E00308	56.9	21	4.5	2.2	39	15.9	2.1	5.0	39.4	19.4
HC98-71PR	55.3	32	7.4	1.2	23	18.1	1.6	4.0	41.5	19.5
HC98-76PR	54.1	41	7.2	1.3	25	17.7	1.6	4.5	41.1	18.9
HC99-27MB	57.6	18	3.5	1.3	22	15.2	1.5	1.5	38.5	20.2
HC99-34PR	52.8	45	6.2	1.2	22	16.6	1.7	3.0	40.2	19.5
HC99-665	56.0	28	5.3	1.2	21	14.7	1.7	2.0	39.8	19.2
HC99-1108	58.3	12	3.3	1.4	22	16.3	1.8	3.5	38.1	20.4
HC99-1334	52.3	46	3.7	1.3	22	14.9	1.8	1.0	40.3	19.4
HC99-1503	56.4	27	4.1	1.2	22	17.5	1.8	3.0	38.4	20.4
HC99-4792	57.7	15	5.7	1.3	23	17.9	1.7	3.5	41.3	18.9
HC99-4826	57.7	15	3.2	1.4	23	17.9	1.8	2.5	40.4	19.8
HC99-4837	56.6	24	6.0	1.3	22	16.0	1.7	3.5	38.7	19.3
HC99-4919	53.4	42	6.3	1.3	21	14.2	1.7	1.0	40.2	19.1
HS99-4256	55.3	32	-2.3	2.0	34	17.2	1.8	1.0	41.8	19.4
HS99-4262	56.5	25	0.8	1.8	37	16.3	1.9	1.5	40.6	19.1
HS99-4468	58.6	9	-2.6	1.5	33	15.8	1.9	2.0	40.6	20.0
HS0-3243	58.9	7	1.1	1.6	32	14.8	1.7	2.5	41.3	19.3
HS0-3244	59.5	6	2.8	1.7	32	15.1	2.0	3.0	40.7	19.2
HS0-3246	61.9	3	2.5	1.8	32	15.2	1.9	2.0	40.5	19.5
HS0-3248	60.8	4	4.1	1.6	32	15.7	2.0	4.0	40.9	18.7
HS0-3259	58.5	10	3.2	1.7	31	16.6	1.9	3.5	40.9	18.6
HS0-3364	58.5	10	5.7	1.5	32	15.5	1.6	4.0	39.2	19.4
U00-320260	53.4	42	-3.0	1.3	24	17.8	2.2	2.0	38.6	20.4
U00-320276	56.8	22	-1.5	1.4	25	18.5	2.3	2.0	38.4	20.8
U00-320280	56.8	22	-3.4	1.4	24	17.1	2.1	2.5	37.8	20.8
U00-404041	54.5	37	0.6	1.2	27	18.5	2.0	3.5	40.5	21.2
U00-404046	57.7	15	-0.6	1.3	25	19.0	2.2	3.5	39.3	20.5
U00-411049	54.5	37	1.0	1.7	37	17.5	1.9	4.5	41.1	18.5
U00-420019	56.5	25	0.6	1.4	28	18.2	2.1	2.0	41.5	19.0
U00-423034	53.2	44	0.5	1.7	37	17.6	2.2	4.5	41.8	18.6
U00-424018	51.6	48	0.6	2.0	35	16.9	2.0	4.0	41.6	19.2
U00-425032	52.2	47	2.4	2.0	34	19.1	2.3	4.5	40.5	19.2
U00-426026	55.9	29	1.4	1.8	37	17.9	2.2	5.0	41.6	18.3
U00-429025	55.4	31	0.0	1.8	29	20.9	2.3	2.0	42.8	19.3
U00-429029	58.2	14	0.9	1.3	26	19.6	2.1	2.5	37.1	21.0
U00-432045	54.5	37	3.6	1.5	25	21.8	2.3	3.0	41.6	18.7
U00-433016	57.5	19	4.7	1.4	28	20.4	2.1	2.5	40.4	18.7

128.0 Days After Planting

PRELIMINARY TEST IIIB, 2002

YIELD (bu/a)

Strain	Mean 10 Tests	Ames IA	Carlisle IA	Urbana IL	Lafayette IN	Manhattan KS
IA3010 (III)	62.1	76.7	61.7	47.9	60.6	75.3
IA2052 (II)	54.6	68.9	64.5	46.3	63.2	54.1
Macon (L)	58.7	65.8	60.7	53.8	55.7	60.3
NE3001	58.3	72.4	69.0	47.1	65.3	45.9
Apex (HC94-1065)	64.0	76.7	70.6	51.7	60.3	73.4
E00101	54.2	67.6	56.6	48.0	54.3	64.6
E00105	57.1	61.8	61.8	50.0	58.7	67.1
E00153	54.9	58.1	58.2	53.3	60.8	72.5
E00178	59.7	70.4	66.1	47.9	58.1	61.1
E00257	55.0	53.6	54.8	48.3	59.2	58.0
E00274	55.8	63.2	57.7	48.9	64.1	55.8
E00294	51.0	52.2	53.7	46.2	59.1	40.4
E00306	51.2	56.3	47.4	52.6	64.4	51.0
E00308	56.9	64.8	63.0	52.6	62.4	57.6
HC98-71PR	55.3	54.9	57.4	51.1	61.0	64.9
HC98-76PR	54.1	57.4	51.9	51.1	66.8	52.9
HC99-27MB	57.6	69.3	67.7	48.1	58.2	63.5
HC99-34PR	52.8	58.6	60.5	47.9	64.1	46.5
HC99-665	56.0	59.0	54.1	49.0	59.8	68.9
HC99-1108	58.3	70.0	64.3	45.4	62.5	58.3
HC99-1334	52.3	51.0	54.7	54.4	61.5	43.1
HC99-1503	56.4	60.8	62.8	52.0	56.8	70.7
HC99-4792	57.7	56.0	67.0	44.8	59.4	70.9
HC99-4826	57.7	71.5	58.2	56.0	55.0	62.4
HC99-4837	56.6	66.2	64.5	42.1	56.0	60.0
HC99-4919	53.4	42.8	51.0	45.9	55.2	62.7
HS99-4256	55.3	68.6	68.0	48.4	59.7	57.1
HS99-4262	56.5	65.8	66.3	48.6	69.4	57.5
HS99-4468	58.6	72.6	65.4	52.9	59.5	62.5
HS0-3243	58.9	76.0	70.2	53.1	55.2	57.6
HS0-3244	59.5	71.2	64.5	57.8	54.0	55.1
HS0-3246	61.9	72.8	69.7	60.2	61.4	62.1
HS0-3248	60.8	61.8	66.7	52.1	65.9	69.3
HS0-3259	58.5	70.0	66.2	51.9	51.8	59.7
HS0-3364	58.5	65.8	66.1	54.1	58.6	64.6
U00-320260	53.4	65.5	57.0	42.4	60.3	59.8
U00-320276	56.8	68.9	70.8	49.2	52.8	59.3
U00-320280	56.8	68.6	59.6	48.5	59.8	62.6
U00-404041	54.5	66.0	61.1	48.7	60.8	60.2
U00-404046	57.7	66.7	62.8	47.1	58.3	51.5
U00-411049	54.5	58.8	64.3	46.9	58.1	62.5
U00-420019	56.5	64.9	58.3	44.6	56.8	52.7
U00-423034	53.2	59.9	60.6	37.9	53.0	64.6
U00-424018	51.6	64.7	54.7	44.9	59.3	54.3
U00-425032	52.2	61.9	50.1	47.1	61.3	44.8
U00-426026	55.9	62.3	61.9	45.7	58.6	73.1
U00-429025	55.4	68.4	64.4	47.6	58.9	48.5
U00-429029	58.2	67.7	65.9	53.9	63.3	53.5
U00-432045	54.5	64.5	60.3	41.2	55.6	61.3
U00-433016	57.5	60.3	59.5	54.1	64.4	58.6
C.V. (%)		6.5	6.7	9.6	8.4	7.2
L.S.D. (5%)		8.4	8.3	9.5	10.1	8.6
Row Sp. (In.)		27	27	30	24	30
Rows/Plot		4	4	4	4	4
Reps		2	2	2	2	2

PRELIMINARY TEST IIIB, 2002

YIELD (bu/a)

Strain	Kingdom City MO	Palmyra NE	Tekamah NE	Hoytville OH	So. Charleston OH
IA3010 (III)	33.3	74.7	61.2	49.2	80.7
IA2052 (II)	21.2	61.8	57.7	54.1	54.5
Macon (L)	40.9	73.1	54.3	56.9	65.1
NE3001	29.6	72.7	66.6	58.6	55.9
Apex (HC94-1065)	37.4	76.4	64.3	67.0	62.1
E00101	32.4	70.7	56.3	36.8	54.5
E00105	24.8	70.8	65.6	48.7	61.8
E00153	17.0	76.0	59.7	36.2	56.8
E00178	40.8	64.9	59.9	58.7	68.8
E00257	36.3	68.5	57.0	55.8	58.1
E00274	34.4	62.9	59.0	51.8	60.7
E00294	23.8	58.9	49.9	60.8	65.2
E00306	20.3	63.4	47.8	54.0	55.0
E00308	39.7	65.9	47.6	55.3	60.5
HC98-71PR	34.3	64.6	51.3	47.6	65.7
HC98-76PR	36.8	58.8	52.4	50.6	62.2
HC99-27MB	35.5	60.4	58.3	50.0	65.3
HC99-34PR	30.7	65.6	55.3	41.9	56.9
HC99-665	28.4	72.9	59.6	41.9	66.7
HC99-1108	32.1	66.4	56.3	53.1	74.3
HC99-1334	37.7	51.6	54.1	52.2	62.9
HC99-1503	28.6	67.0	53.2	51.8	60.6
HC99-4792	42.5	62.7	57.1	50.7	66.0
HC99-4826	33.9	70.2	60.7	50.6	58.2
HC99-4837	35.6	72.8	60.4	47.4	60.7
HC99-4919	38.4	66.1	60.9	47.4	63.7
HS99-4256	20.5	71.4	58.3	49.6	51.0
HS99-4262	24.2	66.7	55.6	53.0	57.5
HS99-4468	29.7	65.9	62.0	57.9	57.5
HS0-3243	23.7	72.2	60.0	52.0	69.1
HS0-3244	34.1	77.7	58.8	58.1	63.3
HS0-3246	33.2	69.9	59.9	57.5	72.3
HS0-3248	29.4	76.1	54.0	56.1	76.4
HS0-3259	28.1	75.4	58.9	59.1	63.5
HS0-3364	36.6	76.5	53.5	47.5	61.6
U00-320260	28.1	62.0	59.9	48.7	50.1
U00-320276	25.2	61.8	65.6	48.8	65.2
U00-320280	28.1	69.3	64.9	49.4	57.4
U00-404041	29.0	59.5	57.1	46.3	56.5
U00-404046	32.7	74.7	65.6	60.5	57.4
U00-411049	32.0	62.3	57.1	51.0	52.1
U00-420019	36.7	69.7	58.7	52.2	70.9
U00-423034	29.7	61.2	57.6	48.6	59.0
U00-424018	30.2	66.8	52.8	37.7	50.1
U00-425032	30.0	61.4	53.0	47.2	65.4
U00-426026	29.5	64.2	57.0	50.8	56.2
U00-429025	26.5	63.2	60.8	54.0	61.4
U00-429029	29.3	71.6	65.4	57.3	54.2
U00-432045	27.4	64.9	59.5	50.4	59.7
U00-433016	34.5	69.3	58.0	55.5	60.3
C.V. (%)	6.2	7.3	6.2	5.5	9.7
L.S.D. (5%)	3.3	9.9	7.3	4.8	11.9
Row Sp. (In.)	30	30	30	7.5	15
Rows/Plot	4	4	4	8	6
Reps	2	2	2	2	2

PRELIMINARY TEST IIIB, 2002

YIELD RANK

Strain	Yield Rank	Ames IA	Carlisle IA	Urbana IL	Lafayette IN	Manhattan KS
IA3010 (III)	2	1	27	31	19	1
IA2052 (II)	36	13	16	39	10	39
Macon (L)	8	23	29	8	41	23
NE3001	12	6	5	35	4	47
Apex (HC94-1065)	1	1	2	17	20	2
E00101	40	19	41	30	46	11
E00105	20	34	26	20	31	9
E00153	35	42	36	9	17	4
E00178	5	9	12	31	36	22
E00257	34	47	42	28	28	31
E00274	30	31	38	23	7	36
E00294	50	48	46	40	29	50
E00306	49	44	50	12	5	44
E00308	21	28	22	12	12	32
HC98-71PR	32	46	39	18	16	10
HC98-76PR	41	43	47	18	2	41
HC99-27MB	18	12	7	29	35	14
HC99-34PR	45	41	31	31	7	46
HC99-665	28	39	45	22	22	8
HC99-1108	12	10	20	43	11	30
HC99-1334	46	49	43	4	13	49
HC99-1503	27	36	23	15	38	6
HC99-4792	15	45	8	45	26	5
HC99-4826	15	7	36	3	45	19
HC99-4837	24	21	16	48	40	25
HC99-4919	42	50	48	41	43	15
HS99-4256	32	15	6	27	24	35
HS99-4262	25	23	10	25	1	34
HS99-4468	9	5	15	11	25	17
HS0-3243	7	3	3	10	43	32
HS0-3244	6	8	16	2	47	37
HS0-3246	3	4	4	1	14	20
HS0-3248	4	34	9	14	3	7
HS0-3259	10	10	11	16	50	27
HS0-3364	10	23	12	5	32	11
U00-320260	42	26	40	47	20	26
U00-320276	22	13	1	21	49	28
U00-320280	22	15	33	26	22	16
U00-404041	37	22	28	24	17	24
U00-404046	15	20	23	35	34	43
U00-411049	37	40	20	38	36	17
U00-420019	25	27	35	46	38	42
U00-423034	44	38	30	50	48	11
U00-424018	48	29	43	44	27	38
U00-425032	47	33	49	35	15	48
U00-426026	29	32	25	42	32	3
U00-429025	31	17	19	34	30	45
U00-429029	14	18	14	7	9	40
U00-432045	37	30	32	49	42	21
U00-433016	19	37	34	5	5	29

PRELIMINARY TEST IIIB, 2002

YIELD RANK

Strain	Kingdom City MO	Palmyra NE	Tekamah NE	Hoytville OH	So. Charleston OH
IA3010 (III)	19	7	9	35	1
IA2052 (II)	47	42	28	16	44
Macon (L)	2	9	39	11	15
NE3001	30	12	1	6	42
Apex (HC94-1065)	7	3	7	1	21
E00101	22	17	35	49	44
E00105	43	16	3	37	22
E00153	50	5	18	50	39
E00178	3	32	16	5	7
E00257	11	23	33	13	33
E00274	15	38	21	24	25
E00294	45	48	48	2	13
E00306	49	36	49	17	43
E00308	4	29	50	15	28
HC98-71PR	16	34	47	40	10
HC98-76PR	8	49	46	29	20
HC99-27MB	13	46	25	32	12
HC99-34PR	25	31	38	46	38
HC99-665	36	10	19	46	8
HC99-1108	23	27	35	19	3
HC99-1334	6	50	40	21	19
HC99-1503	35	24	43	24	27
HC99-4792	1	39	31	28	9
HC99-4826	18	18	12	29	32
HC99-4837	12	11	13	42	25
HC99-4919	5	28	10	42	16
HS99-4256	48	15	25	33	48
HS99-4262	44	26	37	20	34
HS99-4468	28	29	8	8	34
HS0-3243	46	13	14	23	6
HS0-3244	17	1	23	7	18
HS0-3246	20	19	16	9	4
HS0-3248	32	4	41	12	2
HS0-3259	37	6	22	4	17
HS0-3364	10	2	42	41	23
U00-320260	37	41	16	37	49
U00-320276	42	42	3	36	13
U00-320280	37	21	6	34	36
U00-404041	34	47	31	45	40
U00-404046	21	8	3	3	36
U00-411049	24	40	31	26	47
U00-420019	9	20	24	21	5
U00-423034	29	45	29	39	31
U00-424018	26	25	45	48	49
U00-425032	27	44	44	44	11
U00-426026	31	35	33	27	41
U00-429025	41	37	11	17	24
U00-429029	33	14	5	10	46
U00-432045	40	32	20	31	30
U00-433016	14	21	27	14	29

PRELIMINARY TEST IIIB, 2002

MATURITY (date)

Strain	Mean 9 Tests	Ames IA	Carlisle IA	Urbana IL	Lafayette IN	Manhattan KS
IA3010 (III)	9/25	9/23		9/29	10/3	9/24
IA2052 (II)	-4.7	-6		-9	-2	5
Macon (L)	4.0	7		2	0	7
NE3001	-0.6	-2		-3	0	8
Apex (HC94-1065)	3.9	6		0	-2	7
E00101	1.8	4		1	-5	9
E00105	-2.0	3		-9	-3	2
E00153	1.9	6		2	-2	8
E00178	2.5	1		3	3	7
E00257	4.1	10		-1	1	7
E00274	2.4	7		1	-2	2
E00294	4.0	10		1	-1	6
E00306	-0.1	-1		-1	-1	2
E00308	4.5	7		0	-3	4
HC98-71PR	7.4	13		2	2	10
HC98-76PR	7.2	14		2	2	11
HC99-27MB	3.5	7		0	-5	7
HC99-34PR	6.2	7		2	1	11
HC99-665	5.3	7		0	-1	9
HC99-1108	3.3	3		1	-2	9
HC99-1334	3.7	6		1	-3	10
HC99-1503	4.1	10		-2	-1	6
HC99-4792	5.7	10		1	-2	8
HC99-4826	3.2	5		1	-1	7
HC99-4837	6.0	6		0	0	11
HC99-4919	6.3	14		5	-1	9
HS99-4256	-2.3	-3		-2	-2	0
HS99-4262	0.8	4		-1	0	4
HS99-4468	-2.6	-6		-3	1	0
HS0-3243	1.1	2		1	1	2
HS0-3244	2.8	4		2	-4	7
HS0-3246	2.5	6		1	-7	6
HS0-3248	4.1	9		2	1	6
HS0-3259	3.2	5		2	-1	3
HS0-3364	5.7	7		3	1	9
U00-320260	-3.0	-5		-7	3	2
U00-320276	-1.5	-1		-4	-1	3
U00-320280	-3.4	-6		-10	-2	1
U00-404041	0.6	2		-2	1	4
U00-404046	-0.6	-1		-1	-2	4
U00-411049	1.0	4		-1	0	7
U00-420019	0.6	0		-1	-2	3
U00-423034	0.5	3		-1	-5	6
U00-424018	0.6	0		-1	0	4
U00-425032	2.4	4		0	2	6
U00-426026	1.4	4		1	-3	6
U00-429025	0.0	-2		1	0	2
U00-429029	0.9	2		-1	1	7
U00-432045	3.6	8		0	-1	9
U00-433016	4.7	9		1	2	8
Date Planted	5/20	5/4	5/8	6/3	6/3	5/9
Days to Mature	128	142		118	122	138

PRELIMINARY TEST IIIB, 2002

MATURITY (date)

Strain	Kingdom City MO	Palmyra NE	Tekamah NE	Hoytville OH	So. Charles-ton OH
IA3010 (III)	9/19	9/28	10/3	9/30	9/13
IA2052 (II)	-8	-1	-2	-9	-10
Macon (L)	4	4	3	3	6
NE3001	-4	3	0	-3	-4
Apex (HC94-1065)	6	8	2	4	4
E00101	1	5	3	-1	-1
E00105	-2	-2	-1	-2	-4
E00153	-2	6	3	-3	0
E00178	0	11	3	-3	-2
E00257	6	1	0	6	7
E00274	5	2	0	1	6
E00294	5	4	2	4	5
E00306	1	3	0	-0	-3
E00308	7	7	2	7	9
HC98-71PR	8	14	.	10	8
HC98-76PR	7	13	4	7	5
HC99-27MB	6	4	1	5	7
HC99-34PR	6	13	4	7	6
HC99-665	7	9	4	5	8
HC99-1108	6	9	4	-1	1
HC99-1334	1	12	.	3	4
HC99-1503	6	3	1	7	7
HC99-4792	8	12	.	7	8
HC99-4826	0	7	4	4	1
HC99-4837	6	12	4	8	7
HC99-4919	6	10	.	5	8
HS99-4256	-6	-1	1	-3	-5
HS99-4262	-5	2	2	1	0
HS99-4468	-6	-1	-2	-2	-5
HS0-3243	0	2	0	2	0
HS0-3244	-1	5	2	7	4
HS0-3246	-1	5	2	4	7
HS0-3248	0	6	1	5	7
HS0-3259	1	5	2	6	6
HS0-3364	11	8	2	6	5
U00-320260	-8	1	-3	-4	-6
U00-320276	-6	3	-1	-2	-4
U00-320280	-2	1	-3	-3	-6
U00-404041	-1	4	-2	0	-1
U00-404046	-1	3	-2	-1	-4
U00-411049	-1	2	1	-2	-1
U00-420019	-2	4	0	2	2
U00-423034	-1	1	1	3	-2
U00-424018	-1	3	2	-1	0
U00-425032	-1	4	0	1	6
U00-426026	-1	5	1	-0	0
U00-429025	-1	2	0	2	-3
U00-429029	-3	4	-1	-0	-1
U00-432045	0	8	2	4	2
U00-433016	5	8	2	4	4
Date Planted	5/23	5/30	6/2	6/1	5/1
Days to Mature	119	121	123	121	135

PRELIMINARY TEST IIIB, 2002

LODGING (score)

Strain	Mean 10 Tests	Ames IA	Carlisle IA	Urbana IL	Lafayette IN	Manhattan KS
IA3010 (III)	1.3	2.0	2.0	1.0	1.0	1.5
IA2052 (II)	1.9	2.0	3.5	1.0	1.0	3.5
Macon (L)	1.7	2.0	3.5	1.0	1.5	2.0
NE3001	1.3	2.0	2.3	1.0	1.3	1.0
Apex (HC94-1065)	1.3	2.0	2.0	1.0	2.0	1.0
E00101	1.8	2.5	3.0	1.3	2.5	2.0
E00105	1.8	2.3	2.8	1.0	1.3	3.5
E00153	2.1	3.0	4.0	1.0	2.8	2.5
E00178	2.1	2.5	3.0	1.3	2.3	3.0
E00257	1.6	2.5	2.8	1.0	1.0	3.0
E00274	1.8	2.5	3.0	1.3	2.0	2.5
E00294	2.3	3.0	3.8	1.5	1.3	3.5
E00306	2.3	3.0	4.3	1.5	2.0	3.5
E00308	2.2	3.0	3.5	1.3	2.3	3.0
HC98-71PR	1.2	2.0	1.5	1.0	1.5	1.0
HC98-76PR	1.3	2.0	1.5	1.0	2.0	1.0
HC99-27MB	1.3	2.0	2.0	1.0	1.3	1.0
HC99-34PR	1.2	2.3	1.5	1.0	1.3	1.0
HC99-665	1.2	2.0	1.8	1.0	1.3	1.0
HC99-1108	1.4	2.0	1.5	1.0	2.3	1.0
HC99-1334	1.3	2.0	1.5	1.0	2.0	1.0
HC99-1503	1.2	2.0	1.8	1.0	1.0	1.0
HC99-4792	1.3	2.3	1.8	1.0	1.3	1.0
HC99-4826	1.4	2.3	2.0	1.0	2.5	1.0
HC99-4837	1.3	2.3	1.8	1.0	1.3	1.0
HC99-4919	1.3	2.0	2.0	1.0	1.8	1.0
HS99-4256	2.0	2.8	3.8	1.3	1.3	3.0
HS99-4262	1.8	2.5	3.0	1.0	1.3	2.5
HS99-4468	1.5	2.0	2.8	1.0	1.0	2.0
HS0-3243	1.6	2.0	3.0	1.0	1.0	2.5
HS0-3244	1.7	2.3	3.3	1.0	1.8	2.5
HS0-3246	1.8	2.3	3.0	1.0	1.3	4.0
HS0-3248	1.6	2.0	3.0	1.0	1.3	2.5
HS0-3259	1.7	2.0	2.8	1.0	1.5	3.0
HS0-3364	1.5	2.3	2.8	1.0	1.0	2.0
U00-320260	1.3	2.0	2.3	1.0	1.5	1.0
U00-320276	1.4	2.0	2.0	1.0	2.0	1.5
U00-320280	1.4	2.0	2.5	1.0	1.0	1.5
U00-404041	1.2	2.0	2.0	1.0	1.0	1.0
U00-404046	1.3	2.0	2.3	1.0	1.0	1.0
U00-411049	1.7	2.5	3.3	1.3	1.0	2.0
U00-420019	1.4	2.3	2.5	1.0	1.0	2.0
U00-423034	1.7	2.5	3.0	1.0	1.5	2.5
U00-424018	2.0	3.0	4.0	1.0	2.3	3.5
U00-425032	2.0	2.8	3.5	1.0	1.3	3.5
U00-426026	1.8	2.5	3.0	1.0	1.3	3.0
U00-429025	1.8	2.3	3.0	1.0	1.8	3.0
U00-429029	1.3	2.0	2.3	1.0	1.5	1.0
U00-432045	1.5	2.0	2.8	1.0	1.0	1.5
U00-433016	1.4	2.0	2.5	1.0	1.3	1.0

PRELIMINARY TEST IIIB, 2002

LODGING (score)

Strain	Kingdom City MO	Palmyra NE	Tekamah NE	Hoytville OH	So. Charleston OH
IA3010 (III)	1.0	1.0	1.0	1.4	1.0
IA2052 (II)	1.0	2.0	1.5	1.5	1.6
Macon (L)	1.0	1.0	2.0	1.5	1.2
NE3001	1.0	1.0	1.5	1.3	1.1
Apex (HC94-1065)	1.0	1.0	1.0	1.4	1.0
E00101	1.0	1.0	2.0	1.3	1.4
E00105	1.0	1.5	2.0	1.4	1.4
E00153	1.0	1.0	2.0	1.6	1.9
E00178	1.0	3.0	2.0	1.3	1.6
E00257	1.0	1.0	1.5	1.4	1.2
E00274	1.0	1.5	1.5	1.3	1.0
E00294	1.0	3.5	2.0	1.6	1.5
E00306	1.0	2.5	2.0	1.6	1.6
E00308	1.0	3.0	1.5	1.5	2.2
HC98-71PR	1.0	1.0	1.0	1.3	1.1
HC98-76PR	1.0	1.0	1.0	1.4	1.0
HC99-27MB	1.0	1.5	1.0	1.4	0.9
HC99-34PR	1.0	1.0	1.0	1.1	1.0
HC99-665	1.0	1.0	1.0	1.0	1.0
HC99-1108	1.0	1.5	1.0	1.4	1.1
HC99-1334	1.0	1.0	1.0	1.4	1.0
HC99-1503	1.0	1.0	1.5	1.3	0.9
HC99-4792	1.0	1.5	1.0	1.1	1.1
HC99-4826	1.0	1.0	1.0	1.4	1.0
HC99-4837	1.0	1.0	1.5	1.5	1.0
HC99-4919	1.0	1.0	1.0	1.5	1.0
HS99-4256	1.0	2.5	2.0	1.1	1.6
HS99-4262	1.0	2.0	2.0	1.0	1.4
HS99-4468	1.0	1.0	1.5	1.3	1.1
HS0-3243	1.0	1.0	2.0	1.4	1.2
HS0-3244	1.0	1.0	1.5	1.1	1.7
HS0-3246	1.0	1.0	1.5	1.3	1.6
HS0-3248	1.0	1.0	2.0	1.3	1.1
HS0-3259	1.0	1.0	2.0	1.3	1.4
HS0-3364	1.0	1.0	2.0	1.1	1.0
U00-320260	1.0	1.0	1.0	1.4	1.1
U00-320276	1.0	1.0	1.0	1.2	1.2
U00-320280	1.0	1.0	1.0	1.4	1.3
U00-404041	1.0	1.0	1.0	1.2	1.0
U00-404046	1.0	1.0	1.0	1.4	1.1
U00-411049	1.0	1.0	2.5	1.5	1.3
U00-420019	1.0	1.0	1.0	1.3	1.1
U00-423034	1.0	1.0	2.0	1.2	1.2
U00-424018	1.0	1.0	2.5	1.0	1.1
U00-425032	1.0	1.5	2.0	1.3	1.8
U00-426026	1.0	1.0	2.0	1.5	1.3
U00-429025	1.0	1.0	2.0	1.5	1.1
U00-429029	1.0	1.0	1.0	1.6	1.0
U00-432045	1.0	1.0	1.5	1.4	1.9
U00-433016	1.0	1.0	2.0	1.3	1.2

PRELIMINARY TEST IIIB, 2002

PLANT HEIGHT (inches)

Strain	Mean 10 Tests	Ames IA	Carlisle IA	Urbana IL	Lafayette IN	Manhattan KS
IA3010 (III)	28	25	35	26	40	32
IA2052 (II)	34	34	43	31	34	43
Macon (L)	33	37	43	32	36	36
NE3001	24	24	31	22	38	19
Apex (HC94-1065)	23	19	26	23	41	19
E00101	34	40	48	28	37	35
E00105	34	33	38	33	36	44
E00153	38	36	50	37	41	47
E00178	39	40	48	36	40	46
E00257	37	40	46	34	35	44
E00274	32	33	38	29	40	31
E00294	38	43	49	34	38	42
E00306	38	38	45	36	36	43
E00308	39	42	48	39	40	42
HC98-71PR	23	18	25	22	38	18
HC98-76PR	25	18	33	29	38	22
HC99-27MB	22	19	24	20	35	16
HC99-34PR	22	19	24	22	36	18
HC99-665	21	16	23	23	36	19
HC99-1108	22	19	27	23	37	16
HC99-1334	22	18	24	22	36	22
HC99-1503	22	19	27	22	38	18
HC99-4792	23	22	28	24	39	19
HC99-4826	23	20	23	23	42	21
HC99-4837	22	21	24	24	38	20
HC99-4919	21	16	23	23	40	16
HS99-4256	34	37	41	30	39	39
HS99-4262	37	38	48	31	37	42
HS99-4468	33	36	40	29	38	38
HS0-3243	32	31	37	28	37	36
HS0-3244	32	32	39	31	35	32
HS0-3246	32	33	37	32	36	36
HS0-3248	32	32	42	28	33	37
HS0-3259	31	32	39	29	30	38
HS0-3364	32	33	41	30	32	31
U00-320260	24	22	30	19	46	19
U00-320276	25	24	33	21	39	24
U00-320280	24	23	29	24	34	26
U00-404041	27	25	36	26	42	23
U00-404046	25	22	30	22	39	26
U00-411049	37	41	48	34	38	40
U00-420019	28	25	36	24	34	28
U00-423034	37	38	48	33	36	43
U00-424018	35	35	46	32	41	37
U00-425032	34	33	49	29	38	35
U00-426026	37	37	48	32	36	43
U00-429025	29	32	36	29	36	31
U00-429029	26	24	32	27	40	26
U00-432045	25	20	27	23	38	23
U00-433016	28	32	35	26	39	24

PRELIMINARY TEST IIIB, 2002

PLANT HEIGHT (inches)

Strain	Kingdom City MO	Palmyra NE	Tekamah NE	Hoytville OH	So. Charleston OH
IA3010 (III)	17	24	34	23	29
IA2052 (II)	23	33	40	27	31
Macon (L)	20	28	37	32	32
NE3001	15	22	28	25	21
Apex (HC94-1065)	16	23	25	20	23
E00101	24	32	37	26	36
E00105	22	35	45	25	31
E00153	20	39	45	29	36
E00178	25	39	46	32	35
E00257	26	33	46	30	37
E00274	20	29	39	30	30
E00294	28	35	43	34	37
E00306	28	38	46	32	35
E00308	28	39	48	27	39
HC98-71PR	16	23	24	21	22
HC98-76PR	15	21	26	24	22
HC99-27MB	15	20	24	21	23
HC99-34PR	16	23	27	19	20
HC99-665	15	21	21	16	23
HC99-1108	13	22	24	23	18
HC99-1334	13	20	25	22	22
HC99-1503	14	21	24	20	22
HC99-4792	15	21	26	21	18
HC99-4826	15	21	26	15	22
HC99-4837	13	19	22	18	19
HC99-4919	13	19	25	17	21
HS99-4256	20	33	41	34	31
HS99-4262	24	36	43	32	36
HS99-4468	23	28	41	32	29
HS0-3243	22	31	38	27	31
HS0-3244	17	33	39	30	33
HS0-3246	18	29	39	28	35
HS0-3248	18	32	39	28	35
HS0-3259	21	32	35	26	33
HS0-3364	24	32	38	27	32
U00-320260	13	19	29	20	19
U00-320276	13	21	30	23	22
U00-320280	16	23	27	21	20
U00-404041	18	25	32	22	19
U00-404046	14	21	27	23	21
U00-411049	30	34	44	29	33
U00-420019	21	25	34	26	27
U00-423034	28	33	46	32	36
U00-424018	23	30	43	29	31
U00-425032	25	28	39	30	36
U00-426026	27	35	45	30	35
U00-429025	17	25	34	22	29
U00-429029	17	23	31	22	23
U00-432045	17	23	31	24	21
U00-433016	17	23	32	23	26

PRELIMINARY TEST IIIB, 2002

SEED SIZE (g/100)

Strain	Mean 10 Tests	Ames IA	Carlisle IA	Urbana IL	Lafayette IN	Manhattan KS
IA3010 (III)	15.8	15.1	15.8	18.6	14.6	15.9
IA2052 (II)	15.7	15.6	15.3	17.1	15.8	17.3
Macon (L)	17.6	20.7	17.1	20.3	18.0	19.0
NE3001	18.3	19.8	18.8	20.0	18.3	20.2
Apex (HC94-1065)	16.1	16.9	15.4	18.2	16.1	16.5
E00101	17.3	18.7	17.6	18.5	17.1	18.1
E00105	14.9	16.5	14.2	16.4	15.7	15.5
E00153	15.9	16.6	16.3	16.7	17.3	17.3
E00178	16.3	16.9	15.2	18.8	15.6	16.2
E00257	17.2	17.2	16.6	18.9	16.7	18.1
E00274	15.4	19.1	17.3	13.3	12.8	14.4
E00294	15.9	16.9	15.2	17.4	16.7	15.8
E00306	15.0	14.9	14.4	17.5	14.0	15.0
E00308	15.9	17.7	15.9	17.5	15.2	17.0
HC98-71PR	18.1	19.1	16.8	20.2	19.0	19.5
HC98-76PR	17.7	19.5	17.3	19.9	18.8	17.6
HC99-27MB	15.2	16.0	15.4	16.2	15.1	17.5
HC99-34PR	16.6	17.4	15.0	19.8	18.1	18.5
HC99-665	14.7	14.5	13.5	17.2	15.0	15.9
HC99-1108	16.3	19.2	15.8	17.4	16.5	16.3
HC99-1334	14.9	17.2	14.7	15.1	15.1	14.6
HC99-1503	17.5	20.2	18.0	18.9	16.3	17.3
HC99-4792	17.9	20.1	17.3	20.3	17.4	18.6
HC99-4826	17.9	19.1	16.1	20.8	17.7	19.2
HC99-4837	16.0	17.1	15.1	17.6	17.2	17.0
HC99-4919	14.2	15.4	13.8	15.9	12.9	15.2
HS99-4256	17.2	18.4	18.0	19.0	16.9	17.5
HS99-4262	16.3	19.4	17.6	18.5	15.2	16.0
HS99-4468	15.8	17.5	15.0	17.5	15.7	15.2
HS0-3243	14.8	16.0	14.4	17.2	14.7	14.2
HS0-3244	15.1	16.7	14.7	17.6	14.3	14.0
HS0-3246	15.2	17.0	15.0	17.0	13.8	16.5
HS0-3248	15.7	17.8	14.9	17.8	15.1	16.2
HS0-3259	16.6	18.5	15.7	18.8	16.9	16.7
HS0-3364	15.5	16.5	15.3	16.0	15.1	15.5
U00-320260	17.8	18.3	16.7	19.8	18.4	21.1
U00-320276	18.5	19.0	18.8	19.4	18.6	22.1
U00-320280	17.1	18.1	17.1	16.9	17.8	19.0
U00-404041	18.5	19.4	18.4	19.4	18.4	19.1
U00-404046	19.0	20.2	19.0	20.7	19.6	20.3
U00-411049	17.5	19.3	17.7	20.2	16.9	16.6
U00-420019	18.2	18.8	17.4	19.9	19.7	17.6
U00-423034	17.6	19.3	17.7	19.1	17.0	16.3
U00-424018	16.9	17.3	16.4	18.0	16.7	16.8
U00-425032	19.1	18.6	20.7	20.2	21.4	19.7
U00-426026	17.9	19.2	17.7	20.4	17.4	16.0
U00-429025	20.9	21.8	19.8	24.8	21.6	20.6
U00-429029	19.6	21.2	20.1	20.1	20.8	21.1
U00-432045	21.8	23.2	21.9	23.6	22.1	23.0
U00-433016	20.4	21.1	20.9	22.2	19.4	22.9

PRELIMINARY TEST IIIB, 2002

SEED SIZE (g/100)

Strain	Kingdom City MO	Palmyra NE	Tekamah NE	Hoytville OH	So. Charleston OH
IA3010 (III)	17.0	17.8	16.0	12.8	14.3
IA2052 (II)	13.0	18.4	15.8	14.8	13.8
Macon (L)	15.0	18.9	17.4	13.5	15.9
NE3001	17.0	21.6	16.2	15.8	15.4
Apex (HC94-1065)		17.6	14.9	13.7	15.2
E00101	18.0	18.4	17.7	13.2	15.3
E00105	13.0	18.0	15.8	11.8	11.9
E00153	14.0	17.1	16.2	13.1	14.5
E00178	19.0	18.1	16.5	13.0	13.8
E00257	19.0	19.6	16.8	14.2	15.3
E00274	15.0	17.4	13.9	14.2	16.4
E00294	14.0	16.8	16.4	14.5	15.3
E00306	13.0	17.3	15.3	14.0	14.6
E00308	15.0	17.7	14.0	13.8	15.3
HC98-71PR	19.0	18.6	16.5	14.7	17.8
HC98-76PR	17.0	18.5	16.0	15.4	16.8
HC99-27MB	14.0	15.2	15.8	12.3	14.0
HC99-34PR	14.0	19.1	16.2	12.5	15.1
HC99-665	15.0	16.6	14.4	12.2	13.0
HC99-1108	19.0	15.7	14.6	12.4	15.8
HC99-1334	15.0	15.6	14.9	13.0	14.2
HC99-1503	17.0	18.9	15.4	15.2	17.5
HC99-4792	18.0	19.2	16.3	14.5	17.1
HC99-4826	18.0	19.3	17.1	15.3	16.7
HC99-4837	16.0	17.7	14.0	13.5	14.9
HC99-4919	15.0	14.7	13.6	12.5	13.4
HS99-4256	18.0	18.8	16.8	14.6	14.0
HS99-4262	15.0	17.6	16.1	13.2	14.2
HS99-4468	15.0	18.7	15.1	14.4	14.0
HS0-3243	14.0	16.8	14.4	12.8	13.6
HS0-3244	14.0	17.6	14.5	13.3	14.2
HS0-3246	14.0	17.2	14.4	12.7	14.4
HS0-3248	16.0	17.2	14.7	13.1	14.4
HS0-3259	15.0	18.6	15.8	14.3	15.5
HS0-3364	16.0	17.9	15.3	13.4	14.1
U00-320260	16.0	21.2	16.7	14.9	14.8
U00-320276	17.0	22.6	17.0	15.2	15.7
U00-320280	16.0	20.7	16.8	14.3	14.7
U00-404041	20.0	22.0	16.5	15.8	16.2
U00-404046	19.0	22.0	17.0	16.3	16.3
U00-411049	18.0	20.2	15.6	14.9	15.9
U00-420019	18.0	21.4	15.7	16.8	16.8
U00-423034	18.0	20.4	17.4	14.3	16.6
U00-424018	17.0	20.1	17.3	13.9	15.2
U00-425032	19.0	20.0	17.0	16.6	17.8
U00-426026	18.0	20.5	16.8	16.5	16.3
U00-429025	18.0	24.2	20.2	18.9	19.2
U00-429029	18.0	23.8	18.2	16.6	16.0
U00-432045	19.0	25.0	22.6	16.9	21.0
U00-433016	21.0	22.4	18.9	16.8	18.8

PRELIMINARY TEST IIIB, 2002

SEED QUALITY (score)

Strain	Mean 6 Tests	Ames IA	Carlisle IA	Urbana IL	Lafayette IN	Manhattan KS
IA3010 (III)	1.9			2.5	1.0	3.0
IA2052 (II)	2.0			2.0	1.5	3.0
Macon (L)	2.0			2.5	1.0	3.0
NE3001	1.9			2.0	1.0	4.0
Apex (HC94-1065)	1.9			2.0	1.0	3.0
E00101	2.2			3.0	1.0	4.0
E00105	2.0			1.5	1.0	4.0
E00153	1.8			1.5	1.0	3.0
E00178	1.8			2.0	1.0	3.0
E00257	2.0			2.5	1.0	3.0
E00274	2.2			2.5	1.0	3.0
E00294	2.2			2.5	1.0	4.0
E00306	2.1			2.0	1.0	3.0
E00308	2.1			2.0	1.0	3.0
HC98-71PR	1.6			1.5	1.0	2.0
HC98-76PR	1.6			1.5	1.0	2.0
HC99-27MB	1.5			1.5	1.0	2.0
HC99-34PR	1.7			2.0	1.0	2.0
HC99-665	1.7			1.0	1.0	3.0
HC99-1108	1.8			2.5	1.0	2.0
HC99-1334	1.8			2.0	1.0	3.0
HC99-1503	1.8			1.5	1.0	2.0
HC99-4792	1.7			1.0	1.0	2.0
HC99-4826	1.8			1.5	1.0	3.0
HC99-4837	1.7			2.0	1.0	2.0
HC99-4919	1.7			2.0	1.0	2.0
HS99-4256	1.8			2.0	1.0	3.0
HS99-4262	1.9			2.5	1.0	3.0
HS99-4468	1.9			2.5	1.0	3.0
HS0-3243	1.7			2.0	1.0	2.0
HS0-3244	2.0			2.0	1.5	3.0
HS0-3246	1.9			2.5	1.0	3.0
HS0-3248	2.0			2.5	1.0	3.0
HS0-3259	1.9			2.0	1.0	3.0
HS0-3364	1.6			2.0	1.0	2.0
U00-320260	2.2			2.5	1.5	4.0
U00-320276	2.3			2.0	2.0	5.0
U00-320280	2.1			2.0	1.0	4.0
U00-404041	2.0			2.5	1.5	3.0
U00-404046	2.2			2.5	1.0	4.0
U00-411049	1.9			2.0	1.0	3.0
U00-420019	2.1			2.5	1.0	4.0
U00-423034	2.2			2.5	1.5	4.0
U00-424018	2.0			2.0	1.0	4.0
U00-425032	2.3			2.5	1.0	4.0
U00-426026	2.2			2.5	1.5	4.0
U00-429025	2.3			3.0	1.5	4.0
U00-429029	2.1			2.5	1.0	4.0
U00-432045	2.3			2.5	1.5	4.0
U00-433016	2.1			2.0	1.0	4.0

PRELIMINARY TEST IIIB, 2002

SEED QUALITY (score)

Strain	Kingdom City MO	Palmyra NE	Tekamah NE	Hoytville OH	So. Charleston OH
IA3010 (III)	2.0			1.8	1.3
IA2052 (II)	2.0			1.4	1.8
Macon (L)	2.0			1.9	1.4
NE3001	2.0			1.6	1.0
Apex (HC94-1065)				1.7	1.7
E00101	2.0			1.7	1.7
E00105	2.0			1.6	1.7
E00153	2.0			1.6	1.5
E00178	2.0			1.5	1.5
E00257	2.0			2.1	1.5
E00274	3.0			1.9	1.7
E00294	2.0			1.9	1.6
E00306	3.0			2.1	1.5
E00308	3.0			1.9	1.8
HC98-71PR	2.0			1.8	1.5
HC98-76PR	2.0			1.9	1.2
HC99-27MB	2.0			1.5	1.0
HC99-34PR	2.0			2.1	1.2
HC99-665	2.0			2.1	1.0
HC99-1108	2.0			1.7	1.3
HC99-1334	2.0			1.5	1.3
HC99-1503	3.0			1.9	1.5
HC99-4792	3.0			2.1	1.3
HC99-4826	2.0			1.9	1.5
HC99-4837	2.0			1.8	1.5
HC99-4919	2.0			2.3	1.0
HS99-4256	2.0			1.5	1.5
HS99-4262	2.0			1.5	1.5
HS99-4468	2.0			1.5	1.2
HS0-3243	2.0			1.7	1.2
HS0-3244	2.0			2.1	1.5
HS0-3246	2.0			1.6	1.3
HS0-3248	2.0			1.9	1.5
HS0-3259	2.0			1.8	1.5
HS0-3364	2.0			1.6	1.2
U00-320260	2.0			1.8	1.3
U00-320276	2.0			1.6	1.3
U00-320280	3.0			1.5	1.3
U00-404041	2.0			1.5	1.3
U00-404046	2.0			2.2	1.2
U00-411049	2.0			1.7	1.5
U00-420019	2.0			1.9	1.3
U00-423034	2.0			1.7	1.5
U00-424018	2.0			1.6	1.5
U00-425032	3.0			1.9	1.5
U00-426026	2.0			1.9	1.5
U00-429025	2.0			2.3	1.2
U00-429029	2.0			1.7	1.2
U00-432045	2.0			2.4	1.5
U00-433016	2.0			1.9	1.5

PRELIMINARY TEST IIIB, 2002

GREEN STEM (Score)

Strain	Mean 2 Tests	Kingdom City MO	Palmyra NE
IA3010 (III)	2.0	3.0	1.0
IA2052 (II)	2.5	1.0	4.0
Macon (L)	3.0	3.0	3.0
NE3001	2.0	1.0	3.0
Apex (HC94-1065)	4.5	5.0	4.0
E00101	3.0	3.0	3.0
E00105	1.0	1.0	1.0
E00153	3.0	4.0	2.0
E00178	3.5	4.0	3.0
E00257	3.0	4.0	2.0
E00274	4.0	5.0	3.0
E00294	4.5	4.0	5.0
E00306	3.5	3.0	4.0
E00308	5.0	5.0	5.0
HC98-71PR	4.0	5.0	3.0
HC98-76PR	4.5	5.0	4.0
HC99-27MB	1.5	1.0	2.0
HC99-34PR	3.0	3.0	3.0
HC99-665	2.0	1.0	3.0
HC99-1108	3.5	5.0	2.0
HC99-1334	1.0	1.0	1.0
HC99-1503	3.0	3.0	3.0
HC99-4792	3.5	5.0	2.0
HC99-4826	2.5	2.0	3.0
HC99-4837	3.5	5.0	2.0
HC99-4919	1.0	1.0	1.0
HS99-4256	1.0	1.0	1.0
HS99-4262	1.5	2.0	1.0
HS99-4468	2.0	2.0	2.0
HS0-3243	2.5	3.0	2.0
HS0-3244	3.0	3.0	3.0
HS0-3246	2.0	1.0	3.0
HS0-3248	4.0	5.0	3.0
HS0-3259	3.5	5.0	2.0
HS0-3364	4.0	5.0	3.0
U00-320260	2.0	1.0	3.0
U00-320276	2.0	1.0	3.0
U00-320280	2.5	3.0	2.0
U00-404041	3.5	3.0	4.0
U00-404046	3.5	3.0	4.0
U00-411049	4.5	5.0	4.0
U00-420019	2.0	1.0	3.0
U00-423034	4.5	5.0	4.0
U00-424018	4.0	5.0	3.0
U00-425032	4.5	5.0	4.0
U00-426026	5.0	5.0	5.0
U00-429025	2.0	1.0	3.0
U00-429029	2.5	1.0	4.0
U00-432045	3.0	3.0	3.0
U00-433016	2.5	3.0	2.0

PRELIMINARY TEST IIIB, 2002

PROTEIN (%)

Strain	Mean 4 Tests	Ames IA	Urbana IL	Lafayette IN	Hoytville OH
IA3010 (III)	39.0	40.0	41.8	40.6	33.8
IA2052 (II)	40.3	42.5	42.0	41.1	35.7
Macon (L)	39.8	40.6	42.8	40.8	35.0
NE3001	39.3	39.6	40.5	40.9	36.3
Apex (HC94-1065)	38.7	39.7	39.3	39.9	35.8
E00101	41.2	42.7	43.9	41.3	37.0
E00105	39.3	40.6	40.5	41.7	34.5
E00153	40.0	40.8	43.3	41.7	34.2
E00178	40.5	41.6	44.2	40.6	35.7
E00257	41.1	42.7	42.8	42.2	36.6
E00274	40.8	42.6	43.0	40.3	37.3
E00294	41.2	40.6	41.7	39.8	42.8
E00306	38.9	39.9	40.9	39.7	35.2
E00308	39.4	41.4	40.7	39.9	35.6
HC98-71PR	41.5	41.0	44.0	42.9	38.2
HC98-76PR	41.1	40.8	42.5	43.0	38.2
HC99-27MB	38.5	38.2	40.9	41.6	33.3
HC99-34PR	40.2	40.3	43.4	42.4	34.9
HC99-665	39.8	40.8	41.1	40.4	37.0
HC99-1108	38.1	36.2	43.7	41.8	30.9
HC99-1334	40.3	41.2	42.8	42.2	35.1
HC99-1503	38.4	41.3	37.3	36.4	38.8
HC99-4792	41.3	42.3	43.7	42.0	37.2
HC99-4826	40.4	40.0	42.3	41.7	37.6
HC99-4837	38.7	38.8	40.7	41.2	33.9
HC99-4919	40.2	40.9	42.8	42.8	34.5
HS99-4256	41.8	42.6	43.1	43.1	38.6
HS99-4262	40.6	41.9	43.1	42.1	35.4
HS99-4468	40.6	41.2	41.6	42.1	37.5
HS0-3243	41.3	40.4	42.8	41.8	40.4
HS0-3244	40.7	40.1	43.0	42.3	37.5
HS0-3246	40.5	40.4	42.5	42.1	36.9
HS0-3248	40.9	41.1	43.4	41.8	37.4
HS0-3259	40.9	41.4	43.1	41.3	37.8
HS0-3364	39.2	40.3	40.5	40.3	35.5
U00-320260	38.6	39.0	40.2	40.8	34.4
U00-320276	38.4	39.4	39.3	41.3	33.8
U00-320280	37.8	38.5	38.9	40.4	33.5
U00-404041	40.5	40.8	41.8	42.6	36.6
U00-404046	39.3	39.5	39.8	41.9	35.9
U00-411049	41.1	42.8	43.3	42.5	35.8
U00-420019	41.5	42.0	43.9	41.7	38.2
U00-423034	41.8	42.3	44.2	43.1	37.5
U00-424018	41.6	41.8	42.4	42.4	39.7
U00-425032	40.5	40.8	42.3	41.3	37.5
U00-426026	41.6	41.7	43.4	43.4	37.7
U00-429025	42.8	43.3	44.8	44.8	38.3
U00-429029	37.1	37.0	39.0	39.0	33.2
U00-432045	41.6	40.9	44.1	43.0	38.6
U00-433016	40.4	40.5	42.3	41.4	37.4

PRELIMINARY TEST IIIB, 2002

OIL (%)

Strain	Mean 4 Tests	Ames IA	Urbana IL	Lafayette IN	Hoytville OH
IA3010 (III)	19.1	18.6	19.1	18.8	19.9
IA2052 (II)	19.5	19.0	20.3	18.8	19.8
Macon (L)	18.8	18.5	19.2	18.6	19.0
NE3001	20.2	19.4	21.1	19.5	20.9
Apex (HC94-1065)	20.1	19.5	21.9	19.6	19.5
E00101	19.1	18.3	19.0	19.0	20.2
E00105	20.0	19.0	21.2	19.6	20.4
E00153	19.3	19.0	19.7	18.6	19.7
E00178	19.4	19.1	18.8	19.0	20.5
E00257	19.3	17.7	20.1	19.3	19.9
E00274	19.0	18.1	19.9	18.9	19.2
E00294	18.5	18.6	18.8	18.4	18.4
E00306	19.5	18.4	20.1	19.4	20.2
E00308	19.4	18.7	20.1	19.4	19.6
HC98-71PR	19.5	19.5	18.9	19.3	20.3
HC98-76PR	18.9	18.3	19.2	19.0	19.0
HC99-27MB	20.2	19.1	21.2	20.5	20.1
HC99-34PR	19.5	18.8	19.8	18.8	20.8
HC99-665	19.2	18.8	20.5	18.7	19.0
HC99-1108	20.4	21.4	19.7	18.9	21.7
HC99-1334	19.4	18.5	19.7	18.3	21.0
HC99-1503	20.4	19.1	21.8	21.8	19.1
HC99-4792	18.9	18.7	19.8	18.1	19.0
HC99-4826	19.8	19.6	20.2	19.6	19.9
HC99-4837	19.3	17.6	20.6	18.8	20.2
HC99-4919	19.1	19.2	18.9	18.5	19.9
HS99-4256	19.4	19.1	20.2	19.1	19.3
HS99-4262	19.1	18.1	19.5	19.0	19.8
HS99-4468	20.0	19.6	20.2	19.8	20.2
HS0-3243	19.3	19.2	20.4	19.2	18.6
HS0-3244	19.2	19.2	19.4	18.9	19.4
HS0-3246	19.5	19.3	19.4	19.0	20.1
HS0-3248	18.7	18.7	18.4	18.6	19.2
HS0-3259	18.6	17.5	19.1	18.0	19.6
HS0-3364	19.4	18.5	20.2	19.2	19.7
U00-320260	20.4	19.2	21.3	20.2	21.0
U00-320276	20.8	19.1	22.0	20.3	21.6
U00-320280	20.8	19.8	21.1	20.3	22.0
U00-404041	21.2	20.8	21.8	20.4	21.9
U00-404046	20.5	19.6	21.4	20.1	21.0
U00-411049	18.5	18.0	18.3	18.3	19.5
U00-420019	19.0	18.4	19.5	19.0	19.3
U00-423034	18.6	17.9	18.6	18.6	19.3
U00-424018	19.2	18.5	19.3	19.6	19.2
U00-425032	19.2	18.5	19.3	19.0	20.0
U00-426026	18.3	18.2	18.5	18.5	18.0
U00-429025	19.3	18.9	19.4	18.9	19.8
U00-429029	21.0	18.7	22.2	21.2	21.7
U00-432045	18.7	19.1	18.7	18.4	18.7
U00-433016	18.7	18.3	19.0	18.6	18.8

Uniform Test IV, 2002

Ent.	Strain	Parentage	Previous Testing	Generation Composited	Unique Traits
1	HS93-4118 (IV)	IA2007 x Dairyland DSR 304	6	F5	Rps1c
2.	LS93-0375 (SCN)	Asgrow A3935 x Pioneer P9402	1	F6	SCN
3.	Macon (III)	Sherman x Resnik	6	F5	
4.	Strong (dt1)	Sprite 87 x HC85-6577	2	F5	dt1
5.	HC96-182PR	Stressland (4) x HC78-676 BC	2	BC3F4	Dt1
6.	HC97-168PR	HC89-2237 (4) x Flyer	1	BC3F3	Rps1k, Dt1
7.	HC97-235PR	Stressland (4) x Thorne	1	BC3F3	Rps1k, Dt1
8.	HC97-1691	Stressland x HC89-2237	PTIVA	F4	Dt1
9.	HC97-1867	CAB 47 x Stressland	PTIVA	F4	Dt1
10.	HC97-4182	HC85-6577 x Charleston BC	PTIVB	F4	dt1
11.	HC97-4189	HC85-6577 x Charleston BC	PTIVB	F4	dt1
12.	HC98-251	HC89-314 x Charleston BC	PTIVB	F4	dt1
13.	HC98-1082	Sprite 87 x HC85-6577	PTIVB	F4	dt1
14.	HC98-1276	Charleston BC x Stressland	PTIVA	F4	Dt1
15.	HC98-1343	Stressland x Croton 3.9	PTIVA	F4	Dt1
16.	HC98-1367	Stressland x HC89-2436	PTIVA	F4	Dt1
17.	HC98-4449	HC85-606 x HC78-676 BC	PTIVB	F4	dt1
18.	K1517	CX411 x Stressland	PTIVB	F5	
19.	K1519	CX411 x Stressland	PTIVB	F5	
20.	LN97-15076	Macon x Stressland	1	F5	
21.	LS97-1218	Flyer x Asgrow A4138	1	F6	SCN
22.	LS98-0582	Northup King 46-44 x Asgrow 4138	PTIVA	F6	SCN
23.	LS98-1386	LS88-1517 x Asgrow 4138	PTIVA	F6	SCN
24.	Md96-5722	KS4694 x Corsica	2	F5	

UNIFORM TEST IV, 2002

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	Chlorosis Score Lamber-ton	Shattering Score Man-hattan	PR Lafayette Race 4	PR Lafayette Race 7	Hard Seed %	PS Lafayette a %	P&SB n %
HS93-4118 (IV)	WLtBDYIbI	3.5	1.0	S	R	8	8	6
LS93-0375 (SCN)	PRBDYBII	5.0	2.0	S	R	8	10	2
Macon (III)	WTBIYBII	4.5	1.0	S	S	12	10	2
Strong (dt1)	WTTDYBlD	3.0	1.0	S	R	14	10	0
HC96-182PR	PTSIYBl+BrI	4.0	2.0	R	R	0	16	2
HC97-168PR	PTTDYBII	4.5	1.0	R	R	0	14	2
HC97-235PR	PTTDYBII	4.0	1.0	R	S	0	16	2
HC97-1691	PTTDYBII	4.5	1.0	H	S	0	12	2
HC97-1867	PTTDYBII	2.5	1.0	H	S	0	18	4
HC97-4182	PTTDYBlD	2.5	1.0	S	S	4	14	0
HC97-4189	PTTDYBlD	3.5	1.0	S	S	8	14	0
HC98-251	WTTDYBlD	3.0	1.0	R	R	0	4	0
HC98-1082	WTTDYBlD	3.5	1.0	R	R	0	22	0
HC98-1276	PTTSYBII	4.0	1.0	S	S	2	2	2
HC98-1343	PTTDYBII	3.5	1.0	H	S	2	10	0
HC98-1367	PTTDYBII	4.0	1.0	H	S	0	18	0
HC98-4449	PTBDYBrD	3.0	1.0	R	R	6	8	0
K1517	PTTDYBII	2.5	1.0	H	S	0	6	0
K1519	PTTDYBII	3.0	1.0	S	S	0	32	0
LN97-15076	WTSDYIbI	3.0	1.0	S	S	0	12	4
LS97-1218	WTTDYBII	4.3	1.0	S	S	0	4	2
LS98-0582	WTTDYIbI	5.0	1.0	R	R	2	10	4
LS98-1386	WGTDYLbfI	4.0	2.0	S	S	0	6	4
Md96-5722	WGTDYLbfI	3.7	1.0	S	S	0	4	2

UNIFORM TEST IV, 2002

REGIONAL SUMMARY

No. of Tests Strain	Yield 14 bu/a	Rank 14 No.	Maturity 14 Date	Lodging 15 Score	Plant Height 15 In.	Seed Size 14 g/100	Seed Quality 14 Score	Grenn Stem 3 Score	Composition Protein 4 %	 Oil 4 %
HS93-4118 (IV)	49.9	8	9/25	1.4	29	15.1	2.8	2.3	41.3	19.6
LS93-0375 (SCN)	49.1	12	1.7	1.2	31	16.2	2.2	2.0	41.3	20.1
Macon (III)	47.6	18	-0.9	1.3	29	16.2	2.2	1.7	41.0	20.7
Strong (dt1)	40.3	23	0.2	1.0	19	17.0	2.5	2.0	42.7	20.3
HC96-182PR	50.0	6	0.8	1.5	34	14.4	2.2	2.3	42.5	21.1
HC97-168PR	48.0	16	-1.4	1.3	32	14.0	1.9	1.0	44.1	19.6
HC97-235PR	50.7	3	0.9	1.5	34	13.2	1.9	1.3	42.8	20.3
HC97-1691	50.0	6	1.4	1.7	35	12.8	2.2	1.7	42.9	21.1
HC97-1867	48.6	13	-0.7	1.7	36	14.0	2.4	1.3	41.6	21.0
HC97-4182	44.2	21	0.7	1.1	18	17.7	3.0	2.3	41.5	19.7
HC97-4189	43.6	22	1.8	1.1	18	17.3	2.8	3.0	41.7	20.4
HC98-251	46.6	20	-0.6	1.0	20	15.7	1.9	2.3	40.8	20.9
HC98-1082	40.2	24	0.8	1.1	16	15.8	2.6	2.7	41.8	19.8
HC98-1276	47.9	17	1.6	2.5	39	12.8	2.2	1.0	40.4	21.2
HC98-1343	49.4	11	2.4	1.6	35	14.3	1.9	1.7	42.4	19.8
HC98-1367	49.7	9	0.4	1.7	34	14.2	2.0	2.0	43.3	20.4
HC98-4449	46.9	19	2.7	1.1	19	15.6	2.4	2.3	41.6	20.3
K1517	48.1	15	1.8	2.5	31	13.9	1.9	2.7	41.5	20.7
K1519	50.1	5	4.3	1.5	34	13.6	2.2	2.0	41.8	20.1
LN97-15076	50.9	2	1.9	1.4	34	15.5	2.3	2.3	41.4	20.3
LS97-1218	49.7	9	1.3	1.7	34	13.9	1.9	2.3	40.7	20.3
LS98-0582	51.2	1	3.5	1.5	35	14.7	2.0	3.3	41.3	19.0
LS98-1386	48.4	14	3.4	1.6	36	16.6	2.2	3.3	40.8	20.6
Md96-5722	50.6	4	3.4	1.6	36	17.0	2.5	2.3	41.3	20.7

125.6 Days After Planting

UNIFORM TEST IV, 2002

2001-2002 2-YEAR MEAN

No. of Tests Strain	Yield 30 bu/a	Rank 30 No.	Maturity 30 Date	Lodging 32 Score	Plant Height 32 In.	Seed Size 28 g/100	Seed Quality 28 Score	Grenn Stem 7 Score	Composition Protein 9 %	 Oil 9 %
HS93-4118 (IV)	51.2	4	9/24	1.3	30	14.2	2.4	2.1	40.1	20.2
LS93-0375 (SCN)	50.3	7	1.9	1.3	32	15.8	2.0	2.2	41.1	20.3
Macon (III)	48.3	9	-0.8	1.3	30	15.8	2.0	1.7	40.2	21.1
Strong (dt1)	41.5	10	0.4	1.1	19	16.8	2.2	2.3	41.7	20.7
HC96-182PR	50.9	6	1.0	1.6	36	14.2	2.0	2.3	42.2	20.9
HC97-168PR	49.5	8	-1.2	1.4	33	14.0	1.8	1.5	42.9	19.8
HC97-235PR	51.3	3	1.9	1.7	35	13.2	1.9	1.5	42.2	20.4
LN97-15076	51.7	1	2.1	1.4	35	15.4	2.1	2.2	41.2	20.6
LS97-1218	51.1	5	1.9	1.4	35	13.9	1.8	2.0	40.5	20.7
Md96-5722	51.4	2	2.8	1.6	36	17.0	2.4	2.4	40.9	20.6

130.1 Days After Planting

2000-2002 3-YEAR MEAN

No. of Tests Strain	42	42	42	45	45	40			14	14
HS93-4118 (IV)	53.9	1	9/24	1.5	31	14.3			40.8	19.9
Macon (III)	51.6	4	-0.9	1.3	31	16.1			41.0	20.7
Strong (dt1)	46.4	5	0.5	1.2	21	16.9			42.1	20.5
HC96-182PR	53.4	3	1.9	1.7	37	14.2			43.0	20.4
Md96-5722	53.6	2	3.1	1.7	37	16.8			41.4	20.3

130.5 Days After Planting

UNIFORM TEST IV, 2002

YIELD (bu/a)

Strain	Mean 14 Tests	Fayetteville* irrigated AR	Keiser* irrigated AR	Rohwer* irrigated AR	Georgetown DE	Belleville IL	Harrisburg IL
HS93-4118 (IV)	49.9	16.1	62.1	37.4	68.7	55.6	61.5
LS93-0375 (SCN)	49.1	22.4	40.0	41.8	65.7	61.8	50.3
Macon (III)	47.6	35.3	60.6	35.2	62.7	51.5	49.9
Strong (dt1)	40.3	28.5	36.7	18.4	52.3	47.5	41.8
HC96-182PR	50.0	24.3	67.1	45.6	70.9	54.8	52.6
HC97-168PR	48.0	24.3	59.2	38.2	65.4	51.8	50.4
HC97-235PR	50.7	24.3	67.0	50.4	62.7	55.0	52.4
HC97-1691	50.0	24.6	68.4	45.4	64.7	54.3	54.1
HC97-1867	48.6	23.0	59.9	42.0	67.3	50.1	49.1
HC97-4182	44.2	28.9	39.4	24.4	58.5	55.1	48.0
HC97-4189	43.6	14.9	17.6	20.9	58.6	51.5	40.5
HC98-251	46.6	33.2	66.2	30.5	70.3	52.6	50.3
HC98-1082	40.2	17.5	58.2	44.1	58.0	49.8	43.4
HC98-1276	47.9	29.0	61.5	55.9	54.7	51.5	53.4
HC98-1343	49.4	24.1	58.7	41.6	66.8	56.7	49.0
HC98-1367	49.7	31.7	59.8	50.7	64.6	55.4	53.2
HC98-4449	46.9	32.3	21.2	18.7	62.2	53.7	53.4
K1517	48.1	29.4	26.4	16.4	65.3	52.5	47.6
K1519	50.1	28.1	59.1	39.6	69.6	53.4	46.7
LN97-15076	50.9	23.5	65.9	45.3	64.9	56.5	53.5
LS97-1218	49.7	19.9	71.0	48.0	67.9	57.7	48.5
LS98-0582	51.2	25.2	54.0	47.0	64.9	60.9	48.4
LS98-1386	48.4	29.9	48.4	54.0	61.3	62.6	48.8
Md96-5722	50.6	20.9	74.6	38.0	69.0	56.8	50.5
C.V. (%)		19.2	14.6	16.0	7.6	10.6	11.4
L.S.D. (5%)		10.2	13.7	12.0	8.0	9.5	9.4
Row Sp. (In.)		15	15	15	15	30	30
Rows/Plot		4	5	5	5	4	4
Reps		3	3	3	3	3	3

* Data not included in mean.

UNIFORM TEST IV, 2002

YIELD (bu/a)

Strain	Newtown IL	Urbana IL	Butlerville* IN	Lafayette IN	Manhattan KS	Ottawa KS
HS93-4118 (IV)	51.8	53.2	42.8	75.5	67.4	15.0
LS93-0375 (SCN)	53.6	59.1	39.7	76.2	58.8	17.5
Macon (III)	50.4	56.1	38.6	73.6	55.8	18.3
Strong (dt1)	41.6	52.4	33.1	69.1	49.2	15.1
HC96-182PR	47.8	56.8	52.3	71.1	60.9	18.1
HC97-168PR	47.2	50.6	41.9	73.5	53.0	18.6
HC97-235PR	52.7	59.9	47.3	73.4	64.3	18.0
HC97-1691	48.2	52.6	46.2	73.5	67.5	19.4
HC97-1867	49.4	55.4	52.2	71.6	63.2	18.7
HC97-4182	43.6	52.5	16.9	72.9	46.2	15.9
HC97-4189	45.3	53.4	29.3	68.5	50.9	17.1
HC98-251	45.0	50.5	23.2	74.4	47.4	19.1
HC98-1082	41.8	50.7	11.2	61.8	47.5	15.4
HC98-1276	53.0	55.9	49.9	71.2	49.1	16.8
HC98-1343	50.8	49.9	37.7	68.5	61.4	16.3
HC98-1367	53.3	48.9	34.6	71.7	59.7	21.3
HC98-4449	48.8	50.2	29.3	72.3	59.5	19.3
K1517	51.7	50.0	47.9	74.0	62.0	17.2
K1519	52.0	54.3	43.4	73.3	65.8	16.0
LN97-15076	52.3	56.9	48.3	75.0	66.5	19.5
LS97-1218	55.4	61.4	49.3	80.3	56.6	18.6
LS98-0582	56.6	62.7	43.8	80.0	57.3	20.0
LS98-1386	49.6	56.7	46.5	71.4	61.5	17.4
Md96-5722	51.1	53.3	44.8	72.3	64.1	17.9
C.V. (%)	8.0	8.2	21.9	4.7	9.1	11.0
L.S.D. (5%)	6.5	7.3	14.2	5.6	7.5	2.8
Row Sp. (In.)	30	30	26	24	30	30
Rows/Plot	4	4	4	4	4	4
Reps	3	3	3	3	4	4

* Data not included in mean.

UNIFORM TEST IV, 2002

YIELD (bu/a)

Strain	Queenstown MD	Kingdom City MO	Portageville (Clay) MO	Portageville (Loam) MO	Mt. Orab OH	South Charleston OH
HS93-4118 (IV)	28.3	40.9	48.9	43.2	24.3	64.6
LS93-0375 (SCN)	24.1	44.9	40.6	37.6	33.1	64.6
Macon (III)	27.5	45.9	40.2	39.9	28.9	66.3
Strong (dt1)	22.2	35.2	27.8	24.5	21.6	64.4
HC96-182PR	29.6	51.6	47.1	37.5	31.8	69.2
HC97-168PR	29.8	49.9	48.2	40.1	28.3	65.5
HC97-235PR	31.1	48.9	49.2	44.7	30.0	68.1
HC97-1691	31.4	49.0	50.6	41.0	26.7	67.2
HC97-1867	22.9	49.6	48.5	40.3	32.1	62.7
HC97-4182	26.1	42.5	34.5	28.4	30.0	65.0
HC97-4189	22.6	38.9	37.1	29.1	28.5	69.0
HC98-251	24.2	46.7	38.7	34.0	29.9	69.7
HC98-1082	24.5	26.9	37.9	22.2	21.6	61.9
HC98-1276	27.7	43.8	57.4	45.1	26.9	64.0
HC98-1343	34.7	43.2	55.0	44.6	27.7	67.2
HC98-1367	28.1	53.9	47.5	41.4	32.2	63.9
HC98-4449	25.0	49.8	27.1	32.4	32.0	71.0
K1517	26.5	43.5	45.4	42.9	27.0	67.9
K1519	30.4	54.4	45.5	45.4	32.6	61.6
LN97-15076	22.3	47.4	49.7	45.2	31.1	71.6
LS97-1218	17.2	50.5	47.0	44.5	23.7	66.1
LS98-0582	25.1	52.8	48.3	43.9	32.6	63.0
LS98-1386	27.9	45.9	46.5	36.4	28.3	63.7
Md96-5722	30.2	47.4	49.7	40.1	33.7	73.0
C.V. (%)	19.1	6.5	9.0	9.6	13.6	7.1
L.S.D. (5%)	ns	4.1	5.5	5.0	ns	7.8
Row Sp. (In.)	24	30	30	30	15	15
Rows/Plot	4	4	4	4	6	6
Reps	3	3	3	3	3	3

UNIFORM TEST IV, 2002

YIELD RANK

Strain	Yield Rank	Fayetteville* irrigated AR	Keiser* irrigated AR	Rohwer* irrigated AR	Georgetown DE	Belleville IL	Harrisburg IL
HS93-4118 (IV)	8	23	8	17	5	8	1
LS93-0375 (SCN)	12	19	19	12	9	2	12
Macon (III)	18	1	10	18	16	19	13
Strong (dt1)	23	9	21	23	24	24	23
HC96-182PR	6	13	4	7	1	12	7
HC97-168PR	16	13	13	15	10	18	10
HC97-235PR	3	13	5	4	17	11	8
HC97-1691	6	12	3	8	14	13	2
HC97-1867	13	18	11	11	7	22	14
HC97-4182	21	8	20	20	21	10	19
HC97-4189	22	24	24	21	20	21	24
HC98-251	20	2	6	19	2	16	11
HC98-1082	24	22	16	10	22	23	22
HC98-1276	17	7	9	1	23	20	5
HC98-1343	11	16	15	13	8	6	15
HC98-1367	9	4	12	3	15	9	6
HC98-4449	19	3	23	22	18	14	4
K1517	15	6	22	24	11	17	20
K1519	5	10	14	14	3	15	21
LN97-15076	2	17	7	9	12	7	3
LS97-1218	9	21	2	5	6	4	17
LS98-0582	1	11	17	6	12	3	18
LS98-1386	14	5	18	2	19	1	16
Md96-5722	4	20	1	16	4	5	9

* Data not included in mean.

UNIFORM TEST IV, 2002

YIELD RANK

Strain	Newtown IL	Urbana IL	Butlerville IN	Lafayette IN	Manhattan KS	Ottawa KS
HS93-4118 (IV)	9	14	13	4	2	24
LS93-0375 (SCN)	3	4	15	3	14	14
Macon (III)	13	8	16	8	17	10
Strong (dt1)	24	17	19	21	20	23
HC96-182PR	18	6	1	20	11	11
HC97-168PR	19	19	14	9	18	8
HC97-235PR	6	3	7	11	5	12
HC97-1691	17	15	9	9	1	4
HC97-1867	15	10	2	17	7	7
HC97-4182	22	16	23	13	24	21
HC97-4189	20	12	21	22	19	17
HC98-251	21	20	22	6	23	6
HC98-1082	23	18	24	24	22	22
HC98-1276	5	9	3	19	21	18
HC98-1343	12	23	17	23	10	19
HC98-1367	4	24	18	16	12	1
HC98-4449	16	21	20	14	13	5
K1517	10	22	6	7	8	16
K1519	8	11	12	12	4	20
LN97-15076	7	5	5	5	3	3
LS97-1218	2	2	4	1	16	8
LS98-0582	1	1	11	2	15	2
LS98-1386	14	7	8	18	9	15
Md96-5722	11	13	10	14	6	13

UNIFORM TEST IV, 2002

YIELD RANK

Strain	Queenstown MD	Kingdom City MO	Portageville (Clay) MO	Portageville (Loam) MO	Mt. Orab OH	South Charleston OH
HS93-4118 (IV)	8	21	7	8	21	15
LS93-0375 (SCN)	19	16	17	16	2	15
Macon (III)	12	14	18	15	13	11
Strong (dt1)	23	23	23	23	23	17
HC96-182PR	7	4	12	17	8	5
HC97-168PR	6	6	10	13	15	13
HC97-235PR	3	10	6	4	10	7
HC97-1691	2	9	3	11	20	9
HC97-1867	20	8	8	12	6	22
HC97-4182	14	20	22	22	10	14
HC97-4189	21	22	21	21	14	6
HC98-251	18	13	19	19	12	4
HC98-1082	17	24	20	24	23	23
HC98-1276	11	17	1	3	19	18
HC98-1343	1	19	2	5	17	9
HC98-1367	9	2	11	10	5	19
HC98-4449	16	7	24	20	7	3
K1517	13	18	16	9	18	8
K1519	4	1	15	1	3	24
LN97-15076	22	11	4	2	9	2
LS97-1218	24	5	13	6	22	12
LS98-0582	15	3	9	7	3	21
LS98-1386	10	15	14	18	15	20
Md96-5722	5	11	4	13	1	1

UNIFORM TEST IV, 2002

MATURITY (date)

Strain	Mean 14 Tests	Fayetteville* irrigated AR	Keiser* irrigated AR	Rohwer* irrigated AR	Georgetown DE	Belleville IL	Harrisburg IL
HS93-4118 (IV)	9/25	9/8		8/6	9/27	9/20	9/15
LS93-0375 (SCN)	1.7	-3		3	2	4	3
Macon (III)	-0.9	-3		-2	0	1	2
Strong (dt1)	0.2	-2		-6	1	2	1
HC96-182PR	0.8	-2		3	4	3	3
HC97-168PR	-1.4	0		3	-1	1	1
HC97-235PR	0.9	0		2	1	4	3
HC97-1691	1.4	-1		2	-1	3	3
HC97-1867	-0.7	-3		2	-1	2	3
HC97-4182	0.7	-4		-4	-1	3	3
HC97-4189	1.8	3		-4	3	4	2
HC98-251	-0.6	-2		1	-3	2	0
HC98-1082	0.8	-1		3	3	5	3
HC98-1276	1.6	-3		3	5	6	5
HC98-1343	2.4	-3		1	6	5	5
HC98-1367	0.4	-3		1	0	1	3
HC98-4449	2.7	-3		-5	4	5	5
K1517	1.8	-4		-5	2	2	3
K1519	4.3	-2		3	6	6	6
LN97-15076	1.9	-3		4	4	3	5
LS97-1218	1.3	0		4	1	1	3
LS98-0582	3.5	-6		4	4	6	5
LS98-1386	3.4	-3		4	2	5	5
Md96-5722	3.4	0		4	5	4	4
Date Planted	5/23		4/25	4/16	5/20	5/30	5/24
Days to Mature	126			112	130	113	114

* Data not included in mean.

UNIFORM TEST IV, 2002

MATURITY (date)

Strain	Newtown IL	Urbana IL	Butlerville IN	Lafayette IN	Manhattan KS	Ottawa KS
HS93-4118 (IV)	9/24	10/5	9/25	10/4	10/1	
LS93-0375 (SCN)	5	0	3	5	-0	
Macon (III)	1	-2	0	-1	-2	
Strong (dt1)	5	-4	2	6	1	
HC96-182PR	3	-3	4	6	0	
HC97-168PR	1	-3	2	3	-2	
HC97-235PR	4	-2	2	7	1	
HC97-1691	4	-2	3	7	1	
HC97-1867	2	-2	4	6	-1	
HC97-4182	5	-1	2	4	1	
HC97-4189	5	-1	4	7	1	
HC98-251	1	-2	2	4	-0	
HC98-1082	3	-2	5	5	2	
HC98-1276	3	-4	1	7	-1	
HC98-1343	5	0	5	8	0	
HC98-1367	1	-2	3	4	1	
HC98-4449	4	0	4	6	2	
K1517	3	0	3	7	1	
K1519	7	0	4	7	4	
LN97-15076	3	-1	3	8	1	
LS97-1218	3	-2	5	6	-1	
LS98-0582	7	0	7	10	3	
LS98-1386	4	0	6	9	1	
Md96-5722	3	0	3	6	4	
Date Planted	6/4	6/3	6/5	6/3	5/9	5/22
Days to Mature	112	124	112	123	145	

UNIFORM TEST IV, 2002

MATURITY (date)

Strain	Queenstown MD	Kingdom City MO	Portageville (Clay) MO	Portageville (Loam) MO	Mt. Orab OH	South Charleston OH
HS93-4118 (IV)	10/8	10/5	9/15	9/13	9/26	9/21
LS93-0375 (SCN)	-1	-1	0	1	-1	4
Macon (III)	-7	-2	-2	1	-2	0
Strong (dt1)	-3	-3	-2	-3	-2	2
HC96-182PR	-4	-4	0	-1	-4	4
HC97-168PR	-7	-4	-6	-1	-5	1
HC97-235PR	-3	-4	-6	5	-4	5
HC97-1691	-3	-4	-1	7	-3	6
HC97-1867	-7	-4	-5	-4	-5	2
HC97-4182	1	-2	-2	-1	-3	1
HC97-4189	1	-2	1	-1	-1	2
HC98-251	-3	-3	-4	-2	-2	1
HC98-1082	1	-3	-5	-6	-1	1
HC98-1276	0	-4	-3	6	-4	6
HC98-1343	-3	-4	-3	5	-1	5
HC98-1367	-5	-2	-3	6	-4	3
HC98-4449	0	-1	0	5	1	2
K1517	1	-1	-2	6	-2	3
K1519	3	-2	0	9	2	8
LN97-15076	-3	-1	-2	6	-3	4
LS97-1218	-3	-1	-3	5	-1	4
LS98-0582	2	-3	-1	5	0	5
LS98-1386	4	2	0	5	-1	5
Md96-5722	3	2	-1	7	1	6
Date Planted	5/29	5/23	5/6	5/9	5/24	5/1
Days to Mature	132	135	132	127	125	143

UNIFORM TEST IV, 2002

LODGING (score)

Strain	Mean 15 Tests	Fayetteville* irrigated AR	Keiser* irrigated AR	Rohwer* irrigated AR	Georgetown DE	Belleville IL	Harrisburg IL
HS93-4118 (IV)	1.4			1.0	3.3	1.0	1.0
LS93-0375 (SCN)	1.2			1.0	2.0	1.0	1.0
Macon (III)	1.3			1.0	3.7	1.0	1.0
Strong (dt1)	1.0			1.0	1.0	1.0	1.0
HC96-182PR	1.5			1.0	3.0	1.0	1.5
HC97-168PR	1.3			1.0	2.7	1.0	1.0
HC97-235PR	1.5			1.0	3.3	1.0	1.2
HC97-1691	1.7			1.0	4.0	1.0	2.2
HC97-1867	1.7			1.0	4.0	1.0	1.3
HC97-4182	1.1			1.0	1.0	1.0	1.0
HC97-4189	1.1			1.0	1.0	1.0	1.0
HC98-251	1.0			1.0	1.0	1.0	1.0
HC98-1082	1.1			1.0	1.0	1.0	1.0
HC98-1276	2.5			1.0	5.0	1.0	4.2
HC98-1343	1.6			1.0	2.3	1.0	1.3
HC98-1367	1.7			1.0	3.3	1.0	1.8
HC98-4449	1.1			1.0	1.0	1.0	1.0
K1517	2.5			1.0	23.0	1.0	1.0
K1519	1.5			1.0	2.7	1.0	1.0
LN97-15076	1.4			1.0	2.7	1.0	1.2
LS97-1218	1.7			1.0	3.7	1.0	1.7
LS98-0582	1.5			1.0	2.3	1.0	1.2
LS98-1386	1.6			1.0	3.3	1.0	1.2
Md96-5722	1.6			1.0	3.0	1.0	1.5

* Data not included in mean.

UNIFORM TEST IV, 2002

LODGING (score)

Strain	Newtown IL	Urbana IL	Butlerville IN	Lafayette IN	Manhattan KS	Ottawa KS
HS93-4118 (IV)	1.0	1.0	1.0	1.2	1.8	1.0
LS93-0375 (SCN)	1.5	1.2	1.0	1.0	1.0	1.0
Macon (III)	1.5	1.0	1.0	1.0	1.0	1.0
Strong (dt1)	1.3	1.0	1.0	1.0	1.0	1.0
HC96-182PR	1.8	1.2	1.0	1.3	1.8	1.0
HC97-168PR	1.5	1.5	1.0	1.2	1.3	1.0
HC97-235PR	2.2	1.5	1.0	1.5	2.3	1.0
HC97-1691	2.5	1.5	1.0	1.8	2.0	1.0
HC97-1867	2.5	1.8	1.2	1.8	2.3	1.0
HC97-4182	1.5	1.2	1.0	1.3	1.0	1.0
HC97-4189	1.5	1.0	1.0	1.0	1.0	1.0
HC98-251	1.0	1.0	1.0	1.0	1.0	1.0
HC98-1082	1.3	1.0	1.0	1.0	1.0	1.0
HC98-1276	3.8	2.2	1.3	2.2	3.0	1.0
HC98-1343	2.7	2.2	1.0	1.3	2.0	1.0
HC98-1367	3.3	1.8	1.0	1.3	1.8	1.0
HC98-4449	1.5	1.0	1.0	1.3	1.0	1.0
K1517	1.2	1.0	1.0	1.0	1.0	1.0
K1519	2.2	1.0	1.0	1.0	1.5	1.0
LN97-15076	1.7	1.2	1.0	1.2	1.5	1.0
LS97-1218	2.3	1.3	1.0	1.5	2.3	1.0
LS98-0582	2.0	1.3	1.0	1.4	1.3	1.0
LS98-1386	2.7	1.7	1.0	1.7	2.5	1.0
Md96-5722	3.0	1.2	1.0	1.3	2.3	1.0

UNIFORM TEST IV, 2002

LODGING (score)

Strain	Queenstown MD	Kingdom City MO	Portageville (Clay) MO	Portageville (Loam) MO	Mt. Orab OH	South Charleston OH
HS93-4118 (IV)	1.8	1.0	1.5	2.0	1.0	1.1
LS93-0375 (SCN)	1.8	1.0	1.0	1.5	1.0	1.1
Macon (III)	1.8	1.0	1.0	1.0	1.0	1.0
Strong (dt1)	1.3	1.0	1.0	1.0	1.0	1.0
HC96-182PR	2.2	1.0	1.5	1.5	1.0	1.4
HC97-168PR	2.0	1.0	1.0	1.0	1.0	1.2
HC97-235PR	2.0	1.0	1.0	1.0	1.0	1.7
HC97-1691	2.3	1.0	1.0	1.5	1.0	2.2
HC97-1867	2.8	1.0	1.0	1.0	1.0	2.0
HC97-4182	1.8	1.0	1.0	1.0	1.0	1.0
HC97-4189	1.7	1.0	1.0	1.0	1.0	1.1
HC98-251	1.7	1.0	1.0	1.0	1.0	1.0
HC98-1082	1.5	1.0	1.0	1.0	1.0	1.0
HC98-1276	2.7	2.0	2.5	2.0	1.0	3.4
HC98-1343	2.7	1.0	1.5	1.5	1.0	1.5
HC98-1367	2.5	1.0	1.0	2.5	1.0	1.6
HC98-4449	1.7	1.0	1.0	1.0	1.0	1.0
K1517	1.8	1.0	1.0	1.0	1.0	1.0
K1519	1.8	1.0	2.0	2.0	1.0	2.1
LN97-15076	1.7	1.0	1.5	1.5	1.0	1.3
LS97-1218	2.3	1.0	1.5	2.0	1.0	1.7
LS98-0582	2.3	1.0	1.5	2.5	1.0	1.7
LS98-1386	2.0	1.0	1.5	1.5	1.0	1.5
Md96-5722	2.0	1.0	1.5	1.5	1.0	1.5

UNIFORM TEST IV, 2002

PLANT HEIGHT (inches)

Strain	Mean 15 Tests	Fayetteville* irrigated AR	Keiser* irrigated AR	Rohwer* irrigated AR	Georgetown DE	Belleville IL	Harrisburg IL
HS93-4118 (IV)	29	25		18	42	31	33
LS93-0375 (SCN)	31	23		19	34	32	34
Macon (III)	29	18		16	38	31	32
Strong (dt1)	19	26		10	22	20	21
HC96-182PR	34	29		27	43	34	34
HC97-168PR	32	28		22	36	34	38
HC97-235PR	34	28		22	43	33	36
HC97-1691	35	23		25	43	36	41
HC97-1867	36	23		21	44	34	36
HC97-4182	18	21		10	21	19	19
HC97-4189	18	25		10	22	18	18
HC98-251	20	30		11	27	21	21
HC98-1082	16	25		22	19	19	18
HC98-1276	39	22		30	43	38	43
HC98-1343	35	22		24	41	34	39
HC98-1367	34	27		24	42	34	37
HC98-4449	19	25		9	22	21	20
K1517	31	15		9	41	29	32
K1519	34	34		25	40	36	36
LN97-15076	34	16		25	43	34	36
LS97-1218	34	24		21	41	34	35
LS98-0582	35	32		24	41	37	36
LS98-1386	36	15		25	44	38	36
Md96-5722	36	21		21	44	37	39

* Data not included in mean.

UNIFORM TEST IV, 2002

PLANT HEIGHT (inches)

Strain	Newtown IL	Urbana IL	Butlerville IN	Lafayette IN	Manhattan KS	Ottawa KS
HS93-4118 (IV)	34	32	26	37	33	22
LS93-0375 (SCN)	36	34	28	38	31	25
Macon (III)	35	31	24	37	30	26
Strong (dt1)	22	23	18	23	11	20
HC96-182PR	37	37	34	44	34	28
HC97-168PR	35	33	27	38	30	28
HC97-235PR	38	36	30	42	33	26
HC97-1691	37	37	31	41	29	30
HC97-1867	38	40	32	41	39	29
HC97-4182	21	22	12	23	11	21
HC97-4189	21	23	15	21	14	21
HC98-251	23	24	15	24	12	23
HC98-1082	19	22	12	17	12	18
HC98-1276	45	44	37	49	39	33
HC98-1343	38	38	31	42	34	27
HC98-1367	37	37	29	40	34	26
HC98-4449	22	24	15	21	17	21
K1517	35	31	30	41	29	25
K1519	36	37	29	41	38	27
LN97-15076	38	36	29	43	34	25
LS97-1218	40	37	30	42	33	27
LS98-0582	39	40	29	44	31	27
LS98-1386	40	37	33	44	39	28
Md96-5722	40	37	31	45	40	28

UNIFORM TEST IV, 2002

PLANT HEIGHT (inches)

Strain	Queenstown MD	Kingdom City MO	Portageville (Clay) MO	Portageville (Loam) MO	Mt. Orab OH	South Charleston OH
HS93-4118 (IV)	26	21	26	26	21	33
LS93-0375 (SCN)	27	26	28	28	24	34
Macon (III)	30	23	24	24	21	35
Strong (dt1)	20	13	12	14	18	22
HC96-182PR	33	26	30	31	26	38
HC97-168PR	30	27	32	33	25	34
HC97-235PR	30	29	32	33	28	36
HC97-1691	34	29	34	35	24	38
HC97-1867	37	28	34	35	27	41
HC97-4182	20	12	15	16	15	21
HC97-4189	20	13	14	15	17	22
HC98-251	21	17	14	15	18	22
HC98-1082	18	13	12	14	14	18
HC98-1276	39	29	38	38	27	45
HC98-1343	35	32	35	36	29	37
HC98-1367	31	26	35	36	27	39
HC98-4449	21	16	17	18	18	20
K1517	28	24	29	29	23	33
K1519	30	27	37	37	28	37
LN97-15076	30	27	35	35	23	36
LS97-1218	31	27	34	34	23	37
LS98-0582	32	27	35	35	27	38
LS98-1386	31	27	37	37	26	39
Md96-5722	34	26	36	36	27	36

UNIFORM TEST IV, 2002

SEED SIZE (g/100)

Strain	Mean 14 Tests	Fayetteville* irrigated AR	Keiser* irrigated AR	Rohwer* irrigated AR	Georgetown DE	Belleville IL	Harrisburg IL
HS93-4118 (IV)	15.1	14.2	14.6	15.2		12.9	13.5
LS93-0375 (SCN)	16.2	13.8	15.0	15.1		14.6	13.6
Macon (III)	16.2	14.3	15.1	15.4		14.7	14.3
Strong (dt1)	17.0	14.7	16.6	16.4		16.6	14.1
HC96-182PR	14.4	13.1	12.0	13.8		12.8	12.7
HC97-168PR	14.0	12.8	13.2	13.2		12.8	12.2
HC97-235PR	13.2	13.5	11.5	12.0		11.8	12.4
HC97-1691	12.8	13.9	10.5	11.4		11.2	13.0
HC97-1867	14.0	15.0	11.8	11.9		12.0	12.3
HC97-4182	17.7	14.9	18.0	18.3		17.1	14.0
HC97-4189	17.3	13.4	17.1	16.1		16.7	15.7
HC98-251	15.7	14.1	14.2	15.2		14.9	14.2
HC98-1082	15.8	12.6	11.7	12.8		15.5	14.6
HC98-1276	12.8	13.6	10.8	11.1		11.2	13.7
HC98-1343	14.3	13.3	12.7	12.2		12.5	13.5
HC98-1367	14.2	12.9	12.9	13.4		12.7	13.1
HC98-4449	15.6	12.2	16.0	14.3		13.6	14.4
K1517	13.9	14.6	15.9	15.5		12.3	12.6
K1519	13.6	14.3	11.8	11.7		11.4	11.7
LN97-15076	15.5	17.2	13.6	13.8		13.5	13.1
LS97-1218	13.9	15.1	14.2	12.9		11.7	12.5
LS98-0582	14.7	13.7	14.2	13.1		12.5	13.5
LS98-1386	16.6	15.1	13.8	16.8		14.6	14.7
Md96-5722	17.0	16.8	17.0	11.3		14.8	15.1

* Data not included in mean.

UNIFORM TEST IV, 2002

SEED SIZE (g/100)

Strain	Newtown IL	Urbana IL	Butlerville IN	Lafayette IN	Manhattan KS	Ottawa KS
HS93-4118 (IV)	13.0	18.1	13.0	15.9	16.2	13.1
LS93-0375 (SCN)	15.0	19.3	13.5	17.3	15.1	13.3
Macon (III)	15.2	20.1	13.4	17.8	16.5	11.8
Strong (dt1)	17.1	20.8	15.3	20.2	17.5	12.6
HC96-182PR	13.3	16.6	12.9	15.4	15.2	11.3
HC97-168PR	13.3	17.1	11.3	15.1	15.0	12.0
HC97-235PR	13.1	16.0	10.3	15.0	16.3	10.4
HC97-1691	12.6	13.9	10.1	14.4	14.1	10.8
HC97-1867	14.5	16.9	13.2	16.4	15.8	10.3
HC97-4182	19.5	22.2	16.6	19.4	18.2	13.6
HC97-4189	18.7	20.6	15.2	19.4	16.7	14.0
HC98-251	15.2	20.0	13.8	18.1	17.4	12.6
HC98-1082	15.9	18.9	13.3	19.1	12.9	13.0
HC98-1276	12.5	14.5	10.7	13.5	13.8	10.4
HC98-1343	14.5	16.4	11.9	15.5	16.9	11.3
HC98-1367	13.3	15.2	13.3	15.5	15.4	12.2
HC98-4449	15.7	19.0	15.0	17.9	15.1	12.9
K1517	12.7	17.2	12.3	15.2	15.5	11.7
K1519	13.2	16.4	11.6	14.8	15.5	10.6
LN97-15076	13.7	19.0	13.2	17.1	16.4	12.7
LS97-1218	13.2	16.2	11.8	15.1	15.0	11.5
LS98-0582	13.7	16.6	13.3	16.3	16.1	12.4
LS98-1386	15.4	18.8	15.2	17.5	18.7	12.9
Md96-5722	16.4	19.9	15.9	18.2	18.1	13.2

UNIFORM TEST IV, 2002

SEED SIZE (g/100)

Strain	Queenstown MD	Kingdom City MO	Portageville (Clay) MO	Portageville (Loam) MO	Mt. Orab OH	South Charleston OH
HS93-4118 (IV)	14.8	18.0	16.1	13.4	18.3	15.3
LS93-0375 (SCN)	16.1	20.0	18.0	15.0	19.5	16.4
Macon (III)	14.9	18.0	18.1	15.6	18.2	17.6
Strong (dt1)	14.2	19.0	17.2	14.8	19.5	18.8
HC96-182PR	14.1	16.0	16.4	13.3	16.1	14.9
HC97-168PR	12.1	15.0	15.7	13.6	16.4	14.5
HC97-235PR	13.4	13.0	13.4	12.5	14.1	13.6
HC97-1691	12.0	15.0	13.1	12.2	14.1	13.2
HC97-1867	12.6	16.0	14.0	12.6	14.9	14.6
HC97-4182	15.2	20.0	16.8	15.9	20.4	18.8
HC97-4189	15.0	20.0	18.1	15.6	19.3	17.6
HC98-251	12.7	17.0	16.0	13.6	17.3	17.0
HC98-1082	13.5	18.0	17.4	13.6	19.1	16.7
HC98-1276	12.9	14.0	12.4	12.0	13.9	13.0
HC98-1343	13.4	16.0	14.5	13.2	15.3	14.9
HC98-1367	13.2	16.0	15.4	13.8	15.8	14.6
HC98-4449	13.2	16.0	17.0	13.8	18.2	16.8
K1517	13.8	15.0	14.5	12.5	15.9	13.9
K1519	14.3	16.0	13.4	13.3	15.3	13.4
LN97-15076	14.6	18.0	16.2	15.4	17.3	16.3
LS97-1218	13.0	17.0	14.0	12.3	17.0	14.7
LS98-0582	13.6	16.0	15.4	13.7	17.0	15.2
LS98-1386	16.7	19.0	17.1	14.9	19.4	17.3
Md96-5722	15.9	19.0	17.9	16.5	19.2	18.0

UNIFORM TEST IV, 2002

SEED QUALITY (score)

Strain	Mean 14 Tests	Fayetteville* irrigated AR	Keiser* irrigated AR	Rohwer* irrigated AR	Georgetown DE	Belleville IL	Harrisburg IL
HS93-4118 (IV)	2.8	3.8	2.5	3.5		3.0	4.0
LS93-0375 (SCN)	2.2	3.8	3.3	3.0		1.0	3.0
Macon (III)	2.2	3.0	2.2	3.5		1.0	3.0
Strong (dt1)	2.5	3.0	2.7	3.5		3.0	3.0
HC96-182PR	2.2	2.8	2.8	2.8		1.0	3.0
HC97-168PR	1.9	3.8	2.5	2.3		1.0	3.0
HC97-235PR	1.9	3.7	2.7	2.5		1.0	3.0
HC97-1691	2.2	3.8	2.8	3.0		1.0	3.0
HC97-1867	2.4	3.8	2.8	2.8		1.0	4.0
HC97-4182	3.0	4.3	3.0	4.0		2.0	5.0
HC97-4189	2.8	5.0	3.3	3.8		2.0	5.0
HC98-251	1.9	3.0	2.3	2.8		1.0	3.0
HC98-1082	2.6	3.8	2.2	2.8		3.0	4.0
HC98-1276	2.2	3.7	2.7	2.3		2.0	4.0
HC98-1343	1.9	3.8	3.2	2.7		1.0	4.0
HC98-1367	2.0	2.5	2.2	2.5		1.0	5.0
HC98-4449	2.4	3.0	4.0	3.5		2.0	4.0
K1517	1.9	3.3	3.8	3.3		1.0	3.0
K1519	2.2	4.0	3.8	4.3		2.0	3.0
LN97-15076	2.3	5.0	2.5	3.5		2.0	4.0
LS97-1218	1.9	4.3	2.7	2.7		1.0	3.0
LS98-0582	2.0	4.0	3.2	2.5		2.0	3.0
LS98-1386	2.2	3.5	2.7	2.8		1.0	5.0
Md96-5722	2.5	4.5	3.0	4.5		1.0	4.0

* Data not included in mean.

UNIFORM TEST IV, 2002

SEED QUALITY (score)

Strain	Newtown IL	Urbana IL	Butlerville IN	Lafayette IN	Manhattan KS	Ottawa KS
HS93-4118 (IV)	1.5	2.5	1.5	1.0	3.0	3.0
LS93-0375 (SCN)	1.5	2.5	1.0	1.0	2.0	2.0
Macon (III)	2.0	2.0	1.0	1.0	3.0	2.0
Strong (dt1)	1.5	2.0	1.0	1.0	2.0	3.0
HC96-182PR	2.0	2.0	1.0	1.0	2.0	2.0
HC97-168PR	1.5	2.0	1.0	1.0	2.0	2.0
HC97-235PR	1.5	2.0	1.0	1.0	2.0	2.0
HC97-1691	1.5	2.0	1.0	1.0	2.0	3.0
HC97-1867	2.0	2.5	1.0	1.0	2.0	3.0
HC97-4182	2.0	2.5	1.0	1.0	3.0	3.0
HC97-4189	2.0	2.0	1.5	1.0	3.0	3.0
HC98-251	1.5	2.0	1.0	1.0	2.0	2.0
HC98-1082	1.5	2.0	1.0	1.0	3.0	2.0
HC98-1276	2.0	2.0	1.0	1.0	2.0	2.0
HC98-1343	1.5	2.0	1.0	1.0	2.0	2.0
HC98-1367	1.5	2.0	1.0	1.0	2.0	2.0
HC98-4449	1.5	2.0	1.0	1.0	2.0	2.0
K1517	1.5	2.0	1.0	1.0	2.0	2.0
K1519	1.0	2.0	1.0	1.0	2.0	2.0
LN97-15076	1.5	2.0	1.0	1.0	2.0	3.0
LS97-1218	1.0	1.5	1.0	1.0	2.0	2.0
LS98-0582	1.5	2.0	1.0	1.0	2.0	2.0
LS98-1386	1.5	2.5	1.0	1.0	3.0	2.0
Md96-5722	1.5	2.5	1.0	1.0	2.0	3.0

UNIFORM TEST IV, 2002

SEED QUALITY (score)

Strain	Queenstown MD	Kingdom City MO	Portageville (Clay) MO	Portageville (Loam) MO	Mt. Orab OH	South Charleston OH
HS93-4118 (IV)	3.2	4.0	4.0	3.0	3.8	1.5
LS93-0375 (SCN)	1.7	5.0	3.0	3.0	2.5	1.5
Macon (III)	2.0	3.0	4.0	3.0	1.8	1.5
Strong (dt1)	3.3	3.0	4.0	3.0	4.0	1.5
HC96-182PR	2.8	2.0	4.0	4.0	1.8	1.7
HC97-168PR	2.7	2.0	3.0	2.0	1.8	1.5
HC97-235PR	2.5	2.0	3.0	3.0	1.5	1.5
HC97-1691	2.8	3.0	3.0	4.0	1.8	1.5
HC97-1867	4.2	3.0	3.0	3.0	2.0	1.7
HC97-4182	4.0	5.0	4.0	4.0	3.8	1.5
HC97-4189	4.2	4.0	4.0	3.0	3.3	1.5
HC98-251	2.5	2.0	3.0	3.0	1.5	0.8
HC98-1082	4.5	2.0	4.0	3.0	3.8	1.0
HC98-1276	2.3	2.0	3.0	3.0	2.0	1.8
HC98-1343	1.7	2.0	3.0	2.0	2.0	1.7
HC98-1367	2.7	2.0	3.0	2.0	1.8	1.5
HC98-4449	3.8	3.0	4.0	3.0	3.0	1.3
K1517	1.8	3.0	3.0	2.0	2.0	1.5
K1519	1.8	3.0	3.0	3.0	4.0	1.3
LN97-15076	3.7	3.0	3.0	2.0	2.2	1.7
LS97-1218	2.0	3.0	3.0	3.0	2.0	1.5
LS98-0582	2.0	3.0	3.0	2.0	1.8	1.5
LS98-1386	3.0	3.0	3.0	2.0	1.8	1.3
Md96-5722	3.3	3.0	4.0	4.0	3.5	1.7

UNIFORM TEST IV, 2002

GREEN STEM (score)

Strain	Mean 3 Tests	Butlerville IN	Lafayette IN	Kingdom City MO
HS93-4118 (IV)	2.3	1.0	1.0	5.0
LS93-0375 (SCN)	2.0	1.0	1.0	4.0
Macon (III)	1.7	1.0	1.0	3.0
Strong (dt1)	2.0	1.0	2.0	3.0
HC96-182PR	2.3	3.0	2.0	2.0
HC97-168PR	1.0	1.0	1.0	1.0
HC97-235PR	1.3	1.0	2.0	1.0
HC97-1691	1.7	1.0	2.0	2.0
HC97-1867	1.3	1.0	1.0	2.0
HC97-4182	2.3	1.0	1.0	5.0
HC97-4189	3.0	1.0	3.0	5.0
HC98-251	2.3	1.0	1.0	5.0
HC98-1082	2.7	2.0	1.0	5.0
HC98-1276	1.0	1.0	1.0	1.0
HC98-1343	1.7	1.0	1.0	3.0
HC98-1367	2.0	1.0	1.0	4.0
HC98-4449	2.3	1.0	1.0	5.0
K1517	2.7	1.0	2.0	5.0
K1519	2.0	1.0	2.0	3.0
LN97-15076	2.3	1.0	1.0	5.0
LS97-1218	2.3	1.0	1.0	5.0
LS98-0582	3.3	2.0	3.0	5.0
LS98-1386	3.3	2.0	3.0	5.0
Md96-5722	2.3	1.0	1.0	5.0

UNIFORM TEST IV, 2002

PROTEIN (%)

Strain	Mean 4 Tests	Newton IL	Butlerville IN	Lafayette IN	Mt. Orab OH
HS93-4118 (IV)	41.3	42.4	40.2	40.9	41.5
LS93-0375 (SCN)	41.3	41.1	39.6	42.2	42.3
Macon (III)	41.0	42.3	38.1	41.3	42.2
Strong (dt1)	42.7	43.4	40.4	43.1	43.8
HC96-182PR	42.5	44.2	39.9	43.5	42.6
HC97-168PR	44.1	46.2	41.5	44.1	44.5
HC97-235PR	42.8	44.2	40.8	43.5	42.6
HC97-1691	42.9	44.7	39.2	44.0	43.7
HC97-1867	41.6	43.2	38.9	41.9	42.4
HC97-4182	41.5	42.3	39.8	42.6	41.4
HC97-4189	41.7	43.0	40.5	40.7	42.7
HC98-251	40.8	43.0	37.8	40.3	42.0
HC98-1082	41.8	42.4	39.1	42.3	43.5
HC98-1276	40.4	41.7	38.1	40.9	41.1
HC98-1343	42.4	43.7	40.9	42.5	42.3
HC98-1367	43.3	44.6	40.6	44.9	43.1
HC98-4449	41.6	42.2	40.2	42.1	42.1
K1517	41.5	41.9	38.5	42.4	43.3
K1519	41.8	42.9	40.3	42.3	41.8
LN97-15076	41.4	42.2	38.9	42.5	41.9
LS97-1218	40.7	41.1	38.3	40.8	42.7
LS98-0582	41.3	41.5	39.4	41.9	42.2
LS98-1386	40.8	41.5	38.4	41.2	42.1
Md96-5722	41.3	41.7	39.1	42.1	42.3

UNIFORM TEST IV, 2002

OIL (%)

Strain	Mean 4 Tests	Newton IL	Butlerville IN	Lafayette IN	Mt. Orab OH
HS93-4118 (IV)	19.6	19.1	20.1	18.8	20.5
LS93-0375 (SCN)	20.1	19.6	21.1	19.2	20.3
Macon (III)	20.7	20.5	21.9	19.1	21.4
Strong (dt1)	20.3	20.2	21.1	19.1	20.7
HC96-182PR	21.1	20.5	22.5	19.6	21.8
HC97-168PR	19.6	18.8	20.5	18.5	20.5
HC97-235PR	20.3	19.9	21.0	18.4	21.6
HC97-1691	21.1	20.9	21.9	19.9	21.7
HC97-1867	21.0	21.1	21.2	19.7	22.0
HC97-4182	19.7	20.0	21.5	19.5	17.7
HC97-4189	20.4	18.9	21.0	20.5	21.1
HC98-251	20.9	20.0	22.4	19.3	21.9
HC98-1082	19.8	19.4	21.0	18.9	20.1
HC98-1276	21.2	20.8	22.6	20.2	21.2
HC98-1343	19.8	20.2	21.1	17.7	20.0
HC98-1367	20.4	20.4	22.0	19.1	20.2
HC98-4449	20.3	19.9	20.7	19.5	21.1
K1517	20.7	20.6	21.9	19.6	20.7
K1519	20.1	20.3	20.6	19.2	20.3
LN97-15076	20.3	20.3	22.2	18.0	20.6
LS97-1218	20.3	20.3	21.3	19.2	20.5
LS98-0582	19.0	20.0	18.4	18.2	19.6
LS98-1386	20.6	20.5	21.5	19.2	21.3
Md96-5722	20.7	20.7	21.0	18.9	22.1

Ent.	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.	C2023	C1894 x A93-554045	F5	
6.	C2024	Savoy x CRS7C1-13-1	F5	Rps1b, Rps3
7.	C2027	HS93-4118 x A93-552028	F5	
8.	HC97-4621	DPL-3776 x HC78-676-3	F5	dt1
9.	HC98-1360	Stressland x HC89-2436	F5	Dt1
10.	HC98-1584	HC89-2165 x Stressland	F5	Dt1
11.	HC99-76PR	HC85-6723B(5) x Charleston BC	BC4F3	dt1
12.	HC99-113PR	HC89-2241(4) x Resnick	BC3F3	Dt1
13.	HC99-115PR	HC89-2241(4) x Resnick	BC3F3	Dt1
14.	HC99-117PR	HC89-2241(4) x Resnick	BC3F3	Dt1
15.	HC99-118PR	HC89-2241(4) x Resnick	BC3F3	Dt1
16.	HC99-475	PR94-82 x HC91-1354	F5	dt1
17.	HC99-545	PR94-82 x Stressland	F5	dt1
18.	HC99-714	PR94-82 x HC91-1354	F5	dt1
19.	HC99-875	PR94-85 x PR94-82	F5	dt1
20.	HC99-1016	PR94-85 x PR94-82	F5	dt1
21.	HC99-1261	[PR93-21 x Jack](2) x Charleston BC	BC1F3	dt1
22.	HC99-1267	LN90-4524 x PR84-829	F5	dt1
23.	HC99-2533	PR94-82 x Croton 3.9	F5	Dt1
24.	HC99-2539	PR94-82 x Croton 3.9	F5	Dt1
25.	HC99-2598	Streesland x HC90-3067	F5	Dt1
26.	HC99-2752	DPL-3478 x Stressland	F5	Dt1
27.	HC99-2762	DPL-3478 x Stressland	F5	Dt1
28.	HS0-3251	HS93-4118 x Kottman	F5	
29.	K1565	BP: HS93-4168, LS92-3660, Stressland, Macon	F5	
30.	K1566	BP: P9393, NK s42-60, NK S46-44, Ky90-1208	F5	
31.	K1567	BP: A93-754028, P9362, P9341	F5	
32.	K1568	HS93-4118 x Ky91-1352	F5	
33.	K1569	BP: Ky90-1208, P9521, HS93-4118, LS90-3660	F5	
34.	K1570	G91-7320 x Probst	F5	
35.	K1571	BP: CX411 x Delsoy 5500, KS4895, A94-774016	F5	
36.	K1572	BP: Macon, NK S42-60, NK S46-44, K1307	F5	
37.	K1573	G91-7320 x Probst	F5	
38.	LD99-11156	Yale x Cisne	F5	
39.	LD99-14419	LN89-5717 x LN89-3615	F5	
40.	LG00-6306	F6 PI 574.480B x PI 574.477	F6	
41.	LG00-6313	F6 PI 574.480B x PI 574.477	F6	
42.	LG97-9685	F6 LG89-1525 x A3322	F6	
43.	LG99-8924	F6 LG89-6607 x Probst	F6	
44.	LS99-1121	A92-726004 x LS92-1800	F6	SCN
45.	LS99-2235	Bell x P9451	F6	SCN
46.	LS99-3346	DK469c x LN90-3364	F6	SCN
47.	Md99-6056	SS91-7138 x Omaha	F5	
48.	Md99-6079	SS91-7138 x Corsica	F5	
49.	Md99-6085	SS91-7138 x Corsica	F5	

PRELIMINARY TEST IV, 2002

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	Shattering Score Manhattan KS	Green Stem Score Kingdom City MO	PR Lafayette Race 4	PR Lafayette Race 7	Hard Seed %	PS Lafayette a %	P&SB n %
HS93-4118 (IV)	WLtBDYIbI	2.0	3.0	S	R	8	8	6
LS93-0375 (SCN)	PRBDYBII	1.0	5.0	S	R	8	10	2
Macon (III)	WTBIYBII	2.0	5.0	S	S	12	10	2
Strong (dt1)	WTTDYBID	1.0	4.0	S	R	14	10	0
C2023	PTTDYIbI	1.0	4.0	R	R	0	6	0
C2024	PTTDYIbI	1.0	1.0	R	R	0	14	2
C2027	WLtBIYIbI	1.0	3.0	S	R	0	16	2
HC97-4621	WTTIYBID	1.0	4.0	R	R	12	14	0
HC98-1360	PTTDYBII	2.0	5.0	S	S	6	16	0
HC98-1584	PTTDYBII	1.0	1.0	S	S	0	8	2
HC99-76PR	WTBSYBID	1.0	5.0	S	S	8	38	4
HC99-113PR	PTTDYBII	1.0	4.0	R	R	0	16	2
HC99-115PR	PTTDYBII	1.0	3.0	H	H	0	22	0
HC99-117PR	PTTDYBII	1.0	2.0	R	R	0	16	2
HC99-118PR	PTTDYBII	1.0	4.0	H	R	12	20	0
HC99-475	PTTDYIbD	1.0	1.0	S	S	0	2	0
HC99-545	PTTDYBID	1.0	3.0	S	S	0	20	0
HC99-714	PTTIYHD	1.0	1.0	R	R	0	4	2
HC99-875	PTTIYBID	1.0	3.0	S	S	0	0	2
HC99-1016	WTTDYBID	1.0	3.0	R	R	0	0	0
HC99-1261	WTTDYIbD	1.0	2.0	S	S	0	4	0
HC99-1267	PTTSYLbID	1.0	1.0	S	S	0	12	0
HC99-2533	PTTSYBII	1.0	2.0	S	S	0	18	0
HC99-2539	PTTSYBII	1.0	1.0	R	R	4	8	0
HC99-2598	PTTDYBII	1.0	2.0	S	S	0	16	2
HC99-2752	PLtBDYBII	3.0	3.0	S	S	0	14	0
HC99-2762	PLtTDYBII	2.0	3.0	S	S	0	6	4
HS0-3251	WLtSIYIbI	2.0	2.0	R	R	0	0	0
K1565	WTSDYBII	1.0	2.0	H	H	4	6	0
K1566	P+WTTDYBI+BrI	1.0	1.0	S	S	0	14	2
K1567	PTTDYBII	1.0	1.0	R	R	0	2	0
K1568	WTTDYBII	1.0	1.0	S	S	6	0	2
K1569	WLtBDYBII	1.0	4.0	H	R	0	4	0
K1570	PTTDYBII	2.0	1.0	S	S	0	12	0
K1571	WGTDYBfI	1.0	3.0	S	S	0	18	2
K1572	WTBDYBII	1.0	4.0	S	S	0	?x	0
K1573	PTSDYBII	1.0	1.0	R	R	2	14	6
LD99-11156	WGTSYBfI	2.0	2.0	R	H	0	32	4
LD99-14419	PTTSYGrI	2.0	1.0	R	H	10	6	0
LG00-6306	PTBDYLbII	1.0	2.0	S	S	0	8	2
LG00-6313	PTBDYIbI	1.0	1.0	S	S	0	10	0
LG97-9685	WTTSYGrI	1.0	2.0	S	S	12	6	0
LG99-8924	P+WTTDYIbD	1.0	3.0	R	R	0	2	0
LS99-1121	WTBIYBII	2.0	2.0	S	S	4	24	0
LS99-2235	PTTIYBII	1.0	1.0	S	S	0	12	8
LS99-3346	WTBDYBII	1.0	2.0	H	R	0	6	4
Md99-6056	WTTSYBII	2.0	4.0	R	R	0	12	2
Md99-6079	WTBIYIbI	2.0	5.0	S	S	0	10	8
Md99-6085	PTTDYBII	2.0	3.0	S	S	6	6	14

PRELIMINARY TEST IV, 2002

REGIONAL SUMMARY

No. of Tests Strain	Yield 7 bu/a	Rank 7 No.	Maturity 10 Date	Lodging 10 Score	Plant Height 9 IL.	Seed Size 10 g/100	Seed Quality 10 Score	Composition Protein 4 %	 Oil 4 %
HS93-4118 (IV)	49.9	22	9/24	1.1	29	15.5	2.5	40.8	19.9
LS93-0375 (SCN)	51.6	11	1.9	1.1	31	16.6	2.5	41.4	20.0
Macon (III)	49.7	27	1.1	1.2	28	16.0	2.2	41.0	20.6
Strong (dt1)	43.5	43	0.7	1.0	19	17.0	2.3	42.2	20.0
C2023	46.0	42	1.9	1.2	32	16.9	2.5	42.6	18.8
C2024	47.0	37	-3.3	1.0	28	13.9	2.0	45.0	19.1
C2027	50.1	18	-0.4	1.2	27	14.8	2.6	41.2	20.0
HC97-4621	42.9	45	3.9	1.0	18	16.4	2.3	40.9	20.3
HC98-1360	51.2	12	1.8	1.8	37	13.7	2.2	43.1	20.8
HC98-1584	50.8	15	0.5	1.7	36	12.4	1.8	43.0	19.9
HC99-76PR	40.0	48	3.5	1.1	19	16.6	2.7	43.5	19.8
HC99-113PR	47.7	35	0.6	1.7	34	14.0	2.1	42.8	20.0
HC99-115PR	49.3	29	1.0	1.6	33	13.7	2.2	41.7	20.4
HC99-117PR	48.4	32	-1.1	1.7	33	13.2	2.3	43.1	19.9
HC99-118PR	49.8	24	1.7	1.6	34	13.7	2.1	43.0	20.0
HC99-475	46.5	40	-0.6	1.2	19	14.0	2.0	41.4	20.1
HC99-545	41.2	47	0.1	1.0	15	14.4	2.1	42.6	20.1
HC99-714	47.3	36	0.4	1.0	19	13.3	1.9	39.3	21.3
HC99-875	43.5	43	-0.8	1.1	18	15.1	2.1	42.2	19.8
HC99-1016	42.9	45	0.5	1.0	16	15.2	2.0	40.5	21.1
HC99-1261	49.4	28	1.4	1.1	19	13.1	2.1	40.8	20.5
HC99-1267	39.4	49	-1.0	1.0	17	15.0	2.6	42.0	20.6
HC99-2533	49.8	24	3.3	2.0	38	16.3	2.4	41.9	20.7
HC99-2539	50.0	20	2.4	1.9	38	15.3	2.5	42.3	20.9
HC99-2598	46.8	38	3.2	1.8	40	14.1	2.5	42.2	20.0
HC99-2752	52.2	7	4.3	1.6	35	14.7	2.2	41.8	19.4
HC99-2762	52.8	6	-0.6	1.1	29	15.7	2.4	42.0	21.1
HS0-3251	50.0	20	-1.8	1.1	29	13.6	2.2	41.7	20.0
K1565	51.0	14	5.9	1.2	30	14.2	2.1	42.0	20.1
K1566	54.4	2	4.6	1.3	30	15.2	2.0	42.7	19.9
K1567	51.7	9	5.4	1.5	33	16.8	2.4	39.6	21.6
K1568	49.9	22	3.9	1.3	33	15.0	2.2	41.8	19.0
K1569	50.8	15	1.4	1.6	33	14.6	2.2	42.3	18.9
K1570	49.2	30	5.7	2.0	35	14.9	2.1	41.2	20.1
K1571	48.9	31	1.5	1.1	28	15.5	2.2	40.7	19.4
K1572	53.9	3	3.9	1.5	34	16.4	2.3	41.6	20.0
K1573	50.4	17	5.1	1.8	35	14.1	2.0	41.3	20.0
LD99-11156	53.3	4	-0.3	1.4	31	16.0	2.2	41.0	21.5
LD99-14419	48.4	32	4.7	1.1	29	13.9	2.1	43.7	19.8
LG00-6306	52.1	8	3.2	1.8	31	17.3	2.1	39.9	20.1
LG00-6313	52.9	5	4.3	1.7	31	16.6	2.5	39.4	20.4
LG97-9685	46.6	39	3.9	1.5	35	15.5	2.5	40.3	20.0
LG99-8924	50.1	18	0.4	1.1	23	14.7	2.5	40.0	20.6
LS99-1121	48.3	34	5.6	1.1	34	15.4	2.5	42.3	19.8
LS99-2235	55.0	1	1.8	1.5	33	15.1	2.2	40.9	20.3
LS99-3346	51.1	13	1.7	1.3	34	14.2	2.0	40.3	20.1
Md99-6056	51.7	9	0.1	1.3	31	14.3	2.0	41.3	21.2
Md99-6079	46.3	41	2.1	1.5	33	14.1	1.8	42.3	19.4
Md99-6085	49.8	24	3.5	1.5	34	15.8	2.4	42.8	19.7

123.3 Days After Planting

PRELIMINARY TEST IV, 2002

YIELD (bu/a)

Strain	Mean 7 Tests	Belleville IL	Harrisburg IL	Urbana IL	Butlerville* IN	Manhattan KS
HS93-4118 (IV)	49.9	48.8	56.2	64.1	41.0	62.2
LS93-0375 (SCN)	51.6	53.4	59.6	60.7	38.7	67.9
Macon (III)	49.7	53.6	49.8	65.1	41.4	59.3
Strong (dt1)	43.5	44.8	51.5	62.5	29.1	51.8
C2023	46.0	47.2	43.0	59.2	40.7	57.1
C2024	47.0	54.1	53.4	56.3	36.6	64.6
C2027	50.1	54.1	53.0	67.5	43.7	70.2
HC97-4621	42.9	52.6	50.0	57.5	13.8	47.7
HC98-1360	51.2	55.8	48.7	59.6	43.4	68.5
HC98-1584	50.8	56.0	55.1	59.6	45.0	67.3
HC99-76PR	40.0	42.4	47.2	61.9	4.8	35.8
HC99-113PR	47.7	49.0	50.6	56.9	38.6	61.2
HC99-115PR	49.3	53.9	49.9	55.9	35.8	47.9
HC99-117PR	48.4	50.0	56.2	56.8	42.7	56.8
HC99-118PR	49.8	55.1	60.7	55.3	42.8	59.9
HC99-475	46.5	47.9	43.1	62.8	16.4	62.6
HC99-545	41.2	40.9	46.2	62.5	8.1	46.3
HC99-714	47.3	41.9	54.0	63.9	23.1	64.3
HC99-875	43.5	53.1	41.8	61.7	11.0	59.9
HC99-1016	42.9	37.9	58.0	64.5	12.0	48.5
HC99-1261	49.4	54.6	51.8	73.3	19.2	57.4
HC99-1267	39.4	37.2	36.7	67.3	10.1	59.4
HC99-2533	49.8	47.9	56.8	55.4	36.0	63.1
HC99-2539	50.0	53.8	56.4	58.9	46.3	64.1
HC99-2598	46.8	46.3	45.1	56.4	38.7	51.1
HC99-2752	52.2	55.7	49.0	60.3	46.1	62.7
HC99-2762	52.8	57.0	61.7	64.6	26.3	61.4
HS0-3251	50.0	47.9	55.0	62.6	35.5	74.5
K1565	51.0	56.5	54.9	61.5	20.7	68.9
K1566	54.4	57.1	55.5	63.1	37.6	76.0
K1567	51.7	58.3	41.6	65.3	42.5	64.6
K1568	49.9	51.3	49.1	62.0	41.3	65.3
K1569	50.8	56.7	61.1	59.8	44.2	60.7
K1570	49.2	45.1	56.1	57.6	37.5	60.3
K1571	48.9	47.5	61.5	58.3	31.6	68.8
K1572	53.9	59.9	57.0	67.3	35.8	67.8
K1573	50.4	59.4	49.6	57.8	50.7	60.3
LD99-11156	53.3	60.3	60.3	59.5	38.7	60.9
LD99-14419	48.4	50.6	45.6	59.1	38.5	57.9
LG00-6306	52.1	56.5	58.6	61.3	57.2	59.6
LG00-6313	52.9	55.5	52.7	61.1	23.8	64.6
LG97-9685	46.6	49.1	35.8	64.5	12.4	61.4
LG99-8924	50.1	45.5	54.8	69.1	15.3	73.2
LS99-1121	48.3	60.5	57.1	50.2	28.5	59.2
LS99-2235	55.0	58.5	65.0	66.2	35.3	63.2
LS99-3346	51.1	55.8	55.2	59.9	28.0	58.9
Md99-6056	51.7	51.9	55.2	66.7	29.2	66.1
Md99-6079	46.3	50.0	47.3	56.8	34.9	64.9
Md99-6085	49.8	54.4	53.4	54.9	37.8	63.3
C.V. (%)		6.6	13.9	5.5	20.5	8.9
L.S.D. (5%)		14.7	13.2	6.7	13.4	11.0
Row Sp. (IN.)		30	30	30	26	30
Rows/Plot		4	4	4	4	4
Reps		3	2	2	2	2

* Data not included in mean.

PRELIMINARY TEST IV, 2002

YIELD (bu/a)

Strain	Queenstown* MD	Kingdom City MO	Portageville (Loam) MO	Mt. Orab OH	Jackson* TN
HS93-4118 (IV)	33.0	36.5	45.0	36.6	23.7
LS93-0375 (SCN)	31.4	41.4	40.2	38.3	12.5
Macon (III)	18.4	39.3	39.2	41.7	19.7
Strong (dt1)	26.5	37.6	26.9	29.5	19.7
C2023	29.0	40.2	35.3	39.9	24.6
C2024	31.9	35.0	29.2	36.7	26.7
C2027	23.7	30.3	43.6	31.9	13.5
HC97-4621	34.2	30.8	27.2	34.4	29.2
HC98-1360	32.8	44.9	41.8	39.5	27.3
HC98-1584	28.6	43.6	40.7	33.7	19.7
HC99-76PR	21.1	34.2	22.9	35.4	25.9
HC99-113PR	25.2	40.9	36.8	38.3	24.0
HC99-115PR	22.1	43.6	50.3	43.9	27.4
HC99-117PR	19.7	47.7	36.5	35.1	17.4
HC99-118PR	21.5	46.7	36.3	34.5	21.1
HC99-475	29.0	39.4	28.8	40.7	20.4
HC99-545	25.8	32.6	20.7	39.0	29.0
HC99-714	20.0	43.7	23.7	40.0	26.0
HC99-875	20.6	36.4	19.3	32.5	18.9
HC99-1016	19.3	36.4	20.3	34.7	21.9
HC99-1261	16.5	39.5	26.3	42.9	26.5
HC99-1267	17.3	31.4	19.7	24.3	22.8
HC99-2533	28.5	46.8	46.0	32.5	24.5
HC99-2539	20.4	42.4	42.8	31.4	15.9
HC99-2598	17.9	51.3	39.2	38.3	25.8
HC99-2752	21.1	45.9	48.6	43.1	27.1
HC99-2762	19.7	42.0	48.4	34.7	20.7
HS0-3251	21.3	37.4	39.2	33.5	23.4
K1565	26.1	40.4	44.6	30.4	24.5
K1566	38.1	44.3	49.4	35.7	26.1
K1567	36.7	44.4	46.4	41.0	28.6
K1568	32.8	37.8	46.4	37.7	23.9
K1569	33.0	44.1	42.2	30.8	20.4
K1570	28.6	47.1	42.4	36.1	22.7
K1571	31.3	30.8	48.3	27.1	26.0
K1572	25.2	37.6	49.1	38.7	22.9
K1573	35.8	47.7	41.9	36.0	31.9
LD99-11156	22.8	43.8	45.8	42.4	10.9
LD99-14419	25.9	43.0	46.4	36.5	28.9
LG00-6306	29.5	34.4	49.3	45.2	17.5
LG00-6313	29.8	42.9	51.3	42.2	24.5
LG97-9685	28.2	42.2	42.3	31.0	25.9
LG99-8924	23.4	40.5	36.0	31.9	15.9
LS99-1121	34.5	42.8	38.2	30.2	34.3
LS99-2235	33.9	40.7	51.7	39.8	13.4
LS99-3346	36.6	44.4	47.7	35.9	18.9
Md99-6056	34.3	38.6	44.2	38.9	16.7
Md99-6079	37.3	33.4	38.6	33.3	21.8
Md99-6085	30.6	41.4	45.1	36.0	23.5
C.V. (%)	22.8	6.7	7.5	14.0	27.3
L.S.D. (5%)	12.5	4.5	5.0	10.3	12.5
Row Sp. (IN.)	24	30	30	15	30
Rows/Plot	4	4	4	6	2
Reps	2	2	3	2	2

* Data not included in mean.

PRELIMINARY TEST IV, 2002

YIELD RANK

Strain	Yield Rank	Belleville IL	Harrisburg IL	Urbana IL	Butlerville IN	Manhattan KS
HS93-4118 (IV)	22	35	14	13	14	25
LS93-0375 (SCN)	11	25	7	26	16	8
Macon (III)	27	24	34	9	12	37
Strong (dt1)	43	44	30	18	33	44
C2023	42	40	45	33	15	42
C2024	37	20	25	44	24	15
C2027	18	20	27	3	7	4
HC97-4621	45	27	32	39	43	48
HC98-1360	12	13	38	30	8	7
HC98-1584	15	12	20	30	5	10
HC99-76PR	48	45	40	21	49	50
HC99-113PR	35	34	31	40	19	28
HC99-115PR	29	22	33	45	26	47
HC99-117PR	32	31	14	41	10	43
HC99-118PR	24	17	5	47	9	33
HC99-475	40	36	44	16	41	24
HC99-545	47	47	41	18	48	49
HC99-714	36	46	24	14	38	18
HC99-875	43	26	46	22	46	33
HC99-1016	45	48	9	11	45	46
HC99-1261	28	18	29	1	40	41
HC99-1267	49	49	48	4	47	36
HC99-2533	24	36	12	46	25	22
HC99-2539	20	23	13	35	3	19
HC99-2598	38	41	43	43	16	45
HC99-2752	7	15	37	27	4	23
HC99-2762	6	8	2	10	36	26
HS0-3251	20	36	21	17	28	2
K1565	14	10	22	23	39	5
K1566	2	7	17	15	22	1
K1567	9	6	47	8	11	15
K1568	22	29	36	20	13	13
K1569	15	9	4	29	6	30
K1570	30	43	16	38	23	31
K1571	31	39	3	36	31	6
K1572	3	3	11	4	26	9
K1573	17	4	35	37	2	31
LD99-11156	4	2	6	32	16	29
LD99-14419	32	30	42	34	20	40
LG00-6306	8	11	8	24	1	35
LG00-6313	5	16	28	25	37	15
LG97-9685	39	33	49	11	44	26
LG99-8924	18	42	23	2	42	3
LS99-1121	34	1	10	49	34	38
LS99-2235	1	5	1	7	29	21
LS99-3346	13	14	18	28	35	39
Md99-6056	9	28	18	6	32	12
Md99-6079	41	32	39	41	30	14
Md99-6085	24	19	25	48	21	20

PRELIMINARY TEST IV, 2002

YIELD RANK

Strain	Queenstown MD	Kingdom City MO	Portageville (Loam) MO	Mt. Orab OH	Jackson TN
HS93-4118 (IV)	10	38	17	22	24
LS93-0375 (SCN)	15	23	28	17	48
Macon (III)	46	32	29	7	36
Strong (dtl)	26	35	42	47	36
C2023	20	29	38	11	18
C2024	14	41	39	21	10
C2027	32	49	20	40	46
HC97-4621	8	47	41	34	3
HC98-1360	12	8	26	13	8
HC98-1584	22	15	27	35	36
HC99-76PR	38	43	45	29	15
HC99-113PR	30	25	34	17	22
HC99-115PR	35	16	3	2	7
HC99-117PR	43	2	35	30	42
HC99-118PR	36	6	36	33	32
HC99-475	20	31	40	9	34
HC99-545	29	45	46	14	4
HC99-714	42	14	44	10	13
HC99-875	40	39	49	38	39
HC99-1016	45	39	47	31	30
HC99-1261	49	30	43	4	11
HC99-1267	48	46	48	49	28
HC99-2533	24	5	14	38	19
HC99-2539	41	20	21	42	44
HC99-2598	47	1	29	17	17
HC99-2752	38	7	7	3	9
HC99-2762	43	22	8	31	33
HS0-3251	37	37	29	36	26
K1565	27	28	18	45	19
K1566	1	11	4	28	12
K1567	3	9	11	8	6
K1568	12	34	11	20	23
K1569	10	12	24	44	34
K1570	22	4	22	24	29
K1571	16	47	9	48	13
K1572	30	35	6	16	27
K1573	5	2	25	25	2
LD99-11156	34	13	15	5	49
LD99-14419	28	17	11	23	5
LG00-6306	19	42	5	1	41
LG00-6313	18	18	2	6	19
LG97-9685	25	21	23	43	15
LG99-8924	33	27	37	40	44
LS99-1121	6	19	33	46	1
LS99-2235	9	26	1	12	47
LS99-3346	4	9	10	27	39
Md99-6056	7	33	19	15	43
Md99-6079	2	44	32	37	31
Md99-6085	17	23	16	25	25

PRELIMINARY TEST IV, 2002

MATURITY (date)

Strain	Mean 10 Tests	Belleville IL	Harrisburg IL	Urbana IL	Butlerville IN	Manhattan KS
HS93-4118 (IV)	9/24	9/19	9/18	10/6	9/27	10/1
LS93-0375 (SCN)	1.9	4	3	1	1	2
Macon (III)	1.1	3	0	-1	0	0
Strong (dt1)	0.7	4	1	-1	0	3
C2023	1.9	5	0	3	1	2
C2024	-3.3	1	-3	-5	0	-6
C2027	-0.4	2	-1	0	0	0
HC97-4621	3.9	8	2	1	3	3
HC98-1360	1.8	3	1	1	0	2
HC98-1584	0.5	3	2	2	3	2
HC99-76PR	3.5	5	1	0	1	6
HC99-113PR	0.6	3	2	-1	0	0
HC99-115PR	1.0	3	2	-3	1	4
HC99-117PR	-1.1	3	2	-3	0	-1
HC99-118PR	1.7	4	2	-2	0	2
HC99-475	-0.6	4	-3	-1	0	-1
HC99-545	0.1	6	-1	-2	2	1
HC99-714	0.4	3	1	-2	1	3
HC99-875	-0.8	3	1	-3	0	2
HC99-1016	0.5	5	0	-2	1	3
HC99-1261	1.4	6	0	-1	1	2
HC99-1267	-1.0	4	-1	-2	1	1
HC99-2533	3.3	4	2	3	0	4
HC99-2539	2.4	5	2	2	2	3
HC99-2598	3.2	4	1	1	0	9
HC99-2752	4.3	7	1	2	3	7
HC99-2762	-0.6	2	-1	0	1	1
HS0-3251	-1.8	1	-1	1	-3	0
K1565	5.9	7	4	6	5	6
K1566	4.6	9	4	2	6	4
K1567	5.4	6	3	2	6	6
K1568	3.9	6	2	4	4	5
K1569	1.4	5	1	0	1	3
K1570	5.7	6	4	4	4	3
K1571	1.5	5	2	3	1	3
K1572	3.9	7	2	3	3	3
K1573	5.1	8	2	5	6	4
LD99-11156	-0.3	4	2	3	2	1
LD99-14419	4.7	8	2	5	6	1
LG00-6306	3.2	7	3	2	6	1
LG00-6313	4.3	8	5	4	3	3
LG97-9685	3.9	3	3	1	1	3
LG99-8924	0.4	3	-3	1	1	9
LS99-1121	5.6	9	6	4	6	2
LS99-2235	1.8	5	2	-2	2	0
LS99-3346	1.7	2	1	3	2	5
Md99-6056	0.1	4	1	0	1	0
Md99-6079	2.1	3	1	0	1	3
Md99-6085	3.5	3	2	4	1	1
Date Planted	5/24	5/30	5/24	6/3	6/5	5/9
Days to Mature	123	112	117	125	114	145

PRELIMINARY TEST IV, 2002

MATURITY (date)

Strain	Queenstown MD	Kingdom City MO	Portageville (Loam) MO	Mt. Orab OH	Jackson TN
HS93-4118 (IV)	10/6	10/5	9/14	9/26	9/3
LS93-0375 (SCN)	2	-1	0	0	8
Macon (III)	2	-3	-1	-3	14
Strong (dt1)	-1	-1	-6	-3	12
C2023	2	-3	2	-1	8
C2024	-6	-4	-2	-5	-3
C2027	4	-3	-2	-1	-3
HC97-4621	0	-3	-2	1	27
HC98-1360	3	-4	-1	-4	18
HC98-1584	1	-4	-1	-3	0
HC99-76PR	-1	-1	-3	0	27
HC99-113PR	0	-4	-3	-2	12
HC99-115PR	4	-3	-2	-4	8
HC99-117PR	-1	-3	-2	-6	0
HC99-118PR	1	-2	-1	-4	18
HC99-475	0	-4	-3	-3	4
HC99-545	0	-4	-3	-1	4
HC99-714	-1	-4	-1	-3	8
HC99-875	-3	-4	-1	-2	0
HC99-1016	-3	-4	-1	-2	8
HC99-1261	-4	-4	-1	-3	18
HC99-1267	-4	-4	-3	-6	4
HC99-2533	4	-4	3	-4	21
HC99-2539	4	-4	3	-1	8
HC99-2598	6	-3	-2	-1	18
HC99-2752	4	-3	5	-1	18
HC99-2762	-4	-2	-3	-4	4
HS0-3251	-2	-3	-2	-3	-6
K1565	6	-4	6	2	21
K1566	6	-4	7	1	12
K1567	6	-4	2	1	27
K1568	4	-4	5	2	12
K1569	3	-3	1	0	4
K1570	6	-4	7	1	27
K1571	3	-3	5	0	-3
K1572	3	0	7	0	12
K1573	6	-4	5	3	16
LD99-11156	-4	-3	1	-1	-6
LD99-14419	6	-4	7	2	15
LG00-6306	2	-4	7	1	8
LG00-6313	4	-4	8	1	12
LG97-9685	4	-4	4	-2	27
LG99-8924	-1	-4	-3	1	0
LS99-1121	5	-4	7	1	21
LS99-2235	5	-4	5	1	4
LS99-3346	-1	-1	-2	0	8
Md99-6056	1	-4	2	-1	-3
Md99-6079	4	-1	3	0	8
Md99-6085	6	0	1	-1	18
Date Planted	5/29	5/23	5/9	5/24	5/8
Days to Mature	130	135	128	125	118

PRELIMINARY TEST IV, 2002

LODGING (score)

Strain	Mean 10 Tests	Belleville IL	Harrisburg IL	Urbana IL	Butlerville IN	Manhattan KS
HS93-4118 (IV)	1.1	1.0	1.0	1.0	1.0	1.5
LS93-0375 (SCN)	1.1	1.0	1.0	1.0	1.0	1.5
Macon (III)	1.2	1.0	1.0	1.0	1.0	1.5
Strong (dt1)	1.0	1.0	1.0	1.0	1.0	1.0
C2023	1.2	1.0	1.0	1.3	1.0	2.0
C2024	1.0	1.0	1.0	1.0	1.0	1.0
C2027	1.2	1.0	1.0	1.0	1.0	2.5
HC97-4621	1.0	1.0	1.0	1.0	1.0	1.0
HC98-1360	1.8	1.0	2.5	2.0	1.0	3.0
HC98-1584	1.7	1.0	3.0	2.5	1.0	2.5
HC99-76PR	1.1	1.0	1.0	1.3	1.0	1.0
HC99-113PR	1.7	1.0	2.3	2.0	1.0	3.0
HC99-115PR	1.6	1.0	2.0	2.0	1.0	3.0
HC99-117PR	1.7	1.0	2.0	2.3	1.0	3.0
HC99-118PR	1.6	1.0	2.0	2.3	1.0	2.0
HC99-475	1.2	1.0	1.0	1.3	1.0	1.0
HC99-545	1.0	1.0	1.0	1.0	1.0	1.0
HC99-714	1.0	1.0	1.0	1.0	1.0	1.0
HC99-875	1.1	1.0	1.0	1.0	1.0	1.0
HC99-1016	1.0	1.0	1.0	1.0	1.0	1.0
HC99-1261	1.1	1.0	1.0	1.5	1.0	1.0
HC99-1267	1.0	1.0	1.0	1.0	1.0	1.0
HC99-2533	2.0	1.0	3.0	2.8	1.0	3.0
HC99-2539	1.9	1.0	3.0	2.3	1.0	3.0
HC99-2598	1.8	1.0	2.3	2.5	1.0	3.0
HC99-2752	1.6	1.0	2.0	2.0	1.0	3.0
HC99-2762	1.1	1.0	1.0	1.3	1.0	1.5
HS0-3251	1.1	1.0	1.0	1.0	1.0	2.0
K1565	1.2	1.0	1.0	1.0	1.0	2.5
K1566	1.3	1.0	1.0	1.3	1.0	2.0
K1567	1.5	1.0	1.3	1.3	1.3	2.5
K1568	1.3	1.0	1.0	1.3	1.0	2.5
K1569	1.6	1.0	2.5	1.8	1.0	3.0
K1570	2.0	1.0	3.5	2.5	1.0	4.0
K1571	1.1	1.0	1.0	1.0	1.0	1.5
K1572	1.5	1.0	1.0	1.5	1.0	3.5
K1573	1.8	1.0	1.5	2.0	1.0	4.0
LD99-11156	1.4	1.0	1.5	1.5	1.0	2.5
LD99-14419	1.1	1.0	1.0	1.0	1.0	1.0
LG00-6306	1.8	1.0	3.8	1.3	1.0	3.5
LG00-6313	1.7	1.0	2.5	1.3	1.0	3.5
LG97-9685	1.5	1.0	1.0	2.0	1.0	2.5
LG99-8924	1.1	1.0	1.0	1.5	1.0	1.0
LS99-1121	1.1	1.0	1.0	1.0	1.0	1.5
LS99-2235	1.5	1.0	1.5	1.8	1.0	3.0
LS99-3346	1.3	1.0	1.0	1.3	1.0	3.0
Md99-6056	1.3	1.0	1.0	1.3	1.0	2.0
Md99-6079	1.5	1.0	1.5	2.3	1.0	2.0
Md99-6085	1.5	1.0	1.5	1.8	1.0	2.0

PRELIMINARY TEST IV, 2002

LODGING (score)

Strain	Queenstown MD	Kingdom City MO	Portageville (Loam) MO	Mt. Orab OH	Jackson TN
HS93-4118 (IV)	1.5	1.0	1.0	1.0	1.0
LS93-0375 (SCN)	1.5	1.0	1.0	1.0	1.0
Macon (III)	1.8	1.0	1.0	1.0	1.5
Strong (dt1)	1.3	1.0	1.0	1.0	1.0
C2023	1.3	1.0	1.0	1.0	1.5
C2024	1.3	1.0	1.0	1.0	1.0
C2027	1.0	1.0	1.0	1.0	1.0
HC97-4621	1.0	1.0	1.0	1.0	1.0
HC98-1360	2.8	1.0	1.5	1.0	2.0
HC98-1584	2.3	1.0	1.5	1.0	1.0
HC99-76PR	1.5	1.0	1.0	1.0	1.0
HC99-113PR	2.3	1.0	1.5	1.0	2.0
HC99-115PR	2.0	1.0	1.5	1.0	1.5
HC99-117PR	2.0	1.0	2.0	1.0	1.3
HC99-118PR	2.3	1.0	2.0	1.0	1.3
HC99-475	2.3	1.0	1.0	1.0	1.0
HC99-545	1.0	1.0	1.0	1.0	1.0
HC99-714	1.3	1.0	1.0	1.0	1.0
HC99-875	1.5	1.0	1.0	1.0	1.0
HC99-1016	1.3	1.0	1.0	1.0	1.0
HC99-1261	1.5	1.0	1.0	1.0	1.0
HC99-1267	1.0	1.0	1.0	1.0	1.0
HC99-2533	2.3	1.0	2.5	1.0	2.3
HC99-2539	2.3	1.0	2.5	1.0	1.5
HC99-2598	2.3	1.0	2.0	1.0	2.0
HC99-2752	2.0	1.0	2.0	1.0	1.2
HC99-2762	1.5	1.0	1.0	1.0	1.0
HS0-3251	1.0	1.0	1.0	1.0	1.0
K1565	1.3	1.0	1.0	1.0	1.0
K1566	1.5	1.0	2.0	1.0	1.3
K1567	2.3	1.0	2.0	1.0	1.5
K1568	2.0	1.0	1.0	1.0	1.0
K1569	2.0	1.0	1.0	1.0	1.5
K1570	2.0	1.0	2.0	1.0	1.8
K1571	1.0	1.0	1.0	1.0	1.0
K1572	1.8	1.0	2.0	1.0	1.3
K1573	2.5	1.0	2.0	1.0	1.5
LD99-11156	2.0	1.0	1.0	1.0	1.0
LD99-14419	1.5	1.0	1.5	1.0	1.0
LG00-6306	1.8	1.0	2.0	1.0	1.5
LG00-6313	2.0	1.0	2.0	1.0	1.3
LG97-9685	2.3	1.0	1.5	1.0	2.0
LG99-8924	1.0	1.0	1.0	1.0	1.0
LS99-1121	1.3	1.0	1.0	1.0	1.0
LS99-2235	2.0	1.0	1.5	1.0	1.0
LS99-3346	1.8	1.0	1.0	1.0	1.0
Md99-6056	2.0	1.0	1.5	1.0	1.0
Md99-6079	2.0	1.0	2.0	1.0	1.3
Md99-6085	2.0	1.0	1.5	1.0	1.8

PRELIMINARY TEST IV, 2002

PLANT HEIGHT (Inches)

Strain	Mean 9 Tests	Belleville IL	Harrisburg IL	Urbana IL	Butlerville IN	Manhattan KS
HS93-4118 (IV)	29	27	34	35		34
LS93-0375 (SCN)	31	29	34	35		38
Macon (III)	28	28	32	35		34
Strong (dt1)	19	21	22	26		18
C2023	32	33	38	34		41
C2024	28	30	32	32		37
C2027	27	28	32	33		33
HC97-4621	18	24	19	28		18
HC98-1360	37	35	41	42		42
HC98-1584	36	37	40	42		42
HC99-76PR	19	19	17	26		17
HC99-113PR	34	31	38	40		40
HC99-115PR	33	32	38	38		39
HC99-117PR	33	32	41	37		36
HC99-118PR	34	34	40	39		38
HC99-475	19	19	17	23		20
HC99-545	15	15	15	19		14
HC99-714	19	19	23	25		18
HC99-875	18	17	14	23		19
HC99-1016	16	16	18	21		16
HC99-1261	19	20	20	26		20
HC99-1267	17	18	14	23		18
HC99-2533	38	37	46	44		43
HC99-2539	38	41	47	44		43
HC99-2598	40	39	46	47		47
HC99-2752	35	36	42	43		40
HC99-2762	29	29	35	34		33
HS0-3251	29	27	37	34		37
K1565	30	33	38	35		37
K1566	30	31	34	37		36
K1567	33	34	38	42		35
K1568	33	35	38	39		39
K1569	33	34	40	40		38
K1570	35	36	45	44		40
K1571	28	26	35	32		36
K1572	34	35	38	40		41
K1573	35	37	38	41		43
LD99-11156	31	32	35	38		41
LD99-14419	29	31	28	35		40
LG00-6306	31	30	38	36		38
LG00-6313	31	31	34	37		43
LG97-9685	35	33	40	44		43
LG99-8924	23	21	25	29		25
LS99-1121	34	36	43	42		41
LS99-2235	33	34	38	39		39
LS99-3346	34	31	40	41		42
Md99-6056	31	29	33	36		38
Md99-6079	33	31	38	39		36
Md99-6085	34	35	40	41		38

PRELIMINARY TEST IV, 2002

PLANT HEIGHT (Inches)

Strain	Queenstown MD	Kingdom City MO	Portageville (Loam) MO	Mt. Orab OH	Jackson TN
HS93-4118 (IV)	26	22	32	23	29
LS93-0375 (SCN)	31	25	29	25	30
Macon (III)	26	24	24	25	26
Strong (dt1)	19	14	14	19	19
C2023	28	23	28	28	33
C2024	26	23	25	22	29
C2027	24	20	26	21	23
HC97-4621	21	13	11	17	15
HC98-1360	36	28	36	32	38
HC98-1584	32	29	34	32	36
HC99-76PR	21	17	15	20	19
HC99-113PR	33	26	32	30	34
HC99-115PR	29	31	31	26	36
HC99-117PR	33	26	32	26	30
HC99-118PR	31	29	36	25	35
HC99-475	25	16	15	18	19
HC99-545	16	13	11	15	16
HC99-714	22	18	14	19	15
HC99-875	22	16	14	17	19
HC99-1016	17	10	8	18	16
HC99-1261	23	13	12	18	19
HC99-1267	22	10	13	18	21
HC99-2533	35	30	41	31	35
HC99-2539	33	30	40	29	36
HC99-2598	34	34	40	34	38
HC99-2752	27	28		30	34
HC99-2762	25	24	27	24	29
HS0-3251	25	21	27	22	32
K1565	24	22		23	26
K1566	27	24		24	27
K1567	30	27		27	31
K1568	26	26		27	32
K1569	28	26	34	27	33
K1570	33	26		28	32
K1571	25	20		21	31
K1572	30	27		26	32
K1573	31	29		28	35
LD99-11156	26	24	33	27	27
LD99-14419	25	23		22	28
LG00-6306	27	26		25	29
LG00-6313	27	23		24	30
LG97-9685	33	25	36	25	32
LG99-8924	25	23	20	21	22
LS99-1121	28	27		24	31
LS99-2235	29	27		26	29
LS99-3346	30	27	34	25	33
Md99-6056	29	23	32	24	33
Md99-6079	32	23	34	26	36
Md99-6085	31	25	36	26	34

PRELIMINARY TEST IV, 2002

SEED SIZE (g/100)

Strain	Mean 10 Tests	Belleville IL	Harrisburg IL	Urbana IL	Butlerville IN	Manhattan KS
HS93-4118 (IV)	15.5	12.9	13.4	18.1	13.4	19.7
LS93-0375 (SCN)	16.6	13.9	13.5	20.4	15.9	18.5
Macon (III)	16.0	15.1	13.7	20.5	14.6	19.3
Strong (dt1)	17.0	16.1	14.8	22.4	16.3	18.6
C2023	16.9	13.8	13.9	20.3	15.0	19.9
C2024	13.9	12.1	13.1	16.2	12.8	17.2
C2027	14.8	13.2	12.4	17.9	12.8	18.7
HC97-4621	16.4	16.8	13.5	20.6	14.6	17.6
HC98-1360	13.7	12.2	11.9	17.3	11.7	16.4
HC98-1584	12.4	11.2	10.6	15.4	10.3	16.1
HC99-76PR	16.6	15.1	15.3	23.4	17.3	15.0
HC99-113PR	14.0	13.4	11.7	17.1	12.3	17.4
HC99-115PR	13.7	12.7	11.3	16.3	11.5	18.5
HC99-117PR	13.2	11.6	11.7	15.7	12.1	17.2
HC99-118PR	13.7	12.3	12.2	16.7	11.3	17.1
HC99-475	14.0	12.6	11.5	20.0	12.6	15.7
HC99-545	14.4	12.4	12.6	18.2	13.4	14.9
HC99-714	13.3	11.8	11.7	17.4	11.8	16.4
HC99-875	15.1	14.1	12.7	20.7	13.3	16.4
HC99-1016	15.2	14.4	13.6	19.1	14.1	17.4
HC99-1261	13.1	12.2	11.9	18.5	11.4	15.4
HC99-1267	15.0	14.4	13.4	20.3	13.8	18.2
HC99-2533	16.3	13.8	13.1	21.9	14.2	19.6
HC99-2539	15.3	12.7	13.7	19.6	12.4	16.8
HC99-2598	14.1	12.0	11.6	16.9	11.3	18.5
HC99-2752	14.7	12.1	12.8	17.5	11.9	17.7
HC99-2762	15.7	14.4	13.8	20.3	13.9	20.3
HS0-3251	13.6	11.9	11.8	17.0	11.9	17.8
K1565	14.2	12.1	11.6	16.7	12.2	18.4
K1566	15.2	12.1	13.5	18.4	12.9	16.8
K1567	16.8	14.3	13.0	19.5	14.3	20.6
K1568	15.0	12.4	11.4	18.1	12.4	19.3
K1569	14.6	12.0	12.5	16.7	11.5	17.3
K1570	14.9	11.7	12.7	17.6	13.3	18.1
K1571	15.5	13.4	14.5	17.8	15.3	17.4
K1572	16.4	14.3	13.9	19.3	15.5	19.0
K1573	14.1	11.7	11.1	17.7	12.0	17.5
LD99-11156	16.0	13.4	13.6	20.1	14.9	19.2
LD99-14419	13.9	11.6	12.2	16.7	13.1	13.9
LG00-6306	17.3	15.1	16.3	20.6	17.0	21.2
LG00-6313	16.6	13.5	14.5	22.0	13.4	19.7
LG97-9685	15.5	13.5	12.9	18.6	13.7	18.5
LG99-8924	14.7	13.2	12.5	18.2	14.0	17.9
LS99-1121	15.4	13.4	13.8	17.5	15.2	15.9
LS99-2235	15.1	13.1	12.6	18.4	13.9	18.0
LS99-3346	14.2	12.0	12.6	16.9	12.0	16.7
Md99-6056	14.3	12.2	12.2	19.4	12.1	15.0
Md99-6079	14.1	12.1	11.7	16.7	11.3	16.6
Md99-6085	15.8	13.3	14.0	20.0	13.0	17.8

PRELIMINARY TEST IV, 2002

SEED SIZE (g/100)

Strain	Queenstown MD	Kingdom City MO	Portageville (Loam) MO	Mt. Orab OH	Jackson TN
HS93-4118 (IV)	14.1	18.0	14.8	18.8	12.4
LS93-0375 (SCN)	16.3	20.0	15.8	19.5	12.2
Macon (III)	14.1	18.0	15.8	16.2	12.8
Strong (dt1)	14.5	19.0	13.7	20.3	13.9
C2023	16.5	19.0	16.8	20.2	13.8
C2024	11.9	16.0	13.0	15.2	11.8
C2027	13.6	17.0	13.5	17.0	11.6
HC97-4621	15.0	17.0	13.9	18.6	16.6
HC98-1360	13.0	15.0	12.9	14.8	11.9
HC98-1584	12.4	13.0	11.5	13.1	10.2
HC99-76PR	13.6	19.0	14.4	20.0	12.9
HC99-113PR	12.4	15.0	13.3	15.3	12.4
HC99-115PR	12.2		12.7	14.5	14.1
HC99-117PR	11.1	15.0	12.5	13.6	11.7
HC99-118PR	11.5	16.0	13.2	14.6	12.4
HC99-475	13.0	15.0	12.7	15.5	11.8
HC99-545	14.1	16.0	13.9	16.1	12.2
HC99-714	11.1	14.0	12.4	14.1	12.5
HC99-875	12.9	17.0	15.2	17.1	11.7
HC99-1016	13.4	17.0	14.9	16.4	12.0
HC99-1261	11.5	13.0	11.3	14.0	11.5
HC99-1267	12.7	16.0	14.7	15.7	11.3
HC99-2533	17.3	17.0	15.1	17.4	14.1
HC99-2539	14.7	18.0	14.6	17.0	13.4
HC99-2598	13.3	17.0	12.8	15.1	12.1
HC99-2752	14.3	17.0	13.0	16.3	14.0
HC99-2762	13.0	17.0	14.7	16.9	12.6
HS0-3251	13.3	15.0	11.7	14.9	11.2
K1565	13.6	14.0	13.8	16.2	13.5
K1566	17.3	16.0	15.0	16.8	13.7
K1567	18.0	19.0	15.7	18.6	15.0
K1568	15.4	17.0	13.7	17.1	13.1
K1569	15.4	17.0	15.1	16.0	13.1
K1570	15.5	16.0	14.3	16.6	13.1
K1571	14.5	18.0	15.4	17.5	11.3
K1572	16.3	18.0	16.0	18.5	13.2
K1573	13.8	16.0	12.5	14.9	13.7
LD99-11156	14.4	19.0	16.3	18.4	10.9
LD99-14419	13.2	16.0	13.8	15.2	13.7
LG00-6306	16.1	15.0	16.0	20.3	15.0
LG00-6313	16.5	19.0	14.9	17.8	14.3
LG97-9685	13.4	20.0	15.9	16.2	12.6
LG99-8924	14.3	17.0	13.4	15.2	11.1
LS99-1121	14.0	18.0	14.0	17.1	15.5
LS99-2235	15.4	17.0	14.8	15.7	11.9
LS99-3346	14.2	17.0	13.4	15.4	11.7
Md99-6056	15.1	17.0	13.4	15.6	11.0
Md99-6079	15.3	16.0	13.2	15.6	12.1
Md99-6085	16.5	17.0	15.7	17.7	13.0

PRELIMINARY TEST IV, 2002

SEED QUALITY (score)

Strain	Mean 10 Tests	Belleville IL	Harrisburg IL	Urbana IL	Butlerville IN	Manhattan KS
HS93-4118 (IV)	2.5	2.0	2.0	2.0	1.0	3.0
LS93-0375 (SCN)	2.5	1.0	2.0	2.0	1.0	3.0
Macon (III)	2.2	1.0	1.0	2.0	1.0	3.0
Strong (dt1)	2.3	2.0	1.0	1.0	1.0	2.0
C2023	2.5	1.0	3.0	3.0	1.0	3.0
C2024	2.0	1.0	2.0	2.0	1.0	2.0
C2027	2.6	1.0	2.0	3.0	1.5	3.0
HC97-4621	2.3	2.0	1.0	2.0	1.5	2.0
HC98-1360	2.2	1.0	2.0	2.0	1.0	2.0
HC98-1584	1.8	1.0	1.0	1.0	1.0	2.0
HC99-76PR	2.7	2.0	1.0	1.5	1.0	5.0
HC99-113PR	2.1	1.0	2.0	2.0	1.0	2.0
HC99-115PR	2.2	1.0	2.0	2.0	1.0	3.0
HC99-117PR	2.3	1.0	2.0	2.0	1.0	2.0
HC99-118PR	2.1	2.0	1.0	2.0	1.0	2.0
HC99-475	2.0	3.0	1.0	1.0	1.0	2.0
HC99-545	2.1	1.0	2.0	1.0	1.0	2.0
HC99-714	1.9	1.0	1.0	1.0	1.0	2.0
HC99-875	2.1	2.0	1.0	2.0	1.5	2.0
HC99-1016	2.0	2.0	1.0	1.0	1.0	2.0
HC99-1261	2.1	1.0	1.0	1.0	1.0	2.0
HC99-1267	2.6	4.0	1.0	2.0	1.0	2.0
HC99-2533	2.4	2.0	2.0	2.5	1.0	2.0
HC99-2539	2.5	2.0	2.0	2.5	1.0	4.0
HC99-2598	2.5	1.0	2.0	2.0	1.0	3.0
HC99-2752	2.2	1.0	2.0	2.0	1.0	3.0
HC99-2762	2.4	1.0	2.0	3.0	1.0	3.0
HS0-3251	2.2	2.0	2.0	2.0	1.0	2.0
K1565	2.1	1.0	2.0	2.0	1.0	2.0
K1566	2.0	1.0	1.0	2.0	1.0	2.0
K1567	2.4	1.0	2.0	2.5	1.0	2.0
K1568	2.2	1.0	2.0	2.0	1.0	2.0
K1569	2.2	1.0	2.0	2.5	1.0	2.0
K1570	2.1	1.0	2.0	2.0	1.0	2.0
K1571	2.2	2.0	1.0	2.0	1.0	2.0
K1572	2.3	1.0	1.0	3.0	1.0	2.0
K1573	2.0	1.0	2.0	2.0	1.0	2.0
LD99-11156	2.2	1.0	2.0	3.0	1.0	3.0
LD99-14419	2.1	1.0	2.0	2.5	1.0	2.0
LG00-6306	2.1	1.0	1.0	3.0	1.0	3.0
LG00-6313	2.5	1.0	2.0	3.0	1.5	4.0
LG97-9685	2.5	2.0	2.0	2.5	1.0	3.0
LG99-8924	2.5	2.0	2.0	2.0	1.5	2.0
LS99-1121	2.5	1.0	2.0	3.0	1.0	3.0
LS99-2235	2.2	2.0	1.0	2.0	1.5	2.0
LS99-3346	2.0	1.0	1.0	2.5	1.0	2.0
Md99-6056	2.0	1.0	1.0	2.0	1.0	2.0
Md99-6079	1.8	1.0	1.0	2.0	1.0	2.0
Md99-6085	2.4	2.0	2.0	2.5	1.0	4.0

PRELIMINARY TEST IV, 2002

SEED QUALITY (score)

Strain	Queenstown MD	Kingdom City MO	Portageville (Loam) MO	Mt. Orab OH	Jackson TN
HS93-4118 (IV)	3.8	3.0	3.0	1.5	3.8
LS93-0375 (SCN)	3.0	4.0	3.0	1.8	4.0
Macon (III)	4.0	2.0	2.0	1.5	4.5
Strong (dt1)	3.3	3.0	3.0	2.8	3.9
C2023	2.5	3.0	3.0	1.5	3.5
C2024	2.8	2.0	2.0	1.5	3.3
C2027	3.0	3.0	4.0	2.0	3.5
HC97-4621	3.8	2.0	2.0	3.0	4.1
HC98-1360	3.5	3.0	2.0	1.5	3.7
HC98-1584	3.0	2.0	2.0	1.5	3.4
HC99-76PR	4.3	4.0	2.0	1.8	4.5
HC99-113PR	3.5	2.0	2.0	1.5	3.7
HC99-115PR	3.8		2.0	1.5	3.5
HC99-117PR	4.3	3.0	2.0	1.5	3.8
HC99-118PR	4.0	2.0	2.0	1.5	3.9
HC99-475	3.0	1.0	2.0	1.8	3.8
HC99-545	3.8	2.0	2.0	2.0	4.1
HC99-714	3.5	2.0	2.0	1.5	3.7
HC99-875	3.3	2.0	2.0	1.5	3.9
HC99-1016	3.5	2.0	2.0	1.5	3.9
HC99-1261	4.3	3.0	2.0	1.5	3.9
HC99-1267	4.3	3.0	3.0	2.0	4.0
HC99-2533	3.3	3.0	3.0	1.5	4.1
HC99-2539	3.5	2.0	2.0	2.0	3.6
HC99-2598	4.3	4.0	2.0	2.0	4.2
HC99-2752	4.0	2.0	2.0	1.5	3.9
HC99-2762	4.5	2.0	2.0	1.5	3.5
HS0-3251	3.8	2.0	2.0	1.8	3.2
K1565	3.3	2.0	2.0	1.8	4.1
K1566	3.5	2.0	2.0	1.5	3.9
K1567	3.8	3.0	3.0	1.8	4.1
K1568	3.3	4.0	2.0	1.5	3.5
K1569	3.3	2.0	3.0	1.5	3.8
K1570	3.0	2.0	2.0	1.5	4.1
K1571	3.5	2.0	2.0	2.8	3.5
K1572	3.5	4.0	2.0	2.0	3.7
K1573	3.3	2.0	2.0	1.5	3.2
LD99-11156	3.5	2.0	2.0	1.5	3.1
LD99-14419	2.5	2.0	3.0	1.5	3.8
LG00-6306	3.0	2.0	2.0	1.5	3.9
LG00-6313	3.0	3.0	2.0	1.5	3.7
LG97-9685	3.0	2.0	3.0	1.8	4.5
LG99-8924	3.0	3.0	4.0	1.8	3.5
LS99-1121	2.5	4.0	3.0	1.8	3.8
LS99-2235	2.8	2.0	3.0	2.0	4.0
LS99-3346	2.3	3.0	2.0	1.5	4.0
Md99-6056	3.3	3.0	2.0	1.8	3.3
Md99-6079	2.3	2.0	2.0	1.5	3.4
Md99-6085	2.8	2.0	2.0	1.5	3.9

PRELIMINARY TEST IV, 2002

PROTEIN (%)

Strain	Mean 4 Tests	Urbana IL	Butlerville IN	Kingdom City MO	Mt. Orab OH
HS93-4118 (IV)	40.8	41.3	37.4	42.9	41.6
LS93-0375 (SCN)	41.4	43.1	38.3	43.2	40.9
Macon (III)	41.0	43.1	37.6	42.0	41.4
Strong (dt1)	42.2	42.8	39.8	43.1	43.0
C2023	42.6	45.2	41.3	43.2	40.4
C2024	45.0	45.8	42.2	46.4	45.6
C2027	41.2	42.1	39.5	41.9	41.4
HC97-4621	40.9	41.7	37.0	41.5	43.4
HC98-1360	43.1	45.4	38.4	44.0	44.6
HC98-1584	43.0	45.4	39.0	44.3	43.1
HC99-76PR	43.5	44.1	41.6	43.3	44.8
HC99-113PR	42.8	44.7	40.0	44.4	42.2
HC99-115PR	41.7	44.2	39.1		41.9
HC99-117PR	43.1	44.1	41.6	43.7	42.9
HC99-118PR	43.0	43.5	42.1	44.1	42.1
HC99-475	41.4	42.3	39.9	41.8	41.4
HC99-545	42.6	43.3	40.4	43.6	43.1
HC99-714	39.3	40.7	36.7	39.6	40.3
HC99-875	42.2	43.1	40.6	43.1	42.0
HC99-1016	40.5	40.8	39.2	41.9	40.0
HC99-1261	40.8	41.5	39.6	40.8	41.5
HC99-1267	42.0	43.0	40.7	42.6	41.8
HC99-2533	41.9	44.7	38.4	42.8	41.9
HC99-2539	42.3	44.0	40.3	43.6	41.4
HC99-2598	42.2	44.0	40.0	42.7	42.2
HC99-2752	41.8	44.0	40.0	40.6	42.5
HC99-2762	42.0	43.6	40.0	41.8	42.6
HS0-3251	41.7	42.9	40.4	42.2	41.3
K1565	42.0	44.8	39.6	41.6	42.0
K1566	42.7	43.8	41.6	41.5	43.7
K1567	39.6	40.5	36.3	41.3	40.1
K1568	41.8	42.6	39.4	43.8	41.4
K1569	42.3	43.2	40.1	44.3	41.8
K1570	41.2	43.4	37.5	42.8	41.3
K1571	40.7	41.2	37.5	42.7	41.2
K1572	41.6	42.0	39.2	43.5	41.5
K1573	41.3	44.0	37.2	42.1	42.0
LD99-11156	41.0	43.6	37.6	42.0	40.9
LD99-14419	43.7	45.5	39.8	44.8	44.6
LG00-6306	39.9	41.1	37.1	41.4	39.9
LG00-6313	39.4	41.9	34.3	40.0	41.4
LG97-9685	40.3	42.4	38.2	39.3	41.4
LG99-8924	40.0	41.3	37.3	40.3	41.2
LS99-1121	42.3	44.6	39.4	42.9	42.2
LS99-2235	40.9	42.1	38.8	41.2	41.5
LS99-3346	40.3	40.6	36.2	42.2	42.0
Md99-6056	41.3	43.6	37.2	43.1	41.4
Md99-6079	42.3	43.9	37.8	47.0	40.4
Md99-6085	42.8	45.1	37.9	44.4	43.7

PRELIMINARY TEST IV, 2002

OIL (%)

StraIL	Mean 4 Tests	Urbana IL	Butlerville IN	Kingdom City MO	Mt. Orab OH
HS93-4118 (IV)	19.9	17.8	21.2	19.7	20.9
LS93-0375 (SCN)	20.0	18.3	20.7	19.8	21.3
Macon (III)	20.6	18.8	21.6	20.6	21.2
Strong (dt1)	20.0	19.7	19.4	19.9	21.1
C2023	18.8	17.5	19.7	18.6	19.4
C2024	19.1	17.4	19.2	19.3	20.4
C2027	20.0	18.0	20.6	20.9	20.4
HC97-4621	20.3	19.6	20.8	20.0	20.9
HC98-1360	20.8	19.1	22.2	20.2	21.8
HC98-1584	19.9	18.6	20.6	19.1	21.4
HC99-76PR	19.8	19.2	20.0	19.4	20.8
HC99-113PR	20.0	18.2	21.1	19.4	21.2
HC99-115PR	20.4	18.5	21.0		21.6
HC99-117PR	19.9	18.7	20.4	19.1	21.6
HC99-118PR	20.0	19.1	20.2	19.8	21.0
HC99-475	20.1	19.5	19.8	19.2	21.8
HC99-545	20.1	19.1	21.2	19.4	20.6
HC99-714	21.3	19.1	23.0	20.5	22.7
HC99-875	19.8	19.2	18.7	19.6	21.6
HC99-1016	21.1	19.9	21.0	20.6	22.9
HC99-1261	20.5	19.7	20.8	20.8	20.8
HC99-1267	20.6	19.8	20.7	20.3	21.7
HC99-2533	20.7	18.7	21.4	20.7	22.0
HC99-2539	20.9	19.4	20.9	20.3	22.9
HC99-2598	20.0	18.6	20.5	19.8	21.0
HC99-2752	19.4	18.8	21.0	17.3	20.7
HC99-2762	21.1	19.4	22.1	21.1	21.8
HS0-3251	20.0	18.1	20.8	20.2	20.8
K1565	20.1	18.3	20.6	20.4	21.1
K1566	19.9	19.5	20.2	18.0	21.6
K1567	21.6	20.4	22.0	21.4	22.5
K1568	19.0	18.0	19.1	19.0	20.0
K1569	18.9	18.0	19.4	18.2	20.1
K1570	20.1	19.0	21.2	19.3	20.8
K1571	19.4	18.1	21.0	18.8	19.8
K1572	20.0	18.7	20.3	20.4	20.5
K1573	20.0	19.4	21.0	19.0	20.6
LD99-11156	21.5	19.9	22.4	21.8	21.9
LD99-14419	19.8	18.2	20.5	20.0	20.5
LG00-6306	20.1	19.0	20.6	19.8	21.2
LG00-6313	20.4	17.2	22.6	21.5	20.5
LG97-9685	20.0	18.6	20.9	19.9	20.6
LG99-8924	20.6	20.1	22.2	18.5	21.5
LS99-1121	19.8	17.3	21.1	20.5	20.2
LS99-2235	20.3	19.2	22.7	17.9	21.3
LS99-3346	20.1	17.3	21.6	20.8	20.7
Md99-6056	21.2	19.7	23.2	20.0	21.9
Md99-6079	19.4	18.3	21.6	19.3	18.6
Md99-6085	19.7	17.6	21.3	19.5	20.3