

THE UNIFORM SOYBEAN TESTS

NORTHERN REGION

2016



UNITED STATES DEPARTMENT OF AGRICULTURE
AGRICULTURAL RESEARCH SERVICE WEST LAFAYETTE, INDIANA

COOPERATING WITH
STATE AGRICULTURAL EXPERIMENT STATIONS NORTHERN STATES



UNIFORM SOYBEAN TESTS

NORTHERN REGION

2016

USDA-ARS
Crop Production and Pest Control Research Unit
Department of Botany and Plant Pathology
Purdue University
915 West State St.
West Lafayette, IN 47907

COORDINATED BY:

Dr. Steve Scofield, Dr. Brandon J. Schemerhorn, Dr. Guohong Cai and Gary L. Nowling

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<https://ars.usda.gov/mwa/lafayette/cppcru/ust>

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Data Compiled By:

Gary L Nowling and Scottie Brittsan
USDA-ARS Crop Production and Pest Control Research Unit
Purdue University, W. Lafayette, IN 47907-1150
Office phone 765-583-2952
Email: gary.nowling@ars.usda.gov
gnowling@purdue.edu

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Jae Brungart, ISU, Ames, IA	Andrew M. Scaboo, UM, Columbia, MO
Ryan Budnik, ISU, Ames, IA	Melissa Crisel, UM, Portageville, MO
Silvia Cianzio, ISU, Ames, IA	Grover Shannon, UM, Portageville, MO
Greg Gebhart, ISU, Ames, IA	Ted Helms, NDSU, Fargo, ND
Peter Lundeen, ISU, Ames, IA	Dave Hanson, NDSU, Fargo, ND
Jennifer Hicks, ISU, Ames, IA	George Graef, UNL, Lincoln, NE
Keven Scholbrock, ISU, Ames, IA	Tyler Frederick, UNL, Lincoln, NE
Brian Scott, ISU, Ames, IA	Shawn Jenkins, UNL, Lincoln, NE
A. K. Singh, ISU, Ames, IA	Marcia Feller, OSU, Columbus, OH
Troy Cary, UII, Urbana, IL	Jonathan M. La Mantia, OSU, Wooster, OH
Brian Diers, UII, Urbana, IL	Leah McHale, OSU, Columbus, OH
Edward Johnson, USDA-ARS, Urbana, IL	Scott McIntyre, OSU, Wooster, OH
Randy L. Nelson, USDA-ARS, Urbana, IL	Christopher Nacci, OSU, Wooster, OH
Catherine A. Schmidt, SIU, Carbondale, IL	Elroy R. Cober, AGR.GC.CA, Ottawa, ONT
Curtis Brackett, PU, West Lafayette, IN	Kirsten Slusarenko, AGR.GC.CA, Ottawa, ONT
Scottie Brittsan, USDA-ARS, West Lafayette, IN	Istvan Rajcan, UGuelph, Guelph, ONT
Chris Hoagland, PU, West Lafayette, IN	Colbey Templeton, UGuelph, Guelph, ONT
Katy Martin Rainey, PU, West Lafayette, IN	Milad Eskandari, RC, Ridgetown, ONT
Richard Smith, USDA-ARS, West Lafayette, IN	Dennis Fischer, RC, Ridgetown, ONT
William T. Schapaugh, Jr., KSU, Manhattan, KS	Bryan Stirling, RC, Ridgetown, ONT
John Boyse, MSU, East Lansing, MI	Jérôme Auclair, La Coop Fédérée, Saint-Hyacinthe, QUE
Dechun Wang, MSU, East Lansing, MI	Rock Leonard, La Coop Fédérée, Saint-Hyacinthe, QUE
Gerald Decker, UMN, St. Paul, MN	Louise O'Donoughue, CEROM, Saint- Mathieu, QUE
Aaron J Lorenz, UMN, St. Paul, MN	Prakash Arelli, USDA-ARS, Jackson, TN
Darcy Weston, UMN, St. Paul, MN	Lisa Fritz, USDA-ARS, Jackson, TN
Michael Clubb, UM, Columbia, MO	Vince R. Pantalone, UT Knoxville, TN
Abby Isabelle, UM, Columbia, MO	
Jarrold Nichols, UM, Columbia, MO	
Xiaofan Niu, UM, Columbia, MO	

Uniform Test Participants, 2016

Uniform Test Cooperator

Silvia Cianzio
Department of Agronomy
Iowa State University
Ames, IA 50011
Ph: 787-830-2390
Fax: 787-830-1045
Email: scianzio@iastate.edu

A. K. Singh
1501 Agronomy Hall
Iowa State University
Ames, IA 50010
Email: singhak@iastate.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

Brian Diers
Department of Crop Sciences
University of Illinois
1102 S. Goodwin Ave.
Urbana, IL 61801
Ph: 217-265-4062
Fax: 217-244-1707
Email: diers@illinois.edu

Stella A. Kantartzi
Department of Plant & Soil Science
Mailcode 4415
Southern Illinois University
Carbondale, IL 62901
Ph: 618-453-1793
Fax: 618-453-7457
Email: kantart@siu.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

Technical Contact

Greg Gebhart / Peter Lundeen / Ryan Budnik
Iowa State University
3510 Agronomy Hall
Ames, IA 50011
Ph: 515-294-5896
Fax: 515-294-9420
Email: ggebhart@iastate.edu, plundeen@iastate.edu,
rjbudnik@iastate.edu

Jae Brungart / Brian Scott / Jennifer Hicks
Email: jaeb@iastate.edu, bwscott@iastate.edu,
jhicks@iastate.com

Kevin Scholbrock
1210 Agronomy Hall
Iowa State University
Ames, IA 50011-1010
Ph: 515-294-0726
Fax: 515-294-6514
Email: kscholbr@iastate.edu

Troy Cary
Department of Crop Sciences
University of Illinois
1102 S. Goodwin Ave.
Urbana, IL 61801
Ph: 217-244-5138
Fax: 217-333-2965
Email: tcary@illinois.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

Uniform Test Participants, 2016

Uniform Test Cooperator

Technical Contact

Annie Korando
Dept. of Plant, Soil, and Agricultural Systems
Southern Illinois University, Carbondale
1205 Lincoln Drive, AG 176
Carbondale, IL 62901
Ph: 618-453-7638
Email: akorando@siu.edu

Katy Martin Rainey
Soybean Genetics & Breeding
Agronomy Dept.
Purdue University
2-351 Lilly Hall
West Lafayette, IN 47907
Ph: 765-414-5360
Email: krainey@purdue.edu

Guohong Cai, USDA-ARS
Crop Production and Pest Control Research Unit
Purdue University
915 W. State Street
West Lafayette, IN 47907-2054
Ph: 765-494-8529
Email: Guohong.cai@ars.usda.gov

W. T Schapaugh, Jr.
Agronomy Department
2004 Throckmorton Hall
Kansas State University
Manhattan, KS 66506
Ph: 785-532-7242
Fax: 785-532-6094
Email: wts@ksu.edu

Dechun Wang
Department of Plant, Soil and Microbial Sciences
Michigan State University
1066 Bogue St., Rm. A384-E
East Lansing, MI 48824-1325
Ph: 517-353-0219
Fax: 515-353-3955
Email: wangdech@msu.edu

Chris Hoagland / Curtis Brackett
Agronomy Dept.
Purdue University
Lilly Hall
West Lafayette, IN 47907
Ph: 765-494-6759
Email: choaglan.purdue.edu, cbrackett12@gmail.com

Gary L Nowling, USDA-ARS
USDA Soybean Research Building
4540 Hwy 52 West
West Lafayette, IN 47906
Ph: 765-583-2952
Email: gnowling@purdue.edu

John Boyse
Crop and Soil Science Research Farm
Michigan State University
4450 Beaumont Rd.
East Lansing, MI 48824-1325
Ph: 517-355-2287
Fax: 515-353-3515
Email: boyse@msu.edu

Uniform Test Participants, 2016

Uniform Test Cooperator	Technical Contact
Aaron J Lorenz Department of Agronomy & Plant Genetics University of Minnesota 1991 Upper Buford Circle 411 Borlaug Hall St. Paul, MN 55108 Ph: 612-625-6754 Fax: 612-625-1268 Email: lore0149@umn.edu	Darcy Weston/Gerald Decker Department of Agronomy & Plant Genetics University of Minnesota 105 Crops Research 1902 Dudley Ave. St. Paul, MN 55108 Ph: 612-625-9263 Fax: 612-625-1268 Email: westo008@umn.edu
Andrew M. Scaboo Division of Plant Science 1-31 Agriculture Building University of Missouri Columbus, MO 65211-7310 Ph: 573-882-3462 Fax: 573-882-1467 Email: scabooa@missouri.edu	Xiaofan Niu Research Specialist Soybean Breeding and Genetics 1-31 Agriculture Building University of Missouri Columbia, MO 65211 Ph: 573-499-3701 Email: niux@missouri.edu
	Jarrold Nichols Research Technician University of Missouri 5601 South Rangeline Road Columbia, MO 65201 Ph: 573-882-3462 E-mail: nicholsjar@missouri.edu
Grover Shannon Delta Research Center 147 State Hwy T Portageville, MO 63873 Ph: 573-379-5431 Fax: 573-379-5875 Email: shannong@missouri.edu	Melissa Crisel Delta Research Center P. O. Box 160 Portageville, MO 63873 Ph: 573-379-5431 Fax: 573-379-5875 Email: woolardm@missouri.edu
	Michael Clubb Research Specialist, Soybean Breeding Delta Research Center College of Agriculture, Food and Natural Resources University of Missouri PO Box 160, 147 State Hwy. T Portageville, MO 63873 Ph: 573-379-5431 Fax: 573-379-5875 Email: clubbm@missouri.edu / aes.missouri.edu/delta

Uniform Test Participants, 2016

Uniform Test Cooperator

Technical Contact

Ted Helms
NDSU Dept. 7670
166 Loftsgard Hall
North Bolley Drive
Fargo, ND 58108-6050
Ph: 701-231-8136
Fax: 701-231-8474
Email: ted.helms@ndsu.edu

George L. Graef
319 Keim Hall
University of Nebraska-Lincoln
Lincoln, NE 68583-0915
Ph: 402-472-1537
Fax: 402-472-6343
Email: ggraef1@unl.edu

Leah K. McHale
Dept. of Horticulture and Crop Science
312B Koffman Hall, 2021 Coffey Rd.
Ohio State University
Columbus, OH 43210
Ph: 614-292-9003
Fax: 614-292-7162
Email: mchale.21@osu.edu

Jonathan M. La Mantia
OARDC-USDA-ARS
1680 Madison Ave
Wooster, OH 44691
Ph: 330-263-3672
Fax: 330-263-3887
Email: jonathan.lamantia@ars.usda.gov

Dave Hanson
AES Plant Science
214D Waldron Hall
North Dakota State University
Fargo, ND 58108-6050
Ph: 701-231-8871
Email: dave.hanson@aim.com

Justin Loeffelholz
107 SSL - UNL
2101 North 38th St.
Lincoln, NE 68583-0827
Ph: 402-472-6343
Fax: 402-472-6343
Email: tyler.frederick@unl.edu
Email: ahoagland3@unl.edu
Email: jenkins.shawn@huskers.unl.edu

Marcia Feller
Dept. of Horticulture and Crop Science
202 Koffman Hall, 2021 Coffey Rd.
Ohio State University
Columbus, OH 43210
Ph: 614-292-2124
Fax: 614-292-7162
Email: feller.13@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

Christopher Nacci
OARDC-USDA-ARS
1680 Madison Ave
Wooster, OH 44691
Ph: 330-202-3555 ext. 2892
Fax: 330-263-3887
Email: christopher.nacci@ars.usda.gov

Uniform Test Participants, 2016

Uniform Test Cooperator	Technical Contact
Elroy R. Cober Agriculture and Agri-Food Canada Eastern Cereal and Oilseed Research Centre 960 Carling Ave. Ottawa, Ontario Canada K1A 0C6 Ph: 613-759-1610 Fax: 613-715-5399 Email: elroy.cober@agr.gc.ca	Kirsten Slusarenko Agriculture and Agri-Food Canada Eastern Cereal and Oilseed Research Centre Bldg. # 110, 960 Carling Ave. Ottawa, Ontario Canada K1A 0C6 Ph: 613-759-1611 Fax: 613-715-5399 Email: Kirsten.Slusarenko@agr.gc.ca
Milad Eskandari Department of Plant Agriculture University of Guelph, Ridgetown Campus 120 Main Street East Ridgetown, Ontario Canada N0P 2C0 Email: meskanda@uoguelph.ca	Dennis Fischer Ridgetown College Main Street East Ridgetown, Ontario Canada NOP 2C0 Ph: 519-674-1598 Fax: 519-674-1600 Email: dfischer@ridgetownc.uoguelph.ca
Istvan Rajcan Dept. of Plant Agriculture, Crop Sci. Bldg University of Guelph Guelph, Ontario Canada N1G 2W1 Ph: 519-824-4120 ext. 53564 Fax: 519-763-8933 Email: irajcan@uoguelph.ca	Colbey Templeton Dept. of Plant Agriculture, Crop Sci. Bldg University of Guelph Guelph, Ontario Canada N1G 2W1 Ph: 519-824-4120 ext. 54570 Email: ctemplem@uoguelph.ca
Jérôme Auclair La Coop Fédérée 15050, Chemin de la Fédérée Saint-Hyacinthe, Quebec Canada J2R 1J2 Ph: 450-799-2326 x32 Fax: 450-799-2328 Email: jerome.auclair@lacoop.coop	Rock Leonard La Coop Fédérée 19235, Avenue St. Louis Saint-Hyacinthe, Quebec Canada J2T 5J4 Ph: 450-799-2326- poste 236 Fax: 450-773-3381 Email: rock.leonard@lacoop.coop
Louise O'Donoghue Genetique des oleoprotagineux/Oilseed Genetics CEROM 740 Chemin Trudeau Saint-Mathieu-de-Beloeil (Quebec) Canada J3G 2E0 Ph: 450-464-2715 ext. 228 Fax: 450-464-8767 Email: louise.odonoghue@cerom.qc.ca	

Uniform Test Participants, 2016

Uniform Test Cooperator

Technical Contact

Prakash Arelli
USDA-ARS
605 Airways Blvd.
Jackson, TN 38301
Ph: 731-425-4741
Fax: 731-425-4760
Email: prakash.arelli@ars.usda.gov

Lisa Fritz
USDA-ARS
605 Airways Blvd.
Jackson, TN 38301
Ph: 731-425-4736
Fax: 731-425-4760
Email: lisa.fritz@ars.usda.gov

Vince R. Pantalone
Dept. of Plant and Soil Sciences
University of Tennessee
P.O. Box 1071
Knoxville, TN 37901-1071
Ph: 865-974-8801
Fax: 765-974-7994
Email: vpantalo@utk.edu

Introduction

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

A test is established for each of ten maturity groups. Uniform Test 00 includes maturity Group 00 strains adapted to production in the northern fringe of the present area of soybean production. Uniform Tests 0 through IV include later maturing strains adapted to locations progressively further south in the North Central States and areas of similar latitude. Each year new selections are added and others that have been sufficiently tested are dropped from the tests. The summary of performance of strains in Uniform Tests 00 through IV in the northern region is included in this report. The USDA-ARS Soybean Production Research Unit, P.O. BOX 345, STONEVILLE, MS 38776, issues the report on Uniform Tests IVS through VIII in the southern states.

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

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

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

Germplasm exchange among breeding programs is the foundation of breeding progress. The purpose of the Uniform Soybean Test is to facilitate the free exchange of germplasm in an effort to maximize genetic diversity and provide well-adapted, stable breeding lines and varieties in the pursuit of breeding progress. Participants are encouraged to exchange germplasm within the legal guidelines pertaining to transgenic strains.

Introduction

NORTHERN REGIONAL 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) 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.
- 3) 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.
- 4) 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. (A=W. Fehr, AR=S. Cianzio)
Ar	Arizona A.E.S.
Au	Alabama A. E. S.
B	California
C	Purdue (Indiana) A.R.P. (C=J.R. Wilcox, CL=A. LeRoy)
CM	Canada Dept. of Agriculture, Morden, Manitoba
D	Mississippi A.E.S.
DSN	Indiana (K. Rainey - Diers/Specht-developed NAM strains)
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/L. McHale)
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)
La	Louisiana A.E.S.
LS	Southern Illinois University (LS=M. Schmidt)
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
OT	Central Experimental Farm, Ottawa, 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, NEX	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 distribution has not been made previously.

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 (-) or later (+) than the average date of the reference variety. To aid in maturity group classification, one earlier (E) and one later (L) check variety are given in the maturity column for each test, or a maturity check from an earlier or later maturity group is included. Current reference and check varieties and the maturity group limits relative to the reference varieties are:

<u>Group</u>	<u>Reference:</u>	<u>Range</u>	<u>Early check</u>	<u>Late check</u>
00	MN0071			MN0095 (0)
0	Sheyenne	-6 to +2	MN0095 (E)	MN1410 (I)
I	MN1410	-4 to +4	Sheyenne (0)	IA1022 (SCN)
II	IA2102	-3 to +5	IA1022 (SCN)	U11-920017
III	IA3023	-6 to +2	U11-920017	LD07-3395bf (SCN)
IV	LD06-7620	-4 to +7	LD07-3395bf (SCN)	LD00-2817 (L)
00RR	AG00632		AG00133	AG00932
0RR	AG0532		AG0231 (E)	AG1234
IRR	AG1733		AG1234 (E)	U07-135601R
IIRR	U06-814223R		AG2031 (E)	U12-909109R
IIIRR	U03-827101 (SCN)		U12-909109R	AG3832
IVRR	AG4033		AG3832	AG4232

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 IA1022 (SCN) for resistance to the soybean cyst nematode in UT I.

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.

Methods

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.

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
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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 reported as dry weight percentage value. The values listed in this report have been converted to a 13% moisture basis.

Descriptive Code: 1 2 3 4 5 6 7 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.

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

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 Methods

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

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

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

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

Disease Methods

Illinois Sudden Death Syndrome rating: Plots were scored by Southern Illinois University. All disease scores were interpolated to the R 6.2 growth stage.

Frogeye Leaf Spot:

SEVERITY 0-9 = linear severity rating scale 0-9, 0 = no symptoms, 1=10% of leaf area covered with lesion 9=90% of leaf area covered and/or defoliation occurring.

SDS:

%INCID = % of plot showing leaf symptoms.

SEVERITY 0-9 = severity of the leaf symptoms: 1 = 0-10% leaf chlorotic (LC), 2 = 10-20% LC, 3 = 20-40% LC, 4 = 40-60% LC, 5 > 60% LC, 6 = premature leaf drop up to 1/3 defoliation, 7 = premature leaf drop up to 2/3 defoliation, 8 = premature leaf drop greater than 2/3 defoliation, 9 premature death.

DX = SDS Disease index ($DI \times DS/9$)

Minnesota Iron Chlorosis Scores (IDC): Scores are the values on the average of 2 observations, 2 reps taken July, 6 and July 28, 2016. Data was collected from Danvers, Minnesota. Planting date: May 17 2016.

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.

Many public institutions carry out development and release of soybean strains. 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. Breeder's seed is distributed to foundation seed organizations in participating states for production during the summer. At this time, if a final decision to release has been made, a sample of seed may be distributed to non-participants in the UT, including private soybean breeders, in accordance with a State's Experiment Station policy. This distribution is made only by the originating institution.

The originating institutions prepare a release notice to soybean seed producers listing all institutions participating in the release of the cultivar. This notice is circulated for signature by all participating institutions. Assistance in the preparation and circulation of this release notice may be obtained by Dr. Kay Simmons, Deputy Administrator for Crop Production and Protection, Office of National Programs, USDA, ARS, 5601 Sunnyside Avenue, Beltsville, MD 20705, phone 301-504- 6252. The office for clearance of proposed names of new soybean cultivars is: Dr. Richard

Procedure for Testing and Release of Strains

Payne, Chief, Seed Regulatory & Testing Branch, Crossing Place, Suite C, Gastonia, North Carolina 28054-2193, phone 704-810-8870, Fax: 704-852-4189 (Lab). 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, 2016

Variety	Experimental Designation	Uniform Test Evaluations
MN0310CN	M06-289001	2012 UT00, 2013-2014 Uniform Test 0
ND17009GT	ND12-21598	2015-2016 Uniform Test 00 Roundup-Ready
ND Benson	ND10-3464	2015-2016 Uniform Test 0
ND Stutsman	ND10-3067	2014-2016 Uniform Test 0

Variety	Release Date	Releasing States	Foundation Seed Production
MN0310CN	Jan. 2016	Minnesota	2015
ND17009GT	Jan. 2016	North Dakota	2016
ND Benson	Jan. 2016	North Dakota	2016
ND Stutsman	Jan. 2016	North Dakota	2016

Disease, Shattering, and Descriptive Data, 2016

State/ Province	Location	Conducted By:	Tests	UT	PT	UTRR
IL	Shawneetown	A. Korando	Frogeye	IV		IV
IL	Monmouth Shawneetown Valmeyer	A. Korando	SDS	I-II III-IV III-IV		I-II III-IV III-IV
IN	West Lafayette	G. Cai / T. Fleury	PR Evaluations	00-IV	0-IV	00-IV
KS	Manhattan	W. Schapaugh, Jr.	Shattering	00-IV	0-IV	00-IV
MN	Crookston Lamberton Moorehead Morris Rosemount Shelly Waseca Danvers	A. Lorenz		00 I-II 00 0 0 00 I-II 00-II	I-II 0 0 I-II 00-II	00 I-II 00 0 0 I-II 00-II
OH	So Charleston	L. McHale	Green Stem	III-IV	III	
QUE	Saint-Mathieu-de-Beloeil	L. O'Donoughue	Green Stem	00-0		
TN	Jackson	P. Arelli	Green Stem	IV	IV	

Soybean Cyst Nematode Evaluations, 2016

1500 Eggs/Plant Inoculum

Ratings: F1 Values

HR <10 Highly Resistant
R 10-24 Resistant
MR 25-39 Moderately Resistant
LR 40-59 Low Resistance
NR >60 No Resistance

For raw data, contact Troy Cary: tcary@illinois.edu

HG Type 0 (Race 3)

HG Type 2.5.7 (Race 1)

<i>retest</i>					<i>retest</i>				
6 Reps					6 Reps				
Indicator	Mean	F1	Mean	F1	Indicator	Mean	F1	Mean	F1
Lee	272		182		Lee	320		222	
Essex	218		151		Essex	289		176	
PI548402	0	0	0	0	PI548402	0	0	0	0
PI88788	11	4	10	5	PI88788	103	32	83	37
PI90763	0	0	0	0	PI90763	0	0	0	0
PI437654	0	0	0	0	PI437654	0	0	0	0
PI209332	10	4	8	4	PI209332	142	44	90	41
PI89772	0	0	0	0	PI89772	0	0	0	0
PI548316	21	8	17	9	PI548316	174	54	109	49
PI438489B			58	32	PI438489B			69	31
Pickett	1	0	3	2	Pickett	11	4	3	2

*=small root

**=rep data too variable to rate

HG Type 0 (Race 3)

HG Type 2.5.7 (Race 1)

Entry	Strain	Mean	F1	Rating	Mean	F1	Rating	Test
1	MN0071 (00)	163	60	NR	201	63	NR	UT00
2	MN0095	111	41	retest	228	71	NR	UT00, 0; PT0
2	MN0095	64	35	MR				UT00, 0; PT0
3	ND Henson	199	73	NR	211	66	NR	UT00
1	Sheyenne	226	83	NR	255	80	NR	UT0, I; PT0, I
3	MN0606CN	22	8	HR	198	62	retest	UT0; PT0
4	MN1410	146	54	L	221	69	NR	UT0, I; PT0, I
10	M08-354011	36	13	R	198	62	NR	UT0
11	M08-359053	60	22	retest	206	64	NR	UT0
11	M08-359053	85	47	LR				UT0
12	M08-362045	19	7	HR	167	52	LR	UT0
17	M09-269045	27	10	R	222	70	NR	UT0
18	M09-274025	249	92	NR	259	81	NR	UT0
23	ND09-5798	204	75	NR	219	69	NR	UT0
24	ND10-2763	205	75	NR	220	69	NR	UT0
25	ND10-3067	197	72	NR	243	76	NR	UT0
26	ND10-3464	24	9	HR	202	63	NR	UT0
25	ND13-7728	202	74	NR	249	78	retest	PT0
25	ND13-7728				143	64	NR	PT0
25	ND13-7728	209	77	NR	288	90	NR	PT0
26	ND13-7810	215	79	NR	213	67	NR	PT0
26	ND13-7810	215	79	NR	225	70	NR	PT0

HG Type 0 (Race 3)					HG Type 2.5.7 (Race 1)			
Entry	Strain	Mean	F1	Rating	Mean	F1	Rating	Test
2	IA1022 (SCN)	72	26	MR	171	54	LR	UTII; PTI, II
4	U11-917032	30	11	R	201	63	NR	UTI; PTI
5	M07-209037	14	5	HR	120	37	MR	UTI
9	M09-278026	18	7	HR	136	43	retest	UTI
9	M09-278026				130	59	LR	UTI
14	ORC 3713N	50	19	retest	262	82	NR	UTI
14	ORC 3713N	15	8	HR				UTI
15	ORC 7512N	65	24	R	269	84	NR	UTI
1	IA2102	49	18	R	214	67	NR	UTII; PTII
3	LD02-4485	25	9	HR	169	53	retest	UTII; PTII
3	LD02-4485				101	46	LR	UTII; PTII
4	U11-920017	201	74	NR	137	43	retest	UTII; PTII
4	U11-920017				109	49	LR	UTII; PTII
8	E13100	30	11	R	145	45	LR	UTII
15	E13370	183	67	retest	257	80	NR	UTII
15	E13370	131	72	NR				UTII
16	LD10-10198	17	6	HR	195	61	NR	UTII
18	M08-365100	36	13	R	234	73	NR	UTII
19	M09-278096	22	8	HR	145	45	LR	UTII
20	MSC09-777143	26	10	retest	182	57	LR	UTII
20	MSC09-777143	6	3	HR				UTII
20	MSC09-777143	5	2	HR	166	52	LR	UTII
21	U11-911079	15	6	HR	167	52	LR	UTII
5	DS11-12073	29	11	R	146	46	LR	PTIIA
6	DS11-12119	28	10	R	160	50	LR	PTIIA
7	E13901	70	26	R	242	76	NR	PTIIA
8	E13902	95	35	retest	221	69	NR	PTIIA
8	E13902	31	17	R				PTIIA
9	E13903	203	75	NR	190	60	NR	PTIIA
10	E14077	22	8	HR	251	78	NR	PTIIA
11	E14141	192	71	NR	216	68	NR	PTIIA
12	E14143	206	76	retest	244	76	NR	PTIIA
12	E14143	160	88	NR				PTIIA
13	E14148	11	4	HR	205	64	NR	PTIIA
14	E14208	222	82	NR	202	63	retest	PTIIA
14	E14208				109	49	**	PTIIA
15	E14273	81	30	retest	232	73	NR	PTIIA
15	E14273	91	50	**				PTIIA
16	E14309	183	67	retest	245	77	NR	PTIIA
16	E14309	131	72	**				PTIIA
17	E14314	15	6	HR	217	68	retest	PTIIA
17	E14314				170	77	NR	PTIIA
18	E14703	23	9	HR	156	49	LR	PTIIA
21	LD13-4902a	124	46	LR	136	42	LR	PTIIA
22	LD13-6692	197	73	NR	235	74	NR	PTIIA

HG Type 0 (Race 3)					HG Type 2.5.7 (Race 1)			
Entry	Strain	Mean	F1	Rating	Mean	F1	Rating	Test
14	U13-235297	62	23	retest	262	82	NR	PTIIB
14	U13-235297	41	23	R				PTIIB
15	U14-903100	138	51	retest	211	66	NR	PTIIB
15	U14-903100	42	23	R				PTIIB
16	U14-909100	14	5	HR	165	52	LR	PTIIB
17	U14-910097	1	0	HR	1	0	retest	PTIIB
17	U14-910097				7	3	HR	PTIIB
18	U14-912101	187	69	NR	219	68	NR	PTIIB
19	U14-914093	60	22	retest	203	63	NR	PTIIB
19	U14-914093	1	1	HR				PTIIB
20	U14-915126	195	72	retest	199	62	NR	PTIIB
20	U14-915126	50	27	**				PTIIB
23	U14-925152	3	1	HR	0	0	retest	PTIIB
23	U14-925152				1	0	HR	PTIIB
1	IA3023	179	66	NR	97	30	retest	UTIII; PTIII
1	IA3023				141	64	NR	UTIII; PTIII
2	IA3048	4	2	HR	219	69	NR	UTIII; PTIII
3	LD07-3395bf	4	1	HR	90	28	retest	UTIII, IV; PTIII, IV
3	LD07-3395bf				71	32	MR	UTIII, IV; PTIII, IV
9	LD11-2170	46	17	R	177	55	LR	UTIII
10	LD12-3866	142	52	LR	186	58	LR	UTIII
19	U12-209068	204	75	NR	211	66	retest	UTIII
19	U12-209068				192	86	NR	UTIII
24	U13-931068	176	65	NR	188	59	LR	UTIII
21	SA13-1310	27	10	R	168	53	LR	PTIIIA
22	SA13-1363	24	9	HR	201	63	NR	PTIIIA
23	SA13-1385	20	7	HR	186	58	LR	PTIIIA
24	SA13-2047	1	0	HR	87		retest	PTIIIA
24	SA13-2047				76	34	MR	PTIIIA
25	SA13-2126	172	63	NR	261	82	NR	PTIIIA
26	SA13-2489	156	57	retest	174	55	retest	PTIIIA
26	SA13-2489	113	62	NR	137	62	NR	PTIIIA
27	SA13-2699	24	9	HR	175	55	LR	PTIIIA
28	SA13-3135	53	19	retest	220	69	NR	PTIIIA
28	SA13-3135	32	18	R				PTIIIA
13	LD13-759	246	91	NR	285	89	retest	PTIIB
13	LD13-759				89	40	**	PTIIB
14	LD13-767	207	76	NR	238	74	NR	PTIIB
18	U13-231286	198	73	NR	219	69	NR	PTIIB
19	U13-233294	193	71	NR	223	70	retest	PTIIB
19	U13-233294				137	62	NR	PTIIB
20	U13-233425	203	75	NR	241	75	NR	PTIIB
21	U13-235283	194	71	retest	236	74	NR	PTIIB
21	U13-235283	133	73	**				PTIIB
22	U13-329025	149	55	retest	208	65	NR	PTIIB
22	U13-329025	113	62	**				PTIIB
23	U14-605217	117	43	retest	189	59	LR	PTIIB
23	U14-605217	148	81	NR				PTIIB
24	U14-608170	195	72	retest	241	75	NR	PTIIB

HG Type 0 (Race 3)					HG Type 2.5.7 (Race 1)			
Entry	Strain	Mean	F1	Rating	Mean	F1	Rating	Test
24	U14-608170	138	76	NR				PTIIIB
26	U14-902082	21	8	HR	227	71	NR	PTIIIB
27	U14-912075	226	83	NR	237	74	NR	PTIIIB
28	U14-924158	3	1	HR	76	24	R	PTIIIB
29	U14-926130	1	0	HR	73	23	retest	PTIIIB
29	U14-926130				32	14	R	PTIIIB
1	LD06-7620	47	17	R	198	62	NR	UTIV; PTIV
2	LD00-2817P	3	1	HR	7	2	retest	UTIV; PTIV
2	LD00-2817P				5	2	HR	UTIV; PTIV
4	LD12-10534	188	69	retest	168	52	LR	UTIV
4	LD12-10534	111	61	NR				UTIV
6	LG11-6759	7	3	HR	197	62	NR	UTIV
7	LG11-6760	6	2	HR	205	64	NR	UTIV
8	LG11-6761	12	4	HR	191	60	NR	UTIV
2	AG1234 (E)	63	23	R	254	80	NR	UT0RR, IRR
5	M09-876012	28	10	R	237	74	NR	UT0RR
6	M09-876048	68	25	retest	204	64	NR	UT0RR
6	M09-876048	11	6	HR				UT0RR
10	M09-957051	30	11	R	214	67	NR	UT0RR
1	AG1733 (I)	10	4	HR	206	64	NR	UTIRR
3	AG2031	15	6	HR	196	61	NR	UTIRR, IIRR
5	M09-876026	17	6	HR	223	70	NR	UTIRR
9	M09-957075	146	54	retest	237	74	NR	UTIRR
9	M09-957075	71	39	**				UTIRR
7	LD12-15808R1a	4	1	HR	143	45	LR	UTIIIR
8	LD12-15811R1a	6	2	HR	165	51	retest	UTIIIR
8	LD12-15811R1a				97	44	LR	UTIIIR
9	LD12-15840R1a	10	4	HR	164	51	LR	UTIIIR
10	LD13-13228R1a	19	7	HR	206	64	NR	UTIIIR
11	LD13-13478R1a	12	4	HR	252	79	NR	UTIIIR
12	LD13-14071R2	11	4	HR	210	66	NR	UTIIIR
13	LD13-14107R2	13	5	HR	169	53	LR	UTIIIR
1	U03-827101 (SCN)	34	12	R	196	61	NR	UTIIIR
3	AG3832	28	10	R	190	59	LR	UTIIIR, IVRR
9	LD13-13334R1a	44	16	R	199	62	retest	UTIIIR
9	LD13-13334R1a				108	49	LR	UTIIIR
10	LD13-14327R2	16	6	HR	153	48	LR	UTIIIR
11	LD13-14525R2	19	7	HR	191	60	NR	UTIIIR
12	SA12-1756RR	35	13	R	82	26	MR	UTIIIR
13	SA13-4268RR	32	12	R	200	62	NR	UTIIIR
14	SA13-4304RR	19	7	HR	209	65	NR	UTIIIR
15	SA13-4342RR	37	14	R	201	63	NR	UTIIIR
16	SA13-4420RR	21	8	HR	218	68	NR	UTIIIR
17	SA13-4434RR	63	23	R	205	64	NR	UTIIIR
3	AG4232	31	11	R	179	56	LR	UTIVRR
6	LD13-14460R1	32	12	R	213	67	NR	UTIVRR

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Soybean Phytophthora Rps Gene Evaluation, 2016

	Isolate	ISA 69 C-2 Race 1		Dorrance Race 3	
	Dates rated	6/21/2016		7/25/2016	
Differential Name	Rps gene	% Dead	# D/T	% Dead	# D/T
Williams	rps	100%	11/11	100%	11/11
Union	1a	0%	0/11	83%	10/12
Haro 13	1b	0%	0/11	17%	2/12
Williams 79	1c	0%	0/9	9%	1/11
Haro 16	1d	8%	1/12	50%	12/24
Williams 82	1k	18%	2/11	0%	0/11
L76-1988	2	25%	3/12	17%	2/12
PI 171442	3a	0%	0/12	0%	0/11
PRX 146-36	3b	0%	0/12	0%	0/12
PRX 145-48	3c	0%	0/10	0%	0/9
L85-2352	4	38%	3/8	33%	4/12
L85-3059	5	10%	1/10	17%	2/12
Harosoy 62	6	45%	5/11	0%	0/12
Harosoy	7	82%	9/11	83%	10/12
PI 399073	8	8%	1/12	0%	0/12
Strain	MG / Ent #	% Dead	# D/T	% Dead	# D/T
MN0071 (00)	UT00 1	0%	0/12	7%	9/123
MN0095 (0)	UT00 2	50%	5/10	100%	11/11
ND Henson	UT00 3	25%	3/12	0%	0/11
M06-338016	UT00 4	0%	0/10	64%	7/11
M07-260009	UT00 5	0%	0/12	8%	1/12
M08-271313	UT00 6	0%	0/11	75%	9/12
M10-207102	UT00 7	17%	2/12	55%	6/11
ND12-13257	UT00 8	0%	0/12	8%	1/12
ND12-15623	UT00 9	0%	0/12	0%	0/11
ND12-15628	UT00 10	25%	3/12	30%	3/10
ND12-15647	UT00 11	8%	1/12	38%	3/8
ND12-17224	UT00 12	0%	0/12	18%	2/11
ND13-5619	UT00 13	17%	2/12	70%	7/10
ND13-7727	UT00 14	0%	0/12	44%	4/9
ND13-7968	UT00 15	10%	1/10	0%	0/10
OAC 14-01	UT00 16	100%	12/12	83%	10/12
OAC 14-05	UT00 17	18%	2/11	100%	12/12
Shenoyenne (0)	UT0 1	0%	0/10	0%	0/12
MN0095 (E)	UT0 2	0%	0/10	100%	12/12
MN0606CN (SCN)	UT0 3	100%	11/11	100%	11/11
MN1410 (I)	UT0 4	58%	7/12	100%	12/12
M07-260028	UT0 5	73%	8/11	92%	11/12
M07-278126	UT0 6	42%	5/12	58%	7/12
M08-154093	UT0 7	10%	1/10	33%	4/12
M08-218002	UT0 8	67%	8/12	67%	8/12
M08-271196	UT0 9	8%	1/12	73%	8/11
M08-354011	UT0 10	55%	6/11	40%	4/10
M08-359053	UT0 11	83%	10/12	92%	11/12
M08-362045	UT0 12	100%	12/12	100%	11/11
M08-434024	UT0 13	0%	0/10	18%	2/11
M09-251081	UT0 14	0%	0/9	100%	12/12
M09-252032	UT0 15	10%	1/10	91%	10/11
M09-261065	UT0 16	92%	11/12	82%	9/11
M09-269045	UT0 17	100%	11/11	92%	11/12
M09-274025	UT0 18	0%	0/11	0%	0/12
M09-305001	UT0 19	88%	7/8	91%	10/11
M09-305144	UT0 20	100%	10/10	100%	12/12
M09-319035	UT0 21	45%	5/11	64%	7/11
M09-340060	UT0 22	40%	4/10	13%	1/8
ND09-5798	UT0 23	0%	0/12	0%	0/12
ND10-2763	UT0 24	75%	9/12	36%	4/11
ND10-3067	UT0 25	0%	0/12	0%	0/11
ND10-3464	UT0 26	17%	2/12	18%	2/11
ND11-19471	UT0 27	0%	0/12	10%	1/10

Soybean Phytophthora Rps Gene Evaluation, 2016

ISA 45 B-1 Race 4		Dorrance Race 7		Dorrance Race 17		ISA R2T21 A-1 Race	
8/22/2016		9/13/2016		10/5/2016		10/24/2016	
% Dead	# D/T	% Dead	# D/T	% Dead	# D/T	% Dead	# D/T
100%	12/12	83%	5/6	78%	7/9	83%	10/12
100%	12/12	83%	10/12	0%	0/10	100%	11/11
100%	12/12	0%	0/12	67%	8/12	91%	10/11
100%	12/12	0%	0/9	0%	0/10	83%	10/12
92%	22/24	4%	1/24	83%	20/24	8%	2/24
100%	12/12	0%	0/10	0%	0/11	100%	11/11
83%	10/12	100%	12/12	45%	5/11	8%	1/12
0%	0/12	100%	12/12	100%	12/12	0%	0/10
92%	11/12	0%	0/12	75%	9/12	0%	0/12
11%	1/9	80%	8/10	11%	1/9	0%	0/11
83%	10/12	100%	12/12	100%	7/7	8%	1/12
45%	5/11	100%	11/11	82%	9/11	20%	2/10
33%	4/12	83%	10/12	67%	8/12	20%	2/10
100%	12/12	92%	11/12	1%	0.005	92%	11/12
44%	4/9	30%	3/10	27%	3/11	9%	1/11
% Dead	# D/T	% Dead	# D/T	% Dead	# D/T	% Dead	# D/T
75%	9/12	92%	11/12	0%	0/11	9%	1/11
100%	10/10	92%	11/12	58%	7/12	83%	10/12
27%	3/11	44%	4/9	17%	2/12	0%	0/8
100%	11/11	100%	11/11	0%	0/12	22%	2/9
100%	10/10	0%	0/12	17%	2/12	92%	11/12
91%	10/11	92%	11/12	0%	0/12	40%	4/10
100%	12/12	50%	6/12	0%	0/9	100%	11/11
25%	3/12	92%	11/12	8%	1/12	0%	0/11
100%	12/12	0%	0/11	0%	0/12	83%	10/12
100%	12/12	20%	2/10	0%	0/11	100%	12/12
92%	11/12	0%	0/12	0%	0/11	100%	11/11
100%	12/12	67%	6/9	0%	0/11	30%	3/10
100%	9/9	92%	11/12	8%	1/12	67%	8/12
100%	12/12	67%	8/12	0%	0/11	75%	9/12
40%	4/10	64%	7/11	0%	0/6	55%	6/11
100%	10/10	91%	10/11	78%	7/9	91%	10/11
100%	12/12	83%	10/12	0%	0/11	100%	9/9
100%	12/12	0%	0/12	0%	0/11	90%	9/10
100%	12/12	92%	11/12	0%	0/10	92%	11/12
100%	12/12	58%	7/12	36%	4/11	73%	8/11
100%	12/12	100%	12/12	42%	5/12	92%	11/12
100%	12/12	92%	11/12	73%	8/11	100%	11/11
92%	11/12	83%	10/12	9%	1/11	64%	7/11
100%	12/12	0%	0/11	0%	0/12	92%	11/12
100%	11/11	70%	7/10	64%	7/11	89%	8/9
73%	8/11	100%	12/12	0%	0/11	56%	5/9
67%	8/12	92%	11/12	58%	7/12	33%	3/9
91%	10/11	92%	11/12	83%	10/12	100%	11/11
100%	11/11	73%	8/11	75%	9/12	91%	10/11
67%	8/12	18%	2/11	0%	0/10	36%	4/11
100%	12/12	92%	11/12	0%	0/10	92%	11/12
100%	12/12	92%	11/12	0%	0/11	100%	9/9
100%	12/12	92%	11/12	80%	8/10	91%	10/11
100%	12/12	80%	8/10	100%	10/10	100%	12/12
100%	12/12	0%	0/11	0%	0/10	100%	11/11
100%	12/12	0%	0/11	0%	0/12	30%	3/10
92%	11/12	83%	10/12	25%	3/12	92%	12/13
100%	12/12	36%	4/11	20%	2/10	100%	12/12
60%	6/10	33%	3/9	0%	0/10	44%	4/9
30%	3/10	0%	0/11	0%	0/11	10%	1/10
50%	6/12	100%	12/12	67%	8/12	80%	8/10
100%	10/10	0%	0/10	0%	0/10	100%	10/10
70%	7/10	100%	12/12	58%	7/12	0%	0/12
100%	12/12	0%	0/12	0%	0/11	82%	9/11

Strain	MG / Ent #	% Dead	# D/T	% Dead	# D/T
ND12-15653	UT0 28	0%	0/12	64%	7/11
ND12-15670	UT0 29	0%	0/9	64%	7/11
ND12-19542	UT0 30	0%	0/7	30%	3/10
OAC 12-21C	UT0 31	0%	0/11	33%	3/9
Sheyenne (0)	PT0 1	0%	0/11	8%	1/12
MN0095 (E)	PT0 2	8%	1/12	100%	12/12
MN0606CN (SCN)	PT0 3	100%	12/12	67%	8/12
MN1410 (I)	PT0 4	70%	7/10	100%	12/12
M07-340083	PT0 5	100%	11/11	0%	0/12
M10-198005	PT0 6	0%	0/12	0%	0/12
M10-198059	PT0 7	0%	0/8	75%	9/12
M10-200119	PT0 8	64%	7/11	8%	1/12
M10-207126	PT0 9	0%	0/8	8%	1/12
M10-218053	PT0 10	100%	12/12	70%	7/10
M10-218069	PT0 11	82%	9/11	44%	4/9
M10-249014	PT0 12	58%	7/12	92%	11/12
M10-249028	PT0 13	0%	0/12	58%	7/12
M10-268096	PT0 14	0%	0/12	10%	1/10
M11-120121	PT0 15	0%	0/12	10%	1/10
M11-124006	PT0 16	92%	11/12	83%	10/12
M11-130013	PT0 17	17%	2/12	0%	0/11
M11-130058	PT0 18	0%	0/9	0%	0/10
M11-131044	PT0 19	17%	2/12	0%	0/10
ND11-20465	PT0 20	100%	11/11	100%	12/12
ND12-18749	PT0 21	8%	1/12	83%	10/12
ND13-4653	PT0 22	36%	4/11	33%	4/12
ND13-6213	PT0 23	0%	0/10	0%	0/10
ND13-7649	PT0 24	0%	0/10	100%	12/12
ND13-7728	PT0 25	8%	1/12	70%	7/10
ND13-7810	PT0 26	0%	0/10	0%	0/12
OAC 14-07C	PT0 27	10%	1/10	0%	0/12
OAC 14-12C	PT0 28	0%	0/11	0%	0/12
MN1410 (I)	UTI 1	82%	9/11	100%	12/12
IA1022 (SCN)	UTI 2	100%	11/11	92%	11/12
Sheyenne (0)	UTI 3	0%	0/12	0%	0/10
U11-917032	UTI 4	100%	12/12	100%	12/12
M07-209037	UTI 5	100%	12/12	92%	11/12
M07-278122	UTI 6	17%	2/12	0%	0/12
M09-223022	UTI 7	9%	1/11	22%	2/9
M09-240047	UTI 8	82%	9/11	75%	9/12
M09-278026	UTI 9	25%	3/12	17%	2/12
M09-305139	UTI 10	100%	12/12	100%	12/12
M09-343025	UTI 11	82%	9/11	92%	11/12
M09-525033	UTI 12	0%	0/7	25%	2/8
OAC 12-86C	UTI 13	0%	0/11	92%	11/12
ORC 3713N	UTI 14	100%	11/11	100%	12/12
ORC 7512N	UTI 15	100%	11/11	50%	6/12

% Dead	# D/T	% Dead	# D/T	% Dead	# D/T	% Dead	# D/T
100%	12/12	9%	1/11	0%	0/11	80%	8/10
100%	11/11	8%	1/12	0%	0/11	100%	12/12
100%	11/11	9%	1/11	0%	0/10	90%	9/10
9%	1/11	92%	11/12	38%	3/8	9%	1/11
100%	11/11	0%	0/10	0%	0/11	91%	10/11
100%	12/12	100%	11/11	0%	0/10	78%	7/9
80%	8/10	36%	4/11	67%	8/12	83%	10/12
83%	10/12	92%	11/12	75%	9/12	83%	10/12
92%	11/12	92%	11/12	18%	2/11	75%	9/12
0%	0/12	8%	1/12	0%	0/12	0%	0/11
8%	1/12	83%	10/12	0%	0/10	0%	0/8
92%	11/12	55%	6/11	40%	4/10	92%	11/12
100%	12/12	10%	1/10	11%	1/9	100%	9/9
92%	11/12	89%	8/9	70%	7/10	73%	8/11
33%	3/9	18%	2/11	0%	0/11	55%	6/11
100%	12/12	100%	12/12	58%	7/12	92%	11/12
100%	12/12	100%	12/12	0%	0/12	83%	10/12
100%	12/12	0%	0/12	0%	0/11	100%	12/12
100%	12/12	0%	0/9	11%	1/9	83%	10/12
92%	11/12	83%	10/12	89%	8/9	83%	10/12
100%	12/12	0%	0/12	0%	0/11	100%	12/12
100%	12/12	9%	1/11	0%	0/12	100%	11/11
100%	12/12	0%	0/12	9%	1/11	100%	12/12
100%	12/12	100%	12/12	100%	11/11	82%	9/11
92%	11/12	91%	10/11	17%	2/12	50%	5/10
88%	7/8	14%	1/7	67%	8/12	78%	7/9
9%	1/11	0%	0/10	0%	0/10	0%	0/11
100%	11/11	100%	11/11	17%	2/12	75%	9/12
100%	11/11	91%	10/11	0%	0/12	83%	10/12
100%	12/12	0%	0/9	0%	0/12	100%	12/12
0%	0/12	50%	5/10	9%	1/11	0%	0/12
0%	0/12	82%	9/11	100%	11/11	17%	2/12
92%	11/12	100%	12/12	83%	10/12	83%	10/12
75%	9/12	92%	11/12	100%	12/12	92%	11/12
100%	12/12	9%	1/11	0%	0/12	91%	10/11
100%	11/11	100%	12/12	100%	11/11	100%	12/12
100%	12/12	100%	12/12	83%	10/12	100%	12/12
25%	3/12	0%	0/12	8%	1/12	0%	0/11
9%	1/11	0%	0/8	0%	0/12	8%	1/12
55%	6/11	92%	11/12	58%	7/12	92%	11/12
92%	11/12	17%	2/12	8%	1/12	100%	11/11
100%	12/12	100%	12/12	50%	6/12	25%	3/12
83%	10/12	100%	12/12	64%	7/11	92%	11/12
45%	5/11	82%	9/11	0%	0/10	0%	0/8
100%	12/12	100%	12/12	0%	0/12	92%	11/12
100%	12/12	100%	12/12	100%	12/12	92%	11/12
92%	11/12	70%	7/10	100%	11/11	42%	5/12

	Isolate	ISA 69 C-2 Race 1		Dorrance Race 3	
	Dates rated	6/23/2016		7/27/2016	
Differential Name	Rps gene	% Dead	# D/T	% Dead	# D/T
Williams	rps	100%	7/7	82%	9/11
Union	1a	0%	0/11	100%	10/10
Haro 13	1b	0%	0/12	0%	0/12
Williams 79	1c	0%	0/9	0%	0/12
Haro 16	1d	0%	0/12	67%	16/24
Williams 82	1k	0%	0/11	0%	0/11
L76-1988	2	9%	1/11	42%	5/12
PI 171442	3a	0%	0/10	0%	0/12
PRX 146-36	3b	8%	1/12	0%	0/12
PRX 145-48	3c	56%	5/9	30%	3/10
L85-2352	4	20%	2/10	20%	2/10
L85-3059	5	9%	1/11	25%	3/12
Harosoy 62	6	45%	5/11	25%	3/12
Harosoy	7	92%	11/12	100%	10/10
PI 399073	8	0%	0/8	18%	2/11
Strain	MG / Ent #	% Dead	# D/T	% Dead	# D/T
MN1410 (I)	PTI 1	58%	7/12	100%	12/12
IA1022 (SCN)	PTI 2	100%	12/12	67%	8/12
Sheyenne (0)	PTI 3	9%	1/11	0%	0/12
U11-917032	PTI 4	100%	12/12	100%	12/12
AR15-159002	PTI 5	0%	0/11	0%	0/12
AR15-159009	PTI 6	0%	0/9	0%	0/12
E13304	PTI 7	0%	0/12	8%	1/12
M10-171020	PTI 8	0%	0/10	0%	0/12
M10-201034	PTI 9	17%	2/12	0%	0/12
M10-270004	PTI 10	0%	0/12	9%	1/11
M11-120003	PTI 11	0%	0/10	13%	1/8
M11-120020	PTI 12	0%	0/12	83%	10/12
M11-123013	PTI 13	83%	5/6	43%	3/7
M11-123015	PTI 14	83%	10/12	83%	10/12
M11-131005	PTI 15	0%	0/9	0%	0/11
M11-131015	PTI 16	0%	0/11	18%	2/11
M11-131022	PTI 17	100%	12/12	100%	12/12
M11-131060	PTI 18	91%	10/11	92%	11/12
M11-131119	PTI 19	45%	5/11	0%	0/12
M11-132019	PTI 20	100%	12/12	92%	11/12
M11-132044	PTI 21	100%	12/12	100%	12/12
OAC 13-74C-SCN	PTI 22	0%	0/12	17%	2/12
OAC 14-24C	PTI 23	100%	12/12	92%	11/12
OAC 14-26C	PTI 24	8%	1/12	8%	1/12
ORC 3313N	PTI 25	100%	12/12	92%	11/12
ORC 8015	PTI 26	0%	0/11	0%	0/12
U14-103005	PTI 27	100%	12/12	92%	11/12
U14-103008	PTI 28	100%	12/12	100%	12/12
U14-103015	PTI 29	83%	10/12	100%	12/12
U14-103022	PTI 30	100%	11/11	100%	12/12
U14-103043	PTI 31	100%	12/12	100%	12/12
U14-211126	PTI 32	90%	9/10	100%	12/12
U14-222063	PTI 33	100%	12/12	100%	12/12
IA2102 (II)	UTII 1	100%	12/12	100%	12/12
IA1022 (SCN)	UTII 2	100%	12/12	100%	12/12
LD02-4485 (SCN)	UTII 3	45%	5/11	50%	6/12
U11-920017	UTII 4	0%	0/12	0%	0/12
AR13-132037	UTII 5	0%	0/12	0%	0/11
AR13-232106	UTII 6	0%	0/12	50%	6/12
E12042	UTII 7	50%	6/12	75%	9/12
E13100	UTII 8	83%	10/12	92%	11/12
E13126	UTII 9	0%	0/12	0%	0/12
E13132	UTII 10	0%	0/11	33%	4/12
E13268	UTII 11	50%	6/12	50%	6/12

ISA 45 B-1 Race 4		Dorrance Race 7		Dorrance Race 17		ISA R2T21 A-1 Race	
8/25/2016		9/15/2016		10/7/2016		11/15/2016	
% Dead	# D/T	% Dead	# D/T	% Dead	# D/T	% Dead	# D/T
92%	11/12	90%	9/10	100%	12/12	78%	7/9
91%	10/11	89%	8/9	0%	0/10	40%	4/10
100%	12/12	0%	0/12	91%	10/11	100%	12/12
100%	11/11	75%	6/8	0%	0/11	80%	8/10
50%	12/24	35%	7/20	95%	21/22	23%	5/22
83%	10/12	0%	0/9	0%	0/11	91%	10/11
0%	0/12	100%	12/12	83%	10/12	17%	2/12
0%	0/12	100%	12/12	100%	12/12	0%	0/12
91%	10/11	0%	0/11	73%	8/11	0%	0/12
10%	1/10	100%	10/10	75%	6/8	0%	0/10
11%	1/9	100%	9/9	92%	11/12	0%	0/10
0%	0/11	100%	11/11	100%	12/12	0%	0/11
8%	1/12	91%	10/11	100%	12/12	0%	0/12
83%	10/12	78%	7/9	73%	8/11	73%	8/11
0%	0/11	83%	10/12	33%	4/12	25%	3/12
% Dead	# D/T	% Dead	# D/T	% Dead	# D/T	% Dead	# D/T
100%	12/12	100%	12/12	70%	7/10	100%	11/11
92%	11/12	64%	7/11	100%	12/12	92%	11/12
1100%	11	0%	0/10	0%	0/9	100%	12/12
11%	0.11	100%	10/10	100%	12/12	100%	11/11
100%	12/12	0%	0/8	0%	0/10	100%	12/12
91%	10/11	10%	1/10	0%	0/7	100%	10/10
100%	6/6	25%	3/12	10%	1/10	100%	12/12
92%	11/12	10%	1/10	0%	0/9	100%	12/12
100%	12/12	0%	0/9	9%	1/11	92%	11/12
89%	8/9	0%	0/10	0%	0/6	100%	12/12
75%	9/12	0%	0/10	0%	0/11	100%	12/12
100%	12/12	22%	2/9	0%	0/8	100%	11/11
100%	12/12	100%	10/10	86%	6/7	82%	9/11
100%	10/10	100%	11/11	50%	3/6	75%	9/12
86%	6/7	0%	0/10	14%	1/7	100%	12/12
100%	7/7	17%	2/12	0%	0/8	100%	12/12
100%	12/12	100%	12/12	91%	10/11	92%	11/12
100%	11/11	100%	12/12	78%	7/9	100%	12/12
100%	10/10	83%	10/12	10%	1/10	100%	12/12
100%	12/12	91%	10/11	91%	10/11	80%	8/10
100%	12/12	100%	11/11	75%	9/12	100%	11/11
100%	12/12	0%	0/11	0%	0/9	92%	11/12
92%	11/12	100%	12/12	64%	7/11	83%	10/12
0%	0/11	25%	3/12	40%	4/10	17%	2/12
100%	12/12	100%	11/11	100%	12/12	92%	11/12
20%	2/10	42%	5/12	0%	0/12	0%	0/11
83%	10/12	90%	9/10	86%	6/7	92%	11/12
100%	12/12	100%	12/12	89%	8/9	100%	12/12
92%	11/12	100%	12/12	82%	9/11	100%	12/12
100%	11/11	100%	11/11	70%	7/10	100%	12/12
100%	8/8	100%	11/11	100%	12/12	100%	12/12
91%	10/11	90%	9/10	100%	12/12	100%	10/10
92%	11/12	92%	11/12	91%	10/11	100%	11/11
100%	12/12	92%	11/12	100%	12/12	100%	11/11
100%	12/12	75%	9/12	91%	10/11	73%	8/11
100%	12/12	50%	6/12	60%	6/10	92%	11/12
100%	12/12	30%	3/10	8%	1/12	100%	11/11
100%	12/12	8%	1/12	0%	0/9	100%	12/12
100%	12/12	50%	5/10	0%	0/10	100%	12/12
100%	12/12	100%	12/12	58%	7/12	100%	12/12
100%	12/12	42%	5/12	75%	9/12	92%	11/12
100%	12/12	0%	0/10	0%	0/11	100%	12/12
100%	12/12	36%	4/11	0%	0/12	100%	12/12
100%	11/11	92%	11/12	33%	4/12	100%	12/12

Strain	MG / Ent #	% Dead	# D/T	% Dead	# D/T
E13298	UTH 12	100%	12/12	64%	7/11
E13345	UTH 13	0%	0/11	0%	0/12
E13364	UTH 14	0%	0/11	33%	4/12
E13370	UTH 15	0%	0/12	42%	5/12
LD10-10198	UTH 16	100%	12/12	100%	12/12
LD11-643	UTH 17	0%	0/11	0%	0/11
M08-365100	UTH 18	100%	12/12	100%	12/12
M09-278096	UTH 19	91%	10/11	100%	11/11
MSC09-777143	UTH 20	100%	12/12	83%	10/12
U11-911079	UTH 21	0%	0/11	0%	0/11
U13-603120	UTH 22	0%	0/9	0%	0/12
U13-604147	UTH 23	75%	9/12	75%	9/12
U13-609144	UTH 24	50%	6/12	73%	8/11
U13-912010	UTH 25	0%	0/11	0%	0/12
U13-912032	UTH 26	0%	0/12	0%	0/12
U13-918042	UTH 27	33%	4/12	58%	7/12
U13-926082	UTH 28	100%	12/12	91%	10/11
IA2102 (II)	PTIIA 1	82%	9/11	100%	12/12
IA1022 (SCN)	PTIIA 2	83%	10/12	67%	8/12
LD02-4485 (SCN)	PTIIA 3	75%	9/12	42%	5/12
U11-920017	PTIIA 4	0%	0/9	27%	3/11
DSN11-12073	PTIIA 5	0%	0/12	0%	0/12
DSN11-12119	PTIIA 6	0%	0/11	0%	0/12
E13901	PTIIA 7	0%	0/12	0%	0/12
E13902	PTIIA 8	0%	0/12	0%	0/11
E13903	PTIIA 9	0%	0/12	8%	1/12
E14077	PTIIA 10	50%	6/12	25%	3/12
E14141	PTIIA 11	0%	0/12	0%	0/11
E14143	PTIIA 12	0%	0/12	8%	1/12
E14148	PTIIA 13	100%	12/12	100%	12/12
E14208	PTIIA 14	0%	0/12	30%	3/10
E14273	PTIIA 15	100%	12/12	75%	9/12
E14309	PTIIA 16	0%	0/12	8%	1/12
E14314	PTIIA 17	0%	0/12	0%	0/12
E14703	PTIIA 18	0%	0/12	0%	0/12
HM13-W154	PTIIA 19	0%	0/12	0%	0/12
HM13-W156	PTIIA 20	0%	0/12	8%	1/12
LD13-4902a	PTIIA 21	100%	12/12	91%	10/11
LD13-6692	PTIIA 22	0%	0/11	75%	9/12
M11-123087	PTIIA 23	100%	10/10	82%	9/11
M11-124010	PTIIA 24	42%	5/12	42%	5/12
IA2102 (II)	PTIIB 1	100%	12/12	100%	11/11
IA1022 (SCN)	PTIIB 2	100%	11/11	100%	12/12
LD02-4485 (SCN)	PTIIB 3	33%	4/12	42%	5/12
U11-920017	PTIIB 4	0%	0/10	10%	1/10
AR15-259014	PTIIB 5	0%	0/11	0%	0/10
AR15-259021	PTIIB 6	100%	12/12	100%	11/11
AR15-259036	PTIIB 7	0%	0/12	8%	1/12
ORC 5814	PTIIB 8	27%	3/11	36%	4/11
ORC 8715	PTIIB 9	0%	0/11	0%	0/11
U13-223411	PTIIB 10	100%	12/12	100%	12/12
U13-227425	PTIIB 11	8%	1/12	9%	1/11
U13-228421	PTIIB 12	100%	12/12	100%	10/10
U13-231427	PTIIB 13	100%	11/11	100%	12/12
U13-235297	PTIIB 14	92%	11/12	100%	12/12
U14-903100	PTIIB 15	0%	0/12	55%	6/11
U14-909100	PTIIB 16	100%	12/12	92%	11/12
U14-910097	PTIIB 17	100%	12/12	75%	9/12
U14-912101	PTIIB 18	92%	11/12	100%	12/12
U14-914093	PTIIB 19	18%	2/11	0%	0/11
U14-915126	PTIIB 20	100%	12/12	80%	8/10
U14-919098	PTIIB 21	10%	1/10	11%	1/9
U14-923097	PTIIB 22	60%	6/10	33%	4/12
U14-925152	PTIIB 23	100%	12/12	100%	12/12
U14-927136	PTIIB 24	36%	4/11	0%	0/12

% Dead	# D/T	% Dead	# D/T	% Dead	# D/T	% Dead	# D/T
100%	12/12	75%	9/12	92%	11/12	83%	10/12
92%	11/12	0%	0/12	0%	0/11	83%	10/12
92%	11/12	0%	0/12	0%	0/11	67%	8/12
100%	12/12	0%	0/11	0%	0/12	92%	11/12
100%	12/12	100%	12/12	100%	12/12	100%	12/12
100%	12/12	0%	0/10	0%	0/11	92%	11/12
100%	12/12	92%	11/12	100%	12/12	100%	12/12
100%	12/12	100%	12/12	100%	12/12	100%	12/12
100%	11/11	60%	6/10	100%	11/11	92%	11/12
100%	12/12	0%	0/12	0%	0/11	92%	11/12
60%	3/5	0%	0/7	0%	0/11	100%	12/12
100%	12/12	100%	11/11	75%	9/12	100%	12/12
83%	10/12	45%	5/11	45%	5/11	91%	10/11
92%	11/12	0%	0/12	0%	0/12	100%	12/12
83%	10/12	0%	0/11	8%	1/12	100%	12/12
100%	12/12	42%	5/12	58%	7/12	100%	12/12
82%	9/11	55%	6/11	83%	10/12	100%	12/12
100%	12/12	83%	10/12	82%	9/11	100%	12/12
83%	10/12	58%	7/12	92%	11/12	58%	7/12
100%	12/12	73%	8/11	42%	5/12	100%	12/12
100%	11/11	0%	0/11	0%	0/11	90%	9/10
100%	12/12	0%	0/12	9%	1/11	100%	12/12
100%	12/12	0%	0/12	0%	0/12	100%	12/12
67%	8/12	0%	0/12	33%	4/12	42%	5/12
92%	11/12	9%	1/11	18%	2/11	100%	12/12
100%	12/12	0%	0/10	0%	0/12	100%	12/12
75%	9/12	30%	3/10	33%	4/12	75%	9/12
100%	12/12	83%	10/12	0%	0/12	92%	11/12
100%	12/12	8%	1/12	0%	0/12	75%	9/12
100%	12/12	92%	11/12	92%	11/12	100%	12/12
100%	12/12	38%	3/8	17%	2/12	100%	12/12
83%	10/12	100%	12/12	100%	11/11	92%	11/12
91%	10/11	18%	2/11	0%	0/11	100%	12/12
75%	9/12	0%	0/11	0%	0/12	75%	9/12
100%	10/10	0%	0/12	8%	1/12	100%	12/12
0%	0/12	9%	1/11	73%	8/11	0%	0/12
25%	3/12	8%	1/12	64%	7/11	8%	1/12
100%	12/12	100%	11/11	100%	12/12	92%	11/12
83%	10/12	100%	12/12	0%	0/12	67%	8/12
70%	7/10	82%	9/11	100%	11/11	73%	8/11
100%	12/12	25%	3/12	33%	4/12	92%	11/12
100%	11/11	75%	9/12	100%	12/12	100%	12/12
100%	10/10	100%	12/12	100%	12/12	83%	10/12
83%	10/12	67%	8/12	25%	3/12	100%	12/12
100%	11/11	25%	3/12	36%	4/11	100%	12/12
100%	12/12	0%	0/10	0%	0/12	100%	12/12
100%	12/12	100%	12/12	100%	9/9	92%	11/12
100%	12/12	25%	3/12	0%	0/12	100%	12/12
100%	12/12	60%	6/10	25%	3/12	100%	12/12
0%	0/12	100%	12/12	91%	10/11	0%	0/12
100%	12/12	100%	12/12	100%	11/11	73%	8/11
56%	5/9	0%	0/10	40%	4/10	82%	9/11
100%	12/12	100%	11/11	100%	12/12	100%	11/11
100%	12/12	100%	11/11	100%	12/12	100%	12/12
100%	12/12	75%	9/12	100%	12/12	92%	11/12
0/12%	0/12%	100%	11/11	100%	11/11	0%	0/12
100%	12/12	100%	12/12	100%	12/12	83%	10/12
55%	6/11	100%	11/11	50%	6/12	8%	1/12
92%	11/12	92%	11/12	100%	12/12	45%	5/11
0%	0/11	100%	12/12	82%	9/11	0%	0/10
100%	12/12	100%	12/12	100%	12/12	100%	12/12
0%	0/11	78%	7/9	73%	8/11	10%	1/10
8%	1/12	83%	10/12	92%	11/12	17%	2/12
100%	11/11	100%	11/11	100%	12/12	100%	12/12
8%	1/12	83%	10/12	83%	10/12	0%	0/12

	Isolate	ISA 69 C-2 Race 1		Dorrance Race 3	
	Dates rated	7/13/2016		8/3/2016	
Differential Name	Rps gene	% Dead	# D/T	% Dead	# D/T
Williams	rps	100%	12/12	100%	12/12
Union	1a	0%	0/12	100%	12/12
Haro 13	1b	18%	2/11	0%	0/11
Williams 79	1c	18%	2/11	0%	0/10
Haro 16	1d	18%	4/22	61%	14/23
Williams 82	1k	0%	0/11	0%	0/11
L76-1988	2	50%	6/12	0%	0/11
PI 171442	3a	0%	0/12	0%	0/11
PRX 146-36	3b	33%	4/12	0%	0/12
PRX 145-48	3c	20%	2/10	9%	1/11
L85-2352	4	25%	3/12	0%	0/12
L85-3059	5	45%	5/11	0%	0/11
Harosoy 62	6	25%	3/12	17%	2/12
Harosoy	7	92%	11/12	100%	12/12
PI 399073	8	8%	1/12	0%	0/12
Strain	MG / Ent #	% Dead	# D/T	% Dead	# D/T
IA3023 (III)	UTIII 1	100%	12/12	100%	12/12
IA3048 (SCN)	UTIII 2	83%	10/12	83%	10/12
LD07-3395bf (SCN)	UTIII 3	100%	11/11	100%	11/11
U11-920017	UTIII 4	0%	0/10	20%	2/10
AR14-248020	UTIII 5	0%	0/12	36%	4/11
DSN11-06152	UTIII 6	75%	9/12	67%	8/12
HR10-3325	UTIII 7	8%	1/12	0%	0/11
LD11-10069	UTIII 8	0%	0/12	0%	0/12
LD11-2170	UTIII 9	18%	2/11	50%	6/12
LD12-3866	UTIII 10	100%	12/12	100%	12/12
LG12-2177	UTIII 11	17%	2/12	17%	2/12
LG13-1006	UTIII 12	100%	12/12	91%	10/11
SA12-1455	UTIII 13	100%	12/12	100%	12/12
U11-346046	UTIII 14	0%	0/12	0%	0/12
U11-377007	UTIII 15	100%	10/10	100%	11/11
U11-396034	UTIII 16	17%	2/12	33%	4/12
U11-494100	UTIII 17	0%	0/12	0%	0/12
U11-614093	UTIII 18	64%	7/11	42%	5/12
U12-209068	UTIII 19	100%	12/12	91%	10/11
U12-428210	UTIII 20	100%	10/10	100%	11/11
U12-428214	UTIII 21	100%	12/12	100%	12/12
U13-602187	UTIII 22	8%	1/12	0%	0/12
U13-614037	UTIII 23	100%	12/12	100%	12/12
U13-931068	UTIII 24	0%	0/11	0%	0/12
IA3023 (III)	PTIIIA 1	100%	12/12	100%	12/12
IA3048 (SCN)	PTIIIA 2	100%	12/12	67%	8/12
LD07-3395bf (SCN)	PTIIIA 3	100%	12/12	100%	12/12
U11-920017	PTIIIA 4	0%	0/12	0%	0/10
AR15-359004	PTIIIA 5	25%	3/12	100%	12/12
AR15-359008	PTIIIA 6	0%	0/12	0%	0/12
AR15-359011	PTIIIA 7	0%	0/12	0%	0/12
AR15-359028	PTIIIA 8	25%	3/12	17%	2/12
AR15-359042	PTIIIA 9	75%	9/12	92%	11/12
DSN11-03004	PTIIIA 10	100%	12/12	83%	10/12
DSN11-03174	PTIIIA 11	100%	12/12	92%	11/12
DSN11-10057	PTIIIA 12	100%	12/12	100%	12/12
DSN11-27183	PTIIIA 13	8%	1/12	0%	0/12
LG13-1952	PTIIIA 14	100%	10/10	100%	12/12
LG13-3578	PTIIIA 15	100%	12/12	100%	12/12
LG13-3594	PTIIIA 16	60%	6/10	56%	5/9
LG13-3614	PTIIIA 17	100%	11/11	100%	11/11
LG13-3975	PTIIIA 18	100%	12/12	100%	12/12
LG14-6165	PTIIIA 19	100%	12/12	100%	12/12
LG14-6166	PTIIIA 20	100%	11/11	92%	11/12
SA13-1310	PTIIIA 21	100%	12/12	92%	11/12
SA13-1363	PTIIIA 22	100%	12/12	92%	11/12
SA13-1385	PTIIIA 23	100%	12/12	100%	12/12

ISA 45 B-1 Race 4		Dorrance Race 7		Dorrance Race 17		ISA R2T21 A-1 Race	
8/30/2016		9/20/2016		10/11/2016		11/16/2016	
% Dead	# D/T	% Dead	# D/T	% Dead	# D/T	% Dead	# D/T
71%	5/7	80%	8/10	75%	9/12	73%	8/11
60%	6/10	50%	5/10	0%	0/13	73%	8/11
83%	10/12	8%	1/12	92%	11/12	83%	10/12
75%	6/8	0%	0/12	0%	0/11	67%	6/9
0%	0/12	4%	1/24	85%	17/20	21%	5/24
67%	8/12	0%	0/11	0%	0/11	73%	8/11
20%	2/10	100%	12/12	91%	10/11	0%	0/12
0%	0/10	83%	10/12	100%	12/12	0%	0/11
42%	5/12	0%	0/12	55%	6/11	0%	0/12
0%	0/8	89%	8/9	50%	5/10	0%	0/12
10%	1/10	100%	12/12	67%	8/12	0%	0/11
0%	0/10	100%	11/11	100%	11/11	0%	0/9
18%	2/11	75%	9/12	70%	7/10	0%	0/10
75%	9/12	100%	12/12	67%	8/12	82%	9/11
0%	0/12	90%	9/10	0%	0/12	0%	0/8
% Dead	# D/T	% Dead	# D/T	% Dead	# D/T	% Dead	# D/T
100%	12/12	100%	12/12	100%	11/11	100%	11/11
67%	8/12	75%	9/12	75%	9/12	92%	11/12
42%	5/12	50%	6/12	64%	7/11	92%	11/12
56%	5/9	0%	0/9	0%	0/12	50%	5/10
100%	12/12	67%	8/12	0%	0/10	91%	10/11
25%	3/12	92%	11/12	83%	10/12	8%	1/12
100%	12/12	8%	1/12	0%	0/12	83%	10/12
64%	7/11	0%	0/12	0%	0/11	92%	11/12
100%	12/12	0%	0/12	0%	0/12	92%	11/12
83%	10/12	67%	8/12	92%	11/12	75%	9/12
92%	11/12	0%	0/12	8%	1/12	58%	7/12
17%	2/12	17%	2/12	67%	8/12	70%	7/10
92%	11/12	73%	8/11	92%	11/12	75%	9/12
8%	1/12	8%	1/12	8%	1/12	0%	0/11
100%	11/11	100%	12/12	100%	11/11	100%	12/12
100%	12/12	0%	0/12	0%	0/12	100%	12/12
50%	6/12	0%	0/10	0%	0/12	27%	3/11
89%	8/9	75%	9/12	50%	6/12	92%	11/12
67%	6/9	36%	4/11	67%	6/9	25%	3/12
91%	10/11	78%	7/9	88%	7/8	83%	10/12
89%	8/9	64%	7/11	67%	6/9	92%	11/12
64%	7/11	18%	2/11	0%	0/7	100%	12/12
92%	11/12	75%	9/12	63%	5/8	83%	10/12
100%	12/12	9%	1/11	100%	10/10	73%	8/11
100%	12/12	83%	10/12	83%	10/12	100%	12/12
92%	11/12	75%	9/12	60%	6/10	100%	12/12
71%	5/7	73%	8/11	73%	8/11	75%	9/12
75%	9/12	0%	0/12	9%	1/11	64%	7/11
100%	12/12	92%	11/12	0%	0/12	100%	12/12
100%	12/12	0%	0/12	0%	0/12	91%	10/11
92%	11/12	0%	0/11	0%	0/11	91%	10/11
100%	12/12	0%	0/12	0%	0/12	73%	8/11
100%	11/11	91%	10/11	42%	5/12	92%	11/12
75%	9/12	58%	7/12	100%	12/12	75%	9/12
100%	12/12	50%	6/12	100%	11/11	83%	10/12
100%	10/10	75%	9/12	100%	12/12	92%	11/12
92%	11/12	0%	0/12	8%	1/12	100%	12/12
100%	10/10	100%	12/12	90%	9/10	100%	12/12
83%	10/12	8%	1/12	80%	8/10	20%	2/10
100%	12/12	58%	7/12	75%	9/12	91%	10/11
100%	11/11	64%	7/11	100%	11/11	92%	11/12
82%	9/11	45%	5/11	75%	9/12	73%	8/11
100%	12/12	100%	11/11	91%	10/11	100%	10/10
83%	10/12	50%	6/12	100%	11/11	100%	12/12
91%	10/11	n/a	n/a	n/a	n/a	n/a	n/a
58%	7/12	58%	7/12	1%	0.0091667	64%	7/11
91%	10/11	75%	9/12	100%	12/12	100%	11/11

Strain	MG / Ent #	% Dead	# D/T	% Dead	# D/T
SA13-2047	PTIIIA 24	100%	12/12	100%	12/12
SA13-2126	PTIIIA 25	100%	12/12	100%	12/12
SA13-2489	PTIIIA 26	92%	11/12	100%	12/12
SA13-2699	PTIIIA 27	92%	11/12	100%	12/12
SA13-3135	PTIIIA 28	100%	12/12	91%	10/11
IA3023 (III)	PTIIIB 1	100%	12/12	100%	12/12
IA3048 (SCN)	PTIIIB 2	92%	11/12	100%	12/12
LD07-3395bf (SCN)	PTIIIB 3	100%	12/12	100%	11/11
U11-920017	PTIIIB 4	10%	1/10	73%	8/11
HM12-W060	PTIIIB 5	100%	12/12	100%	12/12
HM13-R084	PTIIIB 6	0%	0/11	0%	0/11
HM13-W040	PTIIIB 7	0%	0/12	0%	0/11
HM13-W073	PTIIIB 8	0%	0/12	58%	7/12
HM13-W091	PTIIIB 9	0%	0/12	0%	0/11
HM14-C055	PTIIIB 10	0%	0/12	0%	0/12
HR13-102381	PTIIIB 11	45%	5/11	17%	2/12
HR13-102735	PTIIIB 12	8%	1/12	25%	3/12
LD13-759	PTIIIB 13	25%	3/12	0%	0/12
LD13-767	PTIIIB 14	33%	4/12	18%	2/11
U13-215422	PTIIIB 15	100%	11/11	100%	11/11
U13-220427	PTIIIB 16	56%	5/9	91%	10/11
U13-229443	PTIIIB 17	100%	12/12	91%	10/11
U13-231286	PTIIIB 18	33%	4/12	100%	11/11
U13-233294	PTIIIB 19	100%	11/11	100%	11/11
U13-233425	PTIIIB 20	0%	0/11	25%	3/12
U13-235283	PTIIIB 21	100%	12/12	100%	12/12
U13-329025	PTIIIB 22	92%	11/12	92%	11/12
U14-605217	PTIIIB 23	17%	2/12	55%	6/11
U14-608170	PTIIIB 24	64%	7/11	45%	5/11
U14-615073	PTIIIB 25	100%	12/12	100%	11/11
U14-902082	PTIIIB 26	100%	11/11	100%	12/12
U14-912075	PTIIIB 27	100%	12/12	100%	12/12
U14-924158	PTIIIB 28	100%	12/12	100%	12/12
U14-926130	PTIIIB 29	92%	11/12	100%	10/10
LD06-7620 (IV)	UTIV 1	100%	12/12	92%	11/12
LD00-2817P (L)	UTIV 2	100%	12/12	100%	12/12
LD07-3395bf (SCN)	UTIV 3	100%	12/12	100%	11/11
LD12-10534	UTIV 4	100%	12/12	100%	12/12
LG10-3278	UTIV 5	82%	9/11	25%	3/12
LG11-6759	UTIV 6	100%	12/12	91%	10/11
LG11-6760	UTIV 7	100%	12/12	100%	11/11
LG11-6761	UTIV 8	100%	12/12	100%	12/12
LG13-3925	UTIV 9	0%	0/12	0%	0/12
LG13-3981	UTIV 10	100%	11/11	92%	11/12
LG13-3993	UTIV 11	100%	12/12	100%	12/12
SA10-8471	UTIV 12	100%	12/12	100%	12/12
SA12-1451	UTIV 13	100%	12/12	100%	12/12
SA12-1471	UTIV 14	92%	11/12	67%	8/12

% Dead	# D/T	% Dead	# D/T	% Dead	# D/T	% Dead	# D/T
83%	10/12	50%	5/10	100%	11/11	92%	11/12
100%	12/12	92%	11/12	64%	7/11	75%	9/12
92%	11/12	92%	11/12	50%	5/10	91%	10/11
92%	11/12	100%	8/8	50%	6/12	92%	11/12
58%	7/12	50%	6/12	90%	9/10	42%	5/12
92%	11/12	40%	4/10	92%	11/12	92%	11/12
92%	11/12	100%	12/12	33%	4/12	92%	11/12
50%	6/12	36%	4/11	55%	6/11	83%	10/12
64%	7/11	0%	0/10	0%	0/12	100%	9/9
100%	11/11	92%	11/12	58%	7/12	83%	10/12
0%	0/12	0%	0/12	0%	0/12	0%	0/12
42%	5/12	0%	0/12	0%	0/11	9%	1/11
90%	9/10	0%	0/12	0%	0/11	64%	7/11
42%	5/12	0%	0/12	0%	0/12	50%	6/12
0%	0/12	0%	0/12	0%	0/12	0%	0/12
25%	3/12	8%	1/12	10%	1/10	33%	4/12
92%	11/12	8%	1/12	9%	1/11	92%	11/12
100%	11/11	33%	4/12	0%	0/12	92%	11/12
100%	12/12	0%	0/12	0%	0/10	73%	8/11
1%	0/1	100%	12/12	100%	11/11	100%	12/12
70%	7/10	60%	6/10	50%	4/8	56%	5/9
90%	9/10	100%	8/8	90%	9/10	78%	7/9
100%	11/11	100%	12/12	0%	0/11	100%	10/10
100%	11/11	33%	4/12	89%	8/9	75%	9/12
100%	12/12	0%	0/11	0%	0/12	83%	10/12
92%	11/12	100%	12/12	90%	9/10	92%	11/12
92%	11/12	91%	10/11	70%	7/10	82%	9/11
56%	5/9	20%	2/10	25%	2/8	38%	3/8
83%	10/12	42%	5/12	73%	8/11	60%	6/10
71%	5/7	89%	8/9	64%	7/11	91%	10/11
100%	11/11	64%	7/11	70%	7/10	75%	9/12
92%	11/12	83%	10/12	50%	5/10	55%	6/11
100%	9/9	92%	11/12	75%	9/12	91%	10/11
75%	9/12	100%	11/11	60%	6/10	89%	8/9
92%	11/12	55%	6/11	83%	10/12	100%	12/12
92%	11/12	100%	11/11	58%	7/12	92%	11/12
100%	11/11	100%	12/12	92%	11/12	92%	11/12
67%	8/12	100%	12/12	100%	11/11	100%	12/12
0%	0/12	100%	12/12	90%	9/10	0%	0/10
100%	12/12	92%	11/12	100%	11/11	92%	11/12
100%	10/10	100%	12/12	100%	12/12	91%	10/11
100%	12/12	100%	12/12	92%	11/12	100%	12/12
50%	6/12	0%	0/12	0%	0/10	67%	8/12
100%	12/12	75%	9/12	100%	11/11	55%	6/11
92%	11/12	100%	12/12	100%	12/12	92%	11/12
78%	7/9	100%	12/12	75%	6/8	100%	11/11
88%	7/8	100%	12/12	82%	9/11	92%	11/12
64%	7/11	80%	8/10	64%	7/11	73%	8/11

	Isolate	ISA 69 C-2 Race 1		Dorrance Race 3	
	Dates rated	7/13/2016		8/5/2016	
Differential Name	Rps gene	% Dead	# D/T	% Dead	# D/T
Williams	rps	100%	8/8	100%	11/11
Union	1a	0%	0/12	92%	11/12
Haro 13	1b	45%	5/11	0%	0/12
Williams 79	1c	17%	2/12	9%	1/11
Haro 16	1d	30%	7/23	70%	16/23
Williams 82	1k	0%	0/11	8%	1/12
L76-1988	2	33%	4/12	17%	2/12
PI 171442	3a	0%	0/12	0%	0/11
PRX 146-36	3b	17%	2/12	0%	0/11
PRX 145-48	3c	58%	7/12	20%	2/10
L85-2352	4	25%	2/8	18%	2/11
L85-3059	5	70%	7/10	17%	2/12
Harosoy 62	6	67%	8/12	8%	1/12
Harosoy	7	83%	10/12	100%	12/12
PI 399073	8	20%	2/10	0%	0/10
Strain	MG / Ent #	% Dead	# D/T	% Dead	# D/T
LD06-7620 (IV)	PTIV 1	100%	11/11	82%	9/11
LD00-2817P (L)	PTIV 2	100%	12/12	100%	12/12
LD07-3395bf (SCN)	PTIV 3	100%	12/12	100%	12/12
DSN11-03148	PTIV 4	100%	12/12	100%	12/12
DSN11-04129	PTIV 5	67%	8/12	33%	4/12
JTN-4116	PTIV 6	100%	12/12	100%	12/12
K14-1269	PTIV 7	100%	12/12	100%	12/12
K14-1347	PTIV 8	100%	11/11	92%	11/12
K14-1357	PTIV 9	17%	2/12	0%	0/11
K14-1358	PTIV 10	58%	7/12	22%	2/9
K14-1387	PTIV 11	0%	0/10	11%	1/9
K14-1401	PTIV 12	100%	12/12	100%	11/11
K14-1468	PTIV 13	92%	11/12	100%	12/12
K14-1486	PTIV 14	0%	0/10	0%	0/11
K14-1493	PTIV 15	9%	1/11	22%	2/9
LG13-3576	PTIV 16	100%	12/12	100%	12/12
LG13-3622	PTIV 17	100%	11/11	100%	11/11
LG13-3729	PTIV 18	100%	11/11	100%	11/11
LG13-3895	PTIV 19	0%	0/12	0%	0/12
LG13-3971	PTIV 20	0%	0/12	0%	0/12
LG13-3992	PTIV 21	100%	12/12	100%	12/12
LG13-4025	PTIV 22	0%	0/11	0%	0/11
LG14-6169	PTIV 23	50%	6/12	30%	3/10
LG14-7959	PTIV 24	90%	9/10	83%	10/12
LG14-7965	PTIV 25	100%	12/12	100%	10/10
LG14-8024	PTIV 26	0%	0/12	0%	0/10
SA13-5761	PTIV 27	40%	4/10	0%	0/11
AG00632 (00)	UT00RR 1	9%	1/11	0%	0/12
AG00133	UT00RR 2	8%	1/12	0%	0/11
AG00932	UT00RR 3	30%	3/10	17%	2/12
ND12-21598	UT00RR 4	100%	12/12	92%	11/12
ND12-24081	UT00RR 5	n/a	n/a	n/a	n/a
ND13-17129	UT00RR 6	100%	11/11	92%	11/12
ND13-18800	UT00RR 7	100%	12/12	100%	12/12
ND13-20583	UT00RR 8	0%	0/10	9%	1/11
ND13-20590	UT00RR 9	0%	0/10	9%	1/11
ND13-21779	UT00RR 10	42%	5/12	33%	4/12
AG0532 (0)	UT0RR 1	0%	0/12	67%	8/12
AG0231 (E)	UT0RR 2	0%	0/11	0%	0/12
AG0832	UT0RR 3	17%	2/12	0%	0/12
AG1234	UT0RR 4	0%	0/12	0%	0/12
M09-876012	UT0RR 5	90%	9/10	92%	11/12
M09-876048	UT0RR 6	8%	1/12	33%	4/12
M09-878011	UT0RR 7	42%	5/12	75%	9/12
M09-878087	UT0RR 8	100%	12/12	92%	11/12
M09-956021	UT0RR 9	17%	2/12	67%	8/12
M09-957051	UT0RR 10	50%	6/12	83%	10/12

ISA 45 B-1 Race 4		Dorrance Race 7		Dorrance Race 17		ISA R2T21 A-1 Race	
9/1/2016		9/23/2016		10/17/2016		11/22/2016	
% Dead	# D/T	% Dead	# D/T	% Dead	# D/T	% Dead	# D/T
90%	9/10	78%	7/9	91%	10/11	83%	10/12
83%	10/12	36%	4/11	0%	0/11	70%	7/10
83%	10/12	0%	0/11	58%	7/12	91%	10/11
90%	9/10	0%	0/11	0%	0/10	75%	9/12
4%	1/23	0%	0/24	61%	14/23	0%	0/23
75%	9/12	0%	0/11	8%	1/12	83%	10/12
25%	3/12	92%	11/12	17%	2/12	8%	1/12
0%	0/11	100%	11/11	92%	11/12	0%	0/12
92%	11/12	0%	0/12	17%	2/12	0%	0/12
0%	0/10	88%	7/8	57%	4/7	11%	1/9
0%	0/8	100%	12/12	27%	3/11	9%	1/11
11%	1/9	100%	10/10	100%	11/11	0%	0/12
0%	0/12	83%	10/12	83%	10/12	0%	0/11
75%	9/12	100%	10/10	64%	7/11	67%	8/12
0%	0/10	80%	8/10	0%	0/9	0%	0/10
% Dead	# D/T	% Dead	# D/T	% Dead	# D/T	% Dead	# D/T
100%	12/12	75%	9/12	75%	9/12	75%	9/12
100%	12/12	75%	9/12	8%	1/12	83%	10/12
92%	11/12	67%	8/12	11%	1/9	83%	10/12
83%	10/12	55%	6/11	67%	8/12	73%	8/11
8%	1/12	91%	10/11	73%	8/11	33%	4/12
75%	9/12	92%	11/12	92%	11/12	8%	1/12
100%	11/11	91%	10/11	73%	8/11	100%	10/10
100%	12/12	75%	9/12	82%	9/11	100%	12/12
100%	12/12	17%	2/12	0%	0/12	100%	10/10
100%	12/12	27%	3/11	18%	2/11	83%	10/12
92%	11/12	0%	0/10	0%	0/7	80%	8/10
100%	11/11	100%	12/12	75%	6/8	80%	8/10
82%	9/11	89%	8/9	50%	5/10	67%	8/12
0%	0/11	56%	5/9	0%	0/8	11%	1/9
100%	11/11	73%	8/11	0%	0/10	89%	8/9
100%	12/12	92%	11/12	58%	7/12	100%	12/12
92%	11/12	58%	7/12	80%	8/10	83%	10/12
100%	12/12	92%	11/12	45%	5/11	90%	9/10
100%	12/12	10%	1/10	0%	0/10	82%	9/11
91%	10/11	8%	1/12	0%	0/11	100%	10/10
100%	12/12	100%	12/12	58%	7/12	67%	8/12
92%	11/12	0%	0/10	0%	0/12	82%	9/11
100%	12/12	33%	4/12	25%	3/12	92%	11/12
100%	12/12	75%	9/12	33%	4/12	67%	8/12
91%	10/11	82%	9/11	50%	6/12	75%	9/12
100%	12/12	0%	0/12	0%	0/12	100%	11/11
90%	9/10	0%	0/8	0%	0/8	86%	6/7
91%	10/11	0%	0/11	8%	1/12	100%	12/12
100%	12/12	8%	1/12	0%	0/11	100%	12/12
100%	11/11	27%	3/11	10%	1/10	92%	11/12
92%	11/12	92%	11/12	75%	9/12	67%	8/12
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
100%	12/12	100%	12/12	100%	11/11	100%	11/11
100%	12/12	100%	12/12	92%	11/12	92%	11/12
56%	5/9	8%	1/12	9%	1/11	42%	5/12
70%	7/10	10%	1/10	0%	0/12	55%	6/11
27%	3/11	100%	12/12	27%	3/11	8%	1/12
100%	12/12	0%	0/12	8%	1/12	100%	12/12
100%	12/12	0%	0/12	0%	0/12	100%	12/12
0%	0/11	100%	12/12	91%	10/11	0%	0/11
100%	12/12	100%	12/12	0%	0/12	92%	11/12
100%	12/12	92%	11/12	67%	8/12	91%	10/11
100%	12/12	8%	1/12	17%	2/12	92%	11/12
92%	11/12	58%	7/12	8%	1/12	100%	12/12
100%	12/12	75%	9/12	17%	2/12	100%	12/12
100%	12/12	50%	6/12	42%	5/12	100%	12/12
100%	11/11	75%	9/12	83%	10/12	83%	10/12

Strain	MG / Ent #	% Dead	# D/T	% Dead	# D/T
MN1410R2F5-121	UT0RR 11	100%	11/11	92%	11/12
MN1410R2F5-83	UT0RR 12	0%	0/12	0%	0/12
ND13-17680	UT0RR 13	0%	0/12	0%	0/8
ND13-18960	UT0RR 14	0%	0/12	0%	0/10
ND13-20504	UT0RR 15	75%	9/12	82%	9/11
ND13-20529	UT0RR 16	0%	0/11	8%	1/12
ND13-21879	UT0RR 17	0%	0/12	0%	0/12
ND13-22401	UT0RR 18	91%	10/11	100%	12/12
ND13-22802	UT0RR 19	0%	0/11	0%	0/10
ND13-22866	UT0RR 20	0%	0/12	73%	8/11
AG1733 (I)	UTIRR 1	0%	0/11	0%	0/11
AG1234 (E)	UTIRR 2	0%	0/12	0%	0/12
AG2031	UTIRR 3	0%	0/12	0%	0/10
U07-135601R	UTIRR 4	0%	0/11	0%	0/10
M09-876026	UTIRR 5	100%	12/12	100%	12/12
M09-877004	UTIRR 6	0%	0/12	25%	3/12
M09-956047	UTIRR 7	0%	0/11	33%	4/12
M09-956063	UTIRR 8	17%	2/12	91%	10/11
M09-957075	UTIRR 9	83%	10/12	92%	11/12
U06-814223R (II)	UTIIIRR 1	0%	0/10	0%	0/12
AG2031 (E)	UTIIIRR 2	0%	0/12	0%	0/12
AG2535	UTIIIRR 3	0%	0/11	0%	0/12
U12-909109R	UTIIIRR 4	0%	0/11	0%	0/9
LD12-15129 R1a	UTIIIRR 5	0%	0/12	0/12	0/12
LD12-15246 R2a	UTIIIRR 6	58%	7/12	25%	3/12
LD12-15808R1a	UTIIIRR 7	100%	11/11	100%	12/12
LD12-15811R1a	UTIIIRR 8	0%	0/11	0%	0/12
LD12-15840R1a	UTIIIRR 9	67%	8/12	45%	5/11
LD13-13228R1a	UTIIIRR 10	0%	0/12	0%	0/11
LD13-13478R1a	UTIIIRR 11	100%	12/12	100%	12/12
LD13-14071R2	UTIIIRR 12	0%	0/12	0%	0/12
LD13-14107R2	UTIIIRR 13	0%	0/12	0%	0/12
U03-827101 (III) (SCN)	UTIIIRR 1	9%	1/11	0%	0/10
AG3334	UTIIIRR 2	0%	0/12	0%	0/11
AG3832	UTIIIRR 3	0%	0/12	0%	0/12
U12-909109R	UTIIIRR 4	0%	0/11	30%	3/10
LD11-14102R	UTIIIRR 5	50%	5/10	83%	10/12
LD12-15156 R1a	UTIIIRR 6	0%	0/12	0%	0/12
LD12-15609 R2	UTIIIRR 7	100%	12/12	100%	12/12
LD12-15753 R2	UTIIIRR 8	100%	12/12	91%	10/11
LD13-13334R1a	UTIIIRR 9	0%	0/12	0%	0/12
LD13-14327R2	UTIIIRR 10	100%	12/12	100%	12/12
LD13-14525R2	UTIIIRR 11	100%	12/12	100%	11/11
SA12-1756RR	UTIIIRR 12	0%	0/12	100%	12/12
SA13-4268RR	UTIIIRR 13	50%	6/12	42%	5/12
SA13-4304RR	UTIIIRR 14	91%	10/11	100%	12/12
SA13-4342RR	UTIIIRR 15	100%	12/12	100%	12/12
SA13-4420RR	UTIIIRR 16	100%	12/12	100%	11/11
SA13-4434RR	UTIIIRR 17	100%	12/12	100%	12/12
AG4033 (IV)	UTIVRR 1	0%	0/11	0%	0/12
AG3832	UTIVRR 2	0%	0/12	0%	0/12
AG4232	UTIVRR 3	0%	0/11	100%	12/12
SA11-9478RR	UTIVRR 4	0%	0/12	100%	12/12
LD11-13948R	UTIVRR 5	100%	11/11	92%	11/12
LD13-14460R1	UTIVRR 6	92%	11/12	100%	12/12

% Dead	# D/T	% Dead	# D/T	% Dead	# D/T	% Dead	# D/T
100%	12/12	100%	12/12	91%	10/11	100%	12/12
100%	12/12	0%	0/11	0%	0/12	91%	10/11
14%	1/7	0%	0/12	0%	0/12	0%	0/11
45%	5/11	0%	0/12	0%	0/10	0%	0/9
58%	7/12	27%	3/11	25%	3/12	36%	4/11
36%	4/11	20%	2/10	0%	0/10	0%	0/12
0%	0/12	100%	12/12	42%	5/12	0%	0/12
83%	10/12	83%	10/12	100%	11/11	33%	4/12
45%	5/11	0%	0/12	0%	0/11	25%	3/12
100%	12/12	0%	0/11	10%	1/10	55%	6/11
100%	12/12	0%	0/12	0%	0/12	75%	9/12
92%	11/12	0%	0/12	0%	0/11	50%	5/10
92%	11/12	0%	0/142	0%	0/12	58%	7/12
91%	10/11	0%	0/9	0%	0/10	33%	3/9
100%	12/12	83%	10/12	100%	12/12	73%	8/11
100%	12/12	0%	0/12	8%	1/12	50%	6/12
92%	11/12	0%	0/12	0%	0/12	67%	8/12
100%	12/12	33%	4/12	0%	0/10	75%	9/12
100%	12/12	92%	11/12	83%	10/12	42%	5/12
89%	8/9	0%	0/8	0%	0/12	33%	3/9
91%	10/11	0%	0/12	0%	0/12	20%	2/10
100%	12/12	17%	2/12	0%	0/12	92%	11/12
100%	12/12	30%	3/10	9%	1/11	45%	5/11
100%	12/12	0%	0/12	0%	0/10	82%	9/11
83%	10/12	17%	2/12	33%	4/12	33%	4/12
100%	12/12	83%	10/12	100%	12/12	92%	11/12
100%	12/12	0%	0/11	0%	0/11	45%	5/11
100%	9/9	50%	6/12	50%	6/12	58%	7/12
91%	10/11	0%	0/12	0%	0/12	83%	10/12
100%	12/12	100%	12/12	100%	12/12	100%	12/12
100%	12/12	33%	4/12	0%	0/11	42%	5/12
100%	12/12	0%	0/11	0%	0/12	50%	6/12
100%	12/12	55%	6/11	0%	0/12	90%	9/10
100%	12/12	17%	2/12	0%	0/12	83%	10/12
100%	12/12	17%	2/12	0%	0/12	67%	8/12
91%	10/11	0%	0/11	9%	1/11	56%	5/9
100%	12/12	45%	5/11	33%	4/12	58%	7/12
83%	10/12	27%	3/11	0%	0/11	100%	11/11
100%	12/12	100%	12/12	100%	12/12	75%	9/12
92%	11/12	92%	11/12	90%	9/10	64%	7/11
100%	12/12	0%	0/10	0%	0/11	55%	6/11
100%	11/11	100%	11/11	100%	10/10	80%	8/10
100%	11/11	100%	12/12	100%	9/9	90%	9/10
83%	10/12	58%	7/12	9%	1/11	67%	8/12
100%	11/11	33%	4/12	8%	1/12	80%	8/10
100%	12/12	100%	12/12	100%	12/12	89%	8/9
100%	12/12	90%	9/10	100%	12/12	75%	9/12
100%	12/12	92%	11/12	100%	12/12	73%	8/11
100%	12/12	100%	12/12	100%	12/12	92%	11/12
100%	12/12	0%	0/11	0%	0/12	92%	11/12
100%	12/12	0%	0/12	0%	0/12	36%	4/11
100%	12/12	83%	10/12	0%	0/12	18%	2/11
91%	10/11	100%	10/10	0%	0/12	36%	4/11
100%	10/10	100%	12/12	100%	12/12	82%	9/11
100%	11/11	100%	12/12	100%	12/12	90%	9/10

Identification of Parent Strains, 2016

Strain	Parentage
4J105-3-4	
06JR205000	
06NB204846	
236FHP	
289.TC	
435.TCS	From Schillinger Seed Co.
4J105-3-4	
5M20-2-5-2	
A05-112034	
A08-151024	
AR06-264007	Loda x Syngenta S10-F2
AR06-265055	
AR07-176037	IAR2001BSR x Soygenetics 96-2205
AR07-176075	Golden Harvest 24040 x Golden Harvest H-2285
AR08-286003	
AR2	
Ashtabula	ND95-952 x Council
AX20474-13-14	
Cavalier	Sargent x ND96-1006
CL05-32415	
CL06-121119	
CL0J173-6-8	Kottman x Dwight
Colby	
Dairyland 75467	
Dairyland 75213-72	98820-33 x A3237
Dairyland 75334	
Dairyland 75517	
DH 420	
E00003	Agripro AP1995 x Pioneer P9281
E05226-T	
E06936	
E06936CNYLD	
E07048	
E07051	
E07080	
E09014	
E09902	
E09903	
E10906	
E10919	
E10928	
E11358	
E11955	
F3:5 03JR309156	
Golden Harvest H-2285	
Hamlin	
Harmony	(Maple Presto x Williams) x Weber
HD 369	
HD Goshen	
Heinong 50	
IA 3023	Dairyland DSR-365 x Pioneer P9381
IA 3048	Dairyland 99540 x IA2068
IA1022	Dairyland 98822 x A00-711024
IA2064	

Identification of Parent Strains, 2016

Strain	Parentage
IA2067	
IA2073	
IA2102	A04-545045 x AgriPro 98180-A01-0613
IAR1901 BSR	
IAR2101 SCN	
JTN-5203	
K07-1544	
K07-1633	
K08-6247	
LaMoure	LaMoure SD92 -1323 x M90-370
LD00-2817	Ina x Dwight
LD00-3309	Maverick x Dwight
LD01-7323	LN95-5454 x Dwight
LD02-4485	M90-184111 x IA3010
LD02-5124W	A97-973002 x Loda
LD04-11056	U96-2208 x Syngenta S38-T8
LD04-13265	Syngenta S32-Z3 x U9-205355
LD04-5907	
LD05-1540	Syngenta S25-J5 x SS98-3403
LD05-30586a	LD02-4485(3) x ((SD01-3603R (2) x (Dowling x Loda))
LD05-3171	
LD05-3230	Syngenta S25-J5 x LD00-3296
LD06-14187R	LD00-9276 x LD00-3309
LD06-2009	U97-201128 x U98-307162
LD06-7596	Unknown IA3023 x LD00- 3309
LD06-7620	IA3023 x LD00-3309
LD06-7984	Macon x LD01-5907
LD07-3395bf	Maverick x Dwight
LD07-3419	Syngenta WW115926 x LD00-2817
LD07-5065	Dwight x SCN soja BC3F1
LD08-12430a	
LD08-12446a	
LD08-12459a	LD05-16413 x [Dwight x (Ina x PI 200538)]
LD08-2355	PI 561.319A x PI 574.477
LD09-15159	
LD09-17170 R2	LD00-3309 x Monsanto RR2
LD09-17254 R2	LD00-3309 x Monsanto RR2
LG00-3372	PI 561.319A x PI 574.477
LG00-6182	PI561319A x PI574477
LG02-4198	LG94-1133 x LG93-7564
LG03-2087	Sherman x LG84-1096
LG03-6296	PI592934 x LG94-1133
LG04-4468	LG97-8856 x IA 3010
LG04-4866	
LG04-5187	LG97-9384 x LG97-9301
LG04-5190	
LG04-5196	LG97-9384 x LG97-9301
LG04-5372	Rend x LG97-9301
LG04-5377	
LG04-6000	HS93-4118 x LG97-9912
LG04-6005	HS93-4118 x LG97-9912
LG05-2359	
LG05-4092	C1979 x LG98-1445
LG05-4229	LG94-1128 x LG98-5629

Identification of Parent Strains, 2016

Strain	Parentage
LG05-4292	
LG05-4354	
LG05-4550	LG97-9701 x C1979
LG06-2354	LG97-9301 x S25-J5
LG06-5920	LG00-3372 x LD00-3309
LG07-2249	
LG07-2309	IA3023 x LG01-7728
LG07-2640	
LG07-6911	
LG07-6944	
LG07-9721	
LS07-3125	
M00-110002	U96-2408 x MN0302
M00-30755	M92-270029 x M93-313185
M01-213045	
M01-315029	A99-216031 x M95-123023
M02-333013	M94-162105 x MN0304
M02-399012	MN0302 x PI437610A
M02-403070	Parker x PI227565
M02-495076	LG98-1605 x MN0302
M03-149087	
M03-163106	MN1009 x MN0304
M03-165068	
M03-198033	PI437167C x MN0302
M03-276016	MN0071 x IA2062
M03-281063	
M03-381022	MN0902CN x LG98-1445
M04-239074	
M04-261038	
M04-267028	Lambert x PI291290
M04-380030	
M04-419020	
M05-175-1039	
M05-251-1002	
M90-18411	L85P-558 x M86-1973
M92-270029	M87-727 x M87-346
M93-313185	Agassiz x M90-1437
M99-274166	PI548379(OTTAWA x MANDARIN) x S19-90
MN0071	Harmony x OT92-8
MN0091	
MN0095	M92-270029 x M93-313185
MN0107	MN0302 x Daksoy
MN0606CN	MN0901 x MN0902CN
MN0901	M83-766 x Leslie
MN0902CN	Jack x Alpha
MN0908CN	
MN1013	MN0302 x PI495831
MN1410	
MN1410*3	
MN1410BC2R2F2-3	
MN1410BC2R2F2-4	
MN1410BC2R2F3	
MN1606SP	M90-764 x M90-2144
MN1701CN	M90-184111 x MN0902CN (M92-1571)

Identification of Parent Strains, 2016

Strain	Parentage
MonsantoRR2	
MS05-112002	M83-90 x Archer
MS05-119006	M90-350 x MN1302
MS05-143003	ORC-0302 x MN1401
MTC00-113-61-7	NTCPR94-5157 x MN0302
NCC05-1261	
ND Henson	ND03-5672 x Hamlin
ND02-971	Celeste x Crawford
ND03-5441	Barnes x MN9002CN
ND03-5672	Barnes x SD96-33
ND03-7267	Walsh x MN9002CN
ND03-7566	Barnes x MN9002CN
ND04-10249	
ND04-11730	M94-161045 x (Barnes x IA1009)
ND04-12689	Sargent x MN0902CN
ND04-17644	MN302 x [ND95- 1564 x MN201]
ND05-17649	MN302 x [ND95- 1564 x MN201]
ND05-17835	
ND05-17855	
ND06-25513	
ND07-18569	RG607RR (BC4) x Dowling
ND07-4050	
ND07-4069	
ND07-4635	
ND07-4635	
ND08-7047	
ND1005T	
NE1900	PI614833 MSBP1
OAC 01-26	OAC 96-06 x M91-821
OAC 05-30	
OAC Champion	
OAC Lakeview	
OAC Marvel	
OAC Prodigy	
OAC Wallace	
OAC05-17	Rcat 99-01 x OAC 00-01
OAC06-20	
OAC06-32	
OAC07-26C	ND95-1564 x OAC Champion
OHS204	IA3023 x HS99-4045
OHS305	
OT92-8	Baron x Maple Donovan
OX 802	
PI 416805	
PI 567374	
PI384469A	
PI438489B	
PI561389B	
PI578425	
Pioneer 91M10	
ProSoy	
R2 From Monsanto R2BC2	
RG200RR	Traill (4) x Resnick (RR1)
RG405RR	Barnes (4) x Resnick (RR1)

Identification of Parent Strains, 2016

Strain	Parentage
RG607RR	SD1091RR x Barnes
RG7008RR	RG200RR x ND95-6634
S05-11482	S99-2281 x S00-9985-03
S06-10572RR	S03-390RR x S02-6816
S07-15722RR	LG00-3372 X S03-058RR
S07-5117	HC99-2533 x S02-6143
S08-115	S06-6836 X RR2-6851
S10-1999RR2	
S10-3190RR2	
S18-R6	
S23-T5	
SA11-9478RR	S06-10572RR x S08-115
SC 2307	
SC 2407	
SC 4009	
SC Starfield (SCN)	
Sheyenne	Pioneer 9071 x A96-492041
Starfield	
SV 90-03MFA	
Syngenta 03JR313108	
Syngenta 03JR321088	
Syngenta 06NB199520	
Thompson SeedsT0499	
U00-409006	NE3001 x A94-6764017
U01-390489	IA1008 x NE3001
U02-242055	NE1900 x P93B82
U03-100612	U99-009019 x P92B12
U03-260216	U99-009019 x UP1Fe(S1)C7-150
U03-300134	NE3202 x NE2802
U03-827101	
U06-814223R	
U07-135377R	NEX2803Y3R x U03-823141R
U07-135601R	U03-825124R x NEX2403K2R
U07-402918	U01-390489 x (U00-429037 x Essex)
U09-105007	
U09-126009	
U09-129007	
U09-209069	U01-190311 x U02-242055
U09-215057	U01-390489 x U03-200317
U09-233044	UP2YC4S3
U09-234083	UP2YC4S3
U09-311114	U02-242055 x U03-200317
U09-312115	U02-242055 x U03-300134
U09-317120	
U09-323109	UP2YC4S3
U10-425065	(U01-390489 x LD01-5907) x U02-341563
U11-917032	LD02-4485 x U03-100612
U11-920017	HS5-3417 x LD02- 4485
U11-935093	
U12-909109R	U07-135601R x U07-135377R
UX2759-1 (F1)	
Venus	
Wallace	
WN0800105	

Identification of Parent Strains, 2016

Strain	Parentage
XP2410	
XY2510	

Uniform and Preliminary Test Locations Monthly Rainfall Data, 2016

Location		Monthly Rainfall Measured in Inches per Month					
		May	June	July	August	September	October
IA	Boone	4.7	5.4	4.9	4.9	3.1	2.7
	Boone Co.	4.5	0.7	8.8	7.2	7.5	0.9
	Crawfordsville	4.6	4.7	4.3	4.2	3.6	2.9
	Kanawha	4.0	5.4	4.5	3.9	3.0	2.1
IL	Arthur	4.2	4.2	5.5	3.8	3.9	4.0
	Carbondale	5.4	4.5	3.7	3.3	3.1	3.8
	Ivesdale	4.2	4.2	4.8	3.8	3.6	1.6
	Monmouth	4.8	4.4	4.2	4.1	3.5	3.1
	Neoga	4.4	4.1	4.0	3.0	3.1	3.7
	Urbana	4.9	4.3	4.5	3.9	3.1	3.3
IN	Wanatah	3.7	4.3	5.6	4.1	2.9	5.0
	West Lafayette	2.3	4.3	5.2	5.7	3.5	1.1
KS	Manhattan	5.1	5.7	4.4	4.1	3.4	3.4
	Onaga	5.5	6.0	3.4	3.1	3.0	3.1
	Ottawa	5.4	5.6	4.1	4.0	4.3	3.3
MI	Britton	3.8	3.9	3.4	3.4	3.9	2.8
	East Lansing	2.7	1.2	3.0	3.4	3.4	3.9
	Saginaw	2.8	3.9	2.4	3.2	4.1	2.8
MN	Crookston	2.9	3.8	3.0	2.9	2.4	2.1
	Lamberton	3.3	4.2	3.7	3.7	3.3	2.8
	Moorehead	2.1	2.5	5.4	2.7	2.7	2.0
	Morris	2.0	4.0	3.9	3.3	2.9	2.5
	Rosemount	4.1	4.8	5.2	4.7	3.6	2.9
	Shelly	2.7	3.6	3.3	2.5	2.2	2.0
	Waseca	3.7	4.8	4.4	4.8	3.7	2.7
MO	Albany	5.0	5.1	5.3	4.1	3.6	2.9
	Novelty	4.9	4.3	4.2	3.6	3.8	3.2
	Portageville (Clay)	4.8	4.0	3.6	2.3	3.2	4.3
	Portageville (Loam)	4.8	4.0	3.6	2.3	3.2	4.3
ND	Casselton	3.1	1.5	4.2	1.5	4.0	2.4
	Northwood	2.2	3.6	3.5	2.9	2.0	1.6
NE	Clay Center	5.4	4.2	3.9	3.5	2.5	1.8
	Cotesfield	3.7	4.4	2.9	2.9	2.5	1.9
	Lincoln	4.3	4.3	3.4	3.5	2.9	2.0
	Mead	5.0	4.6	3.7	4.3	3.2	2.6
	Worms	4.4	4.3	3.4	3.1	2.1	1.9
	Wymore	4.9	4.5	4.2	3.9	3.3	2.3
OH	Hoytville	3.5	3.7	3.8	3.6	2.6	2.4
	So. Charleston	3.7	4.3	4.0	3.4	2.8	2.6
	Wooster	4.5	4.5	4.3	3.9	3.4	3.1

Uniform and Preliminary Test Locations Monthly Rainfall Data, 2016

Location		Monthly Rainfall Measured in Inches per Month					
		May	June	July	August	September	October
ONT	Chatham	3.0	3.3	3.4	3.4	3.7	2.7
	Elora	3.0	3.1	3.6	3.7	3.5	2.8
	Ottawa	3.0	3.3	3.4	3.5	3.3	2.9
	Ridgetown	3.4	3.6	3.3	3.7	4.9	3.8
	St. Pauls	3.0	3.3	3.4	3.5	3.3	2.9
	Woodstock	2.9	3.2	3.0	3.5	3.4	3.0
QUE	La Pocatiere	3.6	4.2	4.6	4.7	4.2	3.6
	Saint Hyacinthe	3.0	3.4	3.6	4.1	3.6	3.1
	St. Mathieu de Beloeil	3.1	3.8	3.8	3.8	3.5	3.1
TN	Jackson	4.9	4.9	4.4	3.1	3.5	4.0

<http://theweathercollector.com/>

<http://legacyweb.theweathernetwork.com/>

<https://weather.com/>

Uniform and Preliminary Test Locations, 2016

Location		Tests Conducted By:	Uniform Tests						Preliminary Tests					Uniform Tests RR					
			00	0	I	II	III	IV	0	I	II	III	IV	00	0	I	II	III	IV
IA	Boone	S. Cianzio				X					X								
	Boone Co.	A. Singh			X	X	X			X	X	X							
	Crawfordsville	S. Cianzio					X					X							
	Kanawha	S. Cianzio			X					X									
IL	Arthur	B. Diers					<u>X</u>											<u>X</u>	
	Carbondale	A. Korando																	
	Ivesdale	Nelson						X											
	Monmouth	B. Diers				<u>X</u>											<u>X</u>		
	Neoga	B. Diers						<u>X</u>											<u>X</u>
	Urbana	B. Diers				<u>X</u>	<u>X</u>	<u>X</u>			<u>X</u>	<u>X</u>	<u>X</u>				<u>X</u>	<u>X</u>	<u>X</u>
IN	Wanatah	G. L. Nowling			X		X									X	X	X	
	West Lafayette	G. L. Nowling			<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>		<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>			<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>
KS	Manhattan	W. Schapaugh Jr.					X	X				X	X						
	Onega	W. Schapaugh Jr.						X					X						
	Ottawa	W. Schapaugh Jr.					X	X				X	X						
MI	Britton	D. Wang				X											X		
	East Lansing	D. Wang			X	X				X	X					X	X		
	Saginaw Co.	D. Wang			X											X			
MN	Crookston	A. Lorenz	<u>X</u>											<u>X</u>					
	Lamberton	A. Lorenz			<u>X</u>	<u>X</u>				<u>X</u>	<u>X</u>					<u>X</u>	<u>X</u>		
	Moorehead	A. Lorenz	<u>X</u>											<u>X</u>					
	Morris	A. Lorenz		<u>X</u>					<u>X</u>						<u>X</u>				
	Rosemount	A. Lorenz		<u>X</u>					<u>X</u>						<u>X</u>				
	Shelly	A. Lorenz	<u>X</u>																
	Waseca	A. Lorenz			<u>X</u>	<u>X</u>				<u>X</u>	<u>X</u>					<u>X</u>	<u>X</u>		
MO	Albany	A. Scaboo					X	X										X	X
	Novelty	A. Scaboo					X	X				X	X					X	
	Portageville (Clay)	G. Shannon					X	X					X					X	X
	Portageville (Loam)	G. Shannon					X	X										X	X
ND	Casselton	T. Helms	<u>X</u>	<u>X</u>					<u>X</u>						<u>X</u>				
	Northwood	T. Helms	X											X					
NE	Clay Center	G. Graef					<u>X</u>					<u>X</u>						<u>X</u>	
	Cotesfield	G. Graef			X	X				X	X					<u>X</u>	<u>X</u>		
	Lincoln	G. Graef					X					X							
	Mead	G. Graef			<u>X</u>	<u>X</u>				<u>X</u>	<u>X</u>					<u>X</u>	<u>X</u>		
	Worms	G. Graef			X	X				X	X					X	X		
	Wymore	G. Graef					<u>X</u>					<u>X</u>						<u>X</u>	
OH	Hoytville	L. McHale/McIntyre				<u>X</u>	<u>X</u>				<u>X</u>	<u>X</u>							
	So. Charleston	L. McHale/Feller					X	<u>X</u>				X							
	Wooster	L. McHale/McIntyre				X					X								

Uniform and Preliminary Test Locations, 2016

Location		Tests Conducted By:	Uniform Tests						Preliminary Tests						Uniform Tests RR					
			00	0	I	II	III	IV	0	I	II	III	IV	00	0	I	II	III	IV	
ONT	Chatham	M. Eskandari				X					X									
	Elora	I. Rajcan	X						X											
	Ottawa	E. Cober	X	X																
	Ridgetown	M. Eskandari			X				X											
	St. Pauls	I. Rajcan			X				X											
	Woodstock	I. Rajcan		X	X				X											
QUE	La Pocatiere	J. Auclair	X											X						
	Saint Hyacinthe	J. Auclair			X				X						X	X				
	St. Mathieu de Beloeil	L. O'Donoughue	X	X																
TN	Jackson	P. Arelli						X					X							
	X Locations With Agronomic Data																			
			9	6	15	15	17	13	5	12	13	12	8	4	4	10	11	10	6	
		X Locations With Seed Composition Data	8	6	8	8	6	5	5	7	7	5	3	3	4	6	7	5	3	

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UNIFORM TEST 00, 2016

Ent. Strain	Parentage	Seed Source	Previous Testing	Gen. Comp.	Unique Traits
1 MN0071 (00)	Harmony x OT92-8	Lorenz	16	F5	Rps1
2 MN0095 (0)	M92-270029 x M93-313185	Lorenz	8	F5	Rps1
3 ND Henson	ND03-5672 x Hamlin	Helms	3	F4	
4 M06-338016	ND02-971 x MN0071	Lorenz	4	F5	Oil
5 M07-260009	NE1900 x MN0107	Lorenz	3	F5	
6 M08-271313	M03-276016 x IA2064	Lorenz	2	F5	
7 M10-207102	M03-165068 x M04-419020	Lorenz		F5	
8 ND12-13257	ND04-11730 x Ashtabula	Helms	1	F4	
9 ND12-15623	M00-30755 x ND05-17649	Helms	1	F4	
10 ND12-15628	M00-30755 x ND05-17649	Helms	1	F4	
11 ND12-15647	M00-30755 x ND05-17649	Helms	1	F4	
12 ND12-17224	Sheyenne x ND04-17644	Helms	1	F4	
13 ND13-5619	M01-213045 x [Ashtabula x Sheyenne]	Helms		F4	
14 ND13-7727	ND03-7566 x ND06-25513	Helms		F4	PI 88788, Rps6
15 ND13-7968	ND06-25513 x ND03-5441	Helms		F4	PI 88788, Rps6
16 OAC 14-01	OAC Wallace x Heinong 50	Rajcan		F5	Diversity (50% Chinese)
17 OAC 14-05	OAC Lakeview x Venus	Rajcan		F5	

UNIFORM TEST 00, 2016

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	IDC			Shattering	Green Stem
		Crooks-ton	Score Moore-head	Shelly	Score Man-hattan	Score St Mathieu de Beloeil
MN0071 (00)	PTBDYBrI	4.8	4.8	4.8	4.0	1.0
MN0095 (0)	WGBIYDibI	2.8	2.8	2.8	3.0	3.7
ND Henson	PTBIYBI	4.8	4.8	4.8	5.0	2.0
M06-338016	PGB+TSYY+BfI	4.8	4.8	4.8	3.0	2.3
M07-260009	P+WGTDYGI	4.0	4.0	4.0	4.0	2.0
M08-271313	PTBSYBI	4.3	4.3	4.3	5.0	2.3
M10-207102	PTTSYG+BfI	3.5	3.5	3.5	5.0	2.3
ND12-13257	PGTIYYI	2.0	2.0	2.0	1.0	1.3
ND12-15623	PGTIYGI	2.0	2.0	2.0	5.0	1.0
ND12-15628	PGTSYG+YI	2.8	2.8	2.8	4.0	1.0
ND12-15647	PGTDYBfI	3.5	3.5	3.5	5.0	1.3
ND12-17224	PGTSYYI	3.5	3.5	3.5	5.0	2.3
ND13-5619	WGTSYDbfI	4.8	4.8	4.8	5.0	5.0
ND13-7727	WGTDYYI	4.8	4.8	4.8	5.0	4.0
ND13-7968	PGTDYBfI	4.3	4.3	4.3	4.0	2.7
OAC 14-01	PTBTYGI	5.0	5.0	5.0	5.0	4.7
OAC 14-05	PTBSYYI	4.3	4.3	4.3	5.0	1.0

UNIFORM TEST 00, 2016

REGIONAL SUMMARY

No. of Tests Strain	Yield 9 bu/a	Rank 9 No.	Maturity 9 Date	Lodging 9 Score	Plant Height 8 In	Seed Size 8 g/100	Seed Quality 7 Score	Composition	
								Protein 8 %	Oil 8 %
MN0071 (00)	43.4	17	9/8	1.4	29	15.9	1.6	36.1	20.5
MN0095 (0)	65.5	1	15.8	1.6	35	16.3	1.5	37.4	19.4
ND Henson	56.7	10	4.6	1.4	29	15.9	1.6	36.8	19.8
M06-338016	60.6	3	16.7	1.8	36	15.8	2.2	36.3	19.2
M07-260009	59.4	4	8.3	1.9	36	16.2	1.5	36.8	19.3
M08-271313	62.2	2	12.4	1.3	33	16.9	1.7	35.7	20.0
M10-207102	55.9	13	6.2	1.1	29	17.1	1.7	40.2	17.4
ND12-13257	55.2	14	5.2	1.2	30	15.2	1.6	36.0	20.7
ND12-15623	53.8	15	0.1	1.4	33	13.5	1.5	36.8	19.2
ND12-15628	56.4	12	1.8	1.4	33	13.3	1.6	36.3	19.4
ND12-15647	59.4	4	5.1	1.1	32	13.4	1.6	36.5	19.6
ND12-17224	59.0	7	5.2	1.1	33	14.2	1.5	36.4	19.0
ND13-5619	56.5	11	6.9	1.3	36	14.7	1.9	35.7	19.4
ND13-7727	58.5	8	7.3	1.3	35	15.0	1.6	36.5	19.1
ND13-7968	58.5	8	6.4	2.3	35	14.4	1.7	35.6	20.2
OAC 14-01	52.3	16	6.0	1.2	30	16.3	1.5	36.2	19.4
OAC 14-05	59.2	6	9.9	1.9	35	16.2	1.9	37.3	19.0
Mean	56.7			1.5	32.6	15.2	1.7		
C.V. (%)	11.5			37.6	8.0	6.1	19.0		
L.S.D. (5%)	3.5			0.3	1.5	0.6	0.2		

113.9 Days After Planting

UNIFORM TEST 00, 2016

2015-2016 2-Year Mean

No. of Tests Strain	Yield 18 bu/a	Rank 18 No.	Maturity 18 Date	Lodging 18 Score	Plant Height 16 In.	Seed Size 16 g/100	Seed Quality 13 Score	Composition	
								Protein 13 %	Oil 13 %
MN0071 (00)	44.4	11	9/12	1.2	27	15.3	1.7	36.4	20.3
MN0095 (0)	58.1	1	10.6	1.3	30	14.2	1.5	37.5	19.2
ND Henson	55.2	7	4.8	1.2	27	15.4	1.6	37.6	19.6
M06-338016	57.1	3	12.8	1.5	32	14.9	2.0	36.5	19.5
M07-260009	56.6	5	7.8	1.5	32	15.3	1.5	37.1	19.3
M08-271313	56.8	4	9.4	1.1	28	16.2	1.7	35.7	20.4
ND12-13257	52.9	9	6.0	1.1	27	14.7	1.7	36.4	20.4
ND12-15623	52.9	9	0.7	1.2	30	13.0	1.6	37.1	19.2
ND12-15628	53.4	8	1.9	1.2	30	12.8	1.7	36.7	19.3
ND12-15647	57.2	2	5.2	1.1	29	12.9	1.7	36.7	19.6
ND12-17224	56.1	6	5.1	1.0	30	13.2	1.6	36.6	19.3

113.4 Days After Planting

2014-2016 3-Year Mean

No. of Tests Strain	26	26	27	24	24	24	20	20	20
MN0071 (00)	45.1	6	9/20	1.1	26	15.5	1.6	35.5	19.9
MN0095 (0)	56.5	2	8.9	1.2	28	13.9	1.6	36.4	19.0
ND Henson	54.5	5	4.5	1.2	25	15.7	1.6	36.4	19.4
M06-338016	56.6	1	11.7	1.5	31	15.2	2.0	35.4	19.2
M07-260009	55.9	3	7.7	1.5	31	15.3	1.6	36.3	18.9
M08-271313	55.9	3	8.2	1.1	27	16.5	1.9	34.8	20.1

111.8 Days After Planting

UNIFORM TEST 00, 2016

YIELD (bu/a)

Strain	Mean 9 Tests	Crook- ston MN	Moor- head MN	Shelly MN	Cassel- ton ND	North- wood ND	Elora ONT	Ottawa ONT	La Pocatiere QUE	St Mathieu de Beloeil QUE
MN0071 (00)	43.4	55.2	36.5	43.9	27.2	43.5	41.5	31.1	57.5	54.6
MN0095 (0)	65.5	67.2	42.7	58.0	63.3	70.1	61.5	52.2	74.8	99.8
ND Henson	56.7	63.1	52.7	54.3	37.9	59.3	49.5	33.8	75.8	83.8
M06-338016	60.6	62.5	62.4	53.3	52.1	69.2	55.0	43.5	68.4	79.1
M07-260009	59.4	67.1	53.5	52.8	52.0	60.5	54.7	41.0	72.8	79.9
M08-271313	62.2	71.8	70.9	64.2	48.8	65.7	53.0	42.2	72.0	71.1
M10-207102	55.9	64.1	48.7	55.5	45.7	59.3	48.9	38.1	69.0	73.7
ND12-13257	55.2	68.0	43.1	50.4	36.5	63.5	55.6	36.5	73.3	70.1
ND12-15623	53.8	61.9	48.1	45.3	41.3	61.8	50.7	34.3	72.6	68.3
ND12-15628	56.4	64.5	51.9	47.6	51.0	63.5	54.3	32.7	73.3	68.4
ND12-15647	59.4	67.7	53.1	60.8	48.5	65.0	54.9	39.7	71.0	73.8
ND12-17224	59.0	67.6	59.5	58.0	47.2	62.3	53.4	36.4	73.4	73.2
ND13-5619	56.5	64.6	53.9	48.6	49.9	60.7	49.2	36.6	69.8	75.2
ND13-7727	58.5	65.4	54.8	59.5	50.6	63.3	52.1	36.1	74.6	70.3
ND13-7968	58.5	64.2	44.6	50.3	54.3	64.9	52.2	37.0	78.6	80.8
OAC 14-01	52.3	61.9	31.6	53.9	33.8	64.4	55.3	37.2	68.0	64.8
OAC 14-05	59.2	61.7	48.1	54.9	56.3	63.7	54.2	44.0	74.0	75.4
Location Mean		64.6	50.4	53.6	46.8	62.4	52.7	38.4	71.7	74.3
C.V. (%)		6.8	14.6	10.5	14.0	7.4	8.0	6.0	4.0	6.5
L.S.D. (5%)		7.3	12.3	9.3	10.4	7.4	7.0	3.2	4.8	8.0
Row Sp. (In.)		12	10	10	30	30	14	15.75	7	7
Rows/Plot		8	8	8	4	4	4	4	8	5
Reps		3	3	3	3	3	3	3	3	3

UNIFORM TEST 00, 2016

YIELD RANK

Strain	Yield Rank	Crook-ston MN	Moor-head MN	Shelly MN	Cassel-ton ND	North-wood ND	Elora ONT	Ottawa ONT	La Pocatiere QUE	St Mathieu de Beloeil QUE
MN0071 (00)	17	17	16	17	17	17	17	17	17	17
MN0095 (0)	1	5	15	4	1	1	1	1	3	1
ND Henson	10	12	8	8	14	15	14	15	2	2
M06-338016	3	13	2	10	4	2	4	3	15	5
M07-260009	4	6	6	11	5	14	6	5	9	4
M08-271313	2	1	1	1	9	3	10	4	11	11
M10-207102	13	11	10	6	12	15	16	7	14	9
ND12-13257	14	2	14	12	15	8	2	11	7	13
ND12-15623	15	15	12	16	13	12	13	14	10	15
ND12-15628	12	9	9	15	6	8	7	16	7	14
ND12-15647	4	3	7	2	10	4	5	6	12	8
ND12-17224	7	4	3	5	11	11	9	12	6	10
ND13-5619	11	8	5	14	8	13	15	10	13	7
ND13-7727	8	7	4	3	7	10	12	13	4	12
ND13-7968	8	10	13	13	3	5	11	9	1	3
OAC 14-01	16	14	17	9	16	6	3	8	16	16
OAC 14-05	6	16	11	7	2	7	8	2	5	6

UNIFORM TEST 00, 2016

MATURITY (date)

Strain	Mean 9 Tests	Crook-ston MN	Moor-head MN	Shelly MN	Cassel-ton ND	North-wood ND	Elora ONT	Ottawa ONT	La Pocatiere QUE	St Mathieu de Beloeil QUE
MN0071 (00)	9/8	9/2	9/5	9/6	9/1	9/4	9/19	9/11	9/20	9/4
MN0095 (0)	16	9	13	6	27	32	17	22	-2	18
ND Henson	5	7	6	3	6	8	1	5	-3	8
M06-338016	17	21	18	12	11	22	16	18	20	13
M07-260009	8	12	13	8	10	13	3	4	4	7
M08-271313	12	19	14	12	11	18	14	9	7	8
M10-207102	6	10	7	7	9	8	1	3	3	8
ND12-13257	5	9	8	2	6	13	1	5	-3	5
ND12-15623	0	1	2	2	3	7	-2	-3	-10	1
ND12-15628	2	5	3	3	3	9	-0	3	-10	0
ND12-15647	5	10	7	4	7	11	-0	4	-2	5
ND12-17224	5	9	7	4	10	11	-2	5	-2	5
ND13-5619	7	11	11	5	8	13	1	5	1	7
ND13-7727	7	11	11	4	9	12	2	9	2	6
ND13-7968	6	11	11	6	8	10	3	2	2	5
OAC 14-01	6	10	9	3	7	14	1	6	-2	6
OAC 14-05	10	16	13	8	11	15	3	9	4	9
Date Planted	5/17	5/11	5/13	5/13	5/5	5/6	6/1	6/1	5/25	5/17
Days to Mature	113.9	114	115	116	119	121	110	102	118	110

UNIFORM TEST 00, 2016

LODGING (score)

Strain	Mean 9 Tests	Crook- ston MN	Moor- head MN	Shelly MN	Cassel- ton ND	North- wood ND	Elora ONT	Ottawa ONT	La Pocatiere QUE	St Mathieu de Beloeil QUE
MN0071 (00)	1.4	1.0	1.0	1.3	1.0	1.7	2.5	2.0	1.0	1.0
MN0095 (0)	1.6	1.7	1.0	1.7	1.0	2.3	4.0	1.7	1.0	0.0
ND Henson	1.4	1.0	1.0	2.0	1.0	1.0	1.7	2.0	1.0	1.7
M06-338016	1.8	2.3	1.3	2.3	1.0	2.7	2.5	2.0	1.0	1.3
M07-260009	1.9	2.0	1.3	2.0	1.0	2.7	3.7	2.0	1.3	1.0
M08-271313	1.3	1.3	1.0	1.3	1.0	1.3	2.0	1.3	1.3	1.0
M10-207102	1.1	1.0	1.0	1.0	1.0	1.5	1.2	1.3	1.0	1.0
ND12-13257	1.2	1.3	1.3	1.7	1.0	1.3	1.5	1.0	1.0	1.0
ND12-15623	1.4	1.0	1.3	2.3	1.0	1.3	1.8	2.0	1.0	1.0
ND12-15628	1.4	1.0	1.3	2.3	1.0	1.0	2.0	2.0	1.0	1.0
ND12-15647	1.1	1.0	1.0	1.0	1.0	1.0	1.3	1.7	1.0	1.0
ND12-17224	1.1	1.0	1.0	1.0	1.0	1.0	1.3	1.3	1.0	1.0
ND13-5619	1.3	1.7	1.0	1.0	1.0	1.0	2.2	2.0	1.0	1.0
ND13-7727	1.3	1.3	1.0	1.7	1.0	1.3	1.8	2.0	1.0	1.0
ND13-7968	2.3	1.7	2.0	2.7	1.0	3.0	3.8	2.0	2.0	2.3
OAC 14-01	1.2	1.0	1.0	1.3	1.0	1.3	1.3	2.0	1.0	1.0
OAC 14-05	1.9	1.7	1.0	2.3	1.0	1.7	3.8	2.0	2.0	1.3

UNIFORM TEST 00, 2016

PLANT HEIGHT (inches)

Strain	Mean 8 Tests	Crook- ston MN	Moor- head MN	Shelly MN	Cassel- ton ND	North- wood ND	Elora ONT	Ottawa ONT	La Pocatiere QUE	St Mathieu de Beloeil QUE
MN0071 (00)	29	28	27	32	22		38	32	28	26
MN0095 (0)	35	35	29	39	36		44	33	30	33
ND Henson	29	31	32	34	21		32	30	26	26
M06-338016	36	39	36	38	30		42	37	35	28
M07-260009	36	36	39	41	29		43	35	35	30
M08-271313	33	35	36	39	27		42	32	29	27
M10-207102	29	30	28	33	24		37	28	27	25
ND12-13257	30	34	34	34	22		36	27	29	27
ND12-15623	33	34	36	38	25		39	32	30	28
ND12-15628	33	35	35	39	28		40	31	30	27
ND12-15647	32	36	34	37	27		38	31	27	26
ND12-17224	33	37	35	38	27		38	30	30	29
ND13-5619	36	37	38	40	31		41	35	32	31
ND13-7727	35	37	38	38	30		41	34	31	29
ND13-7968	35	36	37	37	29		41	34	33	32
OAC 14-01	30	31	27	36	23		37	32	27	26
OAC 14-05	35	37	33	39	29		42	35	32	31

UNIFORM TEST 00, 2016

SEED SIZE (g/100)

Strain	Mean 8 Tests	Crook- ston MN	Moor- head MN	Shelly MN	Cassel- ton ND	North- wood ND	Elora ONT	Ottawa ONT	La Pocatiere QUE	St Mathieu de Beloeil QUE
MN0071 (00)	15.9	15.6	15.8	15.9	11.2		19.2	17.6	15.1	16.5
MN0095 (0)	16.3	15.1	14.1	13.8	12.3		21.2	21.9	12.2	20.0
ND Henson	15.9	16.5	16.3	16.3	11.1		18.5	17.5	13.3	17.8
M06-338016	15.8	15.7	15.7	15.0	11.1		18.7	18.8	14.4	16.9
M07-260009	16.2	16.2	17.2	16.8	10.8		18.7	18.2	14.2	17.4
M08-271313	16.9	16.6	16.4	15.8	12.6		20.5	19.4	16.4	17.3
M10-207102	17.1	16.8	16.5	16.9	10.2		20.1	20.4	16.8	19.1
ND12-13257	15.2	15.6	15.0	15.0	9.7		18.7	17.4	13.6	16.6
ND12-15623	13.5	13.9	13.7	13.8	7.8		16.3	15.4	11.7	15.1
ND12-15628	13.3	13.9	13.6	14.2	8.4		15.6	15.3	11.4	14.3
ND12-15647	13.4	13.8	13.4	14.3	9.1		15.4	14.7	12.0	14.4
ND12-17224	14.2	14.7	15.4	13.9	10.4		16.4	15.5	12.3	15.0
ND13-5619	14.7	14.6	15.5	15.0	9.4		18.8	16.3	12.1	15.5
ND13-7727	15.0	14.9	16.3	15.5	10.5		17.2	16.6	13.2	15.9
ND13-7968	14.4	14.1	15.1	14.7	7.9		18.2	16.0	13.3	15.8
OAC 14-01	16.3	14.6	16.8	16.1	11.4		19.7	19.0	16.0	16.6
OAC 14-05	16.2	15.1	15.9	15.2	11.0		20.4	19.6	15.4	17.0

UNIFORM TEST 00, 2016

SEED QUALITY (score)

Strain	Mean 7 Tests	Crook- ston MN	Moor- head MN	Shelly MN	Cassel- ton ND	North- wood ND	Elora ONT	Ottawa ONT	La Pocatiere QUE	St Mathieu de Beloeil QUE
MN0071 (00)	1.6	1.3	1.3	1.0	1.0		1.5	2.0	3.0	
MN0095 (0)	1.5	1.0	1.0	1.0	1.0		1.5	2.0	3.0	
ND Henson	1.6	1.3	1.0	1.0	1.0		1.5	2.7	3.0	
M06-338016	2.2	3.0	1.0	1.3	2.0		2.0	2.0	4.0	
M07-260009	1.5	1.0	1.0	1.0	1.0		1.5	2.0	2.8	
M08-271313	1.7	1.3	1.3	1.0	1.0		1.5	2.7	3.0	
M10-207102	1.7	1.3	1.3	1.0	1.0		2.0	2.0	3.3	
ND12-13257	1.6	1.0	1.0	1.0	1.0		1.5	2.7	2.8	
ND12-15623	1.5	1.3	1.0	1.0	1.0		1.5	2.0	3.0	
ND12-15628	1.6	1.3	1.3	1.3	1.0		1.5	2.0	3.0	
ND12-15647	1.6	1.3	1.3	1.3	1.0		1.5	2.0	3.0	
ND12-17224	1.5	1.0	1.0	1.0	1.0		1.5	2.0	2.8	
ND13-5619	1.9	1.3	1.3	1.3	2.0		2.0	2.0	3.2	
ND13-7727	1.6	1.3	1.0	1.0	1.0		1.5	2.3	3.0	
ND13-7968	1.7	1.0	1.7	1.3	1.0		2.0	2.0	3.0	
OAC 14-01	1.5	1.0	1.0	1.0	1.0		1.5	2.0	3.0	
OAC 14-05	1.9	1.3	1.3	1.3	1.0		2.5	3.0	3.0	

UNIFORM TEST 00, 2016

PROTEIN (%)

Strain	Mean 8 Tests	Crookston MN	Moore- head MN	Shelly MN	Cassel- ton ND	Elora ONT	Ottawa ONT	La Pocatiere QUE	St Mathieu de Beloeil QUE
MN0071 (00)	36.1	34.2	34.0	33.2	33.8	41.7	34.8	39.3	37.6
MN0095 (0)	37.4	34.2	34.5	34.0	34.3	43.4	37.7	39.7	41.3
ND Henson	36.8	34.6	34.5	33.5	35.8	41.8	35.5	40.1	38.8
M06-338016	36.3	34.5	33.2	32.6	33.8	40.9	35.8	40.7	39.0
M07-260009	36.8	34.9	34.9	33.7	34.0	42.4	35.0	40.8	38.6
M08-271313	35.7	33.2	34.1	32.9	33.0	41.5	35.6	37.8	37.2
M10-207102	40.2	37.1	36.8	35.8	38.4	44.7	38.5	47.0	43.4
ND12-13257	36.0	33.5	33.8	33.0	33.3	41.1	36.9	39.2	36.9
ND12-15623	36.8	33.9	34.2	34.2	35.0	41.6	35.0	42.2	38.4
ND12-15628	36.3	33.6	33.7	33.7	34.0	41.6	34.9	40.8	37.8
ND12-15647	36.5	33.8	33.6	33.1	35.1	41.3	35.6	40.5	38.8
ND12-17224	36.4	34.1	34.3	33.4	35.2	40.8	35.3	39.6	38.6
ND13-5619	35.7	33.7	33.8	33.0	33.8	40.9	34.4	38.4	37.8
ND13-7727	36.5	33.6	34.6	34.3	34.9	41.7	34.6	40.6	37.9
ND13-7968	35.6	33.0	34.0	31.7	33.4	40.1	35.0	39.5	38.1
OAC 14-01	36.2	33.5	33.9	32.3	33.7	41.3	35.5	40.6	39.2
OAC 14-05	37.3	33.8	35.1	33.5	33.7	42.6	37.6	41.6	40.3

UNIFORM TEST 00, 2016

OIL (%)

Strain	Mean 8 Tests	Crookston MN	Moore- head MN	Shelly MN	Cassel- ton ND	Elora ONT	Ottawa ONT	La Pocatiere QUE	St Mathieu de Beloeil QUE
MN0071 (00)	20.5	19.6	20.1	20.4	19.3	21.5	20.4	19.3	23.2
MN0095 (0)	19.4	19.1	19.4	19.1	17.6	20.3	18.9	18.8	21.7
ND Henson	19.8	19.1	19.3	19.6	17.8	21.2	19.6	19.2	22.8
M06-338016	19.2	18.4	19.3	19.4	17.6	20.5	18.9	17.8	22.0
M07-260009	19.3	18.6	18.9	19.0	18.0	20.1	19.6	17.9	22.3
M08-271313	20.0	19.3	19.4	19.3	18.4	21.1	19.5	19.7	23.0
M10-207102	17.4	16.8	17.6	17.7	15.7	19.1	17.8	14.8	19.5
ND12-13257	20.7	20.2	20.3	20.3	19.2	21.4	20.0	20.0	23.9
ND12-15623	19.2	18.6	18.9	18.4	17.9	20.6	19.8	17.1	22.5
ND12-15628	19.4	18.7	19.4	18.9	18.1	20.6	19.7	17.6	22.6
ND12-15647	19.6	18.9	19.5	19.3	17.7	20.7	19.6	18.5	22.7
ND12-17224	19.0	18.1	18.7	18.6	17.2	20.5	19.5	17.9	21.8
ND13-5619	19.4	18.6	18.9	18.9	17.7	20.8	19.6	18.5	22.1
ND13-7727	19.1	18.5	18.8	18.3	16.8	20.5	19.6	18.2	22.2
ND13-7968	20.2	19.6	19.5	20.1	18.8	21.7	20.1	19.2	22.5
OAC 14-01	19.4	19.0	19.1	19.5	17.8	20.7	19.1	18.1	21.8
OAC 14-05	19.0	18.4	18.6	19.0	17.7	20.3	18.8	17.7	21.5

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UNIFORM TEST 0, 2016

Ent.	Strain	Parentage	Seed Source	Previous Testing	Gen. Comp.	Unique Traits
1	Sheyenne (0)	Pioneer 9071 x A96-492041	Helms	9	F4	Rps1-c
2	MN0095 (E)	M92-270029 x M93-313185	Lorenz	5	F5	Rps1
3	MN0606CN (SCN)	MN0901 x MN0902CN	Lorenz	7	F5	SCN
4	MN1410 (I)	Unknown	Lorenz	8	F5	
5	M07-260028	NE1900 x MN0107	Lorenz	3	F5	
6	M07-278126	M00-110002 x Sheyenne	Lorenz	2	F5	
7	M08-154093	SD02-906 x U03-100612	Lorenz	2	F6	
8	M08-218002	MN0302 x M01-228058	Lorenz	1	F5	Diversity
9	M08-271196	M03-276016 x IA2064	Lorenz	1	F5	
10	M08-354011	ND03-7566 x MN1413CN	Lorenz	SCNUT0	F5	SCN, PI 88788
11	M08-359053	M02-391112 x MN1701CN	Lorenz	1	F5	SCN
12	M08-362045	MN0606CN x U03-100612	Lorenz	SCNUT0	F5	SCN, PI 88788, Peking
13	M08-434024	M02-333013 x M02-328023	Lorenz	1	F5	YLD
14	M09-251081	PI578425 x M04-267028	Lorenz	PT0	F5	Wilt
15	M09-252032	MTC00-113-61-7 x PI384469A	Lorenz	PT0	F5	Wilt
16	M09-261065	M03-198033 x M02-403070	Lorenz	PT0	F5	Wilt
17	M09-269045	MN0908CN x LD02-4485	Lorenz	SCNPT0	F5	SCN, PI 88788, 209332
18	M09-274025	MN0908CN x LD02-4485	Lorenz	SCNPT0	F5	SCN, PI 88788
19	M09-305001	M01-315029 x OAC05-17	Lorenz	QT0	F5	Oil
20	M09-305144	M01-315029 x OAC05-17	Lorenz	QT0	F5	Oil
21	M09-319035	M03-276016 x M03-281063	Lorenz	QT0	F5	FA Low Lin Stac
22	M09-340060	M02-495076 x MN1013	Lorenz	PT0	F5	Diversity
23	ND09-5798	ND03-7267 x Sheyenne	Helms	3	F4	PI 88788, Rps6
24	ND10-2763	Sheyenne x ND03-5441	Helms	1	F4	PI 88788, Rps6
25	ND10-3067	Sheyenne x {LaMoure(2)Rag1}	Helms	3	F4	PI 88788, Rps1c
26	ND10-3464	ND03-7566 x [ND03-5441 x LaMoure]	Helms	1	F4	PI 88788, Rps6
27	ND11-19471	Sheyenne x ND04-12689	Helms	PT0	F4	
28	ND12-15653	M00-30755 x ND05-17649	Helms	PT0	F4	
29	ND12-15670	M00-30755 x ND05-17649	Helms	PT0	F4	
30	ND12-19542	Cavalier x (Wallace x Sheyenne)	Helms	PT0	F4	
31	OAC 12-21C	Colby x OAC 05-30	Rajcan	1	F5	

UNIFORM TEST 0, 2016

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	IDC Score		Shattering Score	Green Stem Score
		Morris	Rose-mount	Manhattan	St Mathieu de Beloeil
Sheyenne (0)	PGTSYYI	3.0	3.0	4.0	4.3
MN0095 (E)	WGBIYDibI	1.3	1.3	3.0	3.0
MN0606CN (SCN)	WTBSYYI	3.5	3.5	3.0	2.7
MN1410 (I)	WGTIYBfI	4.0	4.0	5.0	4.0
M07-260028	W+PGTIYYI	3.8	3.8	4.0	1.3
M07-278126	W+PGB+TSYY+DibI	3.5	3.5	4.0	1.0
M08-154093	PTBSYBI	4.3	4.3	5.0	1.7
M08-218002	PT+GBDYBrI	3.8	3.8	4.0	3.0
M08-271196	PTBSYBI	4.8	4.8	5.0	0.9
M08-354011	WTBDYYI	2.8	2.8	2.0	3.0
M08-359053	PTBIYYI	2.8	2.8	5.0	1.0
M08-362045	WTBIYB+GI	5.0	5.0	3.0	2.0
M08-434024	PTBSYBI	1.5	1.5	4.0	1.0
M09-251081	PGTSYBfI	3.3	3.3	3.0	1.7
M09-252032	PGTIYBfI	2.0	2.0	5.0	1.7
M09-261065	WTBIYBrI	5.0	5.0	5.0	2.0
M09-269045	PT+GBIYYI	4.5	4.5	3.0	1.3
M09-274025	PGTDYBfI	3.3	3.3	5.0	2.0
M09-305001	PTBSYBrI	3.0	3.0	5.0	1.0
M09-305144	WTBIYLbrI	3.3	3.3	4.0	1.0
M09-319035	PTBIYDbrI	4.5	4.5	5.0	1.0
M09-340060	WTB+TSYGI	4.5	4.5	2.0	2.7
ND09-5798	PTBSYYI	4.3	4.3	2.0	3.0
ND10-2763	PGTIYYI	4.5	4.5	4.0	4.0
ND10-3067	PGBIYYI	5.0	5.0	4.0	4.0
ND10-3464	WGTDYBfI	2.5	2.5	3.0	5.0
ND11-19471	PTBSYYI	3.8	3.8	5.0	3.0
ND12-15653	PLtTDYY+BrI	4.3	4.3	5.0	4.3
ND12-15670	PGTDYYI	1.8	1.8	4.0	1.3
ND12-19542	PGTIYBfI	3.3	3.3	2.0	4.0
OAC 12-21C	PTBSYLbrI	4.0	4.0	3.0	1.3

UNIFORM TEST 0, 2016

REGIONAL SUMMARY

No. of Tests Strain	Yield 6 bu/a	Rank 6 No.	Maturity 6 Date	Lodging 5 Score	Plant Height 5 In.	Seed Size 6 g/100	Seed Quality 5 Score	Composition	
								Protein 6 %	Oil 6 %
Sheyenne (0)	59.4	3	9/16	1.5	34	17.6	2.1	37.3	19.3
MN0095 (E)	47.2	31	-8.4	1.8	29	14.4	1.7	37.0	19.7
MN0606CN (SCN)	57.1	11	1.6	1.9	32	16.5	1.6	37.5	19.3
MN1410 (I)	65.0	1	8.2	1.8	36	19.7	1.7	38.8	19.1
M07-260028	51.8	25	-6.3	1.5	29	17.5	1.7	38.5	18.7
M07-278126	53.4	23	-2.3	1.4	33	16.8	2.0	37.7	19.2
M08-154093	56.1	16	-0.9	1.4	29	19.5	1.5	37.4	20.1
M08-218002	54.4	21	3.4	1.4	35	17.0	2.0	38.8	19.2
M08-271196	49.0	29	-3.6	1.6	31	17.2	1.8	36.7	19.9
M08-354011	53.9	22	1.0	1.6	33	16.3	1.7	37.5	19.6
M08-359053	55.4	17	-3.1	2.0	34	16.9	1.9	38.3	18.9
M08-362045	58.5	7	3.0	1.6	33	16.1	2.0	37.6	19.3
M08-434024	54.8	20	-0.5	1.7	33	18.3	1.8	38.0	19.2
M09-251081	59.0	6	3.1	1.6	36	17.8	2.0	38.2	19.9
M09-252032	57.8	9	1.6	1.9	38	19.8	1.8	37.9	20.1
M09-261065	58.0	8	3.6	1.6	35	20.1	2.1	39.3	18.6
M09-269045	59.4	3	0.6	1.6	33	16.4	1.4	37.1	19.0
M09-274025	50.5	28	-2.6	1.4	31	18.7	2.1	39.1	19.2
M09-305001	57.8	9	3.6	1.9	39	16.6	1.7	34.5	20.9
M09-305144	55.2	19	2.9	1.8	33	17.5	1.8	35.0	20.6
M09-319035	52.9	24	2.6	1.9	32	19.7	2.2	39.6	18.8
M09-340060	55.3	18	0.2	1.5	32	18.9	1.6	38.9	19.2
ND09-5798	56.2	15	1.2	1.2	29	18.3	1.7	36.7	19.8
ND10-2763	56.7	13	-2.5	1.5	31	16.3	2.4	37.4	19.6
ND10-3067	56.9	12	0.3	1.5	34	17.8	2.2	36.6	19.6
ND10-3464	51.7	27	-2.8	1.6	30	16.5	2.3	38.8	19.0
ND11-19471	60.0	2	-2.5	1.5	35	16.7	1.8	35.9	19.3
ND12-15653	48.7	30	-7.1	1.5	32	15.4	1.7	36.9	19.7
ND12-15670	51.8	25	-6.4	1.5	31	17.0	1.8	36.6	20.1
ND12-19542	56.3	14	0.9	1.4	33	19.7	1.6	37.8	19.5
OAC 12-21C	59.4	3	5.1	1.7	31	20.9	1.5	37.6	19.6
Mean	54.6			1.6	33.0	17.4	1.8		
C.V. (%)	13.1			24.6	9.5	5.5	26.6		
L.S.D. (5%)	4.7			0.3	2.2	0.8	0.4		

120.0 Days After Planting

UNIFORM TEST 0, 2016

2015-2016 2-Year Mean

No. of Tests Strain	Yield 12 bu/a	Rank 12 No.	Maturity 12 Date	Lodging 10 Score	Plant Height 11 In.	Seed Size 12 g/100	Seed Quality 10 Score	Composition	
								Protein 11 %	Oil 11 %
Sheyenne (0)	56.0	3	9/20	1.4	31	16.9	1.7	36.9	19.7
MN0095 (0)	45.7	16	-7.6	1.6	27	13.9	1.4	37.2	20.0
MN0606CN (SCN)	54.9	5	1.4	1.8	30	15.9	1.4	37.4	19.8
MN1410 (I)	61.0	1	7.7	1.6	34	18.5	1.4	38.1	19.5
M07-260028	51.3	13	-5.5	1.4	28	17.1	1.5	38.5	18.9
M07-278126	50.4	14	-2.0	1.3	30	16.1	1.7	37.2	19.5
M08-154093	54.4	6	-0.7	1.3	27	18.8	1.4	37.4	20.6
M08-218002	53.8	8	3.6	1.4	34	16.1	1.9	38.3	19.7
M08-271196	48.0	15	-3.7	1.4	28	17.2	1.7	36.6	20.2
M08-359053	53.3	10	-2.5	1.8	31	16.5	1.9	38.1	19.3
M08-434024	53.9	7	-0.8	1.5	31	17.8	1.5	37.9	19.4
ND09-5798	53.8	8	-0.0	1.2	27	17.3	1.5	36.8	20.0
ND10-2763	53.0	11	-3.1	1.3	28	16.2	1.9	37.0	19.7
ND10-3067	55.6	4	-0.5	1.4	32	16.7	1.8	36.3	19.9
ND10-3464	51.6	12	-2.7	1.4	28	15.7	1.8	38.7	19.4
OAC 12-21C	57.3	2	4.4	1.4	29	20.5	1.5	37.6	19.8

118.9 Days After Planting

2014-2016 3-Year Mean

No. of Tests Strain	23	23	24	20	21	22	18	18	18
Sheyenne (0)	55.9	3	9/20	1.3	31	16.9	1.8	36.0	19.3
MN0095 (0)	46.0	8	-7.5	1.4	27	14.1	1.4	36.5	19.5
MN0606CN (SCN)	55.0	4	1.4	1.7	30	16.1	1.5	36.7	19.2
MN1410 (I)	61.0	1	7.5	1.6	33	18.3	1.4	37.2	19.1
M07-260028	51.0	6	-5.6	1.3	27	17.2	1.6	37.9	18.3
M07-278126	50.8	7	-2.1	1.3	29	16.1	1.7	36.2	19.1
M08-154093	54.6	5	-0.7	1.2	27	19.1	1.4	36.5	20.1
ND10-3067	56.4	2	-0.2	1.3	31	16.8	1.9	35.7	19.4

119.0 Days After Planting

UNIFORM TEST 0, 2016

YIELD (bu/a)

Strain	Mean 6 Tests	Morris MN	Rose- mount MN	Casselton ND	Ottawa ONT	Wood- stock ONT	St Mathieu de Beloeil QUE
Sheyenne (O)	59.4	37.3	53.1	67.2	51.2	54.3	93.0
MN0095 (E)	47.2	33.7	34.4	55.1	39.5	40.4	80.0
MN0606CN (SCN)	57.1	51.2	43.3	58.2	44.2	52.4	93.3
MN1410 (I)	65.0	43.6	52.1	68.4	54.2	64.5	107.3
M07-260028	51.8	37.1	31.3	60.5	49.7	42.1	90.3
M07-278126	53.4	41.2	48.1	54.6	44.5	41.3	91.0
M08-154093	56.1	38.2	45.2	63.1	42.8	55.3	91.7
M08-218002	54.4	36.8	37.3	56.7	50.2	49.0	96.3
M08-271196	49.0	28.9	39.7	51.9	43.8	52.6	76.8
M08-354011	53.9	41.7	41.3	57.3	46.0	48.1	89.3
M08-359053	55.4	49.2	50.7	60.9	44.4	44.7	82.3
M08-362045	58.5	51.8	50.5	62.8	44.0	50.9	91.3
M08-434024	54.8	40.4	42.4	58.5	41.3	52.1	94.0
M09-251081	59.0	48.5	40.7	63.3	45.6	53.3	102.7
M09-252032	57.8	41.0	39.0	57.3	47.1	60.5	101.7
M09-261065	58.0	36.9	41.6	63.4	58.8	53.7	93.7
M09-269045	59.4	49.6	45.9	58.0	51.3	53.7	98.0
M09-274025	50.5	35.4	39.6	53.3	44.6	41.0	89.3
M09-305001	57.8	44.3	37.7	64.0	45.9	60.1	94.7
M09-305144	55.2	40.5	46.4	47.1	47.0	56.7	93.7
M09-319035	52.9	37.9	44.1	54.8	45.2	43.4	92.3
M09-340060	55.3	38.0	45.4	59.2	45.7	51.7	92.0
ND09-5798	56.2	40.4	48.7	57.7	48.4	47.6	94.7
ND10-2763	56.7	42.7	39.0	65.5	46.6	44.3	102.0
ND10-3067	56.9	39.9	41.3	62.8	45.6	54.0	98.0
ND10-3464	51.7	46.4	34.2	59.3	39.0	38.1	93.3
ND11-19471	60.0	45.8	47.8	68.9	48.7	49.5	99.3
ND12-15653	48.7	33.9	35.7	52.5	44.8	45.2	80.0
ND12-15670	51.8	36.1	38.5	60.0	44.3	45.1	87.0
ND12-19542	56.3	35.2	51.4	60.7	47.1	52.0	91.3
OAC 12-21C	59.4	46.5	43.3	58.4	51.8	60.7	95.7
Location Mean		41.0	42.9	59.4	46.6	50.3	92.8
C.V. (%)		12.1	9.6	9.2	14.5	6.6	10.3
L.S.D. (5%)		8.1	6.9	8.7	9.2	5.4	15.7
Row Sp. (In.)		30	30	30	16	14	7
Rows/Plot		4	4	4	4	4	5
Reps		3	3	3	3	3	3

UNIFORM TEST 0, 2016

YIELD RANK

Strain	Yield Rank	Morris MN	Rose-mount MN	Casselton ND	Ottawa ONT	Wood-stock ONT	St Mathieu de Beloeil QUE
Sheyenne (O)	3	22	1	3	5	7	17
MN0095 (E)	31	30	29	25	30	30	29
MN0606CN (SCN)	11	2	14	19	25	13	15
MN1410 (I)	1	10	2	2	2	1	1
M07-260028	25	23	31	13	7	27	24
M07-278126	23	13	7	27	22	28	23
M08-154093	16	19	12	8	28	6	20
M08-218002	21	25	27	24	6	19	8
M08-271196	29	31	21	30	27	12	31
M08-354011	22	12	18	22	14	20	25
M08-359053	17	4	4	11	23	24	28
M08-362045	7	1	5	9	26	17	21
M08-434024	20	17	16	17	29	14	12
M09-251081	6	5	20	7	18	11	2
M09-252032	9	14	24	22	11	3	4
M09-261065	8	24	17	6	1	9	13
M09-269045	3	3	10	20	4	9	6
M09-274025	28	27	22	28	21	29	26
M09-305001	9	9	26	5	15	4	10
M09-305144	19	15	9	31	12	5	14
M09-319035	24	21	13	26	19	26	18
M09-340060	18	20	11	16	16	16	19
ND09-5798	15	16	6	21	9	21	11
ND10-2763	13	11	23	4	13	25	3
ND10-3067	12	18	19	9	17	8	7
ND10-3464	27	7	30	15	31	31	16
ND11-19471	2	8	8	1	8	18	5
ND12-15653	30	29	28	29	20	22	30
ND12-15670	25	26	25	14	24	23	27
ND12-19542	14	28	3	12	10	15	22
OAC 12-21C	3	6	15	18	3	2	9

UNIFORM TEST 0, 2016

MATURITY (date)

Strain	Mean 6 Tests	Morris MN	Rose- mount MN	Casselton ND	Ottawa ONT	Wood- stock ONT	St Mathieu de Beloeil QUE
Sheyenne (O)	9/16	9/6	9/20	9/15	9/24	9/19	9/15
MN0095 (E)	-8	1	-17	-8	-11	-7	-8
MN0606CN (SCN)	2	5	1	-1	2	2	1
MN1410 (I)	8	11	4	10	9	8	7
M07-260028	-6	2	-14	-7	-5	-8	-6
M07-278126	-2	1	-10	-3	-3	4	-3
M08-154093	-1	0	-5	1	-2	1	-1
M08-218002	3	2	0	7	4	5	3
M08-271196	-4	0	-3	-4	-3	3	-15
M08-354011	1	1	2	1	2	0	0
M08-359053	-3	2	-6	-4	3	2	-15
M08-362045	3	6	2	6	1	2	1
M08-434024	-1	-0	-4	1	-4	3	1
M09-251081	3	5	1	5	0	4	3
M09-252032	2	1	-3	5	3	1	2
M09-261065	4	4	1	5	5	5	1
M09-269045	1	0	-1	1	1	2	0
M09-274025	-3	-1	-6	-3	-3	1	-4
M09-305001	4	8	2	7	0	3	2
M09-305144	3	5	3	6	0	2	2
M09-319035	3	5	-2	10	0	1	1
M09-340060	0	4	-4	1	1	-1	0
ND09-5798	1	1	-1	4	-2	3	2
ND10-2763	-3	-1	-4	-2	-3	-2	-3
ND10-3067	0	-0	0	1	-1	1	1
ND10-3464	-3	-1	-4	-2	-5	-1	-4
ND11-19471	-3	-1	-2	-2	-2	-5	-3
ND12-15653	-7	-2	-12	-13	-6	-4	-6
ND12-15670	-6	2	-13	-7	-10	-4	-6
ND12-19542	1	-0	-1	2	-2	5	2
OAC 12-21C	5	4	3	10	3	5	5
Date Planted	5/19	5/10	6/2	5/6	5/26	5/25	5/17
Days to Mature	120	119	110	132	121	117	121

UNIFORM TEST 0, 2016

LODGING (score)

Strain	Mean 5 Tests	Morris MN	Rose- mount MN	Casselton ND	Ottawa ONT	Wood- stock ONT	St Mathieu de Beloeil QUE
Sheyenne (O)	1.5		2.7	1.0	1.3	1.6	1.0
MN0095 (E)	1.8		3.3	1.0	2.0	1.6	1.0
MN0606CN (SCN)	1.9		3.7	1.0	1.7	1.6	1.3
MN1410 (I)	1.8		3.7	1.0	1.7	1.2	1.3
M07-260028	1.5		2.7	1.0	1.3	1.6	1.0
M07-278126	1.4		2.0	1.0	1.7	1.4	1.0
M08-154093	1.4		2.3	1.0	1.3	1.2	1.0
M08-218002	1.4		2.7	1.0	1.3	1.2	1.0
M08-271196	1.6		2.7	1.0	2.0	1.1	1.0
M08-354011	1.6		3.3	1.0	1.7	1.2	1.0
M08-359053	2.0		3.0	1.0	2.0	1.8	2.3
M08-362045	1.6		3.0	1.0	1.7	1.5	1.0
M08-434024	1.7		2.7	1.0	2.0	1.5	1.3
M09-251081	1.6		3.3	1.0	1.7	1.1	1.0
M09-252032	1.9		3.0	1.0	2.0	1.9	1.7
M09-261065	1.6		3.0	1.0	1.7	1.4	1.0
M09-269045	1.6		3.3	1.0	1.3	1.2	1.0
M09-274025	1.4		2.3	1.0	1.3	1.4	1.0
M09-305001	1.9		4.0	1.0	2.0	1.7	1.0
M09-305144	1.8		3.7	1.0	2.0	1.2	1.0
M09-319035	1.9		2.7	1.0	2.0	1.9	2.0
M09-340060	1.5		3.0	1.0	1.3	1.4	1.0
ND09-5798	1.2		2.0	1.0	1.0	1.2	1.0
ND10-2763	1.5		2.7	1.0	1.0	1.4	1.3
ND10-3067	1.5		2.3	1.0	1.7	1.3	1.3
ND10-3464	1.6		3.0	1.0	1.7	1.1	1.0
ND11-19471	1.5		2.7	1.0	1.3	1.5	1.0
ND12-15653	1.5		2.7	1.0	1.7	1.3	1.0
ND12-15670	1.5		2.3	1.0	2.0	1.3	1.0
ND12-19542	1.4		2.0	1.0	1.7	1.4	1.0
OAC 12-21C	1.7		3.0	1.0	2.0	1.4	1.0

UNIFORM TEST 0, 2016

PLANT HEIGHT (inches)

Strain	Mean 5 Tests	Morris MN	Rose- mount MN	Casselton ND	Ottawa ONT	Wood- stock ONT	St Mathieu de Beloeil QUE
Sheyenne (O)	34		36	30	37	32	34
MN0095 (E)	29		29	28	34	28	28
MN0606CN (SCN)	32		34	30	37	28	33
MN1410 (I)	36		39	28	39	37	35
M07-260028	29		27	33	30	27	30
M07-278126	33		33	30	42	29	33
M08-154093	29		29	28	31	29	28
M08-218002	35		38	35	37	32	34
M08-271196	31		31	27	38	35	26
M08-354011	33		34	31	36	31	33
M08-359053	34		35	31	41	31	33
M08-362045	33		35	29	38	31	30
M08-434024	33		34	28	35	33	35
M09-251081	36		38	35	40	31	35
M09-252032	38		40	33	42	42	35
M09-261065	35		37	34	38	32	34
M09-269045	33		36	30	35	33	33
M09-274025	31		34	28	36	29	30
M09-305001	39		43	38	42	38	35
M09-305144	33		37	26	39	32	31
M09-319035	32		32	32	36	31	31
M09-340060	32		31	31	36	28	33
ND09-5798	29		28	26	30	30	29
ND10-2763	31		35	32	31	27	31
ND10-3067	34		36	31	38	33	34
ND10-3464	30		28	30	34	28	29
ND11-19471	35		38	36	38	33	32
ND12-15653	32		35	28	36	32	31
ND12-15670	31		33	32	36	25	30
ND12-19542	33		36	33	35	31	32
OAC 12-21C	31		31	30	36	30	29

UNIFORM TEST 0, 2016

SEED SIZE (g/100)

Strain	Mean 6 Tests	Morris MN	Rose- mount MN	Casselton ND	Ottawa ONT	Wood- stock ONT	St Mathieu de Beloeil QUE
Sheyenne (O)	17.6	16.0	17.6	13.4	19.3	19.7	19.9
MN0095 (E)	14.4	13.1	13.2	9.2	18.3	16.7	15.9
MN0606CN (SCN)	16.5	15.8	16.2	11.5	18.8	18.5	18.1
MN1410 (I)	19.7	17.0	17.4	17.4	21.7	23.4	21.5
M07-260028	17.5	15.8	16.2	13.4	19.3	20.6	19.6
M07-278126	16.8	15.8	15.5	12.5	19.4	19.5	18.4
M08-154093	19.5	16.9	17.6	18.1	20.3	23.6	20.5
M08-218002	17.0	15.9	14.8	11.8	19.5	21.1	18.7
M08-271196	17.2	15.8	14.9	12.9	18.7	21.4	19.2
M08-354011	16.3	14.1	15.3	14.1	18.4	18.5	17.3
M08-359053	16.9	15.6	16.2	13.1	19.1	19.6	18.0
M08-362045	16.1	14.6	15.6	11.4	18.4	19.2	17.2
M08-434024	18.3	16.0	17.5	14.4	19.9	22.4	19.6
M09-251081	17.8	15.8	16.1	12.7	20.5	21.4	20.5
M09-252032	19.8	18.0	18.6	14.7	22.4	23.6	21.8
M09-261065	20.1	16.5	17.7	17.8	23.0	23.8	21.8
M09-269045	16.4	14.6	16.1	14.3	18.5	18.0	17.1
M09-274025	18.7	17.8	16.9	15.3	19.7	22.1	20.6
M09-305001	16.6	14.5	15.6	14.4	17.5	19.6	17.9
M09-305144	17.5	15.7	16.4	12.2	18.3	22.1	20.1
M09-319035	19.7	17.4	17.2	14.4	23.2	25.2	20.9
M09-340060	18.9	17.4	17.1	14.1	22.5	22.5	19.6
ND09-5798	18.3	16.2	16.7	16.4	19.8	21.0	20.0
ND10-2763	16.3	14.1	14.6	15.5	18.3	18.3	17.2
ND10-3067	17.8	15.7	16.5	16.8	18.4	20.0	19.2
ND10-3464	16.5	16.0	15.0	12.0	19.2	19.3	17.2
ND11-19471	16.7	15.5	15.8	15.4	18.2	17.4	17.7
ND12-15653	15.4	13.8	13.5	14.6	17.5	16.9	16.2
ND12-15670	17.0	14.7	14.8	16.2	18.9	19.4	17.7
ND12-19542	19.7	17.2	17.8	18.5	22.2	22.0	20.4
OAC 12-21C	20.9	18.4	17.9	15.3	23.7	26.8	23.5

UNIFORM TEST 0, 2016

SEED QUALITY (score)

Strain	Mean 5 Tests	Morris MN	Rose- mount MN	Casselton ND	Ottawa ONT	Wood- stock ONT	St Mathieu de Beloeil QUE
Sheyenne (O)	2.1	2.0	1.3	2.0	2.0	3.0	
MN0095 (E)	1.7	1.7	2.0	1.0	2.0	2.0	
MN0606CN (SCN)	1.6	1.7	1.3	1.0	2.0	2.0	
MN1410 (I)	1.7	1.7	1.3	1.0	2.0	2.5	
M07-260028	1.7	2.0	1.7	1.0	2.0	2.0	
M07-278126	2.0	1.7	2.0	1.0	2.0	3.5	
M08-154093	1.5	1.7	1.0	1.0	2.0	2.0	
M08-218002	2.0	2.0	1.0	1.0	2.0	4.0	
M08-271196	1.8	2.0	1.7	1.0	2.0	2.5	
M08-354011	1.7	2.0	1.3	1.0	2.0	2.0	
M08-359053	1.9	2.0	1.7	1.0	2.0	3.0	
M08-362045	2.0	1.7	2.0	1.0	2.0	3.5	
M08-434024	1.8	2.0	2.0	1.0	2.0	2.0	
M09-251081	2.0	2.0	1.0	1.0	2.3	3.5	
M09-252032	1.8	2.0	1.3	1.0	2.0	2.5	
M09-261065	2.1	2.0	1.7	1.0	2.0	4.0	
M09-269045	1.4	1.3	1.3	1.0	2.0	1.5	
M09-274025	2.1	1.7	2.0	2.0	2.0	3.0	
M09-305001	1.7	1.7	1.7	1.0	2.0	2.0	
M09-305144	1.8	1.7	2.0	1.0	2.0	2.5	
M09-319035	2.2	1.7	2.0	1.0	2.0	4.5	
M09-340060	1.6	1.3	1.7	1.0	2.0	2.0	
ND09-5798	1.7	2.0	1.3	1.0	2.0	2.0	
ND10-2763	2.4	2.0	2.0	1.0	2.3	4.5	
ND10-3067	2.2	2.3	1.3	1.0	2.0	4.5	
ND10-3464	2.3	2.0	2.0	1.0	2.0	4.5	
ND11-19471	1.8	2.0	1.3	1.0	2.0	2.5	
ND12-15653	1.7	1.7	2.0	1.0	2.0	2.0	
ND12-15670	1.8	2.0	2.0	1.0	2.0	2.0	
ND12-19542	1.6	2.0	1.0	1.0	2.0	2.0	
OAC 12-21C	1.5	1.0	1.0	1.0	2.0	2.5	

UNIFORM TEST 0, 2016

PROTEIN (%)

Strain	Mean 6 Tests	Morris MN	Rose- mount MN	Cassel- ton ND	Ottawa ONT	Wood- stock ONT	St Mathieu de Beloeil QUE
Sheyenne (O)	37.3	35.3	36.4	34.7	36.9	40.9	39.3
MN0095 (E)	37.0	35.3	35.6	34.3	36.2	41.7	39.0
MN0606CN (SCN)	37.5	35.3	36.5	33.9	37.4	42.0	40.0
MN1410 (I)	38.8	36.8	37.6	35.5	38.3	43.5	41.0
M07-260028	38.5	36.5	36.8	35.7	38.3	42.5	41.0
M07-278126	37.7	35.3	35.8	36.2	36.9	41.9	40.0
M08-154093	37.4	35.6	35.8	34.4	37.3	41.8	39.3
M08-218002	38.8	36.8	38.0	36.0	37.5	43.2	41.0
M08-271196	36.7	35.4	34.9	34.0	35.6	41.3	39.0
M08-354011	37.5	35.1	36.2	33.1	37.3	43.1	40.0
M08-359053	38.3	36.0	37.3	35.4	37.4	43.1	40.7
M08-362045	37.6	35.1	36.3	34.1	37.5	42.7	39.7
M08-434024	38.0	35.5	36.9	34.9	37.5	42.9	40.0
M09-251081	38.2	35.7	37.6	34.2	38.4	42.7	40.3
M09-252032	37.9	36.1	36.6	35.3	38.4	41.5	39.7
M09-261065	39.3	36.5	38.3	36.0	38.3	44.7	42.0
M09-269045	37.1	34.1	37.1	34.0	36.9	41.5	39.3
M09-274025	39.1	36.8	37.8	36.1	38.5	44.4	41.0
M09-305001	34.5	33.1	34.1	31.2	34.0	38.7	35.7
M09-305144	35.0	33.3	34.3	31.0	34.7	39.5	37.0
M09-319035	39.6	36.9	38.4	35.7	39.4	45.3	41.7
M09-340060	38.9	36.7	38.3	36.3	37.6	43.6	40.7
ND09-5798	36.7	34.9	35.8	32.7	36.9	41.0	39.0
ND10-2763	37.4	34.9	36.2	34.6	37.5	41.9	39.3
ND10-3067	36.6	34.9	35.5	32.9	36.3	40.6	39.3
ND10-3464	38.8	36.9	37.1	35.9	37.3	44.2	41.0
ND11-19471	35.9	33.6	35.9	33.4	35.4	39.1	38.0
ND12-15653	36.9	35.0	36.3	34.6	35.8	40.9	39.0
ND12-15670	36.6	35.1	36.0	33.7	35.7	41.2	38.0
ND12-19542	37.8	35.7	36.8	34.0	37.3	42.5	40.3
OAC 12-21C	37.6	35.8	36.1	33.0	37.9	42.8	40.0

UNIFORM TEST 0, 2016

OIL (%)

Strain	Mean 6 Tests	Morris MN	Rose- mount MN	Cassel- ton ND	Ottawa ONT	Wood- stock ONT	St Mathieu de Beloeil QUE
Sheyenne (O)	19.3	18.9	18.1	17.3	18.7	21.3	21.7
MN0095 (E)	19.7	18.9	18.6	17.6	19.2	21.5	22.3
MN0606CN (SCN)	19.3	18.7	18.3	17.4	18.8	21.2	21.7
MN1410 (I)	19.1	18.7	18.4	16.6	18.6	20.8	21.3
M07-260028	18.7	18.3	17.9	16.2	18.3	20.7	21.0
M07-278126	19.2	18.9	18.3	16.6	18.8	21.0	21.3
M08-154093	20.1	19.7	19.0	18.2	19.3	21.7	22.7
M08-218002	19.2	18.8	17.6	17.3	18.9	21.0	21.7
M08-271196	19.9	19.0	19.3	17.7	19.7	21.9	22.0
M08-354011	19.6	19.3	18.3	18.0	19.0	21.1	21.7
M08-359053	18.9	18.8	18.0	16.4	18.6	20.9	20.7
M08-362045	19.3	18.9	18.4	17.2	19.0	21.2	21.3
M08-434024	19.2	18.8	18.5	17.0	18.9	20.7	21.3
M09-251081	19.9	19.7	18.5	18.3	19.1	21.7	22.3
M09-252032	20.1	19.4	19.1	17.6	19.2	22.0	23.0
M09-261065	18.6	18.4	17.6	16.2	18.6	20.2	21.0
M09-269045	19.0	18.9	17.7	16.7	18.7	21.2	21.0
M09-274025	19.2	18.9	18.2	17.4	18.8	20.3	21.3
M09-305001	20.9	20.1	19.7	18.7	20.4	22.8	23.7
M09-305144	20.6	20.0	19.7	18.5	20.1	22.4	23.0
M09-319035	18.8	18.6	17.8	16.8	18.2	20.4	21.0
M09-340060	19.2	18.7	18.3	16.7	18.7	20.9	21.7
ND09-5798	19.8	19.4	18.8	18.0	19.0	21.9	21.7
ND10-2763	19.6	19.4	18.8	16.9	19.1	21.4	22.0
ND10-3067	19.6	19.2	18.6	17.7	18.9	21.3	22.0
ND10-3464	19.0	18.8	18.1	16.5	19.1	20.3	21.3
ND11-19471	19.3	19.0	17.5	17.1	18.5	21.8	21.7
ND12-15653	19.7	19.0	18.5	17.7	19.4	21.7	22.0
ND12-15670	20.1	19.5	18.8	17.9	19.8	21.8	22.7
ND12-19542	19.5	19.3	18.6	17.5	19.0	21.0	21.7
OAC 12-21C	19.6	19.1	18.7	18.0	18.9	21.2	21.7

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PRELIMINARY TEST 0, 2016

Ent.	Strain	Parentage	Seed Source	Gen. Comp.	Unique Traits
1	Sheyenne (O)	Pioneer 9071 x A96-492041	Helms	F4	Rps1-c
2	MN0095 (E)	M92-270029 x M93-313185	Lorenz	F5	Rps1
3	MN0606CN (SCN)	MN0901 x MN0902CN	Lorenz	F5	SCN
4	MN1410 (I)	Unknown	Lorenz	F5	
5	M07-340083	M99-274166 x MN0091	Lorenz	F5	
6	M10-198005	M03-149087 x M04-267028	Lorenz	F5	
7	M10-198059	M03-149087 x M04-267028	Lorenz	F5	
8	M10-200119	M02-399012 x M05-251-1002	Lorenz	F5	WILT
9	M10-207126	M03-165068 x M04-419020	Lorenz	F5	
10	M10-218053	M04-239074 x LD05-30586a	Lorenz	F5	APHID
11	M10-218069	M04-239074 x LD05-30586a	Lorenz	F5	APHID
12	M10-249014	MN1410 x PI561389B	Lorenz	F5	DIVERS PHY
13	M10-249028	MN1410 x PI561389B	Lorenz	F5	DIVERS PHY
14	M10-268096	M05-175-1039 x Sheyenne	Lorenz	F5	Rps8 1c
15	M11-120121	Sheyenne x XP2410	Lorenz	F5	YLD
16	M11-124006	MN1410 x 289.TC	Lorenz	F5	YLD
17	M11-130013	289.TC x Sheyenne	Lorenz	F5	YLD
18	M11-130058	289.TC x Sheyenne	Lorenz	F5	YLD
19	M11-131044	XY2510 x Sheyenne	Lorenz	F5	YLD
20	Pioneer 91M10	ND1005T x [IA2067 x ProSoy]	Helms	F4	High Protein
21	ND12-18749	ProSoy x ND04-10249	Helms	F4	High Protein
22	ND13-4653	Pioneer 91M10 x Sheyenne	Helms	F4	
23	ND13-6213	Sheyenne x Ashtabula	Helms	F4	
24	ND13-7649	M01-213045 x Sheyenne	Helms	F4	
25	ND13-7728	ND03-7566 x ND06-25513	Helms	F4	PI 88788, Rps6
26	ND13-7810	ND03-7566 x ND06-25513	Helms	F4	PI 88788, Rps6
27	OAC 14-07C	OAC Lakeview x Heinong 50	Rajcan	F5	Diversity (50% Chinese)
28	OAC 14-12C	OAC Lakeview x Colin	Rajcan	F5	

PRELIMINARY TEST 0, 2016

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	IDC Score		Shattering Score
		Morris	Rose-mount	Man-hattan
Sheyenne (0)	PGTSYYI	3.0	3.0	4.0
MN0095 (E)	WGBIYDibI	1.3	1.3	3.0
MN0606CN (SCN)	WTBSYYI	2.3	2.3	3.0
MN1410 (I)	WGTIYBfi	3.8	3.8	5.0
M07-340083	PG+TB+TIYYI	3.3	3.3	2.0
M10-198005	WGB+TSYYI	1.8	1.8	3.0
M10-198059	PGTDYBfi	3.0	3.0	4.0
M10-200119	WGBIYYI	3.8	3.8	2.0
M10-207126	WGTDYBfi	2.5	2.5	5.0
M10-218053	PTBSYBI	4.0	4.0	2.0
M10-218069	WTBSYBrI	2.5	2.5	2.0
M10-249014	PGTSYBfi	2.3	2.3	5.0
M10-249028	WGTIYBfi	2.5	2.5	5.0
M10-268096	WTBSYBr+YI	2.5	2.5	4.0
M11-120121	PLtBIYLbI	3.3	3.3	4.0
M11-124006	WTBTYB+LbrI	3.8	3.8	5.0
M11-130013	WGTSYYI	4.8	4.8	3.0
M11-130058	P+WGBSYYYI	3.0	3.0	4.0
M11-131044	PGBSYYI	1.3	1.3	3.0
Pioneer 91M10	PGTDYYI	2.3	2.3	3.0
ND12-18749	PGTIYYI	1.5	1.5	4.0
ND13-4653	PGTDYYI	2.0	2.0	3.0
ND13-6213	PLtTSYYI	2.8	2.8	5.0
ND13-7649	PLtB+TSYLbI	3.8	3.8	5.0
ND13-7728	W+PGTDYDib+Bfi	2.5	2.5	5.0
ND13-7810	PGTIYDibI	3.0	3.0	5.0
OAC 14-07C	PGTIYYI	2.5	2.5	5.0
OAC 14-12C	PGTSYYI	2.5	2.5	4.0

PRELIMINARY TEST 0, 2016

REGIONAL SUMMARY

No. of Tests Strain	Yield 4 bu/a	Rank 4 No.	Maturity 5 Date	Lodging 4 Score	Plant Height 4 In.	Seed Size 5 g/100	Seed Quality 5 Score	Composition	
								Protein 5 %	Oil 5 %
Sheyenne (0)	55.7	3	9/19	1.3	33	17.6	2.5	37.2	19.5
MN0095 (E)	44.0	26	-7.4	1.8	27	16.2	1.6	37.6	19.6
MN0606CN (SCN)	55.5	4	3.1	1.9	33	17.7	1.8	38.7	19.0
MN1410 (I)	56.5	2	7.0	1.9	35	20.3	1.4	39.1	19.2
M07-340083	36.7	28	-1.0	1.5	29	17.6	1.8	36.1	18.1
M10-198005	45.2	22	-2.7	1.6	29	18.7	1.8	38.8	19.1
M10-198059	45.6	21	-4.7	1.8	31	18.1	3.0	39.4	19.2
M10-200119	50.2	17	3.1	1.9	36	15.4	2.2	39.5	18.7
M10-207126	44.5	24	-6.0	1.0	26	17.7	3.3	39.2	18.6
M10-218053	50.9	12	0.6	1.6	30	15.6	1.7	39.1	19.1
M10-218069	44.0	26	3.1	2.8	37	16.3	1.7	39.3	18.5
M10-249014	50.6	14	6.2	1.8	33	19.3	1.8	39.0	19.4
M10-249028	45.1	23	-2.2	1.4	29	18.8	2.1	38.8	19.6
M10-268096	54.1	8	2.9	1.2	32	19.8	1.9	38.4	19.5
M11-120121	57.9	1	5.0	1.3	35	16.6	1.7	39.0	19.1
M11-124006	47.5	19	0.6	1.4	31	19.2	2.5	39.6	19.2
M11-130013	55.3	6	1.0	1.3	28	17.0	2.1	37.7	19.4
M11-130058	54.9	7	1.2	1.4	32	18.8	2.1	38.1	18.9
M11-131044	52.6	11	1.3	1.3	35	17.6	1.7	40.9	18.2
Pioneer 91M10	55.4	5	1.0	1.3	30	19.0	1.6	38.9	18.9
ND12-18749	50.3	16	1.7	1.9	37	19.7	1.8	40.5	18.4
ND13-4653	53.6	9	0.8	1.4	35	18.6	2.1	37.8	19.4
ND13-6213	44.4	25	-4.9	1.8	34	18.1	2.1	36.4	20.7
ND13-7649	48.4	18	2.7	1.6	32	18.2	2.0	36.4	20.2
ND13-7728	47.0	20	-5.4	1.3	32	16.9	2.8	38.2	19.1
ND13-7810	50.7	13	-0.1	1.4	32	16.1	1.7	36.9	19.5
OAC 14-07C	50.4	15	1.4	1.2	29	22.0	2.1	39.3	18.5
OAC 14-12C	53.1	10	0.0	1.3	28	20.3	1.4	38.1	19.5
Mean	49.7			1.5	31.2	17.8	2.0		
C.V. (%)	13.7			34.6	10.9	5.9	27.3		
L.S.D. (5%)	5.7			0.5	3.2	1.1	0.6		

121.2 Days After Planting

PRELIMINARY TEST 0, 2016

YIELD (bu/a)

Strain	Mean 4 Tests	Morris* MN	Rose- mount MN	Cassel- ton ND	Elora ONT	Wood- stock ONT
Sheyenne (0)	55.7	52.2	53.5	57.0	63.9	48.4
MN0095 (E)	44.0	47.5	37.3	47.4	61.0	30.4
MN0606CN (SCN)	55.5	59.5	56.6	59.4	60.1	45.9
MN1410 (I)	56.5	54.6	54.3	53.6	63.5	54.5
M07-340083	36.7	46.6	39.5	33.9		
M10-198005	45.2	43.3	40.3	46.9	54.7	38.9
M10-198059	45.6	42.9	44.3	49.3	52.1	36.6
M10-200119	50.2	48.5	38.8	59.2	60.8	42.0
M10-207126	44.5	36.8	43.2	51.9	51.9	31.1
M10-218053	50.9	50.7	49.7	52.1	58.2	43.5
M10-218069	44.0	52.4	38.1	46.2	46.3	45.4
M10-249014	50.6	45.1	48.1	46.9	59.4	47.9
M10-249028	45.1	44.2	39.1	37.7	61.0	42.8
M10-268096	54.1	47.8	49.8	54.1	65.3	47.1
M11-120121	57.9	45.7	57.9	56.6	59.1	57.9
M11-124006	47.5	53.8	38.9	51.3	57.7	42.2
M11-130013	55.3	49.9	56.5	52.1	61.7	51.0
M11-130058	54.9	55.7	43.6	63.7	66.9	45.6
M11-131044	52.6	48.2	50.7	51.5	58.6	49.7
Pioneer 91M10	55.4	54.3	51.1	51.0	71.5	48.2
ND12-18749	50.3	45.2	40.6	55.2	61.2	44.2
ND13-4653	53.6	53.3	47.4	51.6	69.3	46.0
ND13-6213	44.4	41.8	32.5	50.3	60.9	34.1
ND13-7649	48.4	43.1	45.9	41.6	63.6	42.4
ND13-7728	47.0	33.9	41.6	51.0	54.9	40.6
ND13-7810	50.7	51.4	50.5	47.1	60.9	44.2
OAC 14-07C	50.4	40.8	43.9	53.9	60.6	43.2
OAC 14-12C	53.1	56.0	39.3	56.5	65.5	51.3
Location Mean		48.1	45.5	51.0	60.4	44.3
C.V. (%)		19.2	10.7	12.4	6.0	9.6
L.S.D. (5%)		19.0	11.2	10.1	7.5	8.7
Row Sp. (In.)		30	30	30	14	14
Rows/Plot		4	4	4	4	4
Reps		2	2	3	3	3

*Data not included in the mean.

PRELIMINARY TEST 0, 2016

YIELD RANK

Strain	Yield Rank	Morris MN	Rose- mount MN	Cassel- ton ND	Elora ONT	Wood- stock ONT
Sheyenne (0)	3	9	5	4	6	6
MN0095 (E)	26	16	27	21	11	27
MN0606CN (SCN)	4	1	2	2	17	11
MN1410 (I)	2	4	4	10	8	2
M07-340083	28	17	21	28		
M10-198005	22	22	20	23	24	23
M10-198059	21	24	14	20	25	24
M10-200119	17	13	25	3	15	21
M10-207126	24	27	17	13	26	26
M10-218053	12	11	10	11	21	16
M10-218069	26	8	26	25	27	13
M10-249014	14	20	11	23	18	8
M10-249028	23	21	23	27	11	18
M10-268096	8	15	9	8	5	9
M11-120121	1	18	1	5	19	1
M11-124006	19	6	24	16	22	20
M11-130013	6	12	3	11	9	4
M11-130058	7	3	16	1	3	12
M11-131044	11	14	7	15	20	5
Pioneer 91M10	5	5	6	17	1	7
ND12-18749	16	19	19	7	10	14
ND13-4653	9	7	12	14	2	10
ND13-6213	25	25	28	19	13	25
ND13-7649	18	23	13	26	7	19
ND13-7728	20	28	18	17	23	22
ND13-7810	13	10	8	22	13	14
OAC 14-07C	15	26	15	9	16	17
OAC 14-12C	10	2	22	6	4	3

PRELIMINARY TEST 0, 2016

MATURITY (date)

Strain	Mean 5 Tests	Morris MN	Rose- mount MN	Cassel- ton ND	Elora ONT	Wood- stock ONT
Sheyenne (0)	9/19	9/10	9/20	9/16	9/30	9/20
MN0095 (E)	-7	-4	-14	-8	-10	-2
MN0606CN (SCN)	3	5	4	2	4	1
MN1410 (I)	7	8	2	9	7	9
M07-340083	-1	-1	-5	3		
M10-198005	-3	-4	-7	0	-4	0
M10-198059	-5	-2	-8	-7	-8	1
M10-200119	3	6	0	5	4	1
M10-207126	-6	-4	-10	-5	-9	-3
M10-218053	1	3	-2	0	2	1
M10-218069	3	6	-3	3	7	3
M10-249014	6	9	0	11	7	5
M10-249028	-2	-1	-5	-5	-4	4
M10-268096	3	2	-1	5	5	4
M11-120121	5	6	7	6	4	2
M11-124006	1	1	-2	4	-2	2
M11-130013	1	1	2	3	-5	5
M11-130058	1	0	-2	6	1	1
M11-131044	1	3	-2	3	2	1
Pioneer 91M10	1	4	-5	6	-1	1
ND12-18749	2	5	-9	7	4	2
ND13-4653	1	1	-2	4	0	1
ND13-6213	-5	-3	-5	-5	-9	-3
ND13-7649	3	0	-1	8	3	3
ND13-7728	-5	-4	-8	-6	-9	-1
ND13-7810	-0	-1	-4	4	-1	1
OAC 14-07C	1	4	-1	7	-5	2
OAC 14-12C	0	2	-1	0	-2	0
Date Planted	5/21	5/10	6/2	5/5	5/31	5/26
Days to Mature	121	123	110	134	122	117

PRELIMINARY TEST 0, 2016

LODGING (score)

Strain	Mean 4 Tests	Morris MN	Rose- mount MN	Cassel- ton ND	Elora ONT	Wood- stock ONT
Sheyenne (0)	1.3		2.0	1.0	1.0	1.0
MN0095 (E)	1.8		3.5	1.0	1.8	1.0
MN0606CN (SCN)	1.9		3.0	1.0	2.8	1.0
MN1410 (I)	1.9		2.5	1.0	3.0	1.0
M07-340083	1.5		2.0	1.0		
M10-198005	1.6		3.0	1.0	1.3	1.0
M10-198059	1.8		3.5	1.0	1.8	1.0
M10-200119	1.9		4.0	1.0	1.5	1.0
M10-207126	1.0		1.0	1.0	1.0	1.0
M10-218053	1.6		3.0	1.0	1.5	1.0
M10-218069	2.8		4.5	1.0	4.5	1.3
M10-249014	1.8		2.5	1.0	2.8	1.0
M10-249028	1.4		2.0	1.0	1.8	1.0
M10-268096	1.2		1.0	1.0	1.8	1.0
M11-120121	1.3		2.0	1.0	1.3	1.0
M11-124006	1.4		2.0	1.0	1.5	1.0
M11-130013	1.3		2.0	1.0	1.0	1.0
M11-130058	1.4		2.5	1.0	1.3	1.0
M11-131044	1.3		2.0	1.0	1.0	1.0
Pioneer 91M10	1.3		2.0	1.0	1.0	1.0
ND12-18749	1.9		3.0	1.0	2.8	1.0
ND13-4653	1.4		2.5	1.0	1.3	1.0
ND13-6213	1.8		3.5	1.0	1.8	1.0
ND13-7649	1.6		2.5	1.0	2.0	1.0
ND13-7728	1.3		2.0	1.0	1.3	1.0
ND13-7810	1.4		2.0	1.0	1.5	1.0
OAC 14-07C	1.2		1.5	1.0	1.3	1.0
OAC 14-12C	1.3		2.0	1.0	1.3	1.0

PRELIMINARY TEST 0, 2016

PLANT HEIGHT (inches)

Strain	Mean 4 Tests	Morris MN	Rose- mount MN	Cassel- ton ND	Elora ONT	Wood- stock ONT
Sheyenne (0)	33		37	32	36	28
MN0095 (E)	27		29	20	36	24
MN0606CN (SCN)	33		36	29	39	27
MN1410 (I)	35		40	28	42	32
M07-340083	29		34	24		
M10-198005	29		34	25	36	22
M10-198059	31		36	28	38	24
M10-200119	36		41	31	43	29
M10-207126	26		26	27	31	21
M10-218053	30		32	27	37	23
M10-218069	37		44	31	41	33
M10-249014	33		38	25	39	31
M10-249028	29		33	20	37	27
M10-268096	32		33	31	39	24
M11-120121	35		38	31	40	33
M11-124006	31		33	27	40	23
M11-130013	28		32	25	32	24
M11-130058	32		36	30	40	24
M11-131044	35		39	30	43	29
Pioneer 91M10	30		32	29	35	23
ND12-18749	37		46	29	43	28
ND13-4653	35		41	31	40	29
ND13-6213	34		39	32	39	26
ND13-7649	32		39	24	40	26
ND13-7728	32		36	26	41	26
ND13-7810	32		39	21	41	28
OAC 14-07C	29		30	30	33	24
OAC 14-12C	28		29	27	30	25

PRELIMINARY TEST 0, 2016

SEED SIZE (g/100)

Strain	Mean 5 Tests	Morris MN	Rose- mount MN	Cassel- ton ND	Elora ONT	Wood- stock ONT
Sheyenne (0)	17.6	17.4	16.1	16.0	18.2	20.1
MN0095 (E)	16.2	16.8	14.0	16.9	16.6	16.8
MN0606CN (SCN)	17.7	16.7	16.5	17.0	19.3	19.2
MN1410 (I)	20.3	18.7	18.0	16.8	23.5	24.4
M07-340083	17.6	17.9	17.1	17.8		
M10-198005	18.7	15.7	16.1	17.6	20.8	23.3
M10-198059	18.1	17.5	16.4	15.5	19.1	22.2
M10-200119	15.4	15.6	14.6	14.6	15.5	16.9
M10-207126	17.7	16.9	16.4	15.5	19.1	20.5
M10-218053	15.6	14.3	15.6	13.5	17.4	17.3
M10-218069	16.3	15.5	14.0	13.3	19.1	19.8
M10-249014	19.3	17.7	16.6	17.3	21.8	23.3
M10-249028	18.8	18.0	17.6	16.3	20.6	21.7
M10-268096	19.8	18.8	17.4	18.0	21.8	23.1
M11-120121	16.6	15.6	17.2	14.6	16.6	18.8
M11-124006	19.2	18.9	18.1	15.6	20.9	22.4
M11-130013	17.0	16.3	17.1	15.6	16.6	19.6
M11-130058	18.8	18.2	17.9	17.0	19.8	21.3
M11-131044	17.6	17.9	16.4	17.1	17.9	18.8
Pioneer 91M10	19.0	17.7	18.8	17.3	19.7	21.5
ND12-18749	19.7	18.3	18.4	18.1	20.3	23.3
ND13-4653	18.6	17.3	17.4	18.3	19.3	20.9
ND13-6213	18.1	18.3	17.0	16.3	18.4	20.3
ND13-7649	18.2	16.4	16.6	16.2	20.3	21.4
ND13-7728	16.9	15.9	16.0	15.4	18.1	19.1
ND13-7810	16.1	15.6	15.4	15.4	16.6	17.4
OAC 14-07C	22.0	20.5	19.2	19.9	24.2	26.2
OAC 14-12C	20.3	18.8	17.8	17.7	22.3	25.0

PRELIMINARY TEST 0, 2016

SEED QUALITY (score)

Strain	Mean 5 Tests	Morris MN	Rose- mount MN	Cassel- ton ND	Elora ONT	Wood- stock ONT
Sheyenne (0)	2.5	2.0	2.0	2.0	2.0	4.5
MN0095 (E)	1.6	2.0	1.5	1.0	1.5	2.0
MN0606CN (SCN)	1.8	1.5	2.0	1.0	2.0	2.5
MN1410 (I)	1.4	2.0	1.0	1.0	1.5	1.5
M07-340083	1.8	2.0	1.5	2.0		
M10-198005	1.8	1.5	1.5	1.0	2.5	2.5
M10-198059	3.0	3.0	2.5	2.0	2.5	5.0
M10-200119	2.2	2.5	2.0	2.0	1.5	3.0
M10-207126	3.3	3.5	2.5	3.0	2.5	5.0
M10-218053	1.7	2.0	1.5	1.0	1.5	2.5
M10-218069	1.7	2.0	1.0	1.0	1.5	3.0
M10-249014	1.8	2.0	1.5	1.0	1.5	3.0
M10-249028	2.1	2.5	2.0	1.0	2.0	3.0
M10-268096	1.9	2.0	1.0	1.0	2.0	3.5
M11-120121	1.7	2.0	2.0	1.0	1.5	2.0
M11-124006	2.5	2.0	1.5	2.0	2.0	5.0
M11-130013	2.1	2.5	1.5	1.0	1.5	4.0
M11-130058	2.1	1.5	1.5	1.0	2.0	4.5
M11-131044	1.7	2.5	1.5	1.0	1.5	2.0
Pioneer 91M10	1.6	1.5	1.5	1.0	1.5	2.5
ND12-18749	1.8	1.5	1.5	1.0	1.5	3.5
ND13-4653	2.1	1.5	1.5	3.0	1.5	3.0
ND13-6213	2.1	3.0	1.5	1.0	1.5	3.5
ND13-7649	2.0	2.0	2.0	1.0	2.0	3.0
ND13-7728	2.8	2.5	2.5	2.0	2.0	5.0
ND13-7810	1.7	1.5	2.0	1.0	1.5	2.5
OAC 14-07C	2.1	2.0	1.5	1.0	2.0	4.0
OAC 14-12C	1.4	1.5	1.5	1.0	1.5	1.5

PRELIMINARY TEST 0, 2016

PROTEIN (%)

Strain	Mean 5 Tests	Morris MN	Rose- mount MN	Cassel- ton ND	Elora ONT	Wood- stock ONT
Sheyenne (0)	37.2	35.4	36.0	32.7	41.0	40.7
MN0095 (E)	37.6	35.7	35.9	32.0	42.3	42.0
MN0606CN (SCN)	38.7	36.0	36.6	35.4	43.3	42.1
MN1410 (I)	39.1	36.0	37.7	34.5	43.8	43.6
M07-340083	36.1	36.1	37.1	35.0		
M10-198005	38.8	35.4	36.7	35.7	43.2	43.2
M10-198059	39.4	36.9	37.3	35.0	44.3	43.8
M10-200119	39.5	36.6	38.5	35.8	43.5	43.1
M10-207126	39.2	36.8	36.9	35.3	43.1	43.9
M10-218053	39.1	36.0	37.5	34.5	43.3	44.3
M10-218069	39.3	36.4	36.8	35.0	44.2	44.0
M10-249014	39.0	36.6	37.2	34.3	43.4	43.5
M10-249028	38.8	36.6	37.4	34.5	42.2	43.3
M10-268096	38.4	36.0	36.4	34.2	42.6	42.9
M11-120121	39.0	36.8	37.9	34.2	43.4	42.5
M11-124006	39.6	37.0	36.7	34.9	43.7	45.6
M11-130013	37.7	35.2	36.7	33.8	41.4	41.6
M11-130058	38.1	35.2	36.4	34.2	41.5	43.2
M11-131044	40.9	38.0	39.0	37.9	44.4	45.0
Pioneer 91M10	38.9	36.5	38.1	34.6	42.2	43.2
ND12-18749	40.5	38.4	39.1	35.2	43.9	45.9
ND13-4653	37.8	35.0	35.6	37.6	39.9	40.8
ND13-6213	36.4	35.3	35.3	31.9	39.6	40.1
ND13-7649	36.4	34.0	35.1	31.8	40.8	40.4
ND13-7728	38.2	35.7	37.3	33.6	42.0	42.5
ND13-7810	36.9	34.5	35.5	33.1	40.4	40.9
OAC 14-07C	39.3	36.6	37.2	34.9	43.4	44.4
OAC 14-12C	38.1	36.1	36.7	33.7	41.8	42.1

PRELIMINARY TEST 0, 2016

OIL (%)

Strain	Mean 5 Tests	Morris MN	Rose- mount MN	Cassel- ton ND	Elora ONT	Wood- stock ONT
Sheyenne (0)	19.5	18.5	18.2	18.4	20.8	21.4
MN0095 (E)	19.6	19.1	18.6	18.2	20.7	21.5
MN0606CN (SCN)	19.0	18.4	18.1	17.1	20.2	21.2
MN1410 (I)	19.2	18.9	18.4	17.6	20.3	20.7
M07-340083	18.1	18.9	18.2	17.1		
M10-198005	19.1	19.3	18.7	17.1	19.9	20.5
M10-198059	19.2	18.8	18.6	18.3	19.9	20.5
M10-200119	18.7	18.4	17.7	16.9	20.0	20.6
M10-207126	18.6	18.2	17.6	17.1	19.7	20.3
M10-218053	19.1	18.7	18.3	17.5	20.4	20.6
M10-218069	18.5	18.1	17.5	16.9	19.6	20.4
M10-249014	19.4	18.9	18.6	18.0	20.6	21.0
M10-249028	19.6	18.9	18.8	18.3	20.9	21.0
M10-268096	19.5	19.4	19.2	17.5	20.6	21.1
M11-120121	19.1	18.3	17.6	17.5	20.5	21.4
M11-124006	19.2	18.5	18.5	18.2	20.5	20.4
M11-130013	19.4	18.9	18.4	17.9	20.6	21.1
M11-130058	18.9	18.7	18.6	16.7	20.2	20.6
M11-131044	18.2	18.0	17.6	16.1	19.5	20.0
Pioneer 91M10	18.9	18.7	18.2	16.9	20.1	20.6
ND12-18749	18.4	17.9	17.5	17.0	19.7	19.7
ND13-4653	19.4	19.1	18.6	16.8	20.9	21.5
ND13-6213	20.7	19.7	19.7	19.1	22.2	22.7
ND13-7649	20.2	19.7	19.0	18.5	21.4	22.3
ND13-7728	19.1	18.5	17.8	18.1	20.4	20.9
ND13-7810	19.5	18.8	18.4	17.6	20.9	21.7
OAC 14-07C	18.5	18.4	18.0	16.6	19.5	20.1
OAC 14-12C	19.5	18.9	18.4	18.0	20.7	21.6

UNIFORM TEST I, 2016

Ent.	Strain	Parentage	Seed Source	Previous Testing	Gen. Comp.	Unique Traits
1	MN1410 (I)	Unknown	Lorenz	11	F5	
2	IA1022 (SCN)	Dairyland 98822 x A00-711024	Fehr	10	F5	SCN
3	Sheyenne (0)	Pioneer 9071 x A96-492041	Helms	9	F4	Rps1-c
4	U11-917032	LD02-4485 x U03-100612	Graef	2	F6	SCN HR, MR
5	M07-209037	M90-18411 x MN0606CN	Lorenz	SCNUTI	F5	SCN, PI 88788
6	M07-278122	M00-110002 x Sheyenne	Lorenz	2	F5	
7	M09-223022	MS05-112002 x MS05-119006	Lorenz	PTI	F5	IDC
8	M09-240047	M03-163106 x OAC06-32	Lorenz	PTI	F5	Phyto
9	M09-278026	M90-184111 x E06936	Lorenz	SCNPTI	F5	SCN, PI 88788
10	M09-305139	M01-315029 x OAC05-17	Lorenz	PTI	F5	Oil
11	M09-343025	MN1410 x M03-381022	Lorenz	PTI	F5	Diversity
12	M09-525033	MN0302 x MS05-143003	Lorenz	PT0	F5	IDC
13	OAC 12-86C	OAC 01-26 x A05-112034	Rajcan	1	F5	
14	ORC 3713N	Starfield x SC 2307	Eskandari	PTI	F5	SCN, PI 88788
15	ORC 7512N	SV 90-03MFA x HD Goshen	Eskandari	PTI	F5	SCN, PI 88788

UNIFORM TEST I, 2016

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	IDC Score		Shattering Score	SDS Data
		Lamber-ton	Waseca	Man-hattan	Monmouth IL DX Rank
MN1410 (I)	WGTIYBfi	3.7	3.7	5.0	0.2
IA1022 (SCN)	PGTSYYI	4.5	4.5	5.0	0.2
Sheyenne (0)	PGTSYYI	3.5	3.5	4.0	0.0
U11-917032	PTBIYBI	4.3	4.3	1.0	0.0
M07-209037	WGTSYYI	3.2	3.2	3.0	3.4
M07-278122	WGTIYYI	4.8	4.8	4.0	0.6
M09-223022	WTBSYBI	4.3	4.3	2.0	0.1
M09-240047	PGTSYBfi	3.5	3.5	3.0	4.7
M09-278026	W+PGB+TIYYI	4.7	4.7	4.0	0.1
M09-305139	WTBIYBrI	4.5	4.5	5.0	6.9
M09-343025	P+WTBSYBI	4.2	4.2	4.0	4.4
M09-525033	PGTDYYI	4.8	4.8	5.0	1.0
OAC 12-86C	PGTIYYI	4.8	4.8	4.0	0.0
ORC 3713N	PGTDYYI	4.5	4.5	3.0	10.0
ORC 7512N	PGTSYYI	4.7	4.7	2.0	0.0
				Mean	1.8
				P>F	0.0125
				LSD	5.0

UNIFORM TEST I, 2016

REGIONAL SUMMARY

No. of Tests Strain	Yield 15 bu/a	Rank 15 No.	Maturity 14 Date	Lodging 14 Score	Plant Height 13 In.	Seed Size 13 g/100	Seed Quality 12 Score	Composition Protein 8 %	Oil 8 %
MN1410 (I)	64.5	11	9/20	1.9	37	18.8	1.6	39.5	19.9
IA1022 (SCN)	66.8	2	2.1	2.1	37	17.3	1.4	36.4	21.1
Sheyenne (O)	56.3	15	-3.3	1.6	35	17.5	2.4	37.8	20.4
U11-917032	69.3	1	1.3	2.2	35	18.0	1.5	37.4	20.7
M07-209037	66.8	4	0.5	2.3	37	17.6	1.9	36.8	20.4
M07-278122	60.6	9	-1.0	2.0	38	17.0	1.6	38.7	19.4
M09-223022	59.0	8	1.0	1.5	35	19.5	1.8	38.3	19.9
M09-240047	60.0	12	-1.2	2.0	38	17.2	1.4	37.7	20.5
M09-278026	66.0	3	0.5	2.2	41	16.0	1.6	37.9	20.0
M09-305139	59.3	14	-0.3	2.4	39	18.1	1.6	37.2	21.1
M09-343025	63.2	10	3.2	2.3	40	16.1	1.4	39.0	20.1
M09-525033	56.0	13	-0.9	1.7	40	20.8	2.3	39.2	19.9
OAC 12-86C	65.3	6	2.6	1.8	37	19.7	1.6	39.7	19.1
ORC 3713N	69.8	5	2.0	1.8	41	20.4	1.5	37.7	20.8
ORC 7512N	62.9	7	-0.5	1.7	33	20.3	1.6	40.0	19.1
Mean	61.8			2.0	37.7	17.6	1.6		
C.V. (%)	11.4			30.4	8.3	7.2	28.4		
L.S.D. (5%)	3.2			0.3	1.5	0.8	0.3		

120.3 Days After Planting

UNIFORM TEST I, 2016

2015-2016 2-Year Mean

No. of Tests Strain	Yield 29 bu/a	Rank 29 No.	Maturity 27 Date	Lodging 27 Score	Plant Height 26 In.	Seed Size 25 g/100	Seed Quality 23 Score	Composition Protein 15 %	Oil 15 %
MN1410 (I)	63.8	4	9/18	1.8	36	17.9	1.6	39.1	20.2
IA1022 (SCN)	66.2	2	3.5	1.9	34	16.6	1.6	35.9	21.4
Sheyenne (O)	54.1	6	-5.1	1.5	32	16.8	2.2	37.8	20.3
U11-917032	68.3	1	3.4	1.9	33	17.3	1.6	36.8	21.0
M07-278122	61.8	5	-1.5	1.7	36	15.7	1.6	37.6	19.6
OAC 12-86C	65.0	3	4.5	1.6	35	19.1	1.6	39.2	19.4

120.3 Days After Planting

2014-2016 3-Year Mean

No. of Tests Strain	40	40	37	37	35	33	29	21	21
MN1410 (I)	62.3	3	9/20	0.5	35	18.3	1.6	38.2	19.7
IA1022 (SCN)	64.6	2	3.5	1.9	33	17.0	1.5	35.2	20.8
Sheyenne (O)	52.2	5	-4.8	1.4	30	17.0	2.2	37.0	19.6
U11-917032	66.7	1	3.4	2.0	32	17.5	1.8	36.0	20.4
M07-278122	61.4	4	-1.4	1.7	35	15.9	1.6	36.5	19.1

121.1 Days After Planting

UNIFORM TEST I, 2016

YIELD (bu/a)

Strain	Mean 15 Tests	Boone County IA	Kanawha IA	Wanatah IN	West Lafayette IN	East Lansing MI	Saginaw MI	Lamber- ton MN
MN1410 (I)	64.5	53.5	70.6	57.1	48.0	56.7	67.9	64.4
IA1022 (SCN)	66.8	66.5	66.9	65.3	48.6	67.2	70.8	63.0
Sheyenne (0)	56.3	39.5	58.0	43.8	47.0	50.5	55.1	51.6
U11-917032	69.3	68.7	69.7	66.2	56.4	64.7	73.8	58.8
M07-209037	66.8	63.4	65.8	60.2	53.7	78.5	72.6	67.4
M07-278122	60.6	54.5	62.7	58.3	51.6	57.4	61.8	58.4
M09-223022	59.0	55.8	65.1	56.9	49.5	44.4	61.8	59.4
M09-240047	60.0	44.0	66.0	54.7	46.9	49.2	55.5	59.0
M09-278026	66.0	66.1	67.9	55.3	58.1	65.5	73.0	69.7
M09-305139	59.3	43.3	59.2	48.6	42.5	51.7	62.9	58.9
M09-343025	63.2	54.1	63.4	63.9	45.5	56.9	65.6	50.8
M09-525033	56.0	43.6	54.0	51.5	44.1	55.2	62.1	53.4
OAC 12-86C	65.3	58.7	64.0	72.4	53.4	58.4	62.2	75.3
ORC 3713N	69.8	62.9	65.1	69.1	59.4	74.2	81.4	69.2
ORC 7512N	62.9	56.8	69.2	67.1	59.1	51.9	67.6	66.9
Location Mean		55.4	64.5	59.4	50.9	58.8	66.3	61.7
C.V. (%)		5.3	5.8	8.9	14.2	11.8	8.0	14.4
L.S.D. (5%)		4.4	8.0	8.8	12.1	18.3	14.0	15.2
Row Sp. (In.)		30	30	30	30	30	15	30
Rows/Plot		4	4	4	4	4	6	4
Reps		2	2	3	3	2	2	3

UNIFORM TEST I, 2016

YIELD (bu/a)

Strain	Waseca MN	Cotes- field NE	Mead NE	Worms NE	Ridge- town ONT	St. Pauls ONT	Wood- Stock ONT	Saint Hyacinthe QUE
MN1410 (I)	56.4	96.1	73.1	87.3	56.0	47.4	52.9	80.4
IA1022 (SCN)	64.2	91.4	64.5	83.2	69.3	51.7	58.1	71.2
Sheyenne (0)	51.5	80.0	64.5	79.0	56.8	56.8	49.5	60.7
U11-917032	64.8	101.0	77.5	84.6	70.2	55.0	56.6	72.1
M07-209037	60.9	93.0	62.8	83.5	73.9	46.2	48.1	72.2
M07-278122	39.9	83.8	54.0	88.2	54.4	54.1	59.7	70.0
M09-223022	44.9	81.4	72.4	80.4	54.7	48.9	43.5	66.4
M09-240047	49.6	86.9	71.7	88.9	53.6	49.7	55.3	69.3
M09-278026	57.8	83.0	78.6	82.7	70.3	49.1	47.9	65.7
M09-305139	57.0	72.8	70.3	87.3	59.4	54.8	55.1	65.1
M09-343025	54.8	97.2	59.3	88.0	62.3	53.5	54.2	77.8
M09-525033	47.0	71.6	57.2	78.8	56.3	42.1	51.7	72.0
OAC 12-86C	47.5	84.3	70.1	88.0	61.6	52.2	62.3	69.1
ORC 3713N	56.9	92.0	74.1	93.4	77.3	56.0	53.7	62.1
ORC 7512N	44.0	78.9	63.7	79.9	70.5	52.0	50.9	65.8
Location Mean	53.1	86.2	67.6	84.9	63.1	51.3	53.3	69.3
C.V. (%)	9.3	6.9	12.8	6.7	7.2	13.6	8.9	7.7
L.S.D. (5%)	8.3	14.8	23.9	14.1	6.3	11.7	7.9	9.0
Row Sp. (In.)	30	30	30	30	17	14	14	14
Rows/Plot	4	4	4	4	5	4	4	4
Reps	3	2	2	2	3	3	3	3

UNIFORM TEST I, 2016

YIELD RANK

Strain	Yield Rank	Boone County IA	Kanawha IA	Wanatah IN	West Lafayette IN	East Lansing MI	Saginaw MI	Lambert- ton MN
MN1410 (I)	11	11	1	9	10	9	6	6
IA1022 (SCN)	2	2	5	5	9	3	5	7
Sheyenne (0)	15	15	14	15	11	13	15	14
U11-917032	1	1	2	4	4	5	2	11
M07-209037	4	4	7	7	5	1	4	4
M07-278122	9	9	12	8	7	7	12	12
M09-223022	8	8	8	10	8	15	12	8
M09-240047	12	12	6	12	12	14	14	9
M09-278026	3	3	4	11	3	4	3	2
M09-305139	14	14	13	14	15	12	9	10
M09-343025	10	10	11	6	13	8	8	15
M09-525033	13	13	15	13	14	10	11	13
OAC 12-86C	6	6	10	1	6	6	10	1
ORC 3713N	5	5	9	2	1	2	1	3
ORC 7512N	7	7	3	3	2	11	7	5

UNIFORM TEST I, 2016

MATURITY (date)

Strain	Mean 14 Tests	Boone County IA	Kanawha IA	Wanatah IN	West Lafayette IN	East Lansing MI	Saginaw MI	Lambert- ton MN
MN1410 (I)	9/20	9/13	9/12	9/8	9/6	9/27	9/25	9/23
IA1022 (SCN)	2	5	-7	6	0	-3	-3	5
Sheyenne (0)	-3	-10	7	-1	-2	12	4	-11
U11-917032	1	6	-6	9	2	-3	3	5
M07-209037	0	3	-4	5	1	-5	1	5
M07-278122	-1	-4	2	1	-1	3	3	1
M09-223022	1	2	-1	7	2	4	2	2
M09-240047	-1	-5	3	-1	-3	10	2	-4
M09-278026	1	2	-4	7	1	-5	-1	2
M09-305139	-0	-5	3	3	1	6	5	-0
M09-343025	3	6	-9	10	6	-4	-3	4
M09-525033	-1	-5	3	-1	1	4	4	-2
OAC 12-86C	3	5	-6	11	6	-5	-3	6
ORC 3713N	2	1	-6	8	1	-8	-4	7
ORC 7512N	-0	2	1	3	0	-1	1	1
Date Planted	5/22	5/15	5/5	5/23	5/22	5/17	5/23	5/23
Days to Mature	120	121	130	108	107	133	125	123

UNIFORM TEST I, 2016

YIELD RANK

Strain	Waseca MN	Cotes- field NE	Mead NE	Worms NE	Ridge- town ONT	St. Pauls ONT	Wood- Stock ONT	Saint Hyacinthe QUE
MN1410 (I)	7	3	4	7	12	13	9	1
IA1022 (SCN)	2	6	10	10	6	9	3	6
Sheyenne (0)	9	12	10	14	10	1	12	15
U11-917032	1	1	2	8	5	3	4	4
M07-209037	3	4	12	9	2	14	13	3
M07-278122	15	9	15	3	14	5	2	7
M09-223022	13	11	5	12	13	12	15	10
M09-240047	10	7	6	2	15	10	5	8
M09-278026	4	10	1	11	4	11	14	12
M09-305139	5	14	7	7	9	4	6	13
M09-343025	8	2	13	5	7	6	7	2
M09-525033	12	15	14	15	11	15	10	5
OAC 12-86C	11	8	8	5	8	7	1	9
ORC 3713N	6	5	3	1	1	2	8	14
ORC 7512N	14	13	11	13	3	8	11	11

UNIFORM TEST I, 2016

MATURITY (date)

Strain	Waseca MN	Cotes- field NE	Mead NE	Worms NE	Ridge- town ONT	St. Pauls ONT	Wood- Stock ONT	Saint Hyacinthe QUE
MN1410 (I)	9/24		9/17	9/15	9/25	9/30	9/29	9/28
IA1022 (SCN)	5		6	6	2	0	2	3
Sheyenne (0)	-8		-6	-5	-7	-8	-6	-5
U11-917032	3		3	4	-5	-2	-2	2
M07-209037	2		1	7	-2	1	-3	-5
M07-278122	1		-2	-3	-4	-3	-3	-3
M09-223022	-0		0	-2	-3	-2	4	0
M09-240047	-4		-3	-2	-2	-2	-5	-2
M09-278026	0		0	-1	4	-2	0	3
M09-305139	-1		0	1	-4	-9	-3	0
M09-343025	7		3	8	6	1	3	5
M09-525033	-3		-6	-2	-2	-4	-5	6
OAC 12-86C	6		4	4	3	0	3	1
ORC 3713N	8		6	8	4	-1	3	1
ORC 7512N	1		-2	-1	0	-4	-2	-4
Date Planted	6/2		6/3	6/1	5/27	5/20	5/26	5/20
Days to Mature	114		106	106	121	133	126	131

UNIFORM TEST I, 2016

LODGING (score)

Strain	Mean 14 Tests	Boone County IA	Kanawha IA	Wanatah IN	West Lafayette IN	East Lansing MI	Saginaw MI	Lamber- ton MN
MN1410 (I)	1.9	2.0	3.0	1.0	1.8	3.0	1.0	1.7
IA1022 (SCN)	2.1	2.0	3.0	1.5	1.3	2.5	1.5	2.3
Sheyenne (O)	1.6	1.0	2.5	1.0	1.5	3.0	1.0	1.3
U11-917032	2.2	2.5	2.3	1.7	2.5	3.5	1.0	2.0
M07-209037	2.3	2.5	2.8	2.0	1.5	3.5	1.5	2.0
M07-278122	2.0	2.0	2.5	1.2	1.8	3.5	1.0	2.0
M09-223022	1.5	1.0	2.0	1.0	1.2	2.0	1.0	1.7
M09-240047	2.0	1.0	3.0	1.0	1.8	3.5	1.0	2.0
M09-278026	2.2	3.0	3.0	1.3	1.8	3.0	1.0	2.3
M09-305139	2.4	1.5	3.0	2.3	3.3	3.5	1.0	1.7
M09-343025	2.3	2.0	2.8	2.2	3.5	3.0	2.0	1.3
M09-525033	1.7	1.0	2.3	1.0	2.0	3.0	1.0	1.7
OAC 12-86C	1.8	1.0	2.0	2.2	2.3	1.5	1.0	1.7
ORC 3713N	1.8	1.0	2.5	1.0	2.3	2.0	2.0	1.7
ORC 7512N	1.7	1.0	2.3	1.0	1.2	3.5	1.0	1.7

UNIFORM TEST I, 2016

PLANT HEIGHT (inches)

Strain	Mean 13 Tests	Boone County IA	Kanawha IA	Wanatah IN	West Lafayette IN	East Lansing MI	Saginaw MI	Lamber- ton MN
MN1410 (I)	37	34	39	35	36	36	36	37
IA1022 (SCN)	37	36	36	36	36	35	35	39
Sheyenne (O)	35	28	28	33	35	32	33	33
U11-917032	35	33	37	34	36	35	32	33
M07-209037	37	33	32	35	37	37	33	35
M07-278122	38	35	35	37	37	37	36	39
M09-223022	35	32	33	32	35	31	34	36
M09-240047	38	32	36	38	40	34	36	38
M09-278026	41	36	40	38	39	39	41	40
M09-305139	39	34	29	39	39	36	37	34
M09-343025	40	35	44	41	42	36	39	33
M09-525033	40	36	39	39	39	40	37	39
OAC 12-86C	37	34	36	40	42	32	32	36
ORC 3713N	41	40	40	42	45	37	40	41
ORC 7512N	33	27	28	31	31	31	35	29

UNIFORM TEST I, 2016

LODGING (score)

Strain	Waseca MN	Cotes- field NE	Mead NE	Worms NE	Ridge- town ONT	St. Pauls ONT	Wood- Stock ONT	Saint Hyacinthe QUE
MN1410 (I)	2.7		2.5	2.0	1.3	1.0	1.2	2.3
IA1022 (SCN)	3.3		2.0	2.0	2.3	1.0	1.2	3.0
Sheyenne (0)	2.7		2.5	1.5	1.0	1.0	1.0	2.0
U11-917032	3.7		2.0	1.5	2.3	1.0	1.5	3.7
M07-209037	3.7		2.5	2.0	3.7	1.0	1.5	2.0
M07-278122	3.3		2.0	1.5	2.3	1.0	1.0	2.3
M09-223022	3.3		1.0	1.0	1.0	1.0	1.3	2.7
M09-240047	3.0		2.5	2.0	2.3	1.0	1.7	2.7
M09-278026	3.0		3.0	2.0	1.3	1.3	1.2	3.7
M09-305139	3.7		4.0	2.0	3.0	1.3	1.7	1.7
M09-343025	3.7		3.0	2.5	1.0	1.3	1.5	2.3
M09-525033	3.0		1.5	2.0	1.0	1.0	1.0	2.3
OAC 12-86C	3.0		2.5	2.0	1.0	1.0	1.3	3.0
ORC 3713N	3.0		2.0	1.5	1.0	1.0	1.2	2.7
ORC 7512N	2.7		2.0	1.0	3.0	1.0	1.2	2.0

UNIFORM TEST I, 2016

PLANT HEIGHT (inches)

Strain	Waseca MN	Cotes- field NE	Mead NE	Worms NE	Ridge- town ONT	St. Pauls ONT	Wood- Stock ONT	Saint Hyacinthe QUE
MN1410 (I)	40		40		42	35	33	40
IA1022 (SCN)	40		40		43	35	36	38
Sheyenne (0)	36		40		39	37	36	39
U11-917032	37		36		41	29	32	37
M07-209037	42		37		44	36	31	42
M07-278122	43		42		46	38	35	41
M09-223022	39		39		43	33	31	43
M09-240047	41		44		47	37	38	41
M09-278026	44		44		49	40	33	44
M09-305139	38		46		48	44	37	45
M09-343025	41		42		47	40	41	41
M09-525033	43		43		48	38	37	45
OAC 12-86C	36		42		47	38	36	35
ORC 3713N	45		45		53	35	37	37
ORC 7512N	30		35		42	33	34	44

UNIFORM TEST I, 2016

SEED SIZE (g/100)

Strain	Mean 13 Tests	Boone County IA	Kanawha IA	Wanatah IN	West Lafayette IN	East Lansing MI	Saginaw MI	Lamber- ton MN
MN1410 (I)	18.8	15.6	15.0	17.0	17.6	20.2		17.2
IA1022 (SCN)	17.3	13.8	13.9	15.4	15.3	20.2		16.6
Sheyenne (O)	17.5	14.5	14.4	16.3	18.0	18.1		16.3
U11-917032	18.0	14.5	13.7	15.7	16.5	21.4		18.3
M07-209037	17.6	15.1	14.0	16.4	15.7	20.3		17.0
M07-278122	17.0	13.1	13.0	14.0	14.8	18.1		21.3
M09-223022	19.5	16.7	17.8	17.7	18.3	20.5		18.2
M09-240047	17.2	14.8	14.4	15.0	16.4	17.8		15.1
M09-278026	16.0	13.6	12.5	13.8	15.1	17.7		15.8
M09-305139	18.1	14.8	14.3	15.8	16.9	18.2		15.7
M09-343025	16.1	12.5	12.5	14.5	13.5	17.4		15.0
M09-525033	20.8	18.4	16.7	18.2	19.9	23.9		18.5
OAC 12-86C	19.7	15.9	15.9	19.0	19.8	21.6		18.6
ORC 3713N	20.4	16.2	16.8	20.1	19.9	25.0		19.3
ORC 7512N	20.3	16.9	17.6	19.5	20.5	23.4		18.5

UNIFORM TEST I, 2016

SEED QUALITY (score)

Strain	Mean 12 Tests	Boone County IA	Kanawha IA	Wanatah IN	West Lafayette IN	East Lansing MI	Saginaw MI	Lamber- ton MN
MN1410 (I)	1.6	2.0	1.0	1.5	2.0			2.0
IA1022 (SCN)	1.4	2.0	1.0	1.0	1.5			2.3
Sheyenne (O)	2.4	3.0	3.0	3.5	3.0			3.0
U11-917032	1.5	1.5	1.0	1.0	2.0			1.7
M07-209037	1.9	2.5	2.0	1.5	2.0			1.3
M07-278122	1.6	2.0	1.0	1.5	2.0			1.0
M09-223022	1.8	2.0	2.0	2.0	3.0			1.3
M09-240047	1.4	1.5	1.0	1.5	1.5			1.0
M09-278026	1.6	2.0	2.0	1.5	1.0			1.3
M09-305139	1.6	2.0	1.0	1.5	1.5			1.7
M09-343025	1.4	2.5	1.0	1.0	1.0			1.3
M09-525033	2.3	3.0	2.0	2.0	3.5			2.0
OAC 12-86C	1.6	2.0	1.0	1.0	1.5			2.0
ORC 3713N	1.5	1.5	1.0	1.0	1.5			1.3
ORC 7512N	1.6	2.0	1.0	1.5	1.5			1.0

UNIFORM TEST I, 2016

SEED SIZE (g/100)

Strain	Waseca MN	Cotes- field NE	Mead NE	Worms NE	Ridge- town ONT	St. Pauls ONT	Wood- Stock ONT	Saint Hyacinthe QUE
MN1410 (I)	16.2	19.7	18.4		20.9	23.5	22.7	20.6
IA1022 (SCN)	15.4	17.8	15.0		19.8	22.1	21.0	18.8
Sheyenne (0)	16.6	18.3	17.7		18.6	21.3	18.9	18.5
U11-917032	16.3	18.9	16.8		19.2	21.4	21.0	19.8
M07-209037	15.5	17.8	15.7		20.6	22.5	21.0	17.0
M07-278122	20.2	16.1	13.8		16.4	18.5	19.2	22.6
M09-223022	18.7	20.0	18.4		21.2	23.5	22.7	19.6
M09-240047	15.3	16.5	15.2		19.2	22.0	21.7	19.6
M09-278026	14.8	16.1	15.3		17.6	19.6	18.7	17.3
M09-305139	16.5	20.3	18.2		19.8	21.4	21.3	22.0
M09-343025	14.7	16.1	14.2		17.8	19.8	19.6	21.8
M09-525033	17.9	22.4	18.5		23.1	26.1	24.2	22.8
OAC 12-86C	18.2	19.7	18.8		21.1	22.2	23.2	21.7
ORC 3713N	20.3	20.1	19.2		23.4	22.7	24.1	18.1
ORC 7512N	17.4	22.5	17.9		24.7	23.6	24.5	17.0

UNIFORM TEST I, 2016

SEED QUALITY (score)

Strain	Waseca MN	Cotes- field NE	Mead NE	Worms NE	Ridge- town ONT	St. Pauls ONT	Wood- Stock ONT	Saint Hyacinthe QUE
MN1410 (I)	1.0	1.0	1.0		1.0	2.0	1.5	3.0
IA1022 (SCN)	1.0	1.0	1.0		1.0	1.5	1.5	2.2
Sheyenne (0)	1.3	1.0	1.0		1.0	2.5	3.0	3.0
U11-917032	1.0	1.0	1.0		1.0	1.5	2.0	3.0
M07-209037	1.7	2.0	2.0		1.0	2.0	2.5	2.3
M07-278122	1.3	1.0	1.0		1.0	1.5	2.5	2.8
M09-223022	1.0	1.0	1.0		1.0	1.5	2.5	3.0
M09-240047	1.0	1.0	1.0		1.0	1.5	2.0	2.8
M09-278026	1.0	1.0	2.0		1.0	1.5	2.0	3.0
M09-305139	1.0	1.0	1.0		1.0	2.5	2.5	2.0
M09-343025	1.3	1.0	2.0		1.0	1.5	1.5	2.2
M09-525033	2.0	2.0	2.0		1.0	2.0	4.0	2.0
OAC 12-86C	1.0	2.0	2.0		1.0	1.5	1.5	2.2
ORC 3713N	1.0	2.0	1.0		1.0	1.5	2.0	2.8
ORC 7512N	1.3	2.0	2.0		1.0	1.5	1.5	3.0

UNIFORM TEST I, 2016

PROTEIN (%)

Strain	Mean 8 Tests	West Lafayette IN	Lamber- ton MN	Waseca MN	Mead NE	Ridge- town ONT	St Pauls ONT	Wood- stock ONT	Saint Hyacinthe QUE
MN1410 (I)	39.5	36.1	36.5	34.4	36.9	42.6	44.3	43.6	41.7
IA1022 (SCN)	36.4	33.4	33.5	32.3	32.7	40.2	40.6	39.9	38.1
Sheyenne (O)	37.8	36.2	35.6	33.7	34.9	41.1	41.8	40.0	39.3
U11-917032	37.4	34.4	35.7	33.4	33.7	41.5	41.2	40.1	39.1
M07-209037	36.8	34.3	35.0	32.4	32.6	39.7	41.6	40.4	38.4
M07-278122	38.7	33.8	41.8	39.4	33.9	40.0	41.8	40.0	39.2
M09-223022	38.3	35.6	36.0	34.0	34.8	41.6	42.2	42.1	40.2
M09-240047	37.7	35.3	35.2	33.5	34.7	41.6	42.4	41.5	37.1
M09-278026	37.9	34.9	34.9	33.3	34.1	41.7	42.5	41.2	40.6
M09-305139	37.2	34.5	33.7	32.1	35.3	40.1	40.7	39.9	40.9
M09-343025	39.0	35.3	36.3	34.5	34.9	42.5	43.9	42.8	41.7
M09-525033	39.2	36.5	36.7	35.5	35.9	42.8	44.1	42.4	39.5
OAC 12-86C	39.7	36.8	37.0	35.3	36.4	42.9	43.5	42.9	42.6
ORC 3713N	37.7	34.8	35.9	35.0	34.3	42.7	41.0	40.8	37.4
ORC 7512N	40.0	37.7	36.3	36.1	36.7	44.0	45.1	45.0	39.5

UNIFORM TEST I, 2016

OIL (%)

Strain	Mean 8 Tests	West Lafayette IN	Lamber- ton MN	Waseca MN	Mead NE	Ridge- town ONT	St Pauls ONT	Wood- stock ONT	Saint Hyacinthe QUE
MN1410 (I)	19.9	20.1	18.6	19.0	18.8	21.4	20.3	20.9	20.3
IA1022 (SCN)	21.1	21.7	19.4	20.0	20.3	23.2	21.2	21.8	21.3
Sheyenne (O)	20.4	20.2	18.7	19.2	19.1	23.1	20.9	21.6	20.6
U11-917032	20.7	20.7	18.2	19.3	19.8	23.3	21.5	22.0	20.8
M07-209037	20.4	20.2	18.8	19.5	19.8	23.0	20.7	21.5	19.8
M07-278122	19.4	19.8	15.8	17.0	18.4	22.1	20.5	20.9	20.4
M09-223022	19.9	20.1	18.5	18.7	18.9	22.2	20.5	20.4	20.2
M09-240047	20.5	19.9	18.4	19.1	18.8	23.1	20.7	21.2	22.4
M09-278026	20.0	19.7	18.0	18.6	18.8	22.3	20.5	21.0	21.0
M09-305139	21.1	20.9	19.7	20.3	19.6	23.7	22.0	22.5	20.3
M09-343025	20.1	20.3	18.6	19.3	19.8	22.0	20.3	21.0	19.6
M09-525033	19.9	19.7	18.2	18.5	18.9	22.0	20.4	20.7	20.9
OAC 12-86C	19.1	19.4	17.5	18.1	18.7	20.7	19.8	20.1	18.7
ORC 3713N	20.8	21.5	19.0	19.2	20.0	22.4	21.5	21.6	21.4
ORC 7512N	19.1	19.0	18.2	17.5	18.1	20.8	19.5	19.7	20.1

PRELIMINARY TEST I, 2016

Ent.	Strain	Parentage	Seed Source	Gen. Comp.	Unique Traits
1	MN1410 (I)	Unknown	Lorenz	F5	
2	IA1022 (SCN)	Dairyland 98822 x A00-711024	Fehr	F5	SCN
3	Sheyenne (0)	Pioneer 9071 x A96-492041	Helms	F4	Rps1-c
4	U11-917032	LD02-4485 x U03-100612	Graef	F6	SCN HR, MR
5	AR15-159002	IAR1901 BSR x ND07-4635	Cianzio	F3	BSR
6	AR15-159009	AR2 x ND07-4635	Cianzio	F3	IDC
7	E13304	E09903 x E10928	Wang	F5	
8	M10-171020	A08-151024 x M04-380030	Lorenz	F5	YLD
9	M10-201034	M02-399012 x M04-261038	Lorenz	F5	WILT
10	M10-270004	ND06-25913 x M05-175-1039	Lorenz	F5	Rps8 1c
11	M11-120003	Sheyenne x XP2410	Lorenz	F5	YLD
12	M11-120020	Sheyenne x XP2410	Lorenz	F5	YLD
13	M11-123013	MN1410 x 236FHP	Lorenz	F5	YLD
14	M11-123015	MN1410 x 236FHP	Lorenz	F5	YLD
15	M11-131005	XY2510 x Sheyenne	Lorenz	F5	YLD
16	M11-131015	XY2510 x Sheyenne	Lorenz	F5	YLD
17	M11-131022	XY2510 x Sheyenne	Lorenz	F5	YLD
18	M11-131060	XY2510 x Sheyenne	Lorenz	F5	YLD
19	M11-131119	XY2510 x Sheyenne	Lorenz	F5	YLD
20	M11-132019	XY2510 x MN1410	Lorenz	F5	YLD
21	M11-132044	XY2510 x MN1410	Lorenz	F5	YLD
22	OAC 13-74C-SCN	SC Starfield (SCN) x OAC Prodigy	Rajcan	F5	
23	OAC 14-24C	OAC Wallace x Heinong 50	Rajcan	F5	Diversity (50% Chinese)
24	OAC 14-26C	OAC Wallace x Colby	Rajcan	F5	
25	ORC 3313N	S18-R6 x HD 369	Eskandari	F5	
26	ORC 8015	S18-R6 x OX 802	Eskandari	F5	
27	U14-103005	LG07-2249 x LG07-6944	Graef	F5	Diversity
28	U14-103008	LG07-2249 x LG07-6944	Graef	F5	Diversity
29	U14-103015	LG07-2249 x LG07-6944	Graef	F5	Diversity
30	U14-103022	LG07-2249 x LG07-6944	Graef	F5	Diversity
31	U14-103043	LG07-2249 x LG07-6944	Graef	F5	Diversity
32	U14-211126	06NB204846 x LG05-4354	Graef	F5	Diversity
33	U14-222063	06NB204846 x LG07-9721	Graef	F5	Diversity

PRELIMINARY TEST I, 2016

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	IDC Score		Shattering
		Lamber-ton	Waseca	Score Man-hattan
MN1410 (I)	WGTIYBfI	4.8	4.8	5.0
IA1022 (SCN)	PGTSYYI	4.0	4.0	5.0
Sheyenne (0)	PGTSYYI	4.3	4.3	4.0
U11-917032	PTBIYBI	4.0	4.0	1.0
AR15-159002	PTBIYGI	4.0	4.0	3.0
AR15-159009	PLtBDYLbI	4.5	4.5	2.0
E13304	WTBSYBI	4.5	4.5	5.0
M10-171020	PLtBIYBrI	4.0	4.0	3.0
M10-201034	WTB+TSYBr+BI	3.0	3.0	4.0
M10-270004	WGTSYYI	5.0	5.0	3.0
M11-120003	PTBDYG+YI	5.0	5.0	4.0
M11-120020	PLtBIYLbI	4.8	4.8	5.0
M11-123013	PTBDYBI	4.3	4.3	3.0
M11-123015	WGTIYBfI	5.0	5.0	3.0
M11-131005	WGTSYYI	4.5	4.5	3.0
M11-131015	W+PGTSYYI	4.8	4.8	3.0
M11-131022	WGTIYYI	3.0	3.0	2.0
M11-131060	PGTSYYI	4.8	4.8	3.0
M11-131119	PGTSYYI	3.5	3.5	4.0
M11-132019	WGTIYBfI	4.8	4.8	3.0
M11-132044	WGTIYYI	5.0	5.0	2.0
OAC 13-74C-SCN	PTBSYLbrI	5.0	5.0	1.0
OAC 14-24C	PTBDYY+GI	4.5	4.5	3.0
OAC 14-26C	PGTSYYI	5.0	5.0	3.0
ORC 3313N	WGTDYYI	5.0	5.0	4.0
ORC 8015	PLtBSYY+GI	4.3	4.3	5.0
U14-103005	PLtBDYBI	5.0	5.0	3.0
U14-103008	PGBSYDibI	4.8	4.8	4.0
U14-103015	PGBSYDibI	5.0	5.0	2.0
U14-103022	PTBSYBI	5.0	5.0	2.0
U14-103043	PGBIYDibI	4.3	4.3	3.0
U14-211126	PGB+TIYDibI	4.8	4.8	3.0
U14-222063	WTBIYBI	4.3	4.3	2.0

PRELIMINARY TEST I, 2016

REGIONAL SUMMARY

No. of Tests Strain	Yield 11 bu/a	Rank 11 No.	Maturity 11 Date	Lodging 11 Score	Plant Height 10 In.	Seed Size 11 g/100	Seed Quality 10 Score	Composition	
								Protein 7 %	Oil 7 %
MN1410 (I)	62.2	15	9/19	1.8	37	18.1	1.8	39.1	19.9
IA1022 (SCN)	67.5	3	3.2	2.0	38	16.9	1.7	35.9	20.8
Sheyenne (O)	54.0	31	-4.5	1.7	35	17.1	2.6	37.2	20.3
U11-917032	70.8	1	2.1	2.1	35	18.1	1.8	36.8	20.2
AR15-159002	66.8	5	2.2	1.9	36	18.2	1.9	36.9	20.1
AR15-159009	59.2	22	-0.9	2.0	35	16.2	1.7	36.8	20.2
E13304	54.4	30	-1.7	2.0	39	16.4	1.7	39.2	19.8
M10-171020	63.8	11	-1.7	1.4	35	18.5	1.8	38.7	19.6
M10-201034	57.2	27	-1.0	2.1	42	15.7	1.9	38.8	19.9
M10-270004	57.8	26	3.3	2.7	43	16.1	1.5	37.7	20.7
M11-120003	60.6	21	1.3	2.0	42	16.3	2.1	39.0	19.8
M11-120020	55.1	29	-2.3	1.4	39	18.3	2.1	41.1	19.2
M11-123013	58.1	25	1.0	2.1	39	18.9	1.5	39.7	19.6
M11-123015	61.1	20	1.4	1.5	35	17.7	1.7	40.7	19.5
M11-131005	61.8	17	3.8	1.6	43	17.1	2.0	37.4	19.8
M11-131015	62.6	14	-1.0	1.5	39	18.1	1.8	37.9	19.7
M11-131022	62.2	15	0.6	1.7	38	18.8	1.6	39.2	19.6
M11-131060	61.3	18	-1.5	1.5	35	18.1	1.7	40.4	19.5
M11-131119	58.3	24	-2.2	1.8	40	18.0	1.5	40.3	19.3
M11-132019	63.7	12	1.3	1.6	37	18.0	1.4	39.4	20.0
M11-132044	65.0	7	0.5	1.5	35	18.7	1.4	38.8	19.9
OAC 13-74C-SCN	52.2	32	-4.1	1.2	31	20.0	1.7	37.7	20.4
OAC 14-24C	51.1	33	-4.8	2.0	33	19.9	2.0	38.1	19.8
OAC 14-26C	56.2	28	-4.0	1.8	33	19.5	2.5	37.4	20.2
ORC 3313N	61.3	18	-0.1	1.7	41	22.6	2.1	38.7	19.9
ORC 8015	59.2	22	-0.9	1.5	34	19.7	1.5	39.3	19.6
U14-103005	64.4	9	1.0	1.5	36	17.2	1.6	39.0	19.6
U14-103008	64.1	10	2.5	1.8	37	17.7	1.6	39.1	19.4
U14-103015	67.0	4	2.3	1.5	35	18.2	1.6	38.6	20.1
U14-103022	65.2	6	4.6	1.7	37	16.1	1.5	38.3	20.0
U14-103043	65.0	7	6.1	1.5	39	17.7	1.7	38.2	20.6
U14-211126	63.0	13	5.5	1.8	41	17.1	1.8	38.5	20.7
U14-222063	70.4	2	7.3	1.4	39	18.7	1.6	37.1	20.4
Mean	61.7			1.8	37.4	17.3	1.8		
C.V. (%)	10.6			27.7	7.1	6.3	24.7		
L.S.D. (5%)	3.6			0.3	1.6	0.8	0.3		

120.2 Days After Planting

PRELIMINARY TEST I, 2016

YIELD (bu/a)

Strain	Mean 11 Tests	Boone County IA	Kanawha* IA	West Lafayette IN	East Lansing MI	Lamberton MN	Waseca MN
MN1410 (I)	62.2	47.0	69.2	42.1	45.2	55.1	53.7
IA1022 (SCN)	67.5	63.3	71.0	39.6	71.1	54.3	57.9
Sheyenne (O)	54.0	36.3	53.6	40.8	34.1	43.6	55.0
U11-917032	70.8	69.4	68.1	55.3	65.7	62.2	56.0
AR15-159002	66.8	67.0	74.9	49.0	63.6	51.8	59.8
AR15-159009	59.2	60.0	60.6	45.4	53.3	50.7	41.1
E13304	54.4	42.0	54.7	34.6	48.4	55.2	43.0
M10-171020	63.8	57.2	60.5	51.6	51.0	54.7	49.1
M10-201034	57.2	47.6	54.5	44.3	48.9	51.3	43.0
M10-270004	57.8	52.3	56.1	43.5	47.8	50.5	44.9
M11-120003	60.6	56.3	61.0	48.3	60.8	51.2	47.1
M11-120020	55.1	45.7	59.2	46.2	46.3	44.3	52.2
M11-123013	58.1	58.0	64.0	46.7	45.0	50.9	46.0
M11-123015	61.1	55.0	65.7	49.1	59.2	51.6	52.7
M11-131005	61.8	52.8	67.6	53.4	52.3	52.8	49.6
M11-131015	62.6	50.5	57.3	47.3	52.5	57.3	53.7
M11-131022	62.2	58.8	60.5	49.7	52.8	57.0	56.5
M11-131060	61.3	52.9	63.4	47.0	58.7	53.9	51.1
M11-131119	58.3	47.7	58.5	48.8	45.9	55.0	51.4
M11-132019	63.7	57.8	63.1	45.8	56.9	49.3	52.4
M11-132044	65.0	60.8	62.6	47.7	55.5	57.5	55.4
OAC 13-74C-SCN	52.2	33.2	52.4	47.0	50.8	41.1	39.3
OAC 14-24C	51.1	34.7	48.8	36.8	37.6	40.1	47.1
OAC 14-26C	56.2	42.2	56.9	43.4	47.2	48.6	53.4
ORC 3313N	61.3	54.1	63.2	49.1	52.7	45.8	53.1
ORC 8015	59.2	38.7	61.2	46.2	55.2	47.9	51.7
U14-103005	64.4	56.2	74.7	58.5	60.0	54.4	57.3
U14-103008	64.1	57.5	67.0	54.8	52.2	50.9	52.0
U14-103015	67.0	63.9	71.2	55.1	76.4	49.4	56.8
U14-103022	65.2	63.0	63.4	64.1	65.6	46.6	47.9
U14-103043	65.0	61.8	70.7	54.2	75.5	59.5	51.0
U14-211126	63.0	59.0	27.6	51.2	65.3	45.4	47.7
U14-222063	70.4	67.3	64.0	59.9	68.8	60.6	54.4
Location Mean		53.6	61.4	48.4	55.2	51.5	51.0
C.V. (%)		5.9	15.9	8.6	13.5	13.0	8.0
L.S.D. (5%)		6.5	19.9	8.5	18.2	13.7	8.4
Row Sp. (In.)		30	30	30	30	30	30
Rows/Plot		4	4	4	4	4	4
Reps		2	2	2	2	2	2

*Data not included in the mean.

PRELIMINARY TEST I, 2016

YIELD (bu/a)

Strain	Cotes- field NE	Mead NE	Worms NE	Ridge- town ONT	St Pauls ONT	Saint Hacinthe QUE
MN1410 (I)	94.8	77.1	88.6	54.6	53.5	72.6
IA1022 (SCN)	94.2	78.8	81.6	72.7	57.8	70.7
Sheyenne (0)	76.7	69.2	75.7	50.9	47.9	63.9
U11-917032	95.0	79.9	83.1	72.4	59.4	80.6
AR15-159002	89.9	65.3	90.2	72.8	61.0	64.5
AR15-159009	83.7	69.4	74.2	56.0	50.3	67.2
E13304	76.2	57.6	71.5	56.3	46.3	67.6
M10-171020	91.1	74.5	79.3	63.7	55.9	73.4
M10-201034	70.5	65.0	76.6	63.2	50.1	68.4
M10-270004	83.2	62.4	78.1	57.0	55.4	61.2
M11-120003	80.7	69.7	81.1	52.4	53.0	66.4
M11-120020	74.4	71.0	62.8	55.6	46.7	60.6
M11-123013	82.3	60.5	73.3	55.1	49.0	72.5
M11-123015	87.8	72.5	78.5	56.7	41.6	67.6
M11-131005	90.2	72.0	81.8	49.2	49.3	76.8
M11-131015	88.1	75.6	75.4	62.3	50.8	75.4
M11-131022	85.7	62.5	76.8	64.9	49.2	70.1
M11-131060	84.9	72.2	81.9	64.6	45.0	62.3
M11-131119	70.1	69.7	73.0	66.2	43.7	69.2
M11-132019	91.2	75.3	82.1	59.0	54.5	76.3
M11-132044	88.8	75.8	88.2	77.5	41.4	66.2
OAC 13-74C-SCN	83.4	48.1	67.4	52.1	49.0	63.2
OAC 14-24C	74.9	62.0	66.7	48.0	54.6	59.2
OAC 14-26C	71.7	62.9	68.0	74.1	50.5	56.4
ORC 3313N	86.6	63.0	86.3	70.3	44.8	68.7
ORC 8015	90.6	63.9	82.2	55.7	49.6	69.9
U14-103005	92.4	75.9	72.1	58.2	47.5	75.8
U14-103008	91.4	78.5	86.3	57.1	54.1	70.3
U14-103015	91.0	72.4	86.6	54.4	58.1	73.0
U14-103022	90.8	73.7	74.8	63.6	57.3	69.4
U14-103043	85.6	67.1	81.4	51.0	60.3	68.0
U14-211126	91.1	66.8	79.2	57.9	54.0	75.9
U14-222063	94.2	77.9	87.6	64.7	64.8	73.8
Location Mean	85.6	69.3	78.6	60.3	51.7	69.0
C.V. (%)	6.3	9.4	8.7	7.9	6.0	7.5
L.S.D. (5%)	13.7	16.1	17.4	8.1	6.4	8.4
Row Sp. (In.)	30	30	30	17	14	14
Rows/Plot	4	4	4	5	4	4
Reps	2	2	2	2	3	3

PRELIMINARY TEST I, 2016

YIELD RANK

Strain	Yield Rank	Boone County IA	Kanawha IA	West Lafayette IN	East Lansing MI	Lamberton MN	Waseca MN
MN1410 (I)	15	26	6	29	30	8	10
IA1022 (SCN)	3	5	4	31	3	12	2
Sheyenne (O)	31	31	30	30	33	31	8
U11-917032	1	1	7	4	5	1	6
AR15-159002	5	3	1	14	8	15	1
AR15-159009	22	9	20	25	16	21	32
E13304	30	29	28	33	25	7	30
M10-171020	11	15	21	9	22	10	23
M10-201034	27	25	29	26	24	17	31
M10-270004	26	22	27	27	26	22	29
M11-120003	21	16	19	16	9	18	27
M11-120020	29	27	23	22	28	30	16
M11-123013	25	12	11	21	31	19	28
M11-123015	20	18	10	12	11	16	14
M11-131005	17	21	8	8	20	14	22
M11-131015	14	23	25	18	19	5	11
M11-131022	15	11	22	11	17	6	5
M11-131060	18	20	14	19	12	13	20
M11-131119	24	24	24	15	29	9	19
M11-132019	12	13	16	24	13	24	15
M11-132044	7	8	17	17	14	4	7
OAC 13-74C-SCN	32	33	31	19	23	32	33
OAC 14-24C	33	32	32	32	32	33	26
OAC 14-26C	28	28	26	28	27	25	12
ORC 3313N	18	19	15	12	18	28	13
ORC 8015	22	30	18	22	15	26	18
U14-103005	9	17	2	3	10	11	3
U14-103008	10	14	9	6	21	20	17
U14-103015	4	4	3	5	1	23	4
U14-103022	6	6	13	1	6	27	24
U14-103043	7	7	5	7	2	3	21
U14-211126	13	10	33	10	7	29	25
U14-222063	2	2	12	2	4	2	9

PRELIMINARY TEST I, 2016

YIELD RANK

Strain	Cotes- field NE	Mead NE	Worms NE	Ridge- town ONT	St Pauls ONT	Saint Hacinthe QUE
MN1410 (I)	2	5	2	26	14	10
IA1022 (SCN)	4	2	13	4	6	12
Sheyenne (0)	27	20	22	31	25	27
U11-917032	1	1	8	5	4	1
AR15-159002	14	23	1	3	2	26
AR15-159009	22	19	25	22	18	23
E13304	28	32	29	21	28	21
M10-171020	9	10	16	11	8	8
M10-201034	32	24	21	13	19	19
M10-270004	24	29	19	19	9	30
M11-120003	26	18	15	28	15	24
M11-120020	30	16	33	24	27	31
M11-123013	25	31	26	25	23	11
M11-123015	17	12	18	20	32	21
M11-131005	13	15	12	32	21	2
M11-131015	16	8	23	14	16	6
M11-131022	19	28	20	8	22	14
M11-131060	21	14	11	10	29	29
M11-131119	33	18	27	7	31	17
M11-132019	7	9	10	15	11	3
M11-132044	15	7	3	1	33	25
OAC 13-74C-SCN	23	33	31	29	23	28
OAC 14-24C	29	30	32	33	10	32
OAC 14-26C	31	27	30	2	17	33
ORC 3313N	18	26	7	6	30	18
ORC 8015	12	25	9	23	20	15
U14-103005	5	6	28	16	26	5
U14-103008	6	3	7	18	12	13
U14-103015	10	13	5	27	5	9
U14-103022	11	11	24	12	7	16
U14-103043	20	21	14	30	3	20
U14-211126	9	22	17	17	13	4
U14-222063	4	4	4	9	1	7

PRELIMINARY TEST I, 2016

MATURITY (date)

Strain	Mean 11 Tests	Boone County IA	Kanawha IA	West Lafayette IN	East Lansing MI	Lamberton MN	Waseca MN
MN1410 (I)	9/19	9/11	9/13	9/3	9/17	9/24	9/25
IA1022 (SCN)	3	5	5	3	-11	7	8
Sheyenne (0)	-5	-5	-9	1	8	-12	-7
U11-917032	2	5	3	5	-8	6	6
AR15-159002	2	7	3	5	-7	5	6
AR15-159009	-1	2	0	3	-2	-1	-0
E13304	-2	-3	-4	3	-5	-1	-2
M10-171020	-2	0	-5	1	-6	-1	-1
M10-201034	-1	-2	-5	4	-7	1	3
M10-270004	3	6	5	5	-16	9	10
M11-120003	1	-2	3	5	-11	7	8
M11-120020	-2	-4	-8	2	2	-3	-2
M11-123013	1	4	0	3	-9	1	4
M11-123015	1	4	-1	3	-6	1	3
M11-131005	4	9	3	5	-17	9	10
M11-131015	-1	1	-7	5	-12	0	1
M11-131022	1	4	2	8	-17	1	1
M11-131060	-1	-1	1	1	-1	-3	-3
M11-131119	-2	-7	-1	2	2	-4	-3
M11-132019	1	6	-2	2	-16	4	3
M11-132044	0	5	2	2	-8	-0	2
OAC 13-74C-SCN	-4	-8	-1	1	4	-9	-6
OAC 14-24C	-5	-8	-1	0	7	-9	-6
OAC 14-26C	-4	-7	0	-2	0	-6	-6
ORC 3313N	-0	1	2	4	-20	1	2
ORC 8015	-1	-6	2	2	2	-1	-0
U14-103005	1	5	1	6	-10	4	5
U14-103008	3	10	1	7	-10	4	4
U14-103015	2	5	-1	8	-10	5	6
U14-103022	5	9	1	13	-13	9	10
U14-103043	6	13	1	13	-16	10	13
U14-211126	6	14	0	15	-15	11	11
U14-222063	7	15	2	21	-18	11	12
Date Planted	5/22	5/15	5/5	5/22	5/17	5/23	6/2
Days to Mature	120	119	131	104	123	124	115

PRELIMINARY TEST I, 2016

MATURITY (date)

Strain	Cotes- field NE	Mead NE	Worms NE	Ridge- town ONT	St Pauls ONT	Saint Hacinthe QUE
MN1410 (I)		9/17	9/25	9/23	9/30	9/29
IA1022 (SCN)		7	5	4	1	2
Sheyenne (0)		-4	-5	-6	-4	-7
U11-917032		3	5	-1	-1	1
AR15-159002		3	2	3	0	-1
AR15-159009		-2	-2	-1	-4	-4
E13304		-3	-3	-1	-1	0
M10-171020		-1	-3	4	-6	-1
M10-201034		-4	-1	5	-2	-3
M10-270004		2	7	5	0	5
M11-120003		2	1	1	-3	3
M11-120020		-4	-2	-2	-1	-3
M11-123013		1	1	4	0	3
M11-123015		1	2	5	1	2
M11-131005		5	5	8	2	4
M11-131015		0	0	5	0	-3
M11-131022		1	3	5	1	-1
M11-131060		-2	-2	1	-4	-4
M11-131119		-5	-3	-1	-2	-3
M11-132019		2	6	10	-2	2
M11-132044		0	1	3	0	0
OAC 13-74C-SCN		-5	-3	-5	-5	-8
OAC 14-24C		-5	-4	-11	-8	-8
OAC 14-26C		-5	-2	-1	-8	-7
ORC 3313N		-1	0	9	0	2
ORC 8015		-5	-1	2	-3	-1
U14-103005		2	4	1	-5	-2
U14-103008		2	2	9	0	1
U14-103015		3	5	6	-2	0
U14-103022		7	7	4	1	4
U14-103043		8	10	11	1	5
U14-211126		7	10	4	1	5
U14-222063		9	9	10	2	7
Date Planted		6/3	6/1	5/27	5/20	5/20
Days to Mature		106	116	119	133	132

PRELIMINARY TEST I, 2016

LODGING (score)

Strain	Mean 11 Tests	Boone County IA	Kanawha IA	West Lafayette IN	East Lansing MI	Lamberton MN	Waseca MN
MN1410 (I)	1.8	1.5	2.5	1.3	1.5	1.5	2.5
IA1022 (SCN)	2.0	1.5	3.0	1.0	2.5	1.5	3.0
Sheyenne (O)	1.7	1.0	2.3	1.3	2.0	1.5	3.0
U11-917032	2.1	1.5	2.8	1.5	2.0	1.5	3.5
AR15-159002	1.9	2.0	2.3	1.3	1.5	2.0	3.0
AR15-159009	2.0	1.5	2.8	2.3	1.0	1.5	4.0
E13304	2.0	1.0	2.3	1.3	3.0	1.5	3.0
M10-171020	1.4	1.0	2.0	1.0	1.0	1.0	3.0
M10-201034	2.1	1.5	3.0	3.0	2.0	2.0	3.5
M10-270004	2.7	2.5	2.8	2.5	2.5	2.0	4.0
M11-120003	2.0	1.5	2.3	1.3	2.0	2.0	3.0
M11-120020	1.4	1.0	1.5	1.0	1.0	1.5	2.0
M11-123013	2.1	1.5	3.0	1.3	1.5	2.0	3.5
M11-123015	1.5	1.0	2.0	1.0	1.5	1.5	3.0
M11-131005	1.6	1.0	2.5	1.0	1.5	1.5	3.0
M11-131015	1.5	1.0	1.8	1.3	1.5	1.0	3.0
M11-131022	1.7	1.0	2.0	1.5	1.5	2.0	3.0
M11-131060	1.5	1.0	2.0	1.3	2.0	1.5	3.0
M11-131119	1.8	1.0	2.5	1.5	2.0	2.0	2.5
M11-132019	1.6	1.5	2.5	1.5	1.5	1.0	3.0
M11-132044	1.5	1.5	1.8	1.0	2.0	1.0	3.0
OAC 13-74C-SCN	1.2	1.0	2.5	1.0	1.0	1.0	2.0
OAC 14-24C	2.0	1.0	2.3	1.5	2.0	2.0	2.0
OAC 14-26C	1.8	1.0	2.3	1.5	2.0	2.0	3.0
ORC 3313N	1.7	1.5	2.3	1.8	1.5	2.0	3.0
ORC 8015	1.5	1.0	2.0	1.0	1.0	1.0	2.5
U14-103005	1.5	1.0	2.3	1.0	1.0	1.5	3.0
U14-103008	1.8	1.0	2.5	1.0	2.0	1.5	3.0
U14-103015	1.5	1.0	2.3	1.0	1.5	1.5	3.0
U14-103022	1.7	1.5	2.3	1.0	1.5	1.5	3.0
U14-103043	1.5	1.0	2.5	1.0	1.0	1.5	3.0
U14-211126	1.8	1.5	2.0	1.3	1.5	2.0	3.0
U14-222063	1.4	1.0	1.8	1.0	1.0	1.0	3.0

PRELIMINARY TEST I, 2016

LODGING (score)

Strain	Cotes- field NE	Mead NE	Worms NE	Ridge- town ONT	St Pauls ONT	Saint Hacinthe QUE
MN1410 (I)		2.0	1.5	2.0	1.2	2.7
IA1022 (SCN)		2.5	1.5	1.5	1.2	3.0
Sheyenne (0)		2.0	1.0	1.0	1.0	2.3
U11-917032		2.0	1.0	3.0	1.0	3.7
AR15-159002		2.0	1.0	2.5	1.0	2.7
AR15-159009		2.5	1.0	2.0	1.0	3.0
E13304		3.5	1.5	1.0	1.2	2.3
M10-171020		1.5	1.0	1.0	1.1	2.0
M10-201034		2.5	1.5	1.0	1.0	2.3
M10-270004		3.0	1.5	2.5	1.9	4.0
M11-120003		2.0	2.0	2.5	1.0	3.0
M11-120020		2.0	1.0	1.0	1.1	2.0
M11-123013		2.0	1.0	2.5	1.5	3.0
M11-123015		1.0	1.0	1.0	1.0	2.3
M11-131005		1.0	1.5	2.0	1.1	2.0
M11-131015		2.0	1.0	1.5	1.0	1.7
M11-131022		1.5	1.0	1.5	1.0	2.3
M11-131060		1.0	1.0	1.0	1.1	2.0
M11-131119		2.5	1.5	1.5	1.1	2.0
M11-132019		2.0	1.0	1.0	1.0	2.0
M11-132044		1.5	1.0	1.0	1.0	1.7
OAC 13-74C-SCN		1.0	1.0	1.0	1.0	1.0
OAC 14-24C		2.5	1.5	2.5	1.0	3.3
OAC 14-26C		2.0	1.0	1.5	1.0	2.3
ORC 3313N		1.5	1.0	1.0	1.0	2.0
ORC 8015		2.0	1.0	1.0	1.1	2.7
U14-103005		1.5	1.0	1.5	1.1	2.0
U14-103008		2.0	1.0	2.5	1.0	2.3
U14-103015		1.0	1.5	1.5	1.0	1.7
U14-103022		1.0	1.5	1.0	1.0	3.0
U14-103043		1.0	1.0	1.0	1.0	2.3
U14-211126		2.0	1.5	1.0	1.1	2.7
U14-222063		1.0	1.0	1.0	1.0	2.3

PRELIMINARY TEST I, 2016

PLANT HEIGHT (inches)

Strain	Mean 10 Tests	Boone County IA	Kanawha IA	West Lafayette IN	East Lansing MI	Lamberton MN	Waseca MN
MN1410 (I)	37	30	38	37	30	37	38
IA1022 (SCN)	38	32	38	34	35	38	44
Sheyenne (O)	35	28	30	33	32	31	39
U11-917032	35	33	34	35	32	35	39
AR15-159002	36	34	39	35	29	35	41
AR15-159009	35	31	34	32	28	29	38
E13304	39	34	37	39	32	40	41
M10-171020	35	32	35	33	30	33	41
M10-201034	42	37	40	39	38	41	46
M10-270004	43	41	43	44	36	42	47
M11-120003	42	42	45	43	37	43	44
M11-120020	39	30	37	39	34	36	42
M11-123013	39	35	42	37	29	38	45
M11-123015	35	30	39	33	31	35	39
M11-131005	43	39	44	42	36	40	49
M11-131015	39	34	37	37	35	37	45
M11-131022	38	34	37	38	30	36	43
M11-131060	35	31	34	33	31	32	38
M11-131119	40	30	36	44	35	40	42
M11-132019	37	36	39	36	30	37	39
M11-132044	35	33	36	35	27	35	40
OAC 13-74C-SCN	31	25	26	30	29	27	37
OAC 14-24C	33	28	27	30	31	29	36
OAC 14-26C	33	27	30	30	26	31	37
ORC 3313N	41	35	36	41	36	38	46
ORC 8015	34	27	32	32	29	32	36
U14-103005	36	31	37	34	32	37	38
U14-103008	37	34	33	35	29	38	39
U14-103015	35	33	36	34	32	32	37
U14-103022	37	35	38	37	31	35	40
U14-103043	39	35	41	38	30	39	43
U14-211126	41	36	44	41	32	41	45
U14-222063	39	34	40	39	31	40	40

PRELIMINARY TEST I, 2016

PLANT HEIGHT (inches)

Strain	Cotes- field NE	Mead NE	Worms NE	Ridge- town ONT	St Pauls ONT	Saint Hacinthe QUE
MN1410 (I)		40		44	37	42
IA1022 (SCN)		40		45	34	38
Sheyenne (O)		39		42	36	41
U11-917032		37		43	29	35
AR15-159002		42		44	31	37
AR15-159009		37		47	35	37
E13304		47		47	37	41
M10-171020		37		41	32	39
M10-201034		45		48	41	45
M10-270004		44		50	43	44
M11-120003		43		47	39	42
M11-120020		45		48	39	45
M11-123013		43		48	36	39
M11-123015		38		41	30	39
M11-131005		46		50	37	44
M11-131015		43		47	36	42
M11-131022		39		46	38	39
M11-131060		36		41	33	38
M11-131119		45		49	37	44
M11-132019		40		43	34	38
M11-132044		38		43	29	40
OAC 13-74C-SCN		32		38	32	34
OAC 14-24C		36		44	35	35
OAC 14-26C		34		42	32	39
ORC 3313N		43		51	37	46
ORC 8015		37		45	33	38
U14-103005		37		42	32	39
U14-103008		44		44	34	39
U14-103015		38		44	32	37
U14-103022		40		44	32	38
U14-103043		42		45	35	42
U14-211126		46		48	40	42
U14-222063		44		45	37	42

PRELIMINARY TEST I, 2016

SEED SIZE (g/100)

Strain	Mean 11 Tests	Boone County IA	Kanawha IA	West Lafayette IN	East Lansing MI	Lamberton MN	Waseca MN
MN1410 (I)	18.1	15.5	14.4	17.5	19.4	17.5	16.7
IA1022 (SCN)	16.9	14.2	13.5	14.4	20.5	16.8	16.3
Sheyenne (O)	17.1	13.7	14.2	18.3	15.6	15.6	16.4
U11-917032	18.1	15.3	13.6	16.8	20.3	16.9	18.1
AR15-159002	18.2	15.4	15.0	18.2	21.4	17.6	18.0
AR15-159009	16.2	13.4	12.8	15.9	18.5	15.3	17.1
E13304	16.4	14.1	14.5	15.8	17.8	15.9	
M10-171020	18.5	15.6	15.0	18.1	20.4	17.7	17.9
M10-201034	15.7	13.1	12.4	15.6	17.5	15.5	14.2
M10-270004	16.1	13.2	13.3	14.9	18.5	15.1	15.6
M11-120003	16.3	13.5	13.2	17.2	19.9	16.0	15.5
M11-120020	18.3	14.9	14.6	19.6	20.3	17.7	16.7
M11-123013	18.9	15.6	15.2	17.7	20.6	17.9	19.2
M11-123015	17.7	15.3	14.0	17.0	20.3	17.2	17.0
M11-131005	17.1	14.8	14.8	17.0	18.7	17.1	16.3
M11-131015	18.1	16.3	14.1	19.2	18.9	17.6	18.1
M11-131022	18.8	17.3	14.3	19.3	20.6	18.2	18.8
M11-131060	18.1	16.1	15.0	18.1	20.0	17.4	16.7
M11-131119	18.0	15.4	14.8	19.6	19.1	17.1	17.1
M11-132019	18.0	15.7	13.7	17.1	19.1	18.1	18.0
M11-132044	18.7	16.4	14.5	19.8	19.3	18.2	17.1
OAC 13-74C-SCN	20.0	14.9	15.0	21.4	23.0	18.9	19.0
OAC 14-24C	19.9	16.2	15.8	18.7	19.7	19.2	19.3
OAC 14-26C	19.5	17.8	17.0	21.6	21.3	19.4	17.8
ORC 3313N	22.6	18.8	19.5	22.9	25.6	22.3	22.6
ORC 8015	19.7	16.4	16.4	19.1	20.5	18.6	19.2
U14-103005	17.2	14.4	14.7	17.2	20.1	16.4	17.1
U14-103008	17.7	14.9	15.1	16.8	18.8	17.8	17.0
U14-103015	18.2	15.6	15.4	17.7	21.1	17.3	18.8
U14-103022	16.1	12.8	13.9	15.6	17.7	14.5	16.8
U14-103043	17.7	15.1	15.9	17.3	20.0	17.2	18.2
U14-211126	17.1	15.8	14.8	16.6	19.5	16.1	17.8
U14-222063	18.7	15.8	16.0	17.7	22.0	18.2	18.8

PRELIMINARY TEST I, 2016

SEED SIZE (g/100)

Strain	Cotes- field NE	Mead NE	Worms NE	Ridge- town ONT	St Pauls ONT	Saint Hacinthe QUE
MN1410 (I)	18.4	18.8		19.6	22.5	19.3
IA1022 (SCN)	17.3	15.0		18.7	21.0	18.1
Sheyenne (0)	18.7	17.0		18.1	23.1	18.0
U11-917032	18.2	16.0		24.9	19.6	19.5
AR15-159002	18.2	15.4		20.6	20.7	19.5
AR15-159009	16.2	15.1		17.9	17.8	17.9
E13304	16.2	15.7		17.5	18.7	18.0
M10-171020	18.9	17.4		22.2	20.9	19.8
M10-201034	15.3	14.4		18.2	19.2	17.1
M10-270004	15.7	14.0		20.4	19.6	17.3
M11-120003	15.5	14.7		17.1	19.2	17.7
M11-120020	18.0	17.3		19.3	22.9	20.4
M11-123013	19.6	17.6		22.0	22.2	20.8
M11-123015	18.1	17.1		18.9	20.7	19.3
M11-131005	17.1	16.6		17.5	19.5	18.5
M11-131015	18.2	17.7		17.9	21.1	19.7
M11-131022	19.5	17.1		21.7	20.8	19.9
M11-131060	19.6	18.2		18.5	20.9	18.9
M11-131119	19.3	17.7		19.1	20.6	18.8
M11-132019	17.9	17.3		20.5	21.0	19.9
M11-132044	18.8	17.7		21.3	22.3	20.8
OAC 13-74C-SCN	20.1	16.4		22.7	26.1	22.5
OAC 14-24C	21.4	18.6		22.0	25.1	22.4
OAC 14-26C	19.0	18.1		21.8	21.3	19.8
ORC 3313N	22.3	20.9		24.8	24.5	24.7
ORC 8015	19.9	17.7		22.3	24.2	22.2
U14-103005	17.6	15.6		19.1	19.4	17.6
U14-103008	18.6	17.3		19.2	20.8	18.3
U14-103015	19.8	17.6		18.2	20.2	18.8
U14-103022	16.9	15.1		17.3	19.1	17.5
U14-103043	18.2	17.3		17.3	20.1	18.6
U14-211126	16.6	16.0		18.4	18.2	18.6
U14-222063	19.4	17.3		19.2	20.3	20.9

PRELIMINARY TEST I, 2016

SEED QUALITY (score)

Strain	Mean 10 Tests	Boone County IA	Kanawha IA	West Lafayette IN	East Lansing MI	Lamberton MN	Waseca MN
MN1410 (I)	1.8	3.0	1.0	2.0		2.0	2.0
IA1022 (SCN)	1.7	3.5	1.0	1.0		2.0	1.5
Sheyenne (O)	2.6	4.0	2.0	3.0		3.0	2.0
U11-917032	1.8	3.5	1.0	1.5		2.0	1.5
AR15-159002	1.9	3.5	1.0	1.5		2.0	2.0
AR15-159009	1.7	3.0	2.0	1.0		2.0	1.5
E13304	1.7	2.0	1.0	1.5		2.0	1.5
M10-171020	1.8	2.5	1.0	1.0		2.0	2.0
M10-201034	1.9	3.0	1.0	2.0		2.5	1.5
M10-270004	1.5	2.5	1.0	1.5		2.0	1.5
M11-120003	2.1	3.0	2.0	2.0		2.0	2.0
M11-120020	2.1	2.5	2.0	2.0		2.0	2.0
M11-123013	1.5	2.5	1.0	1.0		2.0	1.0
M11-123015	1.7	2.0	1.0	1.0		2.0	2.0
M11-131005	2.0	2.5	1.0	2.0		3.0	2.0
M11-131015	1.8	2.0	2.0	3.0		2.0	1.5
M11-131022	1.6	2.5	1.0	1.5		2.5	2.0
M11-131060	1.7	2.5	1.0	2.0		2.0	1.5
M11-131119	1.5	2.0	2.0	1.5		2.0	1.0
M11-132019	1.4	1.5	1.0	1.0		1.5	2.0
M11-132044	1.4	1.5	1.0	1.5		2.0	1.0
OAC 13-74C-SCN	1.7	2.0	1.0	2.5		2.0	1.0
OAC 14-24C	2.0	2.0	2.0	2.0		2.5	2.0
OAC 14-26C	2.5	3.0	2.0	2.0		3.0	2.0
ORC 3313N	2.1	3.0	2.0	2.0		2.5	2.5
ORC 8015	1.5	2.5	1.0	1.5		2.0	1.5
U14-103005	1.6	2.0	1.0	1.0		1.5	1.5
U14-103008	1.6	1.5	1.0	1.5		1.0	1.5
U14-103015	1.6	1.0	1.0	1.5		2.5	1.5
U14-103022	1.5	1.5	1.0	1.0		1.5	1.5
U14-103043	1.7	2.0	1.0	1.0		2.0	2.5
U14-211126	1.8	2.0	1.0	1.0		2.0	3.0
U14-222063	1.6	2.0	1.0	1.0		2.0	2.5

PRELIMINARY TEST I, 2016

SEED QUALITY (score)

Strain	Cotes- field NE	Mead NE	Worms NE	Ridge- town ONT	St Pauls ONT	Saint Hacinthe QUE
MN1410 (I)	1.0	2.0		1.0	1.5	2.8
IA1022 (SCN)	2.0	1.0		1.0	1.5	2.3
Sheyenne (0)	2.0	1.0		1.5	4.0	3.0
U11-917032	2.0	1.0		1.0	1.5	3.0
AR15-159002	2.0	1.0		1.0	1.5	3.0
AR15-159009	1.0	1.0		1.0	1.5	3.0
E13304	2.0	2.0		1.0	1.5	2.8
M10-171020	2.0	1.0		1.0	2.0	3.0
M10-201034	2.0	1.0		1.0	1.5	3.0
M10-270004	1.0	1.0		1.0	1.5	2.2
M11-120003	2.0	2.0		1.0	1.5	3.0
M11-120020	2.0	1.0		1.0	3.5	3.2
M11-123013	1.0	1.0		1.0	1.5	3.0
M11-123015	2.0	1.0		1.0	1.5	3.0
M11-131005	2.0	1.0		1.0	3.0	2.8
M11-131015	2.0	1.0		1.0	1.5	2.3
M11-131022	1.0	1.0		1.0	1.5	2.3
M11-131060	1.0	2.0		1.0	1.5	2.5
M11-131119	1.0	1.0		1.0	1.5	2.3
M11-132019	1.0	1.0		1.0	1.5	2.8
M11-132044	1.0	1.0		1.0	1.5	2.3
OAC 13-74C-SCN	1.0	1.0		1.0	2.5	2.8
OAC 14-24C	2.0	1.0		1.0	3.0	2.7
OAC 14-26C	3.0	2.0		1.0	4.0	3.0
ORC 3313N	2.0	2.0		1.0	1.5	2.8
ORC 8015	1.0	1.0		1.0	1.5	2.0
U14-103005	1.0	2.0		1.0	1.5	3.0
U14-103008	2.0	2.0		1.0	1.5	2.8
U14-103015	1.0	2.0		1.0	1.5	3.0
U14-103022	1.0	2.0		1.0	1.5	3.0
U14-103043	2.0	1.0		1.0	1.5	3.0
U14-211126	2.0	1.0		1.0	1.5	3.0
U14-222063	1.0	1.0		1.0	1.5	2.8

PRELIMINARY TEST I, 2016

PROTEIN (%)

Strain	Mean 7 Tests	West Lafayette IA	Lamber- ton MN	Waseca MN	Mead NE	Ridge- town ONT	St Pauls ONT	Saint Hacinthe QUE
MN1410 (I)	39.1	36.4	36.4	35.3	36.5	43.5	44.0	41.5
IA1022 (SCN)	35.9	33.2	33.9	33.1	33.5	39.9	39.8	37.7
Sheyenne (O)	37.2	36.4	34.4	33.8	34.9	40.6	41.4	39.1
U11-917032	36.8	34.0	34.5	34.2	33.8	41.5	40.0	39.9
AR15-159002	36.9	33.7	35.1	35.0	34.2	41.0	40.4	38.8
AR15-159009	36.8	34.1	34.1	34.4	34.6	41.1	40.5	38.8
E13304	39.2	36.7	37.0	36.6	36.6	42.9	42.8	41.6
M10-171020	38.7	36.8	36.0	34.8	35.9	43.6	41.6	42.1
M10-201034	38.8	37.0	36.1	34.7	35.7	42.8	43.4	41.6
M10-270004	37.7	36.1	35.6	34.1	35.3	43.1	41.0	39.0
M11-120003	39.0	36.1	36.7	35.8	36.5	43.6	43.1	41.1
M11-120020	41.1	38.9	37.9	37.0	37.7	44.7	45.9	45.3
M11-123013	39.7	36.6	37.8	36.2	36.2	45.0	43.5	42.6
M11-123015	40.7	37.7	37.9	37.5	37.0	45.3	45.3	43.9
M11-131005	37.4	34.8	35.4	34.8	34.6	41.5	40.8	40.1
M11-131015	37.9	36.6	35.8	34.9	35.0	42.5	40.5	40.3
M11-131022	39.2	37.5	36.7	36.4	35.9	43.2	42.5	42.0
M11-131060	40.4	38.2	37.7	36.8	37.4	44.1	44.9	43.9
M11-131119	40.3	38.9	37.0	36.9	37.5	43.7	45.0	43.5
M11-132019	39.4	36.8	36.8	35.8	36.1	44.2	43.2	42.7
M11-132044	38.8	36.6	36.2	35.1	35.8	42.8	43.3	41.8
OAC 13-74C-SCN	37.7	35.8	34.4	34.5	34.4	42.3	42.0	40.4
OAC 14-24C	38.1	35.8	35.2	34.1	35.7	42.5	42.0	41.3
OAC 14-26C	37.4	35.6	35.4	34.1	34.6	42.2	40.3	39.9
ORC 3313N	38.7	36.2	36.6	36.1	35.4	42.4	41.9	42.6
ORC 8015	39.3	36.6	36.0	35.8	35.7	43.7	44.5	42.6
U14-103005	39.0	36.7	36.2	35.1	36.1	43.8	42.9	42.4
U14-103008	39.1	36.6	36.7	35.4	35.7	44.5	43.1	41.8
U14-103015	38.6	36.3	36.3	36.0	35.4	42.9	42.3	41.4
U14-103022	38.3	35.4	36.2	35.5	35.2	42.1	42.2	41.8
U14-103043	38.2	34.9	35.6	35.0	35.5	43.0	42.3	41.1
U14-211126	38.5	35.3	36.4	35.1	35.4	43.3	42.1	41.9
U14-222063	37.1	34.2	35.4	33.5	33.6	41.6	41.0	40.7

PRELIMINARY TEST I, 2016

OIL (%)

Strain	Mean 7 Tests	West Lafayette IA	Lamber- ton MN	Waseca MN	Mead NE	Ridge- town ONT	St Pauls ONT	Saint Hacinthe QUE
MN1410 (I)	19.9	20.3	18.9	18.5	18.9	21.4	20.5	20.6
IA1022 (SCN)	20.8	21.6	18.3	18.6	19.7	24.4	21.4	21.5
Sheyenne (O)	20.3	20.5	18.6	17.9	19.1	24.2	20.9	20.9
U11-917032	20.2	21.3	17.9	18.4	19.8	23.1	20.0	20.7
AR15-159002	20.1	20.4	18.4	18.5	18.3	22.9	21.4	20.7
AR15-159009	20.2	20.0	18.3	19.7	18.3	23.3	21.3	20.7
E13304	19.8	19.8	19.6	18.1	18.6	21.2	20.8	20.3
M10-171020	19.6	20.1	18.0	17.9	18.6	21.9	20.8	19.5
M10-201034	19.9	19.9	18.0	18.8	19.0	23.1	20.5	19.9
M10-270004	20.7	21.3	18.1	18.2	20.3	22.8	21.8	22.2
M11-120003	19.8	20.3	18.2	18.3	18.5	22.3	20.9	20.0
M11-120020	19.2	18.9	17.8	18.9	17.8	22.8	19.9	18.5
M11-123013	19.6	19.9	18.2	18.0	19.0	20.7	20.6	20.6
M11-123015	19.5	19.8	17.9	18.2	19.0	21.9	19.8	20.1
M11-131005	19.8	20.3	17.7	18.1	18.8	23.4	20.7	19.8
M11-131015	19.7	19.5	18.2	18.7	18.9	22.4	20.7	19.8
M11-131022	19.6	19.4	18.4	18.5	18.8	22.6	20.0	19.7
M11-131060	19.5	19.2	18.6	19.4	18.2	21.9	19.9	19.1
M11-131119	19.3	18.9	19.3	18.7	18.1	20.9	19.8	19.4
M11-132019	20.0	20.2	18.5	18.8	18.9	23.0	20.5	20.3
M11-132044	19.9	19.8	18.7	19.1	18.8	22.7	20.0	19.9
OAC 13-74C-SCN	20.4	20.6	18.5	18.4	19.7	23.2	21.3	21.0
OAC 14-24C	19.8	19.7	18.4	18.4	18.7	22.7	20.6	19.8
OAC 14-26C	20.2	20.6	18.0	18.3	19.2	23.4	21.2	20.5
ORC 3313N	19.9	20.2	17.8	18.7	19.4	22.7	21.2	19.6
ORC 8015	19.6	19.7	18.3	18.1	18.7	22.4	20.2	19.5
U14-103005	19.6	19.9	17.7	18.6	18.2	22.4	20.7	19.8
U14-103008	19.4	20.1	17.8	18.5	18.8	20.4	20.2	20.2
U14-103015	20.1	20.6	17.9	18.4	19.3	23.0	21.0	20.6
U14-103022	20.0	20.0	18.1	21.4	18.5	22.3	20.4	19.6
U14-103043	20.6	20.9	21.3	22.1	18.5	20.7	20.8	20.1
U14-211126	20.7	20.5	20.5	22.1	18.8	22.0	20.8	20.0
U14-222063	20.4	20.4	20.2	20.8	18.9	22.0	20.6	19.6

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UNIFORM TEST II, 2016

Ent.	Strain	Parentage	Seed Source	Previous Testing	Gen. Comp.	Unique Traits
1	IA2102 (II)	A04-545045 x AgriPro 98180-A01-0613	Fehr	5	F4	
2	IA1022 (SCN)	Dairyland 98822 x A00-711024	Fehr	8	F5	SCN
3	LD02-4485 (SCN)	M90-184111 x IA3010	Diers	4	F5	SCN
4	U11-920017	HS5-3417 x LD02- 4485	Graef	2	F6	Rps Resis.
5	AR13-132037	AR06-264007 x Golden Harvest H-2285	Cianzio	UTI	F4	PR
6	AR13-232106	AR07-176075 x Syngenta 03JR321088	Cianzio	PTIIA	F4	
7	E12042	IA3023 x E00003	Wang	1	F5	
8	E13100	LD01-7323 x U01-390489	Wang	PTIIA	F5	SCN
9	E13126	E00003 x PI 416805	Wang	PTIIA	F5	
10	E13132	E00003 x PI 416805	Wang	PTIIA	F5	
11	E13268	U03-300134 x E07051	Wang	PTIIA	F5	
12	E13298	E09902 x E10928	Wang	PTIIA	F5	
13	E13345	E10919 x E00003	Wang	PTIIA	F5	
14	E13364	E07051 x E10928	Wang	PTIIA	F5	
15	E13370	E07051 x E10928	Wang	PTIIA	F5	SCN
16	LD10-10198	LD05-3230 x LD00-3309	Diers	2	F4	SCN
17	LD11-643	IA3023 x Thompson SeedsT0499	Diers	1	F4	
18	M08-365100	M90-184111 x U03-100612	Lorenz	SCNUTI	F5	SCN, PI 88788
19	M09-278096	M90-184111 x E06936	Lorenz	PTIIA	F5	SCN
20	MSC09-777143	IA2073 x PI438489B	Lorenz	SCNPTII	F5	SCN, PI 438489B
21	U11-911079	LD02-4485 x U03-300134	Graef	1	F6	SCN HR, R. Rps Resis.
22	U13-603120	U09-323109 x U09-312115	Graef	PTIIB	F5	Rps
23	U13-604147	U09-323109 x U09-312115	Graef	PTIIB	F5	Rps
24	U13-609144	U09-312115 x U03-260216	Graef	PTIIB	F5	Rps
25	U13-912010	U09-209069 x U09-311114	Graef	PTI	F5	Rps
26	U13-912032	U09-209069 x U09-311114	Graef	PTI	F5	Rps
27	U13-918042	U09-234083 x U09-209069	Graef	PTI	F5	
28	U13-926082	U09-209069 x U09-311114	Graef	PTI	F5	Rps

UNIFORM TEST II, 2016

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	IDC Score		Shattering Score	SDS Data
		Lamber-ton	Waseca	Man-hattan	Monmouth IL DX Rank
IA2102 (II)	WGTYYYI	3.5	3.5	3.0	1.2
IA1022 (SCN)	PGTSYYI	3.0	3.0	5.0	3.3
LD02-4485 (SCN)	WGTDYLBfI	3.5	3.5	3.0	14.2
U11-920017	WGBIYBfI	3.3	3.3	2.0	0.4
AR13-132037	PGTSYBfI	4.8	4.8	5.0	7.2
AR13-232106	PGBSYDibI	3.8	3.8	2.0	8.9
E12042	WGBSYDibI	4.0	4.0	5.0	0.2
E13100	WGTYYYYI	4.5	4.5	3.0	0.3
E13126	PTBSYBrI	3.0	3.0	5.0	0.0
E13132	PTBSYBrI	2.5	2.5	4.0	0.7
E13268	PGTSYBDibI	3.3	3.3	3.0	1.3
E13298	PTBSYBI	3.8	3.8	4.0	13.6
E13345	PT+GBSYBrI	3.8	3.8	3.0	3.9
E13364	PGTSYDibI	4.5	4.5	5.0	4.2
E13370	P+WT+GBSYBI	4.3	4.3	5.0	2.7
LD10-10198	PGTSYGI	3.3	3.3	2.0	2.7
LD11-643	PGTDYLBfI	2.8	2.8	3.0	5.0
M08-365100	PGTSYDibI	4.0	4.0	4.0	3.4
M09-278096	PTBIYYI	4.3	4.3	1.0	0.8
MSC09-777143	P+WT+GTIYBfI	4.0	4.0	2.0	1.4
U11-911079	PGTSYDibI	2.3	2.3	2.0	0.7
U13-603120	PGBSYDibI	3.3	3.3	3.0	5.6
U13-604147	PGBSYDibI	3.3	3.3	3.0	1.1
U13-609144	PGBIYDibI	4.0	4.0	3.0	0.8
U13-912010	WGTDYLBfI	4.8	4.8	5.0	5.6
U13-912032	WGBSYGI	4.5	4.5	3.0	1.7
U13-918042	WGTSYDibI	4.8	4.8	4.0	0.2
U13-926082	WGBSYGI	3.3	3.3	4.0	0.6
				Mean	3.0
				P>F	0.6525
				LSD	11.2

UNIFORM TEST II, 2016

REGIONAL SUMMARY

No. of Tests Strain	Yield 15 bu/a	Rank 15 No.	Maturity 14 Date	Lodging 14 Score	Plant Height 13 In.	Seed Size 13 g/100	Seed Quality 12 Score	Composition	
								Protein 8 %	Oil 8 %
IA2102 (II)	68.2	9	9/23	2.7	37	17.2	1.7	35.8	19.2
IA1022 (SCN)	62.4	28	-2.7	2.0	35	16.5	1.7	34.1	20.8
LD02-4485 (SCN)	69.0	4	1.3	2.0	37	15.7	1.8	33.8	19.8
U11-920017	68.9	5	2.1	1.7	35	18.2	1.8	34.0	20.3
AR13-132037	65.1	18	-1.4	2.2	37	16.9	1.7	35.6	19.3
AR13-232106	64.8	19	0.1	2.0	33	15.8	1.7	35.8	19.4
E12042	69.2	3	2.7	3.1	40	15.9	1.7	34.8	19.8
E13100	65.5	16	-0.3	2.1	38	19.6	2.0	35.7	20.2
E13126	62.8	26	0.3	2.7	40	15.9	1.6	35.3	19.6
E13132	63.3	23	0.7	2.8	41	15.9	1.7	35.4	20.0
E13268	67.2	12	-3.1	1.9	34	16.1	1.8	34.5	19.7
E13298	64.4	21	1.3	2.4	42	18.8	1.8	35.5	19.8
E13345	63.2	25	1.5	2.5	38	15.5	1.7	35.6	19.7
E13364	64.3	22	-0.8	2.7	36	17.1	1.8	36.5	19.3
E13370	65.3	17	-0.4	2.2	35	15.9	1.7	36.0	18.9
LD10-10198	70.5	1	0.9	1.7	37	15.3	1.6	35.4	19.1
LD11-643	65.8	15	-0.2	1.6	36	18.4	1.6	33.9	20.5
M08-365100	63.3	23	-3.2	2.0	34	17.5	1.8	35.4	20.6
M09-278096	64.8	19	-1.7	2.1	34	14.6	1.8	33.4	20.5
MSC09-777143	66.1	14	1.1	2.2	36	15.8	2.2	33.5	20.6
U11-911079	68.3	8	-1.0	1.4	37	13.8	1.8	34.7	18.9
U13-603120	68.8	6	3.6	1.6	40	15.0	1.5	34.7	19.6
U13-604147	68.4	7	2.9	1.7	39	15.0	1.6	34.8	19.9
U13-609144	69.4	2	2.7	2.3	38	14.8	1.5	34.0	20.4
U13-912010	67.4	11	-0.5	1.7	38	17.2	2.0	34.9	20.3
U13-912032	66.7	13	1.0	2.3	38	16.8	1.8	34.9	20.4
U13-918042	67.7	10	-2.0	1.8	38	17.4	1.7	35.0	20.5
U13-926082	62.8	26	0.2	2.3	37	18.3	2.0	35.4	20.1
Mean	64.3			2.1	37.0	15.9	1.6		
C.V. (%)	14.1			33.6	7.8	5.8	0.6		
L.S.D. (5%)	4.2			0.3	1.4	0.6	0.3		

124.6 Days After Planting

UNIFORM TEST II, 2016

2015-2016 2-Year Mean

No. of Tests Strain	Yield	Rank	Maturity	Lodging	Plant	Seed	Seed	Composition	
	29 bu/a	29 No.	28 Date	27 Score	Height 27 In.	Size 26 g/100	Quality 24 Score	Protein 15 %	Oil 15 %
IA2102 (II)	67.5	6	9/25	2.2	35	16.5	1.7	35.6	19.4
IA1022 (SCN)	62.0	8	-3.3	1.8	32	15.9	1.6	33.9	21.1
LD02-4485 (SCN)	68.3	5	1.4	1.8	34	15.1	1.7	33.6	20.0
U11-920017	69.5	2	2.8	1.6	33	17.4	1.8	33.6	20.5
E12042	68.5	3	3.1	2.5	37	15.3	1.5	34.5	20.1
LD10-10198	69.9	1	1.6	1.5	34	14.6	1.5	35.2	19.3
LD11-643	67.1	7	0.9	1.4	33	17.6	1.6	33.6	20.8
U11-911079	68.4	4	-0.3	1.3	34	13.4	1.7	34.4	19.4

125.1 Days After Planting

2014-2016 3-Year Mean

No. of Tests Strain	42	42	42	41	40	36	34	25	25
IA2102 (II)	68.0	3	9/20	2.3	34	16.7	1.7	35.5	19.1
IA1022 (SCN)	62.1	5	-3.9	1.7	31	16.1	1.6	33.9	20.7
LD02-4485 (SCN)	67.5	4	0.7	1.8	34	15.2	1.7	33.6	19.8
U11-920017	70.5	1	2.0	1.6	32	17.8	1.7	33.7	20.1
LD10-10198	69.9	2	1.9	1.4	34	14.8	1.5	35.2	18.9

125.3 Days After Planting

UNIFORM TEST II, 2016

YIELD (bu/a)

Strain	Mean 15 Tests	Boone County IA	Boone IA	Monmouth IL	Urbana IL	West Lafayette IN
IA2102 (II)	68.2	67.4	69.8	79.3	62.3	66.9
IA1022 (SCN)	62.4	57.0	62.2	67.8	52.6	59.8
LD02-4485 (SCN)	69.0	59.2	67.3	83.6	66.2	71.3
U11-920017	68.9	38.9	59.8	87.2	68.1	63.3
AR13-132037	65.1	48.8	59.1	62.6	56.9	55.4
AR13-232106	64.8	53.2	61.6	78.2	59.3	65.2
E12042	69.2	47.2	54.4	75.1	66.0	62.4
E13100	65.5	52.3	65.8	68.4	62.9	61.2
E13126	62.8	51.5	54.3	71.3	56.3	52.3
E13132	63.3	48.2	52.1	70.0	62.1	54.4
E13268	67.2	58.7	51.6	73.4	61.0	69.7
E13298	64.4	47.6	67.8	71.3	61.1	67.4
E13345	63.2	44.2	46.9	72.6	57.6	68.4
E13364	64.3	56.9	55.8	73.9	62.0	63.8
E13370	65.3	50.8	52.1	62.0	61.5	68.9
LD10-10198	70.5	59.3	71.6	80.4	70.9	63.6
LD11-643	65.8	51.9	59.0	69.6	66.7	62.1
M08-365100	63.3	60.9	67.4	68.5	57.8	56.8
M09-278096	64.8	58.1	64.7	74.4	64.8	60.3
MSC09-777143	66.1	61.8	68.5	75.8	62.7	69.0
U11-911079	68.3	59.0	72.1	81.5	65.3	71.4
U13-603120	68.8	59.5	56.8	74.6	59.6	65.9
U13-604147	68.4	50.9	46.3	61.0	66.3	72.9
U13-609144	69.4	57.7	54.9	73.1	71.1	66.7
U13-912010	67.4	57.9	50.6	83.2	66.9	68.6
U13-912032	66.7	55.6	45.7	84.1	63.5	62.1
U13-918042	67.7	54.7	58.2	71.9	64.8	66.6
U13-926082	62.8	51.3	57.8	77.8	57.8	61.1
Location Mean		54.3	59.1	74.0	62.6	64.2
C.V. (%)		14.2	10.5	9.7	6.4	8.9
L.S.D. (5%)		15.9	12.7	14.7	8.3	9.4
Row Sp. (In.)		30	30	30	30	30
Rows/Plot		4	4	4	4	4
Reps		2	2	2	2	3

UNIFORM TEST II, 2016

YIELD (bu/a)

Strain	Britton MI	East Lansing MI	Lamberton MN	Waseca MN	Cotes- field NE
IA2102 (II)	64.6	71.1	52.0	66.2	94.7
IA1022 (SCN)	55.7	73.3	52.6	62.3	97.5
LD02-4485 (SCN)	69.1	73.9	53.2	60.1	97.6
U11-920017	63.1	77.5	66.8	65.3	95.9
AR13-132037	67.9	72.2	59.8	62.6	94.2
AR13-232106	62.2	61.7	55.0	62.7	94.4
E12042	72.0	66.4	51.0	61.0	113.8
E13100	60.5	64.2	60.1	63.9	94.0
E13126	59.3	53.3	48.9	61.0	98.2
E13132	61.2	66.7	53.0	59.3	96.1
E13268	60.0	65.6	64.6	64.7	97.7
E13298	57.7	63.9	53.6	53.3	97.4
E13345	65.8	66.7	49.1	53.2	96.7
E13364	56.6	71.3	52.8	64.3	95.5
E13370	67.6	73.6	56.4	61.5	90.1
LD10-10198	70.4	78.1	57.2	63.6	98.4
LD11-643	68.1	65.3	51.4	63.3	94.7
M08-365100	57.6	67.0	58.3	54.8	94.0
M09-278096	57.6	73.3	59.6	58.9	93.6
MSC09-777143	64.3	73.9	56.9	59.5	90.6
U11-911079	68.9	73.9	54.8	60.2	88.8
U13-603120	73.0	87.6	54.7	60.6	92.5
U13-604147	83.9	77.1	54.8	50.5	101.6
U13-609144	73.1	80.1	57.7	58.5	98.9
U13-912010	48.5	82.8	58.9	64.7	98.2
U13-912032	58.1	60.0	52.4	61.6	100.7
U13-918042	63.7	76.7	62.6	64.5	97.5
U13-926082	58.3	59.6	51.0	59.6	93.4
Location Mean	63.9	70.6	55.7	60.8	96.3
C.V. (%)	9.8	11.5	13.7	8.1	8.1
L.S.D. (5%)	15.4	20.0	12.5	8.1	20.2
Row Sp. (In.)	15	30	30	30	30
Rows/Plot	6	4	4	4	4
Reps	2	2	3	3	2

UNIFORM TEST II, 2016

YIELD (bu/a)

Strain	Mead NE	Worms NE	Hoytville OH	Wooster OH	Chatham ONT
IA2102 (II)	81.1	81.7	34.9	33.9	97.1
IA1022 (SCN)	64.9	83.7	31.8	29.2	86.0
LD02-4485 (SCN)	72.0	85.0	49.7	36.9	90.4
U11-920017	78.4	86.8	53.8	39.3	89.8
AR13-132037	79.9	81.9	52.4	31.7	91.4
AR13-232106	67.8	75.6	52.3	31.2	91.1
E12042	87.4	88.4	56.0	35.2	102.1
E13100	63.6	86.0	56.1	39.2	84.0
E13126	87.5	81.4	51.0	38.2	77.4
E13132	72.9	83.0	54.5	38.3	78.6
E13268	76.5	86.3	47.6	35.3	95.2
E13298	69.5	82.6	52.1	39.5	81.5
E13345	75.0	82.1	47.0	42.7	80.3
E13364	66.0	86.3	56.2	33.5	69.2
E13370	69.3	86.8	48.6	41.4	89.6
LD10-10198	73.7	85.0	57.6	39.3	87.8
LD11-643	81.7	87.0	49.1	28.8	88.7
M08-365100	74.1	77.6	34.8	27.3	92.3
M09-278096	69.8	81.8	40.7	29.3	85.5
MSC09-777143	69.6	80.9	53.8	26.3	77.9
U11-911079	73.4	87.5	42.2	34.4	91.4
U13-603120	71.3	83.7	57.8	41.4	92.7
U13-604147	72.0	91.7	56.6	43.6	96.3
U13-609144	63.6	86.7	66.5	34.8	97.2
U13-912010	80.3	85.8	42.4	29.6	92.9
U13-912032	74.9	88.1	57.4	40.4	95.8
U13-918042	74.9	87.9	43.6	39.8	88.5
U13-926082	70.2	79.6	48.0	30.1	86.1
Location Mean	73.6	84.3	49.8	35.4	88.4
C.V. (%)	8.8	5.7	18.2	22.3	9.2
L.S.D. (5%)	16.0	11.8	14.8	12.9	11.1
Row Sp. (In.)	30	30	7.5	7.5	17
Rows/Plot	4	4	8	8	5
Reps	2	2	3	3	3

UNIFORM TEST II, 2016

YIELD RANK

Strain	Yield Rank	Boone County IA	Boone IA	Monmouth IL	Urbana IL	West Lafayette IN
IA2102 (II)	9	1	3	7	15	10
IA1022 (SCN)	28	12	10	25	28	24
LD02-4485 (SCN)	4	6	7	3	7	3
U11-920017	5	28	12	1	3	17
AR13-132037	18	23	13	26	26	26
AR13-232106	19	16	11	8	22	14
E12042	3	26	20	11	8	18
E13100	16	17	8	24	13	21
E13126	26	19	21	19	27	28
E13132	23	24	22	21	16	27
E13268	12	8	24	15	20	4
E13298	21	25	5	19	19	9
E13345	25	27	26	17	25	8
E13364	22	13	18	14	17	15
E13370	17	22	23	27	18	6
LD10-10198	1	5	2	6	2	16
LD11-643	15	18	14	22	5	19
M08-365100	23	3	6	23	23	25
M09-278096	19	9	9	13	10	23
MSC09-777143	14	2	4	10	14	5
U11-911079	8	7	1	5	9	2
U13-603120	6	4	17	12	21	13
U13-604147	7	21	27	28	6	1
U13-609144	2	11	19	16	1	11
U13-912010	11	10	25	4	4	7
U13-912032	13	14	28	2	12	19
U13-918042	10	15	15	18	10	12
U13-926082	26	20	16	9	23	22

UNIFORM TEST II, 2016

YIELD RANK

Strain	Britton MI	East Lansing MI	Lamberton MN	Waseca MN	Cotes- field NE
IA2102 (II)	12	16	23	1	18
IA1022 (SCN)	27	12	21	12	11
LD02-4485 (SCN)	6	8	18	19	9
U11-920017	15	5	1	2	15
AR13-132037	9	14	5	11	20
AR13-232106	16	25	13	10	19
E12042	4	20	25	15	1
E13100	18	23	4	7	22
E13126	20	28	28	16	7
E13132	17	18	19	22	14
E13268	19	21	2	4	8
E13298	23	24	17	26	12
E13345	11	19	27	27	13
E13364	26	15	20	6	16
E13370	10	11	12	14	27
LD10-10198	5	4	10	8	5
LD11-643	8	22	24	9	18
M08-365100	24	17	8	25	22
M09-278096	24	13	6	23	23
MSC09-777143	13	9	11	21	26
U11-911079	7	10	14	18	28
U13-603120	3	1	16	17	25
U13-604147	1	6	15	28	2
U13-609144	2	3	9	24	4
U13-912010	28	2	7	3	7
U13-912032	22	26	22	13	3
U13-918042	14	7	3	5	11
U13-926082	21	27	26	20	24

UNIFORM TEST II, 2016

YIELD RANK

Strain	Mead NE	Worms NE	Hoytville OH	Wooster OH	Chatham ONT
IA2102 (II)	4	23	25	16	3
IA1022 (SCN)	26	17	27	23	20
LD02-4485 (SCN)	17	15	15	11	13
U11-920017	7	8	10	7	14
AR13-132037	6	21	11	18	10
AR13-232106	24	28	12	19	12
E12042	2	2	8	13	1
E13100	28	12	7	8	22
E13126	1	24	14	10	27
E13132	15	18	9	9	25
E13268	8	11	19	12	6
E13298	22	19	13	6	23
E13345	9	20	20	2	24
E13364	25	11	6	17	28
E13370	23	8	17	3	15
LD10-10198	13	15	3	7	18
LD11-643	3	6	16	24	16
M08-365100	12	27	26	25	9
M09-278096	20	22	24	22	21
MSC09-777143	21	25	10	26	26
U11-911079	14	5	23	15	11
U13-603120	18	17	2	3	8
U13-604147	17	1	5	1	4
U13-609144	28	9	1	14	2
U13-912010	5	13	22	21	7
U13-912032	11	3	4	4	5
U13-918042	11	4	21	5	17
U13-926082	19	26	18	20	19

UNIFORM TEST II, 2016

MATURITY (date)

Strain	Mean 14 Tests	Boone County IA	Boone IA	Monmouth IL	Urbana IL	West Lafayette IN
IA2102 (II)	9/23	9/23	9/27	9/14	9/13	9/11
IA1022 (SCN)	-3	-3	10	-8	-3	-2
LD02-4485 (SCN)	1	2	-1	1	7	3
U11-920017	2	1	-3	5	8	6
AR13-132037	-1	-4	7	-5	-1	2
AR13-232106	0	-2	6	0	1	3
E12042	3	1	-3	2	7	4
E13100	-0	-4	5	-6	0	2
E13126	0	-2	2	1	2	5
E13132	1	-2	6	0	4	6
E13268	-3	-8	7	-9	-4	5
E13298	1	-3	-2	2	9	10
E13345	2	2	5	1	6	8
E13364	-1	-3	6	-5	1	5
E13370	-0	0	2	-4	1	6
LD10-10198	1	0	-1	1	3	5
LD11-643	-0	-3	0	-3	1	3
M08-365100	-3	-8	12	-8	-5	3
M09-278096	-2	-6	7	-3	-1	4
MSC09-777143	1	0	-3	2	7	4
U11-911079	-1	-1	0	0	1	3
U13-603120	4	9	-6	5	8	7
U13-604147	3	5	-4	1	9	7
U13-609144	3	6	-6	4	9	9
U13-912010	-1	-1	2	2	-1	4
U13-912032	1	3	-1	3	2	5
U13-918042	-2	-1	7	-7	-4	2
U13-926082	0	0	-2	1	3	5
Date Planted	5/22	5/15	5/13	5/6	5/23	5/22
Days to Mature	125	131	137	131	113	112

UNIFORM TEST II, 2016

MATURITY (date)

Strain	Britton MI	East Lansing MI	Lamberton MN	Waseca MN	Cotes- field NE
IA2102 (II)	9/25	10/6	10/7	10/7	
IA1022 (SCN)	6	3	-8	-5	
LD02-4485 (SCN)	1	1	-1	-3	
U11-920017	-1	1	5	1	
AR13-132037	4	2	-6	-4	
AR13-232106	3	1	-2	-1	
E12042	-12	3	5	2	
E13100	0	-1	-3	-4	
E13126	-6	2	0	-2	
E13132	-5	1	1	-1	
E13268	5	7	-9	-7	
E13298	-3	1	2	-4	
E13345	-9	0	0	-1	
E13364	2	1	-4	-3	
E13370	-1	2	-3	-1	
LD10-10198	-2	0	-2	-1	
LD11-643	-1	1	-2	-1	
M08-365100	5	4	-6	-7	
M09-278096	3	5	-3	-6	
MSC09-777143	-5	1	5	1	
U11-911079	1	2	-3	-3	
U13-603120	-6	-3	7	4	
U13-604147	-3	-2	8	3	
U13-609144	-4	-1	6	3	
U13-912010	1	1	-6	-3	
U13-912032	0	1	-3	-1	
U13-918042	4	2	-8	-6	
U13-926082	1	1	-3	-3	
Date Planted	5/24	5/17	5/23	6/2	
Days to Mature	124	142	137	127	

UNIFORM TEST II, 2016

MATURITY (date)

Strain	Mead NE	Worms NE	Hoytville OH	Wooster OH	Chatham ONT
IA2102 (II)	9/21	9/25	9/23	9/9	10/1
IA1022 (SCN)	1	-4	2	-10	-15
LD02-4485 (SCN)	1	-1	6	2	0
U11-920017	3	0	7	2	-6
AR13-132037	3	-2	2	-0	-16
AR13-232106	3	-2	5	0	-12
E12042	9	2	7	2	8
E13100	1	-2	2	1	4
E13126	2	0	3	1	-4
E13132	3	-2	3	2	-6
E13268	-2	-8	-1	-3	-16
E13298	6	-2	5	2	-7
E13345	7	0	5	4	-6
E13364	1	-2	2	0	-12
E13370	0	-2	4	2	-11
LD10-10198	3	0	4	4	-3
LD11-643	3	-1	2	3	-5
M08-365100	-2	-7	1	-10	-16
M09-278096	5	-7	3	-10	-14
MSC09-777143	1	-1	4	2	-3
U11-911079	1	-4	3	-2	-11
U13-603120	7	3	10	7	-1
U13-604147	6	0	5	7	-3
U13-609144	5	0	9	5	-8
U13-912010	2	-2	3	2	-12
U13-912032	5	-2	4	2	-5
U13-918042	3	-7	1	1	-15
U13-926082	4	-3	4	3	-8
Date Planted	6/3	6/1	5/28	5/20	5/19
Days to Mature	110	116	118	112	135

UNIFORM TEST II, 2016

LODGING (score)

Strain	Mean 14 Tests	Boone County IA	Boone IA	Monmouth IL	Urbana IL	West Lafayette IN
IA2102 (II)	2.7	3.0	2.8	2.8	2.3	4.7
IA1022 (SCN)	2.0	1.5	2.8	3.0	1.8	2.8
LD02-4485 (SCN)	2.0	2.0	2.5	3.0	2.3	3.2
U11-920017	1.7	1.0	2.3	2.3	2.3	2.5
AR13-132037	2.2	1.0	2.5	3.0	2.0	3.5
AR13-232106	2.0	1.0	2.0	2.3	1.8	3.3
E12042	3.1	2.0	2.5	3.8	2.8	3.8
E13100	2.1	1.5	2.8	2.3	1.8	2.8
E13126	2.7	3.0	2.8	3.3	2.0	3.3
E13132	2.8	2.0	2.5	3.0	2.8	3.5
E13268	1.9	1.0	2.0	1.8	1.5	3.7
E13298	2.4	1.0	2.5	2.5	1.8	4.0
E13345	2.5	1.5	2.3	3.0	2.5	3.7
E13364	2.7	2.0	2.5	3.8	2.0	4.8
E13370	2.2	2.0	2.3	2.8	1.8	3.2
LD10-10198	1.7	1.0	2.3	1.3	1.5	1.3
LD11-643	1.6	1.0	2.0	1.5	1.5	2.3
M08-365100	2.0	1.0	2.5	2.3	1.5	2.7
M09-278096	2.1	2.0	2.8	3.0	1.8	3.2
MSC09-777143	2.2	1.5	2.5	2.8	1.8	3.0
U11-911079	1.4	1.0	2.0	1.5	1.3	2.2
U13-603120	1.6	1.0	2.0	2.0	1.8	2.2
U13-604147	1.7	1.0	2.0	1.5	2.0	2.5
U13-609144	2.3	1.5	2.3	3.0	2.5	4.0
U13-912010	1.7	1.0	2.0	1.8	1.5	3.2
U13-912032	2.3	2.5	1.8	2.8	2.3	4.7
U13-918042	1.8	1.5	2.3	2.3	1.5	3.5
U13-926082	2.3	2.0	2.3	2.8	2.8	4.7

UNIFORM TEST II, 2016

LODGING (score)

Strain	Britton MI	East Lansing MI	Lamberton MN	Waseca MN	Cotes- field NE
IA2102 (II)	3.5	3.5	2.0	3.7	
IA1022 (SCN)	2.5	2.5	1.7	3.0	
LD02-4485 (SCN)	3.0	2.0	1.7	3.0	
U11-920017	2.0	1.5	2.3	3.0	
AR13-132037	3.0	2.5	2.0	3.0	
AR13-232106	3.0	1.5	1.3	3.0	
E12042	5.0	4.0	2.3	3.7	
E13100	2.0	2.5	1.7	3.0	
E13126	4.0	3.0	2.3	3.7	
E13132	3.5	4.0	2.3	4.0	
E13268	2.5	2.5	1.7	3.0	
E13298	4.0	3.5	2.7	3.0	
E13345	3.0	3.0	2.0	3.3	
E13364	4.0	3.0	2.0	3.7	
E13370	3.0	2.0	2.0	3.0	
LD10-10198	2.5	2.0	1.7	3.0	
LD11-643	3.0	1.0	1.3	3.0	
M08-365100	2.5	2.5	1.7	3.0	
M09-278096	2.0	2.5	2.0	3.0	
MSC09-777143	3.0	2.0	2.7	3.0	
U11-911079	1.5	1.5	1.3	2.0	
U13-603120	2.0	1.5	1.7	2.7	
U13-604147	2.0	2.0	2.0	3.0	
U13-609144	3.0	3.0	2.0	3.3	
U13-912010	2.0	2.5	1.3	2.7	
U13-912032	3.0	2.5	1.3	3.3	
U13-918042	2.5	1.5	2.0	3.0	
U13-926082	2.5	2.5	2.0	3.0	

UNIFORM TEST II, 2016

LODGING (score)

Strain	Mead NE	Worms NE	Hoytville OH	Wooster OH	Chatham ONT
IA2102 (II)	3.5	2.0	1.0	1.0	2.0
IA1022 (SCN)	1.0	1.0	1.0	1.0	3.0
LD02-4485 (SCN)	1.0	1.0	1.0	1.0	2.0
U11-920017	1.0	1.0	1.0	1.0	1.3
AR13-132037	1.0	2.0	1.0	1.0	3.3
AR13-232106	2.0	2.0	1.0	1.0	3.3
E12042	4.5	3.5	1.0	1.0	3.7
E13100	2.5	1.5	1.0	1.0	3.0
E13126	3.5	2.5	1.0	1.0	2.7
E13132	4.5	2.0	1.0	1.0	3.3
E13268	1.0	1.0	1.0	1.0	3.7
E13298	4.0	1.0	1.0	1.0	2.3
E13345	3.5	2.0	1.0	1.0	3.0
E13364	2.5	1.0	1.0	1.0	4.7
E13370	3.0	1.5	1.0	1.0	2.0
LD10-10198	3.0	1.5	1.0	1.0	1.0
LD11-643	1.0	1.5	1.0	1.0	1.7
M08-365100	2.0	1.0	1.0	1.0	3.0
M09-278096	1.0	1.0	1.0	1.0	3.0
MSC09-777143	1.0	1.5	1.0	1.0	3.7
U11-911079	1.0	1.0	1.0	1.0	1.0
U13-603120	1.0	1.5	1.0	1.0	1.0
U13-604147	1.0	1.5	1.0	1.0	1.0
U13-609144	1.0	1.5	1.0	1.0	2.7
U13-912010	1.0	1.5	1.0	1.0	2.0
U13-912032	2.0	1.5	1.0	1.0	2.0
U13-918042	1.0	1.5	1.0	1.0	1.0
U13-926082	2.0	1.5	1.0	1.0	2.3

UNIFORM TEST II, 2016

PLANT HEIGHT (inches)

Strain	Mean 13 Tests	Boone County IA	Boone IA	Monmouth IL	Urbana IL	West Lafayette IN
IA2102 (II)	37	34	39	36	37	41
IA1022 (SCN)	35	36	36	35	32	38
LD02-4485 (SCN)	37	39	44	39	37	42
U11-920017	35	33	37	38	35	39
AR13-132037	37	35	36	38	36	42
AR13-232106	33	31	37	34	33	37
E12042	40	39	41	39	41	44
E13100	38	37	40	36	37	41
E13126	40	41	42	39	36	45
E13132	41	39	38	39	41	46
E13268	34	32	32	32	32	39
E13298	42	41	48	43	38	47
E13345	38	36	39	37	33	41
E13364	36	36	34	39	33	39
E13370	35	37	36	33	33	39
LD10-10198	37	35	40	37	37	38
LD11-643	36	37	37	36	34	41
M08-365100	34	34	35	33	34	37
M09-278096	34	34	36	32	33	40
MSC09-777143	36	37	37	34	35	41
U11-911079	37	36	38	40	36	41
U13-603120	40	40	43	40	41	47
U13-604147	39	35	38	39	38	45
U13-609144	38	38	42	40	37	42
U13-912010	38	39	35	40	35	42
U13-912032	38	41	40	40	37	42
U13-918042	38	36	40	39	36	41
U13-926082	37	38	38	39	35	42

UNIFORM TEST II, 2016

PLANT HEIGHT (inches)

Strain	Britton MI	East Lansing MI	Lamberton MN	Waseca MN	Cotes- field NE
IA2102 (II)	40	33	35	43	
IA1022 (SCN)	33	36	38	41	
LD02-4485 (SCN)	37	33	35	41	
U11-920017	34	30	37	41	
AR13-132037	39	36	35	46	
AR13-232106	35	27	33	38	
E12042	44	40	44	49	
E13100	38	36	40	47	
E13126	45	35	45	50	
E13132	42	40	46	50	
E13268	36	28	35	41	
E13298	43	40	43	47	
E13345	41	36	40	44	
E13364	38	30	36	42	
E13370	39	29	35	41	
LD10-10198	36	35	38	41	
LD11-643	37	30	35	39	
M08-365100	35	29	35	41	
M09-278096	34	34	36	40	
MSC09-777143	38	31	40	42	
U11-911079	36	33	39	40	
U13-603120	40	40	40	47	
U13-604147	39	33	42	47	
U13-609144	42	34	37	43	
U13-912010	41	33	38	45	
U13-912032	38	34	41	44	
U13-918042	36	38	42	44	
U13-926082	40	33	38	43	

UNIFORM TEST II, 2016

PLANT HEIGHT (inches)

Strain	Mead NE	Worms NE	Hoytville OH	Wooster OH	Chatham ONT
IA2102 (II)	45		25	21	49
IA1022 (SCN)	43		24	19	46
LD02-4485 (SCN)	43		27	21	47
U11-920017	43		27	22	43
AR13-132037	46		25	24	48
AR13-232106	40		24	21	44
E12042	44		27	23	48
E13100	48		27	21	50
E13126	49		29	22	49
E13132	48		27	25	51
E13268	42		26	23	49
E13298	46		31	27	48
E13345	43		26	21	56
E13364	40		25	23	51
E13370	39		24	21	48
LD10-10198	43		29	20	47
LD11-643	41		25	25	51
M08-365100	43		21	18	47
M09-278096	38		25	21	44
MSC09-777143	40		25	17	48
U11-911079	43		27	21	47
U13-603120	50		27	21	51
U13-604147	45		27	24	52
U13-609144	42		29	22	48
U13-912010	44		25	21	51
U13-912032	41		28	23	49
U13-918042	43		27	24	46
U13-926082	47		23	21	49

UNIFORM TEST II, 2016

SEED SIZE (g/100)

Strain	Mean 13 Tests	Boone County IA	Boone IA	Monmouth IL	Urbana IL	West Lafayette IN
IA2102 (II)	17.2	15.5	14.4	16.2	14.8	17.5
IA1022 (SCN)	16.5	15.1	14.7	15.3	13.1	16.4
LD02-4485 (SCN)	15.7	13.8	13.7	13.7	14.3	15.2
U11-920017	18.2	16.2	15.1	16.4	16.8	17.0
AR13-132037	16.9	15.2	15.4	15.6	14.7	16.1
AR13-232106	15.8	14.0	13.3	15.3	13.3	15.7
E12042	15.9	14.0	13.3	14.7	15.0	14.0
E13100	19.6	17.5	17.6	18.3	17.6	20.0
E13126	15.9	13.9	14.1	14.8	13.9	15.2
E13132	15.9	13.8	13.2	15.9	14.4	14.5
E13268	16.1	14.1	13.8	14.8	13.3	16.6
E13298	18.8	16.1	15.8	16.1	16.6	17.9
E13345	15.5	13.4	13.3	14.6	13.2	15.6
E13364	17.1	15.1	14.2	15.8	15.1	15.7
E13370	15.9	13.9	13.1	15.5	14.3	16.6
LD10-10198	15.3	14.5	13.2	14.5	14.0	14.8
LD11-643	18.4	16.3	16.2	17.1	17.4	18.7
M08-365100	17.5	15.7	16.3	15.6	15.4	17.8
M09-278096	14.6	12.7	12.1	13.3	12.8	14.5
MSC09-777143	15.8	14.3	14.1	14.5	14.3	14.9
U11-911079	13.8	12.3	12.1	12.8	12.2	13.8
U13-603120	15.0	13.7	12.9	14.3	13.0	12.8
U13-604147	15.0	13.4	13.1	12.0	12.8	15.0
U13-609144	14.8	12.4	13.1	13.0	13.3	13.4
U13-912010	17.2	16.1	14.0	17.1	15.1	18.0
U13-912032	16.8	15.6	15.2	16.6	15.2	16.2
U13-918042	17.4	15.5	14.9	16.0	14.5	17.3
U13-926082	18.3	17.3	15.8	16.2	16.8	18.5

UNIFORM TEST II, 2016

SEED SIZE (g/100)

Strain	Britton MI	East Lansing MI	Lamberton MN	Waseca MN	Cotes- field NE
IA2102 (II)		20.4	17.0	18.6	19.2
IA1022 (SCN)		20.0	16.5	16.3	18.8
LD02-4485 (SCN)		19.4	16.7	16.1	17.7
U11-920017		21.3	19.0	18.9	19.3
AR13-132037		20.7	17.4	18.2	19.3
AR13-232106		18.4	16.2	16.6	17.8
E12042		16.9	16.0	15.9	18.5
E13100		23.4	19.9	20.1	22.8
E13126		18.6	15.9	16.1	17.4
E13132		18.3	16.4	16.6	17.1
E13268		19.8	16.2	16.5	16.6
E13298		21.8	19.2	18.9	19.5
E13345		17.6	15.9	16.2	17.4
E13364		20.8	17.0	17.6	18.0
E13370		19.0	16.0	15.8	16.3
LD10-10198		18.1	16.0	15.3	15.5
LD11-643		21.4	18.5	18.7	18.6
M08-365100		21.5	17.8	17.1	18.6
M09-278096		17.2	15.0	15.0	15.3
MSC09-777143		18.6	16.0	16.0	17.6
U11-911079		16.7	14.6	14.3	15.3
U13-603120		17.4	15.2	15.7	17.0
U13-604147		18.5	15.4	15.1	16.3
U13-609144		17.0	15.2	15.1	15.3
U13-912010		18.7	16.7	17.9	18.5
U13-912032		19.1	16.9	17.7	17.7
U13-918042		21.1	17.2	18.1	19.0
U13-926082		21.1	18.5	18.8	20.5

UNIFORM TEST II, 2016

SEED SIZE (g/100)

Strain	Mead NE	Worms NE	Hoytville OH	Wooster OH	Chatham ONT
IA2102 (II)	16.5		15.8	17.2	21.2
IA1022 (SCN)	15.1		15.8	17.6	19.6
LD02-4485 (SCN)	14.4		15.6	14.6	19.5
U11-920017	17.8		17.9	18.5	22.6
AR13-132037	16.5		16.0	14.7	19.5
AR13-232106	13.7		15.3	15.9	19.4
E12042	16.6		16.7	15.4	19.6
E13100	17.5		19.7	18.0	22.3
E13126	15.9		15.8	16.0	19.6
E13132	15.3		14.6	15.8	20.3
E13268	16.4		16.1	14.5	21.1
E13298	16.8		16.9	26.9	21.8
E13345	16.1		14.8	14.6	18.6
E13364	15.7		17.3	18.0	21.8
E13370	15.0		17.3	15.0	18.8
LD10-10198	14.0		15.8	15.5	18.2
LD11-643	19.0		17.5	18.1	21.5
M08-365100	16.2		18.2	16.7	20.8
M09-278096	14.1		14.9	13.1	19.1
MSC09-777143	15.3		16.6	13.3	20.2
U11-911079	13.6		12.7	11.9	16.7
U13-603120	14.9		15.7	14.0	18.1
U13-604147	14.7		14.9	14.6	19.1
U13-609144	13.6		14.5	13.9	23.1
U13-912010	17.7		15.3	17.2	21.6
U13-912032	16.0		16.3	14.9	20.9
U13-918042	18.0		17.2	16.6	20.7
U13-926082	18.2		17.1	18.1	21.4

UNIFORM TEST II, 2016

SEED QUALITY (score)

Strain	Mean 12 Tests	Boone County IA	Boone IA	Monmouth IL	Urbana IL	West Lafayette IN
IA2102 (II)	1.7	2.0	2.0	2.0	2.0	1.5
IA1022 (SCN)	1.7	2.0	2.0	2.0	2.0	1.0
LD02-4485 (SCN)	1.8	1.5	3.0	2.0	2.0	2.0
U11-920017	1.8	2.0	3.0	2.0	2.0	2.0
AR13-132037	1.7	1.0	2.0	2.0	2.0	1.5
AR13-232106	1.7	1.5	3.0	2.0	2.0	1.0
E12042	1.7	2.0	3.0	2.0	2.0	1.0
E13100	2.0	2.0	3.0	2.0	3.0	1.5
E13126	1.6	1.5	3.0	2.0	2.0	1.5
E13132	1.7	1.0	2.0	2.0	2.0	1.5
E13268	1.8	2.5	3.0	2.0	2.0	1.5
E13298	1.8	2.0	3.0	2.0	2.0	2.0
E13345	1.7	1.0	3.0	2.0	2.0	1.5
E13364	1.8	2.0	2.0	2.0	2.0	2.0
E13370	1.7	1.5	2.0	2.0	2.0	1.5
LD10-10198	1.6	1.0	2.0	2.0	2.0	1.5
LD11-643	1.6	1.0	2.0	2.0	2.0	1.0
M08-365100	1.8	1.5	2.0	2.0	2.0	1.5
M09-278096	1.8	2.0	2.0	2.0	2.0	2.0
MSC09-777143	2.2	2.5	3.0	2.0	3.0	2.0
U11-911079	1.8	2.0	3.0	2.0	2.0	1.5
U13-603120	1.5	2.0	3.0	1.0	2.0	1.0
U13-604147	1.6	2.0	3.0	2.0	2.0	1.5
U13-609144	1.5	1.0	2.0	2.0	2.0	1.5
U13-912010	2.0	2.0	3.0	2.0	2.0	1.5
U13-912032	1.8	2.0	2.0	2.0	2.0	2.0
U13-918042	1.7	2.0	2.0	2.0	2.0	1.5
U13-926082	2.0	3.0	3.0	2.0	2.0	2.0

UNIFORM TEST II, 2016

SEED QUALITY (score)

Strain	Britton MI	East Lansing MI	Lamberton MN	Waseca MN	Cotes- field NE
IA2102 (II)			2.0	2.0	1.0
IA1022 (SCN)			2.3	2.0	1.0
LD02-4485 (SCN)			1.3	1.3	1.0
U11-920017			2.0	2.7	1.0
AR13-132037			2.0	2.0	1.0
AR13-232106			2.0	1.3	1.0
E12042			2.0	1.3	1.0
E13100			2.0	2.0	1.0
E13126			1.7	1.7	1.0
E13132			2.7	1.7	1.0
E13268			2.0	1.3	1.0
E13298			2.0	1.7	1.0
E13345			2.0	1.3	1.0
E13364			1.3	2.0	1.0
E13370			1.3	1.3	1.0
LD10-10198			2.0	2.0	1.0
LD11-643			2.0	1.3	1.0
M08-365100			1.3	1.3	2.0
M09-278096			2.0	2.0	2.0
MSC09-777143			2.0	1.7	2.0
U11-911079			1.3	2.0	2.0
U13-603120			1.0	1.0	1.0
U13-604147			1.3	2.0	1.0
U13-609144			2.0	1.3	1.0
U13-912010			1.3	2.0	2.0
U13-912032			1.3	2.0	1.0
U13-918042			1.7	1.0	1.0
U13-926082			2.0	1.7	1.0

UNIFORM TEST II, 2016

SEED QUALITY (score)

Strain	Mead NE	Worms NE	Hoytville OH	Wooster OH	Chatham ONT
IA2102 (II)	1.0		2.0	2.0	1.0
IA1022 (SCN)	1.0		2.0	2.0	1.0
LD02-4485 (SCN)	1.0		2.0	3.0	1.0
U11-920017	1.0		2.0	1.0	1.0
AR13-132037	1.0		2.0	3.0	1.0
AR13-232106	1.0		2.0	2.0	1.0
E12042	1.0		2.0	2.0	1.0
E13100	1.0		2.0	4.0	1.0
E13126	1.0		1.0	2.0	1.0
E13132	2.0		1.0	2.0	1.0
E13268	1.0		1.0	3.0	1.0
E13298	1.0		2.0	2.0	1.0
E13345	1.0		2.0	3.0	1.0
E13364	1.0		2.0	3.0	1.0
E13370	2.0		2.0	3.0	1.0
LD10-10198	1.0		3.0	1.0	1.0
LD11-643	1.0		2.0	3.0	1.0
M08-365100	2.0		2.0	3.0	1.0
M09-278096	2.0		2.0	1.0	1.0
MSC09-777143	2.0		2.0	3.0	1.0
U11-911079	1.0		1.0	3.0	1.0
U13-603120	2.0		1.0	2.0	1.0
U13-604147	1.0		1.0	1.0	1.0
U13-609144	1.0		2.0	1.0	1.0
U13-912010	2.0		2.0	3.0	1.0
U13-912032	1.0		2.0	3.0	1.0
U13-918042	2.0		2.0	2.0	1.0
U13-926082	1.0		2.0	3.0	1.0

UNIFORM TEST II, 2016

PROTEIN (%)

Strain	Mean 8 Tests	Mon- mouth IL	Urbana IL	West Lafayette IN	Lamber- ton MN	Waseca MN	Mead NE	Hoytville OH	Chatham ONT
IA2102 (II)	35.8	35.4	34.8	35.4	35.8	34.5	34.4	35.1	40.7
IA1022 (SCN)	34.1	33.9	32.1	33.1	34.0	32.1	33.3	35.3	39.2
LD02-4485 (SCN)	33.8	32.6	33.4	32.9	33.8	33.2	33.0	33.8	38.2
U11-920017	34.0	32.8	32.9	33.4	33.6	33.2	33.9	33.5	38.5
AR13-132037	35.6	34.6	34.9	35.0	36.4	35.6	34.5	33.3	40.7
AR13-232106	35.8	35.3	34.0	34.7	35.7	34.7	34.6	35.1	42.0
E12042	34.8	34.0	33.6	34.0	34.7	33.8	34.2	34.6	39.6
E13100	35.7	35.4	35.0	35.3	35.3	34.7	34.6	35.2	40.3
E13126	35.3	35.2	33.5	34.3	35.3	34.0	34.5	35.1	40.4
E13132	35.4	35.0	34.5	34.5	35.0	34.2	34.5	34.9	40.4
E13268	34.5	34.0	32.4	34.3	34.2	33.2	34.5	33.5	39.6
E13298	35.5	34.2	34.9	35.4	35.3	33.7	34.5	35.3	40.4
E13345	35.6	34.7	35.2	34.7	35.7	35.0	34.8	35.0	39.7
E13364	36.5	35.6	36.0	36.1	36.3	34.8	35.3	36.2	41.9
E13370	36.0	35.9	35.3	35.2	36.1	34.5	34.8	35.6	40.9
LD10-10198	35.4	34.5	33.8	34.7	35.2	34.7	34.8	34.9	40.4
LD11-643	33.9	33.1	32.9	32.6	33.9	33.0	33.8	33.9	38.3
M08-365100	35.4	34.1	33.5	34.1	35.8	34.5	34.7	35.6	41.0
M09-278096	33.4	32.4	32.0	32.7	33.9	31.9	32.6	33.3	38.2
MSC09-777143	33.5	32.7	32.9	32.5	33.5	32.8	32.2	33.5	38.2
U11-911079	34.7	33.6	33.6	34.3	35.2	33.0	33.7	34.0	40.2
U13-603120	34.7	33.9	33.9	34.1	34.2	33.4	34.5	34.1	39.9
U13-604147	34.8	33.7	33.6	34.4	34.5	33.4	33.9	34.1	40.9
U13-609144	34.0	33.4	32.9	33.7	33.8	33.1	33.2	32.4	39.5
U13-912010	34.9	34.0	32.4	34.7	35.3	34.8	34.6	33.9	39.9
U13-912032	34.9	35.4	33.0	34.2	35.3	34.0	34.0	34.5	38.9
U13-918042	35.0	33.9	32.1	34.3	35.5	34.6	33.9	34.7	40.8
U13-926082	35.4	34.9	34.4	34.6	35.4	33.9	34.6	35.5	40.2

UNIFORM TEST II, 2016

OIL (%)

Strain	Mean 8 Tests	Mon- mouth IL	Urbana IL	West Lafayette IN	Lamber- ton MN	Waseca MN	Mead NE	Hoytville OH	Chatham ONT
IA2102 (II)	19.2	18.8	19.6	19.7	17.9	18.6	18.7	19.6	20.8
IA1022 (SCN)	20.8	20.7	21.7	21.4	19.1	19.8	20.0	20.2	23.1
LD02-4485 (SCN)	19.8	19.9	20.0	20.6	18.2	18.6	19.2	19.9	21.8
U11-920017	20.3	20.6	21.0	20.8	18.6	18.9	19.7	20.5	22.6
AR13-132037	19.3	19.6	19.6	19.7	17.4	18.2	18.8	20.2	21.2
AR13-232106	19.4	19.6	19.9	20.2	18.1	18.2	17.8	19.6	22.2
E12042	19.8	20.1	20.6	20.3	18.5	18.7	19.1	19.6	21.3
E13100	20.2	20.1	20.5	20.5	18.7	19.3	19.4	20.3	23.0
E13126	19.6	19.7	20.6	20.4	18.0	18.8	19.2	19.9	20.4
E13132	20.0	19.8	20.5	20.4	18.3	18.8	19.1	19.9	22.7
E13268	19.7	19.6	20.3	20.0	18.1	18.7	18.5	20.5	21.8
E13298	19.8	20.0	20.1	20.1	18.2	18.7	18.8	19.8	22.7
E13345	19.7	20.0	20.3	20.4	18.1	18.6	19.0	20.1	20.8
E13364	19.3	19.3	19.5	19.3	17.8	18.7	18.4	19.5	21.9
E13370	18.9	18.9	19.2	19.3	17.6	18.0	18.0	19.4	20.6
LD10-10198	19.1	19.2	19.9	19.8	17.6	17.7	18.0	19.5	21.0
LD11-643	20.5	20.6	21.2	21.2	18.8	19.2	19.6	20.8	22.9
M08-365100	20.6	20.7	21.3	21.3	19.1	19.6	19.6	20.5	22.4
M09-278096	20.5	20.5	21.3	21.2	18.7	19.4	19.9	20.9	21.6
MSC09-777143	20.6	20.4	20.7	21.3	19.1	19.5	20.3	20.7	22.5
U11-911079	18.9	19.0	19.3	19.3	17.4	17.9	18.2	19.5	20.7
U13-603120	19.6	19.9	20.2	20.1	18.4	18.4	18.9	20.0	20.6
U13-604147	19.9	20.3	20.3	20.4	18.2	18.7	19.2	20.3	21.6
U13-609144	20.4	20.6	21.2	21.1	18.6	19.2	19.1	20.9	22.0
U13-912010	20.3	20.4	21.2	20.6	18.8	18.6	19.3	20.5	23.1
U13-912032	20.4	20.2	21.6	21.0	18.7	19.0	19.6	20.3	22.9
U13-918042	20.5	20.4	21.6	20.9	18.5	18.9	19.7	20.4	23.2
U13-926082	20.1	20.3	20.8	20.9	18.6	19.3	19.7	20.0	20.9

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PRELIMINARY TEST IIA, 2016

Ent.	Strain	Parentage	Seed Source	Gen. Comp.	Unique Traits
1	IA2102 (II)	A04-545045 x AgriPro 98180-A01-0613	Fehr	F4	
2	IA1022 (SCN)	Dairyland 98822 x A00-711024	Fehr	F5	SCN
3	LD02-4485 (SCN)	M90-184111 x IA3010	Diers	F5	SCN
4	U11-920017	HS5-3417 x LD02- 4485	Graef	F6	Rps Resis.
5	DSN11-12073	IA3023 x LD02-4485	Diers/Rainey		
6	DSN11-12119	IA3023 x LD02-4485	Diers/Rainey		
7	E13901	E11955 x E07051	Wang	F5	SCN
8	E13902	E11955 x E07051	Wang	F5	SCN
9	E13903	E11955 x LD08-12430a	Wang	F5	SCN
10	E14077	U03-300134 x E07051	Wang	F5	SCN
11	E14141	LG04-4468 x U02-242055	Wang	F5	SCN
12	E14143	LG04-4468 x U02-242055	Wang	F5	SCN
13	E14148	LG05-2359 x U03-100612	Wang	F5	SCN
14	E14208	E10906 x E07048	Wang	F5	SCN
15	E14273	E05226-T x E09014	Wang	F5	SCN
16	E14309	E07051 x E11358	Wang	F5	SCN
17	E14314	E07051 x E11358	Wang	F5	SCN
18	E14703	U01-390489 x E07080	Wang	F5	SCN
19	HM13-W154		McHale	F4	
20	HM13-W156		McHale	F4	
21	LD13-4902a	LD08-12446a x Dairyland 75467	Diers	F5	Rag 2
22	LD13-6692	LD07-3395 x Dairyland 75334	Diers	F5	
23	M11-123087	MN1410 x 236FHP	Lorenz	F5	YLD
24	M11-124010	MN1410 x 289.TC	Lorenz	F5	YLD

PRELIMINARY TEST IIA, 2016

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	IDC Score		Shattering Score
		Lamber-ton	Waseca	Man-hattan
IA2102 (II)	WGTYYYI	3.3	3.3	3.0
IA1022 (SCN)	PGTSYYI	3.5	3.5	5.0
LD02-4485 (SCN)	WGTDYLBfI	3.8	3.8	3.0
U11-920017	WGBIYBfI	3.3	3.3	2.0
DSN11-12073	WGTSYBfI	3.0	3.0	2.0
DSN11-12119	PGTDYBfI	3.0	3.0	2.0
E13901	WTBTYBI	4.3	4.3	5.0
E13902	P+WGTSYDbfI	4.3	4.3	4.0
E13903	P+WT+GT+BSYBfI	2.8	2.8	5.0
E14077	PGTSYDibI	4.3	4.3	4.0
E14141	WTBSYDibI	4.3	4.3	2.0
E14143	P+WTBSYBI	3.3	3.3	2.0
E14148	PGTIYDbfI	3.5	3.5	2.0
E14208	PTBSYGI	4.0	4.0	3.0
E14273	PGTIYGI	3.5	3.5	3.0
E14309	WGTSYBfI	3.5	3.5	4.0
E14314	WGTYBfI	3.8	3.8	5.0
E14703	WGTSYBfI	3.8	3.8	3.0
HM13-W154	PGTSYDibI	3.8	3.8	2.0
HM13-W156	PGTSYDibI	4.8	4.8	2.0
LD13-4902a	PGTDYBfI	3.5	3.5	3.0
LD13-6692	WGBTYDibI	2.8	2.8	2.0
M11-123087	P+WTBDYBI	2.8	2.8	1.0
M11-124010	WGB+TSYBfI	3.3	3.3	5.0

PRELIMINARY TEST IIA, 2016

REGIONAL SUMMARY

No. of Tests Strain	Yield 13 bu/a	Rank 13 No.	Maturity 12 Date	Lodging 12 Score	Plant Height 11 In.	Seed Size 12 g/100	Seed Quality 11 Score	Composition	
								Protein 7 %	Oil 7 %
IA2102 (II)	64.8	12	9/25	2.3	37	17.3	1.6	35.2	19.5
IA1022 (SCN)	64.0	14	-4.0	1.7	35	16.5	1.7	34.1	21.0
LD02-4485 (SCN)	68.6	6	0.3	1.8	37	15.8	1.9	33.5	19.8
U11-920017	69.1	5	2.0	1.8	34	18.0	1.7	34.0	20.1
DSN11-12073	69.2	4	1.5	1.8	34	17.4	1.5	35.7	19.5
DSN11-12119	71.5	1	2.9	1.7	37	15.6	1.5	34.3	19.7
E13901	60.5	21	-1.1	2.5	38	19.1	1.8	36.2	19.7
E13902	61.0	20	0.4	1.5	33	18.6	1.7	35.9	19.6
E13903	49.3	24	-0.8	1.5	36	17.5	1.7	35.7	19.5
E14077	69.6	2	1.4	1.6	38	17.1	1.7	35.1	19.6
E14141	64.6	13	-1.4	1.6	37	17.3	1.4	36.3	19.4
E14143	63.6	16	-0.5	1.6	34	17.7	1.5	36.2	20.0
E14148	67.3	10	2.0	2.3	38	16.8	1.5	34.9	19.9
E14208	61.4	18	2.8	1.6	36	16.1	2.0	35.2	19.4
E14273	58.7	23	-2.5	1.5	35	20.1	1.8	36.6	19.2
E14309	67.6	9	4.0	2.3	38	17.4	1.7	34.7	19.3
E14314	67.7	8	1.4	2.0	35	18.3	1.8	35.0	20.3
E14703	62.2	17	4.8	2.3	40	20.6	1.5	35.5	20.0
HM13-W154	66.4	11	1.2	1.5	36	18.8	1.3	35.2	20.0
HM13-W156	64.0	14	1.6	1.9	35	18.8	1.3	35.8	19.8
LD13-4902a	68.2	7	1.3	1.6	35	17.2	1.6	35.5	19.8
LD13-6692	69.5	3	3.0	1.7	37	17.4	1.5	34.9	19.5
M11-123087	59.4	22	-2.3	1.5	34	15.4	1.7	37.4	19.3
M11-124010	61.4	18	0.2	2.0	39	16.8	1.5	35.5	20.4
Mean	61.6			1.8	36.1	16.8	1.4		
C.V. (%)	11.1			34.0	8.6	5.4	31.6		
L.S.D. (5%)	3.7			4.0	1.8	0.7	0.3		

124.9 Days After Planting

PRELIMINARY TEST IIA, 2016

YIELD (bu/a)

Strain	Mean 13 Tests	Boone County IA	Boone IA	Urbana IL	West Lafayette IN	East Lansing MI	Lamber- ton MN
IA2102 (II)	64.8	72.3	71.8	58.9	54.3	73.7	56.8
IA1022 (SCN)	64.0	59.0	68.8	58.5	47.0	70.8	43.6
LD02-4485 (SCN)	68.6	70.7	66.8	65.1	64.8	76.5	60.5
U11-920017	69.1	71.5	51.4	68.2	60.1	84.5	50.8
DSN11-12073	69.2	73.4	67.2	64.7	62.9	83.0	46.0
DSN11-12119	71.5	71.7	73.6	74.5	63.0	76.1	53.1
E13901	60.5	45.1	61.0	53.9	46.2	61.8	52.6
E13902	61.0	51.4	61.4	52.8	55.4	75.0	56.6
E13903	49.3	34.5	33.3	27.1	52.5	60.6	49.9
E14077	69.6	71.8	74.7	73.3	59.9	82.0	58.3
E14141	64.6	58.1	50.2	63.4	60.2	70.3	53.8
E14143	63.6	56.8	41.3	57.7	57.5	76.3	55.2
E14148	67.3	70.9	70.7	70.1	58.7	65.5	44.0
E14208	61.4	57.4	53.1	57.3	53.5	64.9	53.3
E14273	58.7	56.5	52.2	60.8	52.7	62.0	56.4
E14309	67.6	63.3	58.0	69.3	58.7	68.0	54.5
E14314	67.7	57.1	68.4	58.5	64.0	80.2	68.1
E14703	62.2	62.6	58.7	57.9	58.6	69.5	54.2
HM13-W154	66.4	72.2	50.6	68.7	66.0	69.4	55.2
HM13-W156	64.0	67.7	51.9	63.5	57.7	70.6	48.1
LD13-4902a	68.2	67.0	54.9	65.9	56.0	80.9	60.0
LD13-6692	69.5	73.3	59.3	64.3	59.5	74.2	46.9
M11-123087	59.4	55.3	54.0	58.8	54.9	57.8	61.5
M11-124010	61.4	53.3	46.3	54.6	56.9	66.7	61.1
Location Mean		62.2	58.3	61.2	57.6	71.7	54.2
C.V. (%)		4.3	8.2	7.3	6.7	6.5	10.0
L.S.D. (5%)		5.5	9.9	9.2	8.0	11.6	11.3
Row Sp. (In.)		30	30	30	30	30	30
Rows/Plot		4	4	4	4	4	4
Reps		2	2	2	2	2	2

PRELIMINARY TEST IIA, 2016

YIELD (bu/a)

Strain	Waseca MN	Cotes- field NE	Mead NE	Worms NE	Hoyt- ville OH	Wooster* OH	Chatham ONT
IA2102 (II)	54.0	86.6	64.1	83.7	60.3	17.0	41.3
IA1022 (SCN)	63.0	94.5	72.9	87.8	55.6	15.7	46.9
LD02-4485 (SCN)	57.8	84.7	73.7	88.6	67.6	24.8	46.9
U11-920017	62.5	102.8	74.6	81.9	73.6	29.4	47.3
DSN11-12073	60.8	105.0	70.5	88.3	65.7	29.1	43.0
DSN11-12119	59.2	107.5	80.7	88.4	63.5	26.7	46.7
E13901	48.8	87.7	88.6	84.7	51.1	32.6	44.0
E13902	48.8	84.8	62.5	80.0	56.1	30.2	47.7
E13903	45.5	67.2	53.9	78.7	48.9	22.1	39.9
E14077	57.6	89.7	77.4	78.5	63.3	24.3	48.9
E14141	56.6	90.2	73.3	90.9	63.7	30.3	45.0
E14143	62.2	90.8	71.1	86.8	63.8	30.5	44.2
E14148	55.0	101.3	72.1	84.6	70.3	37.8	45.0
E14208	54.2	86.6	68.3	84.3	62.8	23.4	40.4
E14273	50.2	77.3	68.9	73.9	55.8	35.6	37.2
E14309	56.0	93.2	80.7	90.3	77.0	38.8	41.8
E14314	51.2	92.1	74.9	87.2	63.9	20.7	46.8
E14703	52.5	85.0	63.2	76.0	67.3	39.1	40.6
HM13-W154	53.6	91.8	76.1	82.3	65.3	32.3	45.7
HM13-W156	52.5	89.1	75.2	87.0	60.3	37.5	43.9
LD13-4902a	58.3	98.9	67.8	89.9	72.4	28.0	46.4
LD13-6692	59.6	107.4	81.0	87.4	70.4	34.0	50.2
M11-123087	47.7	84.5	63.7	82.9	52.4	18.9	39.0
M11-124010	56.8	91.8	70.2	84.9	48.3	30.1	45.3
Location Mean	55.2	91.3	71.9	84.5	62.5	28.7	44.3
C.V. (%)	8.9	6.8	9.6	7.0	10.2	30.7	8.9
L.S.D. (5%)	10.2	15.3	17.0	14.5	13.2	16.2	6.7
Row Sp. (In.)	30	30	30	30	7.5	7.5	17
Rows/Plot	4	4	4	4	8	8	5
Reps	2	2	2	2	2	2	2

* Data not included in the mean.

PRELIMINARY TEST IIA, 2016

YIELD RANK

Strain	Yield Rank	Boone County IA	Boone IA	Urbana IL	West Lafayette IN	East Lansing MI	Lambert-ton MN
IA2102 (II)	12	3	3	14	19	11	7
IA1022 (SCN)	14	14	5	16	23	12	24
LD02-4485 (SCN)	6	9	8	8	2	6	4
U11-920017	5	7	19	6	7	1	18
DSN11-12073	4	1	7	9	5	2	22
DSN11-12119	1	6	2	1	4	8	16
E13901	21	23	10	22	24	22	17
E13902	20	22	9	23	17	9	8
E13903	24	24	24	24	22	23	19
E14077	2	5	1	2	8	3	6
E14141	13	15	21	12	6	14	14
E14143	16	18	23	19	14	7	11
E14148	10	8	4	3	10	19	23
E14208	18	16	16	20	20	20	15
E14273	23	19	17	13	21	21	9
E14309	9	12	13	4	10	17	12
E14314	8	17	6	16	3	5	1
E14703	17	13	12	18	12	15	13
HM13-W154	11	4	20	5	1	16	10
HM13-W156	14	10	18	11	13	13	20
LD13-4902a	7	11	14	7	16	4	5
LD13-6692	3	2	11	10	9	10	21
M11-123087	22	20	15	15	18	24	2
M11-124010	18	21	22	21	15	18	3

PRELIMINARY TEST IIA, 2016

YIELD RANK

Strain	Waseca MN	Cotes- field NE	Mead NE	Worms NE	Hoyt- ville OH	Wooster OH	Chatham ONT
IA2102 (II)	15	18	20	16	16	23	19
IA1022 (SCN)	1	7	12	7	19	24	5
LD02-4485 (SCN)	8	21	10	4	6	17	6
U11-920017	2	4	9	19	2	13	4
DSN11-12073	4	3	15	6	8	14	17
DSN11-12119	6	1	4	5	13	16	8
E13901	21	16	1	13	21	7	15
E13902	22	20	23	20	17	11	3
E13903	24	24	24	21	22	20	22
E14077	9	14	5	22	14	18	2
E14141	11	13	11	1	12	10	12
E14143	3	12	14	11	11	9	14
E14148	13	5	13	14	5	3	13
E14208	14	18	18	15	15	19	21
E14273	20	23	17	24	18	5	24
E14309	12	8	4	2	1	2	18
E14314	19	9	8	9	10	21	7
E14703	17	19	22	23	7	1	20
HM13-W154	16	11	6	18	9	8	10
HM13-W156	18	15	7	10	16	4	16
LD13-4902a	7	6	19	3	3	15	9
LD13-6692	5	2	2	8	4	6	1
M11-123087	23	22	21	17	20	22	23
M11-124010	10	11	16	12	23	12	11

PRELIMINARY TEST IIA, 2016

MATURITY (date)

Strain	Mean 12 Tests	Boone County IA	Boone IA	Urbana IL	West Lafayette IN	East Lansing MI	Lamber- ton MN
IA2102 (II)	9/25	9/26	9/26	9/14	9/13	10/6	10/7
IA1022 (SCN)	-4	-7	7	-6	-7	3	-8
LD02-4485 (SCN)	0	1	-3	7	4	0	-0
U11-920017	2	4	-5	7	2	1	4
DSN11-12073	2	2	-4	6	1	1	3
DSN11-12119	3	6	-8	8	3	0	2
E13901	-1	-7	6	1	2	3	-7
E13902	0	-1	1	1	-1	-1	-13
E13903	-1	-4	7	-2	-1	4	-0
E14077	1	3	-3	4	4	1	6
E14141	-1	-6	7	-3	1	6	5
E14143	-1	-4	4	-2	5	3	4
E14148	2	1	-4	6	3	-2	10
E14208	3	-1	-4	3	5	1	7
E14273	-2	-9	9	-7	1	4	7
E14309	4	2	-7	7	5	-1	5
E14314	1	-3	2	4	8	0	9
E14703	5	4	-5	6	7	-1	11
HM13-W154	1	2	-4	2	4	1	7
HM13-W156	2	0	-2	3	5	2	2
LD13-4902a	1	2	-5	8	3	1	3
LD13-6692	3	2	-5	6	5	0	5
M11-123087	-2	-8	7	-6	3	7	2
M11-124010	0	-5	6	-2	-1	1	1
Date Planted	5/23	5/15	5/13	5/23	5/22	5/17	5/23
Days to Mature	125	134	136	114	114	142	137

PRELIMINARY TEST IIA, 2016

MATURITY (date)

Strain	Waseca MN	Cotes- field NE	Mead NE	Worms NE	Hoyt- ville OH	Wooster OH	Chatham ONT
IA2102 (II)	10/7		9/24	9/22	9/26	9/6	10/5
IA1022 (SCN)	-4		-3	-2	-4	-7	-11
LD02-4485 (SCN)	-2		-3	1	2	3	-5
U11-920017	3		3	4	1	5	-4
DSN11-12073	-1		1	3	3	8	-4
DSN11-12119	2		4	3	5	9	2
E13901	-4		-1	0	0	5	-11
E13902	-3		1	2	7	11	1
E13903	-5		-4	3	-1	2	-9
E14077	-1		0	5	3	5	-10
E14141	-6		-4	-3	-3	1	-12
E14143	-4		-2	-2	1	6	-14
E14148	-0		3	2	2	9	-5
E14208	-2		3	3	3	5	12
E14273	-9		-6	-3	-3	0	-13
E14309	4		5	2	7	13	7
E14314	-6		-2	3	2	5	-5
E14703	6		3	5	4	11	8
HM13-W154	-3		1	4	2	8	-9
HM13-W156	-3		2	4	4	9	-6
LD13-4902a	-1		2	3	4	6	-11
LD13-6692	4		5	3	3	9	-1
M11-123087	-8		-5	-2	-4	1	-15
M11-124010	-4		-3	0	2	6	1
Date Planted	6/2		6/3	6/1	5/28	5/20	5/19
Days to Mature	127		113	113	121	109	139

PRELIMINARY TEST IIA, 2016

LODGING (score)

Strain	Mean 12 Tests	Boone County IA	Boone IA	Urbana IL	West Lafayette IN	East Lansing MI	Lamber- ton MN
IA2102 (II)	2.3	2.0	2.5	1.8	4.0	3.0	1.5
IA1022 (SCN)	1.7	2.0	1.8	1.5	1.3	2.5	1.0
LD02-4485 (SCN)	1.8	2.0	2.5	2.3	2.8	2.5	2.0
U11-920017	1.8	2.0	2.5	2.3	2.3	2.0	1.0
DSN11-12073	1.8	2.0	2.3	1.5	1.8	2.5	1.5
DSN11-12119	1.7	2.0	2.5	2.0	1.8	3.0	1.0
E13901	2.5	2.0	2.8	2.5	4.0	3.0	2.0
E13902	1.5	1.0	1.5	1.3	1.8	1.5	2.0
E13903	1.5	1.0	1.5	1.5	1.8	2.5	1.5
E14077	1.6	1.0	2.3	1.8	1.3	2.0	2.0
E14141	1.6	1.0	1.8	1.5	1.8	2.0	2.0
E14143	1.6	1.0	2.0	1.5	2.3	2.0	1.0
E14148	2.3	2.0	2.3	2.3	2.5	3.0	2.0
E14208	1.6	1.0	2.0	1.8	1.5	2.0	2.0
E14273	1.5	1.0	2.0	1.3	1.8	1.5	1.0
E14309	2.3	2.5	2.3	2.0	2.5	3.0	2.0
E14314	2.0	1.5	2.3	1.8	3.3	3.0	2.0
E14703	2.3	2.0	2.5	2.3	4.3	3.5	1.5
HM13-W154	1.5	1.0	2.0	1.5	3.0	1.5	1.0
HM13-W156	1.9	2.0	2.0	2.0	5.0	2.0	1.0
LD13-4902a	1.6	1.5	2.0	2.0	1.3	2.5	1.5
LD13-6692	1.7	1.5	2.5	1.5	1.3	1.5	1.0
M11-123087	1.5	1.0	2.0	1.0	2.5	1.5	1.0
M11-124010	2.0	2.5	2.0	2.0	4.0	3.0	1.0

PRELIMINARY TEST IIA, 2016

LODGING (score)

Strain	Waseca MN	Cotes- field NE	Mead NE	Worms NE	Hoyt- ville OH	Wooster OH	Chatham ONT
IA2102 (II)	3.5		2.0	2.0	1.0	1.0	3.0
IA1022 (SCN)	3.0		1.0	1.5	1.0	1.0	3.0
LD02-4485 (SCN)	2.5		1.0	1.5	1.0	1.0	1.0
U11-920017	3.0		1.0	1.5	1.0	1.0	2.0
DSN11-12073	3.0		2.0	1.5	1.0	1.0	2.0
DSN11-12119	3.0		1.0	1.5	1.0	1.0	1.0
E13901	4.0		2.5	2.0	1.0	1.0	3.5
E13902	3.0		1.0	1.5	1.0	1.0	2.0
E13903	2.5		1.0	1.5	1.0	1.0	1.5
E14077	3.0		1.0	2.0	1.0	1.0	1.0
E14141	3.0		1.0	1.5	1.0	1.0	1.5
E14143	3.0		2.0	1.5	1.0	1.0	1.5
E14148	4.0		2.5	1.0	1.0	1.0	3.5
E14208	2.5		1.0	1.5	1.0	1.0	1.5
E14273	3.0		1.0	1.5	1.0	1.0	1.5
E14309	3.0		2.5	2.5	1.0	1.0	3.0
E14314	3.0		1.0	2.0	1.0	1.0	2.5
E14703	3.5		2.0	1.5	1.0	1.0	3.0
HM13-W154	3.0		1.0	1.5	1.0	1.0	1.0
HM13-W156	3.5		1.0	1.5	1.0	1.0	1.0
LD13-4902a	3.0		1.0	1.5	1.0	1.0	1.5
LD13-6692	3.0		3.0	1.5	1.0	1.0	1.5
M11-123087	2.5		1.0	2.0	1.0	1.0	1.0
M11-124010	3.0		1.0	2.0	1.0	1.0	1.5

PRELIMINARY TEST IIA, 2016

PLANT HEIGHT (inches)

Strain	Mean 11 Tests	Boone County IA	Boone IA	Urbana IL	West Lafayette IN	East Lansing MI	Lamber- ton MN
IA2102 (II)	37	37	41	33	41	34	36
IA1022 (SCN)	35	32	34	33	38	33	31
LD02-4485 (SCN)	37	38	41	34	40	32	32
U11-920017	34	34	36	33	38	30	29
DSN11-12073	34	33	36	31	36	30	34
DSN11-12119	37	40	40	37	40	32	32
E13901	38	36	42	34	40	35	39
E13902	33	33	35	33	33	29	35
E13903	36	34	33	32	39	35	35
E14077	38	39	35	36	41	36	42
E14141	37	30	33	35	41	36	41
E14143	34	27	30	31	36	33	39
E14148	38	38	37	36	42	35	42
E14208	36	35	36	33	37	30	41
E14273	35	33	35	33	37	33	40
E14309	38	38	41	33	42	32	40
E14314	35	35	37	33	38	30	35
E14703	40	42	42	38	48	36	34
HM13-W154	36	38	34	33	38	27	37
HM13-W156	35	39	36	33	41	28	33
LD13-4902a	35	38	37	34	36	32	36
LD13-6692	37	39	36	35	43	32	32
M11-123087	34	33	33	33	39	30	34
M11-124010	39	37	40	40	50	40	35

PRELIMINARY TEST IIA, 2016

PLANT HEIGHT (inches)

Strain	Waseca MN	Cotes- field NE	Mead NE	Worms NE	Hoyt- ville OH	Wooster OH	Chatham ONT
IA2102 (II)	42		43		31	16	52
IA1022 (SCN)	44		44		24	17	51
LD02-4485 (SCN)	46		45		27	20	49
U11-920017	42		42		26	20	47
DSN11-12073	39		41		26	19	51
DSN11-12119	45		44		27	22	48
E13901	47		44		29	19	50
E13902	38		37		27	20	47
E13903	42		46		26	22	51
E14077	43		44		28	21	53
E14141	42		44		28	22	55
E14143	39		39		27	21	50
E14148	45		42		30	24	51
E14208	43		41		29	20	51
E14273	41		36		27	26	50
E14309	50		45		33	19	52
E14314	41		39		27	19	49
E14703	50		48		31	23	54
HM13-W154	41		44		27	23	50
HM13-W156	40		42		28	21	48
LD13-4902a	38		41		29	21	45
LD13-6692	45		46		29	21	49
M11-123087	39		40		26	20	49
M11-124010	43		45		31	20	52

PRELIMINARY TEST IIA, 2016

SEED SIZE (g/100)

Strain	Mean 12 Tests	Boone County IA	Boone IA	Urbana IL	West Lafayette IN	East Lansing MI	Lamber- ton MN
IA2102 (II)	17.3	15.7	15.8	15.0	16.6	21.8	17.3
IA1022 (SCN)	16.5	14.2	14.6	14.7	14.9	21.1	15.7
LD02-4485 (SCN)	15.8	14.5	13.1	13.4	15.0	20.0	16.1
U11-920017	18.0	15.6	16.0	16.1	16.7	23.2	17.8
DSN11-12073	17.4	16.1	15.5	16.5	16.0	22.2	18.4
DSN11-12119	15.6	14.8	14.6	14.5	15.5	18.2	14.9
E13901	19.1	17.6	17.1	17.3	19.0	22.5	17.6
E13902	18.6	16.5	15.8	16.4	19.8	23.6	18.7
E13903	17.5	15.4	15.5	15.1	18.2	21.9	16.9
E14077	17.1	16.6	14.2	16.8	16.6	22.1	15.9
E14141	17.3	15.6	16.1	15.5	17.4	20.5	16.4
E14143	17.7	16.2	17.1	16.0	16.6	22.0	16.1
E14148	16.8	14.7	14.8	15.7	14.8	20.9	15.7
E14208	16.1	14.4	14.5	15.1	14.1	18.9	16.7
E14273	20.1	18.2	18.2	18.9	20.4	24.7	18.5
E14309	17.4	15.4	14.5	15.6	15.7	21.0	16.6
E14314	18.3	16.1	17.1	16.0	19.2	22.1	17.5
E14703	20.6	19.3	18.3	19.3	19.7	25.2	19.2
HM13-W154	18.8	17.4	17.0	17.3	17.8	23.1	17.6
HM13-W156	18.8	17.9	17.4	16.3	17.5	23.2	15.9
LD13-4902a	17.2	16.0	15.4	15.9	15.2	20.4	16.8
LD13-6692	17.4	15.8	15.7	15.5	17.5	21.4	15.9
M11-123087	15.4	13.9	14.3	13.1	15.0	18.4	14.7
M11-124010	16.8	14.3	14.6	15.4	17.5	20.9	15.2

PRELIMINARY TEST IIA, 2016

SEED SIZE (g/100)

Strain	Waseca MN	Cotes- field NE	Mead NE	Worms NE	Hoyt- ville OH	Wooster OH	Chatham ONT
IA2102 (II)	18.3	18.0	15.4		17.1	16.6	19.7
IA1022 (SCN)	16.2	18.5	16.2		16.8	15.7	19.7
LD02-4485 (SCN)	15.2	17.5	14.9		15.9	15.4	18.2
U11-920017	19.6	18.2	18.0		17.5	15.8	21.4
DSN11-12073	17.9	17.5	15.3		16.9	16.5	20.4
DSN11-12119	15.8	16.3	14.7		15.2	14.2	18.8
E13901	20.5	20.0	17.4		19.1	19.4	21.4
E13902	18.1	18.4	16.5		18.9	18.1	22.7
E13903	17.7	17.6	15.1		17.2	16.9	22.2
E14077	18.3	17.1	14.9		17.0	15.6	20.5
E14141	18.2	17.9	16.6		16.3	17.4	19.3
E14143	17.6	18.5	16.3		17.6	17.8	21.2
E14148	19.4	16.9	15.4		17.5	17.4	18.7
E14208	16.4	17.2	15.0		15.8	16.5	18.9
E14273	21.1	20.9	20.5		18.8	18.9	22.5
E14309	18.3	18.7	17.8		17.4	17.6	20.3
E14314	18.1	18.1	17.7		18.8	17.2	22.3
E14703	21.2	21.5	19.6		19.3	20.8	23.9
HM13-W154	19.2	18.9	18.4		17.7	18.9	22.6
HM13-W156	19.2	19.5	19.5		17.5	18.9	22.9
LD13-4902a	17.7	18.4	16.0		17.2	16.6	21.1
LD13-6692	16.5	18.0	18.3		16.9	17.0	20.8
M11-123087	16.8	17.4	15.1		15.2	13.3	17.4
M11-124010	16.4	16.9	16.5		17.2	17.0	20.3

PRELIMINARY TEST IIA, 2016

SEED QUALITY (score)

Strain	Mean 11 Tests	Boone County IA	Boone IA	Urbana IL	West Lafayette IN	East Lansing MI	Lamber- ton MN
IA2102 (II)	1.6	2.0	2.0	2.0	1.0		1.0
IA1022 (SCN)	1.7	2.0	2.0	2.0	1.0		2.5
LD02-4485 (SCN)	1.9	2.0	2.0	2.0	2.0		1.0
U11-920017	1.7	2.0	2.0	2.0	2.0		1.5
DSN11-12073	1.5	2.0	2.0	2.0	1.0		1.0
DSN11-12119	1.5	2.0	2.0	2.0	1.0		1.0
E13901	1.8	2.0	2.0	2.0	1.5		1.0
E13902	1.7	2.5	3.0	2.0	1.5		1.0
E13903	1.7	2.5	3.0	2.0	2.0		1.5
E14077	1.7	2.5	3.0	2.0	1.5		1.0
E14141	1.4	2.0	3.0	1.0	1.5		1.0
E14143	1.5	2.0	3.0	2.0	1.0		1.0
E14148	1.5	2.5	2.0	2.0	1.0		1.0
E14208	2.0	2.5	4.0	3.0	2.0		1.0
E14273	1.8	2.0	2.0	2.0	2.5		1.5
E14309	1.7	2.0	2.0	2.0	1.5		1.5
E14314	1.8	2.0	3.0	2.0	1.5		1.0
E14703	1.5	2.5	2.0	2.0	1.5		1.0
HM13-W154	1.3	2.0	2.0	1.0	1.0		1.0
HM13-W156	1.3	1.5	2.0	2.0	1.0		1.0
LD13-4902a	1.6	2.0	3.0	2.0	1.0		1.0
LD13-6692	1.5	2.0	2.0	1.0	1.0		1.0
M11-123087	1.7	2.0	3.0	2.0	1.0		1.0
M11-124010	1.5	2.0	3.0	2.0	1.5		1.0

PRELIMINARY TEST IIA, 2016

SEED QUALITY (score)

Strain	Waseca MN	Cotes- field NE	Mead NE	Worms NE	Hoyt- ville OH	Wooster OH	Chatham ONT
IA2102 (II)	1.0	1.0	2.0		2.0	3.0	1.0
IA1022 (SCN)	1.0	1.0	2.0		1.0	3.0	1.0
LD02-4485 (SCN)	1.0	2.0	2.0		3.0	3.0	1.0
U11-920017	1.0	1.0	2.0		1.0	3.0	1.0
DSN11-12073	1.0	1.0	2.0		2.0	2.0	1.0
DSN11-12119	1.0	1.0	1.0		2.0	3.0	1.0
E13901	1.5	2.0	2.0		2.0	3.0	1.0
E13902	1.0	1.0	1.0		2.0	3.0	1.0
E13903	1.0	1.0	1.0		2.0	2.0	1.0
E14077	2.0	1.0	1.0		1.0	3.0	1.0
E14141	1.5	1.0	1.0		1.0	1.0	1.0
E14143	1.0	1.0	1.0		2.0	2.0	1.0
E14148	1.0	1.0	2.0		2.0	1.0	1.0
E14208	2.0	1.0	2.0		2.0	1.0	1.0
E14273	1.5	2.0	1.0		2.0	2.0	1.0
E14309	1.5	1.0	1.0		2.0	3.0	1.0
E14314	1.0	2.0	1.0		2.0	3.0	1.0
E14703	1.0	1.0	1.0		2.0	2.0	1.0
HM13-W154	1.0	1.0	1.0		1.0	2.0	1.0
HM13-W156	1.5	1.0	1.0		1.0	1.0	1.0
LD13-4902a	1.0	1.0	1.0		2.0	3.0	1.0
LD13-6692	1.0	1.0	2.0		1.0	3.0	1.0
M11-123087	1.0	1.0	2.0		1.0	4.0	1.0
M11-124010	1.5	1.0	1.0		1.0	2.0	1.0

PRELIMINARY TEST IIA, 2016

PROTEIN (%)

Strain	Mean 7 Tests	Urbana IL	West Lafayette IN	Lamber- ton MN	Waseca MN	Mead NE	Hoytville OH	Chatham ONT
IA2102 (II)	35.2	33.1	35.3	34.1	34.6	33.9	33.1	41.9
IA1022 (SCN)	34.1	32.8	33.8	33.8	32.8	33.8	32.6	38.9
LD02-4485 (SCN)	33.5	33.1	33.2	33.6	31.8	32.8	32.2	38.1
U11-920017	34.0	32.6	32.8	34.5	32.9	33.7	33.3	38.3
DSN11-12073	35.7	35.4	34.3	34.8	34.3	34.6	34.9	41.4
DSN11-12119	34.3	34.5	33.5	33.8	32.5	33.5	33.2	38.9
E13901	36.2	35.2	35.7	34.4	35.1	36.1	35.8	41.3
E13902	35.9	34.8	35.1	34.2	34.7	35.1	35.0	42.1
E13903	35.7	34.1	35.4	34.9	35.3	34.4	34.8	41.4
E14077	35.1	34.6	34.4	34.5	33.6	34.7	33.6	40.3
E14141	36.3	35.3	35.9	35.3	35.4	35.3	35.6	41.6
E14143	36.2	35.6	35.1	35.1	34.6	35.0	35.7	42.4
E14148	34.9	34.1	33.4	34.7	32.8	34.7	33.8	41.1
E14208	35.2	35.0	34.8	33.9	34.6	34.3	33.6	40.3
E14273	36.6	34.9	35.7	36.0	35.4	35.4	35.8	43.3
E14309	34.7	33.7	34.1	33.8	34.1	33.8	34.0	39.4
E14314	35.0	33.7	34.1	34.6	33.4	34.2	34.6	40.6
E14703	35.5	34.7	35.3	34.4	34.9	34.5	34.4	40.1
HM13-W154	35.2	34.1	35.0	34.5	33.8	34.7	33.2	40.8
HM13-W156	35.8	35.3	36.1	34.9	34.6	35.0	33.5	41.0
LD13-4902a	35.5	36.7	34.5	34.2	33.0	33.6	35.2	41.4
LD13-6692	34.9	33.6	33.2	34.2	37.2	33.8	33.9	38.8
M11-123087	37.4	36.5	36.8	36.9	32.2	36.8	37.9	44.7
M11-124010	35.5	34.1	35.5	34.3	34.2	34.9	34.1	41.7

PRELIMINARY TEST IIA, 2016

OIL (%)

Strain	Mean 7 Tests	Urbana IL	West Lafayette IN	Lamber- ton MN	Waseca MN	Mead NE	Hoytville OH	Chatham ONT
IA2102 (II)	19.5	20.3	19.6	18.6	18.4	18.6	20.6	20.5
IA1022 (SCN)	21.0	21.5	21.0	19.5	19.7	19.9	21.7	23.7
LD02-4485 (SCN)	19.8	20.1	20.5	18.2	18.8	19.4	20.9	20.8
U11-920017	20.1	21.1	21.0	18.2	18.9	19.3	20.6	21.7
DSN11-12073	19.5	19.7	20.3	18.2	18.7	17.9	19.9	21.9
DSN11-12119	19.7	19.8	20.4	18.2	18.6	18.9	20.2	22.0
E13901	19.7	20.1	20.1	18.4	18.8	18.6	19.7	22.2
E13902	19.6	19.9	20.4	18.5	18.7	18.2	19.7	22.0
E13903	19.5	20.1	19.7	18.1	18.4	18.3	20.1	21.8
E14077	19.6	20.4	20.3	18.3	18.9	18.1	20.4	20.8
E14141	19.4	19.7	19.7	18.2	18.4	18.6	19.7	21.8
E14143	20.0	20.4	20.5	18.8	19.1	19.4	20.0	22.0
E14148	19.9	20.4	20.8	18.4	19.5	18.9	20.8	20.3
E14208	19.4	19.5	20.0	18.4	18.4	18.7	20.1	20.8
E14273	19.2	19.6	19.6	17.8	18.1	18.6	19.6	21.1
E14309	19.3	19.7	19.8	17.7	18.2	18.5	19.7	21.3
E14314	20.3	20.8	20.6	18.6	19.4	19.7	20.4	22.4
E14703	20.0	20.3	20.5	18.9	19.2	19.4	20.4	21.4
HM13-W154	20.0	21.0	20.6	18.6	19.1	19.1	21.0	20.8
HM13-W156	19.8	20.2	19.9	18.4	18.5	18.8	20.5	22.3
LD13-4902a	19.8	19.1	20.4	18.6	19.2	19.1	19.8	22.6
LD13-6692	19.5	19.9	20.2	18.5	18.1	18.9	20.1	21.0
M11-123087	19.3	19.6	19.9	18.3	19.0	18.6	19.4	20.7
M11-124010	20.4	21.1	20.9	18.9	19.5	19.6	21.1	21.9

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PRELIMINARY TEST IIB, 2016

Ent.	Strain	Parentage	Seed Source	Gen. Comp.	Unique Traits
1	IA2102 (II)	A04-545045 x AgriPro 98180-A01-0613	Fehr	F4	
2	IA1022 (SCN)	Dairyland 98822 x A00-711024	Fehr	F5	SCN
3	LD02-4485 (SCN)	M90-184111 x IA3010	Diers	F5	SCN
4	U11-920017	HS5-3417 x LD02- 4485	Graef	F6	Rps Resis.
5	AR15-259014	IAR2001 BSR x ND07-4635	Cianzio	F3	BSR
6	AR15-259021	JTN-5203 x IAR2001 BSR	Cianzio	F3	BSR
7	AR15-259036	MN1606SP x IAR1901 BSR	Cianzio	F3	SDS
8	ORC 5814	S23-T5 x OAC Marvel	Eskandari	F5	
9	ORC 8715	SC 4009 x SC 2407	Eskandari	F5	
10	U13-223411	U09-233044 x U03-260216	Graef	F5	UP2YC4S3
11	U13-227425	U09-209069 x U09-311114	Graef	F5	Rps1K, Rps
12	U13-228421	U09-209069 x U09-311114	Graef	F5	Rps1K, Rps
13	U13-231427	U09-311114 x U09-323109	Graef	F5	Rps1K, Rps, UP2YC4S3
14	U13-235297	U09-311114 x LD04-13265	Graef	F5	Rps1K, Rps, SCN, YLD
15	U14-903100	U09-105007 x CL05-32415	Graef	F5	Rps, SCN, Rps3a
16	U14-909100	U09-105007 x LD02-4485	Graef	F5	Rps, SCN
17	U14-910097	U09-105007 x LD07-3419	Graef	F5	Rps, SCN
18	U14-912101	U09-105007 x LD07-3419	Graef	F5	Rps, SCN
19	U14-914093	U09-105007 x LD08-2355	Graef	F5	Rps, SCN
20	U14-915126	U09-215057 x U09-126009	Graef	F5	Rps, Dt, SCN?
21	U14-919098	U09-105007 x U09-215057	Graef	F5	Rps, Dt
22	U14-923097	U09-105007 x U09-317120	Graef	F5	Rps
23	U14-925152	U11-935093 x LD07-3419	Graef	F5	IDC, SCN
24	U14-927136	U11-935093 x U09-105007	Graef	F5	IDC, Rps

PRELIMINARY TEST IIB, 2016

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	IDC Score		Shattering Score
		Lamber-ton	Waseca	Man-hattan
IA2102 (II)	WGTYYYI	2.5	2.5	3.0
IA1022 (SCN)	PGTSYYI	3.3	3.3	5.0
LD02-4485 (SCN)	WGTDYLBfI	3.5	3.5	3.0
U11-920017	WGBIYBfI	3.3	3.3	2.0
AR15-259014	WGBSYBrI	4.0	4.0	3.0
AR15-259021	WTBTYDbrI	3.5	3.5	1.0
AR15-259036	PTBSYBrI	4.5	4.5	5.0
ORC 5814	PGTSYYI	2.5	2.5	2.0
ORC 8715	WGTDYYI	4.3	4.3	4.0
U13-223411	PGBSYDibI	4.3	4.3	5.0
U13-227425	PT+GB+TSYBrI	3.5	3.5	3.0
U13-228421	WGTDYBfI	4.5	4.5	4.0
U13-231427	PGBIYDibI	3.3	3.3	3.0
U13-235297	PGBIYDibI	4.3	4.3	1.0
U14-903100	PGTIYBfI	4.0	4.0	3.0
U14-909100	PGTSYBfI	1.5	1.5	2.0
U14-910097	PGTSYBfI	3.8	3.8	2.0
U14-912101	PGTDYBfI	3.8	3.8	2.0
U14-914093	PGTSYDbfI	4.0	4.0	3.0
U14-915126	PGTIYDibI	4.0	4.0	3.0
U14-919098	PGTSYBfI	4.3	4.3	5.0
U14-923097	PGBSYDibI	3.8	3.8	5.0
U14-925152	PGTSYDibI	3.8	3.8	4.0
U14-927136	PGBIYDbfI	3.8	3.8	5.0

PRELIMINARY TEST IIB, 2016

REGIONAL SUMMARY

No. of Tests Strain	Yield 12 bu/a	Rank 12 No.	Maturity 12 Date	Lodging 12 Score	Plant Height 11 In.	Seed Size 12 g/100	Seed Quality 11 Score	Composition	
								Protein 7 %	Oil 7 %
IA2102 (II)	65.4	18	9/25	2.4	38	17.5	1.6	35.6	19.2
IA1022 (SCN)	58.9	22	-3.7	1.8	34	16.6	2.0	34.2	20.5
LD02-4485 (SCN)	65.7	17	-0.0	2.0	36	15.8	1.8	33.6	19.8
U11-920017	67.1	15	1.3	1.5	35	18.0	1.7	33.9	20.2
AR15-259014	62.3	20	0.5	1.6	38	19.0	1.7	36.7	19.3
AR15-259021	62.6	19	-0.3	1.2	34	15.3	1.8	34.8	19.3
AR15-259036	59.6	21	-3.1	2.0	39	16.8	1.8	36.7	19.5
ORC 5814	55.0	24	-4.1	1.5	36	18.5	1.6	37.0	18.9
ORC 8715	57.9	23	-0.9	2.4	36	19.2	1.7	36.6	18.9
U13-223411	67.9	10	3.0	1.8	42	15.4	1.5	35.5	19.5
U13-227425	68.9	4	2.8	1.6	39	17.0	1.5	34.0	20.4
U13-228421	68.6	7	3.4	1.6	41	17.2	1.5	34.7	19.8
U13-231427	66.4	16	5.3	1.7	41	16.1	1.9	34.9	19.9
U13-235297	67.7	12	3.5	2.1	40	17.2	1.5	34.9	20.3
U14-903100	68.4	8	3.2	1.3	38	17.9	1.5	34.4	19.7
U14-909100	67.3	14	2.8	1.8	41	16.8	1.4	35.0	19.8
U14-910097	71.8	1	4.1	2.2	35	16.2	1.5	34.2	20.3
U14-912101	67.7	12	5.2	1.6	37	17.9	1.5	34.1	19.8
U14-914093	68.1	9	4.0	1.9	41	16.9	1.4	34.5	19.9
U14-915126	70.1	3	0.3	1.3	38	16.2	1.7	33.8	20.2
U14-919098	68.9	4	1.3	1.3	38	16.9	1.5	35.1	20.2
U14-923097	68.9	4	3.3	1.3	36	14.8	1.4	34.1	19.8
U14-925152	71.0	2	3.3	1.5	36	16.1	1.5	34.6	20.5
U14-927136	67.9	10	1.0	1.3	38	15.4	1.4	35.0	19.8
Mean	65.0			1.7	36.8	15.0	1.4		
C.V. (%)	11.0			33.4	7.6	5.8	29.0		
L.S.D. (5%)	3.9			0.3	1.6	0.6	0.3		

125.2 Days After Planting

PRELIMINARY TEST IIB, 2016

YIELD (bu/a)

Strain	Mean 12 Tests	Boone County IA	Boone* IA	Urbana IL	West Lafayette IN	East Lansing MI	Lamber- ton MN
IA2102 (II)	65.4	67.2	77.1	68.0	51.7	75.4	56.8
IA1022 (SCN)	58.9	55.2	59.9	58.9	47.1	70.0	43.6
LD02-4485 (SCN)	65.7	61.5	63.6	70.0	53.1	80.8	60.5
U11-920017	67.1	63.2	54.4	65.2	55.2	85.9	50.8
AR15-259014	62.3	52.2	36.9	60.0	52.2	79.8	46.0
AR15-259021	62.6	58.7	54.9	50.3	57.0	79.4	53.1
AR15-259036	59.6	59.4	56.8	49.8	45.3	67.4	52.6
ORC 5814	55.0	45.4	47.0	48.0	50.9	66.5	56.6
ORC 8715	57.9	48.0	51.5	57.0	53.4	60.9	49.9
U13-223411	67.9	69.7	64.2	59.5	64.0	78.8	58.3
U13-227425	68.9	69.9	42.1	64.9	53.4	84.5	53.8
U13-228421	68.6	64.9	54.1	65.3	60.7	91.0	55.2
U13-231427	66.4	68.8	53.0	75.1	59.9	75.5	44.0
U13-235297	67.7	72.4	58.2	67.9	53.8	82.0	53.3
U14-903100	68.4	61.7	44.4	70.0	61.7	84.7	56.4
U14-909100	67.3	68.9	69.3	75.5	58.7	80.0	54.5
U14-910097	71.8	71.7	75.4	74.1	64.1	84.5	68.1
U14-912101	67.7	62.2	60.0	65.6	57.6	81.5	54.2
U14-914093	68.1	69.9	65.2	71.7	55.3	86.9	55.2
U14-915126	70.1	62.5	57.7	73.8	58.2	93.3	48.1
U14-919098	68.9	69.3	39.7	60.0	56.7	80.2	60.0
U14-923097	68.9	57.9	43.6	73.0	47.8	87.9	46.9
U14-925152	71.0	71.7	59.4	75.5	57.2	87.1	61.5
U14-927136	67.9	68.9	60.8	69.5	52.0	80.1	61.1
Location Mean		63.4	56.2	65.4	55.3	80.2	54.2
C.V. (%)		5.6	19.0	10.9	8.6	4.5	10.0
L.S.D. (5%)		7.3	22.1	14.8	9.8	9.1	11.3
Row Sp. (In.)		30	30	30	30	30	30
Rows/Plot		4	4	4	4	41	4
Reps		2	2	2	2	2	2

*Data not included in the mean.

PRELIMINARY TEST IIB, 2016

YIELD (bu/a)

Strain	Waseca MN	Cotes- field NE	Mead NE	Worms NE	Hoyt- ville OH	Wooster OH	Chatham ONT
IA2102 (II)	66.2	105.6	72.3	79.8	57.8	40.4	43.1
IA1022 (SCN)	69.0	95.2	75.9	78.5	38.3	34.3	40.9
LD02-4485 (SCN)	63.3	89.8	72.3	83.8	68.3	43.6	41.2
U11-920017	78.7	95.1	83.0	85.0	49.3	47.7	45.7
AR15-259014	60.7	94.3	74.0	81.8	59.3	46.6	41.0
AR15-259021	59.2	95.3	73.3	85.9	52.4	37.4	48.7
AR15-259036	60.8	92.3	73.8	80.9	53.6	42.5	36.4
ORC 5814	53.0	81.4	58.9	67.6	47.0	39.0	46.2
ORC 8715	55.0	86.9	67.0	79.7	60.9	31.5	44.4
U13-223411	70.1	95.6	79.9	81.4	68.8	41.4	47.3
U13-227425	60.0	100.9	86.1	92.9	62.8	48.8	48.4
U13-228421	62.0	106.4	73.7	85.8	59.2	47.4	51.3
U13-231427	55.2	98.7	76.3	84.9	54.9	54.2	49.6
U13-235297	59.4	94.6	79.1	89.0	61.0	50.9	49.1
U14-903100	64.2	91.9	75.9	90.9	64.1	49.1	50.6
U14-909100	59.9	92.9	63.2	81.8	65.6	59.1	47.3
U14-910097	70.1	94.1	71.8	92.7	71.7	51.8	46.8
U14-912101	55.5	101.8	73.6	93.2	69.9	53.4	44.4
U14-914093	57.8	95.0	71.9	87.9	71.2	45.5	49.1
U14-915126	71.7	104.0	84.9	93.9	63.9	43.4	43.5
U14-919098	70.1	92.5	78.2	92.5	69.9	53.0	44.3
U14-923097	77.4	98.9	82.6	90.3	62.0	50.9	51.0
U14-925152	64.9	101.4	81.4	84.3	69.9	45.2	51.7
U14-927136	70.9	97.3	78.7	86.5	60.4	48.8	40.6
Location Mean	64.0	95.9	75.3	85.5	60.9	46.1	45.9
C.V. (%)	8.8	4.9	9.0	7.9	9.8	11.4	7.8
L.S.D. (5%)	11.1	11.4	16.6	16.6	12.4	10.8	6.1
Row Sp. (In.)	30	30	30	30	7.5	7.5	17
Rows/Plot	4	4	4	4	8	8	5
Reps	2	2	2	2	2	2	2

PRELIMINARY TEST IIB, 2016

YIELD RANK

Strain	Yield Rank	Boone County IA	Boone IA	Urbana IL	West Lafayette IN	East Lansing MI	Lamberton MN
IA2102 (II)	18	11	1	11	20	20	7
IA1022 (SCN)	22	21	9	20	23	21	24
LD02-4485 (SCN)	17	17	6	8	17	12	4
U11-920017	15	13	15	15	13	6	18
AR15-259014	20	22	24	17	18	16	22
AR15-259021	19	19	14	22	10	17	16
AR15-259036	21	18	13	23	24	22	17
ORC 5814	24	24	19	24	21	23	8
ORC 8715	23	23	18	21	15	24	19
U13-223411	10	6	5	19	2	18	6
U13-227425	4	5	22	16	15	8	14
U13-228421	7	12	16	14	4	2	11
U13-231427	16	10	17	3	5	19	23
U13-235297	12	1	11	12	14	10	15
U14-903100	8	16	20	8	3	7	9
U14-909100	14	8	3	1	6	15	12
U14-910097	1	2	2	4	1	8	1
U14-912101	12	15	8	13	8	11	13
U14-914093	9	4	4	7	12	5	10
U14-915126	3	14	12	5	7	1	20
U14-919098	4	7	23	17	11	13	5
U14-923097	4	20	21	6	22	3	21
U14-925152	2	3	10	1	9	4	2
U14-927136	10	9	7	10	19	14	3

PRELIMINARY TEST IIB, 2016

YIELD RANK

Strain	Waseca MN	Cotes- field NE	Mead NE	Worms NE	Hoyt- ville OH	Wooster OH	Chatham ONT
IA2102 (II)	9	2	19	21	16	18	19
IA1022 (SCN)	8	12	12	23	22	21	22
LD02-4485 (SCN)	12	22	19	16	5	14	20
U11-920017	1	13	3	13	20	9	14
AR15-259014	15	16	13	18	14	11	21
AR15-259021	19	11	17	11	19	20	8
AR15-259036	14	20	14	20	18	16	24
ORC 5814	24	24	24	24	21	19	13
ORC 8715	23	23	22	22	12	22	15
U13-223411	6	10	6	19	4	17	10
U13-227425	16	6	1	3	9	8	9
U13-228421	13	1	15	12	15	10	2
U13-231427	22	8	10	14	17	2	5
U13-235297	18	15	7	8	11	6	6
U14-903100	11	21	12	6	7	7	4
U14-909100	17	18	23	18	6	1	11
U14-910097	7	17	21	4	1	5	12
U14-912101	21	4	16	2	3	3	16
U14-914093	20	14	20	9	2	12	7
U14-915126	3	3	2	1	8	15	18
U14-919098	5	19	9	5	3	4	17
U14-923097	2	7	4	7	10	6	3
U14-925152	10	5	5	15	3	13	1
U14-927136	4	9	8	10	13	8	23

PRELIMINARY TEST IIB, 2016

MATURITY (date)

Strain	Mean 12 Tests	Boone County IA	Boone IA	Urbana IL	West Lafayette IN	East Lansing MI	Lamber- ton MN
IA2102 (II)	9/25	9/25	9/27	9/14	9/13	10/6	10/7
IA1022 (SCN)	-4	-6	8	-6	-7	3	-8
LD02-4485 (SCN)	-0	-1	-2	3	2	1	-0
U11-920017	1	3	-7	5	3	1	4
AR15-259014	1	3	-10	3	0	-1	3
AR15-259021	-0	0	2	0	2	1	2
AR15-259036	-3	-5	6	-3	0	5	-7
ORC 5814	-4	-10	12	-6	0	7	-13
ORC 8715	-1	-6	8	-5	-3	1	-0
U13-223411	3	6	-6	8	7	-1	6
U13-227425	3	4	-4	6	5	-2	5
U13-228421	3	7	-11	8	8	-1	4
U13-231427	5	5	-10	11	11	-2	10
U13-235297	4	5	-2	6	6	-3	7
U14-903100	3	5	-4	8	7	-2	7
U14-909100	3	4	-1	9	6	0	5
U14-910097	4	5	-3	9	8	-4	9
U14-912101	5	8	-10	11	9	-5	11
U14-914093	4	7	-7	8	8	-2	7
U14-915126	0	0	-2	4	-1	-1	2
U14-919098	1	2	-1	4	0	1	3
U14-923097	3	7	-3	7	7	-2	5
U14-925152	3	7	0	7	9	-1	2
U14-927136	1	2	-1	5	3	1	1
Date Planted	5/23	5/15	5/13	5/23	5/22	5/17	5/23
Days to Mature	125	133	137	114	114	142	137

PRELIMINARY TEST IIB, 2016

MATURITY (date)

Strain	Waseca MN	Cotes- field NE	Mead NE	Worms NE	Hoyt- ville OH	Wooster OH	Chatham ONT
IA2102 (II)	10/4		9/24	9/24	9/26	9/11	10/5
IA1022 (SCN)	-5		-1	-4	0	-5	-14
LD02-4485 (SCN)	1		-3	-2	2	3	-5
U11-920017	2		3	3	2	3	-7
AR15-259014	-3		1	3	7	5	-5
AR15-259021	-2		1	3	0	0	-13
AR15-259036	-5		-1	-6	-2	-3	-17
ORC 5814	-10		0	-7	-2	-4	-16
ORC 8715	-6		-2	-2	0	-4	9
U13-223411	6		8	2	4	5	-7
U13-227425	4		4	2	7	7	-3
U13-228421	6		5	2	11	5	-3
U13-231427	7		9	3	8	9	3
U13-235297	2		6	0	9	8	0
U14-903100	5		6	2	8	7	-10
U14-909100	3		3	1	2	7	-4
U14-910097	6		5	2	12	7	-7
U14-912101	7		9	8	13	8	-6
U14-914093	3		7	4	8	7	0
U14-915126	0		3	-2	3	5	-8
U14-919098	2		5	1	3	4	-7
U14-923097	6		6	4	8	6	-9
U14-925152	2		5	0	10	6	-5
U14-927136	-1		3	0	4	5	-9
Date Planted	6/2		6/3	6/1	5/28	5/20	5/19
Days to Mature	124		113	115	121	114	139

PRELIMINARY TEST IIB, 2016

LODGING (score)

Strain	Mean 12 Tests	Boone County IA	Boone IA	Urbana IL	West Lafayette IN	East Lansing MI	Lamber- ton MN
IA2102 (II)	2.4	2.5	2.5	2.5	4.0	3.5	1.5
IA1022 (SCN)	1.8	1.0	3.0	1.8	1.3	3.0	1.0
LD02-4485 (SCN)	2.0	1.0	3.0	2.3	2.8	2.5	2.0
U11-920017	1.5	1.0	2.0	2.0	2.0	2.0	1.0
AR15-259014	1.6	1.5	2.0	2.0	1.0	2.5	1.5
AR15-259021	1.2	1.0	2.0	1.0	1.0	1.0	1.0
AR15-259036	2.0	2.5	2.5	1.8	1.3	3.0	2.0
ORC 5814	1.5	1.0	2.0	1.3	1.5	2.0	2.0
ORC 8715	2.4	2.5	2.8	2.0	4.5	3.5	1.5
U13-223411	1.8	2.0	2.5	2.0	1.5	3.0	2.0
U13-227425	1.6	1.0	1.8	1.8	2.0	2.0	2.0
U13-228421	1.6	1.0	2.0	2.3	2.0	2.5	1.0
U13-231427	1.7	2.0	2.0	2.0	1.5	2.5	2.0
U13-235297	2.1	1.5	2.3	3.0	2.3	3.5	2.0
U14-903100	1.3	1.0	2.0	2.0	1.0	2.0	1.0
U14-909100	1.8	1.5	2.3	3.0	1.5	3.0	2.0
U14-910097	2.2	2.5	2.5	3.0	3.3	4.0	2.0
U14-912101	1.6	1.5	1.8	2.8	1.5	3.0	1.5
U14-914093	1.9	2.5	2.3	2.3	1.8	3.0	1.0
U14-915126	1.3	1.0	2.0	1.5	1.3	2.0	1.0
U14-919098	1.3	1.0	2.0	1.5	1.0	1.5	1.5
U14-923097	1.3	1.0	2.0	1.5	1.0	2.0	1.0
U14-925152	1.5	1.5	2.0	2.5	1.0	2.5	1.0
U14-927136	1.3	1.0	2.3	1.8	1.0	1.5	1.0

PRELIMINARY TEST IIB, 2016

LODGING (score)

Strain	Waseca MN	Cotes- field NE	Mead NE	Worms NE	Hoyt- ville OH	Wooster OH	Chatham ONT
IA2102 (II)	3.5		1.0	1.5	1.0	1.0	4.0
IA1022 (SCN)	3.0		1.0	1.5	1.0	1.0	3.5
LD02-4485 (SCN)	3.0		1.0	1.0	1.0	1.0	4.0
U11-920017	2.5		1.0	1.5	1.0	1.0	1.5
AR15-259014	3.0		1.0	1.5	1.0	1.0	1.5
AR15-259021	2.0		1.0	1.0	1.0	1.0	1.0
AR15-259036	3.0		1.0	1.0	1.0	1.0	3.5
ORC 5814	2.5		1.0	1.5	1.0	1.0	1.5
ORC 8715	3.0		2.0	1.0	1.0	1.0	3.5
U13-223411	3.0		1.0	1.5	1.0	1.0	1.0
U13-227425	3.0		1.0	1.5	1.0	1.0	1.0
U13-228421	2.5		1.0	1.5	1.0	1.0	2.0
U13-231427	3.0		1.0	1.0	1.0	1.0	1.5
U13-235297	3.0		2.0	1.5	1.0	1.0	2.5
U14-903100	2.0		1.0	1.0	1.0	1.0	1.0
U14-909100	2.5		1.0	1.5	1.0	1.0	1.0
U14-910097	3.0		1.0	1.0	1.0	1.0	2.5
U14-912101	2.0		1.0	1.0	1.0	1.0	1.0
U14-914093	3.0		1.0	1.5	1.0	1.0	2.5
U14-915126	2.0		1.0	1.0	1.0	1.0	1.0
U14-919098	2.0		1.0	1.0	1.0	1.0	1.0
U14-923097	2.5		1.0	1.0	1.0	1.0	1.0
U14-925152	2.5		1.0	1.5	1.0	1.0	1.0
U14-927136	2.0		1.0	1.0	1.0	1.0	1.0

PRELIMINARY TEST IIB, 2016

PLANT HEIGHT (inches)

Strain	Mean 11 Tests	Boone County IA	Boone IA	Urbana IL	West Lafayette IN	East Lansing MI	Lamber- ton MN
IA2102 (II)	38	38	43	37	37	37	36
IA1022 (SCN)	34	32	36	33	38	35	31
LD02-4485 (SCN)	36	36	43	37	39	34	32
U11-920017	35	34	36	35	38	35	29
AR15-259014	38	37	37	37	39	35	34
AR15-259021	34	31	35	29	37	38	32
AR15-259036	39	38	42	35	39	35	39
ORC 5814	36	34	37	32	41	36	35
ORC 8715	36	35	37	31	40	34	35
U13-223411	42	39	46	38	48	38	42
U13-227425	39	39	34	40	45	35	41
U13-228421	41	41	44	36	47	39	39
U13-231427	41	40	47	41	48	43	42
U13-235297	40	40	42	37	43	39	41
U14-903100	38	38	35	37	39	35	40
U14-909100	41	40	45	40	42	40	40
U14-910097	35	34	39	35	38	30	35
U14-912101	37	40	39	38	38	33	34
U14-914093	41	43	45	39	45	39	37
U14-915126	38	34	39	38	44	35	33
U14-919098	38	40	38	38	41	34	36
U14-923097	36	38	37	37	38	35	32
U14-925152	36	38	35	34	38	35	34
U14-927136	38	40	41	38	39	33	35

PRELIMINARY TEST IIB, 2016

PLANT HEIGHT (inches)

Strain	Waseca MN	Cotes- field NE	Mead NE	Worms NE	Hoyt- ville OH	Wooster OH	Chatham ONT
IA2102 (II)	40		42		29	26	54
IA1022 (SCN)	39		41		23	21	48
LD02-4485 (SCN)	42		43		26	24	47
U11-920017	41		42		25	23	50
AR15-259014	45		44		30	27	53
AR15-259021	37		42		25	23	47
AR15-259036	44		46		32	24	54
ORC 5814	39		43		26	25	49
ORC 8715	43		37		29	23	50
U13-223411	51		48		33	26	54
U13-227425	48		43		30	23	52
U13-228421	53		49		31	23	52
U13-231427	47		43		32	23	49
U13-235297	46		43		32	24	52
U14-903100	44		43		29	27	47
U14-909100	47		45		32	26	51
U14-910097	41		37		28	23	45
U14-912101	42		41		30	25	49
U14-914093	46		46		33	27	53
U14-915126	45		43		28	26	54
U14-919098	45		45		30	26	50
U14-923097	42		39		27	22	47
U14-925152	43		42		25	24	48
U14-927136	43		43		28	24	51

PRELIMINARY TEST IIB, 2016

SEED SIZE (g/100)

Strain	Mean 12 Tests	Boone County IA	Boone IA	Urbana IL	West Lafayette IN	East Lansing MI	Lamber- ton MN
IA2102 (II)	17.5	16.2	15.3	15.5	16.8	20.6	17.3
IA1022 (SCN)	16.6	14.7	14.2	15.1	15.6	20.0	15.7
LD02-4485 (SCN)	15.8	14.5	13.2	14.4	15.3	19.0	16.1
U11-920017	18.0	16.1	15.0	16.4	17.3	22.1	17.8
AR15-259014	19.0	17.6	16.6	16.6	18.2	22.5	18.4
AR15-259021	15.3	13.4	13.0	12.6	15.2	18.4	14.9
AR15-259036	16.8	14.7	14.9	14.8	16.1	20.2	17.6
ORC 5814	18.5	17.3	16.5	17.5	19.7	22.2	18.7
ORC 8715	19.2	16.9	16.1	17.7	19.2	23.5	16.9
U13-223411	15.4	14.5	14.5	13.9	14.5	18.0	15.9
U13-227425	17.0	15.2	15.1	14.4	15.8	19.2	16.4
U13-228421	17.2	15.3	15.1	14.9	16.5	20.2	16.1
U13-231427	16.1	14.4	13.9	14.1	14.7	18.7	15.7
U13-235297	17.2	16.0	15.2	15.7	16.1	20.8	16.7
U14-903100	17.9	15.9	15.9	16.9	18.0	20.7	18.5
U14-909100	16.8	15.7	14.8	16.2	16.3	19.0	16.6
U14-910097	16.2	14.2	14.1	14.5	15.8	19.8	17.5
U14-912101	17.9	15.9	15.6	15.7	16.9	20.6	19.2
U14-914093	16.9	16.4	14.7	15.8	14.6	20.2	17.6
U14-915126	16.2	15.1	14.3	14.5	14.5	19.4	15.9
U14-919098	16.9	15.9	14.6	15.6	15.3	19.8	16.8
U14-923097	14.8	13.5	12.1	13.3	12.4	17.5	15.9
U14-925152	16.1	14.3	13.9	15.1	15.4	19.2	14.7
U14-927136	15.4	13.9	14.0	13.8	13.7	18.2	15.2

PRELIMINARY TEST IIB, 2016

SEED SIZE (g/100)

Strain	Waseca MN	Cotes- field NE	Mead NE	Worms NE	Hoyt- ville OH	Wooster OH	Chatham ONT
IA2102 (II)	17.5	19.0	16.2		16.9	17.4	20.7
IA1022 (SCN)	17.5	17.2	15.9		16.7	17.1	20.0
LD02-4485 (SCN)	15.3	16.0	15.3		15.0	16.1	19.3
U11-920017	17.4	18.1	18.2		17.4	18.2	21.6
AR15-259014	19.9	19.2	17.8		18.8	19.1	23.3
AR15-259021	15.8	15.7	14.0		16.1	16.3	18.6
AR15-259036	16.7	18.8	16.2		15.5	16.4	20.3
ORC 5814	18.3	18.1	15.5		17.2	18.4	22.7
ORC 8715	19.7	19.8	18.9		19.6	18.6	23.9
U13-223411	15.5	15.9	14.7		14.7	14.4	18.2
U13-227425	18.3	18.5	17.7		16.2	16.6	20.4
U13-228421	17.4	19.2	17.6		17.0	17.3	20.0
U13-231427	16.9	17.3	16.1		15.3	16.7	19.2
U13-235297	17.6	18.5	16.0		16.0	17.9	20.3
U14-903100	18.4	17.1	17.6		16.6	18.7	20.5
U14-909100	17.1	18.4	15.2		16.0	17.2	19.3
U14-910097	16.3	15.6	14.6		15.5	17.3	19.7
U14-912101	18.1	18.3	17.0		17.5	18.9	21.0
U14-914093	17.5	17.2	15.6		15.7	17.7	19.5
U14-915126	17.2	16.8	16.5		15.0	16.7	19.1
U14-919098	17.9	17.0	17.4		16.2	17.1	19.6
U14-923097	16.0	14.8	15.4		13.8	14.7	18.5
U14-925152	16.3	16.8	16.3		15.3	17.5	18.5
U14-927136	16.0	15.2	15.8		14.0	16.0	18.5

PRELIMINARY TEST IIB, 2016

SEED QUALITY (score)

Strain	Mean 11 Tests	Boone County IA	Boone IA	Urbana IL	West Lafayette IN	East Lansing MI	Lamber- ton MN
IA2102 (II)	1.6	2.0	2.0	2.0	1.0		1.0
IA1022 (SCN)	2.0	2.0	2.0	2.0	1.5		2.5
LD02-4485 (SCN)	1.8	1.5	2.0	2.0	2.0		1.0
U11-920017	1.7	1.5	3.0	2.0	2.0		1.5
AR15-259014	1.7	2.0	4.0	2.0	1.5		1.0
AR15-259021	1.8	2.0	3.0	2.0	2.0		1.0
AR15-259036	1.8	2.0	4.0	2.0	1.5		1.0
ORC 5814	1.6	2.0	2.0	2.0	1.5		1.0
ORC 8715	1.7	1.5	2.0	2.0	2.5		1.5
U13-223411	1.5	1.5	2.0	2.0	1.0		1.0
U13-227425	1.5	2.0	3.0	2.0	1.5		1.0
U13-228421	1.5	2.0	3.0	2.0	1.0		1.0
U13-231427	1.9	2.0	4.0	2.0	1.0		1.0
U13-235297	1.5	2.0	3.0	2.0	1.0		1.0
U14-903100	1.5	1.5	2.0	2.0	1.0		1.5
U14-909100	1.4	1.5	2.0	2.0	1.5		1.5
U14-910097	1.5	2.0	2.0	2.0	1.5		1.0
U14-912101	1.5	2.0	2.0	2.0	1.5		1.0
U14-914093	1.4	2.0	2.0	2.0	1.0		1.0
U14-915126	1.7	1.5	3.0	2.0	1.5		1.0
U14-919098	1.5	2.0	2.0	2.0	1.5		1.0
U14-923097	1.4	2.0	2.0	2.0	1.0		1.0
U14-925152	1.5	2.0	3.0	2.0	1.0		1.0
U14-927136	1.4	2.0	2.0	2.0	1.0		1.0

PRELIMINARY TEST IIB, 2016

SEED QUALITY (score)

Strain	Waseca MN	Cotes- field NE	Mead NE	Worms NE	Hoyt- ville OH	Wooster OH	Chatham ONT
IA2102 (II)	1.5	2.0	2.0		2.0	1.0	1.0
IA1022 (SCN)	1.5	2.0	2.0		3.0	2.0	1.0
LD02-4485 (SCN)	2.0	2.0	2.0		2.0	2.0	1.0
U11-920017	1.5	1.0	2.0		2.0	1.0	1.0
AR15-259014	1.0	1.0	2.0		1.0	2.0	1.0
AR15-259021	1.5	1.0	2.0		2.0	2.0	1.0
AR15-259036	1.5	1.0	2.0		1.0	3.0	1.0
ORC 5814	1.0	1.0	2.0		2.0	2.0	1.0
ORC 8715	1.5	1.0	2.0		1.0	3.0	1.0
U13-223411	1.5	1.0	2.0		1.0	2.0	1.0
U13-227425	1.5	1.0	2.0		1.0	1.0	1.0
U13-228421	1.5	1.0	2.0		1.0	1.0	1.0
U13-231427	2.0	2.0	2.0		2.0	2.0	1.0
U13-235297	1.0	1.0	1.0		1.0	2.0	1.0
U14-903100	2.0	1.0	1.0		1.0	2.0	1.0
U14-909100	1.0	1.0	1.0		1.0	2.0	1.0
U14-910097	1.5	1.0	1.0		1.0	2.0	1.0
U14-912101	1.0	1.0	2.0		1.0	2.0	1.0
U14-914093	1.5	1.0	1.0		1.0	2.0	1.0
U14-915126	1.5	1.0	1.0		2.0	3.0	1.0
U14-919098	1.0	1.0	1.0		2.0	2.0	1.0
U14-923097	1.0	1.0	1.0		1.0	2.0	1.0
U14-925152	1.0	1.0	1.0		2.0	2.0	1.0
U14-927136	1.5	1.0	1.0		1.0	2.0	1.0

PRELIMINARY TEST IIB, 2016

PROTEIN (%)

Strain	Mean 7 Tests	Urbana IL	West Lafayette IN	Lamber- ton MN	Waseca MN	Mead NE	Hoytville OH	Chatham ONT
IA2102 (II)	35.6	35.1	34.9	35.6	34.0	33.9	34.2	41.4
IA1022 (SCN)	34.2	33.7	33.5	34.4	31.8	32.8	34.5	38.9
LD02-4485 (SCN)	33.6	32.9	33.0	33.6	33.1	33.0	32.1	37.7
U11-920017	33.9	34.0	32.8	33.9	32.8	32.7	33.0	38.2
AR15-259014	36.7	36.8	35.5	36.5	35.3	35.5	35.9	41.3
AR15-259021	34.8	33.8	33.9	35.3	33.6	33.2	34.1	40.0
AR15-259036	36.7	36.5	35.4	37.0	35.1	36.0	34.2	42.9
ORC 5814	37.0	36.3	35.9	36.2	36.4	35.8	36.0	42.3
ORC 8715	36.6	35.1	36.0	36.4	36.1	35.6	35.0	41.9
U13-223411	35.5	35.1	35.2	35.0	34.1	34.8	33.9	40.3
U13-227425	34.0	33.3	33.3	33.7	32.7	34.0	32.5	38.9
U13-228421	34.7	33.4	34.4	34.6	33.7	34.1	33.8	39.1
U13-231427	34.9	34.5	34.0	35.0	33.6	34.6	33.6	38.8
U13-235297	34.9	34.3	34.0	34.9	34.2	34.2	33.8	38.8
U14-903100	34.4	35.4	33.2	34.5	33.4	33.2	32.6	38.7
U14-909100	35.0	35.7	34.8	34.9	33.3	33.9	33.5	38.6
U14-910097	34.2	34.6	32.9	34.3	33.0	33.1	32.7	38.9
U14-912101	34.1	35.3	33.4	33.6	32.4	32.3	32.4	38.9
U14-914093	34.5	34.7	33.3	34.6	32.7	34.1	32.9	39.3
U14-915126	33.8	32.8	33.3	34.5	31.8	33.1	32.6	38.1
U14-919098	35.1	34.8	33.7	35.2	34.2	34.9	33.5	39.1
U14-923097	34.1	34.6	32.5	33.5	32.7	33.9	32.6	38.8
U14-925152	34.6	34.8	34.3	33.9	33.3	33.9	32.7	39.4
U14-927136	35.0	35.0	34.4	34.5	34.6	34.5	32.6	39.4

PRELIMINARY TEST IIB, 2016

OIL (%)

Strain	Mean 7 Tests	Urbana IL	West Lafayette IN	Lamber- ton MN	Waseca MN	Mead NE	Hoytville OH	Chatham ONT
IA2102 (II)	19.2	19.7	20.0	17.8	18.5	18.4	20.1	19.9
IA1022 (SCN)	20.5	21.3	21.6	18.9	20.1	20.1	20.8	21.0
LD02-4485 (SCN)	19.8	20.5	20.8	18.3	18.6	19.2	20.6	20.3
U11-920017	20.2	20.7	21.5	18.5	19.0	19.7	20.9	21.4
AR15-259014	19.3	19.4	20.2	17.9	18.6	18.7	19.4	20.8
AR15-259021	19.3	19.8	20.1	17.3	18.5	18.4	20.0	21.1
AR15-259036	19.5	19.8	20.3	17.8	19.2	18.8	20.5	20.1
ORC 5814	18.9	19.2	19.8	17.6	17.9	17.8	19.4	20.5
ORC 8715	18.9	19.1	19.4	17.3	18.0	18.3	19.6	20.6
U13-223411	19.5	20.2	20.1	18.0	18.6	18.3	20.2	20.9
U13-227425	20.4	21.1	21.4	18.5	19.3	19.6	21.2	21.6
U13-228421	19.8	20.8	20.6	18.3	19.0	19.4	20.3	20.1
U13-231427	19.9	20.0	20.6	18.4	19.1	19.3	20.6	21.1
U13-235297	20.3	21.2	21.3	18.6	19.2	19.7	20.7	21.6
U14-903100	19.7	19.7	20.6	17.9	18.9	19.2	20.2	21.1
U14-909100	19.8	19.8	20.4	18.4	18.9	19.4	20.4	21.5
U14-910097	20.3	20.6	21.5	18.8	19.5	19.9	20.9	21.1
U14-912101	19.8	19.8	20.8	18.4	18.9	19.8	20.5	20.4
U14-914093	19.9	20.1	20.8	18.3	19.5	18.7	20.5	21.6
U14-915126	20.2	21.1	20.7	17.9	19.7	19.6	20.8	21.5
U14-919098	20.2	20.3	21.1	18.5	19.2	19.1	20.6	22.3
U14-923097	19.8	19.8	20.5	18.3	19.1	18.9	20.5	21.9
U14-925152	20.5	20.5	21.2	18.5	19.6	19.6	21.3	22.6
U14-927136	19.8	20.0	20.4	18.0	18.4	18.7	20.8	22.6

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UNIFORM TEST III, 2016

Ent.	Strain	Parentage	Seed Source	Previous Testing	Gen. Comp.	Unique Traits
1	IA3023 (III)	Dairyland DSR-365 x Pioneer P9381	Fehr	15	F5	
2	IA3048 (SCN)	Dairyland 99540 x IA2068	Fehr	8	F4	SCN
3	LD07-3395bf (SCN)	LD07-3395 Reselection	Diers	1	F5	SCN
4	U11-920017	HS5-3417 x LD02- 4485	Graef	2	F6	Rps Resis.
5	AR14-248020	Syngenta 06NB199520 x IAR2101 SCN	Cianzio	PTIIA	F4	
6	DSN11-06152	IA3023 x CL0J173-6-8	Diers/Rainey	PTIIIA	F5	
7	HR10-3325	LG00-6182 x LG02-4198	Mian	1	F5	Genetic Diversity
8	LD11-10069	LD06-2009 x LG04-6000	Diers	1	F4	
9	LD11-2170	Syngenta 03JR313108 x LD05-3171	Diers	1	F5	SCN
10	LD12-3866	LG04-5372 x Dairyland 75213-72	Diers	PTIIIA	F5	
11	LG12-2177	U02-242055 x LG05-4550	Nelson	1	F6	
12	LG13-1006	LG05-4229 x LG04-5187	Nelson	PTIIIB	F6	Diversity
13	SA12-1455	CL06-121119 x S07-5117	Scaboo	PTIIIA	F5	
14	U11-346046	LG04-6000 x OAC05-17	Graef	UTII	F5	Rps Resis.
15	U11-377007	U02-242055 x LD04-13265	Graef	1	F5	Suscep. to Rps.
16	U11-396034	U03-300134 x LD04-11056	Graef	UTII	F5	Rps1k
17	U11-494100	LG04-6005 x LD00-2817P	Graef	1	F5	Rps Resis.
18	U11-614093	U02-242055 x LD04-13265	Graef	1	F5	Rps1k
19	U12-209068	U00-409006 x Dairyland 75517	Graef	PTIIIB	F5	SCN
20	U12-428210	Dairyland 75517 x K07-1544	Graef	PTIIIB	F5	SCN
21	U12-428214	Dairyland 75517 x K07-1544	Graef	PTIIIB	F5	SCN
22	U13-602187	U03-260216 x U10-425065	Graef	PTIIIB	F5	Rps, SCN
23	U13-614037	U09-233044 x U09-312115	Graef	PTIIIB	F5	Rps
24	U13-931068	U03-260216 x U10-425065	Graef	PTIIIB	F5	Rps, SCN

UNIFORM TEST III, 2016
DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	Shattering	Green Stem	SDS Data		
		Score Man-hattan	Score So Charleston	Shawneetown and Valmeyer, IL		
				Shaw SDS DX	Val SDS DX	Mean SDS Mean DX
IA3023 (III)	WGBIYDibI	3.0	1.6	2.8	0.0	1.4
IA3048 (SCN)	WGTSYYI	2.0	2.3	6.7	0.0	3.3
LD07-3395bf (SCN)	WGTSYBfI	1.0	3.2	0.6	0.0	0.3
U11-920017	WGBIYBfI	2.0	1.0	0.3	0.0	0.2
AR14-248020	PGTIYBfI	5.0	1.0	1.4	0.0	0.7
DSN11-06152	WGTSYDibI	1.0	1.4	4.4	0.0	2.2
HR10-3325	PGTDYDibI	3.0	1.0	3.3	1.7	2.5
LD11-10069	WGBDYDibI	2.0	1.8	2.5	0.0	1.3
LD11-2170	PGTDYDbfI	1.0	0.9	3.9	0.0	1.9
LD12-3866	P+WGTSYLbfI	4.0	2.4	2.8	0.0	1.4
LG12-2177	WTBSYBI	2.0	4.1	1.1	0.0	0.6
LG13-1006	WTBSYBrI	2.0	3.2	0.6	0.0	0.3
SA12-1455	WGTDYLBfI	1.0	3.8	0.0	0.0	0.0
U11-346046	P+WGTSYDibI	3.0	0.9	1.2	0.0	0.6
U11-377007	WGBSYDibI	1.0	2.4	2.8	0.6	1.7
U11-396034	PGBSYDibI	2.0	1.1	1.9	0.0	1.0
U11-494100	WGTSYDib+DbfI	1.0	2.3	3.9	0.0	1.9
U11-614093	PGTDYDibI	2.0	1.3	3.9	0.0	1.9
U12-209068	WTB+TSYBI	2.0	2.6	0.8	0.0	0.4
U12-428210	PTBSYBI	1.0	2.2	0.3	0.0	0.1
U12-428214	PTBSYBI	2.0	3.7	0.6	0.0	0.3
U13-602187	PGTSYDibI	3.0	1.8	6.4	0.0	3.2
U13-614037	PGTSYDibI	2.0	1.3	6.7	0.0	3.3
U13-931068	PTBSYBDbfI	1.0	2.4	1.7	0.0	0.8
			Mean	3.5	0.1	
			P>F	<.0001	0.4993	
			LSD	5.2	1.3	

UNIFORM TEST III, 2016

REGIONAL SUMMARY

No. of Tests Strain	Yield 17 bu/a	Rank 17 No.	Maturity 16 Date	Lodging 16 Score	Plant Height 15 In.	Seed Size 16 g/100	Seed Quality 16 Score	Composition	
								Protein 6 %	Oil 6 %
IA3023 (III)	66.3	16	9/24	2.0	39	15.9	1.7	33.5	19.9
IA3048 (SCN)	67.2	11	-0.6	2.4	39	15.3	1.8	35.1	19.1
LD07-3395bf (SCN)	68.8	4	2.1	2.2	37	16.0	1.9	32.4	20.6
U11-920017	62.7	23	-4.7	1.9	35	16.5	2.2	33.0	20.5
AR14-248020	63.1	22	-3.5	2.6	39	16.1	2.0	33.6	19.8
DSN11-06152	67.5	10	-0.1	1.6	36	15.6	1.7	33.2	19.7
HR10-3325	65.0	20	-0.9	2.3	40	15.0	1.8	33.9	19.4
LD11-10069	65.2	18	1.4	2.8	40	14.5	1.8	34.3	18.8
LD11-2170	72.3	2	-1.2	1.7	36	15.7	1.9	34.7	20.1
LD12-3866	68.0	8	1.6	2.2	41	15.1	1.7	35.3	19.6
LG12-2177	68.8	4	3.1	2.7	38	15.9	1.8	34.2	20.1
LG13-1006	67.8	9	-0.8	2.5	42	17.8	2.1	34.4	20.3
SA12-1455	73.6	1	5.4	1.6	37	17.6	1.9	36.0	19.3
U11-346046	64.4	21	-2.9	2.9	37	16.6	1.8	35.4	19.3
U11-377007	67.0	13	2.0	2.3	40	16.2	1.9	34.8	19.7
U11-396034	65.1	19	-1.9	1.6	39	14.3	1.9	33.5	19.7
U11-494100	66.4	14	1.3	2.2	41	14.8	1.6	34.1	19.1
U11-614093	65.4	17	-0.7	1.8	39	16.0	1.9	34.5	19.7
U12-209068	66.4	14	1.5	2.7	39	17.5	2.0	34.7	19.4
U12-428210	69.2	3	3.4	2.2	42	16.0	1.9	34.6	20.0
U12-428214	67.2	11	4.7	2.3	42	17.1	2.1	34.3	19.9
U13-602187	68.4	7	0.4	2.1	41	14.7	1.9	34.7	19.5
U13-614037	62.7	23	-1.7	1.6	41	13.8	2.0	33.1	20.2
U13-931068	68.8	4	0.7	2.3	41	16.9	1.9	33.9	19.5
Mean	66.7			2.2	38.8	15.1	1.9		
C.V. (%)	10.7			27.6	5.5	6.0	30.2		
L.S.D. (5%)	3.0			0.3	0.9	0.5	0.3		

126.2 Days After Planting

UNIFORM TEST III, 2016

2015-2016 2-Year Mean

No. of Tests Strain	Yield	Rank	Maturity	Lodging	Plant	Seed	Seed	Composition	
	33 bu/a	33 No.	32 Date	31 Score	Height 30 In.	Size 31 g/100	Quality 31 Score	Protein 12 %	Oil 12 %
IA3023 (III)	62.5	9	9/20	1.8	35	15.4	1.7	33.8	19.8
IA3048 (SCN)	63.0	7	-0.4	2.1	35	14.7	1.7	34.9	19.2
LD07-3395bf (SCN)	65.1	2	3.5	1.8	33	15.6	1.8	32.6	20.5
HR10-3325	62.7	8	-0.8	2.0	36	14.5	1.9	34.1	19.2
LD11-10069	63.3	6	1.5	2.3	37	14.2	1.7	34.6	18.8
LD11-2170	66.6	1	-1.0	1.5	33	15.3	1.9	34.8	20.1
LG12-2177	65.1	2	3.2	2.3	35	15.4	1.8	34.2	20.0
U11-377007	64.2	4	3.3	1.9	36	15.9	1.8	34.7	19.6
U11-494100	64.0	5	2.3	1.8	38	14.4	1.7	34.2	19.1
U11-614093	62.1	10	-0.9	1.6	34	15.7	1.9	34.6	19.9

123.6 Days After Planting

UNIFORM TEST III, 2016

YIELD (bu/a)

Strain	Mean 17 Tests	Boone County IA	Crawfords- ville IA	Arthur IL	Urbana IL	Wanatah IN	West Lafayette IN	Man- hattan KS	Ottawa KS
IA3023 (III)	66.3	69.4	46.7	82.9	59.0	61.8	64.0	62.1	67.9
IA3048 (SCN)	67.2	70.3	49.2	73.2	65.9	68.9	70.1	68.9	70.2
LD07-3395bf (SCN)	68.8	72.4	52.2	78.2	66.7	65.9	70.7	68.3	67.6
U11-920017	62.7	67.1	59.0	77.9	61.1	62.0	62.6	59.5	64.2
AR14-248020	63.1	70.8	45.8	77.9	60.3	66.1	65.5	54.7	65.2
DSN11-06152	67.5	70.3	46.1	88.3	68.8	67.2	67.1	64.6	72.0
HR10-3325	65.0	69.9	43.0	82.4	67.1	66.8	62.1	62.1	71.0
LD11-10069	65.2	66.2	43.9	78.2	66.0	68.4	59.5	63.9	71.3
LD11-2170	72.3	80.2	56.7	87.1	71.5	67.0	69.7	66.6	70.4
LD12-3866	68.0	68.9	45.4	79.8	64.1	71.6	71.5	60.5	72.0
LG12-2177	68.8	62.4	62.7	80.6	67.5	67.0	71.0	61.6	68.7
LG13-1006	67.8	66.0	54.7	74.6	60.2	73.4	72.2	58.8	64.5
SA12-1455	73.6	75.3	48.7	85.0	72.9	69.9	73.7	63.5	75.0
U11-346046	64.4	65.4	49.7	75.0	63.1	73.0	67.9	58.8	64.3
U11-377007	67.0	63.2	42.6	73.2	64.1	69.8	64.5	62.6	74.5
U11-396034	65.1	64.6	45.3	79.0	65.0	65.8	73.4	60.0	66.6
U11-494100	66.4	65.0	45.3	79.6	56.0	67.7	68.1	64.4	72.8
U11-614093	65.4	63.4	51.3	78.5	61.2	68.2	62.2	60.6	71.4
U12-209068	66.4	60.7	46.8	71.0	65.0	69.7	65.3	65.9	71.9
U12-428210	69.2	71.1	48.5	78.2	64.3	67.8	68.6	64.1	74.2
U12-428214	67.2	63.3	44.6	83.4	63.5	65.9	73.9	59.7	70.9
U13-602187	68.4	59.0	46.7	76.7	62.5	70.0	66.3	63.5	74.9
U13-614037	62.7	61.3	41.3	78.2	57.2	72.3	64.5	58.5	71.5
U13-931068	68.8	68.7	43.0	81.3	64.1	68.7	65.0	58.9	75.6
Location Mean		67.3	48.3	79.2	64.0	68.1	67.5	62.2	70.4
C.V. (%)		4.5	10.7	5.4	6.8	7.4	8.6	7.0	4.2
L.S.D. (5%)		6.2	10.7	8.8	9.0	8.3	9.6	6.0	4.9
Row Sp. (In.)		30	30	30	30	30	30	30	30
Rows/Plot		4	4	4	4	4	4	4	4
Reps		2	2	2	2	3	3	3	3

UNIFORM TEST III, 2016

YIELD (bu/a)

Strain	Albany MO	Novelty MO	Portageville Clay MO	Portageville Loam MO	Clay Center NE	Lincoln NE	Wymore NE	Hoyt- ville OH	So Charl- eston OH
IA3023 (III)	83.9	63.6	56.9	54.7	83.0	65.6	81.2	65.5	58.6
IA3048 (SCN)	80.7	77.5	51.8	65.7	80.4	48.1	64.3	64.2	73.7
LD07-3395bf (SCN)	86.6	62.2	59.6	69.7	91.9	58.2	77.9	63.3	58.7
U11-920017	77.2	60.7	42.4	38.0	80.5	65.2	77.9	53.5	57.4
AR14-248020	76.7	58.1	40.3	48.5	83.2	65.4	78.3	66.1	49.1
DSN11-06152	84.3	57.3	54.1	64.3	80.4	66.7	79.9	53.0	62.9
HR10-3325	81.1	26.0	62.8	62.6	83.1	64.2	72.0	82.2	47.4
LD11-10069	80.9	46.5	62.9	70.7	66.9	63.8	72.6	70.7	56.3
LD11-2170	86.0	76.9	61.7	67.9	82.2	65.5	78.7	72.5	68.9
LD12-3866	79.7	49.3	64.4	73.1	83.2	64.8	79.8	66.7	61.0
LG12-2177	83.7	62.1	60.2	61.5	87.3	67.7	81.6	57.8	66.5
LG13-1006	78.2	62.7	59.2	64.0	86.5	64.6	86.9	64.3	61.2
SA12-1455	87.2	68.1	62.6	77.6	92.7	66.4	87.1	69.6	75.6
U11-346046	75.5	52.9	50.2	56.3	80.3	66.7	75.4	65.9	54.6
U11-377007	89.5	35.7	65.5	73.1	86.0	69.8	80.6	62.9	62.2
U11-396034	77.6	35.1	55.0	60.4	85.9	61.2	79.3	75.0	57.9
U11-494100	83.9	37.9	61.7	64.4	84.0	63.0	79.8	71.2	64.0
U11-614093	80.2	56.2	57.4	60.2	79.5	64.0	77.1	57.5	63.6
U12-209068	77.0	50.6	67.3	63.3	82.5	57.7	76.9	73.5	63.4
U12-428210	82.9	57.8	64.5	68.9	90.7	62.4	75.9	71.3	65.4
U12-428214	79.0	52.7	62.5	60.9	82.9	67.4	72.8	70.1	68.5
U13-602187	81.4	67.6	63.7	67.7	83.4	69.9	76.2	68.8	64.4
U13-614037	74.6	43.1	61.5	65.4	84.8	58.8	74.5	45.3	53.4
U13-931068	82.2	61.4	64.3	62.2	86.4	70.5	78.5	79.1	59.0
Location Mean	81.3	55.1	58.9	63.4	83.7	64.1	77.7	66.2	61.4
C.V. (%)	5.4	12.0	8.0	8.0	7.5	9.0	6.7	12.0	13.5
L.S.D. (5%)	7.3	10.9	9.2	9.9	15.4	14.2	12.8	13.1	13.6
Row Sp. (In.)	30	30	30	30	30	30	30	7.5	15
Rows/Plot	4	4	4	4	4	4	4	8	6
Reps	3	3	2	3	2	2	2	3	3

UNIFORM TEST III, 2016

YIELD RANK

Strain	Yield Rank	Boone County IA	Crawfordsville IA	Arthur IL	Urbana IL	Wanatah IN	West Lafayette IN	Manhattan KS	Ottawa KS
IA3023 (III)	16	9	12	5	22	24	20	12	18
IA3048 (SCN)	11	7	8	23	8	9	8	1	16
LD07-3395bf (SCN)	4	3	5	13	6	20	7	2	19
U11-920017	23	12	2	17	19	23	21	19	24
AR14-248020	22	5	15	17	20	19	15	24	21
DSN11-06152	10	6	14	1	3	15	13	5	7
HR10-3325	20	8	22	6	5	18	23	12	13
LD11-10069	18	13	20	13	7	11	24	8	12
LD11-2170	2	1	3	2	2	16	9	3	15
LD12-3866	8	10	16	9	12	4	5	16	7
LG12-2177	4	21	1	8	4	16	6	14	17
LG13-1006	9	14	4	21	21	1	4	21	22
SA12-1455	1	2	9	3	1	6	2	9	2
U11-346046	21	15	7	20	16	2	12	21	23
U11-377007	13	20	23	22	12	7	18	11	4
U11-396034	19	17	17	11	9	22	3	17	20
U11-494100	14	16	18	10	24	14	11	6	6
U11-614093	17	18	6	12	18	12	22	15	11
U12-209068	14	23	11	24	9	8	16	4	9
U12-428210	3	4	10	13	11	13	10	7	5
U12-428214	11	19	19	4	15	20	1	18	14
U13-602187	7	24	13	19	17	5	14	10	3
U13-614037	23	22	24	13	23	3	18	23	10
U13-931068	4	11	21	7	12	10	17	20	1

UNIFORM TEST III, 2016

YIELD RANK

Strain	Albany MO	Novelty MO	Portageville Clay MO	Portageville Loam MO	Clay Center NE	Lincoln NE	Wymore NE	Hoyt- ville OH	So Charl- eston OH
IA3023 (III)	6	5	18	22	15	9	4	15	17
IA3048 (SCN)	14	1	21	9	21	24	24	17	2
LD07-3395bf (SCN)	3	7	15	5	2	22	14	18	16
U11-920017	20	10	23	24	19	12	14	22	19
AR14-248020	22	11	24	23	13	11	12	13	23
DSN11-06152	5	13	20	12	21	7	6	23	11
HR10-3325	12	24	8	15	14	15	23	1	24
LD11-10069	13	19	7	4	24	17	22	8	20
LD11-2170	4	2	11	7	18	10	10	5	3
LD12-3866	16	18	4	2	13	13	8	12	14
LG12-2177	8	8	14	17	4	4	3	20	5
LG13-1006	18	6	16	13	5	14	2	16	13
SA12-1455	2	3	9	1	1	8	1	10	1
U11-346046	23	15	22	21	22	7	19	14	21
U11-377007	1	22	2	2	7	3	5	19	12
U11-396034	19	23	19	19	8	20	9	3	18
U11-494100	7	21	11	11	10	18	8	7	8
U11-614093	15	14	17	20	23	16	15	21	9
U12-209068	21	17	1	14	17	23	16	4	10
U12-428210	9	12	3	6	3	19	18	6	6
U12-428214	17	16	10	18	16	5	21	9	4
U13-602187	11	4	6	8	11	2	17	11	7
U13-614037	24	20	13	10	9	21	20	24	22
U13-931068	10	9	5	16	6	1	11	2	15

UNIFORM TEST III, 2016

MATURITY (date)

Strain	Mean 16 Tests	Boone County IA	Crawfords- ville IA	Arthur IL	Urbana IL	Wanatah IN	West Lafayette IN	Man- hattan KS	Ottawa KS
IA3023 (III)	9/24	10/5	9/13	9/25	9/25	9/29	9/25	9/27	9/24
IA3048 (SCN)	-1	-3	-1	-6	-1	1	1	2	1
LD07-3395bf (SCN)	2	2	-5	-2	4	6	2	1	2
U11-920017	-5	-8	6	-10	-6	-1	1	2	-6
AR14-248020	-4	-6	3	-10	-5	0	0	5	-5
DSN11-06152	-0	2	2	-2	0	0	0	1	0
HR10-3325	-1	-4	8	-6	-2	0	1	3	0
LD11-10069	1	2	-2	-2	2	1	7	2	3
LD11-2170	-1	-6	1	-4	1	0	9	1	-2
LD12-3866	2	4	-6	-1	4	4	0	4	2
LG12-2177	3	1	-7	6	5	6	8	2	5
LG13-1006	-1	-3	0	-3	-3	2	2	2	1
SA12-1455	5	6	-13	8	11	10	11	1	7
U11-346046	-3	-2	0	-6	-4	-1	-2	3	-2
U11-377007	2	3	-5	2	3	3	2	1	5
U11-396034	-2	-6	5	-8	0	1	0	2	-3
U11-494100	1	-1	-5	2	1	3	3	1	3
U11-614093	-1	1	0	-1	0	1	2	2	-1
U12-209068	1	2	-5	-1	3	7	5	2	5
U12-428210	3	4	-9	2	5	6	8	1	4
U12-428214	5	7	-10	6	5	9	10	2	5
U13-602187	0	-2	2	-3	1	0	-1	3	3
U13-614037	-2	-3	1	-5	-1	0	-1	2	-1
U13-931068	1	1	2	-5	2	1	2	1	3
Date Planted	5/21	5/15	5/6	5/18	5/23	5/23	5/22	6/2	6/6
Days to Mature	126	143	130	130	125	129	126	117	110

UNIFORM TEST III, 2016

MATURITY (date)

Strain	Albany MO	Novelty MO	Portageville Clay MO	Portageville Loam MO	Clay Center NE	Lincoln NE	Wymore NE	Hoyt- ville OH	So Charl- eston OH
IA3023 (III)	10/9	9/21	9/13	8/28	9/25		10/2	10/6	9/26
IA3048 (SCN)	-2	2	-5	2	-1		-1	-1	1
LD07-3395bf (SCN)	1	2	1	6	2		0	6	5
U11-920017	-7	-1	-13	-12	-2		-3	-9	-7
AR14-248020	-7	-1	-10	-5	-2		-4	-5	-4
DSN11-06152	-5	-1	-2	1	0		-1	2	1
HR10-3325	-4	-2	-3	1	-2		-2	0	-2
LD11-10069	-1	-1	0	5	0		0	3	4
LD11-2170	-9	0	-3	0	-1		-3	-2	-1
LD12-3866	1	-1	1	6	0		-1	4	3
LG12-2177	0	3	3	6	2		1	0	8
LG13-1006	-5	0	-5	-1	0		0	-1	2
SA12-1455	3	5	3	11	4		2	6	11
U11-346046	-4	-0	-8	-2	-4		-3	-6	-5
U11-377007	-2	-2	4	7	2		1	3	5
U11-396034	-7	-2	-6	-2	-2		-5	1	0
U11-494100	-0	-2	2	5	-1		0	5	5
U11-614093	-4	-1	-5	-1	-1		-1	-2	-1
U12-209068	0	1	-2	3	0		-2	1	5
U12-428210	3	4	2	6	4		2	4	8
U12-428214	3	2	4	7	4		2	7	12
U13-602187	-4	2	-1	4	1		-1	0	1
U13-614037	-6	-2	-1	2	-2		-3	-5	-2
U13-931068	-1	0	-2	3	-2		0	2	5
Date Planted	6/9	5/24	5/9	4/21	5/20		6/4	5/28	5/17
Days to Mature	122	120	127	129	128		120	131	132

UNIFORM TEST III, 2016

LODGING (score)

Strain	Mean 16 Tests	Boone County IA	Crawfords- ville IA	Arthur IL	Urbana IL	Wanatah IN	West Lafayette IN	Man- hattan KS	Ottawa KS
IA3023 (III)	2.0	1.0	2.8	3.0	1.3	1.0	1.5	2.3	1.7
IA3048 (SCN)	2.4	2.5	2.5	4.0	1.5	1.5	2.0	2.7	2.0
LD07-3395bf (SCN)	2.2	1.0	3.0	3.0	1.5	1.0	1.7	3.0	2.3
U11-920017	1.9	1.5	2.8	2.5	1.8	1.0	2.5	1.7	2.0
AR14-248020	2.6	2.0	3.3	3.5	2.0	1.2	4.5	3.3	3.0
DSN11-06152	1.6	1.0	3.0	2.5	1.0	1.0	1.7	2.0	1.0
HR10-3325	2.3	1.5	3.5	3.8	2.0	1.2	2.8	2.0	2.7
LD11-10069	2.8	2.5	3.5	3.0	2.3	2.3	4.0	3.0	2.3
LD11-2170	1.7	1.0	2.3	1.8	1.3	1.0	1.7	2.0	1.7
LD12-3866	2.2	1.5	3.3	2.8	1.8	1.0	1.8	2.0	3.0
LG12-2177	2.7	2.0	3.3	3.5	2.0	1.3	3.5	2.7	3.3
LG13-1006	2.5	2.0	3.5	3.5	1.5	1.8	4.0	2.3	2.0
SA12-1455	1.6	1.0	2.3	2.8	1.5	1.0	1.7	1.3	1.0
U11-346046	2.9	2.5	3.8	3.8	2.8	1.3	4.8	3.3	2.7
U11-377007	2.3	1.0	2.8	3.0	1.8	1.0	2.8	2.3	2.3
U11-396034	1.6	1.0	2.8	1.8	1.0	1.0	1.8	2.0	1.3
U11-494100	2.2	2.5	3.0	3.0	1.3	1.3	2.5	2.3	2.3
U11-614093	1.8	1.0	3.3	2.3	1.0	1.0	2.3	1.7	1.3
U12-209068	2.7	1.0	3.3	3.5	2.0	1.8	3.8	3.3	2.7
U12-428210	2.2	2.0	2.5	3.0	1.8	1.3	3.5	2.3	1.7
U12-428214	2.3	2.0	2.8	3.0	1.8	1.3	2.5	2.3	2.3
U13-602187	2.1	1.0	2.8	2.0	1.3	1.2	4.0	2.0	1.7
U13-614037	1.6	1.0	2.8	2.0	1.3	1.0	1.3	2.0	1.0
U13-931068	2.3	2.0	3.0	2.8	1.5	1.3	2.5	2.3	1.7

UNIFORM TEST III, 2016

LODGING (score)

Strain	Albany MO	Novelty MO	Portageville Clay MO	Portageville Loam MO	Clay Center NE	Lincoln NE	Wymore NE	Hoyt- ville OH	So Charl- eston OH
IA3023 (III)	2.8	2.3	3.0	2.0	1.5		2.5	1.0	2.0
IA3048 (SCN)	3.0	3.5	2.3	2.0	2.5		4.0	1.0	2.0
LD07-3395bf (SCN)	3.3	4.5	2.7	2.0	1.5		2.0	1.0	2.0
U11-920017	2.8	2.8	2.0	2.0	1.5		1.0	1.0	2.3
AR14-248020	2.8	3.7	2.7	2.7	1.5		1.0	1.0	4.0
DSN11-06152	2.5	1.7	2.3	2.0	1.5		1.0	1.0	1.0
HR10-3325	3.2	2.5	2.3	2.3	2.0		1.0	1.0	3.3
LD11-10069	3.7	3.8	3.0	2.0	2.0		3.0	1.0	3.0
LD11-2170	2.0	3.5	2.0	2.0	1.5		1.0	1.0	2.0
LD12-3866	3.0	4.0	3.0	3.0	1.5		1.0	1.0	2.3
LG12-2177	3.2	3.0	3.0	3.0	2.0		3.0	1.0	4.0
LG13-1006	3.5	3.7	2.7	2.0	1.5		1.5	1.0	3.3
SA12-1455	1.7	2.2	2.0	2.0	1.5		1.0	1.0	2.0
U11-346046	3.3	3.5	3.0	2.3	2.0		2.0	1.0	4.0
U11-377007	2.7	2.5	3.0	2.7	2.0		3.0	1.0	2.3
U11-396034	1.8	2.3	2.0	2.0	1.5		1.0	1.0	1.0
U11-494100	3.2	2.8	2.3	2.0	1.5		1.5	1.0	2.3
U11-614093	2.5	2.2	2.3	2.0	1.5		1.0	1.0	1.7
U12-209068	3.5	3.7	2.3	2.0	1.5		4.0	1.0	3.3
U12-428210	3.0	3.5	2.0	2.0	2.0		2.5	1.0	1.7
U12-428214	2.7	3.5	3.0	2.0	2.0		2.0	1.0	3.0
U13-602187	2.7	3.5	2.0	2.3	2.0		2.0	1.0	2.0
U13-614037	2.2	1.7	2.0	2.0	1.0		1.0	1.0	2.0
U13-931068	2.8	3.7	2.7	2.3	2.0		2.0	1.0	3.0

UNIFORM TEST III, 2016

PLANT HEIGHT (inches)

Strain	Mean 15 Tests	Boone County IA	Crawfords- ville IA	Arthur IL	Urbana IL	Wanatah IN	West Lafayette IN	Man- hattan KS	Ottawa KS
IA3023 (III)	38.9	41	48	42	38	39	45	43	37
IA3048 (SCN)	38.6	41	41	42	38	39	46	43	38
LD07-3395bf (SCN)	36.6	37	38	42	36	36	41	41	38
U11-920017	35.3	37	40	41	37	37	39	37	35
AR14-248020	38.8	43	36	47	38	39	47	44	38
DSN11-06152	36.5	36	38	42	37	38	43	40	37
HR10-3325	39.9	38	43	46	41	41	47	43	40
LD11-10069	40.2	43	45	46	40	40	42	46	41
LD11-2170	36.3	38	40	42	37	36	38	40	37
LD12-3866	41.2	44	47	47	42	40	48	43	41
LG12-2177	38.4	38	41	43	40	40	45	43	38
LG13-1006	42.1	45	48	48	41	44	49	44	41
SA12-1455	36.9	36	42	40	37	39	43	40	38
U11-346046	37.1	41	40	40	41	36	44	36	35
U11-377007	40.4	41	47	47	41	39	45	46	42
U11-396034	39.0	40	43	45	39	40	47	42	37
U11-494100	41.5	42	46	47	40	43	50	46	41
U11-614093	39.0	40	42	47	38	39	45	43	37
U12-209068	39.2	41	44	42	41	39	46	41	39
U12-428210	41.7	45	45	46	42	42	48	45	41
U12-428214	42.1	43	48	47	41	43	48	45	42
U13-602187	40.8	40	46	47	42	40	45	45	40
U13-614037	41.0	42	42	49	41	40	50	45	41
U13-931068	40.5	41	45	45	40	43	49	44	40

UNIFORM TEST III, 2016

PLANT HEIGHT (inches)

Strain	Albany MO	Novelty MO	Portageville Clay MO	Portageville Loam MO	Clay Center NE	Lincoln NE	Wymore NE	Hoyt- ville OH	So Charl- eston OH
IA3023 (III)	41	39	34	26			43	31	37
IA3048 (SCN)	43	42	32	26			45	29	35
LD07-3395bf (SCN)	36	37	33	27			46	29	33
U11-920017	39	37	27	23			43	26	32
AR14-248020	40	40	30	29			48	29	34
DSN11-06152	40	38	31	25			46	25	33
HR10-3325	41	40	33	31			47	33	36
LD11-10069	42	40	36	29			44	33	36
LD11-2170	36	38	32	26			40	29	34
LD12-3866	43	40	37	31			45	32	38
LG12-2177	40	39	32	29			44	29	35
LG13-1006	43	42	35	32			47	33	39
SA12-1455	39	37	31	31			43	29	31
U11-346046	39	36	34	28			41	29	37
U11-377007	43	38	37	31			44	31	37
U11-396034	41	39	33	27			47	31	34
U11-494100	43	40	39	30			45	32	38
U11-614093	41	39	34	28			46	29	37
U12-209068	41	37	35	30			46	31	36
U12-428210	45	43	36	30			47	34	38
U12-428214	46	41	38	31			47	33	40
U13-602187	43	39	37	33			47	33	36
U13-614037	43	40	37	32			47	29	37
U13-931068	43	41	34	32			44	31	37

UNIFORM TEST III, 2016

SEED SIZE (g/100)

Strain	Mean 16 Tests	Boone County IA	Crawfords- ville IA	Arthur IL	Urbana IL	Wanatah IN	West Lafayette IN	Man- hattan KS	Ottawa KS
IA3023 (III)	15.9	15.1	10.5	16.3	15.9	15.2	16.1	18.4	18.5
IA3048 (SCN)	15.3	13.9	10.5	14.6	15.3	17.3	16.1	16.9	17.1
LD07-3395bf (SCN)	16.0	15.2	10.7	15.3	16.9	17.8	17.5	17.7	17.4
U11-920017	16.5	16.3	12.1	16.3	15.3	17.7	18.5	17.0	17.0
AR14-248020	16.1	15.8	12.1	16.2	17.4	17.0	17.6	17.3	17.2
DSN11-06152	15.6	15.6	10.6	16.1	15.9	16.7	15.9	16.8	16.6
HR10-3325	15.0	14.3	10.3	16.0	15.0	15.9	15.5	16.6	16.3
LD11-10069	14.5	14.2	10.3	15.3	15.9	15.7	16.7	15.9	15.1
LD11-2170	15.7	15.3	11.5	16.8	16.0	16.3	17.5	17.3	15.3
LD12-3866	15.1	15.1	11.0	16.0	16.2	15.7	17.0	16.4	15.2
LG12-2177	15.9	13.8	12.2	16.0	17.5	16.9	18.4	18.0	16.1
LG13-1006	17.8	16.6	12.5	18.0	17.6	19.4	20.8	18.5	17.0
SA12-1455	17.6	17.9	11.7	19.5	18.5	19.4	21.5	17.8	17.4
U11-346046	16.6	16.7	12.3	16.2	17.9	16.9	18.0	18.1	16.7
U11-377007	16.2	16.1	11.0	17.2	17.6	18.0	17.5	17.8	16.4
U11-396034	14.3	14.0	9.9	14.4	14.4	15.7	16.2	14.4	15.9
U11-494100	14.8	14.6	10.2	15.7	15.5	16.6	14.7	15.5	15.0
U11-614093	16.0	15.0	12.1	17.2	15.6	16.9	16.5	16.9	17.1
U12-209068	17.5	16.3	12.0	18.0	17.7	19.3	17.7	19.8	19.3
U12-428210	16.0	15.4	10.6	16.8	16.7	18.0	18.3	17.3	15.2
U12-428214	17.1	16.8	11.5	17.9	18.3	19.4	18.8	16.7	18.0
U13-602187	14.7	13.1	10.8	15.3	14.1	15.4	15.2	16.5	15.6
U13-614037	13.8	13.1	10.0	15.0	14.2	15.0	14.9	15.2	13.7
U13-931068	16.9	16.9	11.5	16.8	17.3	17.6	17.4	19.1	17.6

UNIFORM TEST III, 2016

SEED SIZE (g/100)

Strain	Albany MO	Novelty MO	Portageville Clay MO	Portageville Loam MO	Clay Center NE	Lincoln NE	Wymore NE	Hoyt- ville OH	So Charl- eston OH
IA3023 (III)	18.9	12.9	14.5	15.8	16.4		17.8	16.8	14.9
IA3048 (SCN)	17.5	14.3	11.9	14.1	14.9		16.1	18.4	15.4
LD07-3395bf (SCN)	19.1	14.1	13.4	13.9	16.4		17.6	17.2	15.1
U11-920017	19.0	14.4	15.2	14.8	18.2		18.5	17.6	15.7
AR14-248020	17.1	13.7	13.9	14.2	16.1		17.5	19.0	16.2
DSN11-06152	18.6	13.7	13.6	14.1	16.3		17.7	16.9	14.7
HR10-3325	17.1	11.0	13.7	16.4	14.8		16.4	16.7	14.0
LD11-10069	16.3	10.9	12.2	13.4	14.8		16.0	15.9	13.7
LD11-2170	16.9	15.3	13.7	14.6	15.5		16.7	17.3	15.3
LD12-3866	17.4	11.8	12.8	14.1	16.0		16.2	15.7	14.6
LG12-2177	17.9	14.3	14.2	14.6	16.3		17.0	16.0	15.3
LG13-1006	20.0	16.4	15.9	15.9	18.3		18.8	20.1	18.6
SA12-1455	19.5	15.1	14.7	14.6	17.8		19.5	18.0	18.8
U11-346046	18.7	13.7	14.6	15.9	16.7		18.3	19.3	14.9
U11-377007	20.5	12.0	13.2	13.7	16.9		19.2	17.1	15.6
U11-396034	16.8	13.1	12.2	12.7	14.1		16.1	15.4	13.6
U11-494100	16.9	11.8	13.5	13.7	15.5		16.9	16.4	13.8
U11-614093	18.7	14.9	13.5	14.8	16.7		18.0	16.7	14.9
U12-209068	18.4	14.2	15.6	17.5	17.4		19.7	20.0	17.7
U12-428210	18.2	13.9	14.0	14.5	16.2		18.0	17.5	16.2
U12-428214	19.7	14.5	14.5	16.1	16.8		17.8	19.3	17.7
U13-602187	16.3	13.9	12.7	14.0	15.5		16.4	17.3	13.9
U13-614037	16.1	11.5	11.1	11.8	14.0		15.9	15.8	12.9
U13-931068	19.0	14.9	15.5	17.7	15.9		18.4	18.1	16.3

UNIFORM TEST III, 2016

SEED QUALITY (score)

Strain	Mean 16 Tests	Boone County IA	Crawfords- ville IA	Arthur IL	Urbana IL	Wanatah IN	West Lafayette IN	Man- hattan KS	Ottawa KS
IA3023 (III)	1.7	2.0	2.0	2.0	2.0	1.0	1.0	2.0	3.0
IA3048 (SCN)	1.8	2.0	2.0	2.0	2.0	1.0	1.0	3.0	3.0
LD07-3395bf (SCN)	1.9	1.5	2.0	2.0	2.0	1.0	1.0	3.0	3.0
U11-920017	2.2	2.0	2.0	2.0	2.0	2.0	2.0	4.0	3.0
AR14-248020	2.0	1.5	2.0	2.0	2.0	1.0	1.5	3.0	3.0
DSN11-06152	1.7	2.0	2.0	2.0	2.0	1.0	1.0	3.0	3.0
HR10-3325	1.8	1.5	2.0	2.0	2.0	1.0	1.0	3.0	3.0
LD11-10069	1.8	2.5	2.0	2.0	1.0	1.0	1.0	3.0	3.0
LD11-2170	1.9	1.5	1.0	2.0	2.0	1.0	1.5	4.0	3.0
LD12-3866	1.7	2.0	2.0	2.0	2.0	1.0	2.0	3.0	3.0
LG12-2177	1.8	2.0	2.0	2.0	2.0	1.0	1.5	3.0	2.0
LG13-1006	2.1	2.0	2.0	2.0	2.0	1.0	2.0	3.0	3.0
SA12-1455	1.9	1.5	3.0	2.0	2.0	1.0	1.0	3.0	2.0
U11-346046	1.8	3.0	2.0	2.0	2.0	1.0	1.0	3.0	2.0
U11-377007	1.9	2.0	2.0	2.0	2.0	1.0	1.5	3.0	3.0
U11-396034	1.9	1.0	3.0	2.0	2.0	1.0	1.0	3.0	2.0
U11-494100	1.6	2.0	2.0	2.0	2.0	1.0	1.0	2.0	2.0
U11-614093	1.9	2.0	2.0	2.0	2.0	1.0	1.5	3.0	2.0
U12-209068	2.0	2.5	2.0	2.0	2.0	1.0	1.0	2.0	3.0
U12-428210	1.9	2.5	2.0	2.0	2.0	1.0	1.5	2.0	3.0
U12-428214	2.1	2.5	3.0	2.0	2.0	1.0	1.5	3.0	2.0
U13-602187	1.9	2.5	2.0	2.0	2.0	1.0	1.5	3.0	2.0
U13-614037	2.0	2.5	2.0	2.0	2.0	1.0	1.0	3.0	3.0
U13-931068	1.9	2.5	2.0	2.0	2.0	1.0	1.0	3.0	2.0

UNIFORM TEST III, 2016

SEED QUALITY (score)

Strain	Albany MO	Novelty MO	Portageville Clay MO	Portageville Loam MO	Clay Center NE	Lincoln NE	Wymore NE	Hoyt- ville OH	So Charl- eston OH
IA3023 (III)	1.8	1.2	2.0	3.7	1.0		1.0	1.0	1.0
IA3048 (SCN)	1.8	1.3	1.7	2.7	1.0		1.0	1.0	1.7
LD07-3395bf (SCN)	2.5	1.5	3.0	2.0	1.0		1.0	1.0	2.3
U11-920017	2.3	2.7	2.7	4.0	1.0		1.0	1.0	1.3
AR14-248020	2.7	1.0	3.0	4.0	1.0		1.0	1.0	1.7
DSN11-06152	2.5	1.8	1.3	2.0	1.0		1.0	1.0	1.3
HR10-3325	2.0	2.5	2.0	2.7	1.0		1.0	1.0	1.3
LD11-10069	1.5	2.0	2.0	3.0	1.0		1.0	1.0	1.7
LD11-2170	2.0	1.8	1.7	2.7	1.0		2.0	1.0	2.0
LD12-3866	1.7	1.5	1.0	1.7	1.0		1.0	1.0	1.7
LG12-2177	1.8	2.0	2.0	2.3	1.0		1.0	1.0	2.3
LG13-1006	2.0	2.2	2.0	4.0	1.0		1.0	1.0	2.7
SA12-1455	2.2	2.2	2.3	2.0	2.0		2.0	1.0	1.3
U11-346046	1.5	2.3	1.3	3.3	2.0		1.0	1.0	1.0
U11-377007	2.3	1.8	1.0	1.7	2.0		2.0	1.0	1.3
U11-396034	2.3	1.8	2.0	4.0	2.0		1.0	1.0	1.7
U11-494100	2.0	1.3	1.3	2.0	2.0		1.0	1.0	1.7
U11-614093	2.0	2.0	1.3	4.3	2.0		2.0	1.0	1.0
U12-209068	3.8	1.5	1.3	3.0	2.0		2.0	1.0	2.3
U12-428210	2.8	2.0	1.0	1.3	2.0		2.0	1.0	1.7
U12-428214	2.3	2.0	2.0	2.3	2.0		2.0	1.0	2.3
U13-602187	1.5	2.0	1.0	3.0	2.0		2.0	1.0	1.7
U13-614037	2.7	2.7	1.0	2.3	2.0		2.0	1.0	1.7
U13-931068	2.2	1.7	1.3	3.0	2.0		2.0	1.0	1.7

UNIFORM TEST III, 2016

PROTEIN (%)

Strain	Mean 6 Tests	Arthur IL	Urbana IL	West Lafayette IN	Clay Center NE	Wymore NE	Hoytville OH
IA3023 (III)	33.5	33.7	32.7	33.5	32.9	34.0	34.3
IA3048 (SCN)	35.1	34.7	34.9	35.7	33.9	35.5	35.7
LD07-3395bf (SCN)	32.4	31.7	32.1	32.5	33.1	32.7	32.0
U11-920017	33.0	32.7	31.4	34.1	32.1	33.7	34.1
AR14-248020	33.6	33.3	33.9	34.5	32.7	33.6	33.5
DSN11-06152	33.2	33.6	32.6	33.4	32.4	33.3	33.8
HR10-3325	33.9	33.9	34.3	34.8	33.2	33.8	33.3
LD11-10069	34.3	34.1	34.5	34.4	33.8	34.7	34.1
LD11-2170	34.7	34.0	35.1	35.6	33.9	35.3	34.5
LD12-3866	35.3	35.5	36.3	36.0	34.3	35.3	34.4
LG12-2177	34.2	34.4	34.7	35.1	33.2	34.9	32.9
LG13-1006	34.4	34.6	34.0	35.1	33.8	34.6	34.6
SA12-1455	36.0	36.0	36.1	37.1	35.1	36.0	35.7
U11-346046	35.4	35.3	36.1	35.8	34.1	34.9	35.9
U11-377007	34.8	34.8	34.8	35.7	34.4	35.0	34.1
U11-396034	33.5	33.1	33.7	34.8	32.5	34.5	32.7
U11-494100	34.1	34.5	33.7	34.6	33.6	34.5	33.8
U11-614093	34.5	35.3	33.2	35.1	34.2	35.1	34.3
U12-209068	34.7	35.3	34.7	35.3	33.6	34.5	34.9
U12-428210	34.6	34.7	34.6	35.2	33.9	34.7	34.3
U12-428214	34.3	34.0	34.4	34.9	33.4	34.6	34.4
U13-602187	34.7	34.7	34.9	35.3	34.5	34.9	34.2
U13-614037	33.1	33.0	32.6	33.6	32.4	34.0	33.1
U13-931068	33.9	33.8	33.6	34.2	33.5	34.2	33.8

UNIFORM TEST III, 2016

OIL (%)

Strain	Mean 6 Tests	Arthur IL	Urbana IL	West Lafayette IN	Clay Center NE	Wymore NE	Hoytville OH
IA3023 (III)	19.9	20.2	20.6	20.5	19.0	19.1	20.0
IA3048 (SCN)	19.1	19.7	19.6	19.7	18.4	18.2	19.3
LD07-3395bf (SCN)	20.6	21.4	21.1	21.0	19.5	19.8	20.9
U11-920017	20.5	21.0	21.4	20.6	19.9	19.6	20.5
AR14-248020	19.8	20.4	20.4	20.2	18.7	19.1	19.9
DSN11-06152	19.7	19.9	20.4	20.1	18.7	19.0	19.9
HR10-3325	19.4	20.1	19.7	19.6	18.5	18.9	19.5
LD11-10069	18.8	19.3	19.3	19.5	17.7	17.9	19.1
LD11-2170	20.1	20.9	20.3	20.3	19.2	19.2	20.4
LD12-3866	19.6	20.1	19.5	19.8	19.0	18.9	20.2
LG12-2177	20.1	20.4	20.4	20.2	19.4	19.4	20.9
LG13-1006	20.3	20.8	20.8	20.7	19.7	19.2	20.5
SA12-1455	19.3	20.0	19.7	19.4	18.7	18.9	19.4
U11-346046	19.3	19.8	19.4	19.7	18.4	18.7	19.6
U11-377007	19.7	20.1	20.2	20.0	18.6	19.1	20.0
U11-396034	19.7	20.4	20.2	20.0	18.7	18.7	20.4
U11-494100	19.1	19.8	19.8	19.5	17.8	18.3	19.4
U11-614093	19.7	20.1	20.6	20.1	18.8	18.9	20.1
U12-209068	19.4	19.6	19.9	19.7	18.7	19.0	19.7
U12-428210	20.0	20.4	20.5	20.3	18.9	19.6	20.3
U12-428214	19.9	20.3	20.4	20.1	19.3	19.6	20.0
U13-602187	19.5	20.1	19.8	19.8	18.5	18.8	20.1
U13-614037	20.2	20.6	20.9	20.5	19.6	19.4	20.5
U13-931068	19.5	20.1	19.8	20.1	18.7	18.7	19.6

PRELIMINARY TEST IIIA, 2016

Ent.	Strain	Parentage	Seed Source	Gen. Comp.	Unique Traits
1	IA3023 (III)	Dairyland DSR-365 x Pioneer P9381	Fehr	F5	
2	IA3048 (SCN)	Dairyland 99540 x IA2068	Fehr	F4	SCN
3	LD07-3395bf (SCN)	LD07-3395 Reselection	Diers	F5	SCN
4	U11-920017	HS5-3417 x LD02- 4485	Graef	F6	Rps Resis.
5	AR15-359004	AR07-176037 x AX20474-13-14	Cianzio	F5	BSR
6	AR15-359008	IAR1901 BSR x AR2	Cianzio	F3	BSR
7	AR15-359011	IAR2001 BSR x ND07-4635	Cianzio	F3	BSR
8	AR15-359028	U09-129007 x AR08-286003	Cianzio	F3	BSR
9	AR15-359042	AR06-265055 x PI 567374	Cianzio	F5	SDS
10	DSN11-03004	IA3023 x 4J105-3-4	Diers/Rainey		
11	DSN11-03174	IA 3023 x 4J105-3-4	Diers/Rainey		
12	DSN11-10057	IA3023 x LD00-3309	Diers/Rainey		
13	DSN11-27183	IA3023 x LG05-4292	Diers/Rainey		
14	LG13-1952	LG06-5920 x U03-100612	Nelson	F6	Genetic Diversity
15	LG13-3578	LG05-4229 x LG04-5187	Nelson	F6	Genetic Diversity
16	LG13-3594	LG06-5920 x LG04-6000	Nelson	F6	Genetic Diversity
17	LG13-3614	LG06-5920 x LG04-6000	Nelson	F6	Genetic Diversity
18	LG13-3975	LG04-5196 x LG06-5920	Nelson	F6	Genetic Diversity
19	LG14-6165	06NB204846 x LG04-5190	Nelson	F6	Genetic Diversity
20	LG14-6166	06NB204846 x LG04-5190	Nelson	F6	Genetic Diversity
21	SA13-1310	K07-1633 x LD04-13265	Scaboo	F4	
22	SA13-1363	K07-1633 x LD04-13265	Scaboo	F4	
23	SA13-1385	K07-1633 x LD04-13265	Scaboo	F4	
24	SA13-2047	LD07-3419 x LG06-5920	Scaboo	F4	
25	SA13-2126	LD07-3419 x K08-6247	Scaboo	F4	
26	SA13-2489	LD07-3419 x K07-1633	Scaboo	F4	
27	SA13-2699	LS07-3125 x LD04-13265	Scaboo	F4	
28	SA13-3135	LS07-3125 x LG07-2309	Scaboo	F4	

PRELIMINARY TEST IIIA, 2016

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	Shattering	Green Stem
		Score Man- hattan	Score So Charleston
IA3023 (III)	WGBIYDibI	3.0	2.5
IA3048 (SCN)	WGTSYYI	2.0	2.0
LD07-3395bf (SCN)	WGTSYBfI	1.0	4.0
U11-920017	WGBIYBfI	2.0	1.0
AR15-359004	WTBSYBI	3.0	4.0
AR15-359008	P+WTBSYBI	1.0	3.5
AR15-359011	P+WTBSYBrI	1.0	2.0
AR15-359028	WTBSYYI	1.0	2.0
AR15-359042	P+WGTSYDib+BfI	1.0	2.0
DSN11-03004	WGTIYDibI	2.0	2.0
DSN11-03174	WGTSYDibI	1.0	3.5
DSN11-10057	PTBSYB+LbI	1.0	2.0
DSN11-27183	WGTIYBfI	1.0	2.5
LG13-1952	PGTSYDibI	1.0	1.0
LG13-3578	WTBIYBrI	1.0	4.5
LG13-3594	PGBSYDibI	1.0	3.0
LG13-3614	WGBSYDibI	1.0	3.5
LG13-3975	PGBSYDibI	1.0	3.5
LG14-6165	WGBIYDibI	1.0	1.0
LG14-6166	WGTSYDibI	2.0	1.0
SA13-1310	PGBSYDibI	1.0	4.0
SA13-1363	PGTSYDibI	1.0	2.5
SA13-1385	WGBSYDibI	1.0	4.5
SA13-2047	WGTSYBfI	1.0	2.0
SA13-2126	PGTSYDibI	1.0	3.0
SA13-2489	WGBSYDibI	1.0	3.0
SA13-2699	PGTSYDibI	1.0	5.0
SA13-3135	PGTSYDibI	1.0	2.5

PRELIMINARY TEST IIIA, 2016

REGIONAL SUMMARY

No. of Tests Strain	Yield 11 bu/a	Rank 11 No.	Maturity 11 Date	Lodging 11 Score	Plant Height 10 In.	Seed Size 11 g/100	Seed Quality 11 Score	Composition	
								Protein 5 %	Oil 5 %
IA3023 (III)	68.6	12	9/26	1.8	39	15.6	1.7	33.1	19.8
IA3048 (SCN)	69.7	7	-1.2	2.3	40	15.1	1.7	34.7	19.1
LD07-3395bf (SCN)	71.3	4	1.0	1.9	37	15.8	1.8	32.4	20.4
U11-920017	67.2	15	-4.9	1.7	36	16.8	1.9	32.3	20.7
AR15-359004	57.6	28	0.1	3.4	51	15.4	1.9	35.2	19.1
AR15-359008	64.2	22	-1.0	2.9	42	15.9	1.9	35.1	19.5
AR15-359011	63.7	25	-2.6	2.4	41	17.6	2.1	35.1	19.2
AR15-359028	69.0	10	-2.2	2.6	39	15.8	1.7	34.7	19.9
AR15-359042	60.1	27	-0.1	3.1	45	15.8	2.0	35.2	18.5
DSN11-03004	64.8	19	1.0	2.3	44	17.0	1.5	35.1	19.2
DSN11-03174	69.4	8	1.4	1.6	38	17.2	1.5	33.5	19.4
DSN11-10057	67.5	14	-0.2	1.9	40	15.2	1.8	33.2	19.2
DSN11-27183	68.8	11	0.5	1.8	43	14.9	1.4	33.1	19.9
LG13-1952	66.0	17	0.1	2.4	45	14.9	2.2	34.5	19.3
LG13-3578	60.7	26	2.7	2.4	47	17.7	1.9	33.7	19.5
LG13-3594	64.3	21	1.5	2.9	44	15.4	2.0	34.6	19.3
LG13-3614	65.2	18	2.4	3.4	46	14.6	2.0	35.9	18.8
LG13-3975	64.5	20	2.5	2.8	45	17.7	1.9	35.4	18.9
LG14-6165	69.3	9	-0.5	2.6	43	18.3	2.1	34.8	19.4
LG14-6166	64.2	22	-0.7	2.7	43	18.0	2.0	35.3	18.7
SA13-1310	75.5	2	2.0	1.9	40	15.7	1.9	34.0	19.8
SA13-1363	72.6	3	1.1	2.1	39	14.3	1.6	33.7	19.7
SA13-1385	75.8	1	1.5	1.6	42	14.5	1.9	33.2	19.5
SA13-2047	67.2	15	0.3	2.8	40	13.7	1.9	33.9	18.9
SA13-2126	64.2	22	-0.3	1.5	36	14.2	2.0	33.5	19.5
SA13-2489	70.4	5	-0.7	1.3	36	14.2	1.6	31.9	19.9
SA13-2699	69.8	6	2.5	1.7	42	15.4	1.7	34.7	18.7
SA13-3135	67.8	13	0.2	1.5	40	15.1	1.6	33.9	19.3
Mean	65.5			2.3	41.4	16.1	1.8		
C.V. (%)	10.7			33.6	6.2	6.0	22.9		
L.S.D. (5%)	4.0			0.5	1.6	0.9	0.4		

127.6 Days After Planting

PRELIMINARY TEST IIIA, 2016

YIELD (bu/a)

Strain	Mean 11 Tests	Boone County IA	Crawfords- ville* IA	Urbana IL	West Lafayette IN	Man- hattan KS	Ottawa KS
IA3023 (III)	68.6	71.0	36.1	57.9	59.9	66.8	69.1
IA3048 (SCN)	69.7	72.3	57.6	64.9	57.1	65.0	74.4
LD07-3395bf (SCN)	71.3	71.7	31.4	64.5	60.7	64.4	80.0
U11-920017	67.2	67.4	63.1	61.8	58.0	62.0	65.7
AR15-359004	57.6	57.9	45.3	57.4	47.7	55.1	57.6
AR15-359008	64.2	64.9	52.4	64.5	53.6	57.4	63.9
AR15-359011	63.7	66.6	50.9	59.0	50.2	53.5	62.7
AR15-359028	69.0	70.2	56.0	62.2	60.9	62.5	68.6
AR15-359042	60.1	57.6	40.5	54.1	49.1	57.8	62.8
DSN11-03004	64.8	71.3	50.9	63.7	60.2	58.2	70.6
DSN11-03174	69.4	70.0	61.7	66.0	66.9	62.8	70.3
DSN11-10057	67.5	73.9	34.1	67.4	58.0	61.1	67.9
DSN11-27183	68.8	76.8	48.7	71.8	55.5	67.8	67.9
LG13-1952	66.0	69.9	43.6	64.9	52.1	63.7	70.2
LG13-3578	60.7	59.6	39.3	47.9	53.7	60.4	63.5
LG13-3594	64.3	71.2	40.1	56.4	51.1	62.1	62.8
LG13-3614	65.2	64.4	47.5	60.1	58.8	60.8	72.9
LG13-3975	64.5	67.5	51.0	61.0	57.4	55.4	69.4
LG14-6165	69.3	70.8	48.4	60.8	62.0	69.3	69.5
LG14-6166	64.2	65.0	44.2	58.1	59.4	61.2	71.0
SA13-1310	75.5	80.8	57.6	73.8	64.5	69.8	73.8
SA13-1363	72.6	69.6	58.0	66.3	61.1	69.2	75.1
SA13-1385	75.8	74.9	46.4	70.3	67.8	68.5	75.6
SA13-2047	67.2	72.3	36.4	60.5	49.6	60.5	71.8
SA13-2126	64.2	68.1	49.7	60.5	55.0	71.3	78.3
SA13-2489	70.4	73.7	61.5	65.7	67.3	64.6	73.5
SA13-2699	69.8	65.5	43.2	73.2	54.2	70.0	70.5
SA13-3135	67.8	66.4	35.8	61.9	57.5	66.5	71.5
Location Mean		69.0	47.5	62.7	57.5	63.1	69.7
C.V. (%)		5.9	18.1	7.8	10.1	6.9	3.1
L.S.D. (5%)		8.4	17.7	10.0	11.0	8.9	4.4
Row Sp. (In.)		30	30	30	30	30	30
Rows/Plot		4	4	4	4	4	4
Reps		2	2	2	2	2	2

*Data not included in the mean.

PRELIMINARY TEST IIIA, 2016

YIELD (bu/a)

Strain	Novelty MO	Clay Center NE	Lincoln NE	Wymore NE	Hoyt- ville OH	So Charles- ton OH
IA3023 (III)	57.7	80.9	77.7	78.6	77.5	57.7
IA3048 (SCN)	80.4	81.2	63.8	76.6	70.3	60.6
LD07-3395bf (SCN)	77.9	82.2	71.1	72.0	75.4	64.8
U11-920017	76.8	88.6	73.6	74.7	55.1	55.9
AR15-359004	68.8	69.5	46.4	63.3	53.2	56.2
AR15-359008	56.6	80.9	58.1	69.2	75.4	62.1
AR15-359011	66.9	75.2	55.5	77.2	73.6	60.8
AR15-359028	76.5	86.3	68.3	69.7	73.1	60.4
AR15-359042	62.8	74.6	56.9	63.6	66.1	56.0
DSN11-03004	56.2	80.7	60.8	55.8	74.8	61.1
DSN11-03174	85.2	81.2	61.3	66.0	72.0	61.8
DSN11-10057	82.2	74.6	59.5	68.6	67.2	61.8
DSN11-27183	76.5	75.3	66.3	66.2	73.1	59.9
LG13-1952	56.5	83.5	62.4	68.3	74.7	59.8
LG13-3578	43.9	65.0	54.2	71.9	81.6	65.8
LG13-3594	55.6	81.7	61.9	69.3	72.8	62.0
LG13-3614	52.0	82.9	58.0	61.7	78.9	67.1
LG13-3975	66.5	72.5	59.1	64.3	73.7	62.4
LG14-6165	68.6	83.5	66.2	77.0	75.4	58.6
LG14-6166	41.8	78.8	60.6	76.9	76.1	57.0
SA13-1310	80.2	83.8	67.9	75.1	86.5	73.9
SA13-1363	74.0	86.3	66.6	77.9	83.3	68.9
SA13-1385	91.4	83.9	66.6	77.6	79.5	77.6
SA13-2047	61.0	80.1	68.1	74.6	80.5	60.6
SA13-2126	46.3	68.8	63.2	67.9	72.2	54.9
SA13-2489	68.6	81.0	66.2	74.2	74.7	65.4
SA13-2699	85.0	70.4	60.1	72.8	77.9	68.5
SA13-3135	62.3	73.3	67.6	74.1	74.8	69.6
Location Mean	67.1	78.8	63.1	70.9	73.9	62.5
C.V. (%)	9.8	5.9	7.7	8.7	7.9	9.7
L.S.D. (5%)	13.6	11.5	12.0	15.2	12.0	12.1
Row Sp. (In.)	30	30	30	30	7.5	15
Rows/Plot	4	4	4	4	8	6
Reps	2	2	2	2	2	2

PRELIMINARY TEST IIIA, 2016

YIELD RANK

Strain	Yield Rank	Boone County IA	Crawfordsville IA	Urbana IL	West Lafayette IN	Manhattan KS	Ottawa KS
IA3023 (III)	12	11	25	24	10	8	18
IA3048 (SCN)	7	7	6	9	17	10	5
LD07-3395bf (SCN)	4	8	28	11	8	12	1
U11-920017	15	19	1	16	14	17	22
AR15-359004	28	27	17	25	28	27	28
AR15-359008	22	24	8	11	22	25	23
AR15-359011	25	20	11	22	25	28	27
AR15-359028	10	13	7	14	7	15	19
AR15-359042	27	28	21	27	27	24	25
DSN11-03004	19	9	10	13	9	23	12
DSN11-03174	8	14	2	7	3	14	14
DSN11-10057	14	4	27	5	13	19	20
DSN11-27183	11	2	13	3	18	7	20
LG13-1952	17	15	19	9	23	13	15
LG13-3578	26	26	23	28	21	22	24
LG13-3594	21	10	22	26	24	16	25
LG13-3614	18	25	15	21	12	20	8
LG13-3975	20	18	9	17	16	26	17
LG14-6165	9	12	14	18	5	4	16
LG14-6166	22	23	18	23	11	18	11
SA13-1310	2	1	5	1	4	3	6
SA13-1363	3	16	4	6	6	5	4
SA13-1385	1	3	16	4	1	6	3
SA13-2047	15	6	24	19	26	21	9
SA13-2126	22	17	12	19	19	1	2
SA13-2489	5	5	3	8	2	11	7
SA13-2699	6	22	20	2	20	2	13
SA13-3135	13	21	26	15	15	9	10

PRELIMINARY TEST IIIA, 2016

YIELD RANK

Strain	Novelty MO	Clay Center NE	Lincoln NE	Wymore NE	Hoyt- ville OH	So Charles- ton OH
IA3023 (III)	20	15	1	1	8	23
IA3048 (SCN)	5	12	13	7	19	17
LD07-3395bf (SCN)	7	9	3	14	10	9
U11-920017	8	1	2	9	22	27
AR15-359004	12	26	28	26	23	25
AR15-359008	21	15	23	18	10	11
AR15-359011	15	20	26	4	14	16
AR15-359028	9	3	4	16	15	19
AR15-359042	17	22	25	25	21	26
DSN11-03004	23	16	18	28	11	15
DSN11-03174	2	12	17	23	18	13
DSN11-10057	4	22	21	19	20	13
DSN11-27183	10	19	10	22	15	20
LG13-1952	22	7	15	20	12	21
LG13-3578	27	28	27	15	3	7
LG13-3594	24	10	16	17	16	12
LG13-3614	25	8	24	27	6	6
LG13-3975	16	24	22	24	13	10
LG14-6165	13	7	12	5	10	22
LG14-6166	28	18	19	6	9	24
SA13-1310	6	5	6	8	1	2
SA13-1363	11	3	9	2	2	4
SA13-1385	1	4	9	3	5	1
SA13-2047	19	17	5	10	4	17
SA13-2126	26	27	14	21	17	28
SA13-2489	14	13	12	11	12	8
SA13-2699	3	25	20	13	7	5
SA13-3135	18	23	7	12	11	3

PRELIMINARY TEST IIIA, 2016

MATURITY (date)

Strain	Mean 11 Tests	Boone County IA	Crawfords- ville IA	Urbana IL	West Lafayette IN	Man- hattan KS	Ottawa KS
IA3023 (III)	9/26	10/9	9/10	9/25	9/25	9/29	9/23
IA3048 (SCN)	-1	-2	-7	1	-3	-5	2
LD07-3395bf (SCN)	1	1	-10	5	0	1	4
U11-920017	-5	-9	0	-4	0	-9	-5
AR15-359004	0	-1	-15	3	9	-1	-1
AR15-359008	-1	-3	-11	2	3	-6	3
AR15-359011	-3	-7	-3	-2	0	-6	-1
AR15-359028	-2	-4	-5	0	2	-5	-2
AR15-359042	-0	-3	-7	2	5	-2	2
DSN11-03004	1	1	-6	3	4	0	4
DSN11-03174	1	1	-10	3	6	1	2
DSN11-10057	-0	-1	-3	1	0	-2	2
DSN11-27183	0	1	-8	3	0	3	2
LG13-1952	0	0	-3	2	7	-2	2
LG13-3578	3	1	-9	6	7	6	7
LG13-3594	2	0	-3	4	3	1	4
LG13-3614	2	2	-10	6	1	5	7
LG13-3975	2	1	-16	10	4	4	6
LG14-6165	-1	-5	-2	1	3	-1	1
LG14-6166	-1	-2	0	-1	2	0	1
SA13-1310	2	2	-13	6	2	2	5
SA13-1363	1	-1	-9	3	3	-1	6
SA13-1385	2	3	-13	9	-3	4	5
SA13-2047	0	0	-3	2	0	0	4
SA13-2126	-0	0	-4	1	1	-1	5
SA13-2489	-1	-1	-9	1	1	-1	3
SA13-2699	3	3	-13	10	0	4	4
SA13-3135	0	-2	-1	3	1	-2	3
Date Planted	5/22	5/15	5/6	5/23	5/22	6/2	6/6
Days to Mature	128	147	127	125	126	119	109

PRELIMINARY TEST IIIA, 2016

MATURITY (date)

Strain	Novelty MO	Clay Center NE	Lincoln NE	Wymore NE	Hoyt- ville OH	So Charles- ton OH
IA3023 (III)	9/22	9/24		10/2	10/9	9/28
IA3048 (SCN)	4	0		-2	0	-2
LD07-3395bf (SCN)	3	2		-1	3	4
U11-920017	-4	-4		-5	-8	-7
AR15-359004	5	2		3	-7	3
AR15-359008	1	0		-1	-3	3
AR15-359011	1	-2		-2	-4	-4
AR15-359028	2	-2		-1	-9	-1
AR15-359042	3	1		-2	-5	4
DSN11-03004	-1	2		1	2	1
DSN11-03174	5	2		0	0	5
DSN11-10057	3	0		0	-3	0
DSN11-27183	2	2		0	-1	2
LG13-1952	-2	0		-3	0	-1
LG13-3578	-1	2		2	2	7
LG13-3594	1	2		0	0	6
LG13-3614	3	4		4	0	5
LG13-3975	7	3		1	0	8
LG14-6165	0	1		-1	-2	-3
LG14-6166	-1	1		-3	-3	-2
SA13-1310	2	3		1	3	9
SA13-1363	4	2		-1	2	4
SA13-1385	7	2		-4	-2	9
SA13-2047	2	1		0	0	-3
SA13-2126	-3	-3		-2	1	1
SA13-2489	2	-1		-4	-2	3
SA13-2699	4	4		2	3	7
SA13-3135	-3	1		0	1	2
Date Planted	5/24	5/20		6/4	5/28	5/17
Days to Mature	121	127		120	134	134

PRELIMINARY TEST IIIA, 2016

LODGING (score)

Strain	Mean 11 Tests	Boone County IA	Crawfords- ville IA	Urbana IL	West Lafayette IN	Man- hattan KS	Ottawa KS
IA3023 (III)	1.8	1.0	2.5	1.3	1.0	2.0	1.5
IA3048 (SCN)	2.3	2.0	4.0	1.5	2.3	3.0	2.5
LD07-3395bf (SCN)	1.9	1.0	3.3	1.5	1.5	2.5	1.0
U11-920017	1.7	1.5	3.0	1.3	2.3	2.0	1.5
AR15-359004	3.4	3.0	3.8	2.0	3.5	3.5	3.5
AR15-359008	2.9	1.5	3.8	2.8	4.0	3.0	3.0
AR15-359011	2.4	2.0	3.3	2.0	3.3	2.5	2.5
AR15-359028	2.6	2.0	3.5	2.0	4.3	3.5	2.5
AR15-359042	3.1	3.5	3.8	1.8	3.3	3.0	3.0
DSN11-03004	2.3	2.5	3.5	2.0	1.3	2.0	2.5
DSN11-03174	1.6	1.0	2.5	1.3	1.5	1.5	1.0
DSN11-10057	1.9	2.0	3.0	1.5	1.0	2.0	1.0
DSN11-27183	1.8	2.0	2.8	1.5	2.0	2.0	2.0
LG13-1952	2.4	2.0	3.0	2.0	4.0	3.0	1.5
LG13-3578	2.4	1.5	2.5	2.5	4.8	2.0	2.0
LG13-3594	2.9	2.5	3.5	2.5	4.8	3.0	2.5
LG13-3614	3.4	4.0	3.8	3.0	4.0	2.5	3.0
LG13-3975	2.8	3.0	3.0	2.5	3.0	2.5	3.0
LG14-6165	2.6	2.5	3.3	2.0	4.8	2.5	3.0
LG14-6166	2.7	2.0	3.8	2.0	3.5	3.5	2.5
SA13-1310	1.9	2.0	2.8	1.3	1.3	1.5	1.5
SA13-1363	2.1	1.0	3.8	1.3	2.5	2.5	1.0
SA13-1385	1.6	2.0	2.5	1.3	1.0	1.5	1.0
SA13-2047	2.8	3.0	3.8	2.3	4.5	3.5	2.5
SA13-2126	1.5	1.0	2.8	1.0	1.3	2.0	1.5
SA13-2489	1.3	1.0	2.5	1.0	1.0	1.0	1.0
SA13-2699	1.7	1.5	2.5	1.5	1.5	2.0	1.0
SA13-3135	1.5	1.5	2.3	1.3	1.0	2.0	1.0

PRELIMINARY TEST IIIA, 2016

LODGING (score)

Strain	Novelty MO	Clay Center NE	Lincoln NE	Wymore NE	Hoyt- ville OH	So Charles- ton OH
IA3023 (III)	2.0	2.0		3.0	1.0	2.3
IA3048 (SCN)	3.0	1.5		2.0	1.0	2.1
LD07-3395bf (SCN)	3.8	2.0		1.0	1.0	2.9
U11-920017	3.0	1.0		1.0	1.0	1.3
AR15-359004	3.8	3.5		5.0	2.0	4.1
AR15-359008	3.8	3.0		2.0	1.0	3.8
AR15-359011	4.0	2.0		2.0	1.0	2.1
AR15-359028	4.3	1.5		1.5	1.0	3.0
AR15-359042	3.3	4.0		4.0	1.0	3.6
DSN11-03004	3.0	2.0		2.5	1.0	3.3
DSN11-03174	3.0	2.0		1.5	1.0	1.6
DSN11-10057	3.5	1.0		2.0	1.0	2.5
DSN11-27183	1.8	1.5		1.0	1.0	2.0
LG13-1952	3.0	2.0		2.5	1.0	2.6
LG13-3578	4.0	2.0		1.5	1.0	2.9
LG13-3594	4.0	2.0		2.0	1.0	4.1
LG13-3614	4.0	4.5		3.0	1.5	4.6
LG13-3975	3.8	2.0		2.5	1.0	4.0
LG14-6165	3.5	1.5		1.0	1.0	3.4
LG14-6166	3.8	1.5		3.0	1.0	3.2
SA13-1310	3.0	2.0		2.0	1.0	2.4
SA13-1363	3.3	1.0		2.5	1.0	2.9
SA13-1385	2.5	1.5		1.0	1.0	2.9
SA13-2047	4.0	1.5		1.0	1.0	4.0
SA13-2126	2.8	1.5		1.0	1.0	1.2
SA13-2489	1.8	1.5		1.0	1.0	2.0
SA13-2699	2.3	1.5		2.0	1.0	2.3
SA13-3135	1.8	2.0		1.0	1.0	2.1

PRELIMINARY TEST IIIA, 2016

PLANT HEIGHT (inches)

Strain	Mean 10 Tests	Boone County IA	Crawfords- ville IA	Urbana IL	West Lafayette IN	Man- hattan KS	Ottawa KS
IA3023 (III)	39	42	43	37	42	42	36
IA3048 (SCN)	40	39	44	37	45	42	40
LD07-3395bf (SCN)	37	38	42	35	39	40	35
U11-920017	36	35	40	37	38	40	36
AR15-359004	51	58	53	56	57	52	48
AR15-359008	42	44	49	42	46	42	41
AR15-359011	41	41	44	39	45	41	43
AR15-359028	39	40	42	38	45	42	38
AR15-359042	45	45	43	48	51	46	47
DSN11-03004	44	45	50	44	46	44	39
DSN11-03174	38	38	45	36	42	42	35
DSN11-10057	40	42	45	39	44	41	36
DSN11-27183	43	44	48	43	47	42	41
LG13-1952	45	46	48	47	51	49	42
LG13-3578	47	47	49	45	51	51	47
LG13-3594	44	47	50	43	51	47	42
LG13-3614	46	48	50	45	51	44	44
LG13-3975	45	46	48	48	49	48	43
LG14-6165	43	43	47	42	52	47	39
LG14-6166	43	45	43	43	49	49	41
SA13-1310	40	41	44	37	43	42	38
SA13-1363	39	39	48	36	42	43	38
SA13-1385	42	42	48	40	46	47	41
SA13-2047	40	40	45	41	45	42	38
SA13-2126	36	33	42	34	39	42	35
SA13-2489	36	40	40	34	38	39	34
SA13-2699	42	43	49	39	48	49	37
SA13-3135	40	39	46	39	45	46	38

PRELIMINARY TEST IIIA, 2016

PLANT HEIGHT (inches)

Strain	Novelty MO	Clay Center NE	Lincoln NE	Wymore NE	Hoyt- ville OH	So Charles- ton OH
IA3023 (III)	39			44	29	36
IA3048 (SCN)	42			45	32	33
LD07-3395bf (SCN)	37			43	28	35
U11-920017	37			42	25	31
AR15-359004	53			53	40	47
AR15-359008	41			45	32	36
AR15-359011	41			46	32	35
AR15-359028	41			45	31	32
AR15-359042	45			54	34	39
DSN11-03004	44			49	36	41
DSN11-03174	40			42	26	34
DSN11-10057	42			45	28	35
DSN11-27183	43			47	34	39
LG13-1952	45			50	34	36
LG13-3578	48			51	38	43
LG13-3594	43			49	34	39
LG13-3614	45			55	39	42
LG13-3975	46			45	37	43
LG14-6165	43			49	32	39
LG14-6166	43			48	31	38
SA13-1310	41			46	32	34
SA13-1363	38			41	31	37
SA13-1385	42			47	32	39
SA13-2047	40			42	32	37
SA13-2126	36			41	28	31
SA13-2489	34			41	28	30
SA13-2699	44			46	31	39
SA13-3135	40			44	30	35

PRELIMINARY TEST IIIA, 2016

SEED SIZE (g/100)

Strain	Mean 11 Tests	Boone County IA	Crawfords- ville IA	Urbana IL	West Lafayette IN	Man- hattan KS	Ottawa KS
IA3023 (III)	15.6	15.8	10.5	15.3	15.5	16.2	18.3
IA3048 (SCN)	15.1	15.0	11.7	15.4	14.8	15.0	16.8
LD07-3395bf (SCN)	15.8	15.1	12.1	15.9	15.5	16.6	17.1
U11-920017	16.8	15.8	12.2	16.3	16.8	17.9	19.3
AR15-359004	15.4	15.3	11.9	15.8	15.0	15.6	17.5
AR15-359008	15.9	15.0	12.9	17.0	17.1	16.4	15.6
AR15-359011	17.6	17.2	13.1	19.1	18.2	17.1	18.2
AR15-359028	15.8	16.0	10.6	15.8	16.6	16.0	15.6
AR15-359042	15.8	15.6	11.4	16.4	15.0	16.6	15.5
DSN11-03004	17.0	17.2	12.3	18.5	17.0	17.4	18.1
DSN11-03174	17.2	15.9	13.3	19.5	18.5	16.0	19.3
DSN11-10057	15.2	15.7	11.1	16.7	14.5	14.8	16.1
DSN11-27183	14.9	14.7	12.2	16.1	14.0	15.6	16.0
LG13-1952	14.9	16.3	8.9	16.5	14.9	16.0	16.0
LG13-3578	17.7	17.9	11.7	18.4	18.1	19.3	20.3
LG13-3594	15.4	15.8	11.2	16.5	15.1	16.8	15.5
LG13-3614	14.6	15.2	10.0	16.0	14.4	15.2	14.9
LG13-3975	17.7	18.5	14.5	20.0	17.7	18.1	17.0
LG14-6165	18.3	18.2	13.6	19.9	17.4	19.2	19.8
LG14-6166	18.0	18.0	12.3	19.9	18.8	19.4	19.4
SA13-1310	15.7	15.1	13.4	16.4	14.6	15.8	15.9
SA13-1363	14.3	13.5	10.7	14.7	13.9	15.0	14.0
SA13-1385	14.5	13.7	10.7	15.9	14.6	14.0	14.7
SA13-2047	13.7	13.8	9.4	14.7	12.3	14.9	15.6
SA13-2126	14.2	14.1	10.4	14.4	13.2	16.0	15.6
SA13-2489	14.2	13.9	11.0	14.3	14.9	13.4	14.9
SA13-2699	15.4	14.6	11.4	17.2	13.9	16.1	16.6
SA13-3135	15.1	14.7	10.2	16.4	14.5	15.5	16.5

PRELIMINARY TEST IIIA, 2016

SEED SIZE (g/100)

Strain	Novelty MO	Clay Center NE	Lincoln NE	Wymore NE	Hoyt- ville OH	So Charles- ton OH
IA3023 (III)	13.2	16.0		17.9	17.3	15.7
IA3048 (SCN)	16.2	14.6		16.0	16.2	14.8
LD07-3395bf (SCN)	17.0	15.3		17.1	16.2	15.5
U11-920017	15.2	17.8		18.4	17.9	17.2
AR15-359004	15.7	14.5		15.9	16.6	15.6
AR15-359008	15.0	16.4		17.7	16.4	15.4
AR15-359011	17.4	18.1		19.2	18.9	17.7
AR15-359028	16.1	16.0		17.1	16.6	17.3
AR15-359042	15.3	18.6		16.4	17.2	15.7
DSN11-03004	14.7	16.9		18.4	19.1	17.8
DSN11-03174	17.7	15.3		17.1	18.8	18.0
DSN11-10057	16.2	14.5		16.6	16.6	14.9
DSN11-27183	15.2	14.7		15.8	16.0	14.1
LG13-1952	13.8	14.9		16.5	15.8	14.1
LG13-3578	14.9	16.9		21.0	18.9	17.5
LG13-3594	14.4	15.3		17.0	16.3	16.0
LG13-3614	12.7	16.2		15.9	15.9	14.3
LG13-3975	16.9	17.9		18.5	18.2	17.9
LG14-6165	17.9	18.3		19.0	19.2	18.8
LG14-6166	16.5	18.0		20.0	18.1	17.8
SA13-1310	15.9	15.3		16.7	17.6	16.6
SA13-1363	13.8	14.2		15.8	16.3	15.1
SA13-1385	15.2	14.3		15.6	16.1	15.0
SA13-2047	12.7	13.9		16.4	14.2	13.0
SA13-2126	13.2	13.7		16.5	16.3	13.4
SA13-2489	13.9	14.6		15.7	14.9	14.4
SA13-2699	15.5	15.6		16.7	15.9	16.0
SA13-3135	13.9	14.4		17.1	17.3	15.3

PRELIMINARY TEST IIIA, 2016

SEED QUALITY (score)

Strain	Mean 11 Tests	Boone County IA	Crawfords- ville IA	Urbana IL	West Lafayette IN	Man- hattan KS	Ottawa KS
IA3023 (III)	1.7	2.0	2.0	2.0	1.0	3.0	2.0
IA3048 (SCN)	1.7	2.0	2.0	2.0	1.0	3.0	2.0
LD07-3395bf (SCN)	1.8	2.0	2.0	2.0	1.5	2.0	3.0
U11-920017	1.9	2.0	2.0	2.0	2.0	3.0	4.0
AR15-359004	1.9	2.0	2.0	2.0	2.0	3.0	3.0
AR15-359008	1.9	1.5	2.0	2.0	2.0	3.0	3.0
AR15-359011	2.1	2.0	2.0	3.0	1.5	3.0	3.0
AR15-359028	1.7	1.5	2.0	2.0	1.0	2.0	3.0
AR15-359042	2.0	2.0	2.0	2.0	1.5	3.0	3.0
DSN11-03004	1.5	2.0	2.0	2.0	1.0	2.0	2.0
DSN11-03174	1.5	2.0	1.0	2.0	1.0	3.0	2.0
DSN11-10057	1.8	1.5	2.0	1.0	1.5	3.0	3.0
DSN11-27183	1.4	2.0	1.0	2.0	1.0	2.0	2.0
LG13-1952	2.2	2.0	3.0	2.0	1.0	4.0	3.0
LG13-3578	1.9	2.0	2.0	2.0	2.0	3.0	2.0
LG13-3594	2.0	1.5	2.0	2.0	1.5	3.0	3.0
LG13-3614	2.0	2.0	2.0	2.0	1.5	3.0	2.0
LG13-3975	1.9	2.0	3.0	2.0	1.5	3.0	2.0
LG14-6165	2.1	2.0	3.0	2.0	1.0	3.0	3.0
LG14-6166	2.0	1.5	2.0	2.0	1.0	3.0	2.0
SA13-1310	1.9	1.5	2.0	2.0	1.0	3.0	3.0
SA13-1363	1.6	2.0	1.0	2.0	1.0	2.0	2.0
SA13-1385	1.9	2.0	3.0	2.0	1.0	2.0	3.0
SA13-2047	1.9	2.0	2.0	2.0	1.0	3.0	3.0
SA13-2126	2.0	2.0	2.0	2.0	1.0	3.0	2.0
SA13-2489	1.6	2.0	2.0	1.0	1.0	3.0	2.0
SA13-2699	1.7	2.0	2.0	2.0	1.0	3.0	2.0
SA13-3135	1.6	2.0	2.0	2.0	1.0	2.0	3.0

PRELIMINARY TEST IIIA, 2016

SEED QUALITY (score)

Strain	Novelty MO	Clay Center NE	Lincoln NE	Wymore NE	Hoyt- ville OH	So Charles- ton OH
IA3023 (III)	2.0	2.0		1.0	1.0	1.2
IA3048 (SCN)	1.5	2.0		1.0	1.0	1.4
LD07-3395bf (SCN)	1.5	2.0		1.0	1.0	1.4
U11-920017	2.0	1.0		1.0	1.0	0.9
AR15-359004	2.0	1.0		1.0	1.0	2.1
AR15-359008	2.0	1.0		1.0	1.0	2.0
AR15-359011	3.0	1.0		1.0	1.0	2.1
AR15-359028	2.5	1.0		1.0	1.0	1.9
AR15-359042	2.0	1.0		1.0	1.0	3.1
DSN11-03004	2.0	1.0		1.0	1.0	0.9
DSN11-03174	1.8	1.0		1.0	1.0	1.1
DSN11-10057	2.0	1.0		1.0	1.0	2.5
DSN11-27183	2.0	1.0		1.0	1.0	0.9
LG13-1952	2.3	2.0		1.0	1.0	2.5
LG13-3578	2.0	1.0		2.0	1.0	1.9
LG13-3594	1.8	1.0		2.0	1.0	3.1
LG13-3614	2.5	2.0		2.0	1.0	2.0
LG13-3975	2.0	1.0		1.0	1.0	2.5
LG14-6165	2.3	2.0		2.0	1.0	1.5
LG14-6166	3.0	2.0		2.0	1.0	2.1
SA13-1310	1.3	2.0		2.0	1.0	1.6
SA13-1363	2.0	1.0		2.0	1.0	1.4
SA13-1385	2.0	1.0		2.0	1.0	1.4
SA13-2047	2.0	1.0		2.0	1.0	1.5
SA13-2126	3.0	2.0		2.0	2.0	1.4
SA13-2489	1.5	1.0		2.0	1.0	1.1
SA13-2699	1.3	1.0		2.0	1.0	1.0
SA13-3135	1.5	1.0		1.0	1.0	1.5

PRELIMINARY TEST IIIA, 2016

PROTEIN (%)

Strain	Mean 5 Tests	Urbana IL	West Lafayette IN	Clay Center NE	Wymore NE	Hoytville OH
IA3023 (III)	33.1	32.1	33.2	32.8	33.9	33.7
IA3048 (SCN)	34.7	34.9	35.9	33.8	34.7	34.3
LD07-3395bf (SCN)	32.4	32.7	33.2	32.3	32.6	31.1
U11-920017	32.3	31.1	33.2	32.1	32.3	33.0
AR15-359004	35.2	35.9	35.8	35.7	35.0	33.7
AR15-359008	35.1	35.8	35.9	35.2	35.0	33.8
AR15-359011	35.1	35.8	35.3	34.6	35.2	34.7
AR15-359028	34.7	34.9	35.2	34.1	35.3	33.9
AR15-359042	35.2	35.7	35.5	34.8	34.9	35.0
DSN11-03004	35.1	36.0	35.3	34.6	34.8	34.9
DSN11-03174	33.5	34.0	33.8	33.6	33.3	32.6
DSN11-10057	33.2	32.9	33.3	33.4	33.2	33.1
DSN11-27183	33.1	33.2	33.4	33.5	33.5	31.8
LG13-1952	34.5	34.9	35.7	34.3	34.4	33.2
LG13-3578	33.7	34.9	34.1	33.4	33.5	32.8
LG13-3594	34.6	35.2	35.7	33.9	34.8	33.2
LG13-3614	35.9	36.7	36.3	35.7	36.3	34.3
LG13-3975	35.4	36.2	35.8	35.3	35.5	34.4
LG14-6165	34.8	34.6	35.6	34.4	35.2	34.5
LG14-6166	35.3	35.5	36.3	35.5	35.7	33.6
SA13-1310	34.0	35.0	33.9	33.8	34.5	32.5
SA13-1363	33.7	33.6	34.5	33.5	33.6	33.0
SA13-1385	33.2	33.4	32.8	33.5	33.5	32.9
SA13-2047	33.9	34.2	35.0	33.6	33.4	33.2
SA13-2126	33.5	32.8	34.2	33.3	33.9	33.4
SA13-2489	31.9	31.5	32.2	32.3	32.5	31.3
SA13-2699	34.7	35.7	35.1	34.3	34.9	33.5
SA13-3135	33.9	33.7	34.0	34.3	33.9	33.5

PRELIMINARY TEST IIIA, 2016

OIL (%)

Strain	Mean 5 Tests	Urbana IL	West Lafayette IN	Clay Center NE	Wymore NE	Hoytville OH
IA3023 (III)	19.8	20.6	20.6	19.2	18.8	19.8
IA3048 (SCN)	19.1	19.5	19.5	18.5	18.4	19.7
LD07-3395bf (SCN)	20.4	20.7	20.6	19.5	19.8	21.2
U11-920017	20.7	21.7	21.2	19.7	19.9	21.0
AR15-359004	19.1	19.2	19.2	17.9	18.9	20.1
AR15-359008	19.5	19.6	20.2	18.5	19.3	20.2
AR15-359011	19.2	19.5	19.8	18.4	18.8	19.6
AR15-359028	19.9	20.4	20.6	19.2	18.7	20.6
AR15-359042	18.5	18.6	18.6	17.6	18.2	19.2
DSN11-03004	19.2	19.7	19.7	18.3	18.8	19.5
DSN11-03174	19.4	20.0	19.9	17.7	18.8	20.4
DSN11-10057	19.2	19.6	19.7	18.0	18.7	19.7
DSN11-27183	19.9	20.4	20.1	18.8	19.3	20.8
LG13-1952	19.3	19.8	19.6	18.3	19.1	19.9
LG13-3578	19.5	19.6	20.0	18.7	19.5	19.8
LG13-3594	19.3	19.7	19.5	18.3	18.8	19.9
LG13-3614	18.8	19.2	18.9	18.1	18.5	19.3
LG13-3975	18.9	19.4	19.4	18.0	18.8	19.2
LG14-6165	19.4	20.4	19.7	18.6	18.6	19.7
LG14-6166	18.7	19.3	19.1	17.7	17.9	19.7
SA13-1310	19.8	20.1	20.3	19.0	19.0	20.5
SA13-1363	19.7	20.4	20.0	18.8	19.0	20.1
SA13-1385	19.5	19.9	20.2	18.6	19.0	19.6
SA13-2047	18.9	19.5	19.1	18.2	18.9	19.1
SA13-2126	19.5	20.4	19.6	18.8	18.9	20.0
SA13-2489	19.9	20.4	20.3	19.1	19.1	20.5
SA13-2699	18.7	18.7	18.9	18.1	18.1	19.6
SA13-3135	19.3	20.1	19.8	17.8	18.9	19.8

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PRELIMINARY TEST IIIB, 2016

Ent.	Strain	Parentage	Seed Source	Gen. Comp.	Unique Traits
1	IA3023 (III)	Dairyland DSR-365 x Pioneer P9381	Fehr	F5	
2	IA3048 (SCN)	Dairyland 99540 x IA2068	Fehr	F4	SCN
3	LD07-3395bf (SCN)	LD07-3395 Reselection	Diers	F5	SCN
4	U11-920017	HS5-3417 x LD02- 4485	Graef	F6	Rps Resis.
5	HM12-W060		McHale	F4	
6	HM13-R084		McHale	F4	
7	HM13-W040		McHale	F5	
8	HM13-W073		McHale	F4	
9	HM13-W091		McHale	F4	
10	HM14-C055		McHale	F4	
11	HR13-102381	OHS204 x OAC Champion	Mian	F5	Genetic Diversity
12	HR13-102735	OHS305 x DH 420	Mian	F5	Genetic Diversity
13	LD13-759	LD05-1540 x Dairyland 75334	Diers	F5	
14	LD13-767	LD05-1540 x Dairyland 75334	Diers	F5	
15	U13-215422	U09-312115 x U03-260216	Graef	F5	Rps1K, Rps,
16	U13-220427	U07-402918 x U09-233044	Graef	F5	Dt, TF, BPMV, UP2YC4S3
17	U13-229443	U09-311114 x U09-323109	Graef	F5	Rps1K, Rps, UP2YC4S3
18	U13-231286	LD04-13265 x UX2759-1 (F1)	Graef	F5	SCN(HR, LR), Rps, Dt
19	U13-233294	U09-311114 x LD04-13265	Graef	F5	Rps1K, Rps, SCN, YLD
20	U13-233425	U09-311114 x U10-425065	Graef	F5	Rps1K, Rps, SCN(LR, NR)
21	U13-235283	U09-311114 x LD04-13265	Graef	F5	Rps1K, Rps, SCN, YLD
22	U13-329025	U09-311114 x LD04-13265	Graef	F5	Rps1K, Rps, SCN, YLD
23	U14-605217	U09-215057 x LD07-3419	Graef	F5	Rps, Dt, SCN
24	U14-608170	U09-215057 x LD07-3419	Graef	F5	Rps, Dt, SCN
25	U14-615073	U09-234083 x U09-311114	Graef	F6	UP2YC4S3, Rps1K, Rps
26	U14-902082	U09-105007 x CL05-32415	Graef	F5	Rps, SCN, Rps3a
27	U14-912075	U09-105007 x LD07-3419	Graef	F5	Rps, SCN
28	U14-924158	U11-935093 x LD07-3419	Graef	F5	IDC, SCN
29	U14-926130	U11-935093 x LD07-3419	Graef	F5	IDC, SCN

PRELIMINARY TEST IIIB, 2016

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	Shattering	Green Stem
		Score Man- hattan	Score So Charleston
IA3023 (III)	WGBIYDibI	3.0	1.5
IA3048 (SCN)	WGTSYYI	2.0	1.0
LD07-3395bf (SCN)	WGTSYBfi	1.0	3.5
U11-920017	WGBIYBfi	2.0	1.0
HM12-W060	WGTSYBfi	2.0	1.0
HM13-R084	PGTSYDibI	1.0	1.0
HM13-W040	WT+GBIYDibI	2.0	1.5
HM13-W073	P+WGTSYDibI	1.0	1.0
HM13-W091	WGTSYDibI	1.0	1.5
HM14-C055	WGTSYDibI	1.0	2.0
HR13-102381	P+WTBSYG+Br+BI	1.0	1.5
HR13-102735	PGTSYBfi	2.0	1.0
LD13-759	WTBSYDbrI	1.0	1.0
LD13-767	WTBSYBI	1.0	1.0
U13-215422	PGTSYDbfi	1.0	1.0
U13-220427	WGTSYBf+DibI	1.0	1.0
U13-229443	PGTSYBI	2.0	1.0
U13-231286	PGBTYBI	1.0	3.0
U13-233294	WGBSYDibI	1.0	1.0
U13-233425	P+WGTDYBfi	3.0	1.0
U13-235283	WGBIYBI	1.0	2.5
U13-329025	PGBSYDibI	1.0	2.0
U14-605217	WGTDYBfi	1.0	3.0
U14-608170	WGTIYLbfi	2.0	1.5
U14-615073	WGBSYDibI	2.0	2.0
U14-902082	WGBSYBI	1.0	1.5
U14-912075	PGTSYBfi	1.0	1.0
U14-924158	PGTSYBI	1.0	1.0
U14-926130	PGTIYDibI	1.0	1.0

PRELIMINARY TEST IIIB, 2016

REGIONAL SUMMARY

No. of Tests Strain	Yield 12 bu/a	Rank 12 No.	Maturity 11 Date	Lodging 11 Score	Plant Height 10 In.	Seed Size 11 g/100	Seed Quality 11 Score	Composition	
								Protein 5 %	Oil 5 %
IA3023 (III)	66.8	8	9/26	1.8	40	15.7	1.5	33.3	19.8
IA3048 (SCN)	67.5	6	0.4	2.5	39	14.9	1.6	34.6	19.2
LD07-3395bf (SCN)	70.3	2	2.4	2.2	37	15.8	2.0	33.0	20.1
U11-920017	65.7	13	-4.0	1.9	36	16.7	2.1	32.6	20.5
HM12-W060	63.4	21	-0.8	2.9	42	15.9	1.6	34.8	19.6
HM13-R084	64.4	18	-2.4	2.3	39	15.1	1.7	34.3	20.0
HM13-W040	59.9	27	1.6	2.4	38	17.1	1.8	35.3	19.2
HM13-W073	63.1	22	-2.0	2.0	36	15.2	1.9	35.0	19.6
HM13-W091	62.9	23	-2.2	1.8	38	15.6	1.7	36.3	18.4
HM14-C055	60.1	26	0.9	2.0	41	15.3	1.8	35.9	18.8
HR13-102381	59.4	28	-0.1	2.3	41	17.7	2.2	35.3	19.3
HR13-102735	57.2	29	-0.5	2.1	41	16.5	2.0	36.7	18.5
LD13-759	62.9	23	-0.6	2.5	42	15.1	1.8	34.2	20.0
LD13-767	63.5	20	-1.1	2.4	41	16.5	1.8	34.3	20.2
U13-215422	63.6	19	0.4	2.6	41	13.8	1.9	33.7	20.5
U13-220427	61.7	25	-2.4	1.7	38	16.0	1.7	34.5	19.8
U13-229443	65.8	12	0.5	1.9	42	15.5	1.9	33.2	20.4
U13-231286	67.9	4	2.7	1.5	37	14.5	2.0	34.3	19.4
U13-233294	66.6	10	0.2	1.8	41	16.6	2.0	34.2	19.8
U13-233425	64.8	16	-0.5	1.7	42	15.4	2.0	34.3	19.5
U13-235283	65.2	14	0.8	2.2	43	14.7	2.0	32.8	20.0
U13-329025	66.8	8	3.4	2.5	43	15.5	1.8	33.9	19.7
U14-605217	70.2	3	1.4	2.0	40	16.4	1.8	33.1	20.1
U14-608170	66.1	11	0.5	2.3	39	14.6	1.9	32.9	19.7
U14-615073	65.2	14	2.0	1.8	44	16.4	2.1	33.5	20.0
U14-902082	67.6	5	-0.2	1.7	43	13.6	1.7	32.9	19.3
U14-912075	64.5	17	-0.2	1.4	35	15.2	1.7	33.6	20.0
U14-924158	71.7	1	-1.5	1.3	37	14.3	2.0	32.0	20.4
U14-926130	67.4	7	-1.5	1.6	36	13.1	1.6	33.9	19.6
Mean	64.9			2.0	39.7	15.8	1.8		
C.V. (%)	10.7			34.7	6.0	5.3	21.5		
L.S.D. (5%)	3.9			0.4	1.5	0.7	0.3		

127.2 Days After Planting

PRELIMINARY TEST IIIB, 2016

YIELD (bu/a)

Strain	Mean 12 Tests	Boone County IA	Crawfords- ville IA	Urbana IL	West Lafayette IN	Man- hattan KS	Ottawa KS
IA3023 (III)	66.8	62.8	63.3	60.6	61.2	69.2	70.8
IA3048 (SCN)	67.5	64.6	63.5	63.1	66.4	61.0	67.2
LD07-3395bf (SCN)	70.3	58.4	65.2	64.8	69.0	72.3	77.2
U11-920017	65.7	54.7	73.1	64.1	65.3	63.6	66.6
HM12-W060	63.4	56.9	54.2	64.3	64.5	58.3	65.6
HM13-R084	64.4	51.0	62.1	62.1	67.4	65.0	63.9
HM13-W040	59.9	50.7	47.3	57.4	57.8	56.4	64.0
HM13-W073	63.1	50.1	63.3	65.5	61.6	50.0	69.5
HM13-W091	62.9	52.7	53.4	70.2	64.2	61.8	65.7
HM14-C055	60.1	47.4	47.8	62.0	64.5	58.9	62.5
HR13-102381	59.4	40.6	60.2	61.1	60.6	56.4	58.6
HR13-102735	57.2	49.5	43.9	61.3	56.2	58.4	67.1
LD13-759	62.9	52.4	59.7	64.7	65.6	58.8	64.9
LD13-767	63.5	57.9	56.8	59.6	60.7	65.3	66.8
U13-215422	63.6	64.9	45.3	64.5	60.5	62.6	71.0
U13-220427	61.7	56.9	51.7	66.2	65.9	57.0	64.0
U13-229443	65.8	57.2	65.4	69.5	68.3	63.5	72.6
U13-231286	67.9	48.9	54.4	71.2	67.5	74.2	75.3
U13-233294	66.6	59.6	60.0	63.2	66.7	65.4	66.8
U13-233425	64.8	55.4	53.6	63.7	61.4	62.8	64.9
U13-235283	65.2	54.3	50.1	68.5	64.0	69.1	70.0
U13-329025	66.8	56.1	40.1	67.7	59.7	73.5	72.6
U14-605217	70.2	58.6	59.3	74.5	71.0	67.9	76.4
U14-608170	66.1	58.2	51.5	71.4	61.8	74.5	73.7
U14-615073	65.2	52.3	61.6	71.5	70.4	63.9	68.9
U14-902082	67.6	64.1	65.1	63.4	69.8	61.5	62.9
U14-912075	64.5	48.5	58.0	64.3	62.7	69.4	79.1
U14-924158	71.7	63.9	65.5	73.7	72.1	70.5	77.6
U14-926130	67.4	61.5	53.0	67.5	59.9	65.4	69.8
Location Mean		55.5	56.8	65.6	64.4	64.0	68.8
C.V. (%)		9.8	14.4	6.4	6.5	6.6	3.7
L.S.D. (5%)		11.1	16.8	8.6	8.6	8.7	5.3
Row Sp. (In.)		30	30	30	30	30	30
Rows/Plot		4	4	4	4	4	4
Reps		2	2	2	2	2	2

PRELIMINARY TEST IIIB, 2016

YIELD (bu/a)

Strain	Novelty MO	Clay Center NE	Lincoln NE	Wymore NE	Hoyt- ville OH	So Charles- ton OH
IA3023 (III)	59.8	84.6	63.6	82.8	68.9	54.4
IA3048 (SCN)	74.0	80.4	58.9	65.8	76.6	68.1
LD07-3395bf (SCN)	70.5	89.3	68.1	76.2	70.8	61.6
U11-920017	60.6	85.8	63.8	80.1	62.1	48.3
HM12-W060	60.9	85.6	57.5	71.6	71.9	49.6
HM13-R084	57.5	93.2	51.5	74.6	70.1	54.0
HM13-W040	47.0	81.4	54.1	71.6	71.8	58.8
HM13-W073	53.1	82.3	62.4	74.9	71.4	53.4
HM13-W091	41.8	85.0	61.9	72.6	76.0	49.9
HM14-C055	46.8	78.3	57.4	67.2	72.5	55.6
HR13-102381	43.9	73.9	57.2	74.9	71.6	53.5
HR13-102735	33.8	79.6	54.7	68.9	73.4	40.1
LD13-759	36.7	83.5	63.0	81.2	70.5	53.2
LD13-767	62.1	78.6	45.1	81.5	66.3	61.3
U13-215422	54.4	83.6	52.8	77.0	80.1	46.6
U13-220427	49.5	80.5	54.8	71.1	64.6	58.5
U13-229443	55.4	80.4	57.8	74.6	77.2	47.7
U13-231286	50.4	80.5	63.6	75.3	84.6	69.5
U13-233294	69.4	84.7	59.1	74.0	71.0	59.6
U13-233425	63.1	80.8	64.8	78.3	73.6	55.1
U13-235283	37.1	81.1	69.7	77.8	80.6	60.0
U13-329025	56.1	87.7	70.5	79.7	77.8	60.6
U14-605217	58.6	89.6	59.0	77.6	86.2	63.7
U14-608170	37.0	88.4	66.6	73.4	88.2	48.7
U14-615073	43.9	82.2	60.6	83.6	71.8	52.2
U14-902082	65.4	78.9	60.1	85.1	75.2	59.4
U14-912075	44.2	87.3	57.1	80.8	75.0	47.2
U14-924158	75.2	88.1	68.5	83.2	63.3	59.3
U14-926130	72.7	83.4	70.1	73.7	81.2	50.3
Location Mean	54.5	83.4	60.5	76.2	73.9	55.2
C.V. (%)	9.4	6.3	10.5	6.2	9.1	12.4
L.S.D. (5%)	10.6	12.9	15.6	11.5	13.8	14.3
Row Sp. (In.)	30	30	30	30	7.5	15
Rows/Plot	4	4	4	4	8	6
Reps	2	2	2	2	2	2

PRELIMINARY TEST IIIB, 2016

YIELD RANK

Strain	Yield Rank	Boone County IA	Crawfordsville IA	Urbana IL	West Lafayette IN	Manhattan KS	Ottawa KS
IA3023 (III)	8	5	7	27	22	7	10
IA3048 (SCN)	6	2	6	22	10	21	15
LD07-3395bf (SCN)	2	9	4	13	5	4	3
U11-920017	13	17	1	18	13	15	19
HM12-W060	21	13	18	16	14	25	21
HM13-R084	18	22	9	23	8	13	26
HM13-W040	27	23	26	29	28	27	24
HM13-W073	22	24	8	12	20	29	13
HM13-W091	23	19	20	6	16	19	20
HM14-C055	26	28	25	24	14	22	28
HR13-102381	28	29	11	26	24	27	29
HR13-102735	29	25	28	25	29	24	16
LD13-759	23	20	13	14	12	23	22
LD13-767	20	11	16	28	23	12	17
U13-215422	19	1	27	15	25	18	9
U13-220427	25	14	22	11	11	26	24
U13-229443	12	12	3	7	6	16	7
U13-231286	4	26	17	5	7	2	5
U13-233294	10	7	12	21	9	10	17
U13-233425	16	16	19	19	21	17	22
U13-235283	14	18	24	8	17	8	11
U13-329025	8	15	29	9	27	3	7
U14-605217	3	8	14	1	2	9	4
U14-608170	11	10	23	4	19	1	6
U14-615073	14	21	10	3	3	14	14
U14-902082	5	3	5	20	4	20	27
U14-912075	17	27	15	16	18	6	1
U14-924158	1	4	2	2	1	5	2
U14-926130	7	6	21	10	26	10	12

PRELIMINARY TEST IIIB, 2016

YIELD RANK

Strain	Novelty MO	Clay Center NE	Lincoln NE	Wymore NE	Hoyt- ville OH	So Charles- ton OH
IA3023 (III)	11	12	10	4	24	15
IA3048 (SCN)	2	24	18	29	9	2
LD07-3395bf (SCN)	4	3	5	14	21	4
U11-920017	10	8	8	8	28	25
HM12-W060	9	9	20	25	16	23
HM13-R084	13	1	28	19	23	16
HM13-W040	20	18	26	25	17	11
HM13-W073	17	16	12	17	19	18
HM13-W091	25	10	13	23	10	22
HM14-C055	21	28	21	28	15	13
HR13-102381	23	29	22	17	18	17
HR13-102735	29	25	25	27	14	29
LD13-759	28	14	11	6	22	19
LD13-767	8	27	29	5	25	5
U13-215422	16	13	27	13	6	28
U13-220427	19	22	24	26	26	12
U13-229443	15	24	19	19	8	26
U13-231286	18	22	10	15	3	1
U13-233294	5	11	16	20	20	8
U13-233425	7	20	7	10	13	14
U13-235283	26	19	3	11	5	7
U13-329025	14	6	1	9	7	6
U14-605217	12	2	17	12	2	3
U14-608170	27	4	6	22	1	24
U14-615073	24	17	14	2	17	20
U14-902082	6	26	15	1	11	9
U14-912075	22	7	23	7	12	27
U14-924158	1	5	4	3	27	10
U14-926130	3	15	2	21	4	21

PRELIMINARY TEST IIIB, 2016

MATURITY (date)

Strain	Mean 11 Tests	Boone County IA	Crawfords- ville IA	Urbana IL	West Lafayette IN	Man- hattan KS	Ottawa KS
IA3023 (III)	9/26	10/4	9/19	9/26	9/22	9/28	9/23
IA3048 (SCN)	0	-1	2	0	1	-2	2
LD07-3395bf (SCN)	2	1	-4	4	5	-4	4
U11-920017	-4	-5	7	-6	3	-7	-6
HM12-W060	-1	-4	4	-1	1	-3	3
HM13-R084	-2	-4	5	-4	1	-6	-2
HM13-W040	2	-1	-6	4	3	1	2
HM13-W073	-2	-4	1	-4	1	-5	-2
HM13-W091	-2	-5	3	-2	1	-4	-3
HM14-C055	1	-2	3	0	2	-1	2
HR13-102381	-0	-2	-1	1	3	-1	1
HR13-102735	-1	-4	2	-1	1	-1	4
LD13-759	-1	-3	2	-1	3	4	1
LD13-767	-1	-3	6	-3	3	-4	-1
U13-215422	0	0	8	0	2	0	1
U13-220427	-2	-4	7	-4	2	-7	-3
U13-229443	0	-2	2	2	4	-2	4
U13-231286	3	-1	-1	5	3	4	4
U13-233294	0	-4	4	-2	4	2	1
U13-233425	-1	-3	6	-4	3	-1	-2
U13-235283	1	-1	3	0	1	3	3
U13-329025	3	3	5	5	5	3	6
U14-605217	1	1	3	2	3	-2	3
U14-608170	1	1	7	1	1	-6	4
U14-615073	2	-1	-2	3	4	4	4
U14-902082	-0	-2	1	-2	2	-1	-1
U14-912075	-0	-4	5	0	0	-1	3
U14-924158	-2	-4	5	-2	0	-4	-1
U14-926130	-2	-4	12	-4	1	-5	-1
Date Planted	5/22	5/15	5/6	5/23	5/22	6/2	6/6
Days to Mature	127	142	136	126	123	118	109

PRELIMINARY TEST IIIB, 2016

MATURITY (date)

Strain	Novelty MO	Clay Center NE	Lincoln NE	Wymore NE	Hoyt- ville OH	So Charles- ton OH
IA3023 (III)	9/23	9/26		10/1	10/5	9/24
IA3048 (SCN)	1	-3		1	2	3
LD07-3395bf (SCN)	1	2		1	7	9
U11-920017	-6	-6		-4	-8	-7
HM12-W060	-3	-3		2	-2	-3
HM13-R084	-5	-4		-3	-5	0
HM13-W040	2	-2		2	6	6
HM13-W073	-3	-4		-2	1	-1
HM13-W091	-4	-6		-1	-4	0
HM14-C055	-2	-1		1	4	4
HR13-102381	-3	-2		0	2	1
HR13-102735	-3	0		1	2	-6
LD13-759	-6	-1		-1	0	-4
LD13-767	-4	-4		-1	-1	-1
U13-215422	-4	-2		-1	-1	1
U13-220427	-6	-6		0	-5	-1
U13-229443	-4	-2		-1	2	2
U13-231286	-1	1		3	5	8
U13-233294	1	-3		0	1	0
U13-233425	-3	-3		0	2	-1
U13-235283	-5	-1		0	2	3
U13-329025	-3	1		2	5	6
U14-605217	-2	-1		0	4	5
U14-608170	-5	0		0	1	3
U14-615073	-3	0		1	4	8
U14-902082	1	-2		-2	1	3
U14-912075	-4	-2		-2	4	-1
U14-924158	-3	-5		-4	0	1
U14-926130	-4	-4		-5	-2	-1
Date Planted	5/24	5/20		6/4	5/28	5/17
Days to Mature	122	129		119	130	130

PRELIMINARY TEST IIIB, 2016

LODGING (score)

Strain	Mean 11 Tests	Boone County IA	Crawfords- ville IA	Urbana IL	West Lafayette IN	Man- hattan KS	Ottawa KS
IA3023 (III)	1.8	1.0	3.0	1.0	2.3	2.5	1.0
IA3048 (SCN)	2.5	1.0	3.5	1.0	2.3	3.0	2.5
LD07-3395bf (SCN)	2.2	1.0	3.8	1.3	3.8	2.5	2.5
U11-920017	1.9	1.0	3.0	1.3	4.8	2.5	1.0
HM12-W060	2.9	1.0	4.3	1.8	3.3	3.0	3.5
HM13-R084	2.3	1.0	3.8	1.5	2.5	3.0	3.0
HM13-W040	2.4	1.0	3.5	2.3	4.5	2.5	1.0
HM13-W073	2.0	1.0	3.5	1.5	3.5	1.5	1.0
HM13-W091	1.8	1.0	3.0	1.5	4.0	2.0	1.0
HM14-C055	2.0	1.0	3.3	1.8	2.8	3.0	1.5
HR13-102381	2.3	1.0	4.0	1.8	2.8	3.0	3.0
HR13-102735	2.1	1.0	3.0	1.8	3.8	3.5	1.0
LD13-759	2.5	1.0	4.3	2.5	3.3	2.0	3.5
LD13-767	2.4	1.0	3.5	1.8	3.5	2.5	3.0
U13-215422	2.6	1.5	3.3	1.8	5.0	3.5	2.5
U13-220427	1.7	1.0	3.0	1.3	3.0	1.5	1.0
U13-229443	1.9	1.0	2.8	2.0	3.0	1.5	2.0
U13-231286	1.5	1.0	2.5	1.0	1.3	1.5	1.0
U13-233294	1.8	1.0	2.8	1.0	3.3	2.5	1.0
U13-233425	1.7	1.0	2.8	1.0	4.0	1.5	1.0
U13-235283	2.2	1.0	3.3	1.8	4.0	2.0	2.5
U13-329025	2.5	1.0	3.5	2.0	4.0	2.0	2.0
U14-605217	2.0	1.0	3.0	1.5	4.0	2.0	1.5
U14-608170	2.3	1.0	3.3	2.0	4.3	2.5	2.5
U14-615073	1.8	1.0	2.5	1.8	2.3	1.5	1.0
U14-902082	1.7	1.0	3.0	1.3	1.5	2.5	1.0
U14-912075	1.4	1.0	2.8	1.5	1.5	1.0	1.0
U14-924158	1.3	1.0	2.3	1.0	1.0	1.5	1.0
U14-926130	1.6	1.0	3.3	1.3	1.3	2.5	1.0

PRELIMINARY TEST IIIB, 2016

LODGING (score)

Strain	Novelty MO	Clay Center NE	Lincoln NE	Wymore NE	Hoyt- ville OH	So Charles- ton OH
IA3023 (III)	2.5	2.0		2.0	1.0	2.0
IA3048 (SCN)	3.3	2.5		4.5	1.0	2.5
LD07-3395bf (SCN)	3.8	2.0		1.0	1.0	2.0
U11-920017	2.5	1.0		1.0	1.0	2.0
HM12-W060	3.5	2.0		4.5	1.0	4.5
HM13-R084	3.3	2.0		2.0	1.0	2.5
HM13-W040	2.8	2.0		2.0	1.0	4.0
HM13-W073	3.0	1.5		3.0	1.0	2.0
HM13-W091	2.3	1.0		1.0	1.0	1.5
HM14-C055	2.8	2.0		1.0	1.0	2.0
HR13-102381	3.3	1.5		2.0	1.0	2.5
HR13-102735	2.8	1.5		1.0	1.0	2.5
LD13-759	3.3	2.0		1.0	1.0	4.0
LD13-767	4.0	1.5		3.0	1.0	2.0
U13-215422	3.3	1.0		2.5	1.0	3.5
U13-220427	2.5	1.0		1.0	1.0	2.0
U13-229443	2.5	2.0		1.0	1.0	2.0
U13-231286	2.5	1.5		2.0	1.0	1.5
U13-233294	3.5	1.5		1.0	1.0	1.0
U13-233425	3.0	1.0		1.0	1.0	1.5
U13-235283	2.3	2.0		1.0	1.0	3.0
U13-329025	3.3	2.5		3.5	1.0	3.0
U14-605217	2.5	1.5		2.0	1.0	2.0
U14-608170	3.3	1.5		1.0	1.0	2.5
U14-615073	2.3	2.0		1.0	1.0	3.0
U14-902082	3.0	1.5		1.0	1.0	2.0
U14-912075	2.3	1.0		1.0	1.0	1.0
U14-924158	2.5	1.0		1.0	1.0	1.0
U14-926130	3.0	1.0		1.0	1.0	1.5

PRELIMINARY TEST IIIB, 2016

PLANT HEIGHT (inches)

Strain	Mean 10 Tests	Boone County IA	Crawfords- ville IA	Urbana IL	West Lafayette IN	Man- hattan KS	Ottawa KS
IA3023 (III)	40	39	48	39	47	45	36
IA3048 (SCN)	39	37	43	35	46	44	41
LD07-3395bf (SCN)	37	35	42	34	42	38	35
U11-920017	36	31	41	35	44	40	34
HM12-W060	42	40	48	40	45	44	44
HM13-R084	39	39	43	40	46	43	37
HM13-W040	38	36	44	38	45	42	37
HM13-W073	36	34	41	35	43	37	35
HM13-W091	38	38	41	36	45	40	35
HM14-C055	41	36	44	41	47	45	40
HR13-102381	41	39	45	37	47	46	41
HR13-102735	41	36	45	40	50	46	42
LD13-759	42	38	45	44	51	47	39
LD13-767	41	39	43	42	50	43	41
U13-215422	41	36	44	40	48	47	41
U13-220427	38	39	38	38	48	43	35
U13-229443	42	38	47	42	51	45	40
U13-231286	37	33	42	35	44	44	36
U13-233294	41	38	47	41	49	46	39
U13-233425	42	38	41	41	51	49	40
U13-235283	43	41	49	43	51	48	40
U13-329025	43	39	47	42	49	49	40
U14-605217	40	39	39	37	47	45	38
U14-608170	39	36	37	40	48	44	37
U14-615073	44	41	46	42	52	50	44
U14-902082	43	39	48	41	50	48	39
U14-912075	35	32	39	35	40	36	34
U14-924158	37	38	41	37	44	40	35
U14-926130	36	35	39	35	42	40	34

PRELIMINARY TEST IIIB, 2016

PLANT HEIGHT (inches)

Strain	Novelty MO	Clay Center NE	Lincoln NE	Wymore NE	Hoyt- ville OH	So Charles- ton OH
IA3023 (III)	39			44	29	36
IA3048 (SCN)	40			43	32	35
LD07-3395bf (SCN)	37			42	28	34
U11-920017	35			43	26	31
HM12-W060	44			45	30	37
HM13-R084	39			44	31	35
HM13-W040	36			39	29	36
HM13-W073	34			42	29	32
HM13-W091	34			46	29	34
HM14-C055	39			49	33	40
HR13-102381	38			45	34	40
HR13-102735	41			49	28	35
LD13-759	40			50	33	39
LD13-767	42			48	31	36
U13-215422	40			45	33	37
U13-220427	37			43	29	34
U13-229443	41			46	33	39
U13-231286	33			43	29	33
U13-233294	43			47	32	35
U13-233425	43			49	32	38
U13-235283	39			46	32	40
U13-329025	40			47	35	40
U14-605217	39			44	31	38
U14-608170	40			44	32	37
U14-615073	43			51	32	42
U14-902082	44			47	33	41
U14-912075	34			38	27	32
U14-924158	39			44	26	32
U14-926130	38			43	26	32

PRELIMINARY TEST IIIB, 2016

SEED SIZE (g/100)

Strain	Mean 11 Tests	Boone County IA	Crawfords- ville IA	Urbana IL	West Lafayette IN	Man- hattan KS	Ottawa KS
IA3023 (III)	15.7	14.9	12.4	16.4	15.1	16.8	17.4
IA3048 (SCN)	14.9	13.2	11.4	16.5	14.9	15.3	16.9
LD07-3395bf (SCN)	15.8	14.0	11.9	16.6	17.0	15.8	17.6
U11-920017	16.7	15.2	13.3	16.8	17.2	16.9	18.4
HM12-W060	15.9	14.3	11.8	16.9	17.0	17.5	17.7
HM13-R084	15.1	13.3	11.9	16.2	16.7	14.7	16.9
HM13-W040	17.1	14.7	12.7	20.0	18.1	17.0	19.0
HM13-W073	15.2	13.8	12.0	16.3	16.0	14.8	16.3
HM13-W091	15.6	13.7	11.0	17.2	17.5	15.5	18.3
HM14-C055	15.3	13.9	11.3	17.7	15.4	15.7	16.4
HR13-102381	17.7	14.8	14.8	19.5	18.7	18.3	19.0
HR13-102735	16.5	14.1	11.8	17.8	16.4	19.0	19.2
LD13-759	15.1	13.7	11.6	16.2	15.0	16.8	16.8
LD13-767	16.5	16.0	11.3	16.9	17.3	16.8	18.1
U13-215422	13.8	13.2	10.1	14.8	14.0	15.4	15.9
U13-220427	16.0	13.7	12.3	16.5	17.6	16.6	18.3
U13-229443	15.5	13.8	11.2	16.8	16.3	15.9	17.2
U13-231286	14.5	11.9	10.2	16.3	14.9	16.3	15.5
U13-233294	16.6	14.9	11.7	17.1	16.9	17.8	18.9
U13-233425	15.4	13.8	11.3	15.3	16.4	16.7	16.1
U13-235283	14.7	13.0	10.4	16.0	15.4	14.9	15.9
U13-329025	15.5	13.7	9.2	17.2	15.7	18.4	17.5
U14-605217	16.4	14.7	11.7	17.0	17.0	16.9	17.7
U14-608170	14.6	12.8	10.3	15.5	13.8	15.5	17.4
U14-615073	16.4	13.8	11.1	17.3	18.1	17.5	18.1
U14-902082	13.6	12.1	10.3	13.0	13.3	13.9	16.0
U14-912075	15.2	13.6	10.7	16.1	14.5	17.5	18.0
U14-924158	14.3	11.8	10.5	14.7	14.2	14.7	17.0
U14-926130	13.1	11.1	9.8	13.8	12.7	12.6	16.1

PRELIMINARY TEST IIIB, 2016

SEED SIZE (g/100)

Strain	Novelty MO	Clay Center NE	Lincoln NE	Wymore NE	Hoyt- ville OH	So Charles- ton OH
IA3023 (III)	13.8	16.7		18.0	16.5	14.7
IA3048 (SCN)	14.9	15.0		15.9	16.5	13.6
LD07-3395bf (SCN)	15.0	17.0		17.2	17.1	14.4
U11-920017	15.7	18.4		18.6	17.2	15.7
HM12-W060	12.6	17.5		18.0	17.9	13.6
HM13-R084	13.4	16.9		17.4	15.2	13.9
HM13-W040	16.7	18.2		19.2	18.5	14.1
HM13-W073	13.9	16.1		18.3	16.3	13.5
HM13-W091	13.3	16.7		16.9	16.6	14.7
HM14-C055	13.6	16.6		17.2	16.2	13.9
HR13-102381	15.7	18.8		19.6	17.8	17.4
HR13-102735	12.9	17.9		19.4	18.7	14.0
LD13-759	11.2	16.6		17.2	15.9	14.9
LD13-767	16.1	18.4		17.9	18.5	14.5
U13-215422	11.2	14.7		16.1	13.9	12.7
U13-220427	13.5	17.2		18.8	16.7	15.2
U13-229443	15.0	16.2		17.3	17.1	13.5
U13-231286	12.3	15.5		15.4	16.8	14.3
U13-233294	16.8	17.1		18.7	17.5	15.2
U13-233425	15.3	16.2		16.7	17.3	14.2
U13-235283	11.4	16.5		17.0	16.1	14.7
U13-329025	12.9	16.7		18.3	16.9	13.9
U14-605217	14.4	18.1		18.6	17.8	16.6
U14-608170	11.4	16.8		17.3	16.5	13.0
U14-615073	14.8	17.6		18.2	17.1	16.4
U14-902082	12.9	14.4		16.0	14.5	12.8
U14-912075	12.9	16.7		17.0	17.7	12.8
U14-924158	13.6	15.3		16.4	15.5	13.3
U14-926130	12.4	14.3		14.0	14.8	12.1

PRELIMINARY TEST IIIB, 2016

SEED QUALITY (score)

Strain	Mean 11 Tests	Boone County IA	Crawfords- ville IA	Urbana IL	West Lafayette IN	Man- hattan KS	Ottawa KS
IA3023 (III)	1.5	1.5	2.0	2.0	1.5	2.0	2.0
IA3048 (SCN)	1.6	1.5	3.0	1.0	1.0	3.0	2.0
LD07-3395bf (SCN)	2.0	2.0	2.0	2.0	2.0	3.0	3.0
U11-920017	2.1	2.0	3.0	2.0	2.5	4.0	3.0
HM12-W060	1.6	1.0	2.0	2.0	1.5	2.0	3.0
HM13-R084	1.7	1.5	3.0	2.0	1.0	3.0	2.0
HM13-W040	1.8	2.0	3.0	2.0	1.5	3.0	2.0
HM13-W073	1.9	2.0	4.0	2.0	1.0	2.0	2.0
HM13-W091	1.7	1.5	2.0	2.0	1.0	3.0	3.0
HM14-C055	1.8	1.5	3.0	2.0	1.0	3.0	2.0
HR13-102381	2.2	2.5	3.0	2.0	1.0	3.0	3.0
HR13-102735	2.0	2.0	3.0	2.0	1.5	3.0	3.0
LD13-759	1.8	2.0	2.0	2.0	1.0	3.0	3.0
LD13-767	1.8	2.5	2.0	2.0	1.5	3.0	3.0
U13-215422	1.9	2.0	2.0	2.0	1.0	3.0	3.0
U13-220427	1.7	1.5	2.0	2.0	1.0	3.0	3.0
U13-229443	1.9	2.0	3.0	2.0	1.0	3.0	2.0
U13-231286	2.0	2.0	4.0	2.0	1.0	3.0	2.0
U13-233294	2.0	1.0	4.0	2.0	1.5	3.0	3.0
U13-233425	2.0	2.0	3.0	2.0	1.5	3.0	3.0
U13-235283	2.0	2.0	3.0	2.0	1.0	3.0	2.0
U13-329025	1.8	1.5	3.0	2.0	1.0	3.0	2.0
U14-605217	1.8	1.5	3.0	2.0	1.5	3.0	2.0
U14-608170	1.9	1.5	3.0	2.0	1.0	3.0	3.0
U14-615073	2.1	2.0	3.0	2.0	1.5	3.0	3.0
U14-902082	1.7	1.0	3.0	2.0	1.0	3.0	3.0
U14-912075	1.7	1.0	3.0	2.0	1.0	3.0	3.0
U14-924158	2.0	1.5	3.0	2.0	1.0	3.0	3.0
U14-926130	1.6	1.5	2.0	2.0	1.0	3.0	3.0

PRELIMINARY TEST IIIB, 2016

SEED QUALITY (score)

Strain	Novelty MO	Clay Center NE	Lincoln NE	Wymore NE	Hoyt- ville OH	So Charles- ton OH
IA3023 (III)	2.0	1.0		1.0	1.0	1.0
IA3048 (SCN)	1.8	1.0		1.0	1.0	1.0
LD07-3395bf (SCN)	2.5	2.0		1.0	1.0	2.0
U11-920017	2.0	1.0		1.0	1.0	1.5
HM12-W060	2.0	1.0		1.0	1.0	1.0
HM13-R084	2.0	1.0		1.0	1.0	1.0
HM13-W040	1.5	1.0		1.0	1.0	1.5
HM13-W073	2.0	2.0		1.0	1.0	1.5
HM13-W091	2.0	1.0		1.0	1.0	1.5
HM14-C055	1.8	1.0		2.0	1.0	1.0
HR13-102381	2.3	2.0		1.0	2.0	2.0
HR13-102735	2.5	1.0		1.0	1.0	1.5
LD13-759	2.0	1.0		1.0	1.0	2.0
LD13-767	2.0	1.0		1.0	1.0	1.0
U13-215422	2.0	1.0		2.0	1.0	2.0
U13-220427	1.5	1.0		1.0	1.0	1.5
U13-229443	1.0	2.0		2.0	1.0	2.0
U13-231286	2.0	1.0		2.0	1.0	1.5
U13-233294	2.3	1.0		2.0	1.0	1.5
U13-233425	1.0	2.0		2.0	1.0	1.0
U13-235283	2.0	2.0		2.0	1.0	1.5
U13-329025	1.5	1.0		2.0	1.0	1.5
U14-605217	1.8	1.0		2.0	1.0	1.0
U14-608170	2.3	1.0		1.0	1.0	2.0
U14-615073	2.0	2.0		2.0	1.0	1.5
U14-902082	1.5	1.0		1.0	1.0	1.0
U14-912075	1.0	1.0		1.0	1.0	1.5
U14-924158	2.0	2.0		1.0	2.0	1.5
U14-926130	1.3	1.0		1.0	1.0	1.0

PRELIMINARY TEST IIIB, 2016

PROTEIN (%)

Strain	Mean 5 Tests	Urbana IL	West Lafayette IN	Clay Center NE	Wymore NE	Hoytville OH
IA3023 (III)	33.3	33.4	33.4	32.8	33.6	33.5
IA3048 (SCN)	34.6	35.4	35.3	33.8	34.3	34.2
LD07-3395bf (SCN)	33.0	33.2	33.1	32.6	33.8	32.3
U11-920017	32.6	33.0	33.4	32.1	33.7	31.0
HM12-W060	34.8	34.9	34.8	34.3	35.1	34.7
HM13-R084	34.3	34.8	35.3	34.0	35.0	32.7
HM13-W040	35.3	35.8	36.1	34.0	34.9	35.5
HM13-W073	35.0	36.0	35.8	34.2	35.3	33.6
HM13-W091	36.3	37.1	37.2	35.0	36.5	35.8
HM14-C055	35.9	36.3	37.2	34.8	36.6	34.6
HR13-102381	35.3	36.0	35.8	34.9	35.4	34.3
HR13-102735	36.7	37.1	37.1	36.2	36.6	36.7
LD13-759	34.2	35.1	34.7	33.6	34.1	33.3
LD13-767	34.3	33.8	34.5	34.1	34.1	34.8
U13-215422	33.7	33.8	34.7	33.5	34.5	32.1
U13-220427	34.5	34.9	34.9	33.8	35.1	33.8
U13-229443	33.2	33.3	33.6	32.7	33.8	32.8
U13-231286	34.3	35.2	34.0	33.9	34.6	34.0
U13-233294	34.2	34.3	34.6	33.1	35.0	33.9
U13-233425	34.3	33.7	35.5	33.2	33.9	35.0
U13-235283	32.8	32.6	33.0	32.9	33.4	31.8
U13-329025	33.9	34.8	34.3	33.7	34.3	32.4
U14-605217	33.1	33.0	33.1	33.7	34.1	31.3
U14-608170	32.9	33.9	33.8	32.0	33.4	31.7
U14-615073	33.5	33.7	34.2	32.2	34.1	33.6
U14-902082	32.9	33.4	33.3	32.9	33.1	31.9
U14-912075	33.6	33.5	34.2	33.4	33.8	33.3
U14-924158	32.0	32.1	31.9	31.4	32.3	32.1
U14-926130	33.9	34.9	34.4	33.2	34.3	32.7

PRELIMINARY TEST IIIB, 2016

OIL (%)

Strain	Mean 5 Tests	Urbana IL	West Lafayette IN	Clay Center NE	Wymore NE	Hoytville OH
IA3023 (III)	19.8	20.4	20.3	19.0	19.1	20.1
IA3048 (SCN)	19.2	19.6	19.5	18.7	18.4	19.7
LD07-3395bf (SCN)	20.1	20.4	20.6	19.4	19.4	20.8
U11-920017	20.5	20.8	20.7	19.8	19.5	21.7
HM12-W060	19.6	20.0	20.1	19.0	19.0	19.9
HM13-R084	20.0	20.2	20.5	19.3	19.1	21.0
HM13-W040	19.2	19.3	19.5	18.9	19.1	19.5
HM13-W073	19.6	19.8	19.8	19.1	18.8	20.3
HM13-W091	18.4	18.7	18.7	18.4	17.7	18.8
HM14-C055	18.8	19.0	19.1	18.3	18.2	19.4
HR13-102381	19.3	19.5	19.9	18.6	18.7	20.0
HR13-102735	18.5	18.9	18.8	17.7	18.3	18.9
LD13-759	20.0	20.5	20.0	19.5	19.6	20.5
LD13-767	20.2	20.7	20.6	19.6	19.8	20.2
U13-215422	20.5	21.2	20.8	19.7	19.8	21.0
U13-220427	19.8	20.1	20.1	19.4	18.8	20.4
U13-229443	20.4	20.8	20.8	19.7	19.7	20.9
U13-231286	19.4	19.6	20.2	18.7	19.0	19.6
U13-233294	19.8	20.1	20.2	19.5	19.0	20.1
U13-233425	19.5	20.0	19.7	19.2	19.2	19.6
U13-235283	20.0	20.4	20.5	19.1	19.3	20.5
U13-329025	19.7	19.9	20.0	18.9	19.1	20.5
U14-605217	20.1	20.5	20.9	19.0	19.1	21.0
U14-608170	19.7	19.7	19.7	19.3	19.3	20.5
U14-615073	20.0	20.4	20.2	19.9	19.3	20.3
U14-902082	19.3	19.7	19.3	18.8	18.9	20.0
U14-912075	20.0	20.5	20.2	19.4	19.5	20.4
U14-924158	20.4	20.9	21.0	19.6	19.7	20.8
U14-926130	19.6	19.8	19.5	19.2	18.9	20.6

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UNIFORM TEST IV, 2016

Ent.	Strain	Parentage	Seed Source	Previous Testing	Gen. Comp.	Unique Traits
1	LD06-7620 (IV)	IA3023 x LD00- 3309	Diers	5	F5	SCN
2	LD00-2817P (L)	Ina x Dwight	Diers	7	F5	SCN
3	LD07-3395bf (SCN)	LD07-3395 Reselection	Diers	1	F5	SCN
4	LD12-10534	LG04-6000 x (LD00-3309(5) x LD07-5065)	Diers	PTIV	F5	
5	LG10-3278	LG03-2087 x LG03-6296	Nelson	1	F6	Diversity
6	LG11-6759	LG00-3372 x LD00-3309	Nelson	1	F8	Diversity
7	LG11-6760	LG00-3372 x LD00-3309	Nelson	1	F8	Diversity
8	LG11-6761	LG00-3372 x LD00-3309	Nelson	PTIV	F9	Diversity
9	LG13-3925	LG04-6000 x LG04-5187	Nelson	PTIV	F6	Diversity
10	LG13-3981	LG04-5196 x LG06-5920	Nelson	PTIV	F6	Diversity
11	LG13-3993	LG04-5196 x LG06-5920	Nelson	PTIV	F6	Diversity
12	SA10-8471	LG04-6000 x LD04-5907	Scaboo	2	F5	
13	SA12-1451	CL06-121119 x S07-5117	Scaboo	PTIV	F5	
14	SA12-1471	CL06-121119 x S07-5117	Scaboo	PTIV	F5	

UNIFORM TEST IV, 2016

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	Shattering	Green Stem		Frogeye	SDS Data		
		Score Man-hattan	Score So Charleston	Jackson	Shawnee-town FLS Severity	Shawneetown and Shaw SDS DX	Valmeyer, IL SDS DX	Mean SDS Mean DX
LD06-7620 (IV)	PGTDYBI	1.0	2.4	1.3	8.0	2.5	22.2	12.4
LD00-2817P (L)	PGTIYDibI	2.0	3.6	1.3	7.5	11.1	0.0	5.6
LD07-3395bf (SCN)	WGTSYBfI	1.0	3.2	1.7	8.0	0.1	0.0	0.0
LD12-10534	WGTSYBI	2.0	3.5	1.0	6.0	6.1	0.0	3.1
LG10-3278	PTBSYBI	1.0	3.8	1.7	0.0	1.9	1.1	1.5
LG11-6759	PGTSYDbrI	1.0	3.3	1.0	8.0	7.5		8.0
LG11-6760	PGTSYDbrI	2.0	2.8	1.0	8.0	15.6	2.5	9.0
LG11-6761	PGTSYDbrI	1.0	1.8	1.3	8.0	11.1	0.0	5.6
LG13-3925	WGTSYBrI	1.0	2.4	2.0	5.5	5.0	0.0	2.5
LG13-3981	WGTIYDbrI	2.0	3.2	1.0	7.5	3.3	0.0	1.7
LG13-3993	PTBIYDbrI	1.0	4.0	1.7	8.0	5.3	6.7	6.0
SA10-8471	PGTDYBfI	1.0	3.6	1.0	7.0	8.3	15.6	11.9
SA12-1451	PGTSYDibI	1.0	4.0	1.0	0.5	5.3	0.0	2.6
SA12-1471	WGTDYGI	2.0	3.3	1.0	1.5	8.3	0.0	4.2
				Mean	5.6	9.0	7.2	
				P>F	<.0001	0.0005	0.0018	
				LSD	1.4	14.7	21.8	

UNIFORM TEST IV, 2016

REGIONAL SUMMARY

No. of Tests Strain	Yield	Rank	Maturity	Lodging	Plant	Seed	Seed	Composition	
	13 bu/a	13 No.	13 Date	13 Score	Height 13 In.	Size 13 g/100	Quality 13 Score	Protein 5 %	Oil 5 %
LD06-7620 (IV)	69.8	2	9/28	2.3	39	14.7	2.2	35.4	19.3
LD00-2817P (L)	68.6	6	0.7	2.6	43	13.6	2.2	33.7	20.4
LD07-3395bf (SCN)	69.5	3	-3.5	2.2	35	15.7	2.3	33.5	20.8
LD12-10534	69.1	4	-1.6	2.3	38	14.6	1.9	34.3	19.9
LG10-3278	63.2	13	0.9	2.8	44	15.7	2.1	36.3	20.1
LG11-6759	67.4	7	-1.8	2.8	44	15.7	2.2	35.6	19.6
LG11-6760	67.0	9	0.5	2.2	43	15.2	2.3	34.7	19.9
LG11-6761	67.1	8	-1.9	2.9	44	15.4	2.3	35.6	19.7
LG13-3925	63.8	12	-0.4	3.2	45	15.7	2.4	35.1	19.6
LG13-3981	65.8	11	-0.8	3.0	41	17.3	2.3	35.3	20.1
LG13-3993	68.8	5	1.8	2.6	42	17.4	2.3	34.9	20.3
SA10-8471	61.3	14	0.7	2.3	42	13.7	2.0	34.4	19.8
SA12-1451	72.7	1	2.8	2.1	35	13.1	2.0	36.4	19.2
SA12-1471	66.5	10	2.2	2.5	44	15.9	2.0	36.3	19.5
Mean	66.8			2.6	41.2	15.0	2.1		
C.V. (%)	10.4			20.5	6.7	7.0	22.7		
L.S.D. (5%)	3.2			0.2	1.3	0.6	0.3		

130.8 Days After Planting

UNIFORM TEST IV, 2016

2015-2016 2-Year Mean

No. of Tests Strain	Yield	Rank	Maturity	Lodging	Plant	Seed	Seed	<u>Composition</u>	
	25 bu/a	25 No.	26 Date	27 Score	Height 27 In.	Size 26 g/100	Quality 26 Score	Protein 13 %	Oil 13 %
LD06-7620 (IV)	64.2	2	9/25	2.1	35	14.4	2.2	35.1	19.2
LD00-2817P (L)	61.5	5	1.9	2.3	39	13.3	2.2	33.6	20.2
LD07-3395bf (SCN)	64.0	3	-2.3	1.9	32	15.5	2.2	33.4	20.6
LG10-3278	60.2	6	1.8	2.5	40	14.8	2.2	35.9	19.9
LG11-6759	63.8	4	-0.2	2.6	40	15.3	2.2	35.4	19.4
LG11-6760	65.5	1	2.3	2.1	39	14.9	2.3	34.6	19.6
SA10-8471	59.0	7	3.0	2.1	38	13.6	2.0	34.2	19.6

127.8 Days After Planting

2014-2016 3-Year Mean

No. of Tests Strain	Yield	Rank	Maturity	Lodging	Plant	Seed	Seed	<u>Composition</u>	
	33 bu/a	33 No.	36 Date	37 Score	Height 37 In.	Size 36 g/100	Quality 36 Score	Protein 19 %	Oil 19 %
LD06-7620 (IV)	61.2	1	9/20	1.9	33	14.5	2.3	35.1	19.1
LD00-2817P (L)	58.6	2	2.3	2.2	37	13.6	2.4	33.6	20.1
SA10-8471	58.2	3	2.7	2.0	37	13.6	2.1	34.1	19.4

129.0 Days After Planting

UNIFORM TEST IV, 2016

YIELD (bu/a)

Strain	Mean 13 Tests	Ivesdale IL	Neoga IL	Urbana IL	West Lafayette IN	Man- hattan KS	Onaga KS
LD06-7620 (IV)	69.8	89.0	67.8	71.8	68.4	66.3	66.3
LD00-2817P (L)	68.6	71.3	73.8	66.4	63.8	71.7	69.0
LD07-3395bf (SCN)	69.5	79.7	73.6	73.2	72.2	69.5	65.0
LD12-10534	69.1	85.6	65.3	79.7	65.3	64.6	70.3
LG10-3278	63.2	69.5	56.9	70.3	54.1	57.0	60.7
LG11-6759	67.4	83.0	67.0	69.6	62.8	60.4	61.6
LG11-6760	67.0	78.2	76.9	67.7	68.0	60.9	58.8
LG11-6761	67.1	85.4	68.8	73.8	64.2	65.7	63.8
LG13-3925	63.8	65.1	57.6	71.2	55.4	71.0	67.4
LG13-3981	65.8	75.9	58.6	68.6	64.1	60.7	58.4
LG13-3993	68.8	79.2	73.1	74.9	69.2	61.2	65.6
SA10-8471	61.3	67.3	58.5	55.1	53.5	64.0	63.2
SA12-1451	72.7	82.2	75.7	71.6	69.4	70.6	70.7
SA12-1471	66.5	72.5	70.6	68.3	66.3	61.4	66.1
Location Mean		77.4	67.4	70.2	64.0	64.6	64.8
C.V. (%)		6.8	2.7	5.1	5.9	6.1	7.0
L.S.D. (5%)		11.3	3.9	7.7	6.3	6.6	7.6
Row Sp. (In.)		30	30	30	30	30	30
Rows/Plot		4	4	4	4	4	4
Reps		2	2	2	3	3	3

UNIFORM TEST IV, 2016

YIELD (bu/a)

Strain	Ottawa KS	Albany MO	Novelty MO	Portageville Clay MO	Portageville Loam MO	So Charles- ton OH	Jack- son TN
LD06-7620 (IV)	77.1	79.5	81.6	54.4	73.1	62.0	49.6
LD00-2817P (L)	73.1	81.9	79.6	53.1	73.6	53.8	60.2
LD07-3395bf (SCN)	72.0	79.3	80.7	53.1	77.3	60.2	48.4
LD12-10534	75.3	80.4	65.2	65.2	74.7	58.4	48.8
LG10-3278	62.8	75.1	58.8	66.5	76.3	57.8	55.9
LG11-6759	65.5	72.8	78.8	58.4	75.8	64.9	55.6
LG11-6760	64.4	74.2	76.4	57.0	78.1	61.9	49.1
LG11-6761	65.0	77.7	73.2	60.9	72.8	53.6	47.6
LG13-3925	68.6	80.3	40.1	62.8	81.0	54.6	54.6
LG13-3981	68.5	80.0	68.7	63.6	78.0	57.3	52.7
LG13-3993	70.3	69.9	72.0	64.3	78.1	65.1	52.0
SA10-8471	71.9	72.2	38.2	62.1	77.5	56.6	56.5
SA12-1451	73.3	90.7	72.7	58.2	77.0	74.8	57.9
SA12-1471	66.9	76.9	71.5	59.4	71.0	59.8	54.3
Location Mean	69.6	77.9	68.4	59.9	76.0	60.0	53.1
C.V. (%)	4.4	8.2	12.1	5.6	5.5	9.7	11.0
L.S.D. (5%)	5.1	10.7	14.0	6.8	8.5	11.9	9.8
Row Sp. (In.)	30	30	30	30	30	15	30
Rows/Plot	4	4	4	4	4	6	4
Reps	3	3	3	2	2	3	3

UNIFORM TEST IV, 2016

YIELD RANK

Strain	Yield Rank	Ivesdale IL	Neoga IL	Urbana IL	West Lafayette IN	Manhattan KS	Onaga KS
LD06-7620 (IV)	2	1	8	5	4	5	5
LD00-2817P (L)	6	11	3	13	10	1	3
LD07-3395bf (SCN)	3	6	4	4	1	4	8
LD12-10534	4	2	10	1	7	7	2
LG10-3278	13	12	14	8	13	14	12
LG11-6759	7	4	9	9	11	13	11
LG11-6760	9	8	1	12	5	11	13
LG11-6761	8	3	7	3	8	6	9
LG13-3925	12	14	13	7	12	2	4
LG13-3981	11	9	11	10	9	12	14
LG13-3993	5	7	5	2	3	10	7
SA10-8471	14	13	12	14	14	8	10
SA12-1451	1	5	2	6	2	3	1
SA12-1471	10	10	6	11	6	9	6

UNIFORM TEST IV, 2016

MATURITY (date)

Strain	Mean 13 Tests	Ivesdale IL	Neoga IL	Urbana IL	West Lafayette IN	Manhattan KS	Onaga KS
LD06-7620 (IV)	9/28	10/6	9/29	10/1	10/8	10/9	9/28
LD00-2817P (L)	1	-4	4	6	1	-1	-5
LD07-3395bf (SCN)	-4	-8	-3	-5	-2	-3	-6
LD12-10534	-2	-5	-2	-1	-2	-1	-5
LG10-3278	1	-1	2	5	0	0	-2
LG11-6759	-2	-4	-2	1	-5	-2	-4
LG11-6760	0	-3	-1	6	-1	-2	0
LG11-6761	-2	-4	-4	-1	-2	-2	-3
LG13-3925	-0	-6	-1	1	-3	2	-3
LG13-3981	-1	-6	-1	0	0	-1	-3
LG13-3993	2	-3	2	6	-1	3	0
SA10-8471	1	-4	1	9	0	1	-1
SA12-1451	3	-3	6	7	3	3	5
SA12-1471	2	0	4	8	1	2	2
Date Planted	5/21	5/19	5/25	5/24	5/22	6/2	5/10
Days to Mature	131	140	127	130	139	129	141

UNIFORM TEST IV, 2016

YIELD RANK

Strain	Ottawa KS	Albany MO	Novelty MO	Portageville Clay MO	Portageville Loam MO	So Charles- ton OH	Jack- son TN
LD06-7620 (IV)	1	6	1	12	12	4	10
LD00-2817P (L)	4	2	3	13	11	13	1
LD07-3395bf (SCN)	5	7	2	14	6	6	13
LD12-10534	2	3	11	2	10	8	12
LG10-3278	14	10	12	1	8	9	4
LG11-6759	11	12	4	9	9	3	5
LG11-6760	13	11	5	11	2	5	11
LG11-6761	12	8	6	7	13	14	14
LG13-3925	8	4	13	5	1	12	6
LG13-3981	9	5	10	4	4	10	8
LG13-3993	7	14	8	3	2	2	9
SA10-8471	6	13	14	6	5	11	3
SA12-1451	3	1	7	10	7	1	2
SA12-1471	10	9	9	8	14	7	7

UNIFORM TEST IV, 2016

MATURITY (date)

Strain	Ottawa KS	Albany MO	Novelty MO	Portageville Clay MO	Portageville Loam MO	So Charles- ton OH	Jack- son TN
LD06-7620 (IV)	10/3	10/15	9/28	9/16	9/5	10/3	9/14
LD00-2817P (L)	-5	-0	2	2	3	5	1
LD07-3395bf (SCN)	-5	-6	-2	-2	-2	-2	0
LD12-10534	-3	-1	-1	0	-1	2	-2
LG10-3278	-3	-1	0	2	5	4	1
LG11-6759	-4	-3	-0	-1	0	1	-1
LG11-6760	-2	-0	-0	2	5	3	-1
LG11-6761	-5	-3	-1	0	0	0	-1
LG13-3925	-1	-2	-2	2	5	0	2
LG13-3981	-4	-4	-1	1	5	2	0
LG13-3993	0	-1	1	2	6	5	2
SA10-8471	-1	-1	-2	1	3	3	0
SA12-1451	0	1	1	2	5	6	1
SA12-1471	-2	-1	1	2	6	3	2
Date Planted	6/6	6/9	5/24	5/9	4/21	5/17	5/23
Days to Mature	119	128	127	130	137	139	114

UNIFORM TEST IV, 2016

LODGING (score)

Strain	Mean 13 Tests	Ivesdale IL	Neoga IL	Urbana IL	West Lafayette IN	Man- hattan KS	Onaga KS
LD06-7620 (IV)	2.3	2.3	2.3	1.3	2.7	3.0	2.0
LD00-2817P (L)	2.6	2.8	2.8	1.8	2.0	3.3	1.3
LD07-3395bf (SCN)	2.2	2.0	2.5	1.5	2.5	2.0	1.0
LD12-10534	2.3	2.0	1.5	1.8	3.2	3.7	1.7
LG10-3278	2.8	2.0	3.0	3.0	3.2	2.7	2.3
LG11-6759	2.8	2.5	2.8	2.3	3.3	3.3	1.7
LG11-6760	2.2	2.0	2.0	1.5	2.0	2.3	1.7
LG11-6761	2.9	2.5	3.3	2.0	3.0	3.3	2.0
LG13-3925	3.2	3.0	3.0	2.3	3.7	4.0	2.7
LG13-3981	3.0	2.5	3.3	2.8	3.2	3.0	2.7
LG13-3993	2.6	2.3	3.0	2.0	2.5	2.7	1.7
SA10-8471	2.3	1.5	2.0	1.5	2.5	2.7	1.0
SA12-1451	2.1	2.0	2.3	1.3	2.2	2.7	1.0
SA12-1471	2.5	2.3	2.0	1.8	3.0	3.3	2.0

UNIFORM TEST IV, 2016

PLANT HEIGHT (inches)

Strain	Mean 13 Tests	Ivesdale IL	Neoga IL	Urbana IL	West Lafayette IN	Man- hattan KS	Onaga KS
LD06-7620 (IV)	39	43	36	37	42	51	46
LD00-2817P (L)	43	48	45	44	46	45	37
LD07-3395bf (SCN)	35	41	36	36	37	41	36
LD12-10534	38	44	34	43	41	46	37
LG10-3278	44	47	43	43	46	46	45
LG11-6759	44	51	43	48	47	50	46
LG11-6760	43	47	42	47	47	47	45
LG11-6761	44	51	44	49	49	51	46
LG13-3925	45	48	43	49	51	50	46
LG13-3981	41	45	39	44	45	45	45
LG13-3993	42	48	41	46	46	47	44
SA10-8471	42	47	42	42	47	45	42
SA12-1451	35	40	36	34	39	40	34
SA12-1471	44	48	43	41	50	47	45

UNIFORM TEST IV, 2016

LODGING (score)

Strain	Ottawa KS	Albany MO	Novelty MO	Portageville Clay MO	Portageville Loam MO	So Charles- ton OH	Jack- son TN
LD06-7620 (IV)	2.3	3.7	2.8	2.7	2.0	2.5	1.0
LD00-2817P (L)	1.7	3.5	2.7	3.0	3.0	4.1	1.7
LD07-3395bf (SCN)	3.0	3.7	2.7	2.0	2.3	2.2	1.0
LD12-10534	2.3	3.5	2.2	2.0	2.3	2.7	1.0
LG10-3278	2.0	3.8	2.7	3.0	3.0	3.8	2.0
LG11-6759	2.3	3.7	2.8	3.0	3.0	3.8	2.0
LG11-6760	2.0	2.8	2.3	2.7	3.0	2.9	1.0
LG11-6761	3.0	3.7	3.0	3.0	3.0	3.6	2.0
LG13-3925	3.0	3.5	2.7	3.7	2.7	4.2	2.7
LG13-3981	2.3	4.3	2.7	3.7	3.0	4.1	2.0
LG13-3993	2.3	3.3	2.8	3.0	2.7	3.9	1.3
SA10-8471	1.7	3.3	2.5	3.0	3.0	3.5	1.3
SA12-1451	1.0	2.7	2.5	3.0	3.0	3.0	1.0
SA12-1471	2.0	3.5	2.8	2.7	3.0	3.3	1.3

UNIFORM TEST IV, 2016

PLANT HEIGHT (inches)

Strain	Ottawa KS	Albany MO	Novelty MO	Portageville Clay MO	Portageville Loam MO	So Charles- ton OH	Jack- son TN
LD06-7620 (IV)	47	42	41	33	28	33	30
LD00-2817P (L)	37	52	48	41	36	40	36
LD07-3395bf (SCN)	38	38	38	31	29	31	28
LD12-10534	40	42	40	37	28	38	28
LG10-3278	44	47	47	41	40	41	37
LG11-6759	46	48	47	40	35	39	33
LG11-6760	43	49	45	37	40	39	33
LG11-6761	44	48	47	40	33	39	33
LG13-3925	47	50	46	42	32	43	39
LG13-3981	40	44	42	38	34	37	33
LG13-3993	40	44	44	39	36	37	33
SA10-8471	44	47	41	39	37	38	37
SA12-1451	35	41	39	30	32	34	25
SA12-1471	46	51	47	38	39	40	35

UNIFORM TEST IV, 2016

SEED SIZE (g/100)

Strain	Mean 13 Tests	Ivesdale IL	Neoga IL	Urbana IL	West Lafayette IN	Man- hattan KS	Onaga KS
LD06-7620 (IV)	14.7	15.6	15.4	14.4	15.8	13.7	13.3
LD00-2817P (L)	13.6	13.5	13.9	12.7	14.5	14.7	14.7
LD07-3395bf (SCN)	15.7	14.8	14.8	16.0	17.1	16.5	15.3
LD12-10534	14.6	15.3	14.4	16.2	15.3	15.1	14.3
LG10-3278	15.7	16.7	16.4	16.6	17.2	15.8	14.8
LG11-6759	15.7	16.5	15.8	16.7	17.0	15.5	14.7
LG11-6760	15.2	15.7	15.8	15.6	18.0	15.2	13.4
LG11-6761	15.4	16.4	15.6	16.0	17.6	15.2	13.5
LG13-3925	15.7	15.4	14.5	16.3	17.7	17.0	15.1
LG13-3981	17.3	17.3	18.3	17.5	19.8	18.2	16.9
LG13-3993	17.4	17.9	18.8	18.9	20.0	15.7	18.2
SA10-8471	13.7	14.2	13.3	14.8	16.0	14.9	13.6
SA12-1451	13.1	13.0	14.0	12.5	15.6	13.6	12.7
SA12-1471	15.9	16.6	16.9	17.2	18.5	16.1	14.5

UNIFORM TEST IV, 2016

SEED QUALITY (score)

Strain	Mean 13 Tests	Ivesdale IL	Neoga IL	Urbana IL	West Lafayette IN	Man- hattan KS	Onaga KS
LD06-7620 (IV)	2.2	1.8	2.0	2.0	2.0	3.0	3.0
LD00-2817P (L)	2.2	2.0	1.0	2.0	1.5	3.0	3.0
LD07-3395bf (SCN)	2.3	1.5	2.0	2.0	1.5	3.0	3.0
LD12-10534	1.9	1.5	2.0	2.0	1.0	3.0	3.0
LG10-3278	2.1	2.0	2.0	2.0	2.0	2.0	4.0
LG11-6759	2.2	1.8	2.0	2.0	1.5	3.0	3.0
LG11-6760	2.3	1.8	2.0	2.0	1.5	3.0	4.0
LG11-6761	2.3	1.8	2.0	2.0	2.0	3.0	4.0
LG13-3925	2.4	1.8	2.0	2.0	1.0	3.0	3.0
LG13-3981	2.3	1.8	2.0	2.0	2.0	3.0	3.0
LG13-3993	2.3	1.8	2.0	2.0	1.5	3.0	3.0
SA10-8471	2.0	2.0	2.0	2.0	1.0	2.0	3.0
SA12-1451	2.0	1.8	2.0	2.0	2.0	3.0	3.0
SA12-1471	2.0	1.5	1.0	2.0	1.0	3.0	3.0

UNIFORM TEST IV, 2016

SEED SIZE (g/100)

Strain	Ottawa KS	Albany MO	Novelty MO	Portageville Clay MO	Portageville Loam MO	So Charles- ton OH	Jack- son TN
LD06-7620 (IV)	13.8	17.5	15.6	13.4	14.3	14.9	13.0
LD00-2817P (L)	16.7	16.0	13.4	11.1	11.3	13.1	11.6
LD07-3395bf (SCN)	17.1	18.1	16.6	13.0	14.9	16.0	13.6
LD12-10534	15.1	18.3	14.1	12.6	12.4	15.0	11.9
LG10-3278	15.5	17.6	15.8	14.3	14.5	15.3	13.6
LG11-6759	16.6	18.8	15.4	13.4	14.0	16.0	13.5
LG11-6760	15.8	17.5	16.9	12.9	13.2	15.3	12.9
LG11-6761	16.1	18.7	15.3	13.1	13.6	15.2	13.8
LG13-3925	18.2	17.1	12.5	14.3	16.1	15.3	14.8
LG13-3981	18.4	19.5	16.1	15.6	15.5	16.9	14.5
LG13-3993	18.9	18.4	16.8	14.8	14.7	17.6	15.6
SA10-8471	14.0	16.6	11.3	11.6	11.7	13.7	12.3
SA12-1451	13.1	15.9	13.4	11.4	10.2	14.1	10.9
SA12-1471	15.6	18.3	15.5	14.4	12.8	16.6	13.2

UNIFORM TEST IV, 2016

SEED QUALITY (score)

Strain	Ottawa KS	Albany MO	Novelty MO	Portageville Clay MO	Portageville Loam MO	So Charles- ton OH	Jack- son TN
LD06-7620 (IV)	2.0	1.8	2.0	3.0	2.3	1.7	2.3
LD00-2817P (L)	3.0	1.5	2.0	2.3	1.7	3.0	2.3
LD07-3395bf (SCN)	3.0	3.3	1.5	2.0	2.3	2.0	3.3
LD12-10534	2.0	2.0	1.8	2.0	1.7	1.3	2.0
LG10-3278	2.0	1.3	2.3	1.0	2.0	3.0	2.0
LG11-6759	3.0	2.2	1.5	2.0	2.0	2.0	2.3
LG11-6760	3.0	3.0	2.0	2.0	1.7	2.0	2.0
LG11-6761	3.0	2.5	1.5	2.7	1.7	2.0	2.3
LG13-3925	3.0	3.0	1.8	3.0	2.0	2.3	3.0
LG13-3981	3.0	2.8	1.5	3.0	1.7	2.0	2.0
LG13-3993	3.0	3.3	1.7	2.7	1.7	2.0	2.3
SA10-8471	2.0	2.2	2.2	2.0	1.3	2.0	2.0
SA12-1451	3.0	2.3	1.5	1.0	1.3	1.3	2.0
SA12-1471	3.0	2.2	1.7	2.3	1.3	1.7	2.0

UNIFORM TEST IV, 2016

PROTEIN (%)

Strain	Mean 5 Tests	Neoga IL	Urbana IL	West Lafayette IN	So Charleston OH	Jackson TN
LD06-7620 (IV)	35.4	37.1	34.9	34.7	35.4	35.1
LD00-2817P (L)	33.7	34.8	34.3	33.2	33.1	32.9
LD07-3395bf (SCN)	33.5	34.0	33.9	33.2	32.8	33.8
LD12-10534	34.3	35.1	34.3	33.9	34.2	33.8
LG10-3278	36.3	37.1	36.5	35.9	36.2	36.0
LG11-6759	35.6	36.5	35.4	35.5	35.9	34.5
LG11-6760	34.7	35.9	34.6	34.7	34.4	33.9
LG11-6761	35.6	36.6	35.0	35.8	35.8	34.7
LG13-3925	35.1	35.5	35.2	33.8	34.9	36.3
LG13-3981	35.3	36.7	34.3	35.3	35.6	34.4
LG13-3993	34.9	35.7	34.9	35.1	34.7	34.0
SA10-8471	34.4	35.1	35.3	33.9	33.8	34.0
SA12-1451	36.4	37.0	36.2	36.3	36.3	36.1
SA12-1471	36.3	37.0	36.7	35.9	36.0	35.6

UNIFORM TEST IV, 2016

OIL (%)

Strain	Mean 5 Tests	Neoga IL	Urbana IL	West Lafayette IN	So Charleston OH	Jackson TN
LD06-7620 (IV)	19.3	19.0	18.7	19.3	19.0	20.3
LD00-2817P (L)	20.4	20.2	19.7	20.3	20.1	21.5
LD07-3395bf (SCN)	20.8	20.9	20.3	20.7	20.6	21.4
LD12-10534	19.9	20.0	19.2	19.8	19.6	20.9
LG10-3278	20.1	20.1	19.5	20.3	19.8	21.1
LG11-6759	19.6	19.6	19.3	19.4	19.3	20.7
LG11-6760	19.9	19.7	19.4	19.6	19.5	21.1
LG11-6761	19.7	19.8	19.4	19.5	19.2	20.6
LG13-3925	19.6	19.9	19.2	20.1	19.5	19.5
LG13-3981	20.1	19.9	19.9	20.0	19.8	20.9
LG13-3993	20.3	20.3	19.8	19.9	20.2	21.2
SA10-8471	19.8	19.7	18.6	20.1	19.7	20.9
SA12-1451	19.2	19.2	18.9	19.1	18.9	20.0
SA12-1471	19.5	19.6	18.8	19.4	19.0	20.6

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PRELIMINARY TEST IV, 2016

Ent.	Strain	Parentage	Seed Source	Gen. Comp.	Unique Traits
1	LD06-7620 (IV)	IA3023 x LD00- 3309	Diers	F5	SCN
2	LD00-2817P (L)	Ina x Dwight	Diers	F5	SCN
3	LD07-3395bf (SCN)	LD07-3395 Reselection	Diers	F5	SCN
4	DSN11-03148	IA 3023 x 4J105-3-4	Diers/Rainey		
5	DSN11-04129	IA 3023 x 5M20-2-5-2	Diers/Rainey		
6	JTN-4116	LG06-2354 x LG05-4354	Arelli	F8	Diversity, 25% PI
7	K14-1269	LG06-5920 x 435.TCS	Schapaugh	F4	
8	K14-1347	NCC05-1261 x 435.TCS	Schapaugh	F4	
9	K14-1357	NCC05-1261 x 435.TCS	Schapaugh	F4	STS
10	K14-1358	NCC05-1261 x 435.TCS	Schapaugh	F4	STS
11	K14-1387	NCC05-1261 x LD00-3309	Schapaugh	F4	STS
12	K14-1401	LS07-3125 x 435.TCS	Schapaugh	F4	STS
13	K14-1468	F3:5 06JR205000 x LG07-6911	Schapaugh	F6	Diversity
14	K14-1486	F3:5 03JR309156 x LG07-2640	Schapaugh	F6	Diversity
15	K14-1493	F3:5 03JR309156 x LG07-2640	Schapaugh	F6	Diversity
16	LG13-3576	LG05-4229 x LG04-5187	Nelson	F6	Genetic Diversity
17	LG13-3622	LG06-5920 x LG04-6000	Nelson	F6	Genetic Diversity
18	LG13-3729	LG04-4866 x LG04-5377	Nelson	F6	Genetic Diversity
19	LG13-3895	LG04-6000 x LG04-5187	Nelson	F6	Genetic Diversity
20	LG13-3971	LG04-6000 x LG04-5187	Nelson	F6	Genetic Diversity
21	LG13-3992	LG04-5196 x LG06-5920	Nelson	F6	Genetic Diversity
22	LG13-4025	LG04-5187 x LG05-4092	Nelson	F6	Genetic Diversity
23	LG14-6169	06NB204846 x LG04-5190	Nelson	F6	Genetic Diversity
24	LG14-7959	06JR205000 x LG07-6911	Nelson	F6	Genetic Diversity
25	LG14-7965	06JR205000 x LG07-6911	Nelson	F6	Genetic Diversity
26	LG14-8024	LG04-5190 x 03JR309156	Nelson	F6	Genetic Diversity
27	SA13-5761	LG04-5187 x LG05-4092	Scaboo	F5	

PRELIMINARY TEST IV, 2016
DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	Shattering	Green Stem
		Score Man-hattan	Score Jackson
LD06-7620 (IV)	PGTDYBI	1.0	1.5
LD00-2817P (L)	PGTIYDibI	2.0	1.5
LD07-3395bf (SCN)	WGTSYBfi	1.0	1.0
DSN11-03148	WGTSYG+BI	1.0	1.0
DSN11-04129	WGTSYBI	1.0	1.0
JTN-4116	PGTSYDbr+DibI	2.0	1.0
K14-1269	PTBDYBI	1.0	1.0
K14-1347	WGTIYDibI	1.0	1.0
K14-1357	WTBDYBI	1.0	1.0
K14-1358	PTBSYBI	1.0	1.0
K14-1387	PGTSYDibI	1.0	2.0
K14-1401	WTBDYBI	1.0	2.0
K14-1468	WGTDYDbfI	1.0	2.0
K14-1486	PTBIYBI	1.0	1.0
K14-1493	PTB+TDYB+LbI	2.0	1.0
LG13-3576	WTBIYLbrI	1.0	1.0
LG13-3622	WGTSYDibI	1.0	1.0
LG13-3729	WGTIYBrI	1.0	1.0
LG13-3895	WGTIYDibI	1.0	1.0
LG13-3971	WGTSYDibI	1.0	1.0
LG13-3992	PTBIYDbrI	1.0	1.5
LG13-4025	WTBSYBI	2.0	1.5
LG14-6169	WGTSYDibI	1.0	1.0
LG14-7959	PGBIYBfi	1.0	1.0
LG14-7965	PGBIYBfi	1.0	1.0
LG14-8024	WLtBIYLbI	1.0	1.0
SA13-5761	PTBSYDibI	1.0	1.5

PRELIMINARY TEST IV, 2016

REGIONAL SUMMARY

No. of Tests Strain	Yield	Rank	Maturity	Lodging	Plant	Seed	Seed	Composition	
	8 bu/a	8 No.	8 Date	8 Score	8 In.	8 g/100	8 Score	3 Protein %	3 Oil %
LD06-7620 (IV)	69.6	1	9/26	2.0	37	15.4	2.1	34.9	19.3
LD00-2817P (L)	66.7	5	2.5	2.1	44	14.3	2.5	34.3	19.9
LD07-3395bf (SCN)	68.9	2	-2.4	2.1	36	16.5	2.4	33.6	20.7
DSN11-03148	67.3	3	-0.4	2.7	46	19.5	2.2	33.6	20.8
DSN11-04129	65.5	9	-1.1	1.7	37	16.4	1.9	35.0	19.4
JTN-4116	61.7	18	-0.9	2.2	44	17.0	2.0	36.7	19.6
K14-1269	65.7	7	-0.2	2.7	45	16.1	2.6	35.4	19.7
K14-1347	65.7	7	-1.8	2.4	44	15.0	2.3	34.6	19.6
K14-1357	62.0	17	1.2	2.4	41	15.6	1.9	36.1	18.3
K14-1358	66.9	4	-0.1	2.8	43	16.0	2.1	35.5	18.9
K14-1387	55.2	27	5.5	3.1	43	12.9	2.0	35.2	18.9
K14-1401	64.9	11	0.9	1.6	38	15.2	1.9	36.2	19.8
K14-1468	65.4	10	2.7	2.3	44	14.4	1.9	35.3	20.3
K14-1486	59.3	22	-5.4	2.2	38	14.9	2.4	35.7	20.0
K14-1493	60.0	20	-0.0	2.1	46	13.9	1.9	35.0	20.1
LG13-3576	59.5	21	1.7	2.6	47	17.5	2.3	35.8	19.8
LG13-3622	64.1	13	3.0	2.8	45	15.3	1.7	35.9	19.5
LG13-3729	58.1	23	1.7	2.8	47	12.4	1.8	35.5	18.7
LG13-3895	58.1	23	-1.0	2.6	47	14.9	2.2	34.9	19.4
LG13-3971	57.2	26	0.3	2.8	45	15.8	2.3	35.3	19.6
LG13-3992	62.2	16	1.0	3.1	43	19.2	2.7	35.5	20.1
LG13-4025	57.3	25	-0.6	3.0	44	16.2	2.4	35.5	20.1
LG14-6169	64.9	11	-1.7	2.8	42	17.3	2.3	35.2	20.1
LG14-7959	65.8	6	5.8	2.4	43	14.4	2.0	35.3	19.9
LG14-7965	63.4	15	3.7	2.4	46	13.8	1.9	35.4	20.0
LG14-8024	63.6	14	4.3	2.2	43	17.1	2.3	35.6	19.7
SA13-5761	60.5	19	0.4	1.7	40	15.8	2.4	34.6	20.5
Mean	63.6			2.4	43.3	15.2	2.1		
C.V. (%)	13.0			23.9	6.3	8.8	22.2		
L.S.D. (5%)	5.3			0.4	1.7	1.1	0.4		

126.8 Days After Planting

PRELIMINARY TEST IV, 2016

YIELD (bu/a)

Strain	Mean 8 Tests	Urbana IL	West Lafayette IN	Man- hattan KS	Onaga KS
LD06-7620 (IV)	69.6	74.2	67.2	72.4	68.6
LD00-2817P (L)	66.7	67.3	66.8	64.7	61.7
LD07-3395bf (SCN)	68.9	75.1	69.0	67.4	69.3
DSN11-03148	67.3	74.3	62.1	63.3	71.7
DSN11-04129	65.5	75.7	68.8	65.8	70.3
JTN-4116	61.7	65.7	64.2	61.8	68.4
K14-1269	65.7	68.7	68.0	65.1	65.7
K14-1347	65.7	72.9	64.6	65.2	60.3
K14-1357	62.0	64.7	47.6	63.1	63.3
K14-1358	66.9	67.0	68.0	64.3	67.9
K14-1387	55.2	63.2	55.1	60.7	59.8
K14-1401	64.9	70.5	60.4	63.6	64.4
K14-1468	65.4	70.4	62.3	63.6	66.0
K14-1486	59.3	62.4	57.2	59.4	60.2
K14-1493	60.0	66.8	51.1	57.3	59.8
LG13-3576	59.5	62.6	51.5	57.5	60.5
LG13-3622	64.1	72.8	58.5	63.7	65.9
LG13-3729	58.1	60.8	45.1	68.1	67.1
LG13-3895	58.1	61.7	55.4	59.5	60.7
LG13-3971	57.2	57.4	55.3	60.6	60.6
LG13-3992	62.2	68.2	60.5	58.8	58.9
LG13-4025	57.3	62.8	55.7	55.1	58.7
LG14-6169	64.9	70.3	61.5	69.9	63.4
LG14-7959	65.8	68.6	63.5	62.7	61.6
LG14-7965	63.4	67.0	57.0	62.7	60.7
LG14-8024	63.6	76.2	66.5	61.9	66.9
SA13-5761	60.5	65.4	53.2	56.3	57.8
Location Mean		67.9	59.9	62.8	63.7
C.V. (%)		4.7	10.4	7.0	5.2
L.S.D. (5%)		6.5	12.8	7.2	5.4
Row Sp. (In.)		30	30	30	30
Rows/Plot		4	4	4	4
Reps		2	2	3	3

PRELIMINARY TEST IV, 2016

YIELD (bu/a)

Strain	Ottawa KS	Novelty MO	Portageville Clay MO	Jackson TN
LD06-7620 (IV)	73.4	94.6	60.0	46.1
LD00-2817P (L)	76.6	93.4	60.7	42.6
LD07-3395bf (SCN)	77.8	79.1	67.9	46.0
DSN11-03148	71.4	89.0	65.3	41.7
DSN11-04129	78.3	53.6	61.8	49.6
JTN-4116	62.0	55.2	71.0	45.4
K14-1269	73.7	85.0	54.4	45.2
K14-1347	73.9	86.2	59.7	43.1
K14-1357	67.4	85.9	61.4	42.4
K14-1358	73.4	83.6	67.3	43.6
K14-1387	66.7	43.6	50.9	41.8
K14-1401	77.5	79.5	56.4	46.5
K14-1468	73.5	76.4	64.0	47.1
K14-1486	67.8	61.0	67.6	38.7
K14-1493	74.4	56.0	68.0	46.8
LG13-3576	67.9	63.2	64.3	48.4
LG13-3622	79.5	57.0	69.0	46.3
LG13-3729	74.7	46.8	56.2	46.2
LG13-3895	68.3	58.6	61.1	39.7
LG13-3971	67.9	53.5	61.7	40.8
LG13-3992	67.9	75.1	63.8	44.8
LG13-4025	66.8	52.1	62.7	44.3
LG14-6169	69.9	66.5	70.8	46.6
LG14-7959	77.7	80.4	62.4	49.6
LG14-7965	73.8	78.0	63.5	44.8
LG14-8024	83.5	38.6	68.3	46.7
SA13-5761	68.5	81.6	63.5	37.5
Location Mean	72.4	69.4	63.1	44.5
C.V. (%)	4.8	10.5	6.8	8.7
L.S.D. (5%)	5.6	15.1	10.7	8.0
Row Sp. (In.)	30	30	30	30
Rows/Plot	4	4	4	4
Reps	3	2	2	2

PRELIMINARY TEST IV, 2016

YIELD RANK

Strain	Yield Rank	Urbana IL	West Lafayette IN	Manhattan KS	Onaga KS
LD06-7620 (IV)	1	5	5	1	4
LD00-2817P (L)	5	14	6	8	15
LD07-3395bf (SCN)	2	3	1	4	3
DSN11-03148	3	4	12	13	1
DSN11-04129	9	2	2	5	2
JTN-4116	18	18	9	18	5
K14-1269	7	11	3	7	11
K14-1347	7	6	8	6	21
K14-1357	17	20	26	14	14
K14-1358	4	15	3	9	6
K14-1387	27	21	22	19	23
K14-1401	11	8	15	11	12
K14-1468	10	9	11	11	9
K14-1486	22	24	17	22	22
K14-1493	20	17	25	25	23
LG13-3576	21	23	24	24	20
LG13-3622	13	7	16	10	10
LG13-3729	23	26	27	3	7
LG13-3895	23	25	20	21	17
LG13-3971	26	27	21	20	19
LG13-3992	16	13	14	23	25
LG13-4025	25	22	19	27	26
LG14-6169	11	10	13	2	13
LG14-7959	6	12	10	15	16
LG14-7965	15	15	18	15	17
LG14-8024	14	1	7	17	8
SA13-5761	19	19	23	26	27

PRELIMINARY TEST IV, 2016

YIELD RANK

Strain	Ottawa KS	Novelty MO	Portageville Clay MO	Jackson TN
LD06-7620 (IV)	14	1	22	11
LD00-2817P (L)	7	2	21	20
LD07-3395bf (SCN)	4	11	6	12
DSN11-03148	16	3	9	23
DSN11-04129	3	22	17	1
JTN-4116	27	21	1	13
K14-1269	12	6	26	14
K14-1347	10	4	23	19
K14-1357	24	5	19	21
K14-1358	14	7	8	18
K14-1387	26	26	27	22
K14-1401	6	10	24	8
K14-1468	13	13	11	4
K14-1486	23	17	7	26
K14-1493	9	20	5	5
LG13-3576	20	16	10	3
LG13-3622	2	19	3	9
LG13-3729	8	25	25	10
LG13-3895	19	18	20	25
LG13-3971	20	23	18	24
LG13-3992	20	14	12	15
LG13-4025	25	24	15	17
LG14-6169	17	15	2	7
LG14-7959	5	9	16	1
LG14-7965	11	12	13	15
LG14-8024	1	27	4	6
SA13-5761	18	8	13	27

PRELIMINARY TEST IV, 2016

MATURITY (date)

Strain	Mean 8 Tests	Urbana IL	West Lafayette IN	Man- hattan KS	Onaga KS
LD06-7620 (IV)	9/26	10/2	10/7	9/30	9/26
LD00-2817P (L)	3	4	3	4	1
LD07-3395bf (SCN)	-2	-6	-1	-1	-4
DSN11-03148	-0	-2	0	2	-1
DSN11-04129	-1	-2	-2	0	-1
JTN-4116	-1	-1	-2	-1	-3
K14-1269	-0	0	0	3	-2
K14-1347	-2	-3	-2	-0	-4
K14-1357	1	2	-1	4	2
K14-1358	-0	-1	0	2	-2
K14-1387	6	10	5	6	13
K14-1401	1	2	-2	2	1
K14-1468	3	4	3	4	6
K14-1486	-5	-9	-4	-2	-11
K14-1493	-0	0	-2	1	1
LG13-3576	2	3	-2	6	1
LG13-3622	3	4	1	6	5
LG13-3729	2	2	-3	5	3
LG13-3895	-1	-4	-1	3	-1
LG13-3971	0	-3	1	3	1
LG13-3992	1	1	1	4	-1
LG13-4025	-1	-3	0	3	-2
LG14-6169	-2	-4	0	0	-5
LG14-7959	6	8	4	6	8
LG14-7965	4	4	2	6	8
LG14-8024	4	6	2	7	8
SA13-5761	0	1	-3	3	2
Date Planted	5/22	5/24	5/22	6/2	5/10
Days to Mature	127	131	138	120	139

PRELIMINARY TEST IV, 2016

MATURITY (date)

Strain	Ottawa KS	Novelty MO	Portageville Clay MO	Jackson TN
LD06-7620 (IV)	9/29	9/30	9/16	9/12
LD00-2817P (L)	4	0	2	3
LD07-3395bf (SCN)	-2	-4	-3	2
DSN11-03148	0	-4	1	0
DSN11-04129	0	-5	1	0
JTN-4116	-0	-5	2	2
K14-1269	0	-2	-1	0
K14-1347	-1	-3	-3	2
K14-1357	1	-2	1	3
K14-1358	-1	-3	1	2
K14-1387	5	-3	0	7
K14-1401	2	-3	2	3
K14-1468	4	-3	2	2
K14-1486	-7	-5	-6	0
K14-1493	1	-5	1	2
LG13-3576	3	-2	2	3
LG13-3622	4	-3	3	3
LG13-3729	4	-5	3	5
LG13-3895	-1	-4	0	0
LG13-3971	3	-3	1	0
LG13-3992	2	-2	0	2
LG13-4025	3	-4	-1	0
LG14-6169	-2	-4	-1	2
LG14-7959	5	6	3	6
LG14-7965	4	-1	3	3
LG14-8024	5	-5	4	7
SA13-5761	3	-2	-1	0
Date Planted	6/6	5/24	5/9	5/23
Days to Mature	115	129	130	112

PRELIMINARY TEST IV, 2016

LODGING (score)

Strain	Mean 8 Tests	Urbana IL	West Lafayette IN	Man- hattan KS	Onaga KS
LD06-7620 (IV)	2.0	1.5	3.0	3.0	1.0
LD00-2817P (L)	2.1	2.0	2.8	2.3	1.0
LD07-3395bf (SCN)	2.1	1.5	2.5	3.0	1.0
DSN11-03148	2.7	1.8	3.0	3.0	2.0
DSN11-04129	1.7	1.3	3.8	1.7	1.0
JTN-4116	2.2	1.8	2.5	2.7	1.7
K14-1269	2.7	2.0	3.0	3.3	2.7
K14-1347	2.4	1.8	2.5	3.0	2.3
K14-1357	2.4	1.8	3.5	3.3	2.0
K14-1358	2.8	2.0	2.5	4.0	2.3
K14-1387	3.1	2.5	3.3	3.7	3.3
K14-1401	1.6	1.0	2.0	1.7	1.0
K14-1468	2.3	1.3	3.0	2.3	1.7
K14-1486	2.2	1.0	3.5	3.0	1.7
K14-1493	2.1	1.8	3.0	2.3	1.7
LG13-3576	2.6	2.0	3.3	3.0	2.7
LG13-3622	2.8	2.3	4.0	3.0	2.7
LG13-3729	2.8	2.3	3.8	3.0	3.0
LG13-3895	2.6	1.5	4.5	3.0	2.0
LG13-3971	2.8	2.5	4.3	3.7	2.3
LG13-3992	3.1	3.3	4.0	3.7	3.0
LG13-4025	3.0	2.5	3.5	4.0	3.7
LG14-6169	2.8	2.0	3.5	3.0	2.7
LG14-7959	2.4	1.8	3.5	2.3	2.3
LG14-7965	2.4	1.8	3.3	2.7	1.7
LG14-8024	2.2	2.0	3.8	2.0	1.3
SA13-5761	1.7	1.3	3.3	1.7	1.0

PRELIMINARY TEST IV, 2016

LODGING (score)

Strain	Ottawa KS	Novelty MO	Portageville Clay MO	Jack- son TN
LD06-7620 (IV)	1.7	2.5	2.5	1.0
LD00-2817P (L)	2.0	2.5	3.0	1.5
LD07-3395bf (SCN)	2.0	3.0	2.5	1.0
DSN11-03148	2.7	2.8	3.0	3.0
DSN11-04129	1.0	1.5	2.0	1.0
JTN-4116	2.7	2.5	3.0	1.0
K14-1269	3.3	3.0	3.0	1.5
K14-1347	2.7	2.8	3.0	1.5
K14-1357	1.7	2.5	3.0	1.5
K14-1358	3.0	2.8	3.5	2.0
K14-1387	3.0	2.8	4.0	2.0
K14-1401	1.0	2.5	2.5	1.0
K14-1468	2.0	3.0	3.0	2.0
K14-1486	2.0	3.0	2.0	1.0
K14-1493	2.0	2.3	3.0	1.0
LG13-3576	2.7	2.8	3.0	1.0
LG13-3622	2.7	3.0	3.5	1.5
LG13-3729	3.0	2.8	3.0	1.5
LG13-3895	3.0	3.0	2.5	1.0
LG13-3971	2.7	2.8	3.0	1.5
LG13-3992	3.0	3.0	3.0	1.5
LG13-4025	3.0	3.0	3.0	1.5
LG14-6169	3.0	3.0	3.0	2.0
LG14-7959	2.0	2.5	3.0	1.5
LG14-7965	2.3	2.5	3.0	2.0
LG14-8024	2.0	2.3	3.0	1.0
SA13-5761	1.0	2.0	2.0	1.0

PRELIMINARY TEST IV, 2016

PLANT HEIGHT (inches)

Strain	Mean 8 Tests	Urbana IL	West Lafayette IN	Man- hattan KS	Onaga KS
LD06-7620 (IV)	37	38	43	43	37
LD00-2817P (L)	44	46	50	50	45
LD07-3395bf (SCN)	36	36	40	40	35
DSN11-03148	46	45	53	53	46
DSN11-04129	37	39	42	44	36
JTN-4116	44	45	46	51	45
K14-1269	45	49	51	48	47
K14-1347	44	45	52	49	45
K14-1357	41	43	48	44	41
K14-1358	43	45	49	50	41
K14-1387	43	43	49	45	45
K14-1401	38	37	42	40	38
K14-1468	44	43	48	50	45
K14-1486	38	37	46	44	36
K14-1493	46	44	53	52	47
LG13-3576	47	47	54	50	50
LG13-3622	45	47	52	51	46
LG13-3729	47	47	52	53	48
LG13-3895	47	51	54	52	48
LG13-3971	45	49	50	48	47
LG13-3992	43	45	52	47	43
LG13-4025	44	49	50	49	43
LG14-6169	42	44	48	47	41
LG14-7959	43	42	48	49	45
LG14-7965	46	45	55	51	46
LG14-8024	43	43	51	48	41
SA13-5761	40	43	48	45	39

PRELIMINARY TEST IV, 2016

PLANT HEIGHT (inches)

Strain	Ottawa KS	Novelty MO	Portageville Clay MO	Jack- son TN
LD06-7620 (IV)	37	38	34	28
LD00-2817P (L)	45	47	39	34
LD07-3395bf (SCN)	35	38	33	28
DSN11-03148	44	51	41	38
DSN11-04129	37	38	34	28
JTN-4116	45	46	38	37
K14-1269	42	50	37	35
K14-1347	44	47	39	35
K14-1357	41	43	38	32
K14-1358	45	44	40	32
K14-1387	41	45	41	34
K14-1401	38	41	36	31
K14-1468	46	47	42	36
K14-1486	39	40	34	25
K14-1493	46	46	40	38
LG13-3576	46	47	40	38
LG13-3622	45	46	41	35
LG13-3729	46	47	41	41
LG13-3895	46	49	43	34
LG13-3971	45	45	41	36
LG13-3992	42	45	40	32
LG13-4025	44	44	42	33
LG14-6169	43	45	36	32
LG14-7959	44	44	40	36
LG14-7965	45	49	41	38
LG14-8024	44	43	38	33
SA13-5761	39	41	35	28

PRELIMINARY TEST IV, 2016

SEED SIZE (g/100)

Strain	Mean 8 Tests	Urbana IL	West Lafayette IN	Man- hattan KS	Onaga KS
LD06-7620 (IV)	15.4	15.0	15.5	17.3	15.5
LD00-2817P (L)	14.3	14.5	15.9	17.6	13.1
LD07-3395bf (SCN)	16.5	15.9	17.7	19.3	15.6
DSN11-03148	19.5	20.7	21.0	19.7	18.7
DSN11-04129	16.4	17.2	16.2	19.2	16.7
JTN-4116	17.0	17.9	18.7	20.4	16.1
K14-1269	16.1	17.1	19.0	17.9	13.2
K14-1347	15.0	15.9	16.4	16.3	14.3
K14-1357	15.6	15.7	16.4	17.4	15.2
K14-1358	16.0	16.7	17.0	18.4	14.2
K14-1387	12.9	13.3	15.6	16.2	13.6
K14-1401	15.2	16.2	16.8	17.2	14.4
K14-1468	14.4	14.7	15.5	16.7	13.7
K14-1486	14.9	15.0	15.7	19.0	14.1
K14-1493	13.9	14.1	14.2	16.2	13.5
LG13-3576	17.5	18.6	19.8	17.4	17.1
LG13-3622	15.3	16.6	17.7	16.1	12.7
LG13-3729	12.4	13.7	11.2	13.6	12.8
LG13-3895	14.9	16.2	15.2	13.3	15.0
LG13-3971	15.8	16.6	17.7	16.2	14.6
LG13-3992	19.2	19.7	21.0	19.7	18.2
LG13-4025	16.2	17.6	18.1	16.6	15.3
LG14-6169	17.3	19.2	18.3	17.5	16.1
LG14-7959	14.4	15.3	15.7	14.6	14.3
LG14-7965	13.8	14.4	14.8	13.0	13.5
LG14-8024	17.1	19.7	19.7	17.9	16.9
SA13-5761	15.8	16.4	16.7	16.2	14.4

PRELIMINARY TEST IV, 2016

SEED SIZE (g/100)

Strain	Ottawa KS	Novelty MO	Portageville Clay MO	Jackson TN
LD06-7620 (IV)	17.1	16.8	13.7	12.3
LD00-2817P (L)	15.9	14.1	11.1	12.0
LD07-3395bf (SCN)	18.8	16.9	13.9	13.6
DSN11-03148	22.3	20.3	17.2	15.9
DSN11-04129	19.4	13.8	14.3	14.4
JTN-4116	17.9	16.2	14.7	14.2
K14-1269	15.8	17.6	13.5	14.5
K14-1347	16.7	15.5	12.9	12.3
K14-1357	15.9	17.7	13.2	13.1
K14-1358	17.0	17.4	14.1	13.5
K14-1387	13.2	10.1	10.3	10.6
K14-1401	15.8	14.4	13.3	13.5
K14-1468	16.7	13.5	12.1	12.5
K14-1486	16.7	13.5	12.9	12.2
K14-1493	15.6	12.1	12.6	13.0
LG13-3576	18.5	17.9	15.5	15.0
LG13-3622	16.9	14.9	14.6	13.1
LG13-3729	14.5	10.3	11.3	11.6
LG13-3895	17.4	15.4	13.7	13.1
LG13-3971	17.9	15.5	13.9	14.1
LG13-3992	21.7	19.5	16.8	17.3
LG13-4025	18.0	15.3	13.6	14.9
LG14-6169	19.1	17.6	15.4	15.5
LG14-7959	15.5	15.1	11.8	12.5
LG14-7965	17.1	14.1	11.2	12.0
LG14-8024	19.5	12.8	15.2	15.2
SA13-5761	18.1	16.2	14.0	14.1

PRELIMINARY TEST IV, 2016

SEED QUALITY (score)

Strain	Mean 8 Tests	Urbana IL	West Lafayette IN	Man- hattan KS	Onaga KS
LD06-7620 (IV)	2.1	2.0	1.0	3.0	3.0
LD00-2817P (L)	2.5	2.0	1.0	4.0	3.0
LD07-3395bf (SCN)	2.4	2.0	1.0	3.0	3.0
DSN11-03148	2.2	2.0	1.0	3.0	3.0
DSN11-04129	1.9	2.0	1.0	2.0	3.0
JTN-4116	2.0	2.0	1.0	2.0	3.0
K14-1269	2.6	2.0	2.0	4.0	3.0
K14-1347	2.3	2.0	1.5	2.0	3.0
K14-1357	1.9	2.0	1.0	3.0	3.0
K14-1358	2.1	2.0	1.0	3.0	3.0
K14-1387	2.0	2.0	1.0	3.0	3.0
K14-1401	1.9	2.0	1.0	3.0	3.0
K14-1468	1.9	1.0	1.5	2.0	3.0
K14-1486	2.4	2.0	2.0	3.0	3.0
K14-1493	1.9	1.0	1.0	2.0	3.0
LG13-3576	2.3	2.0	1.0	3.0	3.0
LG13-3622	1.7	1.0	1.0	2.0	3.0
LG13-3729	1.8	2.0	1.0	1.0	3.0
LG13-3895	2.2	1.0	1.5	3.0	3.0
LG13-3971	2.3	2.0	1.0	2.0	3.0
LG13-3992	2.7	2.0	2.0	3.0	4.0
LG13-4025	2.4	2.0	1.5	3.0	3.0
LG14-6169	2.3	2.0	1.0	3.0	3.0
LG14-7959	2.0	2.0	1.0	2.0	3.0
LG14-7965	1.9	2.0	1.0	2.0	3.0
LG14-8024	2.3	2.0	2.0	3.0	3.0
SA13-5761	2.4	2.0	1.0	3.0	3.0

PRELIMINARY TEST IV, 2016

SEED QUALITY (score)

Strain	Ottawa KS	Novelty MO	Portageville Clay MO	Jack- son TN
LD06-7620 (IV)	2.0	1.5	1.5	2.5
LD00-2817P (L)	3.0	1.8	2.0	3.0
LD07-3395bf (SCN)	3.0	2.3	1.5	3.0
DSN11-03148	3.0	1.8	1.5	2.5
DSN11-04129	2.0	1.8	1.5	2.0
JTN-4116	3.0	1.8	1.0	2.0
K14-1269	3.0	1.5	2.5	2.5
K14-1347	3.0	2.0	2.5	2.5
K14-1357	2.0	1.5	1.0	2.0
K14-1358	3.0	1.5	1.5	2.0
K14-1387	2.0	1.0	2.0	2.0
K14-1401	2.0	1.3	1.0	2.0
K14-1468	2.0	1.3	2.5	2.0
K14-1486	3.0	1.8	2.0	2.5
K14-1493	2.0	2.0	2.5	2.0
LG13-3576	2.0	2.0	2.0	3.0
LG13-3622	2.0	1.5	1.0	2.0
LG13-3729	2.0	2.0	1.5	2.0
LG13-3895	3.0	1.8	2.0	2.0
LG13-3971	3.0	2.5	2.0	3.0
LG13-3992	3.0	1.5	3.0	3.0
LG13-4025	3.0	2.0	2.5	2.5
LG14-6169	3.0	2.0	1.5	2.5
LG14-7959	2.0	2.3	2.0	2.0
LG14-7965	3.0	1.0	1.5	2.0
LG14-8024	2.0	1.3	2.5	2.5
SA13-5761	3.0	2.0	2.0	3.2

PRELIMINARY TEST IV, 2016

PROTEIN (%)

Strain	Mean 3 Tests	Urbana IL	West Lafayette IN	Jackson TN
LD06-7620 (IV)	34.9	35.0	34.8	34.8
LD00-2817P (L)	34.3	34.2	34.5	34.1
LD07-3395bf (SCN)	33.6	33.7	33.4	33.7
DSN11-03148	33.6	33.5	33.8	33.6
DSN11-04129	35.0	34.8	35.3	34.9
JTN-4116	36.7	37.2	36.9	36.0
K14-1269	35.4	35.6	35.4	35.2
K14-1347	34.6	35.2	34.6	34.0
K14-1357	36.1	36.4	36.0	35.9
K14-1358	35.5	35.6	35.4	35.5
K14-1387	35.2	36.2	35.1	34.3
K14-1401	36.2	36.6	35.8	36.1
K14-1468	35.3	36.3	35.4	34.2
K14-1486	35.7	35.9	36.3	34.8
K14-1493	35.0	35.9	34.2	34.8
LG13-3576	35.8	36.4	35.2	35.9
LG13-3622	35.9	36.4	36.1	35.2
LG13-3729	35.5	35.4	35.0	36.2
LG13-3895	34.9	34.9	34.6	35.2
LG13-3971	35.3	35.4	34.9	35.5
LG13-3992	35.5	35.3	35.9	35.4
LG13-4025	35.5	35.4	35.5	35.7
LG14-6169	35.2	35.5	35.1	34.9
LG14-7959	35.3	35.7	35.1	35.0
LG14-7965	35.4	36.2	35.4	34.6
LG14-8024	35.6	35.8	35.4	35.7
SA13-5761	34.6	35.0	34.1	34.7

PRELIMINARY TEST IV, 2016

OIL (%)

Strain	Mean 3 Tests	Urbana IL	West Lafayette IN	Jackson TN
LD06-7620 (IV)	19.3	18.7	19.0	20.2
LD00-2817P (L)	19.9	19.6	19.8	20.3
LD07-3395bf (SCN)	20.7	20.2	20.5	21.4
DSN11-03148	20.8	20.2	20.3	21.8
DSN11-04129	19.4	18.9	19.3	20.1
JTN-4116	19.6	19.4	19.4	20.1
K14-1269	19.7	18.8	19.4	20.9
K14-1347	19.6	18.8	19.2	20.9
K14-1357	18.3	17.1	18.0	19.7
K14-1358	18.9	18.0	18.5	20.2
K14-1387	18.9	17.6	18.8	20.4
K14-1401	19.8	19.0	19.3	20.9
K14-1468	20.3	19.1	19.9	21.9
K14-1486	20.0	19.5	19.4	21.2
K14-1493	20.1	19.3	20.0	20.9
LG13-3576	19.8	19.6	19.8	20.0
LG13-3622	19.5	18.9	19.3	20.2
LG13-3729	18.7	18.5	18.1	19.6
LG13-3895	19.4	18.9	19.1	20.1
LG13-3971	19.6	19.1	19.6	20.3
LG13-3992	20.1	19.7	19.6	20.9
LG13-4025	20.1	19.7	20.1	20.4
LG14-6169	20.1	19.7	19.9	20.8
LG14-7959	19.9	19.2	19.6	20.8
LG14-7965	20.0	19.2	19.5	21.3
LG14-8024	19.7	19.4	19.6	20.2
SA13-5761	20.5	19.5	20.4	21.7

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UNIFORM TEST 00 Roundup-Ready, 2016

Ent.	Strain	Parentage	Seed Source	Previous Testing	Gen. Comp.	Unique Traits
1	AG00632 (00)		Monsanto	1		SCN
2	AG00133		Monsanto	1		
3	AG00932		Monsanto	1		
4	ND12-21598	OAC07-26C x RG607RR	Helms	1	F3	RR1
5	ND12-24081	RG200RR x ND07-18569	Helms	1	F3	RR1
6	ND13-17129	RG200RR x ND08-7047	Helms		F3	
7	ND13-18800	ND03-7566 x RG200RR	Helms		F3	
8	ND13-20583	ND05-17855 x [Ashtabula x RG607RR]	Helms		F3	
9	ND13-20590	ND05-17855 x [Ashtabula x RG607RR]	Helms		F3	
10	ND13-21779	ND07-4050 x [RG7008RR x Sheyenne]	Helms		F3	

UNIFORM TEST 00 ROUNDUP READY, 2016

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	IDC Score		Shattering Score
		Crooks-ton	Moore-head	Manhattan
AG00632 (00)	PGBIYBI	1.0	1.0	4.0
AG00133	PGBDYDibI	2.5	2.5	3.0
AG00932	PGBDYDibI	1.3	1.3	2.0
ND12-21598	PTBSYBI	3.5	3.5	2.0
ND12-24081	PTBIYBrI	1.8	1.8	5.0
ND13-17129	PTBSYGI	2.5	2.5	5.0
ND13-18800	P+WGBSYYI	1.5	1.5	5.0
ND13-20583	PGTSYBf+GI	3.3	3.3	5.0
ND13-20590	PGTIYDbfI	4.5	4.5	5.0
ND13-21779	PTBSYY+BrI	4.0	4.0	5.0

UNIFORM TEST 00 ROUNDUP READY, 2016

REGIONAL SUMMARY

No. of Tests Strain	Yield	Rank	Maturity	Lodging	Plant	Seed	Seed	Composition	
	4 bu/a	4 No.	4 Date	3 Score	Height 3 In	Size 3 g/100	Quality 3 Score	Protein 3 %	Oil 3 %
AG00632 (00)	58.2	6	9/9	1.0	32	18.5	2.2	36.3	19.0
AG00133	50.6	10	-4.3	1.0	27	18.7	1.9	36.2	19.2
AG00932	59.9	4	7.0	1.0	33	15.8	1.7	35.6	18.7
ND12-21598	65.8	1	4.4	1.1	31	18.4	1.7	38.2	19.1
ND12-24081	56.7	9	-1.3	1.0	28	14.6	1.7	36.5	19.3
ND13-17129	56.9	8	-0.2	1.0	29	15.0	1.7	37.0	18.3
ND13-18800	57.9	7	4.6	1.0	31	14.8	1.7	37.5	18.8
ND13-20583	61.8	3	3.0	1.0	33	14.7	1.7	35.7	19.1
ND13-20590	64.2	2	5.8	1.1	32	14.0	1.7	35.9	19.1
ND13-21779	59.0	5	5.0	1.0	24	16.8	2.0	36.1	19.8
Mean	59.0			1.0	30.0	16.1	1.8		
C.V. (%)	13.1			17.9	8.0	4.4	14.8		
L.S.D. (5%)	6.3			0.2	2.3	0.7	0.2		

118.3 Days After Planting

UNIFORM TEST 00 ROUNDUP READY, 2016

2015-2016 2-Year Mean

No. of Tests Strain	Yield	Rank	Maturity	Lodging	Plant	Seed	Seed	Composition	
	7 bu/a	7 No.	8 Date	6 Score	Height 5 In.	Size 6 g/100	Quality 6 Score	Protein 6 %	Oil 6 %
AG0632 (00)	56.6	3	9/20	1.0	30	17.9	2.1	36.4	20.1
AG0133 (E)	49.3	5	-4.1	1.0	24	17.9	1.8	37.1	20.7
AG0932	56.8	2	7.0	1.0	31	15.1	1.7	36.3	19.9
ND12-21598	62.3	1	5.4	1.1	30	16.7	1.8	38.3	20.7
ND12-24081	53.2	4	-0.2	1.0	27	14.1	1.7	36.5	20.7

114.7 Days After Planting

UNIFORM TEST 00 ROUNDUP READY, 2016

YIELD (bu/a)

Strain	Mean 4 Tests	Crook- ston MN	Moor- head MN	North- wood ND	La Pocatiere QUE
AG00632 (00)	58.2	58.5	40.7	54.7	79.0
AG00133	50.6	55.9	32.3	53.3	61.0
AG00932	59.9	71.5	58.8	31.6	77.5
ND12-21598	65.8	76.6	46.7	60.0	79.8
ND12-24081	56.7	61.4	40.5	55.8	69.1
ND13-17129	56.9	57.7	51.3	48.5	70.2
ND13-18800	57.9	56.4	49.2	53.9	72.2
ND13-20583	61.8	61.5	52.8	56.7	76.0
ND13-20590	64.2	65.6	54.3	59.7	77.2
ND13-21779	59.0	65.7	40.5	59.7	70.0
Location Mean		63.1	46.7	53.4	73.2
C.V. (%)		11.5	14.5	6.4	3.2
L.S.D. (5%)		12.8	11.6	5.6	4.0
Row Sp. (In.)		12	10	30	7
Rows/Plot		8	8	4	8
Reps		3	3	3	3

UNIFORM TEST 00 ROUNDUP READY, 2016

YIELD RANK

Strain	Yield Rank	Crook-ston MN	Moor-head MN	North-wood ND	La Pocatiere QUE
AG00632 (00)	6	7	7	6	2
AG00133	10	10	10	8	10
AG00932	4	2	1	10	3
ND12-21598	1	1	6	1	1
ND12-24081	9	6	8	5	9
ND13-17129	8	8	4	9	7
ND13-18800	7	9	5	7	6
ND13-20583	3	5	3	4	5
ND13-20590	2	4	2	2	4
ND13-21779	5	3	9	2	8

UNIFORM TEST 00 ROUNDUP READY, 2016

MATURITY (date)

Strain	Mean 4 Tests	Crook-ston MN	Moor-head MN	North-wood ND	La Pocatiere QUE
AG00632 (00)	9/9	9/4	9/8	9/8	9/16
AG00133	-4	-3	-2	-6	-6
AG00932	7	10	7	1	10
ND12-21598	4	11	7	1	-2
ND12-24081	-1	-0	1	1	-7
ND13-17129	-0	6	1	-3	-5
ND13-18800	5	9	5	-3	7
ND13-20583	3	9	3	3	-3
ND13-20590	6	12	4	5	2
ND13-21779	5	6	3	4	7
Date Planted	5/13	5/11	5/13	5/6	5/25
Days to Mature	118.3	116	118	125	114

UNIFORM TEST 00 ROUNDUP READY, 2016

LODGING (score)

Strain	Mean 3 Tests	Crook- ston MN	Moor- head MN	North- wood ND	La Pocatiere QUE
AG00632 (00)	1.0	1.0	1.0	1.0	
AG00133	1.0	1.0	1.0	1.0	
AG00932	1.0	1.0	1.0	1.0	
ND12-21598	1.1	1.0	1.0	1.3	
ND12-24081	1.0	1.0	1.0	1.0	
ND13-17129	1.0	1.0	1.0	1.0	
ND13-18800	1.0	1.0	1.0	1.0	
ND13-20583	1.0	1.0	1.0	1.0	
ND13-20590	1.1	1.0	1.0	1.3	
ND13-21779	1.0	1.0	1.0	1.0	

UNIFORM TEST 00 ROUNDUP READY, 2016

PLANT HEIGHT (inches)

Strain	Mean 3 Tests	Crook- ston MN	Moor- head MN	North- wood ND	La Pocatiere QUE
AG00632 (00)	32	35	31		30
AG00133	27	29	28		23
AG00932	33	35	36		30
ND12-21598	31	36	29		28
ND12-24081	28	33	27		25
ND13-17129	29	31	29		26
ND13-18800	31	34	30		28
ND13-20583	33	34	33		30
ND13-20590	32	35	32		30
ND13-21779	24	24	25		25

UNIFORM TEST 00 ROUNDUP READY, 2016

SEED SIZE (g/100)

Strain	Mean 3 Tests	Crook- ston MN	Moor- head MN	North- wood ND	La Pocatiere QUE
AG00632 (00)	18.5	17.6	18.6		19.5
AG00133	18.7	18.1	19.0		19.1
AG00932	15.8	15.8	16.0		15.5
ND12-21598	18.4	18.7	18.1		18.3
ND12-24081	14.6	14.2	14.5		15.2
ND13-17129	15.0	15.4	14.4		15.1
ND13-18800	14.8	14.4	14.9		14.9
ND13-20583	14.7	15.2	14.9		14.0
ND13-20590	14.0	14.6	14.3		13.2
ND13-21779	16.8	16.6	17.2		16.8

UNIFORM TEST 00 ROUNDUP READY, 2016

SEED QUALITY (score)

Strain	Mean 3 Tests	Crook- ston MN	Moor- head MN	North- wood ND	La Pocatiere QUE
AG00632 (00)	2.2	1.7	2.0		3.0
AG00133	1.9	1.7	1.0		3.0
AG00932	1.7	1.0	1.0		3.0
ND12-21598	1.7	1.0	1.0		3.0
ND12-24081	1.7	1.0	1.0		3.0
ND13-17129	1.7	1.0	1.0		3.0
ND13-18800	1.7	1.0	1.0		3.0
ND13-20583	1.7	1.0	1.0		3.0
ND13-20590	1.7	1.0	1.0		3.0
ND13-21779	2.0	1.0	2.0		3.0

UNIFORM TEST 00 ROUNDUP READY, 2016

PROTEIN (%)

Strain	Mean 3 Tests	Crookston MN	Moorehead MN	La Pocatiere QUE
AG00632 (00)	36.3	33.7	34.6	40.5
AG00133	36.2	33.8	34.0	40.8
AG00932	35.6	33.0	34.0	39.8
ND12-21598	38.2	36.4	36.1	42.1
ND12-24081	36.5	34.3	34.4	40.7
ND13-17129	37.0	35.7	34.9	40.5
ND13-18800	37.5	35.9	35.3	41.2
ND13-20583	35.7	34.1	33.8	39.2
ND13-20590	35.9	34.2	34.0	39.6
ND13-21779	36.1	34.2	33.7	40.5

UNIFORM TEST 00, 2016

OIL (%)

Strain	Mean 3 Tests	Crookston MN	Moorehead MN	La Pocatiere QUE
AG00632 (00)	19.0	18.9	19.2	18.9
AG00133	19.2	19.3	19.6	18.6
AG00932	18.7	18.6	18.8	18.7
ND12-21598	19.1	18.6	19.3	19.5
ND12-24081	19.3	18.8	19.5	19.5
ND13-17129	18.3	18.0	18.7	18.3
ND13-18800	18.8	18.3	19.0	19.0
ND13-20583	19.1	18.8	19.2	19.4
ND13-20590	19.1	18.7	19.3	19.4
ND13-21779	19.8	19.5	20.1	19.7

UNIFORM TEST 0 Roundup-Ready, 2016

Ent. Strain	Parentage	Seed Source	Previous Testing	Gen. Comp.	Unique Traits
1 AG0532 (O)		Monsanto	4		
2 AG0231 (E)		Monsanto	4		
3 AG0832		Monsanto	5		
4 AG1234		Monsanto	1		
5 M09-876012	MN1701CN x MN1410BC2R2F2-4	Lorenz	2	F5	R2CN
6 M09-876048	MN1701CN x MN1410BC2R2F2-4	Lorenz	2	F5	R2CN
7 M09-878011	MN1410 x MN1410BC2R2F2-4	Lorenz	2	F5	R2YLD
8 M09-878087	MN1410 x MN1410BC2R2F2-4	Lorenz	2	F5	R2YLD
9 M09-956021	MN1410 x MN1410BC2R2F3	Lorenz	1	F5	RR2
10 M09-957051	MN1701CN x MN1410BC2R2F3	Lorenz	1	F5	RR2CN
11 MN1410R2F5-83	MN1410*3 x R2 From Monsanto R2BC2	Lorenz	3	F5	R2
12 MN1410R2F5-121	MN1410*3 x R2 From Monsanto R2BC2	Lorenz	3	F5	R2
13 ND13-17680	ND05-17835 x [OAC06-20 x RG7008RR]	Helms		F3	
14 ND13-18960	ND07-4069 x [RG405RR x Ashtabula]	Helms		F3	
15 ND13-20504	ND07-4635 x [Ashtabula x (RG7008RR x Sheyenne)]	Helms		F3	
16 ND13-20529	ND05-17855 x [Ashtabula x RG607RR]	Helms		F3	
17 ND13-21879	ND07-4050 x [RG7008RR x Sheyenne]	Helms		F3	
18 ND13-22401	ND07-4635 x [RG7008RR x ND03-5441]	Helms		F3	
19 ND13-22802	ND07-4635 x [OAC06-20 x RG7008RR]	Helms		F3	
20 ND13-22866	ND07-4635 x [OAC06-20 x RG7008RR]	Helms		F3	

UNIFORM TEST 0 ROUNDUP READY, 2016

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	IDC Score		Shattering Score
		Morris	Rose-mount	Man-hattan
AG0532 (0)	PTBIYDbrI	2.0	2.0	4.0
AG0231 (E)	PTBSYBI	2.5	2.5	4.0
AG0832	PT+GBDYBrI	3.0	3.0	3.0
AG1234	PGTSYDibI	3.5	3.5	4.0
M09-876012	WGTIYBf+GI	3.0	3.0	4.0
M09-876048	P+WT+GTIYGI	4.0	4.0	2.0
M09-878011	PGBIYDbfI	3.5	3.5	3.0
M09-878087	PGBIYDbfI	3.5	3.5	2.0
M09-956021	PGBIYDbf+YI	4.5	4.5	5.0
M09-957051	WT+GTDYY+G+B+LbrI	4.0	4.0	3.0
MN1410R2F5-121	PGTIYDbfI	4.5	4.5	3.0
MN1410R2F5-83	WGTIYLbfI	3.5	3.5	3.0
ND13-17680	PLtBDYB+Lb+DibI	5.0	5.0	3.0
ND13-18960	P+WGTSYLbfI	4.0	4.0	3.0
ND13-20504	PLt+GTSYLb+YI	3.5	3.5	2.0
ND13-20529	PGTSYLbfI	3.5	3.5	5.0
ND13-21879	WGTSYYI	4.0	4.0	2.0
ND13-22401	PGBSYI+BfI	4.5	4.5	3.0
ND13-22802	WGTIYYI	5.0	5.0	5.0
ND13-22866	P+WGB+TIYY+LbI	3.5	3.5	3.0

UNIFORM TEST 0 ROUNDUP READY, 2016

REGIONAL SUMMARY

No. of Tests Strain	Yield 4 bu/a	Rank 4 No.	Maturity 4 Date	Lodging 3 Score	Plant Height 3 In.	Seed Size 4 g/100	Seed Quality 3 Score	Composition	
								Protein 4 %	Oil 4 %
AG0532 (0)	52.4	11	9/15	1.1	29	17.1	1.0	36.1	18.3
AG0231 (E)	48.3	16	-5.8	1.3	31	18.4	1.4	36.6	18.7
AG0832	55.2	7	4.3	1.5	35	18.4	1.1	36.8	18.9
AG1234	64.7	1	5.8	1.7	36	16.4	1.0	36.3	18.5
M09-876012	52.8	10	7.8	2.3	34	16.5	1.0	37.3	18.4
M09-876048	63.4	2	5.0	2.2	33	16.7	1.3	36.0	18.9
M09-878011	53.5	8	4.7	2.1	33	18.3	1.2	38.1	18.5
M09-878087	57.0	5	4.0	2.1	33	18.2	1.0	37.0	19.1
M09-956021	57.1	4	5.9	2.4	35	15.9	1.1	37.3	18.6
M09-957051	56.2	6	7.9	2.2	36	16.7	1.1	36.7	18.6
MN1410R2F5-83	53.4	9	-4.0	2.0	35	16.8	1.2	38.6	18.2
MN1410R2F5-121	59.3	3	6.5	2.2	35	16.7	1.0	37.7	18.4
ND13-17680	49.0	14	1.7	1.7	32	19.4	1.2	36.1	19.0
ND13-18960	48.8	15	1.4	1.3	35	18.2	1.9	36.5	19.7
ND13-20504	52.3	12	7.3	2.5	36	17.2	1.4	36.5	19.1
ND13-20529	44.5	19	-4.1	1.9	33	17.3	1.9	35.2	19.7
ND13-21879	46.6	18	-2.7	1.5	32	16.8	1.9	35.3	19.7
ND13-22401	40.6	20	-3.6	1.9	30	14.5	1.6	37.6	18.0
ND13-22802	51.5	13	0.8	2.2	35	17.2	1.4	35.8	19.3
ND13-22866	46.7	17	-0.3	1.4	33	17.0	1.2	36.3	18.9
Mean	52.4			1.9	33.5	1.3	17.3		
C.V. (%)	14.0			27.6	8.9	29.8	5.1		
L.S.D. (5%)	5.9			0.5	2.8	0.4	0.8		

121.5 Days After Planting

UNIFORM TEST 0 ROUNDUP READY, 2016

2015-2016 2-Year Mean

No. of Tests Strain	Yield 9 bu/a	Rank 9 No.	Maturity 9 Date	Lodging 8 Score	Plant Height 7 In.	Seed Size 8 g/100	Seed Quality 7 Score	Composition	
								Protein 8 %	Oil 8 %
AG0532 (0)	46.1	12	9/20	1.1	29	16.9	1.3	37.7	19.4
AG0231 (E)	49.2	11	-6.2	1.3	31	18.0	1.5	37.0	19.8
AG0832	58.1	5	0.9	1.5	34	18.2	1.4	38.0	19.8
AG1234	61.6	2	1.9	1.6	36	15.7	1.4	37.2	19.5
M09-876012	56.1	10	3.0	2.5	35	15.3	1.5	38.1	19.4
M09-876048	62.7	1	2.0	2.0	33	16.3	1.7	36.7	19.8
M09-878011	56.3	9	1.3	1.9	34	17.8	1.6	38.5	19.3
M09-878087	57.9	6	0.6	2.1	33	17.7	1.4	37.6	20.1
M09-956021	58.2	4	4.1	2.2	35	16.1	1.6	37.9	19.6
M09-957051	57.7	7	3.8	2.0	36	16.1	1.7	37.7	19.4
MN1410R2F5-83	59.4	3	0.1	2.1	33	16.3	1.6	39.3	18.7
MN1410R2F5-121	57.4	8	-2.0	2.0	36	16.0	1.5	39.5	19.1

122.4 Days After Planting

2014-2016 3-Year Mean

No. of Tests Strain	14	14	14	13	9	12	9	12	12
AG0532 (0)	47.5		9/20	1.0	29	16.8	1.4	36.3	18.9
AG0231 (E)	48.5		-5.4	1.2	31	17.9	1.7	35.9	19.3
AG0832	57.9		2.2	1.4	34	18.2	1.6	36.8	19.3
MN1410R2F5-83	58.9		3.0	2.4	35	15.0	1.6	37.3	18.6
MN1410R2F5-121	57.8		-0.6	1.8	32	16.1	1.7	36.7	19.1

119.9 Days After Planting

UNIFORM TEST 0 ROUNDUP READY, 2016

YIELD (bu/a)

Strain	Mean 4 Tests	Morris MN	Rose- mount MN	Casselton ND	Saint Hyacinthe QUE
AG0532 (O)	52.4	51.1	44.1	48.9	65.3
AG0231 (E)	48.3	44.5	45.3	45.2	58.4
AG0832	55.2	40.0	48.1	61.4	71.4
AG1234	64.7	59.6	53.5	68.6	77.0
M09-876012	52.8	56.0	54.4	38.0	62.7
M09-876048	63.4	60.1	56.4	65.4	71.8
M09-878011	53.5	42.1	48.6	54.9	68.4
M09-878087	57.0	51.9	48.0	55.1	73.1
M09-956021	57.1	56.3	51.8	55.1	65.1
M09-957051	56.2	50.7	53.9	54.5	65.7
MN1410R2F5-83	53.4	45.9	43.7	59.2	64.7
MN1410R2F5-121	59.3	58.1	47.3	58.8	72.9
ND13-17680	49.0	43.7	41.1	51.7	59.5
ND13-18960	48.8	42.5	39.0	44.2	69.5
ND13-20504	52.3	50.0	47.0	47.2	65.1
ND13-20529	44.5	38.7	38.9	43.1	57.4
ND13-21879	46.6	33.4	45.3	50.1	57.5
ND13-22401	40.6	37.8	38.9	36.1	49.7
ND13-22802	51.5	43.7	42.2	62.4	57.7
ND13-22866	46.7	44.8	43.8	38.5	59.6
Location Mean		47.6	46.6	51.9	64.6
C.V. (%)		13.8	11.4	16.9	6.0
L.S.D. (5%)		11.3	8.8	14.0	6.4
Row Sp. (In.)		30	30	30	14
Rows/Plot		4	4	4	4
Reps		3	3	3	3

UNIFORM TEST 0 ROUNDUP READY, 2016

YIELD RANK

Strain	Yield Rank	Morris MN	Rose-mount MN	Casselton ND	Saint Hyacinthe QUE
AG0532 (O)	11	7	13	13	9
AG0231 (E)	16	12	12	15	16
AG0832	7	17	7	4	5
AG1234	1	2	4	1	1
M09-876012	10	5	2	19	13
M09-876048	2	1	1	2	4
M09-878011	8	16	6	9	7
M09-878087	5	6	8	7	2
M09-956021	4	4	5	7	10
M09-957051	6	8	3	10	8
MN1410R2F5-83	9	10	15	5	12
MN1410R2F5-121	3	3	9	6	3
ND13-17680	14	14	17	11	15
ND13-18960	15	15	18	16	6
ND13-20504	12	9	10	14	10
ND13-20529	19	18	19	17	19
ND13-21879	18	20	11	12	18
ND13-22401	20	19	20	20	20
ND13-22802	13	13	16	3	17
ND13-22866	17	11	14	18	14

UNIFORM TEST 0 ROUNDUP READY, 2016

MATURITY (date)

Strain	Mean 4 Tests	Morris MN	Rose-mount MN	Casselton ND	Saint Hyacinthe QUE
AG0532 (O)	9/15	9/8	9/17	9/17	9/18
AG0231 (E)	-6	-4	-9	-4	-6
AG0832	4	5	0	8	4
AG1234	6	9	2	9	3
M09-876012	8	9	3	14	5
M09-876048	5	8	3	6	3
M09-878011	5	3	1	13	1
M09-878087	4	4	2	9	1
M09-956021	6	9	5	9	1
M09-957051	8	9	7	14	2
MN1410R2F5-83	-4	-2	-11	0	-3
MN1410R2F5-121	7	6	4	12	4
ND13-17680	2	1	-1	9	-2
ND13-18960	1	-1	0	5	1
ND13-20504	7	6	3	15	5
ND13-20529	-4	-2	-10	-3	-2
ND13-21879	-3	-4	-4	0	-3
ND13-22401	-4	-2	-8	0	-5
ND13-22802	1	-0	-3	6	0
ND13-22866	-0	-0	-2	4	-3
Date Planted	5/16	5/10	5/31	5/5	5/20
Days to Mature	122	121	109	135	121

UNIFORM TEST 0 ROUNDUP READY, 2016

LODGING (score)

Strain	Mean 3 Tests	Morris MN	Rose- mount MN	Casselton ND	Saint Hyacinthe QUE
AG0532 (O)	1.1		1.3	1.0	1.0
AG0231 (E)	1.3		2.0	1.0	1.0
AG0832	1.5		2.3	1.0	1.3
AG1234	1.7		3.0	1.0	1.0
M09-876012	2.3		4.0	1.0	2.0
M09-876048	2.2		3.3	1.0	2.3
M09-878011	2.1		3.0	1.0	2.3
M09-878087	2.1		3.0	1.0	2.3
M09-956021	2.4		3.3	1.0	3.0
M09-957051	2.2		3.7	1.0	2.0
MN1410R2F5-83	2.0		3.0	1.0	2.0
MN1410R2F5-121	2.2		3.3	1.0	2.3
ND13-17680	1.7		2.3	1.0	1.7
ND13-18960	1.3		2.0	1.0	1.0
ND13-20504	2.5		3.7	1.0	2.7
ND13-20529	1.9		2.3	1.0	2.3
ND13-21879	1.5		2.3	1.0	1.3
ND13-22401	1.9		2.7	1.0	2.0
ND13-22802	2.2		3.3	1.0	2.3
ND13-22866	1.4		2.0	1.0	1.3

UNIFORM TEST 0 ROUNDUP READY, 2016

PLANT HEIGHT (inches)

Strain	Mean 3 Tests	Morris MN	Rose- mount MN	Casselton ND	Saint Hyacinthe QUE
AG0532 (O)	29		28	25	34
AG0231 (E)	31		32	24	37
AG0832	35		35	33	37
AG1234	36		36	35	38
M09-876012	34		37	26	39
M09-876048	33		30	31	38
M09-878011	33		33	29	38
M09-878087	33		32	29	38
M09-956021	35		35	29	41
M09-957051	36		40	30	39
MN1410R2F5-83	35		32	35	39
MN1410R2F5-121	35		34	32	38
ND13-17680	32		30	29	36
ND13-18960	35		36	27	42
ND13-20504	36		37	30	42
ND13-20529	33		35	27	39
ND13-21879	32		34	27	34
ND13-22401	30		32	23	34
ND13-22802	35		35	29	41
ND13-22866	33		33	26	39

UNIFORM TEST 0 ROUNDUP READY, 2016

SEED SIZE (g/100)

Strain	Mean 4 Tests	Morris MN	Rose- mount MN	Casselton ND	Saint Hyacinthe QUE
AG0532 (O)	17.1	16.4	15.6	17.1	19.4
AG0231 (E)	18.4	17.6	17.8	18.4	19.7
AG0832	18.4	17.1	17.9	17.6	21.0
AG1234	16.4	15.9	15.3	16.3	18.0
M09-876012	16.5	15.8	15.2	14.6	20.5
M09-876048	16.7	16.4	15.8	16.7	18.1
M09-878011	18.3	17.1	17.4	18.9	19.9
M09-878087	18.2	17.8	17.2	17.5	20.5
M09-956021	15.9	17.3	16.7	13.2	16.5
M09-957051	16.7	16.6	17.0	14.8	18.3
MN1410R2F5-83	16.8	15.8	15.3	16.9	19.1
MN1410R2F5-121	16.7	16.3	16.6	14.2	19.7
ND13-17680	19.4	18.0	18.7	18.3	22.4
ND13-18960	18.2	17.3	16.8	17.7	20.8
ND13-20504	17.2	16.3	16.6	15.7	20.3
ND13-20529	17.3	16.3	16.6	17.1	19.1
ND13-21879	16.8	15.5	15.3	16.5	20.0
ND13-22401	14.5	14.2	13.9	13.9	16.0
ND13-22802	17.2	17.3	15.6	16.2	19.7
ND13-22866	17.0	16.6	16.0	16.2	19.3

UNIFORM TEST 0 ROUNDUP READY, 2016

SEED QUALITY (score)

Strain	Mean 3 Tests	Morris MN	Rose- mount MN	Casselton ND	Saint Hyacinthe QUE
AG0532 (O)	1.0	1.0	1.0	1.0	
AG0231 (E)	1.4	1.3	2.0	1.0	
AG0832	1.1	1.0	1.3	1.0	
AG1234	1.0	1.0	1.0	1.0	
M09-876012	1.0	1.0	1.0	1.0	
M09-876048	1.3	1.0	2.0	1.0	
M09-878011	1.2	1.0	1.7	1.0	
M09-878087	1.0	1.0	1.0	1.0	
M09-956021	1.1	1.0	1.3	1.0	
M09-957051	1.1	1.0	1.3	1.0	
MN1410R2F5-83	1.2	1.3	1.3	1.0	
MN1410R2F5-121	1.0	1.0	1.0	1.0	
ND13-17680	1.2	1.3	1.3	1.0	
ND13-18960	1.9	1.0	2.7	2.0	
ND13-20504	1.4	1.3	2.0	1.0	
ND13-20529	1.9	1.3	2.3	2.0	
ND13-21879	1.9	1.3	2.3	2.0	
ND13-22401	1.6	1.3	2.3	1.0	
ND13-22802	1.4	1.0	1.3	2.0	
ND13-22866	1.2	1.3	1.3	1.0	

UNIFORM TEST 0 ROUNDUP READY, 2016

PROTEIN (%)

Strain	Mean 4 Tests	Morris MN	Rosemount MN	Casselton ND	Saint Hyacinthe QUE
AG0532 (0)	36.1	34.9	35.5	33.7	40.5
AG0231 (E)	36.6	34.8	36.1	35.0	40.6
AG0832	36.8	35.3	36.8	34.7	40.5
AG1234	36.3	34.6	36.4	33.5	40.7
M09-876012	37.3	35.8	37.5	34.0	41.8
M09-876048	36.0	34.6	35.5	33.4	40.7
M09-878011	38.1	35.6	36.6	37.6	42.5
M09-878087	37.0	35.7	36.2	34.5	41.4
M09-956021	37.3	35.9	37.5	33.9	42.0
M09-957051	36.7	35.7	37.5	32.5	41.3
MN1410R2F5-83	38.6	36.9	38.0	36.7	43.0
MN1410R2F5-121	37.7	36.6	37.3	34.3	42.6
ND13-17680	36.1	34.1	35.5	34.7	39.9
ND13-18960	36.5	34.8	36.7	33.7	41.0
ND13-20504	36.5	34.7	36.2	33.6	41.5
ND13-20529	35.2	34.3	34.4	33.3	38.6
ND13-21879	35.3	34.2	34.5	32.9	39.6
ND13-22401	37.6	35.7	36.7	36.6	41.4
ND13-22802	35.8	34.1	35.3	33.9	40.0
ND13-22866	36.3	35.0	35.8	34.0	40.5

UNIFORM TEST 0 ROUNDUP READY, 2016

OIL (%)

Strain	Mean 4 Tests	Morris MN	Rosemount MN	Casselton ND	Saint Hyacinthe QUE
AG0532 (0)	18.3	18.4	17.9	17.0	19.9
AG0231 (E)	18.7	18.8	18.3	16.9	20.8
AG0832	18.9	19.1	18.5	17.1	21.0
AG1234	18.5	18.6	18.0	17.1	20.5
M09-876012	18.4	18.5	17.5	16.6	21.0
M09-876048	18.9	19.0	18.3	17.6	20.8
M09-878011	18.5	19.2	18.8	15.6	20.6
M09-878087	19.1	19.2	18.9	17.4	21.1
M09-956021	18.6	18.9	18.4	16.9	20.1
M09-957051	18.6	18.8	17.8	17.3	20.4
MN1410R2F5-83	18.2	18.2	17.9	16.7	19.9
MN1410R2F5-121	18.4	18.5	17.9	16.8	20.3
ND13-17680	19.0	19.3	18.7	16.5	21.4
ND13-18960	19.7	19.7	19.0	18.3	21.7
ND13-20504	19.1	19.2	18.5	17.4	21.1
ND13-20529	19.7	19.6	19.4	17.5	22.4
ND13-21879	19.7	19.5	19.1	18.3	21.8
ND13-22401	18.0	18.4	17.3	15.9	20.3
ND13-22802	19.3	19.5	18.6	17.2	21.7
ND13-22866	18.9	18.8	18.4	17.5	21.0

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UNIFORM TEST I Roundup-Ready, 2016

Ent.	Strain	Parentage	Seed Source	Previous Testing	Gen. Comp.	Unique Traits
1	AG1733 (I)		Monsanto	1		
2	AG1234 (E)		Monsanto	1		
3	AG2031		Monsanto	4		
4	U07-135601R		Graef	7	F4	RR, Dt
5	M09-876026	MN1701CN x MN1410BC2R2F2-4	Lorenz	2	F5	
6	M09-877004	MN1410 x MN1410BC2R2F2-3	Lorenz	2	F5	
7	M09-956047	MN1410 x MN1410BC2R2F3	Lorenz	1	F5	RR2
8	M09-956063	MN1410 x MN1410BC2R2F3	Lorenz	UTIIRR	F5	RR2
9	M09-957075	MN1701CN x MN1410BC2R2F3	Lorenz	1	F5	RR2CN

UNIFORM TEST I ROUNDUP READY, 2016

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	IDC Score		Shattering Score	SDS Data
		Lamber-ton	Waseca	Man-hattan	Monmouth IL DX Rank
AG1733 (I)	PGTIYBfI	3.5	3.5	3.0	1.1
AG1234 (E)	PGTSYDibI	2.5	2.5	2.0	14.1
AG2031	PGTDYBI	4.0	4.0	2.0	1.3
U07-135601R	PGTDYDbfI	3.5	3.5	1.0	0.3
M09-876026	WTBDYG+YI	4.0	4.0	3.0	0.4
M09-877004	PGTDYDbf+YI	4.0	4.0	3.0	9.4
M09-956047	WGTSYBfI	4.0	4.0	5.0	0.3
M09-956063	P+WT+GTSYBfI	4.5	4.5	4.0	0.2
M09-957075	P+WGBIYY+GI	3.5	3.5	3.0	0.6
				Mean	4.0
				P>F	0.7243
				LSD	na

UNIFORM TEST I ROUNDUP READY, 2016

REGIONAL SUMMARY

No. of Tests Strain	Yield 9 bu/a	Rank 9 No.	Maturity 8 Date	Lodging 9 Score	Plant Height 7 In.	Seed Size 8 g/100	Seed Quality 7 Score	Composition	
								Protein 6 %	Oil 6 %
AG1733 (I)	74.1	1	9/22	1.4	33	17.6	1.3	34.5	19.7
AG1234 (E)	66.9	8	-5.2	1.4	34	16.5	1.4	35.8	19.0
AG2031	71.6	2	2.5	1.7	36	18.0	1.5	36.4	18.9
U07-135601R	68.6	7	1.8	1.7	34	16.4	1.4	35.6	19.4
M09-876026	69.9	4	0.2	2.7	39	17.6	2.2	36.1	19.2
M09-877004	69.0	5	-1.6	1.8	37	17.5	1.7	37.1	19.1
M09-956047	69.0	5	-1.7	1.7	37	17.8	1.9	37.1	19.3
M09-956063	65.8	9	0.5	1.8	35	18.5	2.0	37.2	19.2
M09-957075	70.6	3	-0.1	1.9	34	16.7	2.1	36.7	18.7
Mean	67.9			1.9	35.8	17.4	1.7		
C.V. (%)	10.5			32.6	8.0	6.1	26.0		
L.S.D. (5%)	4.0			0.4	1.9	0.8	0.4		

119.5 Days After Planting

UNIFORM TEST I ROUNDUP READY, 2016

2015-2016 2-Year Mean

No. of Tests Strain	Yield	Rank	Maturity	Lodging	Plant	Seed	Seed	Composition	
	17 bu/a	17 No.	16 Date	17 Score	Height 15 In.	Size 16 g/100	Quality 14 Score	Protein 10 %	Oil 10 %
AG1733	69.6	3	9/20	1.3	30	17.0	1.6	34.7	19.9
AG1234	67.2	8	-5.9	1.2	33	15.7	1.6	35.6	19.2
AG2031	70.7	1	3.3	1.6	34	17.5	1.6	36.0	19.4
U07-135601R	67.3	7	2.4	1.4	31	15.6	1.7	35.2	19.9
M09-876026	67.6	6	0.4	2.4	37	17.3	2.0	35.7	19.5
M09-877004	68.2	4	-2.0	1.7	35	17.1	1.8	36.6	19.4
M09-956047	69.8	2	-1.5	1.6	34	17.1	1.9	36.4	19.8
M09-957075	68.2	4	-0.8	1.8	32	16.0	2.0	36.4	19.2

120.0 Days After Planting

2014-2016 3-Year Mean

No. of Tests Strain	23	23	22	23	19	22	19	15	15
AG2031	69.8	1	3.4	1.5	33	16.6	1.9	36.1	18.9
U07-135601R	68.8	2	3.2	1.4	33	16.2	1.7	35.1	19.3
M09-876026	67.8	3	1.3	2.2	37	17.3	2.2	35.4	19.1
M09-877004	67.8	3	-1.0	1.7	36	16.7	2.0	36.3	19.0

119.3 Days After Planting

UNIFORM TEST I ROUNDUP READY, 2016

YIELD (bu/a)

Strain	Mean 9 Tests	Wanatah IN	West Lafayette IN	East Lansing* MI	Saginaw MI	Lamber- ton MN
AG1733 (I)	74.1	73.0	70.4	54.6	57.9	69.9
AG1234 (E)	66.9	65.8	58.1	63.2	50.3	65.2
AG2031	71.6	56.6	67.7	59.1	47.7	76.8
U07-135601R	68.6	71.5	64.9	61.7	57.7	60.4
M09-876026	69.9	60.4	59.1	54.1	67.2	66.3
M09-877004	69.0	68.0	58.7	62.8	58.0	58.0
M09-956047	69.0	60.9	48.5	69.7	67.4	63.9
M09-956063	65.8	62.4	51.1	60.8	53.5	68.1
M09-957075	70.6	66.8	60.6	73.7	63.7	76.6
Location Mean		65.0	59.9	62.2	58.2	67.2
C.V. (%)		13.7	8.0	16.7	6.6	11.2
L.S.D. (5%)		15.4	8.3	30.0	11.2	13.4
Row Sp. (In.)		30	30	30	15	30
Rows/Plot		4	4	4	6	4
Reps		3	3	2	2	3

*Data not included in the mean.

UNIFORM TEST I ROUNDUP READY, 2016

YIELD (bu/a)

Strain	Waseca MN	Cotes- field NE	Mead NE	Worms NE	Saint Hyacinthe QUE
AG1733 (I)	67.8	98.8	73.9	81.9	73.1
AG1234 (E)	61.5	89.0	66.5	75.9	70.0
AG2031	63.6	104.0	65.2	86.1	76.7
U07-135601R	61.4	89.9	65.7	72.7	73.2
M09-876026	62.0	94.7	65.3	81.1	72.9
M09-877004	60.1	99.4	64.4	78.9	75.6
M09-956047	60.5	98.7	65.2	78.8	77.0
M09-956063	56.3	92.7	56.6	77.0	74.7
M09-957075	65.6	88.7	72.4	74.6	66.7
Location Mean	62.1	95.1	66.1	78.6	73.3
C.V. (%)	10.2	7.1	8.9	6.2	3.5
L.S.D. (5%)	11.0	17.2	14.9	12.3	4.4
Row Sp. (In.)	30	30	30	30	14
Rows/Plot	4	4	4	4	4
Reps	2	2	2	2	3

UNIFORM TEST I ROUNDUP READY, 2016

YIELD RANK

Strain	Yield Rank	Wanatah IN	West Lafayette IN	East Lansing MI	Saginaw MI	Lamberton MN
AG1733 (I)	1	1	1	8	5	3
AG1234 (E)	8	5	7	3	8	6
AG2031	2	9	2	7	9	1
U07-135601R	7	2	3	5	6	8
M09-876026	4	8	5	9	2	5
M09-877004	5	3	6	4	4	9
M09-956047	5	7	9	2	1	7
M09-956063	9	6	8	6	7	4
M09-957075	3	4	4	1	3	2

UNIFORM TEST I ROUNDUP READY, 2016

MATURITY (date)

Strain	Mean 8 Tests	Wanatah IN	West Lafayette IN	East Lansing MI	Saginaw MI	Lamberton MN
AG1733 (I)	9/22	9/16	9/9	10/1		9/25
AG1234 (E)	-5	-9	-4	2		-6
AG2031	3	2	5	1		3
U07-135601R	2	1	-2	1		6
M09-876026	0	-1	-2	3		2
M09-877004	-2	-4	-3	0		-1
M09-956047	-2	-4	-1	-2		-0
M09-956063	1	-4	-3	12		2
M09-957075	-0	0	1	0		3
Date Planted	5/25	5/23	5/22	5/17		5/23
Days to Mature	120	116	110	137		125

UNIFORM TEST I ROUNDUP READY, 2016

YIELD RANK

Strain	Waseca MN	Cotes- field NE	Mead NE	Worms NE	Saint Hyacinthe QUE
AG1733 (I)	1	3	1	2	6
AG1234 (E)	5	8	3	7	8
AG2031	3	1	7	1	2
U07-135601R	6	7	4	9	5
M09-876026	4	5	5	3	7
M09-877004	8	2	8	4	3
M09-956047	7	4	7	5	1
M09-956063	9	6	9	6	4
M09-957075	2	9	2	8	9

UNIFORM TEST I ROUNDUP READY, 2016

MATURITY (date)

Strain	Waseca MN	Cotes- field NE	Mead NE	Worms NE	Saint Hyacinthe QUE
AG1733 (I)	9/28		9/19	9/20	9/28
AG1234 (E)	-5		-7	-8	-4
AG2031	2		1	0	6
U07-135601R	5		2	-1	2
M09-876026	1		0	-2	1
M09-877004	-2		0	-4	1
M09-956047	-1		-1	-5	0
M09-956063	1		-3	-3	2
M09-957075	-0		1	-5	-1
Date Planted	6/2		6/3	6/1	5/20
Days to Mature	118		108	111	131

UNIFORM TEST I ROUNDUP READY, 2016

LODGING (score)

Strain	Mean 9 Tests	Wanatah IN	West Lafayette IN	East Lansing MI	Saginaw MI	Lamber- ton MN
AG1733 (I)	1.4	1.0	1.0	3.5	1.0	1.0
AG1234 (E)	1.4	1.0	1.2	1.5	1.0	1.0
AG2031	1.7	1.0	2.7	1.5	1.0	2.0
U07-135601R	1.7	1.0	1.5	3.0	1.0	2.0
M09-876026	2.7	3.2	3.7	4.0	1.0	3.0
M09-877004	1.8	1.3	2.8	1.0	1.0	2.0
M09-956047	1.7	1.0	2.0	2.0	1.0	2.0
M09-956063	1.8	1.2	2.3	1.5	1.0	2.7
M09-957075	1.9	1.7	3.2	1.0	1.0	2.7

UNIFORM TEST I ROUNDUP READY, 2016

PLANT HEIGHT (inches)

Strain	Mean 7 Tests	Wanatah IN	West Lafayette IN	East Lansing MI	Saginaw MI	Lamber- ton MN
AG1733 (I)	33	33	35	31	30	34
AG1234 (E)	34	36	35	29	32	34
AG2031	36	37	39	29	31	38
U07-135601R	34	32	32	37	35	32
M09-876026	39	41	38	36	36	41
M09-877004	37	38	41	26	29	40
M09-956047	37	34	37	35	34	38
M09-956063	35	35	36	34	29	38
M09-957075	34	35	37	28	27	38

UNIFORM TEST I ROUNDUP READY, 2016

LODGING (score)

Strain	Waseca MN	Cotes- field NE	Mead NE	Worms NE	Saint Hyacinthe QUE
AG1733 (I)	2.3		1.0	1.0	1.0
AG1234 (E)	2.7		1.0	1.0	2.0
AG2031	2.3		1.0	1.0	2.7
U07-135601R	2.7		1.0	1.0	2.0
M09-876026	3.3		1.0	2.0	3.0
M09-877004	3.3		1.0	1.5	2.3
M09-956047	3.0		1.0	1.0	2.3
M09-956063	3.0		1.0	1.0	2.3
M09-957075	3.0		1.0	1.5	2.3

UNIFORM TEST I ROUNDUP READY, 2016

PLANT HEIGHT (inches)

Strain	Waseca MN	Cotes- field NE	Mead NE	Worms NE	Saint Hyacinthe QUE
AG1733 (I)			33		34
AG1234 (E)			34		39
AG2031			38		41
U07-135601R			35		33
M09-876026			40		45
M09-877004			42		42
M09-956047			36		41
M09-956063			35		39
M09-957075			38		39

UNIFORM TEST I ROUNDUP READY, 2016

SEED SIZE (g/100)

Strain	Mean 8 Tests	Wanatah IN	West Lafayette IN	East Lansing MI	Saginaw MI	Lamber- ton MN
AG1733 (I)	17.6	17.7	18.8	17.4		17.2
AG1234 (E)	16.5	15.2	16.0	20.7		15.3
AG2031	18.0	17.2	17.3	17.7		17.5
U07-135601R	16.4	15.3	15.1	19.2		16.0
M09-876026	17.6	16.6	17.8	18.9		17.2
M09-877004	17.5	16.8	16.8	16.5		15.7
M09-956047	17.8	16.6	18.7	19.9		16.2
M09-956063	18.5	18.5	18.1	17.2		18.1
M09-957075	16.7	14.4	16.7	19.9		16.4

UNIFORM TEST I ROUNDUP READY, 2016

SEED QUALITY (score)

Strain	Mean 7 Tests	Wanatah IN	West Lafayette IN	East Lansing MI	Saginaw MI	Lamber- ton MN
AG1733 (I)	1.3	1.0	1.5			1.0
AG1234 (E)	1.4	1.5	1.5			1.0
AG2031	1.5	1.5	1.5			1.3
U07-135601R	1.4	1.0	1.0			2.0
M09-876026	2.2	3.0	3.0			1.3
M09-877004	1.7	1.5	2.0			1.7
M09-956047	1.9	2.0	3.0			2.0
M09-956063	2.0	2.5	3.0			1.3
M09-957075	2.1	3.5	3.0			1.0

UNIFORM TEST I ROUNDUP READY, 2016

SEED SIZE (g/100)

Strain	Waseca MN	Cotes- field NE	Mead NE	Worms NE	Saint Hyacinthe QUE
AG1733 (I)	16.8	18.7	15.9		18.2
AG1234 (E)	15.9	16.7	15.3		16.9
AG2031	18.2	19.2	16.7		19.9
U07-135601R	16.6	17.3	14.9		16.6
M09-876026	17.3	18.7	15.7		18.4
M09-877004	18.0	19.9	17.2		18.9
M09-956047	16.5	19.0	16.9		18.5
M09-956063	18.5	19.9	17.6		20.2
M09-957075	16.7	17.2	15.9		16.5

UNIFORM TEST I ROUNDUP READY, 2016

SEED QUALITY (score)

Strain	Waseca MN	Cotes- field NE	Mead NE	Worms NE	Saint Hyacinthe QUE
AG1733 (I)	1.0	1.0	1.0		2.3
AG1234 (E)	1.0	1.0	1.0		3.0
AG2031	1.3	1.0	1.0		2.5
U07-135601R	1.0	1.0	1.0		3.0
M09-876026	1.3	2.0	2.0		3.0
M09-877004	1.0	1.0	2.0		3.0
M09-956047	1.0	1.0	1.0		3.0
M09-956063	1.0	1.0	2.0		3.0
M09-957075	1.0	1.0	2.0		3.0

UNIFORM TEST I ROUNDUP READY, 2016

PROTEIN (%)

Strain	Mean 6 Tests	West Lafayette IN	Lamber- ton MN	Waseca MN	Cotes- field NE	Mead NE	Saint Hyacinthe QUE
AG1733 (I)	34.5	34.4	34.0	32.8	34.4	32.5	39.1
AG1234 (E)	35.8	35.0	34.8	34.2	35.3	34.3	41.0
AG2031	36.4	36.0	35.8	34.7	35.4	34.5	42.1
U07-135601R	35.6	34.8	35.9	34.8	34.5	33.3	40.0
M09-876026	36.1	36.5	35.3	34.7	34.9	33.7	41.6
M09-877004	37.1	36.7	35.7	35.5	36.9	35.6	42.3
M09-956047	37.1	37.2	35.8	34.9	37.3	35.2	42.4
M09-956063	37.2	37.7	36.6	34.6	36.9	34.9	42.6
M09-957075	36.7	37.3	36.0	35.1	36.4	33.9	41.3

UNIFORM TEST I ROUNDUP READY, 2016

OIL (%)

Strain	Mean 6 Tests	West Lafayette IN	Lamber- ton MN	Waseca MN	Cotes- field NE	Mead NE	Saint Hyacinthe QUE
AG1733 (I)	19.7	20.7	18.8	19.3	19.3	19.7	20.4
AG1234 (E)	19.0	20.0	18.2	18.3	18.6	19.1	19.7
AG2031	18.9	19.5	18.2	18.6	19.0	19.2	19.3
U07-135601R	19.4	20.4	18.4	18.5	19.2	19.6	20.3
M09-876026	19.2	19.8	18.4	18.5	19.0	19.6	19.8
M09-877004	19.1	19.8	18.4	18.8	18.7	18.9	20.0
M09-956047	19.3	19.7	18.9	19.0	18.7	19.2	20.1
M09-956063	19.2	19.7	18.5	19.0	18.8	19.3	19.7
M09-957075	18.7	19.3	18.1	18.3	18.1	19.1	19.5

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UNIFORM TEST II Roundup-Ready, 2016

Ent.	Strain	Parentage	Seed Source	Previous Testing	Gen. Comp.	Unique Traits
1	U06-814223R (II)		Graef	5	F5	RR, Dt
2	AG2031 (E)		Monsanto	4		
3	AG2535		Monsanto	1		
4	U12-909109R	U07-135601R x U07-135377R	Graef	2	F5	Rps Resis.
5	LD12-15129 R1a	LD05-1540 x LD06-30505Ra	Diers	1	F5	RR1, Rag 1
6	LD12-15246 R2a	LD09-17170R2 x LD08-12459a	Diers	1	F5	RR2, Rag 1+2
7	LD12-15808R1a	LD09-15159 x LD06-30505Ra	Diers		F3	Rag 1+2
8	LD12-15811R1a	LD09-15159 x LD06-30505Ra	Diers		F3	Rag 1+2
9	LD12-15840R1a	LD09-15159 x LD06-30505Ra	Diers		F3	Rag 1+2
10	LD13-13228R1a	LD08-12430a x LD06-30505Ra	Diers		F5	Rag 1+2
11	LD13-13478R1a	LD08-12446a x LD06-14187R	Diers		F5	Rag 2
12	LD13-14071R2	LD02-4485 x LD09-17170R2	Diers		F5	
13	LD13-14107R2	LD02-4485 x LD09-17170R2	Diers		F5	

UNIFORM TEST II ROUNDUP READY, 2016

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	IDC Score		Shattering Score	SDS Data
		Lamber-ton	Waseca	Man-hattan	Monmouth IL DX Rank
U06-814223R (II)	WTBIYBrI	5.0	5.0	1.0	10.0
AG2031 (E)	PGTDYBI	5.0	5.0	2.0	8.3
AG2535	PGTSYDibI	5.0	5.0	1.0	0.3
U12-909109R	WTBDYBI	5.0	5.0	1.0	3.7
LD12-15129 R1a	PT+GBSYBrI	5.0	5.0	1.0	0.4
LD12-15246 R2a	P+WT+GTDYDibI	4.3	4.3	3.0	10.8
LD12-15808R1a	PGTDYBfi	5.0	5.0	2.0	0.1
LD12-15811R1a	PGTDYBfi	5.0	5.0	2.0	0.0
LD12-15840R1a	PGTDYBfi	5.0	5.0	2.0	1.2
LD13-13228R1a	PGTIYBf+BI	5.0	5.0	1.0	6.7
LD13-13478R1a	PTBDYBI	5.0	5.0	2.0	2.3
LD13-14071R2	PGTIYGI	4.5	4.5	2.0	2.5
LD13-14107R2	PTBSYBfi	5.0	5.0	1.0	0.1
				Mean	3.0
				P>F	0.4067
				LSD	10.3

UNIFORM TEST II ROUNDUP READY, 2016

REGIONAL SUMMARY

No. of Tests Strain	Yield 11 bu/a	Rank 11 No.	Maturity 9 Date	Lodging 10 Score	Plant Height 8 In.	Seed Size 9 g/100	Seed Quality 8 Score	Composition	
								Protein 7 %	Oil 7 %
U06-814223R (II)	59.0	13	9/25	1.5	27	16.3	1.5	34.2	20.1
AG2031 (E)	73.0	4	-3.6	1.8	38	17.5	1.6	35.1	19.2
AG2535	74.7	2	-0.3	2.0	38	16.5	1.2	34.1	19.4
U12-909109R	70.1	9	2.6	1.7	32	16.7	1.3	34.0	19.6
LD12-15129 R1a	73.8	3	-1.8	2.2	40	16.5	1.4	34.4	19.6
LD12-15246 R2a	75.1	1	0.5	1.8	36	15.8	1.2	34.5	18.9
LD12-15808R1a	69.3	10	0.5	2.4	40	14.9	1.3	32.9	19.9
LD12-15811R1a	71.1	7	-0.9	2.6	39	14.7	1.4	32.6	19.7
LD12-15840R1a	71.0	8	-1.3	2.3	40	14.7	1.3	32.2	19.9
LD13-13228R1a	72.8	5	0.4	2.3	40	15.0	1.3	32.3	19.8
LD13-13478R1a	69.3	10	1.7	2.3	42	15.2	1.1	34.2	19.3
LD13-14071R2	69.1	12	2.2	2.1	38	15.4	1.4	34.2	18.7
LD13-14107R2	71.6	6	2.2	2.4	40	15.1	1.3	34.0	18.5
Mean	69.2			2.1	37.8	16.0	1.2		
C.V. (%)	9.0			25.7	7.9	4.5	22.0		
L.S.D. (5%)	3.4			0.3	1.9	0.5	0.2		

124.7 Days After Planting

UNIFORM TEST II ROUNDUP READY, 2016

2015-2016 2-Year Mean

No. of Tests Strain	Yield 22 bu/a	Rank 22 No.	Maturity 19 Date	Lodging 19 Score	Plant Height 18 In.	Seed Size 19 g/100	Seed Quality 17 Score	Composition	
								Protein 14 %	Oil 14 %
U06-814223R (II)	56.5	6	9/26	1.4	25	15.3	1.6	33.9	20.1
AG0231 (E)	68.8	4	-2.0	1.5	33	17.4	1.7	35.1	19.3
AG2535	70.5	1	-0.2	1.5	34	16.0	1.4	34.2	19.4
U12-909109R	67.4	5	3.4	1.5	30	16.3	1.6	34.5	19.3
LD12-15129 R1a	69.7	3	-1.8	1.7	34	16.2	1.6	34.5	19.5
LD12-15246 R2a	70.5	1	1.5	1.5	32	15.6	1.6	34.3	19.1

125.3 Days After Planting

UNIFORM TEST II ROUNDUP READY, 2016

YIELD (bu/a)

Strain	Mean 11 Tests	Monmouth IL	Urbana IL	Wanatah IN	West Lafayette IN	Britton MI	East Lansing MI
U06-814223R (II)	59.0	55.4	54.7	64.2	59.4	59.4	69.8
AG2031 (E)	73.0	74.7	72.1	74.4	63.8	63.9	73.5
AG2535	74.7	75.7	74.9	76.9	73.9	75.7	83.6
U12-909109R	70.1	75.3	68.2	71.4	61.7	69.0	81.1
LD12-15129 R1a	73.8	79.7	70.7	67.7	69.8	68.8	76.9
LD12-15246 R2a	75.1	72.6	75.7	79.0	74.2	78.5	76.3
LD12-15808R1a	69.3	69.4	69.6	64.5	67.5	70.8	81.5
LD12-15811R1a	71.1	76.8	71.7	64.2	67.0	66.5	78.4
LD12-15840R1a	71.0	73.9	69.0	66.0	65.6	68.5	76.6
LD13-13228R1a	72.8	71.7	70.1	68.5	67.5	73.7	82.3
LD13-13478R1a	69.3	75.6	70.1	68.4	64.1	72.8	77.3
LD13-14071R2	69.1	75.3	77.6	68.5	70.2	56.7	75.4
LD13-14107R2	71.6	79.1	75.6	66.9	67.9	65.6	75.3
Location Mean		73.5	70.8	69.3	67.1	68.5	77.5
C.V. (%)		4.6	4.0	4.8	5.8	6.2	7.3
L.S.D. (5%)		7.4	6.1	5.6	6.3	11.3	15.3
Row Sp. (In.)		30	30	30	30	15	30
Rows/Plot		4	4	4	4	6	4
Reps		2	2	3	3	2	2

UNIFORM TEST II ROUNDUP READY, 2016

YIELD (bu/a)

Strain	Lamberton MN	Waseca MN	Cotes- field NE	Mead NE	Worms NE
U06-814223R (II)	43.5	49.2	81.8	38.4	73.7
AG2031 (E)	60.8	68.9	97.5	76.0	76.9
AG2535	61.0	63.6	99.0	63.1	74.7
U12-909109R	48.9	61.9	94.2	64.6	74.8
LD12-15129 R1a	57.7	60.6	110.7	70.5	78.9
LD12-15246 R2a	56.3	62.1	102.8	67.9	81.2
LD12-15808R1a	50.2	54.6	94.7	61.2	78.6
LD12-15811R1a	57.4	55.6	95.8	72.4	76.2
LD12-15840R1a	54.6	55.2	103.9	77.5	69.8
LD13-13228R1a	56.0	54.4	101.3	66.7	89.2
LD13-13478R1a	50.8	53.3	99.8	53.0	77.0
LD13-14071R2	56.0	62.3	92.9	61.7	63.7
LD13-14107R2	58.1	60.9	100.7	61.4	75.9
Location Mean	54.7	58.7	98.1	64.2	76.2
C.V. (%)	14.8	8.6	6.9	10.4	9.4
L.S.D. (5%)	13.6	8.5	16.7	16.6	18.6
Row Sp. (In.)	30	30	30	30	30
Rows/Plot	4	4	4	4	4
Reps	3	3	2	2	2

UNIFORM TEST II ROUNDUP READY, 2016

YIELD RANK

Strain	Yield Rank	Monmouth IL	Urbana IL	Wanatah IN	West Lafayette IN	Britton MI	East Lansing MI
U06-814223R (II)	13	13	13	12	13	12	13
AG2031 (E)	4	8	5	3	11	11	12
AG2535	2	4	4	2	2	2	1
U12-909109R	9	6	12	4	12	6	4
LD12-15129 R1a	3	1	7	8	4	7	7
LD12-15246 R2a	1	10	2	1	1	1	9
LD12-15808R1a	10	12	10	11	6	5	3
LD12-15811R1a	7	3	6	12	8	8	5
LD12-15840R1a	8	9	11	10	9	8	8
LD13-13228R1a	5	11	8	5	7	3	2
LD13-13478R1a	10	5	8	7	10	4	6
LD13-14071R2	12	6	1	5	3	13	10
LD13-14107R2	6	2	3	9	5	10	11

UNIFORM TEST II ROUNDUP READY, 2016

MATURITY (date)

Strain	Mean 9 Tests	Monmouth IL	Urbana IL	Wanatah IN	West Lafayette IN	Britton MI	East Lansing MI
U06-814223R (II)	9/25	9/14	9/12	9/22	9/18		10/5
AG2031 (E)	-4	-2	-3	-2	-5		1
AG2535	-0	-1	2	-3	2		-1
U12-909109R	3	3	4	2	3		-2
LD12-15129 R1a	-2	2	0	-2	-2		1
LD12-15246 R2a	1	1	2	2	3		-2
LD12-15808R1a	1	3	2	-1	-1		-2
LD12-15811R1a	-1	2	0	-2	-1		-2
LD12-15840R1a	-1	-1	-1	-1	-4		2
LD13-13228R1a	0	3	2	-2	-2		-2
LD13-13478R1a	2	4	5	1	4		-2
LD13-14071R2	2	6	5	-1	4		-3
LD13-14107R2	2	6	5	0	2		-1
Date Planted	5/23	5/6	5/21	5/23	5/22		5/17
Days to Mature	125	131	114	122	119		141

UNIFORM TEST II ROUNDUP READY, 2016

YIELD RANK

Strain	Lamberton MN	Waseca MN	Cotes- field NE	Mead NE	Worms NE
U06-814223R (II)	13	13	13	13	11
AG2031 (E)	2	1	8	2	6
AG2535	1	2	7	8	10
U12-909109R	12	5	11	7	9
LD12-15129 R1a	4	7	1	4	3
LD12-15246 R2a	6	4	3	5	2
LD12-15808R1a	11	10	10	11	4
LD12-15811R1a	5	8	9	3	7
LD12-15840R1a	9	9	2	1	12
LD13-13228R1a	8	11	4	6	1
LD13-13478R1a	10	12	6	12	5
LD13-14071R2	7	3	12	9	13
LD13-14107R2	3	6	5	10	8

UNIFORM TEST II ROUNDUP READY, 2016

MATURITY (date)

Strain	Lamberton MN	Waseca MN	Cotes- field NE	Mead NE	Worms NE
U06-814223R (II)	10/7	10/6		9/25	9/27
AG2031 (E)	-4	-5		-5	-7
AG2535	-4	3		1	-2
U12-909109R	6	2		3	2
LD12-15129 R1a	-3	-2		-4	-6
LD12-15246 R2a	2	-1		-1	-1
LD12-15808R1a	6	2		-2	-2
LD12-15811R1a	2	-1		-3	-4
LD12-15840R1a	2	-1		-4	-3
LD13-13228R1a	7	-2		2	-3
LD13-13478R1a	4	-2		2	-1
LD13-14071R2	9	-0		1	-1
LD13-14107R2	7	0		0	0
Date Planted	5/23	6/2		6/3	6/1
Days to Mature	137	126		114	118

UNIFORM TEST II ROUNDUP READY, 2016

LODGING (score)

Strain	Mean 10 Tests	Monmouth IL	Urbana IL	Wanatah IN	West Lafayette IN	Britton MI	East Lansing MI
U06-814223R (II)	1.5	1.5	1.3	1.0	1.2	2.0	1.0
AG2031 (E)	1.8	1.8	1.8	1.3	1.7	3.0	2.0
AG2535	2.0	1.3	2.5	1.0	3.0	3.0	2.0
U12-909109R	1.7	1.3	1.5	1.0	1.8	2.5	2.0
LD12-15129 R1a	2.2	2.8	2.0	1.7	2.2	3.0	2.5
LD12-15246 R2a	1.8	2.3	1.8	1.3	1.2	3.0	1.5
LD12-15808R1a	2.4	3.5	2.5	1.5	3.7	3.0	2.0
LD12-15811R1a	2.6	2.8	3.0	2.0	3.3	3.5	3.0
LD12-15840R1a	2.3	2.5	2.5	1.7	3.0	3.0	2.0
LD13-13228R1a	2.3	2.8	2.3	1.8	3.2	3.0	2.0
LD13-13478R1a	2.3	2.3	2.0	2.3	2.7	3.5	3.0
LD13-14071R2	2.1	2.5	2.3	1.0	1.7	3.0	2.5
LD13-14107R2	2.4	3.3	2.3	2.3	2.5	3.0	3.0

UNIFORM TEST II ROUNDUP READY, 2016

PLANT HEIGHT (inches)

Strain	Mean 8 Tests	Monmouth IL	Urbana IL	Wanatah IN	West Lafayette IN	Britton MI	East Lansing MI
U06-814223R (II)	27.4	22	26	32	30	29	28
AG2031 (E)	37.6	36	36	39	38	40	36
AG2535	38.2	38	38	38	41	42	33
U12-909109R	32.3	29	29	35	32	34	29
LD12-15129 R1a	39.8	37	39	39	41	47	37
LD12-15246 R2a	36.3	35	37	39	38	37	31
LD12-15808R1a	39.8	36	41	40	41	43	36
LD12-15811R1a	38.9	36	39	40	42	41	35
LD12-15840R1a	39.6	37	39	39	41	40	36
LD13-13228R1a	39.6	35	37	41	42	42	35
LD13-13478R1a	41.6	39	40	42	46	45	36
LD13-14071R2	38.4	36	38	39	39	40	34
LD13-14107R2	40.3	36	42	41	42	43	36

UNIFORM TEST II ROUNDUP READY, 2016

LODGING (score)

Strain	Lamberton MN	Waseca MN	Cotes- field NE	Mead NE	Worms NE
U06-814223R (II)	2.0	3.0		1.0	1.5
AG2031 (E)	1.7	3.0		1.0	1.0
AG2535	1.7	3.3		1.0	1.0
U12-909109R	1.7	3.0		1.0	1.0
LD12-15129 R1a	2.0	3.0		1.0	1.5
LD12-15246 R2a	1.3	3.0		1.0	1.5
LD12-15808R1a	2.0	3.0		1.0	1.5
LD12-15811R1a	2.0	3.7		1.0	2.0
LD12-15840R1a	2.7	3.0		1.0	1.5
LD13-13228R1a	2.0	3.0		1.0	2.0
LD13-13478R1a	2.0	3.0		1.0	1.5
LD13-14071R2	2.0	3.3		1.0	2.0
LD13-14107R2	2.0	3.0		1.0	2.0

UNIFORM TEST II ROUNDUP READY, 2016

PLANT HEIGHT (inches)

Strain	Lamberton MN	Waseca MN	Cotes- field NE	Mead NE	Worms NE
U06-814223R (II)	27			26	
AG2031 (E)	38			39	
AG2535	40			36	
U12-909109R	35			36	
LD12-15129 R1a	38			41	
LD12-15246 R2a	36			38	
LD12-15808R1a	41			42	
LD12-15811R1a	37			42	
LD12-15840R1a	43			41	
LD13-13228R1a	43			42	
LD13-13478R1a	43			43	
LD13-14071R2	39			42	
LD13-14107R2	41			42	

UNIFORM TEST II ROUNDUP READY, 2016

SEED SIZE (g/100)

Strain	Mean 9 Tests	Monmouth IL	Urbana IL	Wanatah IN	West Lafayette IN	Britton MI	East Lansing MI
U06-814223R (II)	16.3	15.1	14.7	14.6	16.9		17.9
AG2031 (E)	17.5	17.2	17.3	16.9	17.8		19.7
AG2535	16.5	14.8	16.6	15.5	17.0		19.0
U12-909109R	16.7	15.0	16.1	16.2	16.9		19.1
LD12-15129 R1a	16.5	16.1	16.1	14.6	15.3		19.4
LD12-15246 R2a	15.8	14.0	15.7	16.2	16.0		17.9
LD12-15808R1a	14.9	12.5	14.5	13.9	14.8		18.7
LD12-15811R1a	14.7	13.4	14.5	12.6	14.5		18.4
LD12-15840R1a	14.7	12.9	13.7	13.2	14.8		17.3
LD13-13228R1a	15.0	13.4	14.1	13.6	15.1		18.6
LD13-13478R1a	15.2	13.4	14.3	14.6	14.6		18.9
LD13-14071R2	15.4	14.2	15.1	14.5	15.7		17.5
LD13-14107R2	15.1	13.9	14.7	13.7	14.7		17.1

UNIFORM TEST II ROUNDUP READY, 2016

SEED QUALITY (score)

Strain	Mean 8 Tests	Monmouth IL	Urbana IL	Wanatah IN	West Lafayette IN	Britton MI	East Lansing MI
U06-814223R (II)	1.5	2.0	2.0	1.0	2.0		
AG2031 (E)	1.6	2.0	2.0	1.5	2.0		
AG2535	1.2	1.0	2.0	1.0	1.5		
U12-909109R	1.3	2.0	2.0	1.0	1.5		
LD12-15129 R1a	1.4	3.0	2.0	1.0	1.0		
LD12-15246 R2a	1.2	1.0	2.0	1.0	1.0		
LD12-15808R1a	1.3	1.0	2.0	1.5	1.5		
LD12-15811R1a	1.4	2.0	2.0	1.5	1.5		
LD12-15840R1a	1.3	2.0	2.0	1.0	1.5		
LD13-13228R1a	1.3	2.0	2.0	1.0	1.5		
LD13-13478R1a	1.1	2.0	1.0	1.0	1.0		
LD13-14071R2	1.4	2.0	2.0	1.0	1.5		
LD13-14107R2	1.3	2.0	2.0	1.0	1.0		

UNIFORM TEST II ROUNDUP READY, 2016

SEED SIZE (g/100)

Strain	Lamberton MN	Waseca MN	Cotes- field NE	Mead NE	Worms NE
U06-814223R (II)	16.1	16.6	18.2	16.8	
AG2031 (E)	17.6	16.8	18.3	16.3	
AG2535	16.9	16.9	17.9	13.7	
U12-909109R	17.2	16.9	17.6	15.6	
LD12-15129 R1a	16.7	16.0	17.7	16.2	
LD12-15246 R2a	16.5	15.9	16.7	13.4	
LD12-15808R1a	16.3	14.4	16.3	13.1	
LD12-15811R1a	16.1	14.0	16.0	12.5	
LD12-15840R1a	15.8	14.7	16.2	13.4	
LD13-13228R1a	15.5	13.7	16.9	14.2	
LD13-13478R1a	16.4	15.0	16.3	13.5	
LD13-14071R2	15.8	15.9	15.9	13.5	
LD13-14107R2	15.6	15.6	16.8	13.5	

UNIFORM TEST II ROUNDUP READY, 2016

SEED QUALITY (score)

Strain	Lamberton MN	Waseca MN	Cotes- field NE	Mead NE	Worms NE
U06-814223R (II)	1.0	1.0	2.0	1.0	
AG2031 (E)	1.3	1.0	2.0	1.0	
AG2535	1.0	1.0	1.0	1.0	
U12-909109R	1.0	1.0	1.0	1.0	
LD12-15129 R1a	1.3	1.0	1.0	1.0	
LD12-15246 R2a	1.3	1.0	1.0	1.0	
LD12-15808R1a	1.0	1.0	1.0	1.0	
LD12-15811R1a	1.3	1.0	1.0	1.0	
LD12-15840R1a	1.0	1.0	1.0	1.0	
LD13-13228R1a	1.0	1.0	1.0	1.0	
LD13-13478R1a	1.0	1.0	1.0	1.0	
LD13-14071R2	1.3	1.0	1.0	1.0	
LD13-14107R2	1.0	1.0	1.0	1.0	

UNIFORM TEST II ROUNDUP READY, 2016

PROTEIN (%)

Strain	Mean 7 Tests	Mon- mouth IL	Urbana IL	West Lafayette IN	Lamber- ton MN	Waseca MN	Cotes- field NE	Mead NE
U06-814223R (II)	34.2	35.0	33.2	35.1	34.0	34.7	33.3	34.4
AG2031 (E)	35.1	35.7	35.1	35.9	35.6	34.5	34.2	34.6
AG2535	34.1	34.3	34.3	35.1	34.6	34.4	32.8	33.5
U12-909109R	34.0	33.6	33.2	34.1	34.8	33.9	33.9	34.1
LD12-15129 R1a	34.4	35.1	33.9	34.9	35.1	33.7	33.8	34.5
LD12-15246 R2a	34.5	34.1	33.8	35.2	35.6	34.3	33.7	34.6
LD12-15808R1a	32.9	33.0	33.2	32.9	33.2	32.4	32.2	33.5
LD12-15811R1a	32.6	32.9	32.8	32.7	33.1	32.0	32.2	32.6
LD12-15840R1a	32.2	32.5	31.5	32.7	33.5	31.8	31.2	32.3
LD13-13228R1a	32.3	32.6	32.0	32.6	32.8	31.9	31.7	32.5
LD13-13478R1a	34.2	34.3	35.1	35.1	34.5	33.0	33.4	34.1
LD13-14071R2	34.2	34.3	34.4	35.3	34.9	33.1	32.6	34.9
LD13-14107R2	34.0	34.0	34.2	34.7	34.3	33.8	33.4	33.8

UNIFORM TEST II ROUNDUP READY, 2016

OIL (%)

Strain	Mean 7 Tests	Mon- mouth IL	Urbana IL	West Lafayette IN	Lamber- ton MN	Waseca MN	Cotes- field NE	Mead NE
U06-814223R (II)	20.1	20.5	21.2	21.0	19.0	19.0	20.1	19.9
AG2031 (E)	19.2	19.3	19.9	19.8	18.4	18.5	19.2	19.1
AG2535	19.4	19.9	20.3	19.9	18.6	18.7	19.5	18.6
U12-909109R	19.6	20.4	20.9	20.5	18.4	18.7	19.5	18.9
LD12-15129 R1a	19.6	20.1	20.8	20.5	18.4	18.6	19.2	19.4
LD12-15246 R2a	18.9	19.4	20.0	19.6	17.9	18.1	19.2	18.3
LD12-15808R1a	19.9	20.7	21.0	21.3	18.7	18.9	19.7	19.0
LD12-15811R1a	19.7	20.0	20.7	21.0	18.4	19.2	19.2	19.0
LD12-15840R1a	19.9	20.5	21.3	21.1	18.4	19.0	19.8	19.4
LD13-13228R1a	19.8	20.2	20.7	21.1	18.5	18.8	19.8	19.5
LD13-13478R1a	19.3	19.8	19.9	20.0	18.5	19.1	19.0	19.0
LD13-14071R2	18.7	19.1	19.9	19.7	17.7	18.1	19.0	17.7
LD13-14107R2	18.5	18.7	19.1	19.1	17.5	18.1	18.5	18.3

UNIFORM TEST III Roundup-Ready, 2016

Ent.	Strain	Parentage	Seed Source	Prev. Testing	Gen. Comp.	Unique Traits
1	U03-827101 (III) (SCN)		Graef	8		RR, SCN
2	AG3334		Monsanto	1		
3	AG3832		Monsanto	7		RR, SCN
4	U12-909109R	U07-135601R x U07-135377R	Graef	2	F5	Rps Resis.
5	LD11-14102R	(Syngenta 03JR313108 x (LD00-3309 x RR2)) x LD06-7620 x LD06-7620	Diers	3	F5	RR2, SCN
6	LD12-15156 R1a	LD06-30505Ra x LD04-13265	Diers	1	F5	RR1, Rag 1
7	LD12-15609 R2	LD09-17254R2 x LD04-13265	Diers	1	F5	RR2
8	LD12-15753 R2	LD06-7984 x LD09-17254R2	Diers	1	F5	RR2
9	LD13-13334R1a	LD05-1540 x LD06-30505Ra	Diers		F5	
10	LD13-14327R2	LD06-7596 x LD09-17254R2	Diers		F5	
11	LD13-14525R2	LD09-17254R2 x LD06-7596	Diers		F5	
12	SA12-1756RR	S05-11482 x S07-15722RR	Scaboo	1	F5	
13	SA13-4268RR	K07-1633 x S10-3190RR2	Scaboo		F4	
14	SA13-4304RR	K07-1633 x S10-3190RR2	Scaboo		F4	
15	SA13-4342RR	K07-1633 x S10-3190RR2	Scaboo		F4	
16	SA13-4420RR	LS07-3125 x S10-1999RR2	Scaboo		F4	
17	SA13-4434RR	LS07-3125 x S10-1999RR2	Scaboo		F4	

UNIFORM TEST III ROUNDUP READY, 2016

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	Shattering	SDS Data		
		Score Man-hattan	Shawneetown and Valmeyer, IL		
			Shaw SDS DX	Val SDS DX	Mean SDS Mean DX
U03-827101 (III) (SCN)	WTBDYBI	1.0	5.0	0.0	2.5
AG3334	PGTSYDibI	1.0	1.1	0.0	0.6
AG3832	PGTSYDibI	1.0	0.1	0.0	0.0
U12-909109R	WTBDYBI	1.0	4.2	0.0	2.1
LD11-14102R	WGBIYDbrI	1.0	5.0	0.0	2.5
LD12-15156 R1a	PGBIYDibI	1.0	0.3	0.0	0.1
LD12-15609 R2	PGBDYBrI	1.0	1.1	0.0	0.6
LD12-15753 R2	PGTDYDibI	1.0	2.3	0.0	1.1
LD13-13334R1a	P+WGTIYBfI	1.0	0.3	0.0	0.2
LD13-14327R2	WGBSYBI	1.0	4.2	0.0	2.1
LD13-14525R2	P+WGBIYDibI	2.0	3.1	0.0	1.5
SA12-1756RR	WGBSYBI	1.0	1.4	0.3	0.8
SA13-4268RR	WGTSYBI	1.0	10.8	0.0	5.4
SA13-4304RR	WTBSYBI	1.0	10.8	0.0	5.4
SA13-4342RR	WGTDYBI	1.0	6.7	0.0	3.3
SA13-4420RR	PGTDYDibI	1.0	3.6	0.0	1.8
SA13-4434RR	WGTSYBfI	1.0	2.2	0.6	1.4
		Mean	4.8	0.1	
		P>F	<.0001	0.4428	
		LSD	5.9	1.1	

UNIFORM TEST III ROUNDUP READY, 2016

REGIONAL SUMMARY

No. of Tests Strain	Yield	Rank	Maturity	Lodging	Plant	Seed	Seed	Composition	
	10 bu/a	10 No.	10 Date	10 Score	Height 9 In.	Size 10 g/100	Quality 10 Score	Protein 5 %	Oil 5 %
U03-827101 (III) (SCN)	67.3	15	9/24	1.8	40	16.5	1.6	36.0	18.8
AG3334	78.7	1	-0.5	1.5	41	17.3	1.5	35.9	18.6
AG3832	76.9	2	4.5	1.4	39	17.2	1.6	35.1	18.7
U12-909109R	64.6	17	-4.9	1.4	31	16.3	1.8	33.8	20.0
LD11-14102R	76.3	4	2.1	2.3	39	16.7	1.6	35.0	19.6
LD12-15156 R1a	71.3	10	-1.0	2.7	41	16.6	1.6	33.5	19.7
LD12-15609 R2	70.8	11	0.4	1.7	38	15.7	1.4	34.6	19.4
LD12-15753 R2	73.2	7	-1.9	2.0	40	16.9	1.6	35.3	19.7
LD13-13334R1a	69.2	12	-4.4	1.7	42	14.4	1.7	33.7	19.8
LD13-14327R2	75.8	5	3.4	2.3	42	16.4	1.7	35.6	18.9
LD13-14525R2	76.4	3	-1.3	2.4	42	15.4	1.7	34.6	19.4
SA12-1756RR	67.0	16	3.7	3.7	47	13.1	1.6	35.4	18.0
SA13-4268RR	73.4	6	3.0	3.0	40	14.0	1.3	35.0	17.8
SA13-4304RR	69.2	12	4.1	2.6	45	14.6	1.6	35.2	18.0
SA13-4342RR	68.5	14	4.5	2.9	39	16.0	1.6	36.8	18.1
SA13-4420RR	71.9	8	1.8	1.5	42	13.2	1.6	34.3	18.9
SA13-4434RR	71.7	9	4.0	1.3	41	14.7	1.5	34.8	18.7
Mean	71.3			2.1	40.0	15.2	1.6		
C.V. (%)	8.7			27.3	6.2	5.4	27.8		
L.S.D. (5%)	3.4			0.3	1.4	0.5	0.3		

126.7 Days After Planting

UNIFORM TEST III ROUNDUP READY, 2016

2015-2016 2-Year Mean

No. of Tests Strain	Yield 18 bu/a	Rank 18 No.	Maturity 17 Date	Lodging 17 Score	Plant Height 16 In.	Seed Size 17 g/100	Seed Quality 18 Score	Composition Protein 9 %	Oil 9 %
U03-827101 (III) (SCN)	63.3	8	9/23	1.5	34	15.8	1.7	35.8	19.1
AG3334	72.8	2	-0.1	1.3	35	16.6	1.6	35.9	18.8
AG3832	73.1	1	3.3	1.3	34	16.8	1.8	35.4	18.9
LD11-14102R	72.0	3	1.4	1.7	34	15.9	1.8	35.0	19.7
LD12-15156 R1a	67.5	6	-0.7	2.1	36	16.0	1.7	33.5	19.9
LD12-15609 R2	67.8	5	1.0	1.4	34	15.2	1.7	34.7	19.6
LD12-15753 R2	68.7	4	-2.0	1.5	34	16.1	1.7	35.5	19.7
SA12-1756RR	65.8	7	2.1	2.7	39	12.8	1.8	35.2	18.3

125.3 Days After Planting

2014-2016 3-Year Mean

No. of Tests Strain	22	22	22	22	21	22	22	14	14
U827101 (III) (SCN)	63.7	3	9/26	1.6	33	16.7	1.9	35.8	18.9
AG3832	70.3	1	5.4	1.5	34	16.1	2.0	35.1	18.7
LD11-14102R	69.3	2	2.5	1.8	34	16.4	2.0	35.4	19.5

128.3 Days After Planting

UNIFORM TEST III ROUNDUP READY, 2016

YIELD (bu/a)

Strain	Mean 10 Tests	Arthur IL	Urbana IL	Wanatah IN	West Lafayette IN	Albany MO
U03-827101 (III) (SCN)	67.3	78.1	65.2	52.6	60.7	73.9
AG3334	78.7	94.7	77.4	73.1	74.5	80.9
AG3832	76.9	82.1	75.0	71.8	72.2	81.5
U12-909109R	64.6	68.4	70.3	62.2	61.4	83.3
LD11-14102R	76.3	85.4	82.8	73.6	69.0	76.8
LD12-15156 R1a	71.3	83.5	69.8	66.8	64.1	77.6
LD12-15609 R2	70.8	73.9	74.8	66.6	64.7	73.6
LD12-15753 R2	73.2	78.3	77.0	71.3	70.5	76.6
LD13-13334R1a	69.2	78.3	72.4	68.1	67.0	70.8
LD13-14327R2	75.8	83.0	81.0	70.9	73.3	81.1
LD13-14525R2	76.4	79.9	79.2	74.7	74.1	81.2
SA12-1756RR	67.0	64.2	66.7	50.0	60.0	70.3
SA13-4268RR	73.4	77.6	75.1	62.2	65.1	83.3
SA13-4304RR	69.2	76.5	66.2	63.1	65.5	75.8
SA13-4342RR	68.5	73.9	69.6	57.5	65.3	79.8
SA13-4420RR	71.9	81.0	75.2	61.3	65.1	83.5
SA13-4434RR	71.7	80.2	73.0	61.5	66.7	77.5
Location Mean		78.8	73.6	65.1	67.0	78.1
C.V. (%)		8.0	5.7	7.1	6.5	7.4
L.S.D. (5%)		13.3	8.9	7.7	7.2	9.6
Row Sp. (In.)		30	30	30	30	30
Rows/Plot		4	4	4	4	4
Reps		2	2	3	3	3

UNIFORM TEST III ROUNDUP READY, 2016

YIELD (bu/a)

Strain	Novelty MO	Portageville Clay MO	Portageville Loam MO	Clay Center NE	Wymore NE
U03-827101 (III) (SCN)	66.9	57.5	61.1	78.6	78.6
AG3334	77.1	72.0	66.9	86.2	83.8
AG3832	83.8	71.2	67.6	80.7	83.6
U12-909109R	39.1	57.6	52.0	78.8	72.7
LD11-14102R	75.8	70.8	73.0	77.3	78.2
LD12-15156 R1a	81.3	67.8	55.6	76.1	70.0
LD12-15609 R2	73.7	62.2	70.5	75.1	73.3
LD12-15753 R2	82.4	67.1	63.8	73.3	71.8
LD13-13334R1a	78.8	66.7	51.1	68.5	70.5
LD13-14327R2	74.5	69.4	68.8	80.5	75.1
LD13-14525R2	76.2	64.2	64.5	92.4	77.7
SA12-1756RR	80.0	61.7	69.1	76.5	71.5
SA13-4268RR	73.3	64.4	72.0	76.7	84.9
SA13-4304RR	71.6	63.1	63.8	72.8	73.4
SA13-4342RR	71.9	60.8	63.2	72.6	70.6
SA13-4420RR	70.0	58.2	71.0	78.7	74.5
SA13-4434RR	83.5	61.7	66.9	71.0	74.8
Location Mean	74.1	64.5	64.8	77.4	75.6
C.V. (%)	9.2	5.2	6.0	4.9	6.3
L.S.D. (5%)	11.3	6.7	7.8	9.4	11.8
Row Sp. (In.)	30	30	30	30	30
Rows/Plot	4	4	4	4	4
Reps	3	2	2	2	2

UNIFORM TEST III ROUNDUP READY, 2016

YIELD RANK

Strain	Yield Rank	Arthur IL	Urbana IL	Wanatah IN	West Lafayette IN	Albany MO
U03-827101 (III) (SCN)	15	11	17	16	16	14
AG3334	1	1	4	3	1	7
AG3832	2	5	8	4	4	4
U12-909109R	17	16	12	11	15	2
LD11-14102R	4	2	1	2	6	11
LD12-15156 R1a	10	3	13	8	14	9
LD12-15609 R2	11	14	9	9	13	15
LD12-15753 R2	7	9	5	5	5	12
LD13-13334R1a	12	9	11	7	7	16
LD13-14327R2	5	4	2	6	3	6
LD13-14525R2	3	8	3	1	2	5
SA12-1756RR	16	17	15	17	17	17
SA13-4268RR	6	12	7	11	11	3
SA13-4304RR	12	13	16	10	9	13
SA13-4342RR	14	14	14	15	10	8
SA13-4420RR	8	6	6	14	11	1
SA13-4434RR	9	7	10	13	8	10

UNIFORM TEST III ROUNDUP READY, 2016

MATURITY (date)

Strain	Mean 10 Tests	Arthur IL	Urbana IL	Wanatah IN	West Lafayette IN	Albany MO
U03-827101 (III) (SCN)	9/24	9/24	9/23	10/3	10/5	10/5
AG3334	-0	-1	4	0	-9	2
AG3832	4	6	7	3	-1	7
U12-909109R	-5	-6	-8	-7	-12	-4
LD11-14102R	2	3	3	2	-8	1
LD12-15156 R1a	-1	1	1	-2	-10	0
LD12-15609 R2	0	1	3	-2	-9	1
LD12-15753 R2	-2	1	-2	-3	-11	2
LD13-13334R1a	-4	-8	-4	-4	-12	-4
LD13-14327R2	3	3	7	4	-3	9
LD13-14525R2	-1	0	-2	-1	-8	0
SA12-1756RR	4	7	7	2	0	2
SA13-4268RR	3	4	6	0	-3	7
SA13-4304RR	4	9	6	3	-5	3
SA13-4342RR	5	6	5	2	-3	8
SA13-4420RR	2	4	4	1	-8	3
SA13-4434RR	4	5	5	4	3	7
Date Planted	5/20	5/18	5/21	5/23	5/22	6/9
Days to Mature	127	129	125	133	136	118

UNIFORM TEST III ROUNDUP READY, 2016

YIELD RANK

Strain	Novelty MO	Portageville Clay MO	Portageville Loam MO	Clay Center NE	Wymore NE
U03-827101 (III) (SCN)	16	17	14	7	4
AG3334	7	1	8	2	2
AG3832	1	2	7	3	3
U12-909109R	17	16	16	5	12
LD11-14102R	9	3	1	8	5
LD12-15156 R1a	4	5	15	11	17
LD12-15609 R2	11	11	4	12	11
LD12-15753 R2	3	6	11	13	13
LD13-13334R1a	6	7	17	17	16
LD13-14327R2	10	4	6	4	7
LD13-14525R2	8	9	10	1	6
SA12-1756RR	5	12	5	10	14
SA13-4268RR	12	8	2	9	1
SA13-4304RR	14	10	11	14	10
SA13-4342RR	13	14	13	15	15
SA13-4420RR	15	15	3	6	9
SA13-4434RR	2	12	8	16	8

UNIFORM TEST III ROUNDUP READY, 2016

MATURITY (date)

Strain	Novelty MO	Portageville Clay MO	Portageville Loam MO	Clay Center NE	Wymore NE
U03-827101 (III) (SCN)	9/21	9/11	9/2	9/25	10/1
AG3334	1	-2	-2	1	1
AG3832	8	6	6	2	1
U12-909109R	-3	0	-1	-4	-5
LD11-14102R	5	5	5	4	1
LD12-15156 R1a	5	-2	-4	0	0
LD12-15609 R2	2	2	6	0	0
LD12-15753 R2	2	-3	-3	0	-1
LD13-13334R1a	0	-2	-9	-1	0
LD13-14327R2	8	2	3	2	0
LD13-14525R2	2	-1	-3	0	0
SA12-1756RR	7	3	3	3	3
SA13-4268RR	5	4	4	3	0
SA13-4304RR	7	7	7	2	2
SA13-4342RR	8	6	7	4	2
SA13-4420RR	4	2	6	2	1
SA13-4434RR	8	0	4	2	2
Date Planted	5/24	5/9	4/21	5/20	6/4
Days to Mature	120	125	134	128	119

UNIFORM TEST III ROUNDUP READY, 2016

LODGING (score)

Strain	Mean 10 Tests	Arthur IL	Urbana IL	Wanatah IN	West Lafayette IN	Albany MO
U03-827101 (III) (SCN)	1.8	2.0	1.8	1.2	2.2	2.5
AG3334	1.5	1.5	1.3	1.0	1.2	2.5
AG3832	1.4	1.5	1.8	1.0	1.2	2.5
U12-909109R	1.4	1.0	1.0	1.0	2.0	3.0
LD11-14102R	2.3	2.8	1.8	1.0	2.8	3.5
LD12-15156 R1a	2.7	2.8	2.8	2.5	3.3	3.7
LD12-15609 R2	1.7	1.3	2.0	1.0	1.7	3.2
LD12-15753 R2	2.0	2.5	2.0	1.0	2.5	2.7
LD13-13334R1a	1.7	1.8	1.5	1.2	2.3	2.3
LD13-14327R2	2.3	2.8	2.3	1.7	2.0	4.0
LD13-14525R2	2.4	2.5	2.0	1.2	2.7	3.5
SA12-1756RR	3.7	4.3	3.5	3.8	2.8	3.3
SA13-4268RR	3.0	3.0	2.5	2.3	2.3	4.0
SA13-4304RR	2.6	3.5	2.8	2.7	2.3	3.5
SA13-4342RR	2.9	3.5	2.8	3.0	2.2	3.7
SA13-4420RR	1.5	1.8	1.3	1.2	1.3	2.3
SA13-4434RR	1.3	1.5	1.0	1.0	1.3	2.0

UNIFORM TEST III ROUNDUP READY, 2016

PLANT HEIGHT (inches)

Strain	Mean 9 Tests	Arthur IL	Urbana IL	Wanatah IN	West Lafayette IN	Albany MO
U03-827101 (III) (SCN)	39.7	39	43	42	44	41
AG3334	40.8	43	44	43	43	44
AG3832	38.8	40	43	40	41	41
U12-909109R	30.6	31	34	36	33	34
LD11-14102R	38.6	41	45	40	41	37
LD12-15156 R1a	41.3	49	47	42	46	40
LD12-15609 R2	38.4	42	45	41	39	40
LD12-15753 R2	39.9	44	44	41	42	42
LD13-13334R1a	41.8	45	44	45	46	42
LD13-14327R2	42.4	44	48	45	48	44
LD13-14525R2	41.6	46	46	43	45	43
SA12-1756RR	46.6	44	48	50	48	47
SA13-4268RR	39.9	44	46	40	44	42
SA13-4304RR	45.3	49	50	48	52	44
SA13-4342RR	39.5	42	45	41	44	39
SA13-4420RR	42.0	44	47	43	45	43
SA13-4434RR	41.3	45	45	42	46	43

UNIFORM TEST III ROUNDUP READY, 2016

LODGING (score)

Strain	Novelty MO	Portageville Clay MO	Portageville Loam MO	Clay Center NE	Wymore NE
U03-827101 (III) (SCN)	2.7	1.7	1.7	1.5	1.0
AG3334	2.5	1.7	1.0	1.5	1.0
AG3832	2.5	1.0	1.0	1.0	1.0
U12-909109R	1.8	1.0	1.0	1.0	1.0
LD11-14102R	3.2	1.7	1.3	3.0	2.0
LD12-15156 R1a	4.0	2.7	2.0	1.5	2.0
LD12-15609 R2	3.0	1.3	1.0	1.5	1.0
LD12-15753 R2	3.7	2.0	1.3	1.5	1.0
LD13-13334R1a	2.8	2.0	1.3	1.0	1.0
LD13-14327R2	2.8	1.7	1.0	2.0	3.0
LD13-14525R2	3.7	2.0	2.0	1.5	2.5
SA12-1756RR	4.3	3.7	3.3	4.5	3.5
SA13-4268RR	3.3	2.3	1.7	4.0	4.5
SA13-4304RR	2.8	2.7	1.7	2.0	2.5
SA13-4342RR	2.7	2.7	1.7	3.5	3.5
SA13-4420RR	2.2	1.0	1.5	1.5	1.0
SA13-4434RR	1.8	1.0	1.0	1.0	1.0

UNIFORM TEST III ROUNDUP READY, 2016

PLANT HEIGHT (inches)

Strain	Novelty MO	Portageville Clay MO	Portageville Loam MO	Clay Center NE	Wymore NE
U03-827101 (III) (SCN)	39	35	31		44
AG3334	44	33	27		46
AG3832	39	33	29		43
U12-909109R	33	22	22		32
LD11-14102R	40	35	27		41
LD12-15156 R1a	42	31	26		50
LD12-15609 R2	40	30	27		42
LD12-15753 R2	41	32	27		47
LD13-13334R1a	45	36	27		47
LD13-14327R2	43	37	28		45
LD13-14525R2	43	35	29		46
SA12-1756RR	49	41	33		59
SA13-4268RR	40	34	25		45
SA13-4304RR	46	41	32		47
SA13-4342RR	39	36	28		42
SA13-4420RR	40	37	33		47
SA13-4434RR	42	33	30		46

UNIFORM TEST III ROUNDUP READY, 2016

SEED SIZE (g/100)

Strain	Mean 10 Tests	Arthur IL	Urbana IL	Wanatah IN	West Lafayette IN	Albany MO
U03-827101 (III) (SCN)	16.5	16.6	18.5	15.4	18.6	18.2
AG3334	17.3	18.3	18.5	17.9	20.3	18.4
AG3832	17.2	18.0	18.6	18.5	19.4	17.7
U12-909109R	16.3	15.5	15.9	15.7	17.4	17.8
LD11-14102R	16.7	17.3	17.8	17.0	18.5	18.2
LD12-15156 R1a	16.6	16.6	17.9	16.9	18.8	17.9
LD12-15609 R2	15.7	15.4	17.7	16.5	17.4	17.4
LD12-15753 R2	16.9	17.2	16.8	17.6	19.8	18.7
LD13-13334R1a	14.4	13.9	14.6	15.1	15.4	15.3
LD13-14327R2	16.4	16.8	17.9	17.6	18.2	18.1
LD13-14525R2	15.4	15.0	15.6	16.0	17.6	17.3
SA12-1756RR	13.1	13.1	13.6	12.5	14.7	13.6
SA13-4268RR	14.0	13.6	14.9	13.9	14.8	15.5
SA13-4304RR	14.6	15.2	15.4	14.8	16.2	16.0
SA13-4342RR	16.0	17.2	16.7	16.2	17.5	17.1
SA13-4420RR	13.2	13.7	14.0	12.9	14.5	15.0
SA13-4434RR	14.7	14.6	15.6	15.2	16.9	16.4

UNIFORM TEST III ROUNDUP READY, 2016

SEED QUALITY (score)

Strain	Mean 10 Tests	Arthur IL	Urbana IL	Wanatah IN	West Lafayette IN	Albany MO
U03-827101 (III) (SCN)	1.6	2.0	2.0	1.0	1.5	2.0
AG3334	1.5	2.0	2.0	1.0	1.0	2.0
AG3832	1.6	2.0	2.0	1.5	1.5	1.5
U12-909109R	1.8	2.0	2.0	1.0	1.0	2.2
LD11-14102R	1.6	2.0	2.0	1.0	1.0	2.2
LD12-15156 R1a	1.6	2.0	2.0	1.0	1.5	1.5
LD12-15609 R2	1.4	2.0	2.0	1.0	1.0	1.5
LD12-15753 R2	1.6	2.0	2.0	1.0	1.5	1.5
LD13-13334R1a	1.7	2.0	2.0	1.0	1.0	2.2
LD13-14327R2	1.7	2.0	2.0	1.0	1.5	2.0
LD13-14525R2	1.7	2.0	2.0	1.0	1.5	2.0
SA12-1756RR	1.6	2.0	2.0	1.0	1.0	1.7
SA13-4268RR	1.3	1.0	2.0	1.0	1.0	1.5
SA13-4304RR	1.6	2.0	1.0	1.0	1.0	2.0
SA13-4342RR	1.6	2.0	2.0	1.0	1.0	1.7
SA13-4420RR	1.6	2.0	2.0	1.0	1.5	2.2
SA13-4434RR	1.5	1.0	2.0	1.0	1.0	2.0

UNIFORM TEST III ROUNDUP READY, 2016

SEED SIZE (g/100)

Strain	Novelty MO	Portageville Clay MO	Portageville Loam MO	Clay Center NE	Wymore NE
U03-827101 (III) (SCN)	14.9	13.8	13.1	16.8	18.9
AG3334	15.5	14.1	14.7	15.9	19.1
AG3832	16.8	14.8	14.3	15.8	18.0
U12-909109R	14.2	16.8	15.6	17.4	17.1
LD11-14102R	16.2	14.6	13.7	16.1	17.5
LD12-15156 R1a	16.3	14.2	13.4	16.0	17.9
LD12-15609 R2	14.3	13.2	13.3	14.4	17.2
LD12-15753 R2	16.7	13.7	14.4	16.1	17.6
LD13-13334R1a	14.2	13.4	12.2	13.8	16.3
LD13-14327R2	15.7	13.8	13.3	15.3	17.6
LD13-14525R2	14.8	13.1	11.9	15.6	16.9
SA12-1756RR	12.9	11.2	12.0	13.8	13.6
SA13-4268RR	13.4	12.8	12.0	14.0	15.5
SA13-4304RR	14.1	13.1	13.2	13.1	14.9
SA13-4342RR	15.7	13.6	13.0	16.3	16.8
SA13-4420RR	12.5	11.2	10.8	12.8	14.7
SA13-4434RR	15.0	12.2	12.6	13.5	15.4

UNIFORM TEST III ROUNDUP READY, 2016

SEED QUALITY (score)

Strain	Novelty MO	Portageville Clay MO	Portageville Loam MO	Clay Center NE	Wymore NE
U03-827101 (III) (SCN)	1.5	1.0	2.0	1.0	2.0
AG3334	1.5	1.0	2.0	1.0	1.0
AG3832	1.8	2.3	1.7	1.0	1.0
U12-909109R	1.5	2.7	3.3	1.0	1.0
LD11-14102R	1.8	2.3	2.0	1.0	1.0
LD12-15156 R1a	1.5	2.0	2.7	1.0	1.0
LD12-15609 R2	1.7	1.0	1.7	1.0	1.0
LD12-15753 R2	1.5	2.0	2.0	1.0	1.0
LD13-13334R1a	1.5	2.0	3.0	1.0	1.0
LD13-14327R2	1.7	2.0	1.7	2.0	1.0
LD13-14525R2	1.7	1.3	2.0	2.0	1.0
SA12-1756RR	1.5	2.0	1.0	2.0	2.0
SA13-4268RR	1.5	1.0	1.3	2.0	1.0
SA13-4304RR	2.0	2.0	1.3	2.0	2.0
SA13-4342RR	1.5	1.0	1.3	2.0	2.0
SA13-4420RR	1.5	1.0	1.0	2.0	2.0
SA13-4434RR	1.7	1.0	1.3	2.0	2.0

UNIFORM TEST III ROUNDUP READY, 2016

PROTEIN (%)

Strain	Mean 5 Tests	Arthur IL	Urbana IL	West Lafayette IN	Clay Center NE	Wymore NE
U03-827101 (III) (SCN)	36.0	35.6	36.1	36.6	35.7	36.0
AG3334	35.9	35.8	36.3	36.6	35.3	35.5
AG3832	35.1	34.6	35.4	35.4	34.8	35.5
U12-909109R	33.8	33.2	33.1	34.4	33.8	34.3
LD11-14102R	35.0	35.0	34.6	35.8	34.5	35.1
LD12-15156 R1a	33.5	33.4	33.3	34.1	32.7	33.9
LD12-15609 R2	34.6	34.0	34.4	34.7	34.8	35.1
LD12-15753 R2	35.3	35.5	35.5	35.5	34.7	35.6
LD13-13334R1a	33.7	33.6	33.2	34.4	33.8	33.5
LD13-14327R2	35.6	35.7	35.7	36.6	34.7	35.3
LD13-14525R2	34.6	34.8	33.6	35.4	34.3	35.0
SA12-1756RR	35.4	35.3	35.9	36.5	34.2	35.2
SA13-4268RR	35.0	35.2	34.7	35.1	35.0	34.9
SA13-4304RR	35.2	35.2	34.5	36.0	35.0	35.2
SA13-4342RR	36.8	37.3	36.6	37.3	36.7	36.1
SA13-4420RR	34.3	33.7	34.2	34.7	34.3	34.5
SA13-4434RR	34.8	34.1	34.3	35.7	34.7	35.0

UNIFORM TEST III ROUNDUP READY, 2016

OIL (%)

Strain	Mean 5 Tests	Arthur IL	Urbana IL	West Lafayette IN	Clay Center NE	Wymore NE
U03-827101 (III) (SCN)	18.8	19.4	19.2	19.1	18.2	18.3
AG3334	18.6	19.2	19.0	18.9	17.6	18.2
AG3832	18.7	19.7	19.0	19.4	17.6	18.0
U12-909109R	20.0	20.9	20.6	20.4	19.3	19.1
LD11-14102R	19.6	20.2	20.1	19.9	18.5	19.1
LD12-15156 R1a	19.7	20.2	20.2	20.3	18.7	19.0
LD12-15609 R2	19.4	20.2	19.9	19.9	18.3	18.8
LD12-15753 R2	19.7	20.1	20.2	20.3	18.9	18.9
LD13-13334R1a	19.8	20.7	20.0	20.1	18.6	19.6
LD13-14327R2	18.9	19.3	19.5	19.2	17.9	18.7
LD13-14525R2	19.4	19.8	20.2	19.7	18.4	18.8
SA12-1756RR	18.0	18.8	18.2	18.1	17.6	17.5
SA13-4268RR	17.8	18.4	18.1	18.3	16.9	17.6
SA13-4304RR	18.0	18.7	18.5	18.3	17.2	17.6
SA13-4342RR	18.1	18.8	18.4	18.2	17.3	17.9
SA13-4420RR	18.9	19.6	19.4	19.2	17.6	18.4
SA13-4434RR	18.7	19.6	19.0	18.9	17.8	18.2

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UNIFORM TEST IV Roundup-Ready, 2016

Ent.	Strain	Parentage	Seed Source	Previous Testing	Gen. Comp.	Unique Traits
1	AG4033 (IV)		Monsanto	1		
2	AG3832		Monsanto	4		RR, SCN
3	AG4232		Monsanto	3		RR, SCN
4	LD11-13948R	LD02-5124W x (LD00-3309 x MonsantoRR2)	Diers	3	F5	RR2, SCN
5	LD13-14460R1	WN0800105 x LD06-14187R	Diers		F5	RR1
6	SA11-9478RR	S06-10572RR x S08-115	Scaboo	2	F5	RR1

UNIFORM TEST IV ROUNDUP READY, 2016

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	Shattering	Frogeye	SDS Data		
		Score Man- hattan	Shawnee- town FLS Severity	Shaw SDS DX	Shawneetown and Valmeyer, IL Val SDS DX	Mean SDS Mean DX
AG4033 (IV)	PGTDYDbfI	1.0	5.0	3.3	0.0	1.7
AG3832	PGTSYDibI	1.0	6.5	4.2	0.3	2.3
AG4232	PGTIYDibI	1.0	8.0	11.1	1.8	6.5
SA11-9478RR	WGTSYBfI	1.0	0.0	8.3	3.3	5.8
LD11-13948R	PTBDYDbrI	1.0	4.5	3.9	0.0	1.9
LD13-14460R1	PTBIYDbrI	1.0	7.0	5.0	0.0	2.5
		Mean	4.8	10.6	7.9	
		P>F	<.0001	<.0001	<.0001	
		LSD	1.6	8.3	6.7	

UNIFORM TEST IV ROUNDUP READY, 2016

REGIONAL SUMMARY

No. of Tests Strain	Yield 6 bu/a	Rank 6 No.	Maturity 6 Date	Lodging 6 Score	Plant Height 6 In.	Seed Size 6 g/100	Seed Quality 6 Score	<u>Composition</u> Protein 3 Oil 3 %	
AG4033 (IV)	76.0	1	9/27	1.5	38	15.9	1.5	36.4	18.7
AG3832	73.8	3	-0.9	1.5	38	16.9	2.0	35.8	19.2
AG4232	72.3	4	5.0	2.3	45	14.2	1.7	35.2	18.9
LD11-13948R	74.7	2	1.1	2.5	43	17.1	2.0	36.5	19.6
LD13-14460R1	69.7	6	-0.4	2.5	47	15.7	1.6	36.1	19.2
SA11-9478RR	71.1	5	1.3	2.8	45	14.1	1.9	35.9	19.1
Mean	72.9			2.2	42.3	15.3	1.8		
C.V. (%)	6.8			19.3	7.8	7.4	37.3		
L.S.D. (5%)	3.5			0.3	2.2	0.9	0.6		

132.8 Days After Planting

UNIFORM TEST IV ROUNDUP READY, 2016

2014-2016 3-Year Mean

No. of Tests Strain	Yield 18 bu/a	Rank 18 No.	Maturity 18 Date	Lodging 18 Score	Plant Height 18 In.	Seed Size 18 g/100	Seed Quality 18 Score	<u>Composition</u> Protein 13 Oil 13 %	
AG3832	64.3	4	9/29	1.3	32	16.8	2.1	35.6	18.9
AG4232	65.8	3	5.3	2.0	38	14.0	2.0	34.8	18.8
LD11-13948R	66.5	1	0.4	1.9	36	16.9	2.0	36.3	19.4
SA11-9478RR	65.9	2	1.6	2.3	39	13.6	1.8	35.3	18.9

132.8 Days After Planting

UNIFORM TEST IV ROUNDUP READY, 2016

YIELD (bu/a)

Strain	Mean 6 Tests	Neoga IL	Urbana IL	West Lafayette IN	Albany MO	Portageville Clay MO	Portageville Loam MO
AG4033 (IV)	76.0	73.4	81.1	74.3	86.4	67.2	73.3
AG3832	73.8	78.6	70.1	75.4	82.1	67.0	69.9
AG4232	72.3	77.0	75.8	66.4	76.8	61.3	76.7
LD11-13948R	74.7	79.5	72.1	69.1	85.4	66.5	75.3
LD13-14460R1	69.7	65.6	68.6	67.0	72.8	69.0	75.5
SA11-9478RR	71.1	67.9	69.3	69.7	73.4	66.4	79.7
Location Mean		73.7	72.8	70.3	79.5	66.2	75.1
C.V. (%)		3.4	5.9	5.1	5.7	5.0	3.3
L.S.D. (5%)		6.5	11.0	6.5	8.3	7.5	5.5
Row Sp. (In.)		30	30	30	30	30	30
Rows/Plot		4	4	4	4	4	4
Reps		2	2	3	3	2	2

UNIFORM TEST IV ROUNDUP READY, 2016

YIELD RANK

Strain	Yield Rank	Neoga IL	Urbana IL	West Lafayette IN	Albany MO	Portageville Clay MO	Portageville Loam MO
AG4033 (IV)	1	4	1	2	1	2	5
AG3832	3	2	4	1	3	3	6
AG4232	4	3	2	6	4	6	2
LD11-13948R	2	1	3	4	2	4	4
LD13-14460R1	6	6	6	5	6	1	3
SA11-9478RR	5	5	5	3	5	5	1

UNIFORM TEST IV ROUNDUP READY, 2016

MATURITY (date)

Strain	Mean 6 Tests	Neoga IL	Urbana IL	West Lafayette IN	Albany MO	Portageville Clay MO	Portageville Loam MO
AG4033 (IV)	9/27	9/29	10/1	10/8	10/14	9/17	9/8
AG3832	-1	-2	0	-1	-1	-2	0
AG4232	5	4	5	2	6	4	9
LD11-13948R	1	3	0	0	0	1	3
LD13-14460R1	-0	-1	0	-2	-2	1	1
SA11-9478RR	1	-1	3	3	0	1	1
Date Planted	5/18	5/25	5/21	5/22	6/9	5/9	4/21
Days to Mature	133	127	133	139	127	131	140

UNIFORM TEST IV ROUNDUP READY, 2016

LODGING (score)

Strain	Mean 6 Tests	Neoga IL	Urbana IL	West Lafayette IN	Albany MO	Portageville Clay MO	Portageville Loam MO
AG4033 (IV)	1.5	1.3	1.5	1.3	2.8	1.3	1.0
AG3832	1.5	1.3	1.8	1.2	2.8	1.0	1.0
AG4232	2.3	2.5	2.3	1.8	2.8	2.3	2.0
LD11-13948R	2.5	2.5	2.5	2.5	3.7	2.0	2.0
LD13-14460R1	2.5	2.3	2.0	2.2	3.3	2.3	3.0
SA11-9478RR	2.8	3.0	3.0	2.3	3.3	3.0	2.0

UNIFORM TEST IV ROUNDUP READY, 2016

PLANT HEIGHT (inches)

Strain	Mean 6 Tests	Neoga IL	Urbana IL	West Lafayette IN	Albany MO	Portageville Clay MO	Portageville Loam MO
AG4033 (IV)	38	38	44	43	44	36	26
AG3832	38	37	44	41	42	35	28
AG4232	45	43	48	50	58	39	34
LD11-13948R	43	44	50	49	44	39	29
LD13-14460R1	47	44	54	53	50	43	36
SA11-9478RR	45	48	48	52	51	39	31

UNIFORM TEST IV ROUNDUP READY, 2016

SEED SIZE (g/100)

Strain	Mean 6 Tests	Neoga IL	Urbana IL	West Lafayette IN	Albany MO	Portageville Clay MO	Portageville Loam MO
AG4033 (IV)	15.9	16.1	16.7	17.3	18.3	13.2	13.9
AG3832	16.9	17.1	17.4	18.4	19.8	15.0	13.7
AG4232	14.2	14.5	13.8	15.0	16.1	12.5	13.3
LD11-13948R	17.1	17.6	18.0	18.9	21.2	13.9	13.0
LD13-14460R1	15.7	15.9	15.8	17.1	16.7	14.8	13.8
SA11-9478RR	14.1	15.0	14.1	14.8	14.5	12.6	13.3

UNIFORM TEST IV ROUNDUP READY, 2016

SEED QUALITY (score)

Strain	Mean 6 Tests	Neoga IL	Urbana IL	West Lafayette IN	Albany MO	Portageville Clay MO	Portageville Loam MO
AG4033 (IV)	1.5	1.0	2.0	1.0	2.0	1.3	1.7
AG3832	2.0	2.0	3.0	1.5	1.7	1.7	2.0
AG4232	1.7	2.0	2.0	1.0	2.5	1.0	1.7
LD11-13948R	2.0	2.0	2.0	1.0	2.7	2.0	2.0
LD13-14460R1	1.6	2.0	2.0	1.0	1.3	1.3	2.0
SA11-9478RR	1.9	2.0	2.0	1.0	1.8	3.0	1.7

UNIFORM TEST IV ROUNDUP READY, 2016

PROTEIN (%)

Strain	Mean 3 Tests	Neoga IL	Urbana IL	West Lafayette IN
AG4033 (IV)	36.4	37.2	35.3	36.5
AG3832	35.8	36.2	35.7	35.5
AG4232	35.2	35.8	34.8	34.9
LD11-13948R	36.5	36.9	35.9	36.6
LD13-14460R1	36.1	36.4	36.0	36.0
SA11-9478RR	35.9	36.9	35.6	35.3

UNIFORM TEST IV ROUNDUP READY, 2016

OIL (%)

Strain	Mean 3 Tests	Neoga IL	Urbana IL	West Lafayette IN
AG4033 (IV)	18.7	19.0	18.7	18.3
AG3832	19.2	19.5	18.9	19.3
AG4232	18.9	19.3	18.7	18.8
LD11-13948R	19.6	19.7	19.7	19.5
LD13-14460R1	19.2	19.5	19.0	19.2
SA11-9478RR	19.1	19.3	19.0	19.1