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The Uniform Soybean Tests: Northern Region 2017

Gary L. Nowling

USDA-ARS Crop Production and Pest Control Research Unit, gary.nowling@ars.usda.gov

Guohong Cai

Guohong.Cai@ARS.USDA.GOV

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THE UNIFORM SOYBEAN TESTS

NORTHERN REGION

2017



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

COOPERATING WITH
STATE AGRICULTURAL EXPERIMENT STATIONS NORTHERN STATES



UNIFORM SOYBEAN TESTS

NORTHERN REGION

2017

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:
Gary L Nowling and Guohong Cai

Annual Reports are available online at:
<https://ars.usda.gov/mwa/lafayette/cppcru/ust>

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2017 UNIFORM SOYBEAN TESTS NORTHERN REGION

Data Compiled By:

Gary L. Nowling
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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Greg Gebhart, ISU, Ames, IA	Anne Gillen, USDA-ARS, Stoneville, MS
Peter Lundeen, ISU, Ames, IA	Gary Shelton, USDA-ARS, Stoneville, MS
Jennifer Hicks, ISU, Ames, IA	Ted Helms, NDSU, Fargo, ND
Mark Studt, ISU, Ames, IA	Dave Hanson, NDSU, Fargo, ND
Brian Scott, ISU, Ames, IA	George Graef, UNL, Lincoln, NE
A. K. Singh, ISU, Ames, IA	Tyler Frederick, UNL, Lincoln, NE
Troy Cary, UIL, Urbana, IL	Shawn Jenkins, UNL, Lincoln, NE
Brian Diers, UIL, Urbana, IL	Marcia Feller, OSU, Columbus, OH
Edward Johnson, USDA-ARS, Urbana, IL	Jonathan M. La Mantia, OSU, Wooster, OH
Randy L. Nelson, USDA-ARS, Urbana, IL	Leah McHale, OSU, Columbus, OH
Linda Manthey, USDA-ARS, Peoria, IL	Scott McIntyre, OSU, Wooster, OH
Annie Korando, SIU, Carbondale, IL	Christopher Nacci, OSU, Wooster, OH
Katy Martin Rainey, PU, West Lafayette, IN	Elroy R. Cober, AGR.GC.CA, Ottawa, ONT
Richard Smith, USDA-ARS, West Lafayette, IN	Kirsten Slusarenko, AGR.GC.CA, Ottawa, ONT
William T. Schapaugh, Jr., KSU, Manhattan, KS	Istvan Rajcan, UGuelph, Guelph, ONT
Randy Laurenz, MSU, East Lansing, MI	Colbey Templeton, UGuelph, Guelph, ONT
Dechun Wang, MSU, East Lansing, MI	Milad Eskandari, RC, Ridgetown, ONT
Gerald Decker, UMN, St. Paul, MN	John Kobler, RC, Ridgetown, ONT
Aaron J. Lorenz, UMN, St. Paul, MN	Jérôme Auclair, La Coop Fédérée, Saint-Hyacinthe, QUE
Darcy Weston, UMN, St. Paul, MN	Marie-Eve Claude, La Coop Fédérée, Saint-Hyacinthe, QUE
Phengyin Chen, UM, Portageville, MO	Louise O'Donoghue, CEROM, Saint-Mathieu, QUE
Michael Clubb, UM, Portageville, MO	Prakash Arelli, USDA-ARS, Jackson, TN
Melissa Crisel, UM, Portageville, MO	Lisa Fritz, USDA-ARS, Jackson, TN
Stewart Selves, UM, Portageville, MO	Vince R. Pantalone, UT, Knoxville, TN
Dennis Yungbluth, UM, Columbia, MO	Bo Zhang, VT, Blacksburg, VA

Uniform Test Participants, 2017

Uniform Test Cooperator

Technical Contact

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

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

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

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

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

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

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

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

Uniform Test Participants, 2017

Uniform Test Cooperator

Technical Contact

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

David Schlueter
Agronomy Dept.
Purdue University
Lilly Hall
West Lafayette, IN 47907
Ph: 765-494-6759
Email: dschlue@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

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

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

Randy Laurenz
Crop and Soil Science Research Farm
Michigan State University
4450 Beaumont Rd.
East Lansing, MI 48824-1325
Ph: 989-860-5353
Fax: 515-353-3515
Email: boyse@msu.edu

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

Uniform Test Participants, 2017

Uniform Test Cooperator

Technical Contact

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
Email: 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

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

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

Uniform Test Participants, 2017

Uniform Test Cooperator

Technical Contact

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

Tyler Frederick
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

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

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

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

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

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

Uniform Test Participants, 2017

Uniform Test Cooperator

Technical Contact

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 N0P 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: ctemplm@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

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

Uniform Test Participants, 2017

Uniform Test Cooperator

Technical Contact

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: 865-974-7994
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 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 REGION UT – POLICY ON EVALUATION AND RELEASE OF STRAINS

Qualifications for inclusion in the Uniform Tests:

- 1) Participants must be willing and able to conduct separate tests for conventional strains and strains containing proprietary and/or transgenic traits. However, all participants are not required to evaluate both; and, placement of proprietary entries depends on whether transgenic or non-transgenic.
- 2) Participants are individually responsible to ensure that any proprietary and/or transgenic strains that they submit are approved for human consumption and are cleared for sale as commodity seed.
- 3) Participants must disclose pedigrees to the Uniform Test Coordinator for publication with performance data in Uniform Soybean Test Report unless contract arrangements prohibit disclosure of information.
- 4) It is recommended that breeders obtain written permission for the use of privately developed varieties or strains that are used as parents in the development of lines included in the Uniform Tests.

Use of Uniform Test entries in soybean breeding and research:

- 1) Seed of Uniform Test entries is for evaluation in the Uniform Tests only and may not be distributed to non-participants in these tests without prior approval by the originator of the entry.
- 2) 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/Speccht-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, LW=D. Walker)
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.
T	Soybean Genetic Type Collection, USDA, Urbana, IL
Ts	Texas A.E.S.
U	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 Compositd is the generation after the final single-plant selection, when seeds from plants or rows are composited.

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

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

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

Group	Reference:	Range	Early check	Late check
00	MN0071			MN0095 (0)
0	Sheyenne		MN0095 (E)	MN1410 (I)
I	MN1410		Sheyenne (0)	IA1022 (SCN)
II	IA2102		IA1022 (SCN)	U11-920017
III	LD2170		U11-920017	LD07-3395bf (SCN)
IV	LD06-7620		LD07-3395bf (SCN)	LD00-2817 (L)
00RR	AG00632		AG00133	AG00932
0RR	AG0532		AG0231 (E)	AG1234
1RR	AG1733		AG1234 (E)	AG2031
IIRR	IA2102		AG2031 (E)	AG2535
IIIRR	LD2170			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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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 - 10% shattered

3 = 10 - 25% shattered

4 = 25 - 50% shattered

5 = > - 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 - 95%

3 = 85 - 90%

4 = 76 - 84%

5 < 76%

Methods

Oil and Protein. Oil and protein percentages were determined from representative locations of the uniform and preliminary tests. A 50-ml composite sample from all replications of a strain in trial was sent to the USDA-ARS, National Center for Agricultural Utilization Research, Bio-Oils Research Unit at Peoria, Illinois for analysis. One sample of 20ml of whole seed was analyzed for protein and oil composition by near infrared transmittance analysis (NIT) using an IM 9500 Grain Analyzer (Perten Instruments AB, Sweden). Analysis of the seed was conducted on an 'as is' basis and then mathematically converted to a 13% moisture basis (13%) beginning in 2015. Prior to 2015 protein and oil percentages were reported on a dry weight basis (DWB). The conversion factor is 1.1494252 to convert from 13% to DW. The conversion factor is 0.87 to convert DW to 13%.

Validation of the protein and oil percentages are done with combustion method and pulsed Nuclear Magnetic Resonance and AOCS method Ac 2-41 respectively. Lines that were expected to have high oleic (HO) acid percentage, over 75% oleic fatty acid, were analyzed using a CHN 628 (Leco, MI, USA) combustion analysis to verify the protein content; random samples of non-HO beans were also analyzed for comparison. Seed samples are ground in a coffee mill then dried at 85 °C for one hour then analyzed with data compared on a DWB. Pulsed Nuclear Magnetic Resonance, Bruker mq20 (Bruker Corporation, The Woodlands, TX) calibrated to report grams of oil in known grams of seed weight while the AOCS method obtains the moisture content for a DWB oil percentage. Protein values on a 13% moisture basis based on this method are reported only for lines designated at having high oleic acid in the parentage table.

Amino Acids. Seed amino acid percentages were determined for strains expected to have modified amino acid percentages and normal checks from representative locations of the uniform and preliminary tests. A composite sample from all replications of a strain in a trial was sent to the University of Missouri Experiment Station Chemical Laboratories (ESCL) for analysis of crude protein and amino acids using the "Cysteine, Methionine, Lysine +9" analysis.

Fatty Acids. Fatty acid analysis of strains expected to have oleic acid levels over 75% and normal checks were determined from representative locations of the uniform and preliminary tests. Percent palmitic, stearic, oleic, linoleic and linolenic acid content in the oil were determined. A 30-gram composite seed sample of all replications of a strain in a trial was sent to Dr. Pengyin Chen, University of Missouri, Delta Center, Portageville, MO for analysis.

Mr. Stewart Selves at University of Missouri – Delta Center conducted the fatty acid analysis using a five-seed sample placed in an envelope and manually crushed with a hammer. Crushed seeds were extracted in 5mL chloroform: hexane: methanol (8:5:2, v/v/v) overnight. Derivatization was done by transferring 100 µL of extract to vial and adding 75 µL of methylating reagent (0.25 M methanolic sodium methoxide: petroleum ether: ethyl ether, 1:5:2 v/v/v). Hexane was added to dilute samples to approximately 1 mL. An Agilent (Palo Alto, CA) series 7890 capillary gas chromatograph fitted with a flame ionization detector (275°C) was used with an AT-Silar capillary column (Alltech Associates, Deerfield, IL). Standard fatty acid mixtures (Animal and Vegetable Oil Reference Mixture 6, AOACS) were used as calibration reference standards.

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
Percent 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 sojina</u>
NSC	Northern Stem canker	<u>Diaporthe phaseolorum</u> var. <u>caulivora</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>
SCL	Sclerotinia stem rot	<u>Sclerotinia sclerotiorum</u>
SDS	Sudden death syndrome	<u>Fusarium virguliforme</u> , (<u>E. solani</u> f.sp.
SMV	Soybean mosaic virus	Soybean mosaic virus
TS	Target spot	<u>Corynespora cassiicola</u>
YMV	Yellow mosaic virus	Yellow mosaic virus

Disease Methods

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.

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 x DS/9)

Minnesota Iron Chlorosis Scores (IDC): Scores are the values on the average of 2 observations, 2 reps taken July 12 and July 27, 2017. Data was collected from Danvers, Minnesota. Planting date: June 1, 2017.

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. Now, 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 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

Procedure for Testing and Release of Strains

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, 2017

Variety	Experimental Designation	Uniform Test Evaluations
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
ND17009GT	Jan. 2017	North Dakota	2016
ND10-3464	Jan. 2017	North Dakota	2016
ND Stutsman	Jan. 2017	North Dakota	2016

Disease Data, 2017

State/ Province	Location	Conducted By:	Tests	UT	PT	UTRR
IN	West Lafayette	G. Cai / T. Fleury	PR Evaluations	00-IV	0-IV	00-IV
MN	Danvers	A. Lorenz	Fe Chlorosis (IDC)	00-II	00-II	00-II
OH	South Charleston	L. McHale	Green Stem	III-IV	III	

	<i>Isolate</i>	<i>ISA 124 C-1 Rce 1</i>		<i>ISA 45 B-1</i>	
	<i>Dates rated</i>	<i>6/6/2017</i>		<i>7/31/2017</i>	
<i>Differential Name</i>	<i>Rps gene</i>	<i>% Dead</i>	<i># D/T</i>	<i>% Dead</i>	<i># D/T</i>
<i>Williams</i>	<i>rps</i>	100%	12/12	90%	9/10
<i>Union</i>	<i>1a</i>	20%	2/10	83%	5/6
<i>Haro 13</i>	<i>1b</i>	30%	3/10	100%	5/5
<i>Williams 79</i>	<i>1c</i>	0%	0/11	80%	4/5
<i>Haro 16</i>	<i>1d</i>	0%	0/12	17%	2/12
<i>Williams 82</i>	<i>1k</i>	0%	0/12	71%	5/7
<i>L76-1988</i>	<i>2</i>	25%	3/12	0%	0/6
<i>PI 171442</i>	<i>3a</i>	0%	0/12	0%	0/10
<i>PRX 146-36</i>	<i>3b</i>	0%	0/7	44%	4/9
<i>PRX 145-48</i>	<i>3c</i>	0%	0/12	0%	0/9
<i>L85-2352</i>	<i>4</i>	0%	0/12	11%	1/9
<i>L85-3059</i>	<i>5</i>	10%	1/10	11%	1/9
<i>Harosoy 62</i>	<i>6</i>	30%	3/10	0%	0/11
<i>Harosoy</i>	<i>7</i>	50%	12/24	57%	12/21
<i>PI 399073</i>	<i>8</i>	0%	0/9	0%	0/5
<i>Strain</i>	<i>MG / Ent #</i>	<i>% Dead</i>	<i># D/T</i>	<i>% Dead</i>	<i># D/T</i>
<i>MN0071 (00)</i>	<i>UT00 1</i>	0%	0/12	50%	6/12
<i>MN0095 (0)</i>	<i>UT00 2</i>	0%	0/11	50%	4/8
<i>ND Henson</i>	<i>UT00 3</i>	0%	0/12	18%	2/11
<i>M10-207102</i>	<i>UT00 4</i>	0%	0/12	91%	10/11
<i>M11-238102</i>	<i>UT00 5</i>	0%	0/12	0%	0/12
<i>M11-253-4066</i>	<i>UT00 6</i>	0%	0/12	0%	0/12
<i>M11-271059</i>	<i>UT00 7</i>	9%	1/11	82%	9/11
<i>M11-271062</i>	<i>UT00 8</i>	11%	1/9	91%	10/11
<i>M11-291118</i>	<i>UT00 9</i>	9%	1/11	100%	11/11
<i>ND12-15628</i>	<i>UT00 10</i>	0%	0/11	92%	11/12
<i>ND12-15647</i>	<i>UT00 11</i>	0%	0/11	100%	12/12
<i>ND14-2194</i>	<i>UT00 12</i>	42%	5/12	33%	4/12
<i>ND14-2631</i>	<i>UT00 13</i>	0%	0/12	50%	5/10
<i>ND14-2678</i>	<i>UT00 14</i>	0%	0/12	100%	12/12
<i>ND14-3068</i>	<i>UT00 15</i>	0%	0/12	25%	3/12
<i>ND14-3442</i>	<i>UT00 16</i>	0%	0/11	8%	1/12
<i>ND14-4455</i>	<i>UT00 17</i>	91%	10/11	92%	11/12
<i>ND14-4462</i>	<i>UT00 18</i>	0%	0/11	100%	12/12
<i>ND14-4468</i>	<i>UT00 19</i>	100%	9/9	92%	11/12
<i>ND14-5440</i>	<i>UT00 20</i>	0%	0/11	100%	11/11
<i>OAC 14-05C</i>	<i>UT00 21</i>	0%	0/12	100%	12/12

Dorrance Race 7		Dorrance Race 17		ISA R2T21 A-1 Race 25	
8/14/2017		7/17/2017		6/26/2017	
% Dead	# D/T	% Dead	# D/T	% Dead	# D/T
73%	8/11	80%	8/10	100%	11/11
89%	8/9	0%	0/8	100%	12/12
0%	0/9	71%	5/7	100%	12/12
0%	0/12	50%	5/10	91%	10/11
36%	4/11	100%	11/11	91%	10/11
0%	0/10	100%	9/9	100%	10/10
67%	4/6	71%	5/7	50%	6/12
100%	10/10	100%	9/9	0%	0/7
0%	0/10	100%	10/10	0%	0/11
89%	8/9	88%	7/8	50%	4/8
90%	9/10	83%	5/6	0%	0/11
89%	8/9	67%	4/6	11%	1/9
82%	9/11	82%	9/11	0%	0/9
65%	11/17	89%	16/18	81%	17/21
60%	3/5	100%	3/3	0%	0/8
% Dead	# D/T	% Dead	# D/T	% Dead	# D/T
100%	12/12	0%	0/9	100%	11/11
100%	10/10	0%	0/10	82%	9/11
33%	4/12	100%	9/9	18%	2/11
64%	7/11	42%	5/12	100%	12/12
0%	0/11	82%	9/11	9%	1/11
17%	2/12	91%	10/11	0%	0/12
82%	9/11	8%	1/12	100%	12/12
83%	10/12	9%	1/11	100%	12/12
0%	0/12	100%	11/11	100%	12/12
0%	0/11	91%	10/11	92%	11/12
0%	0/12	100%	12/12	100%	12/12
83%	10/12	100%	12/12	42%	5/12
100%	12/12	0%	0/11	8%	1/12
0%	0/12	91%	10/11	100%	12/12
0%	0/12	82%	9/11	25%	3/12
0%	0/11	100%	12/12	17%	2/12
92%	11/12	100%	12/12	100%	12/12
0%	0/12	92%	11/12	100%	11/11
100%	12/12	100%	11/11	100%	12/12
0%	0/12	58%	7/12	100%	12/12
92%	11/12	27%	3/11	100%	12/12

	<i>Isolate</i>	ISA 124 C-1 Rce 1		ISA 45 B-1	
	<i>Dates rated</i>	6/6/2017		7/31/2017	
<i>Differential Name</i>	Rps gene	% Dead	# D/T	% Dead	# D/T
<i>Williams</i>	<i>rps</i>	100%	12/12	90%	9/10
<i>Union</i>	1a	20%	2/10	83%	5/6
<i>Haro 13</i>	1b	30%	3/10	100%	5/5
<i>Williams 79</i>	1c	0%	0/11	80%	4/5
<i>Haro 16</i>	1d	0%	0/12	17%	2/12
<i>Williams 82</i>	1k	0%	0/12	71%	5/7
<i>L76-1988</i>	2	25%	3/12	0%	0/6
<i>PI 171442</i>	3a	0%	0/12	0%	0/10
<i>PRX 146-36</i>	3b	0%	0/7	44%	4/9
<i>PRX 145-48</i>	3c	0%	0/12	0%	0/9
<i>L85-2352</i>	4	0%	0/12	11%	1/9
<i>L85-3059</i>	5	10%	1/10	11%	1/9
<i>Harosoy 62</i>	6	30%	3/10	0%	0/11
<i>Harosoy</i>	7	50%	12/24	57%	12/21
<i>PI 399073</i>	8	0%	0/9	0%	0/5
<i>Strain</i>	MG / Ent #	% Dead	# D/T	% Dead	# D/T
<i>Sheyenne (0)</i>	UT0 1	0%	0/11	92%	11/12
<i>MN0095 (E)</i>	UT0 2	0%	0/9	71%	5/7
<i>MN0404CN (SCN)</i>	UT0 3	0%	0/12	18%	2/11
<i>MN1410 (I)</i>	UT0 4	64%	7/11	100%	11/11
<i>M07-260028</i>	UT0 5	86%	6/7	43%	3/7
<i>M08-359053</i>	UT0 6	100%	1/1	67%	4/6
<i>M08-362045</i>	UT0 7	82%	9/11	92%	11/12
<i>M09-251081</i>	UT0 8	0%	0/2	88%	7/8
<i>M09-269045</i>	UT0 9	86%	6/7	90%	9/10
<i>M09-305144</i>	UT0 10	44%	4/9	57%	4/7
<i>M10-186021</i>	UT0 11	91%	10/11	92%	11/12
<i>M11-120121</i>	UT0 12	0%	0/2	50%	2/4
<i>M11-131044</i>	UT0 13	9%	1/11	100%	9/9
<i>M11-244115</i>	UT0 14	18%	2/11	58%	7/12
<i>M11-244139</i>	UT0 15	0%	0/12	92%	11/12
<i>M11-245026</i>	UT0 16	0%	0/12	100%	12/12
<i>M11-271064</i>	UT0 17	73%	8/11	83%	10/12
<i>M11-276036</i>	UT0 18	0%	0/11	100%	12/12
<i>M11-278003</i>	UT0 19	0%	0/9	25%	3/12
<i>M11-279046</i>	UT0 20	0%	0/12	100%	11/11
<i>M11-298308</i>	UT0 21	100%	12/12	92%	11/12
<i>M11-337015</i>	UT0 22	91%	10/11	100%	12/12
<i>M11-377115</i>	UT0 23	0%	0/11	100%	12/12
<i>MBC11-424-1-25</i>	UT0 24	64%	7/11	92%	11/12
<i>MBC11-424-1-48</i>	UT0 25	45%	5/11	60%	6/10
<i>MBC11-425-5-002</i>	UT0 26	0%	0/12	91%	10/11
<i>MBC11-425-5-010</i>	UT0 27	0%	0/11	91%	10/11
<i>ND10-2763</i>	UT0 28	0%	0/12	55%	6/11
<i>ND10-3067</i>	UT0 29	0%	0/12	100%	12/12
<i>ND10-3464</i>	UT0 30	0%	0/12	33%	4/12

Dorrance Race 7		Dorrance Race 17		ISA R2T21 A-1 Race 25	
8/14/2017		7/17/2017		6/26/2017	
% Dead	# D/T	% Dead	# D/T	% Dead	# D/T
73%	8/11	80%	8/10	100%	11/11
89%	8/9	0%	0/8	100%	12/12
0%	0/9	71%	5/7	100%	12/12
0%	0/12	50%	5/10	91%	10/11
36%	4/11	100%	11/11	91%	10/11
0%	0/10	100%	9/9	100%	10/10
67%	4/6	71%	5/7	50%	6/12
100%	10/10	100%	9/9	0%	0/7
0%	0/10	100%	10/10	0%	0/11
89%	8/9	88%	7/8	50%	4/8
90%	9/10	83%	5/6	0%	0/11
89%	8/9	67%	4/6	11%	1/9
82%	9/11	82%	9/11	0%	0/9
65%	11/17	89%	16/18	81%	17/21
60%	3/5	100%	3/3	0%	0/8
% Dead	# D/T	% Dead	# D/T	% Dead	# D/T
33%	4/12	22%	2/9	100%	12/12
100%	10/10	11%	1/9	100%	11/11
0%	0/9	75%	9/12	25%	3/12
100%	11/11	60%	6/10	100%	12/12
78%	7/9	100%	6/6	100%	10/10
100%	5/5	60%	3/5	100%	5/5
100%	12/12	92%	11/12	92%	11/12
100%	6/6	0%	0/5	100%	4/4
89%	8/9	83%	5/6	100%	5/5
100%	10/10	0%	0/8	43%	3/7
100%	11/11	100%	11/11	91%	10/11
0%	0/7	0%	0/5	100%	5/5
25%	3/12	92%	11/12	100%	12/12
91%	10/11	0%	0/10	83%	10/12
90%	9/10	0%	0/12	100%	11/11
0%	0/12	100%	10/10	100%	11/11
100%	12/12	100%	11/11	100%	12/12
83%	10/12	8%	1/12	100%	11/11
100%	10/10	100%	12/12	0%	0/12
0%	0/10	100%	12/12	100%	12/12
92%	11/12	92%	11/12	100%	10/10
91%	10/11	92%	11/12	100%	12/12
10%	1/10	100%	12/12	100%	12/12
8%	1/12	100%	12/12	100%	12/12
0%	0/11	100%	11/11	67%	8/12
0%	0/12	100%	12/12	100%	12/12
9%	1/11	92%	11/12	100%	12/12
33%	4/12	82%	9/11	75%	9/12
0%	0/12	100%	11/11	100%	11/11
100%	12/12	100%	11/11	18%	2/11

	<i>Isolate</i>	ISA 124 C-1 Rce 1		ISA 45 B-1	
	<i>Dates rated</i>	6/6/2017		7/31/2017	
<i>Differential Name</i>	Rps gene	% Dead	# D/T	% Dead	# D/T
<i>Williams</i>	<i>rps</i>	100%	12/12	90%	9/10
<i>Union</i>	1a	20%	2/10	83%	5/6
<i>Haro 13</i>	1b	30%	3/10	100%	5/5
<i>Williams 79</i>	1c	0%	0/11	80%	4/5
<i>Haro 16</i>	1d	0%	0/12	17%	2/12
<i>Williams 82</i>	1k	0%	0/12	71%	5/7
<i>L76-1988</i>	2	25%	3/12	0%	0/6
<i>PI 171442</i>	3a	0%	0/12	0%	0/10
<i>PRX 146-36</i>	3b	0%	0/7	44%	4/9
<i>PRX 145-48</i>	3c	0%	0/12	0%	0/9
<i>L85-2352</i>	4	0%	0/12	11%	1/9
<i>L85-3059</i>	5	10%	1/10	11%	1/9
<i>Harosoy 62</i>	6	30%	3/10	0%	0/11
<i>Harosoy</i>	7	50%	12/24	57%	12/21
<i>PI 399073</i>	8	0%	0/9	0%	0/5
<i>Strain</i>	MG / Ent #	% Dead	# D/T	% Dead	# D/T
<i>ND12-19542</i>	UT0 31	0%	0/12	90%	9/10
<i>ND13-4508</i>	UT0 32	0%	0/12	91%	10/11
<i>ND13-7564</i>	UT0 33	70%	7/10	92%	11/12
<i>ND13-7810</i>	UT0 34	0%	0/12	100%	12/12
<i>ND13-8691</i>	UT0 35	8%	1/12	67%	8/12
<i>ND13-8892</i>	UT0 36	100%	11/11	100%	12/12
<i>ND13-8894</i>	UT0 37	92%	11/12	92%	11/12
<i>ND13-9073</i>	UT0 38	92%	11/12	100%	12/12
<i>ND14-2373</i>	UT0 39	0%	0/12	100%	12/12
<i>ND14-2661</i>	UT0 40	0%	0/12	36%	4/11
<i>ND14-2671</i>	UT0 41	0%	0/12	8%	1/12
<i>ND14-2677</i>	UT0 42	8%	1/12	50%	6/12
<i>OAC 15-06C</i>	UT0 43	67%	8/12	100%	12/12
<i>OAC 15-11C</i>	UT0 44	100%	12/12	82%	9/11
<i>OAC 15-13C</i>	UT0 45	75%	9/12	75%	9/12
<i>OAC 15-15C</i>	UT0 46	58%	7/12	73%	8/11

Dorrance Race 7		Dorrance Race 17		ISA R2T21 A-1 Race 25	
8/14/2017		7/17/2017		6/26/2017	
% Dead	# D/T	% Dead	# D/T	% Dead	# D/T
73%	8/11	80%	8/10	100%	11/11
89%	8/9	0%	0/8	100%	12/12
0%	0/9	71%	5/7	100%	12/12
0%	0/12	50%	5/10	91%	10/11
36%	4/11	100%	11/11	91%	10/11
0%	0/10	100%	9/9	100%	10/10
67%	4/6	71%	5/7	50%	6/12
100%	10/10	100%	9/9	0%	0/7
0%	0/10	100%	10/10	0%	0/11
89%	8/9	88%	7/8	50%	4/8
90%	9/10	83%	5/6	0%	0/11
89%	8/9	67%	4/6	11%	1/9
82%	9/11	82%	9/11	0%	0/9
65%	11/17	89%	16/18	81%	17/21
60%	3/5	100%	3/3	0%	0/8
% Dead	# D/T	% Dead	# D/T	% Dead	# D/T
0%	0/11	75%	9/12	100%	12/12
0%	0/12	75%	9/12	100%	12/12
92%	11/12	92%	11/12	100%	11/11
0%	0/12	73%	8/11	92%	11/12
0%	0/10	92%	11/12	83%	10/12
92%	11/12	100%	12/12	100%	12/12
100%	12/12	100%	12/12	100%	12/12
100%	12/12	100%	12/12	100%	12/12
0%	0/12	100%	12/12	100%	12/12
100%	11/11	0%	0/11	8%	1/12
0%	0/11	44%	4/9	0%	0/12
0%	0/12	83%	10/12	8%	1/12
100%	12/12	92%	11/12	100%	12/12
100%	12/12	50%	6/12	100%	12/12
100%	11/11	8%	1/12	100%	12/12
100%	12/12	73%	8/11	92%	11/12

	<i>Isolate</i>	<i>ISA 124 C-1 Rce 1</i>		<i>ISA 45 B-1</i>	
	<i>Dates rated</i>	<i>6/6/2017</i>		<i>7/31/2017</i>	
<i>Differential Name</i>	<i>Rps gene</i>	<i>% Dead</i>	<i># D/T</i>	<i>% Dead</i>	<i># D/T</i>
<i>Williams</i>	<i>rps</i>	100%	12/12	90%	9/10
<i>Union</i>	<i>1a</i>	20%	2/10	83%	5/6
<i>Haro 13</i>	<i>1b</i>	30%	3/10	100%	5/5
<i>Williams 79</i>	<i>1c</i>	0%	0/11	80%	4/5
<i>Haro 16</i>	<i>1d</i>	0%	0/12	17%	2/12
<i>Williams 82</i>	<i>1k</i>	0%	0/12	71%	5/7
<i>L76-1988</i>	<i>2</i>	25%	3/12	0%	0/6
<i>PI 171442</i>	<i>3a</i>	0%	0/12	0%	0/10
<i>PRX 146-36</i>	<i>3b</i>	0%	0/7	44%	4/9
<i>PRX 145-48</i>	<i>3c</i>	0%	0/12	0%	0/9
<i>L85-2352</i>	<i>4</i>	0%	0/12	11%	1/9
<i>L85-3059</i>	<i>5</i>	10%	1/10	11%	1/9
<i>Harosoy 62</i>	<i>6</i>	30%	3/10	0%	0/11
<i>Harosoy</i>	<i>7</i>	50%	12/24	57%	12/21
<i>PI 399073</i>	<i>8</i>	0%	0/9	0%	0/5
<i>Strain</i>	<i>MG / Ent #</i>	<i>% Dead</i>	<i># D/T</i>	<i>% Dead</i>	<i># D/T</i>
<i>MNI1410 (I)</i>	<i>UTI 1</i>	45%	5/11	100%	8/8
<i>IA1022 (SCN)</i>	<i>UTI 2</i>	100%	8/8	100%	12/12
<i>Sheyenne (0)</i>	<i>UTI 3</i>	0%	0/12	91%	10/11
<i>U11-917032</i>	<i>UTI 4</i>	100%	12/12	100%	12/12
<i>M07-209037</i>	<i>UTI 5</i>	17%	1/6	100%	8/8
<i>M09-278026</i>	<i>UTI 6</i>	9%	1/11	92%	11/12
<i>M09-285032</i>	<i>UTI 7</i>	0%	0/9	83%	10/12
<i>M09-285149</i>	<i>UTI 8</i>	0%	0/7	50%	3/6
<i>M09-343025</i>	<i>UTI 9</i>	44%	4/9	100%	10/10
<i>M10-171020</i>	<i>UTI 10</i>	0%	0/6	89%	8/9
<i>M10-254090</i>	<i>UTI 11</i>	20%	1/5	67%	4/6
<i>M11-131015</i>	<i>UTI 12</i>	0%	0/8	100%	7/7
<i>M11-131022</i>	<i>UTI 13</i>	100%	12/12	100%	10/10
<i>M11-132044</i>	<i>UTI 14</i>	88%	7/8	100%	8/8
<i>MSC09-774089</i>	<i>UTI 15</i>	92%	11/12	92%	11/12
<i>MSC10-559061</i>	<i>UTI 16</i>	0%	0/11	70%	7/10
<i>ORC 3313N</i>	<i>UTI 17</i>	91%	10/11	100%	10/10
<i>ORC 3713N</i>	<i>UTI 18</i>	92%	11/12	75%	9/12
<i>U14-103015</i>	<i>UTI 19</i>	92%	11/12	100%	12/12

Dorrance Race 7		Dorrance Race 17		ISA R2T21 A-1 Race 25	
8/14/2017		7/17/2017		6/26/2017	
% Dead	# D/T	% Dead	# D/T	% Dead	# D/T
73%	8/11	80%	8/10	100%	11/11
89%	8/9	0%	0/8	100%	12/12
0%	0/9	71%	5/7	100%	12/12
0%	0/12	50%	5/10	91%	10/11
36%	4/11	100%	11/11	91%	10/11
0%	0/10	100%	9/9	100%	10/10
67%	4/6	71%	5/7	50%	6/12
100%	10/10	100%	9/9	0%	0/7
0%	0/10	100%	10/10	0%	0/11
89%	8/9	88%	7/8	50%	4/8
90%	9/10	83%	5/6	0%	0/11
89%	8/9	67%	4/6	11%	1/9
82%	9/11	82%	9/11	0%	0/9
65%	11/17	89%	16/18	81%	17/21
60%	3/5	100%	3/3	0%	0/8
% Dead	# D/T	% Dead	# D/T	% Dead	# D/T
100%	10/10	88%	7/8	100%	11/11
70%	7/10	91%	10/11	100%	11/11
0%	0/11	20%	2/10	100%	12/12
100%	12/12	100%	12/12	100%	12/12
57%	4/7	67%	6/9	91%	10/11
22%	2/9	22%	2/9	100%	8/8
38%	3/8	29%	2/7	100%	5/5
0%	0/5	0%	0/7	100%	5/5
100%	9/9	25%	2/8	89%	8/9
0%	0/6	0%	0/5	100%	8/8
75%	6/8	25%	1/4	100%	10/10
0%	0/4	0%	0/8	100%	8/8
100%	10/10	100%	10/10	100%	11/11
100%	4/4	75%	6/8	100%	10/10
70%	7/10	100%	12/12	100%	11/11
18%	2/11	58%	7/12	100%	12/12
80%	8/10	100%	11/11	100%	10/10
100%	11/11	100%	12/12	92%	11/12
92%	11/12	100%	12/12	100%	11/11

	<i>Isolate</i>	<i>ISA 124 C-1 Rce 1</i>		<i>ISA 45 B-1</i>	
	<i>Dates rated</i>	<i>6/6/2017</i>		<i>7/31/2017</i>	
<i>Differential Name</i>	<i>Rps gene</i>	<i>% Dead</i>	<i># D/T</i>	<i>% Dead</i>	<i># D/T</i>
<i>Williams</i>	<i>rps</i>	100%	12/12	90%	9/10
<i>Union</i>	<i>1a</i>	20%	2/10	83%	5/6
<i>Haro 13</i>	<i>1b</i>	30%	3/10	100%	5/5
<i>Williams 79</i>	<i>1c</i>	0%	0/11	80%	4/5
<i>Haro 16</i>	<i>1d</i>	0%	0/12	17%	2/12
<i>Williams 82</i>	<i>1k</i>	0%	0/12	71%	5/7
<i>L76-1988</i>	<i>2</i>	25%	3/12	0%	0/6
<i>PI 171442</i>	<i>3a</i>	0%	0/12	0%	0/10
<i>PRX 146-36</i>	<i>3b</i>	0%	0/7	44%	4/9
<i>PRX 145-48</i>	<i>3c</i>	0%	0/12	0%	0/9
<i>L85-2352</i>	<i>4</i>	0%	0/12	11%	1/9
<i>L85-3059</i>	<i>5</i>	10%	1/10	11%	1/9
<i>Harosoy 62</i>	<i>6</i>	30%	3/10	0%	0/11
<i>Harosoy</i>	<i>7</i>	50%	12/24	57%	12/21
<i>PI 399073</i>	<i>8</i>	0%	0/9	0%	0/5
<i>Strain</i>	<i>MG / Ent #</i>	<i>% Dead</i>	<i># D/T</i>	<i>% Dead</i>	<i># D/T</i>
<i>MNI1410 (I)</i>	<i>PTI 1</i>	64%	7/11	75%	6/8
<i>IA1022 (SCN)</i>	<i>PTI 2</i>	90%	9/10	82%	9/11
<i>Sheyenne (0)</i>	<i>PTI 3</i>	0%	0/12	100%	10/10
<i>U11-917032</i>	<i>PTI 4</i>	92%	11/12	92%	11/12
<i>AR13-132078</i>	<i>PTI 5</i>	92%	11/12	100%	11/11
<i>M11-241015</i>	<i>PTI 6</i>	100%	12/12	100%	12/12
<i>M11-268105</i>	<i>PTI 7</i>	0%	0/11	100%	12/12
<i>M11-280085</i>	<i>PTI 8</i>	0%	0/11	100%	12/12
<i>M11-338048</i>	<i>PTI 9</i>	33%	4/12	100%	12/12
<i>M11-358032</i>	<i>PTI 10</i>	92%	11/12	92%	11/12
<i>M11-377069</i>	<i>PTI 11</i>	0%	0/12	92%	11/12
<i>MBC11-404-010</i>	<i>PTI 12</i>	100%	12/12	100%	12/12
<i>OAC 15-30C-SCN</i>	<i>PTI 13</i>	42%	5/12	50%	6/12
<i>OAC 15-32C</i>	<i>PTI 14</i>	100%	12/12	25%	3/12
<i>OAC 15-33C</i>	<i>PTI 15</i>	92%	11/12	67%	6/9
<i>OAC 15-36C</i>	<i>PTI 16</i>	0%	0/11	0%	0/11
<i>ORC 2516N</i>	<i>PTI 17</i>	10%	1/10	0%	0/10
<i>ORC 2616N</i>	<i>PTI 18</i>	0%	0/12	0%	0/10
<i>U14-108007</i>	<i>PTI 19</i>	90%	9/10	100%	10/10
<i>U14-110036</i>	<i>PTI 20</i>	73%	8/11	92%	11/12
<i>U14-111010</i>	<i>PTI 21</i>	33%	3/9	36%	4/11
<i>U15-934067</i>	<i>PTI 22</i>	92%	11/12	100%	10/10

Dorrance Race 7		Dorrance Race 17		ISA R2T21 A-1 Race 25	
8/14/2017		7/17/2017		6/26/2017	
% Dead	# D/T	% Dead	# D/T	% Dead	# D/T
73%	8/11	80%	8/10	100%	11/11
89%	8/9	0%	0/8	100%	12/12
0%	0/9	71%	5/7	100%	12/12
0%	0/12	50%	5/10	91%	10/11
36%	4/11	100%	11/11	91%	10/11
0%	0/10	100%	9/9	100%	10/10
67%	4/6	71%	5/7	50%	6/12
100%	10/10	100%	9/9	0%	0/7
0%	0/10	100%	10/10	0%	0/11
89%	8/9	88%	7/8	50%	4/8
90%	9/10	83%	5/6	0%	0/11
89%	8/9	67%	4/6	11%	1/9
82%	9/11	82%	9/11	0%	0/9
65%	11/17	89%	16/18	81%	17/21
60%	3/5	100%	3/3	0%	0/8
% Dead	# D/T	% Dead	# D/T	% Dead	# D/T
70%	7/10	60%	6/10	91%	10/11
100%	11/11	100%	11/11	100%	7/7
0%	0/8	0%	0/7	100%	12/12
100%	12/12	100%	12/12	100%	12/12
91%	10/11	100%	12/12	100%	11/11
100%	12/12	92%	11/12	100%	12/12
92%	11/12	0%	0/12	100%	12/12
100%	12/12	0%	0/12	100%	12/12
50%	6/12	100%	12/12	100%	12/12
92%	11/12	100%	12/12	100%	12/12
17%	2/12	100%	12/12	100%	12/12
100%	12/12	100%	12/12	100%	12/12
50%	6/12	58%	7/12	83%	10/12
100%	12/12	42%	5/12	83%	10/12
60%	6/10	100%	11/11	100%	11/11
0%	0/9	64%	7/11	0%	0/12
67%	6/9	100%	12/12	0%	0/12
91%	10/11	90%	9/10	0%	0/12
100%	12/12	67%	6/9	100%	10/10
40%	4/10	91%	10/11	90%	9/10
89%	8/9	100%	12/12	55%	6/11
100%	11/11	100%	12/12	100%	12/12

	<i>Isolate</i>	ISA 124 C-1		ISA 45 B-1	
	<i>Dates rated</i>	6/8/2017		9/21/2017	
<i>Differential Name</i>	Rps gene	% Dead	# D/T	% Dead	# D/T
<i>Williams</i>	<i>rps</i>	92%	11/12	100%	11/11
<i>Union</i>	1a	0%	0/11	100%	11/11
<i>Haro 13</i>	1b	0%	0/12	100%	12/12
<i>Williams 79</i>	1c	0%	0/12	100%	11/11
<i>Haro 16</i>	1d	0%	0/12	20%	2/10
<i>Williams 82</i>	1k	10%	1/10	100%	11/11
<i>L76-1988</i>	2	10%	1/10	22%	2/9
<i>PI 171442</i>	3a	0%	0/10	0%	0/8
<i>PRX 146-36</i>	3b	0%	0/10	70%	7/10
<i>PRX 145-48</i>	3c	8%	1/12	33%	4/12
<i>L85-2352</i>	4	0%	0/10	20%	2/10
<i>L85-3059</i>	5	22%	2/9	17%	2/12
<i>Harosoy 62</i>	6	0%	0/10	0%	0/11
<i>Harosoy</i>	7	77%	17/22	95%	21/22
<i>PI 399073</i>	8	0%	0/6	0%	0/10
<i>Strain</i>	MG / Ent #	% Dead	# D/T	% Dead	# D/T
<i>IA2102 (II)</i>	UTH 1	100%	11/11	91%	10/11
<i>IA1022 (SCN)</i>	UTH 2	100%	12/12	36%	4/11
<i>LD02-4485 (SCN)</i>	UTH 3	20%	2/10	92%	11/12
<i>U11-920017</i>	UTH 4	0%	0/11	92%	11/12
<i>AR14-247080</i>	UTH 5	100%	11/11	92%	11/12
<i>DSN11-12073</i>	UTH 6	0%	0/10	100%	12/12
<i>DSN11-12119</i>	UTH 7	0%	0/12	100%	11/11
<i>E12042</i>	UTH 8	33%	4/12	100%	12/12
<i>E13100</i>	UTH 9	0%	0/12	50%	6/12
<i>E13268</i>	UTH 10	64%	7/11	92%	11/12
<i>E13370</i>	UTH 11	0%	0/11	75%	9/12
<i>E14077</i>	UTH 12	42%	5/12	92%	11/12
<i>E14141</i>	UTH 13	0%	0/12	100%	12/12
<i>E14148</i>	UTH 14	92%	11/12	100%	11/11
<i>E14309</i>	UTH 15	0%	0/10	100%	10/10
<i>E14314</i>	UTH 16	0%	0/12	91%	10/11
<i>HM13-W156</i>	UTH 17	0%	0/12	8%	1/12
<i>LD12-459</i>	UTH 18	91%	10/11	100%	12/12
<i>LD13-1429</i>	UTH 19	82%	9/11	92%	11/12
<i>LD13-4902a</i>	UTH 20	75%	9/12	100%	12/12
<i>LD13-5131a</i>	UTH 21	100%	11/11	100%	12/12
<i>LD13-5290a</i>	UTH 22	92%	11/12	100%	11/11
<i>LD13-6678</i>	UTH 23	89%	8/9	92%	11/12
<i>MSC09-777143</i>	UTH 24	82%	9/11	100%	12/12
<i>MSC10-578025</i>	UTH 25	80%	4/5	67%	4/6
<i>ORC 8715</i>	UTH 26	0%	0/11	0%	0/12
<i>U13-603120</i>	UTH 27	9%	1/11	100%	12/12
<i>U13-604147</i>	UTH 28	75%	9/12	100%	12/12
<i>U13-609144</i>	UTH 29	67%	8/12	100%	12/12
<i>U14-222063</i>	UTH 30	73%	8/11	100%	12/12
<i>U14-910097</i>	UTH 31	75%	9/12	25%	3/12
<i>U14-915126</i>	UTH 32	92%	11/12	100%	12/12
<i>U14-919098</i>	UTH 33	0%	0/11	17%	2/12
<i>U14-923097</i>	UTH 34	0%	0/12	0%	0/12
<i>U14-925152</i>	UTH 35	91%	10/11	75%	9/12

Dorrance Race 7		Dorrance Race 17		ISA R2T21 A-1 Race 25	
8/15/2017		7/17/2017		6/29/2017	
% Dead	# D/T	% Dead	# D/T	% Dead	# D/T
90%	9/10	89%	8/9	100%	8/8
100%	12/12	0%	0/7	100%	9/9
60%	6/10	100%	10/10	100%	11/11
17%	2/12	64%	7/11	100%	10/10
82%	9/11	91%	10/11	73%	8/11
0%	0/8	75%	6/8	100%	12/12
100%	11/11	71%	5/7	9%	1/11
100%	10/10	100%	8/8	0%	0/9
0%	0/9	43%	3/7	0%	0/10
90%	9/10	100%	9/9	40%	4/10
100%	8/8	90%	9/10	22%	2/9
82%	9/11	50%	4/8	8%	1/12
100%	12/12	100%	9/9	0%	0/10
92%	22/24	89%	16/18	100%	23/23
78%	7/9	20%	1/5	0%	0/7
% Dead	# D/T	% Dead	# D/T	% Dead	# D/T
100%	10/10	100%	10/10	90%	9/10
50%	6/12	40%	4/10	80%	4/5
42%	5/12	58%	7/12	100%	11/11
8%	1/12	91%	10/11	100%	10/10
100%	12/12	89%	8/9	100%	12/12
0%	0/12	18%	2/11	100%	12/12
0%	0/12	0%	0/12	100%	12/12
92%	11/12	83%	10/12	100%	12/12
92%	11/12	82%	9/11	75%	9/12
58%	7/12	73%	8/11	100%	12/12
0%	0/12	92%	11/12	91%	10/11
42%	5/12	67%	8/12	100%	12/12
0%	0/12	58%	7/12	100%	12/12
100%	11/11	100%	12/12	100%	12/12
25%	3/12	100%	8/8	100%	12/12
9%	1/11	64%	7/11	100%	12/12
42%	5/12	100%	11/11	50%	6/12
83%	10/12	100%	10/10	100%	10/10
92%	11/12	73%	8/11	100%	11/11
100%	12/12	100%	12/12	100%	11/11
100%	12/12	100%	12/12	100%	12/12
92%	11/12	100%	11/11	100%	12/12
75%	9/12	100%	12/12	92%	11/12
75%	9/12	75%	9/12	100%	12/12
33%	2/6	44%	4/9	92%	11/12
92%	11/12	40%	4/10	0%	0/12
0%	0/12	82%	9/11	100%	12/12
78%	7/9	78%	7/9	100%	11/11
58%	7/12	90%	9/10	100%	12/12
100%	11/11	91%	10/11	100%	11/11
100%	12/12	18%	2/11	92%	11/12
67%	8/12	92%	11/12	100%	12/12
100%	12/12	92%	11/12	17%	2/12
100%	11/11	91%	10/11	17%	2/12
100%	11/11	92%	11/12	100%	12/12

	<i>Isolate</i>	ISA 124 C-1		ISA 45 B-1	
	<i>Dates rated</i>	6/8/2017		9/21/2017	
<i>Differential Name</i>	Rps gene	% Dead	# D/T	% Dead	# D/T
<i>Williams</i>	<i>rps</i>	92%	11/12	100%	11/11
<i>Union</i>	1a	0%	0/11	100%	11/11
<i>Haro 13</i>	1b	0%	0/12	100%	12/12
<i>Williams 79</i>	1c	0%	0/12	100%	11/11
<i>Haro 16</i>	1d	0%	0/12	20%	2/10
<i>Williams 82</i>	1k	10%	1/10	100%	11/11
<i>L76-1988</i>	2	10%	1/10	22%	2/9
<i>PI 171442</i>	3a	0%	0/10	0%	0/8
<i>PRX 146-36</i>	3b	0%	0/10	70%	7/10
<i>PRX 145-48</i>	3c	8%	1/12	33%	4/12
<i>L85-2352</i>	4	0%	0/10	20%	2/10
<i>L85-3059</i>	5	22%	2/9	17%	2/12
<i>Harosoy 62</i>	6	0%	0/10	0%	0/11
<i>Harosoy</i>	7	77%	17/22	95%	21/22
<i>PI 399073</i>	8	0%	0/6	0%	0/10
<i>Strain</i>	MG / Ent #	% Dead	# D/T	% Dead	# D/T
<i>IA2102 (II)</i>	PTIIA 1	89%	8/9	100%	12/12
<i>IA1022 (SCN)</i>	PTIIA 2	88%	7/8	92%	11/12
<i>LD02-4485 (SCN)</i>	PTIIA 3	25%	3/12	83%	10/12
<i>U11-920017</i>	PTIIA 4	0%	0/12	75%	9/12
<i>CR145192</i>	PTIIA 5	83%	10/12	100%	12/12
<i>CR145764</i>	PTIIA 6	89%	8/9	92%	11/12
<i>CR145789</i>	PTIIA 7	100%	12/12	100%	12/12
<i>CR146131</i>	PTIIA 8	0%	0/10	83%	10/12
<i>CR147871</i>	PTIIA 9	83%	10/12	100%	12/12
<i>CR148383</i>	PTIIA 10	73%	8/11	100%	12/12
<i>E15097</i>	PTIIA 11	73%	8/11	100%	12/12
<i>E15325</i>	PTIIA 12	0%	0/11	27%	3/11
<i>E15337</i>	PTIIA 13	0%	0/12	100%	12/12
<i>E15338</i>	PTIIA 14	0%	0/11	83%	10/12
<i>E15339</i>	PTIIA 15	100%	12/12	100%	12/12
<i>E15345</i>	PTIIA 16	92%	11/12	100%	12/12
<i>E15347</i>	PTIIA 17	33%	4/12	100%	12/12
<i>E15349</i>	PTIIA 18	0%	0/10	92%	11/12
<i>E15350</i>	PTIIA 19	0%	0/12	83%	10/12
<i>E15351</i>	PTIIA 20	0%	0/12	78%	7/9
<i>E15390</i>	PTIIA 21	0%	0/11	9%	1/11
<i>M11-336139</i>	PTIIA 22	0%	0/12	0%	0/12
<i>ORC 1602N</i>	PTIIA 23	0%	0/10	0%	0/10
<i>ORC 1603N</i>	PTIIA 24	78%	7/9	50%	6/12
<i>ORC 3616N</i>	PTIIA 25	0%	0/10	9%	1/11
<i>ORC 7215N</i>	PTIIA 26	0%	0/9	0%	0/11

Dorrance Race 7		Dorrance Race 17		ISA R2T21 A-1 Race 25	
8/15/2017		7/17/2017		6/29/2017	
% Dead	# D/T	% Dead	# D/T	% Dead	# D/T
90%	9/10	89%	8/9	100%	8/8
100%	12/12	0%	0/7	100%	9/9
60%	6/10	100%	10/10	100%	11/11
17%	2/12	64%	7/11	100%	10/10
82%	9/11	91%	10/11	73%	8/11
0%	0/8	75%	6/8	100%	12/12
100%	11/11	71%	5/7	9%	1/11
100%	10/10	100%	8/8	0%	0/9
0%	0/9	43%	3/7	0%	0/10
90%	9/10	100%	9/9	40%	4/10
100%	8/8	90%	9/10	22%	2/9
82%	9/11	50%	4/8	8%	1/12
100%	12/12	100%	9/9	0%	0/10
92%	22/24	89%	16/18	100%	23/23
78%	7/9	20%	1/5	0%	0/7
% Dead	# D/T	% Dead	# D/T	% Dead	# D/T
100%	10/10	100%	12/12	100%	10/10
27%	3/11	71%	5/7	100%	12/12
42%	5/12	44%	4/9	100%	12/12
0%	0/12	83%	10/12	92%	11/12
92%	11/12	100%	9/9	100%	12/12
92%	11/12	100%	12/12	100%	12/12
100%	11/11	100%	9/9	92%	11/12
70%	7/10	0%	0/9	100%	12/12
91%	10/11	100%	10/10	100%	11/11
45%	5/11	100%	10/10	100%	9/9
45%	5/11	67%	8/12	92%	11/12
100%	12/12	63%	5/8	92%	11/12
0%	0/9	100%	12/12	100%	12/12
0%	0/11	78%	7/9	92%	11/12
8%	1/12	100%	11/11	100%	12/12
92%	11/12	100%	11/11	100%	10/10
92%	11/12	42%	5/12	100%	11/11
33%	4/12	58%	7/12	92%	11/12
8%	1/12	0%	0/12	100%	12/12
17%	2/12	20%	2/10	100%	12/12
0%	0/12	22%	2/9	9%	1/11
100%	12/12	75%	9/12	9%	1/11
64%	7/11	56%	5/9	0%	0/12
75%	9/12	83%	10/12	100%	12/12
0%	0/10	73%	8/11	0%	0/10
30%	3/10	80%	4/5	0%	0/10

	<i>Isolate</i>	ISA 124 C-1		ISA 45 B-1	
	<i>Dates rated</i>	6/8/2017		9/21/2017	
Differential Name	Rps gene	% Dead	# D/T	% Dead	# D/T
<i>Williams</i>	<i>rps</i>	92%	11/12	100%	11/11
<i>Union</i>	1a	0%	0/11	100%	11/11
<i>Haro 13</i>	1b	0%	0/12	100%	12/12
<i>Williams 79</i>	1c	0%	0/12	100%	11/11
<i>Haro 16</i>	1d	0%	0/12	20%	2/10
<i>Williams 82</i>	1k	10%	1/10	100%	11/11
<i>L76-1988</i>	2	10%	1/10	22%	2/9
<i>PI 171442</i>	3a	0%	0/10	0%	0/8
<i>PRX 146-36</i>	3b	0%	0/10	70%	7/10
<i>PRX 145-48</i>	3c	8%	1/12	33%	4/12
<i>L85-2352</i>	4	0%	0/10	20%	2/10
<i>L85-3059</i>	5	22%	2/9	17%	2/12
<i>Harosoy 62</i>	6	0%	0/10	0%	0/11
<i>Harosoy</i>	7	77%	17/22	95%	21/22
<i>PI 399073</i>	8	0%	0/6	0%	0/10
Strain	MG / Ent #	% Dead	# D/T	% Dead	# D/T
<i>IA2102 (II)</i>	PTIIB 1	90%	9/10	100%	11/11
<i>IA1022 (SCN)</i>	PTIIB 2	88%	7/8	92%	11/12
<i>LD02-4485 (SCN)</i>	PTIIB 3	60%	6/10	100%	12/12
<i>U11-920017</i>	PTIIB 4	0%	0/12	100%	11/11
<i>LD14-3216</i>	PTIIB 5	100%	12/12	100%	12/12
<i>LD14-4098a</i>	PTIIB 6	83%	10/12	75%	9/12
<i>LD14-4763a</i>	PTIIB 7	100%	11/11	100%	12/12
<i>LD14-6099a</i>	PTIIB 8	82%	9/11	100%	12/12
<i>LD14-6103a</i>	PTIIB 9	91%	10/11	100%	12/12
<i>LD14-6363</i>	PTIIB 10	100%	11/11	100%	12/12
<i>LG15-2243</i>	PTIIB 11	100%	12/12	100%	12/12
<i>LG15-2775</i>	PTIIB 12	100%	10/10	100%	11/11
<i>LG15-4486</i>	PTIIB 13	92%	11/12	100%	12/12
<i>LG15-4695</i>	PTIIB 14	92%	11/12	100%	12/12
<i>U14-108041</i>	PTIIB 15	67%	8/12	100%	10/10
<i>U14-111007</i>	PTIIB 16	92%	11/12	100%	11/11
<i>U14-206321</i>	PTIIB 17	0%	0/12	100%	12/12
<i>U14-206326</i>	PTIIB 18	9%	1/11	83%	10/12
<i>U14-213255</i>	PTIIB 19	91%	10/11	100%	12/12
<i>U14-216260</i>	PTIIB 20	67%	8/12	100%	11/11
<i>U14-217227</i>	PTIIB 21	92%	11/12	92%	11/12
<i>U14-221187</i>	PTIIB 22	92%	11/12	100%	12/12
<i>U14-221253</i>	PTIIB 23	50%	6/12	100%	12/12
<i>U14-227239</i>	PTIIB 24	0%	0/12	100%	12/12
<i>U14-227255</i>	PTIIB 25	0%	0/10	100%	12/12
<i>U15-613225</i>	PTIIB 26	100%	12/12	100%	12/12
<i>U15-917133</i>	PTIIB 27	100%	12/12	100%	12/12
<i>U15-927115</i>	PTIIB 28	9%	1/11	64%	7/11
<i>U15-929095</i>	PTIIB 29	78%	7/9	73%	8/11

Dorrance Race 7		Dorrance Race 17		ISA R2T21 A-1 Race 25	
8/15/2017		7/17/2017		6/29/2017	
% Dead	# D/T	% Dead	# D/T	% Dead	# D/T
90%	9/10	89%	8/9	100%	8/8
100%	12/12	0%	0/7	100%	9/9
60%	6/10	100%	10/10	100%	11/11
17%	2/12	64%	7/11	100%	10/10
82%	9/11	91%	10/11	73%	8/11
0%	0/8	75%	6/8	100%	12/12
100%	11/11	71%	5/7	9%	1/11
100%	10/10	100%	8/8	0%	0/9
0%	0/9	43%	3/7	0%	0/10
90%	9/10	100%	9/9	40%	4/10
100%	8/8	90%	9/10	22%	2/9
82%	9/11	50%	4/8	8%	1/12
100%	12/12	100%	9/9	0%	0/10
92%	22/24	89%	16/18	100%	23/23
78%	7/9	20%	1/5	0%	0/7
% Dead	# D/T	% Dead	# D/T	% Dead	# D/T
100%	11/11	100%	11/11	100%	9/9
36%	4/11	67%	6/9	100%	11/11
42%	5/12	88%	7/8	100%	12/12
20%	2/10	0%	0/12	100%	12/12
100%	11/11	92%	11/12	100%	12/12
75%	9/12	50%	6/12	100%	12/12
92%	11/12	90%	9/10	92%	11/12
100%	11/11	100%	10/10	100%	11/11
100%	12/12	92%	11/12	100%	11/11
82%	9/11	90%	9/10	100%	12/12
100%	12/12	100%	10/10	100%	11/11
91%	10/11	100%	12/12	100%	11/11
91%	10/11	100%	10/10	100%	12/12
67%	8/12	91%	10/11	100%	11/11
91%	10/11	100%	11/11	92%	11/12
92%	11/12	75%	9/12	90%	9/10
33%	4/12	0%	0/10	75%	9/12
0%	0/9	0%	0/10	100%	12/12
100%	11/11	100%	11/11	83%	10/12
58%	7/12	67%	8/12	100%	12/12
92%	11/12	92%	11/12	100%	12/12
92%	11/12	100%	12/12	92%	11/12
83%	10/12	100%	12/12	75%	9/12
0%	0/12	0%	0/11	100%	12/12
0%	0/10	0%	0/11	100%	10/10
92%	11/12	92%	11/12	100%	12/12
92%	11/12	100%	12/12	100%	12/12
83%	10/12	82%	9/11	18%	2/11
83%	10/12	82%	9/11	33%	3/9

	<i>Isolate</i>	ISA 124 C-1		ISA 45 B-1	
	<i>Dates rated</i>	6/8/2017		9/21/2017	
<i>Differential Name</i>	Rps gene	% Dead	# D/T	% Dead	# D/T
<i>Williams</i>	<i>rps</i>	92%	11/12	100%	11/11
<i>Union</i>	1a	0%	0/11	100%	11/11
<i>Haro 13</i>	1b	0%	0/12	100%	12/12
<i>Williams 79</i>	1c	0%	0/12	100%	11/11
<i>Haro 16</i>	1d	0%	0/12	20%	2/10
<i>Williams 82</i>	1k	10%	1/10	100%	11/11
<i>L76-1988</i>	2	10%	1/10	22%	2/9
<i>PI 171442</i>	3a	0%	0/10	0%	0/8
<i>PRX 146-36</i>	3b	0%	0/10	70%	7/10
<i>PRX 145-48</i>	3c	8%	1/12	33%	4/12
<i>L85-2352</i>	4	0%	0/10	20%	2/10
<i>L85-3059</i>	5	22%	2/9	17%	2/12
<i>Harosoy 62</i>	6	0%	0/10	0%	0/11
<i>Harosoy</i>	7	77%	17/22	95%	21/22
<i>PI 399073</i>	8	0%	0/6	0%	0/10
<i>Strain</i>	MG / Ent #	% Dead	# D/T	% Dead	# D/T
<i>LD11-2170 (III)</i>	UTIII 1	0%	0/12	100%	11/11
<i>IA3048 (SCN)</i>	UTIII 2	75%	9/12	100%	12/12
<i>LD07-3395bf (SCN)</i>	UTIII 3	75%	9/12	91%	10/11
<i>U11-920017</i>	UTIII 4	0%	0/12	100%	12/12
<i>DSN11-06152</i>	UTIII 5	17%	2/12	18%	2/11
<i>LD13-3483</i>	UTIII 6	0%	0/12	18%	2/11
<i>LD13-5775a</i>	UTIII 7	92%	11/12	100%	11/11
<i>LG14-6165</i>	UTIII 8	92%	11/12	100%	12/12
<i>SA12-1455</i>	UTIII 9	75%	9/12	100%	11/11
<i>SA13-1310</i>	UTIII 10	75%	9/12	100%	12/12
<i>SA13-1363</i>	UTIII 11	25%	2/8	100%	10/10
<i>SA13-1385</i>	UTIII 12	67%	8/12	100%	12/12
<i>SA13-2047</i>	UTIII 13	83%	10/12	92%	11/12
<i>SA13-2489</i>	UTIII 14	100%	12/12	100%	12/12
<i>SA13-2699</i>	UTIII 15	45%	5/11	100%	12/12
<i>SA13-3135</i>	UTIII 16	60%	3/5	80%	4/5
<i>U12-428210</i>	UTIII 17	92%	11/12	100%	12/12
<i>U13-231286</i>	UTIII 18	17%	2/12	100%	12/12
<i>U13-931068</i>	UTIII 19	0%	0/12	100%	12/12
<i>U14-605217</i>	UTIII 20	17%	2/12	50%	5/10
<i>U14-924158</i>	UTIII 21	92%	11/12	9%	1/11

Dorrance Race 7		Dorrance Race 17		ISA R2T21 A-1 Race 25	
8/15/2017		7/17/2017		6/29/2017	
% Dead	# D/T	% Dead	# D/T	% Dead	# D/T
90%	9/10	89%	8/9	100%	8/8
100%	12/12	0%	0/7	100%	9/9
60%	6/10	100%	10/10	100%	11/11
17%	2/12	64%	7/11	100%	10/10
82%	9/11	91%	10/11	73%	8/11
0%	0/8	75%	6/8	100%	12/12
100%	11/11	71%	5/7	9%	1/11
100%	10/10	100%	8/8	0%	0/9
0%	0/9	43%	3/7	0%	0/10
90%	9/10	100%	9/9	40%	4/10
100%	8/8	90%	9/10	22%	2/9
82%	9/11	50%	4/8	8%	1/12
100%	12/12	100%	9/9	0%	0/10
92%	22/24	89%	16/18	100%	23/23
78%	7/9	20%	1/5	0%	0/7
% Dead	# D/T	% Dead	# D/T	% Dead	# D/T
0%	0/12	25%	3/12	100%	12/12
75%	9/12	67%	6/9	100%	12/12
92%	11/12	50%	5/10	100%	11/11
0%	0/12	0%	0/12	100%	12/12
75%	9/12	100%	11/11	17%	2/12
82%	9/11	92%	11/12	0%	0/10
83%	10/12	100%	12/12	92%	11/12
75%	9/12	100%	10/10	100%	12/12
36%	4/11	100%	12/12	100%	12/12
75%	9/12	100%	11/11	92%	11/12
25%	3/12	100%	11/11	100%	11/11
82%	9/11	100%	12/12	92%	11/12
50%	5/10	100%	12/12	100%	10/10
83%	10/12	100%	12/12	100%	11/11
50%	6/12	100%	12/12	100%	12/12
0%	0/6	75%	3/4	89%	8/9
92%	11/12	100%	12/12	100%	12/12
91%	10/11	0%	0/11	100%	12/12
17%	2/12	18%	2/11	100%	12/12
33%	4/12	45%	5/11	92%	11/12
42%	5/12	100%	11/11	100%	12/12

	<i>Isolate</i>	ISA 124 C-1		ISA 45 B-1	
	<i>Dates rated</i>	6/13/2017		8/8/2017	
<i>Differential Name</i>	Rps gene	% Dead	# D/T	% Dead	# D/T
<i>Williams</i>	<i>rps</i>	83%	5/6	100%	11/11
<i>Union</i>	1a	0%	0/10	90%	9/10
<i>Haro 13</i>	1b	10%	1/10	71%	5/7
<i>Williams 79</i>	1c	0%	0/12	100%	12/12
<i>Haro 16</i>	1d	0%	0/12	0%	0/7
<i>Williams 82</i>	1k	0%	0/12	80%	8/10
<i>L76-1988</i>	2	0%	0/12	30%	3/10
<i>PI 171442</i>	3a	0%	0/9	9%	1/11
<i>PRX 146-36</i>	3b	0%	0/9	90%	9/10
<i>PRX 145-48</i>	3c	8%	1/12	30%	3/10
<i>L85-2352</i>	4	0%	0/12	22%	2/9
<i>L85-3059</i>	5	0%	0/10	78%	7/9
<i>Harosoy 62</i>	6	8%	1/12	25%	2/8
<i>Harosoy</i>	7	81%	17/21	95%	18/19
<i>PI 399073</i>	8	0%	0/7	25%	1/4
<i>Strain</i>	MG / Ent #	% Dead	# D/T	% Dead	# D/T
<i>LD11-2170 (III)</i>	PTIIIA 1	0%	0/11	100%	12/12
<i>IA3048 (SCN)</i>	PTIIIA 2	73%	8/11	100%	12/12
<i>LD07-3395bf (SCN)</i>	PTIIIA 3	90%	9/10	83%	10/12
<i>U11-920017</i>	PTIIIA 4	0%	0/12	100%	12/12
<i>AR13-232008</i>	PTIIIA 5	0%	0/12	100%	12/12
<i>AR13-332062</i>	PTIIIA 6	100%	10/10	100%	11/11
<i>HM11-G023</i>	PTIIIA 7	0%	0/12	17%	2/12
<i>HM11-W193</i>	PTIIIA 8	0%	0/10	82%	9/11
<i>HM13-S062</i>	PTIIIA 9	0%	0/12	75%	9/12
<i>HM14-F042</i>	PTIIIA 10	0%	0/11	0%	0/11
<i>HM14-W132</i>	PTIIIA 11	0%	0/11	80%	8/10
<i>LD14-1167</i>	PTIIIA 12	64%	7/11	100%	11/11
<i>LD14-1429</i>	PTIIIA 13	73%	8/11	100%	11/11
<i>LD14-3090</i>	PTIIIA 14	0%	0/10	100%	12/12
<i>LD14-3218</i>	PTIIIA 15	92%	11/12	100%	12/12
<i>LD14-3340</i>	PTIIIA 16	100%	12/12	100%	12/12
<i>LD14-3702</i>	PTIIIA 17	0%	0/11	100%	12/12
<i>LD14-5353a</i>	PTIIIA 18	33%	4/12	90%	9/10
<i>LD14-6190</i>	PTIIIA 19	91%	10/11	100%	12/12
<i>LD14-6444</i>	PTIIIA 20	100%	12/12	100%	12/12
<i>LG13-1257</i>	PTIIIA 21	0%	0/12	100%	11/11
<i>LG14-6201</i>	PTIIIA 22	91%	10/11	92%	11/12
<i>LG15-2136</i>	PTIIIA 23	0%	0/11	100%	12/12
<i>LG15-2214</i>	PTIIIA 24	83%	10/12	100%	12/12
<i>LG15-4418</i>	PTIIIA 25	0%	0/10	100%	12/12

Dorrance Race 7		Dorrance Race 17		ISA R2T21 A-1 Race 25	
8/28/2017		7/24/2017		7/5/2017	
% Dead	# D/T	% Dead	# D/T	% Dead	# D/T
100%	7/7	80%	8/10	100%	10/10
89%	8/9	0%	0/8	92%	11/12
0%	0/11	90%	9/10	80%	8/10
0%	0/12	18%	2/11	100%	12/12
11%	1/9	90%	9/10	58%	7/12
0%	0/9	58%	7/12	100%	11/11
100%	11/11	60%	6/10	9%	1/11
100%	9/9	100%	8/8	0%	0/12
0%	0/9	78%	7/9	0%	0/11
100%	10/10	43%	3/7	27%	3/11
100%	10/10	67%	6/9	0%	0/6
100%	10/10	78%	7/9	0%	0/11
80%	8/10	82%	9/11	50%	6/12
90%	19/21	75%	15/20	82%	18/22
100%	8/8	67%	4/6	0%	0/7
% Dead	# D/T	% Dead	# D/T	% Dead	# D/T
9%	1/11	100%	11/11	92%	11/12
36%	4/11	75%	6/8	82%	9/11
88%	7/8	73%	8/11	45%	5/11
0%	0/8	83%	10/12	83%	10/12
67%	8/12	82%	9/11	60%	6/10
92%	11/12	75%	9/12	90%	9/10
0%	0/11	0%	0/12	0%	0/12
10%	1/10	92%	11/12	0%	0/11
8%	1/12	73%	8/11	18%	2/11
0%	0/12	70%	7/10	0%	0/11
0%	0/12	100%	11/11	75%	9/12
67%	6/9	100%	9/9	64%	7/11
100%	10/10	100%	12/12	83%	10/12
0%	0/11	27%	3/11	100%	11/11
100%	10/10	92%	11/12	83%	10/12
82%	9/11	91%	10/11	89%	8/9
78%	7/9	0%	0/9	90%	9/10
80%	8/10	100%	12/12	100%	9/9
83%	10/12	91%	10/11	90%	9/10
100%	11/11	100%	11/11	100%	11/11
40%	4/10	100%	12/12	100%	12/12
89%	8/9	90%	9/10	100%	10/10
0%	0/8	67%	6/9	100%	12/12
100%	12/12	100%	10/10	100%	8/8
82%	9/11	10%	1/10	80%	8/10

	<i>Isolate</i>	ISA 124 C-1		ISA 45 B-1	
	<i>Dates rated</i>	6/13/2017		8/8/2017	
<i>Differential Name</i>	Rps gene	% Dead	# D/T	% Dead	# D/T
<i>Williams</i>	<i>rps</i>	83%	5/6	100%	11/11
<i>Union</i>	1a	0%	0/10	90%	9/10
<i>Haro 13</i>	1b	10%	1/10	71%	5/7
<i>Williams 79</i>	1c	0%	0/12	100%	12/12
<i>Haro 16</i>	1d	0%	0/12	0%	0/7
<i>Williams 82</i>	1k	0%	0/12	80%	8/10
<i>L76-1988</i>	2	0%	0/12	30%	3/10
<i>PI 171442</i>	3a	0%	0/9	9%	1/11
<i>PRX 146-36</i>	3b	0%	0/9	90%	9/10
<i>PRX 145-48</i>	3c	8%	1/12	30%	3/10
<i>L85-2352</i>	4	0%	0/12	22%	2/9
<i>L85-3059</i>	5	0%	0/10	78%	7/9
<i>Harosoy 62</i>	6	8%	1/12	25%	2/8
<i>Harosoy</i>	7	81%	17/21	95%	18/19
<i>PI 399073</i>	8	0%	0/7	25%	1/4
<i>Strain</i>	MG / Ent #	% Dead	# D/T	% Dead	# D/T
<i>LD11-2170 (III)</i>	PTIII B 1	0%	0/12	100%	12/12
<i>IA3048 (SCN)</i>	PTIII B 2	100%	11/11	100%	9/9
<i>LD07-3395bf (SCN)</i>	PTIII B 3	91%	10/11	100%	11/11
<i>U11-920017</i>	PTIII B 4	0%	0/11	100%	11/11
<i>K15-1043</i>	PTIII B 5	100%	12/12	100%	12/12
<i>SA13-2494</i>	PTIII B 6	100%	6/6	100%	9/9
<i>SA14-5893</i>	PTIII B 7	0%	0/6	100%	9/9
<i>SA14-9653</i>	PTIII B 8	0%	0/8	100%	10/10
<i>SA14-9742</i>	PTIII B 9	75%	6/8	50%	1/2
<i>U14-210241</i>	PTIII B 10	0%	0/10	100%	12/12
<i>U14-211209</i>	PTIII B 11	0%	0/12	89%	8/9
<i>U14-211226</i>	PTIII B 12	0%	0/10	100%	12/12
<i>U14-212231</i>	PTIII B 13	0%	0/11	83%	10/12
<i>U14-218219</i>	PTIII B 14	100%	12/12	100%	12/12
<i>U14-219257</i>	PTIII B 15	100%	12/12	100%	11/11
<i>U14-223230</i>	PTIII B 16	17%	2/12	100%	11/11
<i>U14-319013</i>	PTIII B 17	67%	8/12	100%	12/12
<i>U14-319038</i>	PTIII B 18	92%	11/12	67%	8/12
<i>U14-320041</i>	PTIII B 19	0%	0/10	100%	10/10
<i>U14-321026</i>	PTIII B 20	0%	0/11	100%	8/8
<i>U14-322043</i>	PTIII B 21	0%	0/11	18%	2/11
<i>U15-606207</i>	PTIII B 22	0%	0/11	100%	12/12
<i>U15-613163</i>	PTIII B 23	92%	11/12	60%	6/10
<i>U15-908119</i>	PTIII B 24	0%	0/12	83%	5/6

Dorrance Race 7		Dorrance Race 17		ISA R2T21 A-1 Race 25	
8/28/2017		7/24/2017		7/5/2017	
% Dead	# D/T	% Dead	# D/T	% Dead	# D/T
100%	7/7	80%	8/10	100%	10/10
89%	8/9	0%	0/8	92%	11/12
0%	0/11	90%	9/10	80%	8/10
0%	0/12	18%	2/11	100%	12/12
11%	1/9	90%	9/10	58%	7/12
0%	0/9	58%	7/12	100%	11/11
100%	11/11	60%	6/10	9%	1/11
100%	9/9	100%	8/8	0%	0/12
0%	0/9	78%	7/9	0%	0/11
100%	10/10	43%	3/7	27%	3/11
100%	10/10	67%	6/9	0%	0/6
100%	10/10	78%	7/9	0%	0/11
80%	8/10	82%	9/11	50%	6/12
90%	19/21	75%	15/20	82%	18/22
100%	8/8	67%	4/6	0%	0/7
% Dead	# D/T	% Dead	# D/T	% Dead	# D/T
0%	0/12	100%	11/11	100%	12/12
92%	11/12	55%	6/11	90%	9/10
100%	10/10	36%	4/11	100%	9/9
8%	1/12	83%	10/12	100%	12/12
100%	12/12	100%	12/12	100%	11/11
100%	10/10	75%	6/8	100%	4/4
88%	7/8	0%	0/7	80%	4/5
0%	0/10	0%	0/8	100%	7/7
100%	5/5	67%	2/3	100%	4/4
8%	1/12	80%	8/10	91%	10/11
8%	1/12	80%	8/10	100%	8/8
0%	0/12	70%	7/10	100%	11/11
8%	1/12	90%	9/10	100%	10/10
100%	12/12	20%	2/10	100%	10/10
92%	11/12	67%	6/9	91%	10/11
100%	12/12	67%	8/12	10%	1/10
92%	11/12	10%	1/10	100%	9/9
58%	7/12	64%	7/11	100%	12/12
0%	0/11	36%	4/11	11%	1/9
33%	4/12	100%	12/12	100%	10/10
27%	3/11	100%	12/12	100%	10/10
100%	12/12	56%	5/9	20%	2/10
100%	12/12	83%	10/12	100%	12/12
8%	1/12	75%	9/12	42%	5/12

	<i>Isolate</i>	ISA 124 C-1		ISA 45 B-1	
	<i>Dates rated</i>	6/13/2017		8/8/2017	
<i>Differential Name</i>	Rps gene	% Dead	# D/T	% Dead	# D/T
<i>Williams</i>	<i>rps</i>	83%	5/6	100%	11/11
<i>Union</i>	1a	0%	0/10	90%	9/10
<i>Haro 13</i>	1b	10%	1/10	71%	5/7
<i>Williams 79</i>	1c	0%	0/12	100%	12/12
<i>Haro 16</i>	1d	0%	0/12	0%	0/7
<i>Williams 82</i>	1k	0%	0/12	80%	8/10
<i>L76-1988</i>	2	0%	0/12	30%	3/10
<i>PI 171442</i>	3a	0%	0/9	9%	1/11
<i>PRX 146-36</i>	3b	0%	0/9	90%	9/10
<i>PRX 145-48</i>	3c	8%	1/12	30%	3/10
<i>L85-2352</i>	4	0%	0/12	22%	2/9
<i>L85-3059</i>	5	0%	0/10	78%	7/9
<i>Harosoy 62</i>	6	8%	1/12	25%	2/8
<i>Harosoy</i>	7	81%	17/21	95%	18/19
<i>PI 399073</i>	8	0%	0/7	25%	1/4
<i>Strain</i>	MG / Ent #	% Dead	# D/T	% Dead	# D/T
<i>LD06-7620 (IV)</i>	UTIV 1	92%	11/12	73%	8/11
<i>LD00-2817P (L)</i>	UTIV 2	83%	10/12	91%	10/11
<i>LD07-3395bf (SCN)</i>	UTIV 3	92%	11/12	91%	10/11
<i>DSN11-03004</i>	UTIV 4	100%	10/10	100%	10/10
<i>DSN11-03174</i>	UTIV 5	100%	12/12	92%	11/12
<i>DSN11-10057</i>	UTIV 6	100%	12/12	100%	12/12
<i>DSN11-27183</i>	UTIV 7	0%	0/12	92%	11/12
<i>K14-1094</i>	UTIV 8	100%	12/12	100%	11/11
<i>K14-1153</i>	UTIV 9	100%	10/10	100%	8/8
<i>K14-1358</i>	UTIV 10	33%	4/12	100%	12/12
<i>LD13-8769</i>	UTIV 11	100%	12/12	100%	12/12
<i>LG13-3993</i>	UTIV 12	91%	10/11	100%	11/11
<i>LG14-7959</i>	UTIV 13	100%	10/10	86%	6/7
<i>LG14-8024</i>	UTIV 14	0%	0/12	100%	11/11
<i>S13-2743C</i>	UTIV 15	0%	0/12	89%	8/9
<i>SA12-1451</i>	UTIV 16	100%	11/11	100%	10/10

Dorrance Race 7		Dorrance Race 17		ISA R2T21 A-1 Race 25	
8/28/2017		7/24/2017		7/5/2017	
% Dead	# D/T	% Dead	# D/T	% Dead	# D/T
100%	7/7	80%	8/10	100%	10/10
89%	8/9	0%	0/8	92%	11/12
0%	0/11	90%	9/10	80%	8/10
0%	0/12	18%	2/11	100%	12/12
11%	1/9	90%	9/10	58%	7/12
0%	0/9	58%	7/12	100%	11/11
100%	11/11	60%	6/10	9%	1/11
100%	9/9	100%	8/8	0%	0/12
0%	0/9	78%	7/9	0%	0/11
100%	10/10	43%	3/7	27%	3/11
100%	10/10	67%	6/9	0%	0/6
100%	10/10	78%	7/9	0%	0/11
80%	8/10	82%	9/11	50%	6/12
90%	19/21	75%	15/20	82%	18/22
100%	8/8	67%	4/6	0%	0/7
% Dead	# D/T	% Dead	# D/T	% Dead	# D/T
100%	9/9	100%	9/9	100%	4/4
90%	9/10	91%	10/11	83%	5/6
100%	11/11	42%	5/12	100%	10/10
92%	11/12	100%	10/10	100%	12/12
100%	10/10	100%	12/12	100%	11/11
100%	11/11	90%	9/10	88%	7/8
0%	0/12	100%	12/12	91%	10/11
100%	12/12	100%	12/12	100%	12/12
92%	11/12	92%	11/12	100%	6/6
42%	5/12	92%	11/12	100%	10/10
100%	10/10	100%	12/12	100%	10/10
100%	11/11	100%	10/10	100%	12/12
75%	6/8	89%	8/9	89%	8/9
0%	0/12	92%	11/12	100%	9/9
100%	12/12	0%	0/10	100%	10/10
100%	12/12	100%	12/12	100%	12/12

	<i>Isolate</i>	ISA 124 C-1		ISA 45 B-1	
	<i>Dates rated</i>	6/13/2017		8/8/2017	
<i>Differential Name</i>	Rps gene	% Dead	# D/T	% Dead	# D/T
<i>Williams</i>	<i>rps</i>	83%	5/6	100%	11/11
<i>Union</i>	1a	0%	0/10	90%	9/10
<i>Haro 13</i>	1b	10%	1/10	71%	5/7
<i>Williams 79</i>	1c	0%	0/12	100%	12/12
<i>Haro 16</i>	1d	0%	0/12	0%	0/7
<i>Williams 82</i>	1k	0%	0/12	80%	8/10
<i>L76-1988</i>	2	0%	0/12	30%	3/10
<i>PI 171442</i>	3a	0%	0/9	9%	1/11
<i>PRX 146-36</i>	3b	0%	0/9	90%	9/10
<i>PRX 145-48</i>	3c	8%	1/12	30%	3/10
<i>L85-2352</i>	4	0%	0/12	22%	2/9
<i>L85-3059</i>	5	0%	0/10	78%	7/9
<i>Harosoy 62</i>	6	8%	1/12	25%	2/8
<i>Harosoy</i>	7	81%	17/21	95%	18/19
<i>PI 399073</i>	8	0%	0/7	25%	1/4
<i>Strain</i>	MG / Ent #	% Dead	# D/T	% Dead	# D/T
<i>LD06-7620 (IV)</i>	PTIV 1	82%	9/11	88%	7/8
<i>LD00-2817P (L)</i>	PTIV 2	100%	12/12	80%	8/10
<i>LD07-3395bf (SCN)</i>	PTIV 3	100%	12/12	100%	12/12
<i>CRI44155</i>	PTIV 4	0%	0/12	20%	2/10
<i>CRI45524</i>	PTIV 5	8%	1/12	92%	11/12
<i>CRI46116</i>	PTIV 6	0%	0/12	100%	12/12
<i>CRI47814</i>	PTIV 7	0%	0/12	75%	9/12
<i>CRI47839</i>	PTIV 8	92%	11/12	100%	12/12
<i>CRI47881</i>	PTIV 9	100%	12/12	100%	10/10
<i>K15-1008</i>	PTIV 10	92%	11/12	89%	8/9
<i>K15-1039</i>	PTIV 11	100%	12/12	91%	10/11
<i>K15-1278</i>	PTIV 12	100%	12/12	100%	12/12
<i>K15-1279</i>	PTIV 13	100%	12/12	100%	10/10
<i>K15-1283</i>	PTIV 14	100%	9/9	100%	10/10
<i>K15-1294</i>	PTIV 15	100%	12/12	100%	12/12
<i>K15-1303</i>	PTIV 16	100%	12/12	100%	12/12
<i>K15-1307</i>	PTIV 17	100%	12/12	100%	11/11
<i>K15-1310</i>	PTIV 18	83%	10/12	73%	8/11
<i>LD14-2880</i>	PTIV 19	0%	0/12	100%	11/11
<i>LD14-3698</i>	PTIV 20	0%	0/12	100%	11/11
<i>LD14-6763</i>	PTIV 21	0%	0/12	100%	12/12
<i>LD14-6766</i>	PTIV 22	100%	12/12	100%	12/12
<i>LD14-6796</i>	PTIV 23	100%	11/11	42%	5/12
<i>LG15-2049</i>	PTIV 24	0%	0/11	100%	11/11
<i>LG15-2224</i>	PTIV 25	100%	12/12	91%	10/11
<i>SA13-1464</i>	PTIV 26	75%	6/8	100%	8/8
<i>SA14-5754</i>	PTIV 27	100%	11/11	86%	6/7
<i>SA14-5854</i>	PTIV 28	91%	10/11	100%	11/11

Dorrance Race 7		Dorrance Race 17		ISA R2T21 A-1 Race 25	
8/28/2017		7/24/2017		7/5/2017	
% Dead	# D/T	% Dead	# D/T	% Dead	# D/T
100%	7/7	80%	8/10	100%	10/10
89%	8/9	0%	0/8	92%	11/12
0%	0/11	90%	9/10	80%	8/10
0%	0/12	18%	2/11	100%	12/12
11%	1/9	90%	9/10	58%	7/12
0%	0/9	58%	7/12	100%	11/11
100%	11/11	60%	6/10	9%	1/11
100%	9/9	100%	8/8	0%	0/12
0%	0/9	78%	7/9	0%	0/11
100%	10/10	43%	3/7	27%	3/11
100%	10/10	67%	6/9	0%	0/6
100%	10/10	78%	7/9	0%	0/11
80%	8/10	82%	9/11	50%	6/12
90%	19/21	75%	15/20	82%	18/22
100%	8/8	67%	4/6	0%	0/7
% Dead	# D/T	% Dead	# D/T	% Dead	# D/T
100%	11/11	92%	11/12	88%	7/8
100%	6/6	80%	8/10	100%	9/9
100%	10/10	83%	10/12	100%	12/12
100%	12/12	100%	11/11	0%	0/10
67%	8/12	75%	9/12	100%	11/11
83%	10/12	0%	0/12	100%	11/11
0%	0/12	73%	8/11	89%	8/9
91%	10/11	92%	11/12	89%	8/9
100%	12/12	100%	10/10	100%	12/12
100%	12/12	100%	8/8	100%	12/12
100%	12/12	100%	9/9	100%	11/11
100%	12/12	100%	12/12	100%	11/11
100%	12/12	91%	10/11	100%	12/12
100%	12/12	100%	10/10	100%	11/11
100%	11/11	92%	11/12	100%	12/12
100%	12/12	100%	12/12	100%	12/12
100%	11/11	100%	12/12	100%	10/10
91%	10/11	100%	12/12	100%	12/12
18%	2/11	0%	0/10	100%	11/11
100%	12/12	0%	0/12	100%	12/12
100%	11/11	0%	0/12	100%	11/11
100%	12/12	100%	12/12	100%	11/11
70%	7/10	33%	4/12	100%	10/10
100%	11/11	0%	0/11	100%	11/11
100%	12/12	75%	9/12	100%	11/11
100%	9/9	100%	7/7	100%	8/8
100%	6/6	100%	7/7	100%	6/6
100%	10/10	100%	11/11	100%	8/8

	<i>Isolate</i>	ISA 124 C-1		ISA 45 B-1	
	<i>Dates rated</i>	6/14/2017		8/9/2017	
<i>Differential Name</i>	Rps gene	% Dead	# D/T	% Dead	# D/T
<i>Williams</i>	<i>rps</i>	100%	10/10	91%	10/11
<i>Union</i>	1a	0%	0/12	44%	4/9
<i>Haro 13</i>	1b	25%	2/8	91%	10/11
<i>Williams 79</i>	1c	0%	0/10	83%	10/12
<i>Haro 16</i>	1d	0%	0/12	33%	4/12
<i>Williams 82</i>	1k	0%	0/11	90%	9/10
<i>L76-1988</i>	2	9%	1/11	10%	1/10
<i>PI 171442</i>	3a	0%	0/12	0%	0/11
<i>PRX 146-36</i>	3b	0%	0/9	90%	9/10
<i>PRX 145-48</i>	3c	0%	0/11	11%	1/9
<i>L85-2352</i>	4	10%	1/10	0%	0/11
<i>L85-3059</i>	5	9%	1/11	0%	0/12
<i>Harosoy 62</i>	6	0%	0/11	13%	1/8
<i>Harosoy</i>	7	92%	22/24	78%	18/23
<i>PI 399073</i>	8	0%	0/10	0%	0/5
<i>Strain</i>	MG / Ent #	% Dead	# D/T	% Dead	# D/T
<i>MN0071 (00)</i>	UT00RR 1	0%	0/12	9%	1/11
<i>MN0095 (0)</i>	UT00RR 2	0%	0/8	67%	6/9
<i>AG00133</i>	UT00RR 3	0%	0/8	90%	9/10
<i>AG00632 (00)</i>	UT00RR 4	0%	0/12	83%	10/12
<i>AG00932</i>	UT00RR 5	17%	2/12	83%	10/12
<i>ND12-21598</i>	UT00RR 6	100%	11/11	92%	11/12
<i>ND12-24081</i>	UT00RR 7	18%	2/11	0%	0/11
<i>ND14-23953</i>	UT00RR 8	92%	11/12	36%	4/11
<i>ND14-5732</i>	UT00RR 9	100%	12/12	73%	8/11
<i>ND14-5881</i>	UT00RR 10	100%	12/12	83%	10/12
<i>ND14-5895</i>	UT00RR 11	100%	12/12	100%	12/12
<i>ND14-6120</i>	UT00RR 12	9%	1/11	100%	12/12
<i>ND14-6963</i>	UT00RR 13	100%	12/12	50%	6/12
<i>ND14-7610</i>	UT00RR 14	0%	0/12	50%	6/12
<i>ND14-8101</i>	UT00RR 15	0%	0/12	83%	10/12
<i>ND14-8129</i>	UT00RR 16	17%	2/12	92%	11/12
<i>Sheyenne (0)</i>	UT0RR 1	20%	2/10	64%	7/11
<i>MN0404CN (SCN)</i>	UT0RR 2	0%	0/11	0%	0/12
<i>MN1410 (I)</i>	UT0RR 3	56%	5/9	89%	8/9
<i>AG0231 (E)</i>	UT0RR 4	0%	0/12	50%	5/10
<i>AG0532 (0)</i>	UT0RR 5	0%	0/11	80%	8/10
<i>AG0832</i>	UT0RR 6	0%	0/11	0%	0/10
<i>AG1234</i>	UT0RR 7	0%	0/11	67%	8/12
<i>M09-878011</i>	UT0RR 8	75%	9/12	92%	11/12
<i>M10-214107</i>	UT0RR 9	83%	10/12	100%	10/10
<i>M11-305073</i>	UT0RR 10	100%	12/12	100%	11/11
<i>M11-314031</i>	UT0RR 11	0%	0/11	70%	7/10
<i>ND14-6238</i>	UT0RR 12	100%	12/12	64%	7/11
<i>ND14-6283</i>	UT0RR 13	0%	0/12	92%	11/12
<i>ND14-6284</i>	UT0RR 14	0%	0/11	100%	11/11
<i>ND14-6288</i>	UT0RR 15	100%	12/12	92%	11/12
<i>ND14-7738</i>	UT0RR 16	0%	0/12	0%	0/12
<i>ND14-8364</i>	UT0RR 17	0%	0/12	0%	0/11
<i>ND14-8628</i>	UT0RR 18	100%	12/12	83%	10/12
<i>ND14-8899</i>	UT0RR 19	0%	0/12	42%	5/12

Dorrance Race 7		Dorrance Race 17		ISA R2T21 A-1 Race 25	
8/29/2017		9/19/2017		7/6/2017	
% Dead	# D/T	% Dead	# D/T	% Dead	# D/T
100%	10/10	100%	12/12	100%	8/8
89%	8/9	0%	0/11	100%	12/12
10%	1/10	91%	10/11	100%	12/12
9%	1/11	75%	9/12	100%	7/7
18%	2/11	92%	11/12	18%	2/11
0%	0/12	92%	11/12	100%	12/12
91%	10/11	83%	10/12	22%	2/9
100%	9/9	92%	11/12	0%	0/9
0%	0/11	22%	2/9	0%	0/10
91%	10/11	73%	8/11	10%	1/10
100%	9/9	75%	9/12	9%	1/11
100%	11/11	64%	7/11	0%	0/12
90%	9/10	58%	7/12	0%	0/11
90%	19/21	91%	21/23	95%	19/20
78%	7/9	0%	0/9	0%	0/9
% Dead	# D/T	% Dead	# D/T	% Dead	# D/T
100%	11/11	0%	0/11	58%	7/12
100%	8/8	0%	0/8	88%	7/8
0%	0/7	57%	4/7	100%	7/7
0%	0/12	100%	12/12	100%	12/12
11%	1/9	91%	10/11	100%	11/11
100%	12/12	100%	11/11	80%	8/10
92%	11/12	100%	11/11	0%	0/11
91%	10/11	92%	11/12	45%	5/11
100%	12/12	100%	12/12	100%	12/12
100%	12/12	100%	12/12	92%	11/12
100%	12/12	100%	12/12	100%	12/12
0%	0/12	9%	1/11	0%	0/11
100%	12/12	100%	12/12	50%	6/12
8%	1/12	33%	4/12	25%	3/12
100%	12/12	0%	0/12	100%	11/11
17%	2/12	100%	12/12	100%	12/12
10%	1/10	55%	6/11	100%	10/10
0%	0/11	64%	7/11	25%	3/12
82%	9/11	50%	5/10	100%	11/11
0%	0/12	36%	4/11	92%	11/12
0%	0/12	100%	12/12	100%	11/11
100%	11/11	100%	10/10	0%	0/10
0%	0/12	25%	3/12	100%	12/12
58%	7/12	92%	11/12	100%	12/12
100%	12/12	92%	11/12	100%	12/12
100%	11/11	100%	12/12	100%	12/12
0%	0/11	83%	10/12	100%	11/11
100%	11/11	100%	12/12	100%	12/12
0%	0/12	75%	9/12	100%	12/12
0%	0/12	73%	8/11	100%	12/12
100%	12/12	100%	12/12	100%	12/12
0%	0/12	92%	11/12	0%	0/11
0%	0/12	75%	9/12	0%	0/9
100%	12/12	75%	9/12	100%	12/12
0%	0/12	83%	10/12	100%	12/12

	<i>Isolate</i>	ISA 124 C-1		ISA 45 B-1	
	<i>Dates rated</i>	6/14/2017		8/9/2017	
<i>Differential Name</i>	Rps gene	% Dead	# D/T	% Dead	# D/T
<i>Williams</i>	<i>rps</i>	100%	10/10	91%	10/11
<i>Union</i>	1a	0%	0/12	44%	4/9
<i>Haro 13</i>	1b	25%	2/8	91%	10/11
<i>Williams 79</i>	1c	0%	0/10	83%	10/12
<i>Haro 16</i>	1d	0%	0/12	33%	4/12
<i>Williams 82</i>	1k	0%	0/11	90%	9/10
<i>L76-1988</i>	2	9%	1/11	10%	1/10
<i>PI 171442</i>	3a	0%	0/12	0%	0/11
<i>PRX 146-36</i>	3b	0%	0/9	90%	9/10
<i>PRX 145-48</i>	3c	0%	0/11	11%	1/9
<i>L85-2352</i>	4	10%	1/10	0%	0/11
<i>L85-3059</i>	5	9%	1/11	0%	0/12
<i>Harosoy 62</i>	6	0%	0/11	13%	1/8
<i>Harosoy</i>	7	92%	22/24	78%	18/23
<i>PI 399073</i>	8	0%	0/10	0%	0/5
<i>Strain</i>	MG / Ent #	% Dead	# D/T	% Dead	# D/T
<i>MN1410 (I)</i>	UTIRR 1	64%	7/11	80%	8/10
<i>IA1022 (SCN)</i>	UTIRR 2	91%	10/11	75%	6/8
<i>Sheyenne (O)</i>	UTIRR 3	8%	1/12	90%	9/10
<i>AG1234 (E)</i>	UTIRR 4	0%	0/12	92%	11/12
<i>AG1733 (I)</i>	UTIRR 5	0%	0/9	100%	7/7
<i>AG2031</i>	UTIRR 6	no data	no data	no data	no data
<i>M09-956047</i>	UTIRR 7	83%	10/12	92%	11/12
<i>M10-236-2007</i>	UTIRR 8	0%	0/12	0%	0/12
<i>M10-237102</i>	UTIRR 9	33%	4/12	58%	7/12
<i>M10-238-2036</i>	UTIRR 10	0%	0/12	0%	0/10
<i>M10-238-2077</i>	UTIRR 11	0%	0/10	58%	7/12
<i>M11-291113</i>	UTIRR 12	0%	0/12	67%	8/12
<i>M11-305084</i>	UTIRR 13	8%	1/12	55%	6/11
<i>M11-314020</i>	UTIRR 14	0%	0/12	70%	7/10
<i>M11-314101</i>	UTIRR 15	0%	0/11	55%	6/11
<i>M11-314106</i>	UTIRR 16	0%	0/12	73%	8/11
<i>IA2102 (II)</i>	UTIIRR 1	100%	12/12	80%	8/10
<i>LD02-4485 (SCN)</i>	UTIIRR 2	45%	5/11	100%	10/10
<i>LD12-15246 R2a</i>	UTIIRR 3	33%	4/12	42%	5/12
<i>AG2031 (E)</i>	UTIIRR 4	no data	no data	no data	no data
<i>AG2535</i>	UTIIRR 5	0%	0/12	91%	10/11
<i>E11128T</i>	UTIIRR 6	58%	7/12	83%	10/12
<i>E14852</i>	UTIIRR 7	0%	0/11	82%	9/11
<i>E15079T</i>	UTIIRR 8	55%	6/11	92%	11/12
<i>E15165T</i>	UTIIRR 9	0%	0/11	75%	6/8
<i>E15346T</i>	UTIIRR 10	18%	2/11	88%	7/8
<i>HM14-G047</i>	UTIIRR 11	0%	0/12	0%	0/11
<i>HM14-W070</i>	UTIIRR 12	0%	0/12	8%	1/12
<i>LD13-13228R1a</i>	UTIIRR 13	0%	0/12	92%	11/12
<i>LD13-13334R1a</i>	UTIIRR 14	0%	0/11	55%	6/11
<i>LD13-13478R1a</i>	UTIIRR 15	100%	12/12	92%	11/12
<i>LD13-14071R2</i>	UTIIRR 16	0%	0/10	80%	8/10
<i>M10-238-2025</i>	UTIIRR 17	0%	0/11	50%	6/12
<i>M10-238-2098</i>	UTIIRR 18	0%	0/12	0%	0/12
<i>M10-238-2100</i>	UTIIRR 19	0%	0/12	0%	0/9

Dorrance Race 7		Dorrance Race 17		ISA R2T21 A-1 Race 25	
8/29/2017		9/19/2017		7/6/2017	
% Dead	# D/T	% Dead	# D/T	% Dead	# D/T
100%	10/10	100%	12/12	100%	8/8
89%	8/9	0%	0/11	100%	12/12
10%	1/10	91%	10/11	100%	12/12
9%	1/11	75%	9/12	100%	7/7
18%	2/11	92%	11/12	18%	2/11
0%	0/12	92%	11/12	100%	12/12
91%	10/11	83%	10/12	22%	2/9
100%	9/9	92%	11/12	0%	0/9
0%	0/11	22%	2/9	0%	0/10
91%	10/11	73%	8/11	10%	1/10
100%	9/9	75%	9/12	9%	1/11
100%	11/11	64%	7/11	0%	0/12
90%	9/10	58%	7/12	0%	0/11
90%	19/21	91%	21/23	95%	19/20
78%	7/9	0%	0/9	0%	0/9
% Dead	# D/T	% Dead	# D/T	% Dead	# D/T
100%	11/11	91%	10/11	100%	10/10
70%	7/10	100%	12/12	100%	10/10
36%	4/11	9%	1/11	100%	12/12
0%	0/11	33%	4/12	100%	11/11
0%	0/8	22%	2/9	100%	10/10
no data	no data	no data	no data	no data	no data
83%	10/12	75%	9/12	100%	11/11
0%	0/12	92%	11/12	0%	0/11
92%	11/12	33%	4/12	9%	1/11
0%	0/11	100%	12/12	8%	1/12
8%	1/12	58%	7/12	58%	7/12
0%	0/11	73%	8/11	100%	12/12
0%	0/12	75%	9/12	100%	12/12
100%	12/12	8%	1/12	100%	12/12
8%	1/12	92%	11/12	100%	12/12
0%	0/12	92%	11/12	91%	10/11
100%	12/12	100%	12/12	100%	12/12
45%	5/11	82%	9/11	100%	12/12
50%	6/12	36%	4/11	100%	11/11
no data	no data	no data	no data	no data	no data
0%	0/12	100%	10/10	100%	12/12
92%	11/12	83%	10/12	100%	12/12
0%	0/10	55%	6/11	100%	11/11
100%	11/11	50%	6/12	92%	11/12
0%	0/12	88%	7/8	100%	12/12
18%	2/11	83%	10/12	100%	12/12
0%	0/12	92%	11/12	0%	0/12
0%	0/12	33%	4/12	0%	0/12
0%	0/12	20%	2/10	100%	11/11
0%	0/11	82%	9/11	100%	12/12
100%	11/11	100%	11/11	92%	11/12
0%	0/10	83%	10/12	100%	11/11
50%	6/12	64%	7/11	40%	4/10
92%	11/12	100%	12/12	17%	2/12
17%	2/12	55%	6/11	0%	0/10

	<i>Isolate</i>	ISA 124 C-1		ISA 45 B-1	
	<i>Dates rated</i>	6/14/2017		8/9/2017	
<i>Differential Name</i>	Rps gene	% Dead	# D/T	% Dead	# D/T
<i>Williams</i>	<i>rps</i>	100%	10/10	91%	10/11
<i>Union</i>	1a	0%	0/12	44%	4/9
<i>Haro 13</i>	1b	25%	2/8	91%	10/11
<i>Williams 79</i>	1c	0%	0/10	83%	10/12
<i>Haro 16</i>	1d	0%	0/12	33%	4/12
<i>Williams 82</i>	1k	0%	0/11	90%	9/10
<i>L76-1988</i>	2	9%	1/11	10%	1/10
<i>PI 171442</i>	3a	0%	0/12	0%	0/11
<i>PRX 146-36</i>	3b	0%	0/9	90%	9/10
<i>PRX 145-48</i>	3c	0%	0/11	11%	1/9
<i>L85-2352</i>	4	10%	1/10	0%	0/11
<i>L85-3059</i>	5	9%	1/11	0%	0/12
<i>Harosoy 62</i>	6	0%	0/11	13%	1/8
<i>Harosoy</i>	7	92%	22/24	78%	18/23
<i>PI 399073</i>	8	0%	0/10	0%	0/5
<i>Strain</i>	MG / Ent #	% Dead	# D/T	% Dead	# D/T
<i>LD11-2170 (III)</i>	UTIIIR 1	0%	0/12	92%	11/12
<i>LD07-3395bf (SCN)</i>	UTIIIR 2	100%	12/12	82%	9/11
<i>AG3334</i>	UTIIIR 3	0%	0/10	90%	9/10
<i>AG3832</i>	UTIIIR 4	0%	0/11	60%	6/10
<i>HM11-H015</i>	UTIIIR 5	0%	0/12	73%	8/11
<i>HM11-H016</i>	UTIIIR 6	0%	0/12	0%	0/10
<i>HM14-C033</i>	UTIIIR 7	0%	0/12	0%	0/12
<i>HM14-E042</i>	UTIIIR 8	0%	0/12	0%	0/11
<i>HM14-E087</i>	UTIIIR 9	0%	0/12	18%	2/11
<i>HM14-W146</i>	UTIIIR 10	0%	0/12	0%	0/12
<i>LD13-14525R2</i>	UTIIIR 11	100%	11/11	67%	6/9
<i>LD14-13590R2a</i>	UTIIIR 12	1%	0/1	78%	7/9
<i>LD14-14172R2</i>	UTIIIR 13	0%	0/12	78%	7/9
<i>LD14-14308R2</i>	UTIIIR 14	100%	11/11	80%	8/10
<i>SA13-4268RR</i>	UTIIIR 15	64%	7/11	92%	11/12
<i>SA13-4420RR</i>	UTIIIR 16	100%	12/12	75%	9/12
<i>SA13-4434RR</i>	UTIIIR 17	100%	12/12	100%	12/12
<i>LD06-7620 (IV)</i>	UTIVRR 1	90%	9/10	86%	6/7
<i>LD07-3395bf (SCN)</i>	UTIVRR 2	92%	11/12	50%	6/12
<i>AG3832</i>	UTIVRR 3	0%	0/11	57%	4/7
<i>AG4033 (IV)</i>	UTIVRR 4	0%	0/11	80%	8/10
<i>AG4232</i>	UTIVRR 5	0%	0/12	55%	6/11
<i>S14-8943R</i>	UTIVRR 6	55%	6/11	38%	3/8
<i>S15-2702</i>	UTIVRR 7	100%	11/11	50%	5/10
<i>S15-7499</i>	UTIVRR 8	0%	0/8	88%	7/8

Dorrance Race 7		Dorrance Race 17		ISA R2T21 A-1 Race 25	
8/29/2017		9/19/2017		7/6/2017	
% Dead	# D/T	% Dead	# D/T	% Dead	# D/T
100%	10/10	100%	12/12	100%	8/8
89%	8/9	0%	0/11	100%	12/12
10%	1/10	91%	10/11	100%	12/12
9%	1/11	75%	9/12	100%	7/7
18%	2/11	92%	11/12	18%	2/11
0%	0/12	92%	11/12	100%	12/12
91%	10/11	83%	10/12	22%	2/9
100%	9/9	92%	11/12	0%	0/9
0%	0/11	22%	2/9	0%	0/10
91%	10/11	73%	8/11	10%	1/10
100%	9/9	75%	9/12	9%	1/11
100%	11/11	64%	7/11	0%	0/12
90%	9/10	58%	7/12	0%	0/11
90%	19/21	91%	21/23	95%	19/20
78%	7/9	0%	0/9	0%	0/9
% Dead	# D/T	% Dead	# D/T	% Dead	# D/T
18%	2/11	100%	12/12	10%	12/122
100%	12/12	100%	11/11	100%	12/12
0%	0/11	70%	7/10	89%	8/9
0%	0/10	0%	0/1	83%	10/12
0%	0/12	17%	2/12	92%	11/12
0%	0/12	25%	3/12	17%	2/12
0%	0/12	92%	11/12	0%	0/11
45%	5/11	100%	12/12	0%	0/12
64%	7/11	91%	10/11	0%	0/10
8%	1/12	83%	10/12	0%	0/12
100%	11/11	100%	12/12	100%	11/11
90%	9/10	100%	11/11	60%	6/10
100%	12/12	0%	0/10	100%	12/12
100%	11/11	100%	10/10	90%	9/10
17%	2/12	100%	12/12	83%	10/12
100%	12/12	75%	9/12	50%	6/12
100%	12/12	100%	12/12	83%	10/12
100%	10/10	80%	4/5	100%	9/9
100%	11/11	78%	7/9	82%	9/11
0%	0/11	0%	0/9	64%	7/11
0%	0/12	17%	2/12	78%	7/9
100%	11/11	0%	0/11	83%	10/12
100%	12/12	89%	8/9	67%	6/9
100%	11/11	80%	8/10	100%	10/10
0%	0/9	10%	1/10	56%	5/9

Uniform and Preliminary Test Locations Monthly Rainfall Data, 2017

Location		Monthly Rainfall Measured in Inches per Month					
		May	June	July	August	September	October
IA	Ames	6.4	2.6	3.4	3.9	2.3	7.1
	Boone Co.	6.4	3.2	1.3	3.2	2.4	7.3
	Crawfordsville	5.0	1.6	3.4	3.4	2.3	6.0
	Kanawha	2.2	5.9	3.2	6.1	1.0	2.0
IL	Arthur	5.6	1.7	4.2	0.6	0.7	3.7
	Ivesdale	7.0	1.6	4.6	1.3	0.6	3.0
	Neoga	7.3	1.9	3.4	1.0	0.7	7.1
	Pontiac	3.9	2.5	5.3	1.7	0.4	3.4
	Urbana	7.0	2.0	1.9	2.2	1.2	5.2
IN	Butler	6.8	7.0	3.9	2.1	2.9	4.5
	Wanatah	5.1	2.9	5.3	2.2	1.2	7.6
	West Lafayette	6.9	5.5	8.0	4.8	1.9	2.9
KS	Manhattan	4.0	3.6	1.4	6.1	1.1	2.7
	Onaga	4.0	3.4	4.9	2.8	2.2	2.9
	Ottawa	3.5	7.7	2.1	7.9	4.3	4.4
MI	Britton	4.1	2.1	1.8	1.6	0.7	2.2
	East Lansing	3.6	2.4	3.6	2.0	1.0	7.4
	Saginaw Co.	2.8	5.8	1.9	4.5	0.6	5.4
MN	Crookston	0.9	3.6	0.5	1.0	4.0	0.4
	Danvers	3.8	3.0	1.6	7.3	4.0	3.1
	Lamberton	6.0	2.7	4.0	4.9	2.1	5.9
	Moorhead	1.3	2.7	1.5	2.5	2.9	1.1
	Morris	3.8	3.8	0.9	9.1	4.3	2.9
	Roseau	0.8	1.9	0.4	0.4	6.1	1.2
	Rosemount	6.2	3.5	8.0	7.1	1.7	4.5
	Shelly	0.7	0.8	2.6	1.3	5.5	0.8
	Thief River Falls	2.3	4.4	0.9	0.4	4.7	0.5
	Waseca	5.1	4.2	6.6	3.9	2.0	4.1
MO	Albany	4.3	12.4	5.2	2.2	1.1	5.8
	Novelty	3.4	6.2	0.6	6.9	0.4	6.7
	Portageville (Loam)	7.3	4.6	4.0	1.8	2.8	2.5
ND	Casselton	1.0	3.3	0.6	2.1	5.0	0.5
NE	Cotesfield	5.9	1.7	1.7	7.5	2.1	1.8
	Holdrege	5.3	0.5	5.9	3.6	2.9	2.6
	Phillips	5.3	2.1	3.1	6.2	2.7	5.4
	Steven's Creek	5.0	7.0	3.3	2.7	3.4	4.3
	Wymore	1.6	3.0	1.7	0.7	2.9	6.9
OH	Hoytville	7.3	4.7	6.9	1.9	2.9	2.6
	So. Charleston	5.9	3.6	11.7	4.1	3.1	4.7
	Wooster	6.6	4.0	5.8	1.3	1.5	3.7

Uniform and Preliminary Test Locations Monthly Rainfall Data, 2017

Location		Monthly Rainfall Measured in Inches per Month					
		May	June	July	August	September	October
ONT	Chatham	6.6	4.2	2.8	4.6	2.3	4.8
	Elora	4.7	4.6	1.4	2.7	2.2	3.5
	ORDC - CEF	7.1	5.4	5.1	3.4	2.0	6.6
	Ridgetown	5.7	1.8	1.4	2.4	1.5	2.8
	St. Pauls	5.6	5.0	2.9	1.2	2.9	3.4
	Woodstock	5.6	3.3	0.7	1.3	1.1	4.1
QUE	La Pocatiere	3.0	2.2	1.2	2.2	0.8	7.2
	Saint Hyacinthe	4.2	5.2	3.4	3.4	2.0	4.7
	St. Mathieu de Beloeil	4.2	5.2	3.4	3.4	2.0	4.7

<http://theweathercollector.com/>

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

<https://weather.com/>

Uniform and Preliminary Test Locations, 2017

Location		Tests Conducted By:	UT				PT				UT RR								
			00	0	I	II	III	IV	I	II	III	IV	00	0	I	II	III	IV	
IA	Ames	S. Cianzio/P. Lundeen			<u>X</u>				<u>X</u>										
	Boone Co.	A. Singh/J. Hicks			X	X	X		X	X	X								
	Crawfordsville	S. Cianzio/P. Lundeen					<u>X</u>				<u>X</u>								
	Kanawha	S. Cianzio/P. Lundeen			<u>X</u>				<u>X</u>										
IL	Arthur	B. Diers/ T. Cary					<u>X</u>										<u>X</u>		
	Ivesdale	Nelson/E. Johnson						X											
	Neoga	B. Diers/ T. Cary							<u>X</u>									<u>X</u>	
	Pontiac	B. Diers/ T. Cary				<u>X</u>											<u>X</u> ¹		
	Urbana	B. Diers/ T. Cary				<u>X</u>	<u>X</u>	<u>X</u>		<u>X</u>	<u>X</u>	<u>X</u>					<u>X</u> ¹	<u>X</u>	<u>X</u>
IN	Butler	G. Cai/G. Nowling					<u>X</u>	<u>X</u>				<u>X</u>						<u>X</u>	<u>X</u>
	Wanatah	G. Cai/G. Nowling			X	X	X										<u>X</u>	<u>X</u>	X
	West Lafayette	G. Cai/G. 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> ¹	<u>X</u> ¹	<u>X</u>
KS	Manhattan	W. Schapaugh Jr.					X	X			X	X							
	Onaga	W. Schapaugh Jr.						X				X							
	Ottawa	W. Schapaugh Jr.						X				X							
MI	Britton	D. Wang/R. Laurenz				X												X	
	East Lansing	D. Wang/R. Laurenz			X	X			X	X							X	<u>X</u> ¹	
	Saginaw Co.	D. Wang/R. Laurenz			X												X		
MN	Crookston	A. Lorenz/D. Weston	<u>X</u>	<u>X</u>												<u>X</u>			
	Danvers	A. Lorenz/D. Weston			<u>X</u>				<u>X</u>										
	Lamberton	A. Lorenz/D. Weston				<u>X</u>				<u>X</u>								<u>X</u> ¹	
	Moorhead	A. Lorenz/D. Weston		<u>X</u>															
	Morris	A. Lorenz/D. Weston																<u>X</u> ¹	
	Roseau	A. Lorenz/D. Weston											<u>X</u>						
	Rosemount	A. Lorenz/D. Weston			<u>X</u>				<u>X</u>									<u>X</u> ¹	
	Shelly	A. Lorenz/D. Weston	<u>X</u>														<u>X</u>		
	Thief River Falls	A. Lorenz/D. Weston											<u>X</u>						
Waseca	A. Lorenz/D. Weston				X				<u>X</u>								<u>X</u> ¹		
MO	Albany	A. Scaboo/X. Niu					<u>X</u>	<u>X</u>				<u>X</u>	<u>X</u>					<u>X</u>	<u>X</u>
	Novelty	A. Scaboo/X. Niu					X	<u>X</u>										<u>X</u>	<u>X</u>
	Portageville (Loam)	P. Chen/M. Clubb						X											X
ND	Casselton	T. Helms/D. Hanson	<u>X</u>	<u>X</u>											<u>X</u>	<u>X</u>			
NE	Cotesfield	G. Graef/T. Frederick			<u>X</u>	<u>X</u>			<u>X</u>	<u>X</u>									
	Holdrege	G. Graef/T. Frederick					<u>X</u>					<u>X</u>							
	Phillips	G. Graef/T. Frederick			X	X			<u>X</u>	X									
	Steven's Creek	G. Graef/T. Frederick					<u>X</u>					<u>X</u>						<u>X</u>	
	Wymore	G. Graef/T. Frederick					X					X							
OH	Hoytville	L. McHale/McIntyre				<u>X</u>	<u>X</u>			<u>X</u>	<u>X</u>								
	So. Charleston	L. McHale/Feller					X	X			X								
	Wooster	L. McHale/McIntyre				<u>X</u>				<u>X</u>									

Uniform and Preliminary Test Locations, 2017

Location		Tests Conducted By:	UT				PT				UT RR							
			00	0	I	II	III	IV	I	II	III	IV	00	0	I	II	III	IV
ONT	Chatham	M. Eskandari/J. Kobler			<u>X</u>				<u>X</u>									
	Elora	I. Rajcan/C. Templeton	<u>X</u>	<u>X</u>														
	Ottawa - ORDC-CEF	E. Cober/K. Slusarenko	<u>X</u>	<u>X</u>														
	Ridgetown	M. Eskandari/J. Kobler			<u>X</u>				<u>X</u>									
	St. Pauls	I. Rajcan/C. Templeton			<u>X</u>				<u>X</u>									
	Woodstock	I. Rajcan/C. Templeton		<u>X</u>	<u>X</u>													
QUE	La Pocatiere	J. Auclair/M. Claude	X										X					
	Saint Hyacinthe	J. Auclair/M. Claude			<u>X</u>				<u>X</u>					<u>X</u>	<u>X</u>			
	St. Mathieu de Beloeil	L. O'Donoghue	<u>X</u>	<u>X</u>														
X Locations With Agronomic Data:			7	7	14	15	15	12	11	12	11	6	4	4	7	8	8	7
<u>X</u> Locations With Protein & Oil Data:			6	7	9	9	9	6	9	9	7	4	3	4	5	6	7	6
<u>X</u> ¹ Locations With Fatty Acid Data:															3	6		

UNIFORM TEST 00, 2017								
Ent.	Strain	Parentage	Seed Source	Previous Testing	Gen. Comp.	Unique Traits	Germ. %	Sd. Wt. g/100
1	MN0071 (00)	Harmony x OT92-8	Lorenz	17	F5	Rps1	92	13.4
2	MN0095 (0)	M92-270029 x M93-313185	Lorenz	9	F5	Rps1	90	13.2
3	ND Henson	ND03-5672 x Hamlin	Helms	4	F4		96	15.4
4	M10-207102	M03-165068 x M04-419020	Lorenz	1	F5		99	15.9
5	M11-238102	LD05-16638 x PI603432B	Lorenz	Initial	F5	Aphid	99	14.5
6	M11-253-4066	M03-149100 x MN0071	Lorenz	Initial	F5	SCN	96	12.6
7	M11-271059	MN0504 X MN0606CN	Lorenz	Initial	F5	SCN	90	15.2
8	M11-271062	MN0504 x MN0606CN	Lorenz	Initial	F5	SCN	90	15.5
9	M11-291118	M04-219004 X M05-182023	Lorenz	Initial	F5		96	13.0
10	ND12-15628	M00-30755 x ND05-17649	Helms	2	F4		99	14.0
11	ND12-15647	M00-30755 x ND05-17649	Helms	2	F4		98	12.7
12	ND14-2194	ND07-4069 x ND07-3994	Helms	Initial	F4		98	16.3
13	ND14-2631	Ashtabula x ND07-3987	Helms	Initial	F4		99	14.4
14	ND14-2678	ND07-4635 x ND03-7566	Helms	Initial	F4		99	17.5
15	ND14-3068	ND07-2330 x ND07-3994	Helms	Initial	F4		97	16.8
16	ND14-3442	ND07-2019 x Pembina	Helms	Initial	F4		97	15.6
17	ND14-4455	ND04-11421 x Sheyenne	Helms	Initial	F4		96	17.2
18	ND14-4462	ND04-11421 x Sheyenne	Helms	Initial	F4		93	14.7
19	ND14-4468	ND04-11421 x Sheyenne	Helms	Initial	F4		95	16.3
20	ND14-5440	Ashtabula x Sheyenne	Helms	Initial	F4		95	15.8
21	OAC 14-05C	OAC Lakeview x Venus	Rajcan	Initial	F5			

UNIFORM TEST 00, 2017
DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	IDC
		Score
		Danvers
MN0071 (00)	PTBIYBrI	2.0
MN0095 (0)	PGTDYDibI	1.5
ND Henson	PTBDYBI	3.0
M10-207102	PGTSYG+DibI	2.0
M11-238102	WTBSYBrI	2.8
M11-253-4066	PTBSYBrI	2.8
M11-271059	WGBIYBI	2.8
M11-271062	WTBSYBI	2.5
M11-291118	P+WTBSYG+LbrI	2.3
ND12-15628	PGTDYYI	2.0
ND12-15647	PGTSYDib+BfI	1.8
ND14-2194	PGTSYLbI	2.3
ND14-2631	PGTDYDI	2.3
ND14-2678	WTBDYBr+YI	2.5
ND14-3068	WGBIYBfI	2.0
ND14-3442	PTBIYBrI	2.5
ND14-4455	PTBSYDbrI	2.0
ND14-4462	PGTDYBrI	2.3
ND14-4468	PGTIYYI	2.0
ND14-5440	PGTIYYI	3.3
OAC 14-05C	PTBIYYI	2.0

UNIFORM TEST 00, 2017

REGIONAL SUMMARY

No. of Tests Strain	Yield 6 bu/a	Rank 6 No.	Maturity 7 Date	Lodging 6 Score	Plant Height 7 In.	Seed Size 7 g/100	Seed Quality 6 Score	Composition	
								Protein 6 %	Oil 6 %
MN0071 (00)	45.6	21	9/10	1.4	28	16.3	1.4	34.3	18.5
MN0095 (0)	49.8	20	5.9	1.1	28	12.8	1.1	33.9	18.2
ND Henson	55.4	9	4.7	1.3	29	16.0	1.3	33.8	18.5
M10-207102	50.8	19	5.8	1.2	29	16.6	1.5	37.3	16.3
M11-238102	54.3	14	7.4	1.7	36	14.2	1.1	33.8	17.9
M11-253-4066	54.4	12	8.3	1.7	35	13.6	1.1	33.4	18.2
M11-271059	55.2	11	7.1	1.3	30	15.7	1.3	33.7	18.6
M11-271062	54.3	14	7.0	1.2	30	15.3	1.3	33.5	18.6
M11-291118	54.4	12	7.8	1.3	35	13.8	1.1	35.0	17.4
ND12-15628	55.3	10	2.9	1.5	33	13.4	1.2	34.4	17.5
ND12-15647	58.0	3	4.4	1.2	31	13.2	1.3	33.9	18.2
ND14-2194	59.9	1	5.1	1.3	34	16.2	1.3	33.1	18.6
ND14-2631	59.6	2	9.6	1.4	30	15.7	1.2	32.9	18.5
ND14-2678	55.7	8	7.8	1.1	27	16.2	1.4	32.9	18.5
ND14-3068	56.1	6	10.1	1.3	33	15.6	1.5	31.7	18.1
ND14-3442	53.6	16	4.5	1.3	28	15.5	1.1	33.7	18.3
ND14-4455	56.6	5	6.4	1.7	35	18.6	1.6	35.2	17.8
ND14-4462	57.4	4	6.0	1.1	28	14.8	1.3	34.6	17.4
ND14-4468	52.4	18	2.4	1.0	28	15.8	1.5	34.5	17.7
ND14-5440	53.2	17	5.3	1.0	27	15.5	1.3	34.9	18.4
OAC 14-05C	56.0	7	8.4	1.3	34	15.7	1.5	34.8	17.7
Mean	53.3		10.7	1.4	28.4	16.2	1.3		
C.V. (%)	11.5		18.4	28.4	9.9	4.2	25.6		
L.S.D. (5%)	3.7		1.2	0.2	1.7	0.6	0.3		

115.0 Days After Planting

UNIFORM TEST 00, 2017**2016-2017 2-YEAR MEAN**

No. of Tests Strain	Yield 15 bu/a	Rank 15 No.	Maturity 16 Date	Lodging 15 Score	Plant Height 15 In.	Seed Size 15 g/100	Seed Quality 13 Score	Composition	
								Protein 14 %	Oil 14 %
MN0071 (00)	44.5	7	9/9	1.4	29	16.1	1.5	34.2	19.0
MN0095 (0)	57.7	2	10.9	1.4	31	14.6	1.3	34.6	18.3
ND Henson	56.0	4	4.7	1.3	29	16.0	1.4	34.3	18.7
M10-207102	53.3	6	6.0	1.2	29	16.8	1.6	37.7	16.4
ND12-15628	55.8	5	2.3	1.4	33	13.4	1.4	34.4	18.0
ND12-15647	58.7	1	4.8	1.1	31	13.3	1.4	34.2	18.4
OAC 14-05C	57.6	3	9.1	1.6	34	16.0	1.7	35.0	17.9

114.5 Days After Planting

2015-2017 3-YEAR MEAN

No. of Tests Strain	24	24	25	24	23	23	19	19	19
MN0071 (00)	44.8	4	9/9	1.3	27	15.6	1.6	35.0	19.7
MN0095 (0)	55.3	2	9.0	1.2	29	13.7	1.4	36.1	18.6
ND Henson	55.3	2	4.8	1.2	28	15.6	1.5	36.0	19.0
ND12-15628	54.0	3	2.2	1.3	31	13.0	1.5	35.3	18.7
ND12-15647	57.5	1	4.9	1.1	30	13.0	1.6	35.3	18.9

113.9 Days After Planting

UNIFORM TEST 00, 2017

YIELD (bu/a)

Strain	Mean 6 Tests	Crook- ston MN	Shelly* MN	Cassel- ton ND	Elora ONT	Ottawa ONT	La Pocatiere QUE	St Mathieu de Beloeil QUE
MN0071 (00)	45.6	46.4	29.4	39.4	43.3	33.2	46.8	64.3
MN0095 (0)	49.8	44.8	28.3	56.4	40.0	39.4	57.1	61.1
ND Henson	55.4	43.3	43.3	54.3	47.0	45.0	66.8	75.7
M10-207102	50.8	42.7	33.9	49.3	43.2	44.6	57.1	67.8
M11-238102	54.3	43.9	39.8	55.0	46.6	42.7	64.4	73.0
M11-253-4066	54.4	37.6	44.8	53.4	50.8	42.6	64.6	77.2
M11-271059	55.2	54.8	36.0	51.3	44.5	41.2	67.8	71.9
M11-271062	54.3	55.5	31.9	49.5	42.7	41.0	64.2	72.6
M11-291118	54.4	53.3	36.8	52.9	45.9	41.4	56.0	76.6
ND12-15628	55.3	55.0	34.2	62.3	47.9	42.5	60.3	63.5
ND12-15647	58.0	53.7	34.1	63.0	55.6	48.7	63.2	63.7
ND14-2194	59.9	52.6	40.5	54.4	52.7	49.5	67.2	83.1
ND14-2631	59.6	56.7	45.0	56.3	50.2	47.2	63.7	83.4
ND14-2678	55.7	48.6	38.4	62.3	46.4	47.5	66.0	63.3
ND14-3068	56.1	49.1	27.8	56.4	48.3	47.3	60.2	75.3
ND14-3442	53.6	48.9	33.0	53.3	47.8	42.8	53.3	75.7
ND14-4455	56.6	54.3	34.2	52.7	46.1	43.0	63.7	79.7
ND14-4462	57.4	56.6	35.1	51.0	51.4	50.4	64.4	70.6
ND14-4468	52.4	55.3	35.3	44.2	48.1	41.0	55.9	69.7
ND14-5440	53.2	44.0	36.6	48.0	48.5	46.7	62.1	70.1
OAC 14-05C	56.0	51.9	37.7	57.5	49.2	45.7	62.9	68.5
Location Mean		50.0	36.0	53.5	47.4	44.0	61.3	71.8
C.V. (%)		10.5	22.5	8.7	9.4	6.7	5.1	10.7
L.S.D. (5%)		8.8	13.5	8.0	7.3	4.0	4.9	12.7
Row Sp. (In.)		12	10	30	14	17.7	7	7
Rows/Plot		8	8	4	4	4	4	5
Reps		3	3	3	3	3	3	3

*Data not included in the mean.

UNIFORM TEST 00, 2017

YIELD RANK

Strain	Yield Rank	Crookston MN	Shelly MN	Casselton ND	Elora ONT	Ottawa ONT	La Pocatiere QUE	St Mathieu de Beloeil QUE
MN0071 (00)	21	15	19	21	18	21	21	17
MN0095 (0)	20	16	20	5	21	20	16	21
ND Henson	9	19	3	10	12	9	3	7
M10-207102	19	20	16	18	19	10	16	16
M11-238102	14	18	5	8	13	13	6	9
M11-253-4066	12	21	2	11	4	14	5	4
M11-271059	11	6	10	15	17	17	1	11
M11-271062	14	3	18	17	20	19	8	10
M11-291118	12	9	8	13	16	16	18	5
ND12-15628	10	5	13	2	10	15	14	19
ND12-15647	3	8	15	1	1	3	11	18
ND14-2194	1	10	4	9	2	2	2	2
ND14-2631	2	1	1	7	5	6	9	1
ND14-2678	8	14	6	2	14	4	4	20
ND14-3068	6	12	21	5	8	5	15	8
ND14-3442	16	13	17	12	11	12	20	6
ND14-4455	5	7	14	14	15	11	9	3
ND14-4462	4	2	12	16	3	1	6	12
ND14-4468	18	4	11	20	9	18	19	14
ND14-5440	17	17	9	19	7	7	13	13
OAC 14-05C	7	11	7	4	6	8	12	15

UNIFORM TEST 00, 2017

MATURITY (date)

Strain	Mean 7 Tests	Crook- ston MN	Shelly MN	Cassel- ton ND	Elora ONT	Ottawa ONT	La Pocatiere QUE	St Mathieu de Beloeil QUE
MN0071 (00)	9/10	9/10	9/14	9/4	9/17	9/5	9/13	9/10
MN0095 (0)	6	1	6	9	3	9	7	6
ND Henson	5	2	2	8	2	7	7	5
M10-207102	6	4	2	7	4	10	7	6
M11-238102	7	5	3	10	2	13	12	6
M11-253-4066	8	7	4	10	6	12	12	7
M11-271059	7	3	9	9	4	8	12	5
M11-271062	7	6	5	8	4	8	12	6
M11-291118	8	5	2	9	7	12	12	7
ND12-15628	3	0	2	6	3	6	0	3
ND12-15647	4	1	2	9	2	8	5	3
ND14-2194	5	4	4	9	1	9	5	4
ND14-2631	10	7	12	13	4	11	12	8
ND14-2678	8	3	7	10	4	11	12	8
ND14-3068	10	10	12	13	6	14	9	7
ND14-3442	4	1	4	7	3	5	7	4
ND14-4455	6	4	4	9	5	10	7	6
ND14-4462	6	4	5	8	1	9	9	6
ND14-4468	2	1	-1	1	2	6	5	2
ND14-5440	5	7	4	7	3	7	5	4
OAC 14-05C	8	10	10	11	5	15	0	8
Date Planted	5/18	5/12	5/7	5/5	6/2	5/18	5/25	5/29
Days to Mature	115	121	130	122	107	110	111	104

UNIFORM TEST 00, 2017

LODGING (score)

Strain	Mean 6 Tests	Crook- ston MN	Shelly MN	Cassel- ton ND	Elora ONT	Ottawa ONT	La Pocatiere QUE	St Mathieu de Beloeil QUE
MN0071 (00)	1.4	1.0	1.0	1.0	1.0	2.3		2.0
MN0095 (0)	1.1	1.0	1.0	1.0	1.0	1.0		1.7
ND Henson	1.3	1.0	1.0	1.0	1.0	2.0		1.7
M10-207102	1.2	1.0	1.0	1.0	1.0	1.7		1.7
M11-238102	1.7	1.0	1.0	1.7	1.2	2.3		2.7
M11-253-4066	1.7	1.0	1.0	1.3	1.3	2.7		2.7
M11-271059	1.3	1.0	1.0	1.0	1.0	2.0		1.7
M11-271062	1.2	1.0	1.0	1.0	1.0	1.7		1.7
M11-291118	1.3	1.0	1.0	1.0	1.0	2.0		2.0
ND12-15628	1.5	1.0	1.0	1.0	1.0	2.7		2.0
ND12-15647	1.2	1.0	1.0	1.0	1.0	1.7		1.3
ND14-2194	1.3	1.0	1.0	1.0	1.0	2.3		1.7
ND14-2631	1.4	1.0	1.0	1.0	1.2	2.7		1.3
ND14-2678	1.1	1.0	1.0	1.0	1.0	1.3		1.3
ND14-3068	1.3	1.0	1.0	1.0	1.0	2.0		1.7
ND14-3442	1.3	1.0	1.0	1.0	1.0	2.0		2.0
ND14-4455	1.7	1.0	1.0	1.0	1.2	3.7		2.0
ND14-4462	1.1	1.0	1.0	1.0	1.0	1.7		1.0
ND14-4468	1.0	1.0	1.0	1.0	1.0	1.0		1.0
ND14-5440	1.0	1.0	1.0	1.0	1.0	1.0		1.0
OAC 14-05C	1.3	1.0	1.0	1.0	1.0	2.3		1.7

UNIFORM TEST 00, 2017

PLANT HEIGHT (inches)

Strain	Mean 7 Tests	Crook- ston MN	Shelly MN	Cassel- ton ND	Elora ONT	Ottawa ONT	La Pocatiere QUE	St Mathieu de Beloeil QUE
MN0071 (00)	28	23	20	29	29	27	44	26
MN0095 (0)	28	20	17	31	29	26	48	26
ND Henson	29	20	24	27	27	33	52	23
M10-207102	29	20	22	26	25	28	54	26
M11-238102	36	26	25	38	31	31	70	32
M11-253-4066	35	24	24	33	33	30	68	33
M11-271059	30	27	23	33	28	29	46	26
M11-271062	30	29	21	29	25	30	48	25
M11-291118	35	32	24	33	31	29	67	30
ND12-15628	33	30	21	32	33	33	53	28
ND12-15647	31	26	21	33	29	29	50	28
ND14-2194	34	28	25	34	31	32	60	28
ND14-2631	30	25	24	34	30	29	44	27
ND14-2678	27	21	21	25	25	25	53	21
ND14-3068	33	28	21	35	33	32	54	30
ND14-3442	28	24	21	29	27	26	42	25
ND14-4455	35	31	26	38	32	30	54	31
ND14-4462	28	24	19	28	25	26	52	23
ND14-4468	28	27	21	26	28	28	42	25
ND14-5440	27	22	21	28	24	25	45	23
OAC 14-05C	34	29	24	34	34	31	56	29

UNIFORM TEST 00, 2017

SEED SIZE (g/100)

Strain	Mean 7 Tests	Crook- ston MN	Shelly MN	Cassel- ton ND	Elora ONT	Ottawa ONT	La Pocatiere QUE	St Mathieu de Beloeil QUE
MN0071 (00)	16.3	13.2	14.2	17.1	18.3	16.4	15.8	18.8
MN0095 (0)	12.8	9.6	10.9	14.1	13.2	14.2	12.8	15.0
ND Henson	16.0	12.4	14.7	16.9	17.1	16.6	15.8	18.6
M10-207102	16.6	12.3	14.6	17.2	18.1	18.1	15.9	19.8
M11-238102	14.2	10.2	12.5	14.8	16.1	15.5	13.9	16.4
M11-253-4066	13.6	9.6	12.7	13.6	15.3	14.7	13.8	15.3
M11-271059	15.7	11.5	13.2	18.2	16.8	15.9	16.0	18.3
M11-271062	15.3	11.9	13.2	15.9	16.1	15.5	16.2	18.2
M11-291118	13.8	10.9	11.6	14.2	15.1	14.8	13.7	16.5
ND12-15628	13.4	10.5	11.7	14.8	15.2	14.0	12.0	15.5
ND12-15647	13.2	10.0	11.3	15.4	14.2	13.8	12.7	15.2
ND14-2194	16.2	13.9	15.0	16.2	16.0	16.8	16.4	19.4
ND14-2631	15.7	13.0	13.5	16.6	16.2	15.9	16.0	18.5
ND14-2678	16.2	13.8	14.4	16.8	17.0	17.5	15.6	18.5
ND14-3068	15.6	13.3	13.9	16.1	15.3	16.1	15.5	18.8
ND14-3442	15.5	12.5	13.2	17.2	16.3	15.5	15.1	19.0
ND14-4455	18.6	15.1	15.4	19.6	20.2	19.4	19.2	21.1
ND14-4462	14.8	12.4	13.4	16.0	14.8	14.8	15.4	16.6
ND14-4468	15.8	13.6	14.2	16.9	17.1	16.3	14.9	17.4
ND14-5440	15.5	12.6	12.7	16.1	16.3	15.7	16.6	18.6
OAC 14-05C	15.7	12.8	13.1	15.3	16.5	16.9	16.6	18.8

UNIFORM TEST 00, 2017

SEED QUALITY (score)

Strain	Mean 6 Tests	Crook- ston MN	Shelly MN	Cassel- ton ND	Elora ONT	Ottawa ONT	La Pocatiere QUE	St Mathieu de Beloeil QUE
MN0071 (00)	1.4	1.0	1.0	2.0	1.5	1.7		1.0
MN0095 (0)	1.1	1.0	1.0	1.0	1.5	1.3		1.0
ND Henson	1.3	1.0	1.0	1.0	1.5	2.0		1.0
M10-207102	1.5	2.0	1.0	1.0	1.5	2.0		1.3
M11-238102	1.1	1.0	1.0	1.0	1.5	1.0		1.0
M11-253-4066	1.1	1.0	1.0	1.0	1.5	1.0		1.0
M11-271059	1.3	1.0	1.0	1.0	1.5	2.0		1.0
M11-271062	1.3	1.0	1.0	1.0	1.5	2.0		1.0
M11-291118	1.1	1.0	1.0	1.0	1.5	1.3		1.0
ND12-15628	1.2	1.0	1.0	1.0	1.5	1.7		1.0
ND12-15647	1.3	1.0	1.0	2.0	1.5	1.0		1.0
ND14-2194	1.3	1.0	1.0	1.0	1.5	2.0		1.0
ND14-2631	1.2	1.0	1.0	1.0	1.0	2.0		1.0
ND14-2678	1.4	1.0	1.0	1.0	2.0	2.0		1.3
ND14-3068	1.5	1.0	2.0	2.0	1.5	1.3		1.0
ND14-3442	1.1	1.0	1.0	1.0	1.5	1.3		1.0
ND14-4455	1.6	2.0	1.0	1.0	2.0	2.3		1.0
ND14-4462	1.3	1.0	1.0	1.0	2.0	2.0		1.0
ND14-4468	1.5	1.0	2.0	1.0	2.0	1.7		1.0
ND14-5440	1.3	1.0	1.0	1.0	1.5	2.0		1.0
OAC 14-05C	1.5	1.0	2.0	1.0	1.5	1.7		2.0

UNIFORM TEST 00, 2017

PROTEIN (%)

Strain	Mean 6 Tests	Crookston MN	Shelly MN	Casselton ND	ORDC- * CEF ONT	Elora* ONT	Saint-Mathieu de-Beloeil QUE
MN0071 (00)	34.3	32.2	33.8	35.0	34.3	35.9	34.7
MN0095 (0)	33.9	31.9	32.2	33.7	34.3	36.2	35.1
ND Henson	33.8	31.7	33.1	34.3	33.8	35.9	34.2
M10-207102	37.3	34.6	35.7	37.2	38.5	39.5	38.5
M11-238102	33.8	33.3	33.5	34.4	33.2	34.8	33.7
M11-253-4066	33.4	32.7	33.9	33.1	32.2	35.1	33.4
M11-271059	33.7	31.6	32.3	34.6	33.1	36.4	34.2
M11-271062	33.5	32.7	31.7	33.2	33.1	36.0	34.1
M11-291118	35.0	33.6	34.5	35.4	34.6	36.1	35.8
ND12-15628	34.4	33.5	33.5	34.9	33.8	35.7	35.2
ND12-15647	33.9	32.8	33.1	33.4	34.1	35.1	34.7
ND14-2194	33.1	31.5	32.3	34.2	32.8	33.8	34.2
ND14-2631	32.9	32.2	31.9	32.5	33.1	33.7	33.7
ND14-2678	32.9	31.3	31.9	33.2	32.5	35.0	33.7
ND14-3068	31.7	29.9	30.9	32.4	30.8	33.4	32.8
ND14-3442	33.7	31.4	33.1	34.0	33.3	35.1	35.3
ND14-4455	35.2	34.0	34.1	35.9	34.2	36.5	36.3
ND14-4462	34.6	33.7	33.4	35.5	34.0	36.1	34.9
ND14-4468	34.5	33.8	33.2	34.9	33.8	36.2	34.9
ND14-5440	34.9	33.9	33.9	35.4	34.0	35.8	36.3
OAC 14-05C	34.8	33.0	34.4	35.0	34.2	36.4	35.6

*Data adjusted to 13% moisture

UNIFORM TEST 00, 2017

OIL (%)

Strain	Mean 6 Tests	Crookston MN	Shelly MN	Casselton ND	ORDC- * CEF ONT	Elora* ONT	Saint-Mathieu de-Beloeil QUE
MN0071 (00)	18.5	19.2	18.7	19.0	18.9	17.8	17.3
MN0095 (0)	18.2	19.5	19.3	19.1	18.7	16.8	16.0
ND Henson	18.5	19.1	18.9	19.5	19.0	17.8	16.8
M10-207102	16.3	17.5	17.4	17.7	16.0	15.6	13.9
M11-238102	17.9	18.0	18.4	18.2	18.4	17.7	16.4
M11-253-4066	18.2	18.3	18.3	19.2	19.0	17.7	16.6
M11-271059	18.6	19.4	19.3	19.4	19.2	17.8	16.7
M11-271062	18.6	18.8	19.4	19.9	19.0	17.9	16.8
M11-291118	17.4	18.1	18.1	18.1	17.7	17.0	15.6
ND12-15628	17.5	17.9	18.3	18.3	18.1	16.7	15.9
ND12-15647	18.2	18.8	18.7	19.7	18.4	17.4	16.4
ND14-2194	18.6	19.1	18.8	19.2	19.5	18.0	16.9
ND14-2631	18.5	19.0	19.1	20.0	18.9	17.5	16.5
ND14-2678	18.5	19.4	19.3	19.0	19.2	17.7	16.4
ND14-3068	18.1	19.0	19.0	18.3	19.0	17.2	16.3
ND14-3442	18.3	19.3	18.6	18.8	19.0	17.7	16.5
ND14-4455	17.8	18.1	18.4	18.3	18.5	17.3	15.9
ND14-4462	17.4	17.7	18.4	18.3	17.8	16.7	15.8
ND14-4468	17.7	17.9	18.3	19.1	18.4	16.7	16.1
ND14-5440	18.4	18.8	18.9	19.6	19.2	17.5	16.3
OAC 14-05C	17.7	18.2	18.2	18.4	18.5	17.1	16.0

*Data adjusted to 13% moisture

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UNIFORM TEST 0, 2017								
Ent.	Strain	Parentage	Seed Source	Previous Testing	Gen. Comp.	Unique Traits	Germ. %	Sd. Wt. g/100
1	Sheyenne (O)	Pioneer 9071 x A96-492041	Helms	10	F4	Rps1-c	97	12.2
2	MN0095 (E)	M92-270029 x M93-313185	Lorenz	6	F5	Rps1	90	13.2
3	MN0404CN (SCN)	MN0902CN x MN0304	Lorenz	Initial		SCN, Rpsk1, PLT	95	13.8
4	MN1410 (I)	Unknown	Lorenz	9	F5		99	16.2
5	M07-260028		Lorenz	Initial	F5		100	15.4
6	M08-359053	M02-391112 x MN1701CN	Lorenz	2	F5	SCN	94	15.2
7	M08-362045	MN0606CN x U03-100612	Lorenz	1	F5	SCN, PI 88788, Peking	99	13.2
8	M09-251081	PI578425 x M04-267028	Lorenz	1	F5	Wilt	99	13.1
9	M09-269045	MN0908CN x LD02-4485	Lorenz	1	F5	SCN, PI 88788, 209332	93	12.4
10	M09-305144	M01-315029 x OAC05-17	Lorenz	QT 1	F5		95	14.0
11	M10-186021	M02-385091 x LD02-4485	Lorenz	SCNPT0	F5	SCN	99	14.3
12	M11-120121	Sheyenne x XP2410	Lorenz	PT0	F5	YLD	99	15.1
13	M11-131044	XY2510 x Sheyenne	Lorenz	PT0	F5	YLD	99	16.3
14	M11-244115	M01-213045 x M05-350061	Lorenz	Initial	F5	SCN	93	17.4
15	M11-244139	M01-213045 x M05-350061	Lorenz	Initial	F5	SCN	89	16.1
16	M11-245026	M02-385091 x DEUEL	Lorenz	Initial	F5	SCN	94	13.5
17	M11-271064	MN0504 x MN0606CN	Lorenz	Initial	F5	SCN	96	15.4
18	M11-276036	MN1701CN x SD04CV-611	Lorenz	Initial	F5	SCN	91	17.1
19	M11-278003	MN0907 x ND06-5248	Lorenz	Initial	F5		95	17.9
20	M11-279046	MN05-286085 x SD05-240	Lorenz	Initial	F5		99	16.5
21	M11-298308		Lorenz	Initial	F5		96	16.2
22	M11-337015	M97-357138 x MN1606SP	Lorenz	Initial	F5		97	18.2
23	M11-377115	PI561389B x M05-175-1039	Lorenz	Initial	F5		98	14.0
24	MBC11-424-1-25	ND07-2303 x XMAS -M5-10	Lorenz	Initial	F5		97	14.7
25	MBC11-424-1-48	ND07-2303 x XMAS -M5-10	Lorenz	Initial	F5		99	12.0
26	MBC11-425-5-002	Glabrous x Noir1-SGC-01	Lorenz	Initial	F5		99	15.5
27	MBC11-425-5-010	Glabrous x Noir1-SGC-01	Lorenz	Initial	F5		98	14.5
28	ND10-2763	Sheyenne x ND03-5441	Helms	2	F4	PI 88788, Rps6	94	14.2
29	ND10-3067	Sheyenne x [LaMoure(2)Rag1]	Helms	4	F4	PI 88788, Rps1c	99	16.0
30	ND10-3464	ND03-7566 x [ND03-5441 x LaMoure]	Helms	2	F4	PI 88788, Rps6	98	15.6
31	ND12-19542	Cavalier x (Wallace x Sheyenne)	Helms	1	F4		98	17.6
32	ND13-4508	P. 91M10 x Sheyenne	Helms	Initial	F4		94	17.5
33	ND13-7564	SD03-2154 x [Sheyenne x LaMoure-1]	Helms	Initial	F4		97	16.1
34	ND13-7810	ND03-7566 x ND06-25513	Helms	PT0	F4	PI 88788, Rps6	97	14.1
35	ND13-8691	ND06-25513 x [Ashtabula x Sheyenne]	Helms	Initial	F4		98	16.6
36	ND13-8892	P. 91M10 x Sheyenne	Helms	Initial	F4		98	16.3
37	ND13-8894	P. 91M10 x Sheyenne	Helms	Initial	F4		99	17.4
38	ND13-9073	P. 91M10 x [Ashtabula x Sheyenne-1]	Helms	Initial	F4		99	16.5
39	ND14-2373	Hamlin x Duel	Helms	Initial	F4		96	20.4
40	ND14-2661	Astabula x ND07-3987	Helms	Initial	F4		98	15.2
41	ND14-2671	ND07-4635 x ND03-7566	Helms	Initial	F4		97	15.7
42	ND14-2677	ND07-4635 x ND03-7566	Helms	Initial	F4		95	16.7
43	OAC 15-06C	OAC Wallace x Colby	Rajcan	Initial	F5			
44	OAC 15-11C	OAC Wallace x DH748	Rajcan	Initial	F5			
45	OAC 15-13C	OAC Wallace x DH748	Rajcan	Initial	F5			
46	OAC 15-15C	OAC Wallace x OAC Sunny	Rajcan	Initial	F5			

UNIFORM TEST 0, 2017

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	IDC
		Score
		Danvers
Sheyenne (0)	PGTSYYI	2.5
MN0095 (E)	PGTDYDibI	1.3
MN0404CN (SCN)	PTBSYDbrI	2.3
MN1410 (I)	WGBSYDbfI	3.5
M07-260028	P+WGTIYYI	3.0
M08-359053	PTBDYYI	2.8
M08-362045	WGBIYB+YI	2.3
M09-251081	PGTSYBfI	3.3
M09-269045	PTBDYYI	3.3
M09-305144	P+WTBDYBrI	2.5
M10-186021	PGTDYBrI	2.5
M11-120121	PGTDYGI	3.3
M11-131044	WGBIYYI	4.0
M11-244115	WGTDYDbfI	2.5
M11-244139	WGTDYBfI	2.3
M11-245026	PTBDYYI	2.5
M11-271064	WT+GB+TDYDbrI	2.3
M11-276036	P+WTBIYBr+GI	2.3
M11-278003	PGTDYYI	2.5
M11-279046	PGTDYDbfI	3.5
M11-298308	PTBSYLbI	2.8
M11-337015	PGBDYIbfI	1.8
M11-377115	PTBSYDbrI	2.5
MBC11-424-1-25	P+WT+GBDYYI	2.5
MBC11-424-1-48	P+WT+GT+BDYBf+YI	2.3
MBC11-425-5-002	PTBDYDbrI	2.0
MBC11-425-5-010	PGBDYYI	2.5
ND10-2763	PGTDYYI	2.0
ND10-3067	PGBIYYI	1.5
ND10-3464	WGTIYBfI	1.8
ND12-19542	PGBIYDbfI	2.0
ND13-4508	P+WTBDYYI	2.3
ND13-7564	PGBIYY+LbI	3.8
ND13-7810	PGTSYDibI	3.3
ND13-8691	PGBSYBfI	2.0
ND13-8892	PGTDYYI	2.0
ND13-8894	PGTIYYI	3.3
ND13-9073	PGTIYYI	2.8
ND14-2373	P+WTBIYBI	1.8
ND14-2661	PGTDYYI	1.8
ND14-2671	WGBSYYI	2.5
ND14-2677	WT+GT+BIYB+BfI	2.5
OAC 15-06C	PTBSYY+GI	2.5
OAC 15-11C	PTBSYYI	3.3
OAC 15-13C	PTBSYYI	2.3
OAC 15-15C	PTBSYYI	3.8

UNIFORM TEST 0, 2017

REGIONAL SUMMARY

No. of Tests Strain	Yield 5 bu/a	Rank 5 No.	Maturity 7 Date	Lodging 7 Score	Plant Height 7 In.	Seed Size 7 g/100	Seed Quality 7 Score	Composition	
								Protein 7 %	Oil 7 %
Sheyenne (O)	63.8	6	9/22	1.4	32	16.0	1.4	34.5	17.1
MN0095 (E)	47.3	44	-5.8	1.2	26	12.8	1.3	35.1	17.7
MN0404CN (SCN)	52.6	38	-4.2	1.5	30	14.5	1.4	34.3	18.0
MN1410 (I)	63.3	7	6.8	1.3	34	16.5	1.6	35.0	18.0
M07-260028	49.2	43	-0.6	1.2	28	16.0	1.4	36.1	16.4
M08-359053	36.0	46	6.1	1.5	29	15.7	2.1	34.6	17.9
M08-362045	58.9	26	3.4	1.4	32	15.3	1.3	35.1	17.8
M09-251081	46.8	45	5.4	1.4	31	15.7	1.3	35.3	18.0
M09-269045	51.8	39	3.6	1.2	31	14.2	1.6	34.8	17.6
M09-305144	53.9	37	2.8	1.2	30	16.6	1.6	32.8	18.7
M10-186021	60.7	18	8.1	1.4	30	14.4	1.6	33.9	18.1
M11-120121	51.5	40	7.5	1.3	31	14.5	1.5	35.7	17.3
M11-131044	62.0	12	3.8	1.3	33	15.5	1.4	36.7	16.9
M11-244115	54.3	34	2.0	1.4	35	16.2	1.4	35.6	17.4
M11-244139	60.4	19	1.2	1.5	35	16.9	1.4	34.8	17.4
M11-245026	57.3	27	1.0	1.4	33	14.7	1.7	35.3	17.5
M11-271064	50.5	42	-3.9	1.1	28	15.1	1.4	35.5	17.9
M11-276036	60.2	21	6.2	1.3	32	18.5	1.5	37.0	17.5
M11-278003	50.6	41	-3.6	1.2	29	17.0	1.3	34.8	18.3
M11-279046	55.2	32	-0.4	1.2	31	16.8	1.2	36.2	17.0
M11-298308	59.5	23	3.5	1.4	33	16.2	1.8	36.6	17.2
M11-337015	61.6	14	3.0	1.3	32	17.3	1.4	36.3	17.4
M11-377115	55.9	29	0.1	1.4	29	15.9	1.1	34.9	17.6
MBC11-424-1-25	54.0	36	1.1	1.3	31	14.4	1.4	36.4	17.3
MBC11-424-1-48	56.0	28	0.8	1.3	31	14.4	1.5	36.4	17.2
MBC11-425-5-002	59.2	25	4.6	1.1	29	16.1	1.1	35.4	17.4
MBC11-425-5-010	55.1	33	1.1	1.5	30	15.3	1.1	33.9	19.0
ND10-2763	59.5	23	-3.0	1.3	29	13.5	1.1	34.6	17.5
ND10-3067	66.8	3	-0.0	1.3	32	15.6	1.2	34.2	17.5
ND10-3464	54.2	35	-2.0	1.3	29	14.8	1.2	35.8	16.8
ND12-19542	65.1	5	2.1	1.3	32	16.8	1.4	34.7	17.5
ND13-4508	65.5	4	-1.0	1.2	30	16.6	1.2	35.0	17.0
ND13-7564	61.3	15	3.3	1.3	32	15.6	1.5	33.7	18.4
ND13-7810	61.7	13	-0.1	1.4	32	13.7	1.4	33.7	17.8
ND13-8691	63.1	9	2.5	1.2	33	15.9	1.3	35.4	17.8
ND13-8892	68.0	2	2.0	1.3	33	16.0	1.2	35.2	17.4
ND13-8894	69.0	1	4.1	1.5	35	17.5	1.4	34.9	17.5
ND13-9073	62.2	10	0.7	1.1	29	15.4	1.5	34.1	18.0
ND14-2373	62.2	10	2.6	1.5	35	19.1	1.5	35.9	17.6
ND14-2661	55.9	29	-3.5	1.2	30	15.7	1.1	33.7	18.4
ND14-2671	63.2	8	3.0	1.3	33	15.9	1.8	33.7	17.7
ND14-2677	55.5	31	1.9	1.1	27	16.2	1.5	34.1	18.0
OAC 15-06C	61.3	15	-0.8	1.0	27	18.9	1.5	34.6	18.0
OAC 15-11C	59.6	22	-1.5	1.0	27	18.3	1.8	32.0	18.5
OAC 15-13C	60.8	17	-1.6	1.1	28	18.8	1.6	32.4	18.7
OAC 15-15C	60.3	20	1.1	1.1	28	16.5	1.4	33.3	18.7
Mean	57.8		8.6	1.4	30.4	17.6	1.3		
C.V. (%)	11.6		28.2	29.4	11.2	4.3	28.5		
L.S.D. (5%)	4.0		1.5	0.3	2.1	0.6	0.3		

123.6 Days After Planting

UNIFORM TEST 0, 2017

2016-2017 2-YEAR MEAN

No. of Tests Strain	Yield 11 bu/a	Rank 11 No.	Maturity 13 Date	Lodging 12 Score	Plant Height 12 In.	Seed Size 13 g/100	Seed Quality 12 Score	Composition	
								Protein 13 %	Oil 13 %
Sheyenne (0)	61.6	3	9/19	1.4	33	16.8	1.7	35.0	17.8
MN0095 (E)	47.2	12	-7.1	1.5	28	13.6	1.5	35.2	18.2
MN1410 (I)	64.2	1	7.5	1.5	35	18.1	1.7	36.0	18.1
M07-260028	50.5	11	-3.5	1.4	29	16.7	1.6	36.4	17.1
M08-359053	45.7	13	1.5	1.7	32	16.3	2.0	35.5	17.9
M08-362045	58.7	5	3.2	1.5	32	15.7	1.7	35.4	18.1
M09-251081	52.9	10	4.2	1.5	33	16.8	1.6	35.8	18.5
M09-269045	55.6	7	2.1	1.4	32	15.3	1.5	35.1	17.9
M09-305144	54.6	8	2.9	1.5	32	17.0	1.7	33.0	19.2
ND10-2763	58.1	6	-2.8	1.4	30	14.9	1.7	35.1	18.1
ND10-3067	61.9	2	0.1	1.4	33	16.7	1.7	34.5	18.1
ND10-3464	53.0	9	-2.4	1.4	29	15.6	1.8	36.4	17.5
ND12-19542	60.7	4	1.5	1.4	33	18.2	1.5	35.3	18.0

121.8 Days After Planting

2015-2017 3-YEAR MEAN

No. of Tests Strain	20	20	22	21	20	21	18	18	18
Sheyenne (0)	58.6	3	9/19	1.4	32	16.6	1.6	35.5	18.5
MN0095 (E)	46.2	8	-7.0	1.5	27	13.5	1.4	35.9	18.9
MN1410 (I)	61.8	1	7.4	1.5	34	17.9	1.5	36.5	18.7
M07-260028	50.6	6	-3.9	1.3	28	16.7	1.5	37.1	17.8
M08-359053	50.2	7	0.4	1.7	33	16.6	2.0	35.9	18.3
ND10-2763	55.2	4	-3.1	1.3	37	15.3	1.6	35.6	18.7
ND10-3067	59.3	2	-0.3	1.4	32	16.3	1.6	35.0	18.8
ND10-3464	52.4	5	-2.5	1.4	28	15.4	1.6	37.1	18.2

120.4 Days After Planting

UNIFORM TEST 0, 2017

YIELD (bu/a)

Strain	Mean 5 Tests	Crookston* MN	Moorhead* MN	Casselton ND
Sheyenne (O)	63.8	48.2	50.2	59.8
MN0095 (E)	47.3	37.7	45.0	55.5
MN0404CN (SCN)	52.6	36.0	48.2	54.5
MN1410 (I)	63.3	24.7	49.8	61.5
M07-260028	49.2	39.8	44.8	51.1
M08-359053	36.0	14.8	42.6	34.0
M08-362045	58.9	39.1	41.1	61.8
M09-251081	46.8	27.5	45.1	50.2
M09-269045	51.8	35.7	44.0	56.0
M09-305144	53.9	28.2	45.1	55.3
M10-186021	60.7	37.7	40.3	52.6
M11-120121	51.5	25.1	37.8	47.1
M11-131044	62.0	16.8	28.5	57.4
M11-244115	54.3	35.7	45.3	53.3
M11-244139	60.4	31.1	46.3	55.3
M11-245026	57.3	34.6	36.9	55.8
M11-271064	50.5	42.5	43.5	51.8
M11-276036	60.2	37.2	43.4	56.9
M11-278003	50.6	38.0	40.3	50.0
M11-279046	55.2	38.4	42.6	53.9
M11-298308	59.5	30.2	44.7	54.1
M11-337015	61.6	36.5	44.4	61.8
M11-377115	55.9	28.2	40.9	56.9
MBC11-424-1-25	54.0	37.2	39.2	54.4
MBC11-424-1-48	56.0	41.7	39.6	59.0
MBC11-425-5-002	59.2	41.5	40.1	55.6
MBC11-425-5-010	55.1	37.7	51.6	57.4
ND10-2763	59.5	43.8	53.5	59.2
ND10-3067	66.8	48.0	51.3	62.1
ND10-3464	54.2	43.3	42.1	56.0
ND12-19542	65.1	45.4	47.6	62.0
ND13-4508	65.5	45.0	50.5	63.7
ND13-7564	61.3	33.1	53.7	64.7
ND13-7810	61.7	41.3	62.0	58.9
ND13-8691	63.1	43.3	42.5	56.7
ND13-8892	68.0	46.4	48.9	59.3
ND13-8894	69.0	44.7	44.5	66.1
ND13-9073	62.2	43.0	52.0	63.0
ND14-2373	62.2	42.8	43.4	54.1
ND14-2661	55.9	45.2	53.3	52.4
ND14-2671	63.2	44.6	38.7	66.5
ND14-2677	55.5	37.6	42.8	59.1
OAC 15-06C	61.3	40.8	42.7	56.7
OAC 15-11C	59.6	36.4	44.2	55.0
OAC 15-13C	60.8	44.3	51.0	58.4
OAC 15-15C	60.3	40.9	43.1	57.1
Location Mean		37.6	45.0	56.6
C.V. (%)		15.3	15.6	9.4
L.S.D. (5%)		9.5	11.8	8.5
Row Sp. (In.)		12	10	30
Rows/Plot		8	8	4
Reps		3	3	3

*Data not included in the mean.

UNIFORM TEST 0, 2017

YIELD (bu/a)

Strain	Elora ONT	ORDC-CEF ONT	Woodstock ONT	St Mathieu de Beloeil QUE
Sheyenne (O)	47.2	59.9	66.8	85.5
MN0095 (E)	35.6		33.5	64.4
MN0404CN (SCN)	39.0	50.9	40.4	78.0
MN1410 (I)	36.7	60.5	55.9	101.9
M07-260028	34.2		42.3	69.3
M08-359053	27.8	31.2	31.1	56.0
M08-362045	44.2	51.0	52.6	84.8
M09-251081	32.6	44.1	39.3	67.9
M09-269045	39.7	54.8	40.4	68.0
M09-305144	35.3	47.1	54.9	76.7
M10-186021	47.8	50.5	67.3	85.2
M11-120121	36.0	48.5	47.1	78.8
M11-131044	44.4	60.8	58.4	88.9
M11-244115	45.7	52.2	44.9	75.4
M11-244139	43.9	55.7	58.2	88.8
M11-245026	45.2	49.3	54.5	81.7
M11-271064	33.7	50.8	39.0	77.1
M11-276036	45.4	47.7	51.5	99.7
M11-278003	38.6	49.0	33.8	81.8
M11-279046	45.9	53.0	49.7	73.3
M11-298308	45.2	55.0	59.4	83.8
M11-337015	45.1	56.6	58.8	85.5
M11-377115	37.8		48.9	79.9
MBC11-424-1-25	39.2	49.9	43.8	82.7
MBC11-424-1-48	38.6	53.8	47.4	81.3
MBC11-425-5-002	36.3	55.0	63.0	86.1
MBC11-425-5-010	39.8	50.5	43.4	84.2
ND10-2763	43.8	55.0	55.6	83.8
ND10-3067	48.8	61.7	65.6	96.0
ND10-3464	39.4	49.3	44.6	81.6
ND12-19542	48.7	61.4	61.3	92.1
ND13-4508	46.4	60.8	64.9	91.7
ND13-7564	46.5	58.4	49.7	87.3
ND13-7810	43.6	59.3	56.0	90.7
ND13-8691	44.8	60.9	58.4	94.9
ND13-8892	49.7	64.2	68.5	98.2
ND13-8894	49.7	58.9	72.7	97.8
ND13-9073	42.5	61.2	59.3	85.0
ND14-2373	45.3	57.8	63.9	89.9
ND14-2661	43.4	50.7	53.3	79.6
ND14-2671	50.1	57.1	57.3	84.9
ND14-2677	39.0	61.7	44.4	73.1
OAC 15-06C	49.8	58.0	61.6	80.4
OAC 15-11C	49.1	56.7	52.5	84.9
OAC 15-13C	51.6	56.0	52.8	85.1
OAC 15-15C	50.5		47.4	86.2
Location Mean	42.7	54.5	52.5	83.3
C.V. (%)	6.6	6.2	10.0	8.4
L.S.D. (5%)	4.5	4.6	8.4	9.4
Row Sp. (In.)	14	17.7	14	7
Rows/Plot	4	4	4	5
Reps	3	3	3	3

UNIFORM TEST 0, 2017

YIELD RANK

Strain	Yield Rank	Crookston MN	Moorhead MN	Casselton ND
Sheyenne (O)	6	1	10	11
MN0095 (E)	44	25	19	29
MN0404CN (SCN)	38	33	13	33
MN1410 (I)	7	44	11	10
M07-260028	43	21	20	42
M08-359053	46	46	33	46
M08-362045	26	22	36	8
M09-251081	45	42	17	43
M09-269045	39	34	25	25
M09-305144	37	40	18	30
M10-186021	18	27	39	39
M11-120121	40	43	44	45
M11-131044	12	45	46	18
M11-244115	34	35	16	38
M11-244139	19	38	15	30
M11-245026	27	36	45	27
M11-271064	42	15	26	41
M11-276036	21	29	27	21
M11-278003	41	24	38	44
M11-279046	32	23	32	37
M11-298308	23	39	21	35
M11-337015	14	31	23	8
M11-377115	29	41	37	21
MBC11-424-1-25	36	30	42	34
MBC11-424-1-48	28	16	41	15
MBC11-425-5-002	25	17	40	28
MBC11-425-5-010	33	26	6	18
ND10-2763	23	10	3	13
ND10-3067	3	2	7	6
ND10-3464	35	11	35	25
ND12-19542	5	4	14	7
ND13-4508	4	6	9	4
ND13-7564	15	37	2	3
ND13-7810	13	18	1	16
ND13-8691	9	12	34	23
ND13-8892	2	3	12	12
ND13-8894	1	7	22	2
ND13-9073	10	13	5	5
ND14-2373	10	14	28	35
ND14-2661	29	5	4	40
ND14-2671	8	8	43	1
ND14-2677	31	28	30	14
OAC 15-06C	15	20	31	23
OAC 15-11C	22	32	24	32
OAC 15-13C	17	9	8	17
OAC 15-15C	20	19	29	20

UNIFORM TEST 0, 2017

YIELD RANK

Strain	Elora ONT	ORDC-CEF ONT	Woodstock ONT	St Mathieu de Beloeil QUE
Sheyenne (O)	11		4	17
MN0095 (E)	41		45	45
MN0404CN (SCN)	33		40	36
MN1410 (I)	38		19	1
M07-260028	43		39	42
M08-359053	46		46	46
M08-362045	23		25	23
M09-251081	45		42	44
M09-269045	30		40	43
M09-305144	42		21	38
M10-186021	10		3	18
M11-120121	40		33	35
M11-131044	22		14	11
M11-244115	15		34	39
M11-244139	24		16	12
M11-245026	18		22	29
M11-271064	44		43	37
M11-276036	16		27	2
M11-278003	35		44	28
M11-279046	14		28	40
M11-298308	18		11	26
M11-337015	20		13	16
M11-377115	37		30	33
MBC11-424-1-25	32		37	27
MBC11-424-1-48	35		31	31
MBC11-425-5-002	39		8	15
MBC11-425-5-010	29		38	24
ND10-2763	25		20	25
ND10-3067	8		5	5
ND10-3464	31		35	30
ND12-19542	9		10	7
ND13-4508	13		6	8
ND13-7564	12		28	13
ND13-7810	26		18	9
ND13-8691	21		14	6
ND13-8892	5		2	3
ND13-8894	5		1	4
ND13-9073	28		12	20
ND14-2373	17		7	10
ND14-2661	27		23	34
ND14-2671	3		17	21
ND14-2677	33		36	41
OAC 15-06C	4		9	32
OAC 15-11C	7		26	22
OAC 15-13C	1		24	19
OAC 15-15C	2		31	14

UNIFORM TEST 0, 2017

MATURITY (date)

Strain	Mean 7 Tests	Crookston MN	Moorhead MN	Casselton ND
Sheyenne (O)	9/22	9/21	9/21	9/19
MN0095 (E)	-6	-12	-3	-6
MN0404CN (SCN)	-4	-7	-0	-6
MN1410 (I)	7		9	6
M07-260028	-1	1	1	-5
M08-359053	6	11	14	0
M08-362045	3	4	7	2
M09-251081	5	12	7	4
M09-269045	4	7	8	1
M09-305144	3	6	7	0
M10-186021	8	4	3	10
M11-120121	8		9	6
M11-131044	4	9	9	2
M11-244115	2	4	4	-3
M11-244139	1	5	5	-1
M11-245026	1	2	1	0
M11-271064	-4	-5	-1	-5
M11-276036	6	11	8	4
M11-278003	-4	-2	-2	-7
M11-279046	-0	4	-0	-6
M11-298308	3		5	2
M11-337015	3	7	4	3
M11-377115	0	3	1	-3
MBC11-424-1-25	1	4	2	-1
MBC11-424-1-48	1	2	4	0
MBC11-425-5-002	5	9	6	2
MBC11-425-5-010	1	6	1	-4
ND10-2763	-3	-3	-1	-5
ND10-3067	-0	1	-0	0
ND10-3464	-2	-4	-2	-3
ND12-19542	2	2	3	0
ND13-4508	-1	1	-1	-2
ND13-7564	3	10	5	5
ND13-7810	-0	3	4	-4
ND13-8691	3	5	1	1
ND13-8892	2	6	5	-2
ND13-8894	4	8	3	2
ND13-9073	1	7	0	-2
ND14-2373	3	4	4	-2
ND14-2661	-3	-7	-0	-5
ND14-2671	3	7	2	1
ND14-2677	2	5	3	1
OAC 15-06C	-1	5	-1	-3
OAC 15-11C	-2	3	-1	-4
OAC 15-13C	-2	0		-4
OAC 15-15C	1	10	2	-2
Date Planted	5/21	5/12	5/19	5/5
Days to Mature	124	132	125	137

UNIFORM TEST 0, 2017

MATURITY (date)

Strain	Elora ONT	ORDC-CEF ONT	Woodstock ONT	St Mathieu de Beloeil QUE
Sheyenne (O)	9/23	9/26	9/23	9/21
MN0095 (E)	0	-9	-5	-6
MN0404CN (SCN)	0	-6	-4	-6
MN1410 (I)	8	4	9	5
M07-260028	0	-1	-1	0
M08-359053	9	-3	9	3
M08-362045	7	0	2	2
M09-251081	7	1	3	4
M09-269045	9	-1	1	1
M09-305144	4	0	1	2
M10-186021	17	5	12	6
M11-120121	15	3	7	5
M11-131044	5	-0	3	-1
M11-244115	3	2	5	-1
M11-244139	2	0	-1	-1
M11-245026	3	-4	5	0
M11-271064	-2	-7	-2	-5
M11-276036	11	2	6	2
M11-278003	-2	-5	-2	-5
M11-279046	2	-1	-1	-1
M11-298308	5	3	5	1
M11-337015	1	1	5	0
M11-377115	1	-1	1	-2
MBC11-424-1-25	4	-3	3	-1
MBC11-424-1-48	1	-3	1	0
MBC11-425-5-002	5	2	6	3
MBC11-425-5-010	6	-3	3	-1
ND10-2763	0	-6	-3	-3
ND10-3067	0	0	0	-1
ND10-3464	4	-4	-1	-5
ND12-19542	4	0	6	0
ND13-4508	-2	0	-1	-2
ND13-7564	2	0	-1	2
ND13-7810	-1	-1	0	-2
ND13-8691	4	-0	5	2
ND13-8892	3	-0	2	1
ND13-8894	5	3	4	3
ND13-9073	0	-0	-1	1
ND14-2373	4	2	4	2
ND14-2661	0	-7	0	-5
ND14-2671	5	1	3	2
ND14-2677	3	-1	2	0
OAC 15-06C	0	-5	0	-1
OAC 15-11C	0	-5	-1	-3
OAC 15-13C	1	-6	0	-1
OAC 15-15C	0	-2	0	0
Date Planted	6/2	5/20	6/1	5/29
Days to Mature	113	129	114	115

UNIFORM TEST 0, 2017

LODGING (score)

Strain	Mean 7 Tests	Crookston MN	Moorhead MN	Casselton ND
Sheyenne (O)	1.4	1.0	1.0	1.0
MN0095 (E)	1.2	1.0	1.0	1.0
MN0404CN (SCN)	1.5	1.0	1.0	1.0
MN1410 (I)	1.3	1.0	1.0	1.0
M07-260028	1.2	1.0	1.0	1.0
M08-359053	1.5	1.0	1.0	1.0
M08-362045	1.4	1.0	1.0	1.0
M09-251081	1.4	1.0	1.0	1.7
M09-269045	1.2	1.0	1.0	1.0
M09-305144	1.2	1.0	1.0	1.0
M10-186021	1.4	1.0	1.0	1.0
M11-120121	1.3	1.0	1.0	1.0
M11-131044	1.3	1.0	1.0	1.0
M11-244115	1.4	1.0	1.0	1.0
M11-244139	1.5	1.0	1.0	1.0
M11-245026	1.4	1.0	1.0	1.0
M11-271064	1.1	1.0	1.0	1.0
M11-276036	1.3	1.0	1.0	1.0
M11-278003	1.2	1.0	1.0	1.0
M11-279046	1.2	1.0	1.0	1.0
M11-298308	1.4	1.0	1.0	1.0
M11-337015	1.3	1.0	1.0	1.0
M11-377115	1.4	1.0	1.0	1.0
MBC11-424-1-25	1.3	1.0	1.0	1.0
MBC11-424-1-48	1.3	1.0	1.0	1.0
MBC11-425-5-002	1.1	1.0	1.0	1.0
MBC11-425-5-010	1.5	1.0	1.0	1.0
ND10-2763	1.3	1.0	1.0	1.0
ND10-3067	1.3	1.0	1.0	1.0
ND10-3464	1.3	1.0	1.0	1.0
ND12-19542	1.3	1.0	1.0	1.0
ND13-4508	1.2	1.0	1.0	1.0
ND13-7564	1.3	1.0	1.0	1.0
ND13-7810	1.4	1.0	1.0	1.0
ND13-8691	1.2	1.0	1.0	1.0
ND13-8892	1.3	1.0	1.0	1.0
ND13-8894	1.5	1.0	1.0	1.0
ND13-9073	1.1	1.0	1.0	1.0
ND14-2373	1.5	1.0	1.0	1.0
ND14-2661	1.2	1.0	1.0	1.0
ND14-2671	1.3	1.0	1.0	1.0
ND14-2677	1.1	1.0	1.0	1.0
OAC 15-06C	1.0	1.0	1.0	1.0
OAC 15-11C	1.0	1.0	1.0	1.0
OAC 15-13C	1.1	1.0	1.0	1.0
OAC 15-15C	1.1	1.0	1.0	1.0

UNIFORM TEST 0, 2017

LODGING (score)

Strain	Elora ONT	ORDC-CEF ONT	Woodstock ONT	St Mathieu de Beloeil QUE
Sheyenne (O)	1.1	2.3	1.1	2.0
MN0095 (E)	1.0	2.0	1.2	1.5
MN0404CN (SCN)	1.2	2.7	1.5	2.0
MN1410 (I)	1.0	2.0	1.2	2.0
M07-260028	1.0	1.7	1.0	2.0
M08-359053	1.0	2.0	1.2	3.0
M08-362045	1.0	2.7	1.4	2.0
M09-251081	1.0	2.0	1.2	2.0
M09-269045	1.0	1.3	1.0	2.0
M09-305144	1.0	1.3	1.1	2.0
M10-186021	1.2	2.7	1.1	2.0
M11-120121	1.0	1.7	1.0	2.5
M11-131044	1.0	2.0	1.2	2.0
M11-244115	1.1	2.3	1.7	2.0
M11-244139	1.0	3.0	1.5	2.0
M11-245026	1.2	2.3	1.1	2.0
M11-271064	1.0	1.3	1.2	1.0
M11-276036	1.0	2.3	1.0	2.0
M11-278003	1.0	2.0	1.2	1.0
M11-279046	1.0	1.7	1.0	2.0
M11-298308	1.0	2.7	1.2	2.0
M11-337015	1.1	1.7	1.0	2.0
M11-377115	1.0	2.3	1.5	2.0
MBC11-424-1-25	1.0	1.7	1.1	2.0
MBC11-424-1-48	1.1	1.7	1.0	2.0
MBC11-425-5-002	1.0	1.7	1.0	1.0
MBC11-425-5-010	1.0	3.7	1.3	1.5
ND10-2763	1.0	2.0	1.1	2.0
ND10-3067	1.0	2.3	1.0	2.0
ND10-3464	1.0	2.3	1.0	1.5
ND12-19542	1.0	2.3	1.0	2.0
ND13-4508	1.0	2.0	1.0	1.5
ND13-7564	1.0	2.3	1.1	2.0
ND13-7810	1.0	3.0	1.1	2.0
ND13-8691	1.0	2.0	1.1	1.5
ND13-8892	1.0	2.0	1.0	2.0
ND13-8894	1.0	3.0	1.3	2.0
ND13-9073	1.0	1.3	1.1	1.5
ND14-2373	1.0	3.0	1.4	2.0
ND14-2661	1.0	2.0	1.1	1.5
ND14-2671	1.0	2.3	1.1	2.0
ND14-2677	1.0	2.0	1.0	1.0
OAC 15-06C	1.0	1.3	1.0	1.0
OAC 15-11C	1.1	1.0	1.1	1.0
OAC 15-13C	1.0	1.0	1.0	2.0
OAC 15-15C	1.0	1.3	1.5	1.0

UNIFORM TEST 0, 2017

PLANT HEIGHT (inches)

Strain	Mean 7 Tests	Crookston MN	Moorhead MN	Casselton ND
Sheyenne (O)	32	28	41	33
MN0095 (E)	26	18	34	28
MN0404CN (SCN)	30	23	40	32
MN1410 (I)	34	22	43	34
M07-260028	28	21	35	30
M08-359053	29	16	39	35
M08-362045	32	27	44	35
M09-251081	31	22	40	36
M09-269045	31	24	40	34
M09-305144	30	22	40	31
M10-186021	30	21	34	34
M11-120121	31	24	35	33
M11-131044	33	22	36	37
M11-244115	35	31	43	37
M11-244139	35	27	41	37
M11-245026	33	26	39	37
M11-271064	28	27	36	30
M11-276036	32	27	41	25
M11-278003	29	25	36	29
M11-279046	31	25	36	32
M11-298308	33	28	38	33
M11-337015	32	26	38	34
M11-377115	29	21	38	30
MBC11-424-1-25	31	24	39	32
MBC11-424-1-48	31	27	39	33
MBC11-425-5-002	29	24	37	29
MBC11-425-5-010	30	22	39	33
ND10-2763	29	23	38	29
ND10-3067	32	31	39	33
ND10-3464	29	27	36	31
ND12-19542	32	28	40	34
ND13-4508	30	25	37	31
ND13-7564	32	22	42	34
ND13-7810	32	26	42	33
ND13-8691	33	28	42	36
ND13-8892	33	29	42	32
ND13-8894	35	31	41	37
ND13-9073	29	24	36	31
ND14-2373	35	31	43	34
ND14-2661	30	27	38	31
ND14-2671	33	31	39	35
ND14-2677	27	24	34	30
OAC 15-06C	27	23	30	28
OAC 15-11C	27	21	35	26
OAC 15-13C	28	27	36	27
OAC 15-15C	28	18	36	28

UNIFORM TEST 0, 2017

PLANT HEIGHT (inches)

Strain	Elora ONT	ORDC-CEF ONT	Woodstock ONT	St Mathieu de Beloeil QUE
Sheyenne (O)	29	31	32	29
MN0095 (E)	27	24	26	27
MN0404CN (SCN)	29	30	30	28
MN1410 (I)	34	34	34	34
M07-260028	29	27	27	30
M08-359053	32	28	28	28
M08-362045	31	33	30	27
M09-251081	28	30	30	29
M09-269045	31	32	26	27
M09-305144	28	28	32	30
M10-186021	32	29	32	28
M11-120121	32	32	33	28
M11-131044	32	37	35	30
M11-244115	38	35	32	30
M11-244139	30	38	36	33
M11-245026	31	33	36	31
M11-271064	25	28	24	27
M11-276036	33	36	31	28
M11-278003	29	30	24	28
M11-279046	32	31	31	28
M11-298308	32	33	32	33
M11-337015	32	31	33	29
M11-377115	29	27	30	32
MBC11-424-1-25	28	30	30	30
MBC11-424-1-48	30	32	27	27
MBC11-425-5-002	27	29	30	29
MBC11-425-5-010	29	31	25	29
ND10-2763	27	28	26	29
ND10-3067	31	33	32	28
ND10-3464	26	28	28	27
ND12-19542	30	31	29	30
ND13-4508	31	30	29	29
ND13-7564	34	34	29	29
ND13-7810	30	35	31	30
ND13-8691	31	32	34	28
ND13-8892	31	35	33	33
ND13-8894	34	35	36	31
ND13-9073	28	29	27	30
ND14-2373	35	33	34	34
ND14-2661	29	28	30	26
ND14-2671	30	34	29	31
ND14-2677	22	28	25	25
OAC 15-06C	27	26	28	27
OAC 15-11C	31	25	26	24
OAC 15-13C	28	27	27	25
OAC 15-15C	32	27	27	27

UNIFORM TEST 0, 2017

SEED SIZE (g/100)

Strain	Mean 7 Tests	Crookston MN	Moorhead MN	Casselton ND
Sheyenne (O)	16.0	12.1	13.7	15.6
MN0095 (E)	12.8	10.2	11.6	12.7
MN0404CN (SCN)	14.5	11.6	13.0	14.4
MN1410 (I)	16.5	12.9	13.9	14.7
M07-260028	16.0	12.3	14.2	16.1
M08-359053	15.7	12.7	13.1	13.6
M08-362045	15.3	12.0	13.1	16.5
M09-251081	15.7	11.4	13.1	15.2
M09-269045	14.2	10.7	12.2	12.6
M09-305144	16.6	13.3	14.8	15.5
M10-186021	14.4	12.0	11.7	11.4
M11-120121	14.5	11.8	12.3	12.5
M11-131044	15.5	13.5	13.6	14.2
M11-244115	16.2	11.9	14.8	14.9
M11-244139	16.9	12.4	14.5	15.9
M11-245026	14.7	11.5	11.3	13.9
M11-271064	15.1	12.1	13.6	15.6
M11-276036	18.5	14.0	15.2	16.4
M11-278003	17.0	13.7	15.1	16.5
M11-279046	16.8	13.4	14.6	17.0
M11-298308	16.2	13.7	14.0	14.9
M11-337015	17.3	13.6	14.6	15.4
M11-377115	15.9	11.9	13.8	16.3
MBC11-424-1-25	14.4	11.0	12.8	12.7
MBC11-424-1-48	14.4	10.9	12.0	14.1
MBC11-425-5-002	16.1	13.0	13.2	14.3
MBC11-425-5-010	15.3	12.7	13.5	15.1
ND10-2763	13.5	10.7	11.7	13.0
ND10-3067	15.6	12.1	14.1	15.6
ND10-3464	14.8	12.4	12.1	14.1
ND12-19542	16.8	13.2	15.0	17.4
ND13-4508	16.6	13.4	15.2	16.1
ND13-7564	15.6	13.1	13.5	14.8
ND13-7810	13.7	9.5	13.6	14.1
ND13-8691	15.9	12.5	13.5	14.0
ND13-8892	16.0	12.9	14.0	16.2
ND13-8894	17.5	13.8	16.3	15.8
ND13-9073	15.4	11.6	13.4	15.6
ND14-2373	19.1	15.3	16.5	16.9
ND14-2661	15.7	12.0	13.7	15.8
ND14-2671	15.9	13.8	12.6	14.7
ND14-2677	16.2	12.8	14.5	15.3
OAC 15-06C	18.9	14.5	15.6	17.8
OAC 15-11C	18.3	13.8	14.8	20.1
OAC 15-13C	18.8	14.3	15.9	18.2
OAC 15-15C	16.5	14.1	13.0	16.7

UNIFORM TEST 0, 2017

SEED SIZE (g/100)

Strain	Elora ONT	ORDC-CEF ONT	Woodstock ONT	St Mathieu de Beloeil QUE
Sheyenne (O)	16.1	18.2	19.2	17.0
MN0095 (E)	12.1	14.3	15.1	13.7
MN0404CN (SCN)	15.4	15.5	16.8	15.1
MN1410 (I)	15.9	19.5	19.1	19.6
M07-260028	16.8	17.4	17.7	17.4
M08-359053	18.0	17.6	18.0	16.8
M08-362045	15.9	16.7	16.8	16.2
M09-251081	17.1	17.6	18.3	17.4
M09-269045	15.9	16.3	16.7	14.8
M09-305144	17.2	18.6	18.5	18.1
M10-186021	15.8	16.3	17.3	16.5
M11-120121	15.2	16.7	16.5	16.2
M11-131044	15.0	17.4	17.9	16.8
M11-244115	17.6	18.6	17.2	18.1
M11-244139	17.7	19.5	20.3	17.8
M11-245026	16.8	16.3	17.1	16.3
M11-271064	15.4	15.9	17.1	16.2
M11-276036	20.6	20.4	21.7	21.4
M11-278003	16.5	19.2	19.4	18.3
M11-279046	17.2	18.0	18.7	18.5
M11-298308	16.0	18.9	18.5	17.7
M11-337015	18.3	19.8	20.3	19.2
M11-377115	16.5	16.6	19.0	17.5
MBC11-424-1-25	14.4	16.8	16.6	16.5
MBC11-424-1-48	15.0	16.3	16.9	15.3
MBC11-425-5-002	16.6	19.1	18.8	18.0
MBC11-425-5-010	15.0	16.5	16.8	17.2
ND10-2763	14.2	14.8	15.3	14.7
ND10-3067	15.7	17.0	17.5	17.2
ND10-3464	15.0	16.3	17.4	16.3
ND12-19542	16.1	18.3	18.6	19.1
ND13-4508	16.4	19.0	17.9	18.3
ND13-7564	15.3	18.0	17.5	16.9
ND13-7810	13.4	15.5	15.6	14.4
ND13-8691	16.2	18.0	18.7	18.3
ND13-8892	15.5	18.2	17.9	17.1
ND13-8894	16.5	20.8	19.3	19.8
ND13-9073	15.3	17.5	17.7	16.5
ND14-2373	17.8	22.7	23.4	20.9
ND14-2661	15.5	16.7	18.6	17.6
ND14-2671	17.0	18.2	17.5	17.2
ND14-2677	16.7	18.8	17.5	17.8
OAC 15-06C	21.1	20.3	21.8	21.0
OAC 15-11C	17.6	20.1	21.4	20.3
OAC 15-13C	19.8	20.8	21.3	21.6
OAC 15-15C	18.1	17.6	17.7	18.5

UNIFORM TEST 0, 2017

SEED QUALITY (score)

Strain	Mean 7 Tests	Crookston MN	Moorhead MN	Casselton ND
Sheyenne (O)	1.4	2.0	1.0	1.0
MN0095 (E)	1.3	2.0	1.0	1.0
MN0404CN (SCN)	1.4	2.0	2.0	1.0
MN1410 (I)	1.6	3.0	1.0	1.0
M07-260028	1.4	2.0	2.0	1.0
M08-359053	2.1	3.0	2.0	1.0
M08-362045	1.3	1.0	1.0	1.0
M09-251081	1.3	2.0	1.0	1.0
M09-269045	1.6	2.0	2.0	1.0
M09-305144	1.6	3.0	1.0	1.0
M10-186021	1.6	1.0	1.0	1.0
M11-120121	1.5	2.0	1.0	1.0
M11-131044	1.4	2.0	2.0	1.0
M11-244115	1.4	2.0	1.0	1.0
M11-244139	1.4	2.0	1.0	1.0
M11-245026	1.7	2.0	3.0	1.0
M11-271064	1.4	1.0	1.0	2.0
M11-276036	1.5	1.0	2.0	1.0
M11-278003	1.3	1.0	2.0	1.0
M11-279046	1.2	1.0	1.0	1.0
M11-298308	1.8	3.0	2.0	1.0
M11-337015	1.4	1.0	2.0	1.0
M11-377115	1.1	1.0	1.0	1.0
MBC11-424-1-25	1.4	2.0	2.0	1.0
MBC11-424-1-48	1.5	2.0	2.0	1.0
MBC11-425-5-002	1.1	1.0	1.0	1.0
MBC11-425-5-010	1.1	1.0	1.0	1.0
ND10-2763	1.1	1.0	1.0	1.0
ND10-3067	1.2	1.0	1.0	1.0
ND10-3464	1.2	1.0	1.0	1.0
ND12-19542	1.4	1.0	3.0	1.0
ND13-4508	1.2	2.0	1.0	1.0
ND13-7564	1.5	3.0	1.0	1.0
ND13-7810	1.4	1.0	2.0	1.0
ND13-8691	1.3	1.0	2.0	1.0
ND13-8892	1.2	1.0	1.0	1.0
ND13-8894	1.4	2.0	1.0	1.0
ND13-9073	1.5	2.0	2.0	1.0
ND14-2373	1.5	1.0	2.0	1.0
ND14-2661	1.1	1.0	1.0	1.0
ND14-2671	1.8	1.0	2.0	1.0
ND14-2677	1.5	1.0	2.0	1.0
OAC 15-06C	1.5	2.0	1.0	1.0
OAC 15-11C	1.8	2.0	2.0	2.0
OAC 15-13C	1.6	2.0	2.0	1.0
OAC 15-15C	1.4	2.0	1.0	1.0

UNIFORM TEST 0, 2017

SEED QUALITY (score)

Strain	Elora ONT	ORDC-CEF ONT	Woodstock ONT	St Mathieu de Beloeil QUE
Sheyenne (O)	1.5	2.0	1.0	1.3
MN0095 (E)	1.5	1.3	1.0	1.0
MN0404CN (SCN)	1.5	1.0	1.5	1.0
MN1410 (I)	1.0	1.3	3.0	1.0
M07-260028	1.5	1.3	1.0	1.0
M08-359053	2.5	2.7	2.0	1.3
M08-362045	2.0	1.7	1.5	1.0
M09-251081	1.5	1.0	1.5	1.0
M09-269045	2.0	1.7	1.5	1.0
M09-305144	2.0	1.7	1.5	1.0
M10-186021	3.0	3.0	1.5	1.0
M11-120121	2.0	2.0	1.5	1.0
M11-131044	1.5	1.0	1.5	1.0
M11-244115	1.5	1.3	1.5	1.3
M11-244139	1.5	2.0	1.5	1.0
M11-245026	1.5	1.7	1.5	1.0
M11-271064	1.5	1.7	1.5	1.0
M11-276036	1.5	1.7	2.0	1.0
M11-278003	1.5	1.3	1.5	1.0
M11-279046	1.5	1.3	1.5	1.0
M11-298308	2.0	2.0	1.5	1.0
M11-337015	1.5	1.7	1.5	1.0
M11-377115	1.5	1.0	1.5	1.0
MBC11-424-1-25	1.5	1.0	1.5	1.0
MBC11-424-1-48	1.5	1.3	1.5	1.0
MBC11-425-5-002	1.0	1.0	1.5	1.0
MBC11-425-5-010	1.5	1.3	1.0	1.0
ND10-2763	1.5	1.0	1.0	1.0
ND10-3067	1.0	1.7	1.5	1.0
ND10-3464	1.5	1.7	1.5	1.0
ND12-19542	1.5	1.0	1.5	1.0
ND13-4508	1.0	1.3	1.0	1.0
ND13-7564	1.5	1.7	1.5	1.0
ND13-7810	2.0	1.0	1.5	1.0
ND13-8691	1.5	1.3	1.5	1.0
ND13-8892	1.0	2.0	1.5	1.0
ND13-8894	1.5	2.0	1.5	1.0
ND13-9073	1.5	1.3	1.5	1.0
ND14-2373	2.0	1.7	1.5	1.0
ND14-2661	1.0	2.0	1.0	1.0
ND14-2671	2.0	3.0	1.5	2.0
ND14-2677	1.5	2.0	2.0	1.0
OAC 15-06C	1.5	1.7	2.0	1.0
OAC 15-11C	1.5	2.0	2.0	1.0
OAC 15-13C	1.5	2.0	1.5	1.0
OAC 15-15C	1.5	1.7	1.5	1.0

UNIFORM TEST 0, 2017

PROTEIN (%)

Strain	Mean 7 Tests	Crooks- ton MN	Moor- head MN	Casselton ND	Elora* ONT	ORDC-* CEF ONT	Wood-* stock ONT	Saint-Mathieu de-Beloil QUE
Sheyenne (O)	34.5	31.7	32.7	34.5	36.4	34.9	36.6	34.6
MN0095 (E)	35.1	33.5	33.7	34.0	37.3	35.2	36.5	35.3
MN0404CN (SCN)	34.3	33.1	32.5	33.4	36.5	33.9	36.4	34.5
MN1410 (I)	35.0	32.2	35.0	35.5	36.4	34.6	36.6	34.8
M07-260028	36.1	34.7	35.2	35.8	37.9	35.9	37.3	35.9
M08-359053	34.6	33.8	31.8	34.3	36.5	34.9	36.1	34.7
M08-362045	35.1	33.8	34.2	34.1	36.8	35.7	36.7	34.3
M09-251081	35.3	35.6	33.7	34.5	37.8	35.1	35.8	34.7
M09-269045	34.8	34.4	34.5	34.5	36.6	34.2	35.7	33.4
M09-305144	32.8	31.8	32.6	32.1	34.5	32.0	34.5	32.0
M10-186021	33.9	32.8	34.9	34.2	35.9	33.1	34.5	31.9
M11-120121	35.7	33.9	34.2	36.4	38.0	35.4	37.4	34.7
M11-131044	36.7	35.7	34.8	36.0	37.6	38.1	38.4	36.5
M11-244115	35.6	36.0	33.9	34.7	37.4	35.2	36.5	35.4
M11-244139	34.8	34.1	33.0	34.1	36.6	35.1	36.4	34.0
M11-245026	35.3	35.4	33.5	34.1	36.9	34.9	36.8	35.5
M11-271064	35.5	34.9	34.6	34.6	37.9	35.1	37.0	34.4
M11-276036	37.0	35.7	35.0	35.9	38.8	37.0	38.3	38.4
M11-278003	34.8	32.3	33.0	34.7	36.8	35.0	37.1	35.1
M11-279046	36.2	34.0	35.8	35.4	38.1	35.7	37.4	36.9
M11-298308	36.6	36.7	35.1	35.8	38.6	35.9	37.8	36.0
M11-337015	36.3	34.3	35.3	36.6	38.3	36.5	37.5	35.6
M11-377115	34.9	32.2	33.2	33.2	38.1	35.5	36.7	35.2
MBC11-424-1-25	36.4	34.8	36.5	35.3	38.2	35.6	37.6	36.6
MBC11-424-1-48	36.4	34.5	36.9	35.4	38.0	36.2	37.8	36.0
MBC11-425-5-002	35.4	34.4	35.3	35.6	36.5	34.9	36.2	34.9
MBC11-425-5-010	33.9	32.6	29.2	32.6	36.9	34.2	36.9	34.7
ND10-2763	34.6	32.8	34.3	33.8	37.0	33.8	35.3	35.0
ND10-3067	34.2	33.0	32.7	33.6	36.2	34.4	35.5	33.8
ND10-3464	35.8	34.3	34.9	35.4	37.7	35.6	37.1	35.7
ND12-19542	34.7	33.6	33.0	34.5	36.2	35.1	36.2	34.4
ND13-4508	35.0	33.9	34.1	34.1	36.8	35.0	36.3	35.0
ND13-7564	33.7	31.0	33.4	33.6	35.3	33.3	35.8	33.5
ND13-7810	33.7	33.3	32.3	32.0	36.3	33.3	35.2	33.2
ND13-8691	35.4	33.1	35.4	35.3	37.4	34.9	36.5	35.0
ND13-8892	35.2	32.9	34.7	34.4	37.2	35.2	37.0	34.8
ND13-8894	34.9	33.1	34.6	34.4	36.6	35.0	36.0	34.5
ND13-9073	34.1	32.3	34.7	32.9	36.5	33.4	35.1	33.8
ND14-2373	35.9	34.6	34.4	35.5	37.8	35.3	38.0	35.8
ND14-2661	33.7	32.3	32.9	32.3	35.6	33.4	35.5	33.9
ND14-2671	33.7	33.3	32.8	33.1	35.2	33.2	35.1	33.0
ND14-2677	34.1	32.1	33.7	33.5	36.4	34.0	35.4	33.3
OAC 15-06C	34.6	34.5	34.3	33.1	37.4	33.4	35.0	34.2
OAC 15-11C	32.0	31.3	31.5	30.5	34.3	30.6	34.5	31.3
OAC 15-13C	32.4	31.0	31.3	31.3	34.5	31.8	34.9	32.0
OAC 15-15C	33.3	32.3	32.0	31.7	35.8	32.3	35.8	33.1

*Data adjusted to 13% moisture

UNIFORM TEST 0, 2017

OIL (%)

Strain	Mean 7 Tests	Crooks- ton MN	Moor- head MN	Casselton ND	Elora* ONT	ORDC-* CEF ONT	Wood-* stock ONT	Saint-Mathieu de-Beloil QUE
Sheyenne (O)	17.1	18.7	18.1	15.6	16.5	17.5	17.1	16.1
MN0095 (E)	17.7	18.9	18.2	19.1	16.5	17.7	17.6	16.2
MN0404CN (SCN)	18.0	18.8	18.9	18.8	17.3	18.2	17.7	16.7
MN1410 (I)	18.0	19.5	18.4	18.4	16.9	18.5	17.5	16.7
M07-260028	16.4	17.3	16.9	17.0	15.7	16.8	16.4	14.9
M08-359053	17.9	18.2	18.9	18.3	17.2	18.3	17.5	16.6
M08-362045	17.8	18.4	18.3	18.5	17.4	17.7	17.5	16.9
M09-251081	18.0	18.2	18.6	19.3	16.6	18.4	17.7	17.2
M09-269045	17.6	17.8	17.7	18.2	17.3	17.9	17.6	16.6
M09-305144	18.7	19.4	19.0	19.6	18.0	19.2	18.2	17.3
M10-186021	18.1	18.5	18.0	18.5	17.8	18.6	18.3	17.2
M11-120121	17.3	17.7	17.8	17.3	17.3	17.5	17.4	16.1
M11-131044	16.9	17.3	18.2	17.5	16.4	16.7	16.4	15.9
M11-244115	17.4	17.1	17.9	18.9	16.8	17.9	17.2	16.0
M11-244139	17.4	17.5	18.3	18.6	16.8	17.4	17.1	16.3
M11-245026	17.5	17.0	18.2	18.5	17.6	17.7	17.6	16.0
M11-271064	17.9	18.0	18.3	19.2	17.0	18.0	17.7	17.1
M11-276036	17.5	17.9	18.5	18.2	17.1	17.7	17.3	15.7
M11-278003	18.3	18.8	18.6	20.2	17.1	18.7	17.5	17.5
M11-279046	17.0	17.8	17.4	18.5	16.2	17.1	16.6	15.3
M11-298308	17.2	16.7	17.8	18.0	17.0	17.8	17.1	16.1
M11-337015	17.4	18.2	17.9	18.3	16.4	17.7	17.0	16.2
M11-377115	17.6	18.3	18.3	18.9	16.5	17.3	17.5	16.1
MBC11-424-1-25	17.3	18.0	17.4	18.6	16.6	17.6	17.0	15.6
MBC11-424-1-48	17.2	17.9	18.1	18.1	16.7	17.0	16.9	16.1
MBC11-425-5-002	17.4	17.6	17.1	17.8	17.2	18.2	17.7	16.3
MBC11-425-5-010	19.0	20.0	21.6	20.3	17.5	18.7	17.7	17.5
ND10-2763	17.5	18.3	17.6	19.1	16.5	17.8	17.3	16.1
ND10-3067	17.5	17.9	18.2	18.7	16.8	17.6	17.4	16.1
ND10-3464	16.8	18.2	18.1	14.1	16.3	17.7	17.0	16.4
ND12-19542	17.5	18.0	17.9	18.5	16.9	17.5	17.3	16.3
ND13-4508	17.0	17.3	17.2	18.4	16.4	17.1	17.1	15.7
ND13-7564	18.4	19.6	18.8	19.0	17.3	19.0	17.7	17.4
ND13-7810	17.8	17.7	18.5	19.2	17.0	18.0	17.9	16.7
ND13-8691	17.8	18.9	17.8	18.5	17.0	17.9	17.6	16.6
ND13-8892	17.4	18.5	17.6	18.7	16.2	17.3	17.0	16.4
ND13-8894	17.5	18.5	18.0	18.2	17.0	17.7	17.1	16.3
ND13-9073	18.0	19.0	17.8	19.3	16.7	18.6	17.7	17.0
ND14-2373	17.6	18.1	18.5	18.7	16.7	17.9	17.1	16.1
ND14-2661	18.4	18.9	18.7	20.2	17.2	18.6	17.7	17.1
ND14-2671	17.7	18.4	18.0	18.7	16.9	17.9	17.1	16.6
ND14-2677	18.0	18.6	18.7	18.8	17.0	18.1	17.7	16.9
OAC 15-06C	18.0	17.6	18.0	19.9	16.9	18.9	17.7	17.0
OAC 15-11C	18.5	18.8	18.8	20.1	17.7	19.1	17.7	17.3
OAC 15-13C	18.7	19.2	19.2	20.6	17.9	19.2	17.7	17.3
OAC 15-15C	18.7	18.5	19.2	20.3	17.7	19.5	17.8	17.5

*Data adjusted to 13% moisture

UNIFORM TEST I, 2017

Ent.	Strain	Parentage	Seed Source	Previous Testing	Gen. Comp.	Unique Traits	Germ. %	Sd. Wt. g/100
1	MN1410 (I)	Unknown	Lorenz	12	F5		99	16.2
2	IA1022 (SCN)	Dairyland 98822 x A00-711024	Cai	11	F5	SCN	81	15.1
3	Sheyenne (0)	Pioneer 9071 x A96-492041	Helms	10	F4	Rps1-c	97	12.2
4	U11-917032	LD02-4485 x U03-100612	Graef	3	F6	SCN, HR, MR	96	16.4
5	M07-209037	M90-184111 x MN0606CN	Lorenz	1	F5	SCN, PI 88788	89	16.0
6	M09-278026	M90-184111 x E06936	Lorenz	1	F5	SCN, PI 88788	95	13.4
7	M09-285032	MN1701CN x E06936	Lorenz	SCNUI	F5	SCN	95	15.4
8	M09-285149	MN1701CN x E06936	Lorenz	SCNUI	F5	SCN	84	14.9
9	M09-343025	MN1410 x M03-381022	Lorenz	1	F5	Diversity	98	13.0
10	M10-171020	A08-151024 x M04-380030	Lorenz	PTI	F5	YLD	84	13.7
11	M10-254090	M04-217116 x MN2001SP	Lorenz	SCNPI	F5	SCN	93	17.6
12	M11-131015	XY2510 x Sheyenne	Lorenz	PTI	F5	YLD	80	14.6
13	M11-131022	XY2510 x Sheyenne	Lorenz	PTI	F5	YLD	98	17.5
14	M11-132044	XY2510 x MN1410	Lorenz	PTI	F5	YLD	91	16.4
15	MSC09-774089	Sheyenne x PI567516C	Lorenz	SCNUI	F5	SCN	98	18.2
16	MSC10-559061	Sheyenne x PI507471	Lorenz	SCNPI	F5	SCN	98	14.0
17	ORC 3313N	S18-R6 x HD 369	Eskandari	PTI	F5		95	25.5
18	ORC 3713N	Starfield x SC 2307	Eskandari	1	F5	SCN, PI 88788	97	23.1
19	U14-103015	LG07-2249 x LG07-6944	Graef	PTI	F5	Diversity	99	17.4

UNIFORM TEST I, 2017

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	IDC
		Score
		Danvers
MN1410 (I)	WGBSYDbfI	3.5
IA1022 (SCN)	PGTSYYI	3.3
Sheyenne (O)	PGTSYYI	1.5
U11-917032	PTBDYBI	2.5
M07-209037	WGTSYYI	2.5
M09-278026	P+WGTDYYI	3.3
M09-285032	PGTDYYI	3.5
M09-285149	PGTDYYI	2.5
M09-343025	PTBSYLbfI	3.8
M10-171020	PTTIYBI	3.0
M10-254090	PGTDYBfI	4.0
M11-131015	WGTDYYI	1.8
M11-131022	WGTDYYI	2.8
M11-132044	WGTDYYI	4.0
MSC09-774089	P+WGTDYYI	2.5
MSC10-559061	P+WGBDYYI	2.0
ORC 3313N	WGBIYYI	3.5
ORC 3713N	P+WGTDYYI	3.0
U14-103015	PTTDYYI	2.5

UNIFORM TEST I, 2017

REGIONAL SUMMARY

No. of Tests Strain	Yield 13 bu/a	Rank 13 No.	Maturity 12 Date	Lodging 12 Score	Plant Height 12 In.	Seed Size 12 g/100	Seed Quality 10 Score	Composition	
								Protein 9 %	Oil 9 %
MN1410 (I)	56.1	5	9/21	1.4	35	18.1	1.2	35.0	18.6
IA1022 (SCN)	48.9	18	5.7	1.4	30	16.6	1.3	32.7	18.9
Sheyenne (O)	51.5	14	-3.9	1.2	31	17.2	1.6	33.9	18.4
U11-917032	60.7	1	2.6	1.5	31	17.1	1.3	33.3	18.9
M07-209037	48.9	18	0.7	1.4	31	16.3	1.3	34.6	17.6
M09-278026	55.7	7	1.3	1.3	35	15.4	1.3	34.0	18.1
M09-285032	52.8	9	2.3	1.5	35	17.0	1.2	34.0	18.5
M09-285149	52.5	10	3.5	1.3	31	16.4	1.2	34.7	18.2
M09-343025	55.9	6	5.0	1.7	35	15.2	1.3	34.5	18.7
M10-171020	51.9	13	1.3	1.3	31	17.2	1.3	34.7	17.8
M10-254090	49.4	17	2.7	1.6	36	20.6	1.9	36.0	17.7
M11-131015	51.4	15	1.3	1.2	35	17.8	1.2	34.6	17.5
M11-131022	51.2	16	3.6	1.2	34	18.7	1.5	35.8	17.1
M11-132044	53.4	8	2.9	1.3	32	18.9	1.2	34.8	18.0
MSC09-774089	56.5	4	2.3	1.6	36	16.4	1.3	34.9	18.1
MSC10-559061	52.1	12	0.7	1.9	34	14.5	1.3	33.8	18.2
ORC 3313N	52.3	11	3.5	1.3	36	22.8	1.8	35.4	18.1
ORC 3713N	60.7	2	5.3	1.4	38	19.7	1.4	34.1	18.8
U14-103015	59.4	3	3.3	1.3	32	17.0	1.1	35.1	18.7
Mean	52.5		18.2	1.3	33.0	17.6	1.4		
C.V. (%)	13.6		10.7	32.2	8.9	5.7	30.2		
L.S.D. (5%)	3.0		0.9	0.2	1.3	0.6	0.3		

120.1 Days After Planting

UNIFORM TEST I, 2017

2016-2017 2-YEAR MEAN

No. of Tests Strain	Yield 28 bu/a	Rank 28 No.	Maturity 26 Date	Lodging 26 Score	Plant Height 25 In.	Seed Size 25 g/100	Seed Quality 22 Score	Composition	
								Protein 17 %	Oil 17 %
MN1410 (I)	60.3	4	9/20	1.7	36	18.5	1.4	35.8	18.6
IA1022 (SCN)	57.8	7	3.9	1.7	34	17.0	1.3	33.2	19.3
Sheyenne (O)	53.9	8	-3.6	1.4	33	17.3	2.0	34.5	18.7
U11-917032	65.0	2	2.0	1.8	33	17.5	1.4	34.0	19.1
M07-209037	57.9	6	0.6	1.8	34	17.0	1.6	34.4	18.3
M09-278026	60.8	3	0.9	1.8	38	15.7	1.5	34.6	18.3
M09-343025	59.5	5	4.1	2.0	38	15.6	1.4	35.4	18.7
ORC 3713N	65.2	1	3.7	1.6	40	20.1	1.4	34.6	19.1

120.2 Days After Planting

UNIFORM TEST I, 2017

YIELD (bu/a)

Strain	Mean 13 Tests	Kanawha IA	Wanatah IN	West Lafayette IN	East Lansing MI	Saginaw MI	Danvers MN
MN1410 (I)	56.1	43.6	59.5	60.1	43.0	59.0	44.2
IA1022 (SCN)	48.9	45.1	60.4	41.3	42.7	52.2	50.7
Sheyenne (O)	51.5	44.2	51.0	52.8	34.0	52.6	47.4
U11-917032	60.7	52.4	61.6	66.3	42.6	65.8	42.2
M07-209037	48.9	46.2	52.4	66.4	26.6	49.2	50.6
M09-278026	55.7	51.6	61.4	59.0	46.9	62.1	47.3
M09-285032	52.8	44.5	57.3	53.9	37.3	57.9	50.5
M09-285149	52.5	45.3	55.1	50.2	36.9	55.8	53.2
M09-343025	55.9	45.2	55.0	60.8	35.0	56.0	38.2
M10-171020	51.9	47.1	54.6	53.6	32.2	50.3	38.4
M10-254090	49.4	46.8	53.8	42.5	32.7	48.6	47.0
M11-131015	51.4	41.1	60.6	53.4	39.3	54.0	43.0
M11-131022	51.2	50.3	48.9	39.9	43.0	55.4	45.4
M11-132044	53.4	45.3	60.8	49.2	36.5	57.9	42.9
MSC09-774089	56.5	45.7	63.7	58.1	39.3	60.0	49.8
MSC10-559061	52.1	53.4	51.9	55.7	36.3	58.1	45.1
ORC 3313N	52.3	45.0	55.1	50.9	38.2	57.1	48.8
ORC 3713N	60.7	57.5	56.7	59.3	35.1	60.4	40.6
U14-103015	59.4	47.3	58.5	67.5	40.9	61.4	46.6
Location Mean		47.2	56.8	54.8	37.8	56.5	45.9
C.V. (%)		10.4	5.1	10.0	12.0	7.2	14.8
L.S.D. (5%)		12.6	4.0	7.6	11.6	10.0	11.3
Row Sp. (In.)		30	30	30	30	15	30
Rows/Plot		4	4	4	4	6	4
Reps		2	3	3	2	2	3

UNIFORM TEST I, 2017

YIELD (bu/a)

Strain	Rosemount MN	Cotesfield NE	Phillips NE	Ridgetown ONT	St. Pauls ONT	Woodstock ONT	Saint Hyacinthe QUE
MN1410 (I)	55.6	87.0	44.6	38.5	63.7	50.1	80.0
IA1022 (SCN)	37.2	84.4	60.2	29.9	38.8	38.4	54.4
Sheyenne (O)	61.9	72.3	37.9	27.6	60.8	63.0	64.5
U11-917032	62.1	89.1	53.0	37.1	73.4	70.1	73.9
M07-209037	54.6	68.9	39.5	25.7	52.8	48.8	54.6
M09-278026	55.6	84.1	34.2	37.5	60.0	58.6	65.3
M09-285032	52.2	81.3	34.6	38.2	56.3	55.9	66.6
M09-285149	55.9	84.9	44.5	37.0	53.3	45.9	64.5
M09-343025	57.9	86.8	58.9	38.7	61.0	58.4	75.5
M10-171020	61.8	82.9	49.9	30.5	58.6	53.9	61.0
M10-254090	49.7	72.8	47.5	31.7	47.4	59.5	61.6
M11-131015	63.3	77.6	46.3	26.2	53.8	53.7	56.0
M11-131022	46.8	72.7	44.6	37.2	59.3	58.7	63.0
M11-132044	52.9	80.1	44.3	29.4	57.6	73.8	63.9
MSC09-774089	57.7	81.9	42.2	41.7	65.3	60.6	68.2
MSC10-559061	60.1	78.6	48.8	35.7	60.9	39.4	53.7
ORC 3313N	48.2	76.8	32.3	46.2	62.5	56.2	63.4
ORC 3713N	59.9	97.5	67.0	47.2	67.0	73.5	67.5
U14-103015	54.6	82.2	64.7	40.1	72.3	60.5	76.2
Location Mean	55.2	81.2	47.1	35.6	59.2	56.8	64.9
C.V. (%)	11.5	5.1	9.8	12.4	8.3	13.7	4.9
L.S.D. (5%)	10.5	8.7	9.7	7.5	8.2	16.3	4.8
Row Sp. (In.)	30	30	30	17	14	14	15
Rows/Plot	4	4	4	5	4	4	4
Reps	3	2	2	3	3	2	3

UNIFORM TEST I, 2017

YIELD RANK

Strain	Yield Rank	Kanawha IA	Wanatah IN	West Lafayette IN	East Lansing MI	Saginaw MI	Danvers MN
MN1410 (I)	5	18	7	5	3	6	13
IA1022 (SCN)	18	14	6	18	4	16	2
Sheyenne (O)	14	17	18	13	16	15	7
U11-917032	1	3	2	3	5	1	16
M07-209037	18	9	16	2	19	18	3
M09-278026	7	4	3	7	1	2	8
M09-285032	9	16	9	10	10	8	4
M09-285149	10	12	11	15	11	12	1
M09-343025	6	13	13	4	15	11	19
M10-171020	13	7	14	11	18	17	18
M10-254090	17	8	15	17	17	19	9
M11-131015	15	19	5	12	7	14	14
M11-131022	16	5	19	19	2	13	11
M11-132044	8	11	4	16	12	9	15
MSC09-774089	4	10	1	8	8	5	5
MSC10-559061	12	2	17	9	13	7	12
ORC 3313N	11	15	11	14	9	10	6
ORC 3713N	2	1	10	6	14	4	17
U14-103015	3	6	8	1	6	3	10

UNIFORM TEST I, 2017

MATURITY (date)

Strain	Mean 12 Tests	Kanawha IA	Wanatah IN	West Lafayette IN	East Lansing MI	Saginaw MI	Danvers MN
MN1410 (I)	9/21	9/18	9/15	9/18	9/17	9/13	10/1
IA1022 (SCN)	6	6	5	5	6	7	5
Sheyenne (O)	-4	-7	0	-3	-1	-1	-3
U11-917032	3	7	7	3	4	3	2
M07-209037	1	3	7	3	1	1	-1
M09-278026	1	7	8	1	3	2	-0
M09-285032	2	6	5	3	6	3	2
M09-285149	4	7	7	5	5	5	3
M09-343025	5	9	8	4	7	8	2
M10-171020	1	3	6	3	3	2	0
M10-254090	3	7	9	2	6	2	3
M11-131015	1	3	5	1	7	2	-1
M11-131022	4	5	9	4	7	5	2
M11-132044	3	4	6	2	5	4	3
MSC09-774089	2	7	8	1	5	3	1
MSC10-559061	1	7	3	0	4	2	1
ORC 3313N	4	7	8	3	5	5	4
ORC 3713N	5	7	6	5	6	6	6
U14-103015	3	6	6	4	6	4	1
Date Planted	5/24	5/12	5/30	6/2	6/2	5/17	6/2
Days to Mature	120	129	108	108	107	119	121

UNIFORM TEST I, 2017

YIELD RANK

Strain	Rosemount MN	Cotesfield NE	Phillips NE	Ridgetown ONT	St. Pauls ONT	Woodstock ONT	Saint Hyacinthe QUE
MN1410 (I)	11	3	10	6	5	15	1
IA1022 (SCN)	19	6	3	15	19	19	18
Sheyenne (O)	3	18	16	17	9	4	9
U11-917032	2	2	5	10	1	3	4
M07-209037	13	19	15	19	17	16	17
M09-278026	10	7	18	8	10	9	8
M09-285032	15	11	17	7	14	12	7
M09-285149	9	5	12	11	16	17	9
M09-343025	7	4	4	5	7	10	3
M10-171020	4	8	6	14	12	13	15
M10-254090	16	16	8	13	18	7	14
M11-131015	1	14	9	18	15	14	16
M11-131022	18	17	11	9	11	8	13
M11-132044	14	12	13	16	13	1	11
MSC09-774089	8	10	14	3	4	5	5
MSC10-559061	5	13	7	12	8	18	19
ORC 3313N	17	15	19	2	6	11	12
ORC 3713N	6	1	1	1	3	2	6
U14-103015	12	9	2	4	2	6	2

UNIFORM TEST I, 2017

MATURITY (date)

Strain	Rosemount MN	Cotesfield NE	Phillips NE	Ridgetown ONT	St. Pauls ONT	Woodstock ONT	Saint Hyacinthe QUE
MN1410 (I)	9/22		9/8	9/22	10/3	9/30	9/26
IA1022 (SCN)	6		5	6	7	9	2
Sheyenne (O)	-4		-7	-6	-6	-3	-6
U11-917032	1		-1	1	2	3	-1
M07-209037	-2		-5	2	-2	3	-1
M09-278026	1		-5	1	0	2	-3
M09-285032	3		-4	2	0	4	-1
M09-285149	3		-3	3	2	5	1
M09-343025	3		3	7	1	5	3
M10-171020	0		-3	2	0	1	-1
M10-254090	2		-3	3	0	3	-1
M11-131015	-1		-3	-0	2	1	0
M11-131022	3		-1	3	4	2	1
M11-132044	2		-2	2	4	4	2
MSC09-774089	1		-4	3	1	4	-1
MSC10-559061	-0		-2	0	-4	-1	-2
ORC 3313N	1		-5	4	2	5	4
ORC 3713N	4		-2	6	5	9	
U14-103015	2		-2	7	3	4	-1
Date Planted	5/10		5/15	6/6	5/20	6/1	5/16
Days to Mature	135		116	108	136	121	133

UNIFORM TEST I, 2017

LODGING (score)

Strain	Mean 12 Tests	Kanawha IA	Wanatah IN	West Lafayette IN	East Lansing MI	Saginaw MI	Danvers MN
MN1410 (I)	1.4	2.3	1.3	1.2	1.0	1.0	1.0
IA1022 (SCN)	1.4	2.0	1.0	1.0	1.0	1.0	1.0
Sheyenne (O)	1.2	2.0	1.0	1.2	1.5	1.0	1.0
U11-917032	1.5	2.0	1.0	1.3	1.0	1.0	1.0
M07-209037	1.4	2.0	1.5	1.0	1.0	1.0	1.0
M09-278026	1.3	2.0	1.0	1.0	1.0	1.0	1.0
M09-285032	1.5	2.3	1.5	1.2	1.0	1.0	1.0
M09-285149	1.3	2.0	1.3	1.0	1.0	1.0	1.0
M09-343025	1.7	2.3	2.0	1.0	1.0	1.0	1.7
M10-171020	1.3	1.8	1.5	1.0	1.0	1.0	1.0
M10-254090	1.6	2.3	1.2	1.2	1.5	1.0	1.0
M11-131015	1.2	1.8	1.2	1.2	1.0	1.0	1.0
M11-131022	1.2	2.0	1.0	1.0	1.0	1.0	1.0
M11-132044	1.3	2.0	1.0	1.0	1.0	1.0	1.0
MSC09-774089	1.6	2.0	1.3	1.3	1.0	1.0	1.0
MSC10-559061	1.9	2.3	1.5	1.5	1.0	1.0	1.0
ORC 3313N	1.3	2.0	1.2	1.0	1.0	1.0	1.0
ORC 3713N	1.4	2.3	1.2	1.2	1.0	1.0	1.0
U14-103015	1.3	2.3	1.0	1.0	1.0	1.0	1.0

UNIFORM TEST I, 2017

PLANT HEIGHT (inches)

Strain	Mean 12 Tests	Kanawha IA	Wanatah IN	West Lafayette IN	East Lansing MI	Saginaw MI	Danvers MN
MN1410 (I)	35	34	33	28	33	33	36
IA1022 (SCN)	30	30	26	21	33	32	33
Sheyenne (O)	31	29	30	29	28	29	33
U11-917032	31	30	25	27	29	30	29
M07-209037	31	29	26	25	26	27	32
M09-278026	35	34	36	29	35	34	38
M09-285032	35	35	34	28	34	32	37
M09-285149	31	31	28	23	27	31	35
M09-343025	35	36	33	29	38	34	31
M10-171020	31	29	29	26	29	27	30
M10-254090	36	37	27	33	33	34	37
M11-131015	35	33	34	29	38	31	40
M11-131022	34	36	29	27	34	34	34
M11-132044	32	30	31	28	31	28	33
MSC09-774089	36	34	36	29	33	34	37
MSC10-559061	34	34	32	32	30	31	37
ORC 3313N	36	33	34	28	36	35	39
ORC 3713N	38	40	33	31	37	36	44
U14-103015	32	33	28	28	30	29	34

UNIFORM TEST I, 2017

LODGING (score)

Strain	Rosemount MN	Cotesfield NE	Phillips NE	Ridgetown ONT	St. Pauls ONT	Woodstock ONT	Saint Hyacinthe QUE
MN1410 (I)	2.3		1.0	1.0	1.3	1.0	3.0
IA1022 (SCN)	1.0		2.0	1.0	1.0	1.0	4.0
Sheyenne (O)	1.0		1.0	1.0	1.2	1.3	1.0
U11-917032	1.7		1.5	1.0	1.0	1.0	4.0
M07-209037	1.0		1.5	1.0	1.3	1.0	3.0
M09-278026	1.7		2.0	1.0	1.0	1.0	2.0
M09-285032	1.7		2.0	1.0	1.3	1.0	3.0
M09-285149	1.0		1.0	1.0	1.0	1.0	3.0
M09-343025	3.0		2.0	1.0	1.3	1.0	3.0
M10-171020	1.0		1.0	1.0	1.2	1.3	3.0
M10-254090	3.0		2.0	1.0	1.5	1.5	2.0
M11-131015	2.3		1.0	1.0	1.0	1.3	1.0
M11-131022	1.0		1.0	1.0	1.0	1.0	2.0
M11-132044	1.0		1.0	1.0	1.0	1.0	3.0
MSC09-774089	3.3		2.0	1.0	1.2	1.3	3.0
MSC10-559061	2.7		3.0	1.0	1.3	1.0	5.0
ORC 3313N	2.3		1.0	1.0	1.3	1.3	2.0
ORC 3713N	2.7		1.0	1.0	1.0	1.0	2.0
U14-103015	1.0		1.0	1.0	1.0	1.3	3.0

UNIFORM TEST I, 2017

PLANT HEIGHT (inches)

Strain	Rosemount MN	Cotesfield NE	Phillips NE	Ridgetown ONT	St. Pauls ONT	Woodstock ONT	Saint Hyacinthe QUE
MN1410 (I)	43		37	24	39	34	47
IA1022 (SCN)	34		40	22	33	22	37
Sheyenne (O)	41		32	20	33	35	36
U11-917032	41		33	23	35	33	32
M07-209037	40		32	25	36	35	37
M09-278026	43		40	26	38	36	36
M09-285032	42		41	27	37	39	35
M09-285149	41		35	22	32	28	34
M09-343025	39		38	28	42	39	38
M10-171020	37		35	22	36	34	35
M10-254090	45		42	25	41	37	42
M11-131015	44		35	25	38	37	38
M11-131022	39		41	27	38	37	38
M11-132044	39		36	24	34	36	36
MSC09-774089	46		39	26	39	37	39
MSC10-559061	43		39	24	36	25	39
ORC 3313N	44		34	26	41	38	39
ORC 3713N	45		38	26	40	42	41
U14-103015	37		34	24	37	33	36

UNIFORM TEST I, 2017

SEED SIZE (g/100)

Strain	Mean 12 Tests	Kanawha IA	Wanatah IN	West Lafayette IN	East Lansing MI	Saginaw MI	Danvers MN
MN1410 (I)	18.1	16.5	19.1	16.7	17.9		15.0
IA1022 (SCN)	16.6	13.3	14.7	15.2	16.2		16.2
Sheyenne (O)	17.2	15.3	17.1	16.2	17.8		15.2
U11-917032	17.1	16.9	15.2	14.9	16.8		16.3
M07-209037	16.3	16.9	16.8	14.7	15.0		15.5
M09-278026	15.4	13.6	16.2	13.4	15.9		15.5
M09-285032	17.0	14.8	16.3	16.0	17.4		16.2
M09-285149	16.4	13.9	14.8	13.6	16.0		16.9
M09-343025	15.2	12.2	13.6	13.2	14.7		14.9
M10-171020	17.2	17.3	16.5	14.9	17.0		15.8
M10-254090	20.6	20.3	20.0	19.0	21.2		18.9
M11-131015	17.8	15.4	17.3	16.5	18.4		16.2
M11-131022	18.7	17.3	18.5	17.0	18.2		17.2
M11-132044	18.9	16.5	18.7	16.7	19.0		16.1
MSC09-774089	16.4	14.2	16.5	14.4	15.9		16.2
MSC10-559061	14.5	12.9	13.7	12.9	13.4		13.6
ORC 3313N	22.8	20.9	24.2	19.4	23.7		22.6
ORC 3713N	19.7	18.8	17.4	16.2	17.7		18.8
U14-103015	17.0	14.5	15.7	15.2	16.5		15.9

UNIFORM TEST I, 2017

SEED QUALITY (score)

Strain	Mean 10 Tests	Kanawha IA	Wanatah IN	West Lafayette IN	East Lansing MI	Saginaw MI	Danvers MN
MN1410 (I)	1.2	1.0	1.0	1.0			1.0
IA1022 (SCN)	1.3	1.0	1.0	1.0			1.0
Sheyenne (O)	1.6	1.0	1.0	1.0			1.0
U11-917032	1.3	1.0	1.0	1.0			1.0
M07-209037	1.3	2.0	1.0	1.0			1.0
M09-278026	1.3	1.0	1.0	1.0			1.0
M09-285032	1.2	1.0	1.0	1.0			1.0
M09-285149	1.2	1.0	1.0	1.0			1.0
M09-343025	1.3	1.0	1.0	1.0			2.0
M10-171020	1.3	1.0	1.0	1.0			1.0
M10-254090	1.9	1.0	1.0	1.0			2.0
M11-131015	1.2	1.0	1.0	1.0			1.0
M11-131022	1.5	1.0	1.0	1.0			2.0
M11-132044	1.2	1.0	1.0	1.0			1.0
MSC09-774089	1.3	1.0	1.0	1.0			1.0
MSC10-559061	1.3	1.0	1.0	1.0			1.0
ORC 3313N	1.8	1.0	1.5	1.0			2.0
ORC 3713N	1.4	1.0	1.0	1.0			2.0
U14-103015	1.1	1.0	1.0	1.0			1.0

UNIFORM TEST I, 2017

SEED SIZE (g/100)

Strain	Rosemount MN	Cotesfield NE	Phillips NE	Ridgetown ONT	St. Pauls ONT	Woodstock ONT	Saint Hyacinthe QUE
MN1410 (I)	17.8	19.3	19.1	19.5	19.1	18.8	19.0
IA1022 (SCN)	17.9	18.2	17.8	18.3	17.8	16.7	17.5
Sheyenne (O)	18.2	16.9	18.3	17.7	16.9	18.8	17.8
U11-917032	18.2	18.0	17.6	17.7	17.8	18.6	17.4
M07-209037	17.5	17.7	15.9	18.1	15.8	17.0	15.2
M09-278026	16.3	15.5	15.0	16.8	15.4	16.6	15.0
M09-285032	18.5	17.2	17.4	18.9	17.6	18.1	15.9
M09-285149	17.6	17.1	17.1	18.2	17.5	17.5	16.7
M09-343025	15.6	15.5	15.4	17.8	16.8	16.5	15.8
M10-171020	16.9	18.5	18.5	17.6	17.1	18.1	18.1
M10-254090	21.9	19.6	20.0	21.5	20.9	23.3	20.9
M11-131015	18.8	18.4	18.5	17.5	18.8	20.3	17.8
M11-131022	19.2	20.2	19.6	19.8	18.6	20.2	19.3
M11-132044	20.0	20.9	20.2	19.8	19.9	20.6	19.0
MSC09-774089	18.2	15.7	16.6	18.1	16.8	18.3	15.8
MSC10-559061	15.1	16.8	18.2	15.8	13.5	13.2	14.6
ORC 3313N	22.0	22.3	22.6	22.2	24.8	25.2	23.3
ORC 3713N	20.3	20.0	19.9	21.5	21.5	23.1	21.3
U14-103015	17.5	19.4	18.9	19.1	17.0	17.8	17.2

UNIFORM TEST I, 2017

SEED QUALITY (score)

Strain	Rosemount MN	Cotesfield NE	Phillips NE	Ridgetown ONT	St. Pauls ONT	Woodstock ONT	Saint Hyacinthe QUE
MN1410 (I)	1.0	1.0	2.0	1.0	1.5	1.5	
IA1022 (SCN)	2.0	1.0	1.0	1.0	2.0	1.5	
Sheyenne (O)	3.0	2.0	3.0	1.0	1.5	1.5	
U11-917032	1.0	1.5	2.0	1.0	1.5	1.5	
M07-209037	1.0	1.0	2.0	1.0	1.5	1.5	
M09-278026	2.0	1.0	2.0	1.0	1.5	1.5	
M09-285032	1.0	1.0	2.0	1.0	1.5	1.5	
M09-285149	1.0	1.0	1.5	1.0	1.5	1.5	
M09-343025	1.0	1.0	2.0	1.0	1.5	1.5	
M10-171020	2.0	1.0	2.0	1.0	1.5	1.5	
M10-254090	3.0	1.0	1.5	1.0	3.5	4.0	
M11-131015	2.0	1.0	1.5	1.0	1.5	1.0	
M11-131022	3.0	1.0	2.0	1.0	1.5	1.5	
M11-132044	1.0	1.0	2.0	1.0	1.5	1.5	
MSC09-774089	2.0	1.0	2.0	1.0	1.5	1.5	
MSC10-559061	2.0	1.0	2.0	1.0	1.5	1.5	
ORC 3313N	3.0	1.0	2.0	1.0	3.5	2.0	
ORC 3713N	2.0	1.0	1.0	1.0	2.0	1.5	
U14-103015	1.0	1.0	1.0	1.0	1.5	1.5	

UNIFORM TEST I, 2017

PROTEIN (%)

Strain	Mean 9 Tests	Kanawha IA	West Laf IN	Dan- vers MN	Rose- mount MN	Cotes- field NE	Ridge- town ONT	St.* Pauls ONT	Wood-* stock ONT	Saint Hyacinthe QUE
MN1410 (I)	35.0	32.8	33.5	35.1	36.2	34.5	35.3	35.3	36.5	35.7
IA1022 (SCN)	32.7	32.0	30.8	32.2	35.6	31.7	32.5	33.8	34.2	31.0
Sheyenne (O)	33.9	32.3	33.0	34.2	32.7	33.5	34.0	35.5	35.8	34.0
U11-917032	33.3	31.8	30.6	33.3	34.3	33.1	32.7	34.5	36.5	33.4
M07-209037	34.6	33.9	32.2	35.6	35.2	34.1	34.7	35.4	36.0	34.6
M09-278026	34.0	33.5	32.3	35.1	35.2	33.2	34.7	33.9	35.3	32.8
M09-285032	34.0	33.1	32.9	34.1	35.4	32.7	34.6	34.2	35.6	33.3
M09-285149	34.7	33.3	33.3	35.6	35.6	33.1	35.6	35.5	36.5	34.1
M09-343025	34.5	32.8	32.5	34.9	35.1	34.9	35.3	35.5	36.5	33.4
M10-171020	34.7	34.6	32.4	35.0	35.1	33.8	35.3	34.9	36.2	35.3
M10-254090	36.0	35.0	34.4	37.1	36.2	34.3	37.7	35.7	37.7	36.1
M11-131015	34.6	33.6	33.0	35.3	35.0	33.7	35.9	34.3	36.0	34.9
M11-131022	35.8	35.1	35.7	36.0	36.5	34.7	36.0	36.5	36.5	35.4
M11-132044	34.8	33.9	33.4	34.1	35.8	35.1	35.4	35.1	35.7	34.7
MSC09-774089	34.9	32.5	32.5	35.5	36.6	34.4	35.5	35.0	36.4	35.6
MSC10-559061	33.8	33.1	32.3	34.4	32.5	34.4	34.3	33.6	35.6	34.2
ORC 3313N	35.4	34.6	32.0	36.1	36.2	35.8	35.9	35.8	37.2	35.6
ORC 3713N	34.1	33.3	31.9	34.4	35.1	34.5	34.5	33.5	35.8	34.3
U14-103015	35.1	33.9	32.6	35.8	35.7	36.5	35.1	34.9	36.8	34.6

*Data adjusted to 13% moisture

UNIFORM TEST I, 2017

OIL (%)

Strain	Mean 9 Tests	Kanawha IA	West Laf IN	Dan- vers MN	Rose- mount MN	Cotes- field NE	Ridge- town ONT	St.* Pauls ONT	Wood-* stock ONT	Saint Hyacinthe QUE
MN1410 (I)	18.6	19.3	19.8	18.7	18.0	18.9	18.4	17.8	17.7	18.7
IA1022 (SCN)	18.9	19.6	20.4	19.5	18.3	18.4	18.5	17.9	18.2	19.3
Sheyenne (O)	18.4	19.1	19.0	18.0	18.7	18.9	19.3	17.0	17.2	18.0
U11-917032	18.9	19.7	20.5	18.9	18.6	19.2	18.5	18.1	17.7	18.7
M07-209037	17.6	18.2	19.3	17.7	15.6	18.7	18.0	16.7	17.0	17.5
M09-278026	18.1	18.4	19.2	17.7	17.6	18.9	17.9	17.5	17.3	18.4
M09-285032	18.5	19.2	19.5	18.5	17.9	19.4	17.9	17.9	17.6	18.7
M09-285149	18.2	19.0	19.0	18.1	17.6	19.3	18.1	17.4	17.4	18.1
M09-343025	18.7	19.5	20.3	18.6	18.8	19.1	17.7	17.7	17.5	19.5
M10-171020	17.8	18.1	19.3	16.7	17.4	18.8	17.4	17.4	17.4	17.4
M10-254090	17.7	18.1	19.2	17.0	17.3	18.9	17.8	17.0	16.6	17.2
M11-131015	17.5	18.1	18.2	16.0	17.1	18.6	18.7	17.1	17.0	17.1
M11-131022	17.1	17.9	18.0	17.1	16.4	17.2	17.3	16.4	16.5	17.3
M11-132044	18.0	18.6	19.5	18.2	17.5	18.4	18.1	17.2	17.1	17.7
MSC09-774089	18.1	18.8	19.6	17.7	17.5	18.6	18.0	17.4	17.3	17.6
MSC10-559061	18.2	19.0	19.3	18.3	17.3	18.5	18.4	17.7	17.3	18.2
ORC 3313N	18.1	19.2	20.0	17.9	17.6	18.5	17.8	17.1	16.8	17.8
ORC 3713N	18.8	19.6	20.1	18.9	18.6	19.4	18.3	18.2	17.6	18.8
U14-103015	18.7	18.9	19.9	17.9	18.3	21.7	17.7	17.8	17.5	18.5

*Data adjusted to 13% moisture

PRELIMINARY TEST I, 2017							
Ent.	Strain	Parentage	Seed Source	Gen. Comp.	Unique Traits	Germ. %	Sd. Wt. g/100
1	MN1410 (I)	Unknown	Lorenz	F5		99	16.2
2	IA1022 (SCN)	Dairyland 98822 x A00-711024	Cai	F5	SCN	81	15.1
3	Sheyenne (O)	Pioneer 9071 x A96-492041	Helms	F4	Rps1-c	97	12.2
4	U11-917032	LD02-4485 x U03-100612	Graef	F6	SCN, HR, MR	96	16.4
5	AR13-132078	AR07-176075 x Syngenta 03JR321088	Cianzio	F4		96	16.4
6	M11-241015	M03-347183 x LD06-16721	Lorenz	F5	SCN	98	16.8
7	M11-268105	M05-357149 x ND06-25150	Lorenz	F5	SCN	99	15.6
8	M11-280085	M05-328025 x MN98-149-249-2-2	Lorenz	F5		99	17.1
9	M11-338048		Lorenz	F5		99	15.6
10	M11-358032	KENFENG 16 x ChC1-RIL-039	Lorenz	F5	Diversity	99	16.8
11	M11-377069	PI561389B x M05-175-1039	Lorenz	F5	Diversity, Rps8	98	15.5
12	MBC11-404-010	MN1410 x Xmasc-M5-10	Lorenz	F5		99	17.8
13	OAC 15-30C-SCN	Colby x DH410	Rajcan	F5			
14	OAC 15-32C	OAC Wallace x Venus	Rajcan	F5			
15	OAC 15-33C	OAC Bayfield x Venus	Rajcan	F5			
16	OAC 15-36C	Colby x OAC Huron	Rajcan	F5			
17	ORC 2516N	OAC Thames x RCAT 0901N	Eskandari	F5	Food-grade	86	17.6
18	ORC 2616N	RCAT 0901N x SC 4110	Eskandari	F5	Food-grade	93	18.4
19	U14-108007	U11-926035 x U09-105007	Graef	F5	IDC, Rps	96	19.2
20	U14-110036	U11-926035 x U09-105007	Graef	F5	IDC, Rps	98	15.5
21	U14-111010	U11-935093 x U09-105007	Graef	F5	IDC, Rps	98	15.9
22	U15-934067	U11-919011 x U11-921041	Graef	F5	SCN, Rsv4	96	16.2

PRELIMINARY TEST I, 2017
DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	IDC
		Score
		Danvers
MN1410 (I)	WGBSYDbfI	3.0
IA1022 (SCN)	PGTSYYI	3.0
Sheyenne (0)	PGTSYYI	1.8
U11-917032	PTBDYBI	2.8
AR13-132078	PTBSYBI	2.5
M11-241015	PTBSYBI	2.3
M11-268105	WTBSYBrI	2.5
M11-280085	WTBSYBr+DbfI	2.0
M11-338048	WGTSYBfI	1.5
M11-358032	PTTIYDbrI	1.8
M11-377069	PGTSYBfI	1.5
MBC11-404-010	WGTDYDbfI	2.0
OAC 15-30C-SCN	PGTSYBI	2.0
OAC 15-32C	PTBDYYI	1.8
OAC 15-33C	PTBSYYI	2.5
OAC 15-36C	PGBDYII	2.0
ORC 2516N	PTBSYYI	3.3
ORC 2616N	WGTDYYI	3.3
U14-108007	PTBIYBrI	2.3
U14-110036	PTBSYDbrI	2.5
U14-111010	PTBSYBI	3.3
U15-934067	PTBSYBI	1.5

PRELIMINARY TEST I, 2017

REGIONAL SUMMARY

No. of Tests Strain	Yield 10 bu/a	Rank 10 No.	Maturity 9 Date	Lodging 9 Score	Plant Height 9 In.	Seed Size 9 g/100	Seed Quality 9 Score	Composition	
								Protein 9 %	Oil 9 %
MN1410 (I)	52.7	14	9/20	1.5	34	17.7	1.4	34.9	18.7
IA1022 (SCN)	48.7	18	5.7	1.8	30	17.2	1.4	32.6	19.4
Shenene (O)	53.9	10	-4.2	1.2	30	17.1	1.7	33.9	18.5
U11-917032	59.6	4	3.2	1.9	32	16.6	1.5	33.0	19.1
AR13-132078	60.0	3	4.4	2.0	32	16.8	1.5	35.1	18.1
M11-241015	53.4	11	0.9	1.3	31	17.5	1.4	34.4	18.5
M11-268105	52.1	16	4.9	1.7	31	16.9	1.4	34.1	18.6
M11-280085	57.0	7	3.0	2.1	37	19.4	1.5	34.9	18.0
M11-338048	54.0	9	-0.7	1.7	35	17.4	1.4	34.1	18.7
M11-358032	56.1	8	-0.3	1.2	32	18.4	1.4	34.5	18.6
M11-377069	52.3	15	3.9	1.8	33	17.6	1.2	34.1	19.1
MBC11-404-010	53.1	12	2.7	1.3	34	20.1	1.4	36.1	18.1
OAC 15-30C-SCN	48.0	20	-3.4	1.8	32	17.6	1.5	34.8	18.8
OAC 15-32C	47.0	21	-2.9	1.2	33	19.7	1.3	33.2	19.3
OAC 15-33C	46.2	22	-5.1	1.3	32	18.1	1.4	36.5	18.0
OAC 15-36C	50.3	17	-0.1	1.6	33	20.7	1.8	34.3	18.2
ORC 2516N	48.3	19	0.4	1.2	27	16.9	1.6	34.3	18.3
ORC 2616N	52.9	13	2.8	1.7	33	18.3	1.6	34.6	18.2
U14-108007	62.1	1	4.6	1.5	32	18.1	1.6	33.3	19.2
U14-110036	60.3	2	5.5	1.5	33	17.1	1.4	34.4	18.8
U14-111010	59.2	5	2.9	1.4	32	16.2	1.4	33.1	19.1
U15-934067	58.6	6	4.4	1.4	32	15.9	1.2	33.4	18.7
Mean	52.8		18.6	1.5	31.8	17.8	1.4		
C.V. (%)	15.7		14.3	33.4	8.6	7.5	26.0		
L.S.D. (5%)	4.6		1.6	0.3	1.6	0.9	0.3		

119.3 Days After Planting

PRELIMINARY TEST I, 2017

YIELD (bu/a)

Strain	Mean 10 Tests	Kanawha IA	West Lafayette IN	East Lansing MI	Danvers MN	Rosemount MN
MN1410 (I)	52.7	40.5	60.8	49.3	41.2	55.9
IA1022 (SCN)	48.7	40.3	51.2	42.9	41.5	29.8
Sheyenne (O)	53.9	41.7	56.9	43.9	41.0	65.7
U11-917032	59.6	58.3	59.0	52.6	37.3	60.3
AR13-132078	60.0	54.9	53.7	56.7	46.6	58.3
M11-241015	53.4	55.4	57.1	41.7	39.0	58.1
M11-268105	52.1	44.2	58.9	39.6	39.9	52.7
M11-280085	57.0	49.2	50.3	53.4	45.1	52.1
M11-338048	54.0	39.4	58.9	43.6	44.6	56.8
M11-358032	56.1	49.1	60.5	39.5	42.0	57.7
M11-377069	52.3	40.5	55.0	51.2	35.6	56.0
MBC11-404-010	53.1	39.5	56.4	45.5	38.8	62.6
OAC 15-30C-SCN	48.0	41.6	60.4	44.5	36.4	41.9
OAC 15-32C	47.0	37.7	42.3	42.3	33.1	55.4
OAC 15-33C	46.2	33.6	61.0	36.2	31.0	49.3
OAC 15-36C	50.3	37.7	46.5	47.1	29.9	51.8
ORC 2516N	48.3	50.0	47.1	37.3	40.2	49.2
ORC 2616N	52.9	49.7	52.4	41.3	42.9	49.1
U14-108007	62.1	47.2	62.2	43.7	43.7	59.6
U14-110036	60.3	47.8	58.0	55.0	40.9	53.1
U14-111010	59.2	50.1	58.4	46.4	38.9	55.4
U15-934067	58.6	59.6	61.3	42.7	36.6	55.3
Location Mean		45.8	55.8	45.3	39.4	53.9
C.V. (%)		11.9	4.6	14.6	10.7	12.7
L.S.D. (5%)		13.7	4.4	16.9	9.2	14.3
Row Sp. (In.)		30	30	30	30	30
Rows/Plot		4	4	4	4	4
Reps		2	2	2	2	2

PRELIMINARY TEST I, 2017

YIELD (bu/a)

Strain	Cotesfield NE	Phillips NE	Ridgetown ONT	St. Pauls ONT	Saint Hyacinthe QUE
MN1410 (I)	75.5	47.6	44.6	52.9	58.8
IA1022 (SCN)	85.5	55.5	40.4	26.4	73.3
Sheyenne (O)	73.2	39.7	45.8	59.9	71.0
U11-917032	97.4	53.3	51.1	56.3	70.8
AR13-132078	92.0	70.7	50.9	53.5	62.7
M11-241015	82.0	53.1	45.7	54.5	47.0
M11-268105	83.4	55.8	43.8	53.1	50.0
M11-280085	95.4	52.7	49.3	52.2	70.5
M11-338048	85.4	42.2	48.4	60.6	60.5
M11-358032	83.1	57.4	47.2	52.3	72.1
M11-377069	75.4	57.0	45.6	48.0	58.8
MBC11-404-010	82.0	54.2	39.2	53.6	59.2
OAC 15-30C-SCN	69.8	20.3	45.7	53.8	65.8
OAC 15-32C	79.0	34.1	41.5	44.1	60.5
OAC 15-33C	64.2	32.7	38.8	51.8	63.3
OAC 15-36C	78.9	39.7	52.4	54.5	64.7
ORC 2516N	73.1	37.8	42.7	39.7	66.4
ORC 2616N	79.1	40.9	56.2	51.6	66.2
U14-108007	90.3	75.7	55.0	65.8	77.4
U14-110036	97.0	69.8	55.8	53.0	72.2
U14-111010	94.7	69.5	53.3	56.3	69.2
U15-934067	93.8	62.7	47.0	65.5	61.3
Location Mean	83.2	51.0	47.3	52.7	64.6
C.V. (%)	6.9	10.6	8.9	12.7	6.5
L.S.D. (5%)	12.3	11.6	8.9	13.9	6.3
Row Sp. (In.)	30	30	17	14	15
Rows/Plot	4	4	5	4	4
Reps	2	2	2	2	3

PRELIMINARY TEST I, 2017

YIELD RANK

Strain	Yield Rank	Kanawha IA	West Lafayette IN	East Lansing MI	Danvers MN	Rosemount MN
MN1410 (I)	14	16	4	6	8	10
IA1022 (SCN)	18	17	18	14	7	22
Sheyenne (O)	10	13	13	11	9	1
U11-917032	4	2	7	4	16	3
AR13-132078	3	4	16	1	1	5
M11-241015	11	3	12	17	13	6
M11-268105	16	12	8	19	12	15
M11-280085	7	8	19	3	2	16
M11-338048	9	19	8	13	3	8
M11-358032	8	9	5	20	6	7
M11-377069	15	15	15	5	19	9
MBC11-404-010	12	18	14	9	15	2
OAC 15-30C-SCN	20	14	6	10	18	21
OAC 15-32C	21	21	22	16	20	12
OAC 15-33C	22	22	3	22	21	18
OAC 15-36C	17	20	21	7	22	17
ORC 2516N	19	6	20	21	11	19
ORC 2616N	13	7	17	18	5	20
U14-108007	1	11	1	12	4	4
U14-110036	2	10	11	2	10	14
U14-111010	5	5	10	8	14	11
U15-934067	6	1	2	15	17	13

PRELIMINARY TEST I, 2017

YIELD RANK

Strain	Cotesfield NE	Phillips NE	Ridgetown ONT	St. Pauls ONT	Saint Hyacinthe QUE
MN1410 (I)	17	14	16	14	19
IA1022 (SCN)	8	9	20	22	2
Sheyenne (O)	19	17	12	4	5
U11-917032	1	11	6	5	6
AR13-132078	6	2	7	11	14
M11-241015	13	12	13	7	22
M11-268105	10	8	17	12	21
M11-280085	3	13	8	16	7
M11-338048	9	15	9	3	16
M11-358032	11	6	10	15	4
M11-377069	18	7	15	19	19
MBC11-404-010	12	10	21	10	18
OAC 15-30C-SCN	21	22	14	9	11
OAC 15-32C	15	20	19	20	16
OAC 15-33C	22	21	22	17	13
OAC 15-36C	16	18	5	7	12
ORC 2516N	20	19	18	21	9
ORC 2616N	14	16	1	18	10
U14-108007	7	1	3	1	1
U14-110036	2	3	2	13	3
U14-111010	4	4	4	5	8
U15-934067	5	5	11	2	15

PRELIMINARY TEST I, 2017

MATURITY (date)

Strain	Mean 9 Tests	Kanawha IA	West Lafayette IN	East Lansing MI	Danvers MN	Rosemount MN
MN1410 (I)	9/20	9/15	9/19	9/22	9/30	9/22
IA1022 (SCN)	6	7	1	5	9	4
Sheyenne (O)	-4	-4	-4	-4	-6	-5
U11-917032	3	11	-1	4	5	1
AR13-132078	4	11	0	5	5	3
M11-241015	1	8	-3	2	-1	-1
M11-268105	5	9	0	5	7	5
M11-280085	3	9	1	5	-0	2
M11-338048	-1	5	0	0	-2	-1
M11-358032	-0	4	-1	-2	-2	-2
M11-377069	4	10	-1	3	4	4
MBC11-404-010	3	5	0	3	8	3
OAC 15-30C-SCN	-3	-2	-2	-1	-5	-4
OAC 15-32C	-3	-1	0	-3	-4	-4
OAC 15-33C	-5	-4	-4	-4	-6	-5
OAC 15-36C	-0	-2	0	-1	-1	-1
ORC 2516N	0	2	1	0	-1	1
ORC 2616N	3	7	0	3	2	3
U14-108007	5	9	1	6	2	4
U14-110036	6	11	2	6	5	6
U14-111010	3	9	1	5	-0	-1
U15-934067	4	11	0	5	3	3
Date Planted	5/24	5/12	6/2	6/2	6/2	5/10
Days to Mature	119	126	109	112	120	135

PRELIMINARY TEST I, 2017

MATURITY (date)

Strain	Cotesfield NE	Phillips NE	Ridgetown ONT	St. Pauls ONT	Saint Hyacinthe QUE
MN1410 (I)		9/7	9/19	9/26	9/25
IA1022 (SCN)		5	7	11	3
Sheyenne (0)		-3	-3	-4	-5
U11-917032		2	6	2	0
AR13-132078		4	8	5	0
M11-241015		-1	6	1	-2
M11-268105		4	8	5	2
M11-280085		1	6	4	0
M11-338048		-1	-2	-3	-3
M11-358032		-2	6	0	-4
M11-377069		4	7	3	2
MBC11-404-010		0	4	1	2
OAC 15-30C-SCN		-8	-1	-2	-7
OAC 15-32C		-2	-4	-1	-8
OAC 15-33C		-4	-4	-7	-8
OAC 15-36C		-2	6	2	-2
ORC 2516N		-1	5	1	-3
ORC 2616N		-1	8	4	0
U14-108007		5	7	8	0
U14-110036		5	6	8	1
U14-111010		2	7	4	0
U15-934067		5	7	7	0
Date Planted		5/15	6/6	5/20	5/25
Days to Mature		115	105	129	123

PRELIMINARY TEST I, 2017

LODGING (score)

Strain	Mean 9 Tests	Kanawha IA	West Lafayette IN	East Lansing MI	Danvers MN	Rosemount MN
MN1410 (I)	1.5	2.0	2.5	1.0	1.0	1.0
IA1022 (SCN)	1.8	2.0	2.0	1.0	1.0	2.0
Sheyenne (O)	1.2	1.8	2.0	1.0	1.0	1.0
U11-917032	1.9	2.3	3.5	1.5	1.0	2.0
AR13-132078	2.0	2.5	4.0	1.0	1.0	3.0
M11-241015	1.3	1.3	1.0	1.0	1.0	1.0
M11-268105	1.7	2.0	3.0	1.0	1.0	3.0
M11-280085	2.1	2.5	3.5	1.0	1.0	3.0
M11-338048	1.7	2.5	2.3	1.0	1.0	3.0
M11-358032	1.2	1.8	1.0	1.0	1.0	1.0
M11-377069	1.8	2.0	2.3	1.0	1.0	3.0
MBC11-404-010	1.3	1.5	2.5	1.0	1.0	2.0
OAC 15-30C-SCN	1.8	2.0	2.5	1.5	1.0	2.0
OAC 15-32C	1.2	1.3	1.3	1.0	1.0	1.0
OAC 15-33C	1.3	1.8	1.8	1.5	1.0	1.0
OAC 15-36C	1.6	1.8	2.3	1.5	1.0	3.0
ORC 2516N	1.2	2.0	1.5	1.0	1.0	1.0
ORC 2616N	1.7	1.8	2.0	1.0	1.0	3.0
U14-108007	1.5	2.3	1.5	1.0	1.0	1.0
U14-110036	1.5	2.3	1.3	1.0	1.0	3.0
U14-111010	1.4	2.0	1.3	1.0	1.0	1.0
U15-934067	1.4	1.8	1.5	1.0	1.0	1.0

PRELIMINARY TEST I, 2017

LODGING (score)

Strain	Cotesfield NE	Phillips NE	Ridgetown ONT	St. Pauls ONT	Saint Hyacinthe QUE
MN1410 (I)		2.0	1.0	1.3	2.0
IA1022 (SCN)		2.0	1.0	1.3	4.0
Sheyenne (O)		1.0	1.0	1.0	1.0
U11-917032		2.0	1.0	1.0	3.0
AR13-132078		1.5	1.0	1.0	3.0
M11-241015		1.0	1.0	1.0	3.0
M11-268105		2.0	1.0	1.0	1.0
M11-280085		3.0	1.0	1.3	3.0
M11-338048		2.0	1.0	1.3	1.0
M11-358032		1.0	1.0	1.0	2.0
M11-377069		1.0	1.0	1.0	4.0
MBC11-404-010		1.0	1.0	1.0	1.0
OAC 15-30C-SCN		3.0	1.0	1.0	2.0
OAC 15-32C		1.0	1.0	1.0	2.0
OAC 15-33C		1.0	1.0	1.0	2.0
OAC 15-36C		1.0	1.0	1.0	2.0
ORC 2516N		1.0	1.0	1.0	1.0
ORC 2616N		1.5	1.0	1.0	3.0
U14-108007		1.5	1.0	1.0	3.0
U14-110036		1.0	1.0	1.0	2.0
U14-111010		1.0	1.0	1.0	3.0
U15-934067		1.5	1.0	1.0	3.0

PRELIMINARY TEST I, 2017

PLANT HEIGHT (inches)

Strain	Mean 9 Tests	Kanawha IA	West Lafayette IN	East Lansing MI	Danvers MN	Rosemount MN
MN1410 (I)	34	33	34	36	36	41
IA1022 (SCN)	30	30	34	32	29	34
Sheyenne (O)	30	27	28	32	31	40
U11-917032	32	31	32	33	35	38
AR13-132078	32	34	31	34	32	40
M11-241015	31	28	27	31	33	37
M11-268105	31	27	33	31	33	39
M11-280085	37	37	35	38	37	44
M11-338048	35	35	35	40	34	46
M11-358032	32	27	29	32	31	41
M11-377069	33	33	35	36	37	41
MBC11-404-010	34	29	36	34	38	44
OAC 15-30C-SCN	32	30	31	33	33	42
OAC 15-32C	33	32	34	34	37	39
OAC 15-33C	32	27	34	34	31	37
OAC 15-36C	33	29	31	34	36	39
ORC 2516N	27	28	26	27	26	31
ORC 2616N	33	32	31	32	31	39
U14-108007	32	34	32	32	34	39
U14-110036	33	35	32	32	32	40
U14-111010	32	29	29	32	32	35
U15-934067	32	30	39	29	32	36

PRELIMINARY TEST I, 2017

PLANT HEIGHT (inches)

Strain	Cotesfield NE	Phillips NE	Ridgetown ONT	St. Pauls ONT	Saint Hyacinthe QUE
MN1410 (I)		36	27	33	31
IA1022 (SCN)		36	19	30	32
Sheyenne (O)		35	20	28	34
U11-917032		34	22	28	35
AR13-132078		35	22	31	32
M11-241015		33	21	32	36
M11-268105		35	22	31	28
M11-280085		38	28	37	40
M11-338048		40	23	35	33
M11-358032		32	21	27	45
M11-377069		34	21	33	33
MBC11-404-010		35	21	30	36
OAC 15-30C-SCN		34	22	32	30
OAC 15-32C		35	23	30	35
OAC 15-33C		34	24	30	42
OAC 15-36C		34	22	34	36
ORC 2516N		29	23	27	32
ORC 2616N		34	23	33	39
U14-108007		33	23	29	32
U14-110036		38	23	33	35
U14-111010		42	24	27	40
U15-934067		31	24	29	37

PRELIMINARY TEST I, 2017

SEED SIZE (g/100)

Strain	Mean 9 Tests	Kanawha IA	West Lafayette IN	East Lansing MI	Danvers MN	Rosemount MN
MN1410 (I)	17.7	15.8	17.8		15.3	18.0
IA1022 (SCN)	17.2	13.7	16.5		16.3	18.3
Shyenne (O)	17.1	13.9	18.1		15.1	17.3
U11-917032	16.6	17.2	16.2		17.0	17.8
AR13-132078	16.8	14.3	16.4		16.0	17.1
M11-241015	17.5	17.0	18.3		17.7	18.0
M11-268105	16.9	15.4	16.0		15.9	17.2
M11-280085	19.4	16.9	17.5		19.3	21.5
M11-338048	17.4	15.7	17.7		15.2	17.1
M11-358032	18.4	17.5	18.0		16.0	18.6
M11-377069	17.6	14.9	16.8		17.5	19.2
MBC11-404-010	20.1	17.2	21.0		18.0	20.1
OAC 15-30C-SCN	17.6	16.0	16.0		17.2	16.9
OAC 15-32C	19.7	17.3	20.0		18.6	19.2
OAC 15-33C	18.1	16.8	17.3		16.2	17.8
OAC 15-36C	20.7	15.8	21.4		19.9	23.1
ORC 2516N	16.9	15.5	15.7		16.6	17.6
ORC 2616N	18.3	17.1	18.8		16.7	19.1
U14-108007	18.1	15.8	17.2		15.9	19.2
U14-110036	17.1	13.8	15.8		14.5	17.4
U14-111010	16.2	13.0	15.7		14.1	16.4
U15-934067	15.9	13.6	15.0		14.1	15.4

PRELIMINARY TEST I, 2017

SEED SIZE (g/100)

Strain	Cotesfield NE	Phillips NE	Ridgetown ONT	St. Pauls ONT	Saint Hyacinthe QUE
MN1410 (I)	19.7	18.6	18.2	17.5	18.3
IA1022 (SCN)	18.1	17.4	19.8	16.4	18.0
Sheyenne (O)	17.9	17.9	17.8	17.2	18.6
U11-917032	13.2	17.3	18.4	16.2	16.0
AR13-132078	18.0	16.6	18.2	16.3	18.2
M11-241015	19.1	12.7	20.2	17.7	16.5
M11-268105	18.7	17.5	19.4	15.7	16.6
M11-280085	19.9	20.6	20.9	18.0	19.9
M11-338048	19.2	18.2	18.4	16.8	18.8
M11-358032	20.9	19.0	19.9	17.6	18.6
M11-377069	17.7	19.2	19.0	18.0	15.9
MBC11-404-010	20.1	22.8	21.3	19.6	20.8
OAC 15-30C-SCN	17.5	17.7	20.8	19.1	16.9
OAC 15-32C	19.5	19.2	20.3	20.3	22.7
OAC 15-33C	17.7	17.7	20.6	22.0	17.0
OAC 15-36C	21.5	22.4	23.5	22.4	16.7
ORC 2516N	17.4	15.9	18.7	16.4	18.8
ORC 2616N	18.7	18.3	19.4	17.5	18.7
U14-108007	20.5	19.5	19.7	17.7	17.5
U14-110036	18.6	17.0	18.4	15.4	22.9
U14-111010	16.8	16.1	17.9	15.6	20.5
U15-934067	17.7	17.7	17.8	15.2	16.2

PRELIMINARY TEST I, 2017

SEED QUALITY (score)

Strain	Mean 9 Tests	Kanawha IA	West Lafayette IN	East Lansing MI	Danvers MN	Rosemount MN
MN1410 (I)	1.4	1.0	1.0		1.0	2.0
IA1022 (SCN)	1.4	1.0	1.0		1.0	2.0
Sheyenne (O)	1.7	1.0	1.0		1.0	2.0
U11-917032	1.5	1.0	1.0		1.0	2.0
AR13-132078	1.5	1.0	1.0		2.0	2.0
M11-241015	1.4	1.0	1.0		1.0	2.0
M11-268105	1.4	1.0	1.0		1.0	2.0
M11-280085	1.5	1.0	1.0		1.0	2.0
M11-338048	1.4	1.0	1.0		1.0	1.0
M11-358032	1.4	1.0	1.0		1.0	2.0
M11-377069	1.2	1.0	1.0		1.0	1.0
MBC11-404-010	1.4	1.0	1.0		1.0	1.0
OAC 15-30C-SCN	1.5	1.0	1.0		1.0	1.0
OAC 15-32C	1.3	1.0	1.0		1.0	1.0
OAC 15-33C	1.4	1.0	1.0		1.0	2.0
OAC 15-36C	1.8	1.0	1.0		1.0	2.0
ORC 2516N	1.6	1.0	1.0		2.0	2.0
ORC 2616N	1.6	1.0	1.0		2.0	2.0
U14-108007	1.6	1.0	1.0		1.0	2.0
U14-110036	1.4	1.0	1.0		1.0	2.0
U14-111010	1.4	1.0	1.0		1.0	2.0
U15-934067	1.2	1.0	1.0		1.0	1.0

PRELIMINARY TEST I, 2017**SEED QUALITY (score)**

Strain	Cotesfield NE	Phillips NE	Ridgetown ONT	St. Pauls ONT	Saint Hyacinthe QUE
MN1410 (I)	1.5	2.0	1.0	1.5	2.0
IA1022 (SCN)	1.5	1.5	1.0	1.5	2.0
Sheyenne (O)	2.0	2.5	1.0	1.5	3.0
U11-917032	1.0	2.0	1.0	1.5	3.0
AR13-132078	1.0	1.0	1.0	1.5	3.0
M11-241015	1.0	1.5	1.0	1.5	3.0
M11-268105	1.0	2.0	1.0	1.5	2.0
M11-280085	1.0	2.0	1.0	1.5	3.0
M11-338048	1.0	2.0	1.0	1.5	3.0
M11-358032	1.0	1.5	1.0	1.5	3.0
M11-377069	1.0	2.0	1.0	1.0	2.0
MBC11-404-010	2.0	2.0	1.0	1.5	2.0
OAC 15-30C-SCN	1.0	2.0	1.0	1.5	4.0
OAC 15-32C	1.0	2.0	1.0	2.0	2.0
OAC 15-33C	2.0	1.5	1.0	1.5	2.0
OAC 15-36C	2.0	3.0	1.0	2.0	3.0
ORC 2516N	1.5	1.5	1.0	2.0	2.0
ORC 2616N	1.0	2.0	1.0	1.5	3.0
U14-108007	2.0	1.5	1.0	1.5	3.0
U14-110036	1.0	1.0	1.0	1.5	3.0
U14-111010	1.0	2.0	1.0	1.5	2.0
U15-934067	1.0	1.5	1.0	1.5	2.0

PRELIMINARY TEST I, 2017

PROTEIN (%)

Strain	Mean 9 Tests	Kanawha IA	West Laf IN	Danvers MN	Rose- mount MN	Cotes- field NE	Phillips NE	Ridge- town ONT	St.* Pauls ONT	Saint Hyacinthe QUE
MN1410 (I)	34.9	33.2	34.9	34.9	34.7	35.5	35.8	34.7	34.3	35.8
IA1022 (SCN)	32.6	31.4	32.0	32.5	33.7	32.7	31.6	32.5	33.1	34.1
Sheyenne (O)	33.9	33.0	34.4	33.7	34.3	33.5	34.6	34.9	35.2	31.9
U11-917032	33.0	32.4	33.0	32.7	35.1	32.8	31.0	32.6	34.0	33.5
AR13-132078	35.1	33.5	35.2	35.8	35.4	35.2	34.9	35.3	35.6	35.1
M11-241015	34.4	33.9	35.1	34.7	35.9	34.5	34.7	35.4	35.1	30.8
M11-268105	34.1	32.7	33.2	34.3	36.1	34.1	33.4	33.8	34.1	35.7
M11-280085	34.9	33.6	33.8	35.1	36.2	33.8	35.3	35.6	36.1	35.1
M11-338048	34.1	32.3	34.0	34.8	36.0	34.6	33.0	34.0	34.5	33.8
M11-358032	34.5	32.1	33.3	34.2	36.7	35.4	32.6	35.9	35.6	34.7
M11-377069	34.1	32.5	34.2	35.3	36.0	33.5	34.2	33.9	35.1	32.8
MBC11-404-010	36.1	32.6	35.5	35.8	37.2	36.1	36.4	36.3	36.9	37.8
OAC 15-30C-SCN	34.8	33.4	33.9	35.3	35.3	34.7	35.4	35.2	36.5	33.7
OAC 15-32C	33.2	32.0	33.4	34.1	33.4	32.1	30.9	34.2	34.8	34.0
OAC 15-33C	36.5	33.7	35.2	37.0	37.6	35.4	36.2	38.3	39.8	35.1
OAC 15-36C	34.3	33.6	34.6	34.8	29.0	35.4	35.2	36.5	35.4	34.7
ORC 2516N	34.3	32.7	33.0	34.7	36.6	33.4	34.0	34.2	35.8	34.5
ORC 2616N	34.6	34.0	35.2	34.3	35.6	34.8	33.5	34.6	35.8	34.0
U14-108007	33.3	32.4	33.1	33.1	33.5	33.5	32.8	33.2	33.8	34.7
U14-110036	34.4	32.8	34.7	33.8	36.3	34.3	33.1	35.5	34.2	35.1
U14-111010	33.1	30.9	32.8	32.2	32.7	33.0	32.8	33.4	33.7	36.2
U15-934067	33.4	32.5	32.4	34.1	35.7	29.5	33.2	34.7	34.4	34.4

*Data adjusted to 13% moisture

OIL (%)

Strain	Mean 9 Tests	Kanawha IA	West Laf IN	Danvers MN	Rose- mount MN	Cotes- field NE	Phillips NE	Ridge- town ONT	St.* Pauls ONT	Saint Hyacinthe QUE
MN1410 (I)	18.7	18.7	19.6	18.9	18.6	18.8	18.7	18.8	17.9	18.1
IA1022 (SCN)	19.4	19.5	20.4	19.5	19.3	19.8	20.5	19.1	18.2	18.4
Sheyenne (O)	18.5	18.9	18.4	17.9	17.7	18.8	19.1	18.8	17.2	19.4
U11-917032	19.1	19.5	19.6	19.2	17.9	19.5	20.3	19.0	18.4	18.4
AR13-132078	18.1	18.7	18.9	18.0	17.6	18.0	18.6	18.0	17.6	17.5
M11-241015	18.5	18.7	19.0	18.5	15.9	19.4	19.2	17.8	18.1	19.6
M11-268105	18.6	19.1	19.7	18.6	17.7	18.4	19.4	18.7	18.1	17.6
M11-280085	18.0	18.3	18.5	17.4	17.5	18.7	18.9	17.4	17.3	17.7
M11-338048	18.7	18.8	19.3	18.4	17.8	19.0	19.9	18.4	17.8	18.8
M11-358032	18.6	19.1	19.7	18.7	17.2	18.7	19.6	18.3	17.7	18.6
M11-377069	19.1	19.6	19.9	18.7	18.4	20.1	19.8	18.7	17.9	18.5
MBC11-404-010	18.1	19.4	18.9	18.0	17.4	18.3	18.8	17.6	17.1	17.5
OAC 15-30C-SCN	18.8	19.3	20.2	18.3	18.6	19.5	19.5	18.5	17.2	18.5
OAC 15-32C	19.3	19.9	19.3	18.9	19.0	20.3	20.7	19.3	18.0	18.5
OAC 15-33C	18.0	19.3	18.8	17.6	17.4	18.4	18.7	17.6	16.2	18.2
OAC 15-36C	18.2	18.2	19.0	17.5	19.6	18.4	18.8	17.5	16.7	17.9
ORC 2516N	18.3	18.9	19.0	18.1	17.5	18.8	18.5	18.7	16.8	18.0
ORC 2616N	18.2	18.1	18.5	17.7	17.1	18.5	19.5	18.7	16.9	18.9
U14-108007	19.2	19.6	20.1	19.3	19.1	19.5	20.0	18.9	18.5	17.7
U14-110036	18.8	19.2	19.4	19.1	18.2	19.5	19.8	18.5	18.4	17.0
U14-111010	19.1	19.8	19.8	19.4	19.0	19.4	19.7	19.2	18.5	17.5
U15-934067	18.7	19.0	19.6	18.2	17.6	19.0	19.3	18.7	18.2	18.5

*Data adjusted to 13% moisture

UNIFORM TEST II, 2017

Ent.	Strain	Parentage	Seed Source	Previous Testing	Gen. Comp.	Unique Traits	Germ. %	Sd. Wt. g/100
1	IA2102 (II)	A04-545045 x AgriPro 98180-A01-0613	Cai	6	F4		83	16.0
2	IA1022 (SCN)	Dairyland 98822 x A00-711024	Cai	9	F5	SCN	81	15.1
3	LD02-4485 (SCN)	M90-184111 x IA3010	Diers	5	F5	SCN	94	13.9
4	U11-920017	HS5-3417 x LD02- 4485	Graef	3	F6	Excellent Rps Resistance	99	17.6
5	AR14-247080	AR07-176090 x (PI 606749 x AR03-161009)	Cianzio	SCNUII	F3	SCN	94	14.9
6	DSN11-12073	IA3023 x LD02-4485	Diers/Rainey	PTIIA			88	14.7
7	DSN11-12119	IA3023 x LD02-4485	Diers/Rainey	PTIIA			79	14.0
8	E12042	IA3023 x E00003	Wang	2	F5		99	18.7
9	E13100	LD01-7323 x U01-390489	Wang	1	F5	SCN	89	23.4
10	E13268	U03-300134 x E07051	Wang	1	F5		97	20.8
11	E13370	E07051 x E10928	Wang	1	F5	SCN	96	20.1
12	E14077	U03-300134 x E07051	Wang	PTIIA	F5	SCN	98	22.1
13	E14141	LG04-4468 x U02-242055	Wang	PTIIA	F5	SCN	96	20.8
14	E14148	LG05-2359 x U03-100612	Wang	PTIIA	F5	SCN	94	20.3
15	E14309	E07051 x E11358	Wang	PTIIA	F5	SCN	96	22.1
16	E14314	E07051 x E11358	Wang	PTIIA	F5	SCN	86	22.3
17	HM13-W156		McHale	PTIIA	F4		97	17.3
18	LD12-459	LD02- 4485 x LD06-7620	Diers	SCNUII	F5	SCN	92	14.4
19	LD13-1429	LD07-3395 x NE0900094	Diers	SCNPII	F5	SCN	90	17.0
20	LD13-4902a	LD08-12446a x Dairyland 75467	Diers	PTIIA	F5	Rag 2	90	15.3
21	LD13-5131a	LD08-3936 x LD09-13023a	Diers	SCNPII	F5	SCN, Aphid Rag 2	94	15.0
22	LD13-5290a	LD09-30224 x LD08-12438a	Diers	SCNPIII	F5	SCN, Aphid Rag 1+2	84	14.2
23	LD13-6678	LD07-3395 x NE0900094	Diers	SCNPII	F5	SCN	96	16.9
24	MSC09-777143	IA2073 x PI438489B	Lorenz	SCNUII	F5	SCN	98	14.1
25	MSC10-578025	DS-880 X Sheyenne	Lorenz	SCNPI	F5	SCN	91	14.6
26	ORC 8715	SC 4009 x SC 2407	Eskandari	PTIIB	F5		93	23.0
27	U13-603120	U09-323109 x U09-312115	Graef	1	F5	Rps 1k	99	14.7
28	U13-604147	U09-323109 x U09-312115	Graef	1	F5	Rps	99	15.1
29	U13-609144	U09-312115 x U03-260216	Graef	1	F5	Rps	99	14.4
30	U14-222063	06NB204846 x LG07-9721	Graef	PTI	F5	Diversity	99	17.5
31	U14-910097	U09-105007 x LD07-3419	Graef	PTIIB	F5	Rps, SCN	99	14.9
32	U14-915126	U09-215057 x U09-126009	Graef	PTIIB	F5	Rps, Dt, SCN?	96	16.6
33	U14-919098	U09-105007 x U09-215057	Graef	PTIIB	F5	Rps, Dt	99	17.0
34	U14-923097	U09-105007 x U09-317120	Graef	PTIIB	F5	Rps	99	15.3
35	U14-925152	U11-935093 x LD07-3419	Graef	PTIIB	F5	IDC, SCN	99	15.5

UNIFORM TEST II, 2017
DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	IDC
		Score
		Danvers
IA2102 (II)	WGTDYYI	2.8
IA1022 (SCN)	PGTSYYI	3.3
LD02-4485 (SCN)	PGGDYBfI	1.3
U11-920017	WGTIYBrI	1.3
AR14-247080	PTBDYBrI	3.3
DSN11-12073	WTTIYBrI	3.0
DSN11-12119	PGBDYLbfI	2.0
E12042	WTBIYBI	1.8
E13100	WGTSYYI	4.3
E13268	PTBSYBI	2.3
E13370	WTBIYBI	2.5
E14077	PTBSYBI	3.5
E14141	WTTDYBI	2.5
E14148	PGBDYDibI	2.5
E14309	WGBIYBfI	2.8
E14314	WGTSYLbfI	2.3
HM13-W156	PTTSYBI	4.0
LD12-459	PGTDYDibI	2.8
LD13-1429	WLtBSYBI	3.8
LD13-4902a	PGTDYLbfI	2.5
LD13-5131a	PGTIYDibI	2.0
LD13-5290a	PGTDYDibI	1.8
LD13-6678	PLtBIYBI	3.0
MSC09-777143	WGGSYBfI	2.3
MSC10-578025	PTBDYBI	3.5
ORC 8715	WGTIYYI	2.5
U13-603120	PTBSYBI	2.8
U13-604147	PTBSYBI	3.3
U13-609144	PTBIYBI	3.5
U14-222063	P+WTBIYBI	2.8
U14-910097	PGTSYBfI	3.3
U14-915126	P+WGTIYDibI	2.0
U14-919098	PGTSYLbfI	3.3
U14-923097	PTBIYBI	3.3
U14-925152	PGBIYBf+BI	3.5

UNIFORM TEST II, 2017

REGIONAL SUMMARY

No. of Tests Strain	Yield 13 bu/a	Rank 13 No.	Maturity 12 Date	Lodging 13 Score	Plant Height 13 In.	Seed Size 12 g/100	Seed Quality 12 Score	Composition	
								Protein 9 %	Oil 9 %
IA2102 (II)	66.8	19	9/24	1.8	35	17.1	1.4	33.4	18.7
IA1022 (SCN)	53.8	35	-3.0	1.5	31	16.6	1.2	31.3	20.3
LD02-4485 (SCN)	66.2	22	1.2	1.6	34	16.3	1.2	31.6	19.2
U11-920017	69.9	3	2.2	1.5	33	18.4	1.3	31.8	19.4
AR14-247080	66.4	20	4.8	2.4	43	15.7	1.2	34.3	18.1
DSN11-12073	69.7	6	1.4	1.5	33	17.5	1.0	33.5	18.7
DSN11-12119	68.7	12	2.9	1.7	35	15.8	1.0	32.6	18.6
E12042	67.3	16	1.1	2.4	38	16.1	1.1	32.7	19.3
E13100	60.6	33	-0.7	1.6	35	19.8	1.4	33.1	19.5
E13268	65.7	24	-6.4	1.5	32	16.2	1.2	32.6	19.3
E13370	67.9	13	-0.8	1.7	34	16.2	1.3	33.6	18.3
E14077	69.9	3	1.6	1.5	36	18.2	1.0	33.3	19.2
E14141	61.5	32	-4.8	1.5	34	17.7	1.0	34.3	18.7
E14148	65.6	25	3.0	1.8	37	16.4	1.2	33.1	19.4
E14309	63.8	28	4.6	2.0	36	17.5	1.3	32.7	18.3
E14314	61.8	31	1.0	1.6	32	18.4	1.3	32.9	19.3
HM13-W156	62.5	29	3.1	1.7	34	18.0	1.1	34.9	17.9
LD12-459	69.6	7	4.2	1.6	34	15.6	1.4	33.3	18.7
LD13-1429	67.0	17	1.5	1.4	31	18.6	1.1	34.1	18.7
LD13-4902a	67.8	14	0.8	1.4	32	17.0	1.3	32.4	19.3
LD13-5131a	65.6	25	-0.8	1.6	32	16.8	1.3	33.4	18.6
LD13-5290a	67.8	14	5.1	1.5	35	15.9	1.1	32.7	19.2
LD13-6678	69.9	3	2.3	1.5	33	18.2	1.1	33.2	19.1
MSC09-777143	65.3	27	2.3	1.7	33	15.8	1.4	31.5	20.2
MSC10-578025	62.1	30	-1.1	1.4	33	18.2	1.1	34.0	19.0
ORC 8715	56.8	34	-1.9	1.8	34	19.3	1.3	34.2	18.1
U13-603120	71.9	2	4.6	1.5	37	15.6	1.4	33.4	19.0
U13-604147	68.9	10	3.9	1.5	36	15.1	1.1	33.2	19.3
U13-609144	69.6	7	2.9	1.7	36	14.6	1.1	31.9	19.6
U14-222063	66.1	23	1.8	1.5	35	17.6	1.0	33.2	18.7
U14-910097	72.6	1	5.0	1.8	33	16.6	1.3	32.4	19.8
U14-915126	69.1	9	1.1	1.5	35	16.8	1.1	31.7	19.9
U14-919098	68.9	10	2.1	1.6	37	17.3	1.1	32.8	19.6
U14-923097	66.4	20	2.9	1.6	35	15.4	1.1	32.2	19.5
U14-925152	67.0	17	3.7	1.5	33	16.5	1.2	33.1	19.5
Mean	65.4		25.4	1.6	34.0	16.8	1.1		
C.V. (%)	11.5		10.1	25.6	8.2	5.6	26.3		
L.S.D. (5%)	3.1		1.1	0.2	1.2	0.5	0.2		

124.0 Days After Planting

UNIFORM TEST II, 2017

2016-2017 2-YEAR MEAN

No. of Tests Strain	Yield 28 bu/a	Rank 28 No.	Maturity 26 Date	Lodging 27 Score	Plant Height 26 In.	Seed Size 25 g/100	Seed Quality 24 Score	Composition	
								Protein 17 %	Oil 17 %
IA2102 (II)	67.5	7	9/24	2.3	36	17.2	1.5	34.2	18.8
IA1022 (SCN)	58.1	12	-2.9	1.8	33	16.6	1.4	32.4	20.4
LD02-4485 (SCN)	67.6	6	1.2	1.8	36	16.0	1.5	32.4	19.3
U11-920017	69.4	3	2.1	1.6	34	18.3	1.6	32.6	19.7
E12042	68.3	5	1.9	2.8	39	16.0	1.4	33.4	19.4
E13100	63.0	11	-0.5	1.8	37	19.7	1.7	34.1	19.7
E13268	66.5	9	-4.7	1.7	33	16.1	1.5	33.2	19.3
E13370	66.6	8	-0.6	2.0	35	16.0	1.5	34.5	18.4
MSC09-777143	65.7	10	1.7	1.9	34	15.8	1.8	32.2	20.2
U13-603120	70.3	1	4.1	1.6	39	15.3	1.4	33.7	19.1
U13-604147	68.6	4	3.4	1.6	37	15.0	1.3	33.7	19.4
U13-609144	69.5	2	2.8	2.0	37	14.7	1.3	32.6	19.8

124.3 Days After Planting

2015-2017 3-YEAR MEAN

No. of Tests Strain	41	41	40	41	39	35	34	27	27
IA2102 (II)	68.0	3	9/24	2.3	35	17.1	1.6	33.4	18.7
IA1022 (SCN)	59.5	5	-3.6	1.7	32	16.6	1.5	31.3	20.3
LD02-4485 (SCN)	67.1	4	0.5	1.8	35	15.8	1.6	31.6	19.2
U11-920017	70.5	1	1.6	1.6	33	18.4	1.6	31.8	19.4
E12042	68.1	2	2.5	2.5	37	15.5	1.4	32.7	19.3

124.8 Days After Planting

UNIFORM TEST II, 2017

YIELD (bu/a)

Strain	Mean 13 Tests	Ames IA	Pontiac IL	Urbana IL	Wanatah IN	West Lafayette IN
IA2102 (II)	66.8	67.1	88.0	68.9	63.9	56.6
IA1022 (SCN)	53.8	63.0	64.8	49.0	62.5	50.8
LD02-4485 (SCN)	66.2	73.4	80.9	69.1	62.4	63.8
U11-920017	69.9	66.2	85.6	73.1	61.6	66.6
AR14-247080	66.4	68.3	84.3	61.8	59.7	58.1
DSN11-12073	69.7	70.8	85.0	73.6	61.3	62.1
DSN11-12119	68.7	70.7	87.3	78.8	49.3	63.9
E12042	67.3	53.6	85.3	68.9	60.2	55.3
E13100	60.6	61.9	79.2	62.9	60.5	58.2
E13268	65.7	70.0	76.6	55.6	65.4	65.4
E13370	67.9	76.2	80.8	66.2	52.9	61.3
E14077	69.9	78.5	87.8	71.6	64.9	65.0
E14141	61.5	68.7	75.5	59.3	58.2	61.1
E14148	65.6	73.0	92.9	71.9	52.2	57.3
E14309	63.8	53.6	81.4	68.4	49.5	59.3
E14314	61.8	61.9	78.4	60.6	56.7	63.2
HM13-W156	62.5	58.2	76.5	65.8	52.2	60.0
LD12-459	69.6	78.7	82.5	71.7	65.8	68.6
LD13-1429	67.0	76.2	87.4	67.9	60.4	66.8
LD13-4902a	67.8	62.7	83.9	69.6	63.7	66.4
LD13-5131a	65.6	71.4	80.1	68.4	59.0	57.4
LD13-5290a	67.8	65.4	90.3	71.4	58.2	65.1
LD13-6678	69.9	71.2	89.4	73.0	59.7	66.4
MSC09-777143	65.3	65.2	76.2	66.2	61.2	64.9
MSC10-578025	62.1	68.3	76.2	55.8	61.2	55.8
ORC 8715	56.8	62.0	64.3	57.6	55.9	57.2
U13-603120	71.9	61.1	86.2	75.8	63.0	72.0
U13-604147	68.9	56.9	80.9	66.8	59.2	66.6
U13-609144	69.6	69.1	85.3	65.7	58.6	61.3
U14-222063	66.1	67.5	82.1	67.3	57.9	65.8
U14-910097	72.6	65.1	86.3	79.7	59.5	64.4
U14-915126	69.1	63.1	88.7	67.6	62.3	63.9
U14-919098	68.9	65.7	87.9	66.1	56.4	59.1
U14-923097	66.4	53.8	83.3	54.9	55.2	62.4
U14-925152	67.0	62.1	89.0	72.2	61.7	65.4
Location Mean		66.3	82.6	66.9	59.2	62.2
C.V. (%)		9.6	5.5	4.2	6.4	5.9
L.S.D. (5%)		15.6	9.3	5.7	5.1	5.1
Row Sp. (In.)		30	30	30	30	30
Rows/Plot		4	4	4	4	4
Reps		2	2	2	3	3

UNIFORM TEST II, 2017

YIELD (bu/a)

Strain	East				
	Britton MI	Lansing MI	Lamberton* MN	Waseca MN	Cotesfield NE
IA2102 (II)	56.3	45.9	60.9	67.8	85.1
IA1022 (SCN)	46.5	39.6	37.8	56.7	73.0
LD02-4485 (SCN)	55.7	50.8	57.9	66.5	83.1
U11-920017	55.2	47.8	51.0	74.6	92.7
AR14-247080	50.2	49.0	50.5	68.2	86.1
DSN11-12073	58.0	54.1	50.6	71.5	93.5
DSN11-12119	53.5	51.7	48.6	70.3	93.4
E12042	62.8	46.8	50.6	69.5	97.0
E13100	46.5	33.2	54.5	63.7	67.7
E13268	57.6	51.9	58.6	70.7	92.0
E13370	59.4	49.4	48.6	66.4	92.5
E14077	61.6	51.8	47.5	64.8	83.3
E14141	48.8	40.4	33.1	63.7	89.7
E14148	60.2	46.3	50.8	59.4	84.9
E14309	53.3	38.8	47.4	63.8	86.9
E14314	48.7	35.4	51.4	66.1	79.7
HM13-W156	46.6	42.2	43.3	53.0	82.6
LD12-459	57.3	58.5	59.7	67.6	90.7
LD13-1429	52.6	57.7	53.7	62.7	81.8
LD13-4902a	52.4	53.9	51.8	66.9	87.8
LD13-5131a	58.2	46.6	53.2	63.6	85.2
LD13-5290a	48.0	52.3	48.9	57.8	92.0
LD13-6678	61.3	46.5	57.1	71.4	92.2
MSC09-777143	60.2	52.2	42.6	62.3	80.9
MSC10-578025	42.1	51.6	46.9	63.3	81.1
ORC 8715	53.9	45.9	41.6	55.2	82.6
U13-603120	57.8	61.5	45.6	62.8	85.3
U13-604147	61.1	51.6	46.8	58.9	96.5
U13-609144	57.5	54.2	53.6	65.8	95.4
U14-222063	57.6	41.1	38.3	64.0	86.2
U14-910097	73.0	46.8	57.7	67.1	92.0
U14-915126	52.1	58.3	56.1	65.5	98.0
U14-919098	51.3	58.9	41.5	58.2	93.9
U14-923097	58.5	49.8	48.0	67.5	95.0
U14-925152	53.4	42.3	52.3	58.6	85.1
Location Mean	55.1	48.7	49.7	64.5	87.6
C.V. (%)	10.0	13.7	17.7	9.8	6.8
L.S.D. (5%)	13.4	16.3	14.4	10.4	12.1
Row Sp. (In.)	15.0	30	30	30	30
Rows/Plot	6.0	4	4	4	4
Reps	2.0	2	3	3	2

*Data not included in the mean.

UNIFORM TEST II, 2017

YIELD (bu/a)

Strain	Phillips NE	Hoytville OH	Wooster OH	Chatham ONT
IA2102 (II)	87.3	55.4	48.6	78.1
IA1022 (SCN)	51.6	52.2	20.2	69.4
LD02-4485 (SCN)	74.6	58.5	43.7	77.8
U11-920017	97.9	64.4	54.2	69.1
AR14-247080	94.6	60.5	47.2	75.7
DSN11-12073	88.4	65.6	42.7	79.7
DSN11-12119	94.7	56.0	47.7	76.4
E12042	79.0	66.3	59.0	71.6
E13100	62.2	56.3	45.3	90.3
E13268	59.7	62.3	46.4	80.7
E13370	84.4	67.5	49.8	75.5
E14077	91.4	64.6	42.0	81.8
E14141	59.2	47.5	54.1	72.8
E14148	81.2	56.4	38.8	78.5
E14309	85.5	66.9	50.0	72.1
E14314	79.6	58.4	41.2	73.2
HM13-W156	88.4	61.5	54.0	72.1
LD12-459	92.5	55.8	37.2	78.0
LD13-1429	82.1	53.4	45.3	77.0
LD13-4902a	89.6	61.7	44.9	78.0
LD13-5131a	79.4	64.9	37.3	80.7
LD13-5290a	101.5	55.9	48.1	75.4
LD13-6678	84.3	61.8	55.0	76.9
MSC09-777143	83.3	50.9	45.8	79.2
MSC10-578025	80.7	63.3	31.7	75.7
ORC 8715	47.8	51.7	34.3	69.5
U13-603120	104.3	72.2	50.2	82.8
U13-604147	99.8	73.3	47.6	76.8
U13-609144	104.4	69.1	47.0	71.7
U14-222063	84.7	60.8	50.3	74.4
U14-910097	100.3	73.2	50.6	85.7
U14-915126	92.1	69.7	43.2	73.7
U14-919098	98.1	65.1	54.7	80.2
U14-923097	95.4	61.3	49.7	76.4
U14-925152	86.5	59.4	55.3	79.8
Location Mean	84.8	61.2	46.1	76.8
C.V. (%)	11.5	11.7	10.6	5.6
L.S.D. (5%)	19.8	14.0	12.8	6.9
Row Sp. (In.)	30	7.5	7.5	17
Rows/Plot	4	8	8	5
Reps	2	3	3	3

UNIFORM TEST II, 2017

YIELD RANK

Strain	Yield Rank	Ames IA	Pontiac IL	Urbana IL	Wanatah IN	West Lafayette IN
IA2102 (II)	19	17	6	14	4	32
IA1022 (SCN)	35	24	34	35	7	35
LD02-4485 (SCN)	22	5	23	13	8	17
U11-920017	3	18	13	5	11	4
AR14-247080	20	15	17	28	18	28
DSN11-12073	6	9	16	4	12	20
DSN11-12119	12	10	10	2	35	15
E12042	16	30	14	14	17	34
E13100	33	4	27	27	15	27
E13268	24	11	29	33	2	9
E13370	13	32	25	22	31	21
E14077	3	2	8	10	3	12
E14141	32	13	33	30	24	23
E14148	25	6	1	8	32	30
E14309	28	35	22	16	34	25
E14314	31	28	28	29	27	18
HM13-W156	29	31	30	25	32	24
LD12-459	7	1	20	9	1	2
LD13-1429	17	3	9	18	16	3
LD13-4902a	14	25	18	12	5	6
LD13-5131a	25	7	26	16	22	29
LD13-5290a	14	20	2	11	24	11
LD13-6678	3	8	3	6	18	6
MSC09-777143	27	21	31	22	13	13
MSC10-578025	30	14	31	32	13	33
ORC 8715	34	27	35	31	29	31
U13-603120	2	29	12	3	6	1
U13-604147	10	33	23	21	21	4
U13-609144	7	12	14	26	23	21
U14-222063	23	16	21	20	26	8
U14-910097	1	22	11	1	20	14
U14-915126	9	23	5	19	9	15
U14-919098	10	19	7	24	28	26
U14-923097	20	34	19	34	30	19
U14-925152	17	26	4	7	10	9

UNIFORM TEST II, 2017

YIELD RANK

Strain	East				
	Britton MI	Lansing MI	Lamberton MN	Waseca MN	Cotesfield NE
IA2102 (II)	17	27	1	8	24
IA1022 (SCN)	33	32	34	33	34
LD02-4485 (SCN)	18	16	4	13	27
U11-920017	19	20	15	1	9
AR14-247080	28	19	19	7	20
DSN11-12073	11	7	17	2	7
DSN11-12119	21	13	22	5	8
E12042	2	21	18	6	2
E13100	34	35	8	21	35
E13268	13	11	3	4	14
E13370	8	18	21	14	10
E14077	3	12	24	18	26
E14141	29	31	35	22	16
E14148	7	25	16	28	25
E14309	23	33	25	20	18
E14314	30	34	14	15	33
HM13-W156	32	29	29	35	28
LD12-459	16	3	2	9	15
LD13-1429	24	5	9	26	30
LD13-4902a	25	8	13	12	17
LD13-5131a	10	23	11	23	22
LD13-5290a	31	9	20	32	12
LD13-6678	4	24	6	3	11
MSC09-777143	6	10	30	27	32
MSC10-578025	35	14	26	24	31
ORC 8715	20	26	31	34	29
U13-603120	12	1	28	25	21
U13-604147	5	15	27	29	3
U13-609144	15	6	10	16	4
U14-222063	14	30	33	19	19
U14-910097	1	22	5	11	13
U14-915126	26	4	7	17	1
U14-919098	27	2	32	31	6
U14-923097	9	17	23	10	5
U14-925152	22	28	12	30	23

UNIFORM TEST II, 2017

YIELD RANK

Strain	Phillips NE	Hoytville OH	Wooster OH	Chatham ONT
IA2102 (II)	17	30	14	12
IA1022 (SCN)	34	32	34	33
LD02-4485 (SCN)	30	23	24	15
U11-920017	7	13	5	34
AR14-247080	10	21	18	21
DSN11-12073	15	9	26	9
DSN11-12119	9	27	16	20
E12042	29	8	1	32
E13100	31	26	22	1
E13268	32	15	20	6
E13370	21	6	12	23
E14077	13	12	27	4
E14141	33	35	6	28
E14148	25	25	29	11
E14309	19	7	11	30
E14314	27	24	28	27
HM13-W156	16	18	7	29
LD12-459	11	29	31	13
LD13-1429	24	31	22	16
LD13-4902a	14	17	23	14
LD13-5131a	28	11	30	5
LD13-5290a	3	28	15	24
LD13-6678	22	16	3	17
MSC09-777143	23	34	21	10
MSC10-578025	26	14	33	22
ORC 8715	35	33	32	35
U13-603120	2	3	10	3
U13-604147	5	1	17	18
U13-609144	1	5	19	31
U14-222063	20	20	9	25
U14-910097	4	2	8	2
U14-915126	12	4	25	26
U14-919098	6	10	4	7
U14-923097	8	19	13	19
U14-925152	18	22	2	8

UNIFORM TEST II, 2017

MATURITY (date)

Strain	Mean 12 Tests	Ames IA	Pontiac IL	Urbana IL	Wanatah IN	West Lafayette IN
IA2102 (II)	9/24	9/16	9/19	9/13	9/23	9/25
IA1022 (SCN)	-3	-5	-6	-3	0	-2
LD02-4485 (SCN)	1	-1	1	2	9	1
U11-920017	2	5	1	3	2	2
AR14-247080	5	7	8	8	9	4
DSN11-12073	1	-2	2	2	10	2
DSN11-12119	3	3	3	3	5	3
E12042	1	0	2	1	1	3
E13100	-1	-1	-4	-3	3	2
E13268	-6	-5	-9	-8	-1	-1
E13370	-1	-1	-3	0	2	1
E14077	2	5	3	3	5	3
E14141	-5	-4	-7	-5	2	0
E14148	3	4	2	4	5	1
E14309	5	6	6	8	3	4
E14314	1	-1	2	5	3	4
HM13-W156	3	2	2	5	5	5
LD12-459	4	6	6	4	3	3
LD13-1429	2	1	1	5	5	3
LD13-4902a	1	4	1	4	3	1
LD13-5131a	-1	0	1	5	2	0
LD13-5290a	5	5	5	7	5	5
LD13-6678	2	-1	2	6	5	3
MSC09-777143	2	3	2	4	2	2
MSC10-578025	-1	-1	-3	-2	3	-1
ORC 8715	-2	-2	-5	-6	-1	2
U13-603120	5	4	7	7	6	4
U13-604147	4	6	5	7	7	2
U13-609144	3	2	5	5	3	3
U14-222063	2	5	2	6	3	3
U14-910097	5	5	8	8	5	1
U14-915126	1	1	1	4	3	1
U14-919098	2	1	2	2	2	2
U14-923097	3	5	4	4	6	3
U14-925152	4	5	3	6	10	3
Date Planted	5/23	5/9	5/17	5/16	5/30	6/2
Days to Mature	124	130	125	120	116	115

UNIFORM TEST II, 2017

MATURITY (date)

Strain	Britton MI	East Lansing MI	Lamberton MN	Waseca MN	Cotesfield NE
IA2102 (II)		9/29	10/11	10/5	
IA1022 (SCN)		-2	-9	-4	
LD02-4485 (SCN)		1	-0	4	
U11-920017		3	2	4	
AR14-247080		5	5	9	
DSN11-12073		2	-3	1	
DSN11-12119		1	1	4	
E12042		2	-1	4	
E13100		1	-6	-3	
E13268		-6	-13	-11	
E13370		3	-6	-2	
E14077		3	-2	-1	
E14141		-4	-12	-7	
E14148		4	2	3	
E14309		5	1	10	
E14314		0	-1	-1	
HM13-W156		5	0	6	
LD12-459		3	3	7	
LD13-1429		3	-4	-3	
LD13-4902a		1	-2	-1	
LD13-5131a		-2	-9	-2	
LD13-5290a		5	3	13	
LD13-6678		3	1	4	
MSC09-777143		2	3	8	
MSC10-578025		1	-8	-3	
ORC 8715		-2	-6	-0	
U13-603120		5	3	8	
U13-604147		3	4	6	
U13-609144		2	-1	6	
U14-222063		2	1	-3	
U14-910097		2	3	8	
U14-915126		3	-4	2	
U14-919098		4	0	7	
U14-923097		3	1	2	
U14-925152		1	3	6	
Date Planted		6/2	5/15	5/31	
Days to Mature		119	149	127	

UNIFORM TEST II, 2017

MATURITY (date)

Strain	Phillips NE	Hoytville OH	Wooster OH	Chatham ONT
IA2102 (II)	9/15	9/25	9/22	9/30
IA1022 (SCN)	-1	0	-1	-4
LD02-4485 (SCN)	-1	1	-1	-1
U11-920017	3	0	0	1
AR14-247080	6	-5	1	2
DSN11-12073	2	0	0	1
DSN11-12119	3	1	0	7
E12042	4	-3	-2	4
E13100	-3	1	-3	7
E13268	-6	3	-10	-11
E13370	0	1	-1	-3
E14077	0	3	-1	-1
E14141	-4	1	-9	-9
E14148	0	2	1	7
E14309	4	2	1	5
E14314	0	1	0	-0
HM13-W156	2	7	0	-2
LD12-459	1	5	2	7
LD13-1429	1	1	1	5
LD13-4902a	0	-1	0	-1
LD13-5131a	-1	-1	-1	-2
LD13-5290a	3	5	2	3
LD13-6678	2	3	1	0
MSC09-777143	1	3	0	-1
MSC10-578025	0	2	0	-2
ORC 8715	-3	5	-3	-2
U13-603120	6	2	3	0
U13-604147	3	2	3	-1
U13-609144	5	4	2	0
U14-222063	1	4	0	-2
U14-910097	5	5	5	6
U14-915126	2	2	0	-2
U14-919098	3	2	-1	1
U14-923097	5	4	1	-3
U14-925152	2	4	1	0
Date Planted	5/15	6/1	5/19	5/31
Days to Mature	123	116	126	122

UNIFORM TEST II, 2017

LODGING (score)

Strain	Mean 13 Tests	Ames IA	Pontiac IL	Urbana IL	Wanatah IN	West Lafayette IN
IA2102 (II)	1.8	2.0	3.3	1.8	1.0	2.7
IA1022 (SCN)	1.5	2.0	2.3	1.0	1.0	1.3
LD02-4485 (SCN)	1.6	2.0	2.3	1.3	1.0	1.8
U11-920017	1.5	2.3	1.8	1.0	1.0	1.3
AR14-247080	2.4	3.5	3.8	2.8	2.2	2.5
DSN11-12073	1.5	1.8	2.0	1.0	1.0	1.5
DSN11-12119	1.7	2.5	2.3	1.8	1.3	2.2
E12042	2.4	3.0	2.8	3.0	2.0	4.2
E13100	1.6	2.0	2.5	1.3	1.0	2.0
E13268	1.5	2.0	1.3	1.0	1.0	2.3
E13370	1.7	2.0	2.5	1.5	1.0	2.8
E14077	1.5	2.0	1.8	1.0	1.3	1.7
E14141	1.5	2.0	1.8	1.3	1.0	1.7
E14148	1.8	2.5	2.8	1.3	1.5	2.3
E14309	2.0	2.3	3.0	2.3	1.3	3.5
E14314	1.6	2.5	1.8	1.0	1.0	1.7
HM13-W156	1.7	2.3	2.0	1.8	1.5	2.3
LD12-459	1.6	2.3	2.8	1.0	1.5	1.3
LD13-1429	1.4	2.0	1.8	1.0	1.5	1.0
LD13-4902a	1.4	1.8	1.8	1.3	1.5	1.0
LD13-5131a	1.6	1.8	2.0	1.0	1.5	2.5
LD13-5290a	1.5	2.0	1.8	1.0	1.5	1.5
LD13-6678	1.5	2.0	2.0	1.0	1.5	1.3
MSC09-777143	1.7	2.3	2.5	1.3	1.5	2.5
MSC10-578025	1.4	2.0	1.8	1.0	1.0	1.2
ORC 8715	1.8	2.5	2.5	1.8	1.0	2.5
U13-603120	1.5	2.3	2.0	1.3	1.5	1.3
U13-604147	1.5	1.5	2.0	1.0	1.5	2.0
U13-609144	1.7	1.8	2.0	1.3	1.5	3.0
U14-222063	1.5	1.5	1.3	1.0	1.5	1.7
U14-910097	1.8	2.0	3.0	1.3	1.2	2.7
U14-915126	1.5	1.5	1.3	1.0	1.5	3.3
U14-919098	1.6	1.5	1.3	1.0	1.5	3.8
U14-923097	1.6	2.0	2.0	1.0	1.5	2.8
U14-925152	1.5	1.8	2.0	1.0	1.2	1.8

UNIFORM TEST II, 2017

LODGING (score)

Strain	Britton MI	East Lansing MI	Lamberton MN	Waseca MN	Cotesfield NE
IA2102 (II)	1.0	1.0	2.3	4.0	
IA1022 (SCN)	1.0	1.0	2.0	3.0	
LD02-4485 (SCN)	1.0	1.0	2.3	3.3	
U11-920017	1.0	1.0	1.7	3.3	
AR14-247080	1.0	2.0	3.7	4.0	
DSN11-12073	1.0	1.0	1.7	3.0	
DSN11-12119	1.0	1.5	2.0	3.3	
E12042	1.0	2.5	3.0	4.0	
E13100	1.0	1.0	2.0	3.7	
E13268	1.0	1.0	2.0	3.0	
E13370	1.0	1.0	2.3	3.0	
E14077	1.0	1.0	2.0	3.0	
E14141	1.0	1.0	1.3	3.0	
E14148	1.0	1.0	2.7	3.7	
E14309	1.0	1.0	2.3	4.0	
E14314	1.0	1.0	2.0	3.3	
HM13-W156	1.0	1.0	1.7	4.0	
LD12-459	1.0	1.0	2.0	3.7	
LD13-1429	1.0	1.0	2.0	2.7	
LD13-4902a	1.0	1.0	1.7	2.7	
LD13-5131a	1.0	1.0	2.0	2.7	
LD13-5290a	1.0	1.0	1.7	3.3	
LD13-6678	1.0	1.0	2.0	2.7	
MSC09-777143	1.0	1.0	2.0	3.3	
MSC10-578025	1.0	1.0	2.0	3.0	
ORC 8715	1.0	1.5	1.7	3.7	
U13-603120	1.0	1.0	1.7	3.3	
U13-604147	1.0	1.0	2.0	3.0	
U13-609144	1.0	1.0	2.0	4.0	
U14-222063	1.0	1.0	2.0	3.0	
U14-910097	1.0	1.0	2.3	3.7	
U14-915126	1.0	1.0	1.7	3.0	
U14-919098	1.0	1.0	1.7	3.3	
U14-923097	1.0	1.0	1.7	3.3	
U14-925152	1.0	1.0	1.7	3.7	

UNIFORM TEST II, 2017

LODGING (score)

Strain	Phillips NE	Hoytville OH	Wooster OH	Chatham ONT
IA2102 (II)	2.0	1.0	1.0	1.0
IA1022 (SCN)	2.0	1.0	1.0	1.0
LD02-4485 (SCN)	2.0	1.0	1.0	1.0
U11-920017	2.0	1.0	1.0	1.0
AR14-247080	3.0	1.0	1.0	1.0
DSN11-12073	2.0	1.0	1.0	1.0
DSN11-12119	1.5	1.0	1.0	1.0
E12042	3.0	1.0	1.0	1.0
E13100	1.5	1.0	1.0	1.0
E13268	2.0	1.0	1.0	1.0
E13370	2.5	1.0	1.0	1.0
E14077	1.5	1.0	1.0	1.0
E14141	2.0	1.0	1.0	1.0
E14148	1.5	1.0	1.0	1.0
E14309	2.0	1.0	1.0	1.0
E14314	2.0	1.0	1.0	1.0
HM13-W156	2.0	1.0	1.0	1.0
LD12-459	1.5	1.0	1.0	1.0
LD13-1429	1.0	1.0	1.0	1.0
LD13-4902a	1.0	1.0	1.0	1.0
LD13-5131a	2.0	1.0	1.0	1.0
LD13-5290a	1.5	1.0	1.0	1.0
LD13-6678	1.5	1.0	1.0	1.0
MSC09-777143	2.0	1.0	1.0	1.0
MSC10-578025	1.5	1.0	1.0	1.0
ORC 8715	2.0	1.0	1.0	1.0
U13-603120	1.5	1.0	1.0	1.0
U13-604147	1.0	1.0	1.0	1.0
U13-609144	2.0	1.0	1.0	1.0
U14-222063	2.0	1.0	1.0	1.0
U14-910097	2.0	1.0	1.0	1.0
U14-915126	1.0	1.0	1.0	1.0
U14-919098	1.5	1.0	1.0	1.0
U14-923097	1.5	1.0	1.0	1.0
U14-925152	1.5	1.0	1.0	1.0

UNIFORM TEST II, 2017

PLANT HEIGHT (inches)

Strain	Mean 13 Tests	Ames IA	Pontiac IL	Urbana IL	Wanatah IN	West Lafayette IN
IA2102 (II)	35	37	36	39	32	33
IA1022 (SCN)	31	34	36	33	32	27
LD02-4485 (SCN)	34	39	36	36	36	34
U11-920017	33	38	37	35	30	30
AR14-247080	43	55	41	45	45	41
DSN11-12073	33	35	36	36	32	29
DSN11-12119	35	39	39	41	31	31
E12042	38	40	40	41	31	39
E13100	35	37	36	36	33	36
E13268	32	33	36	32	32	34
E13370	34	36	37	34	35	32
E14077	36	43	43	39	34	32
E14141	34	38	35	33	33	30
E14148	37	42	41	40	36	35
E14309	36	39	38	40	34	35
E14314	32	35	34	32	30	29
HM13-W156	34	39	37	38	33	34
LD12-459	34	39	37	37	35	32
LD13-1429	31	36	36	34	30	29
LD13-4902a	32	35	36	36	33	29
LD13-5131a	32	34	36	35	36	33
LD13-5290a	35	36	39	36	37	34
LD13-6678	33	36	37	38	33	30
MSC09-777143	33	34	34	35	37	33
MSC10-578025	33	37	36	35	35	31
ORC 8715	34	36	37	34	32	32
U13-603120	37	44	40	44	37	37
U13-604147	36	38	38	37	33	35
U13-609144	36	41	38	40	34	37
U14-222063	35	41	37	35	36	33
U14-910097	33	36	37	37	34	31
U14-915126	35	37	39	37	36	33
U14-919098	37	40	39	41	39	32
U14-923097	35	38	37	38	38	34
U14-925152	33	33	41	37	35	32

UNIFORM TEST II, 2017

PLANT HEIGHT (inches)

Strain	East				
	Britton MI	Lansing MI	Lamberton MN	Waseca MN	Cotesfield NE
IA2102 (II)	34	34	36	43	
IA1022 (SCN)	29	31	30	38	
LD02-4485 (SCN)	30	35	35	44	
U11-920017	27	32	32	38	
AR14-247080	37	44	44	57	
DSN11-12073	31	31	34	40	
DSN11-12119	28	36	37	43	
E12042	36	42	39	47	
E13100	30	36	38	46	
E13268	31	32	34	40	
E13370	33	35	34	42	
E14077	28	40	39	44	
E14141	32	39	30	44	
E14148	32	37	38	46	
E14309	28	33	33	47	
E14314	28	30	35	42	
HM13-W156	30	32	33	40	
LD12-459	28	33	36	40	
LD13-1429	24	32	34	39	
LD13-4902a	27	32	34	37	
LD13-5131a	27	28	34	37	
LD13-5290a	33	34	37	44	
LD13-6678	27	30	36	39	
MSC09-777143	30	33	33	44	
MSC10-578025	29	31	34	38	
ORC 8715	32	37	35	43	
U13-603120	33	35	37	44	
U13-604147	33	38	40	45	
U13-609144	30	36	38	42	
U14-222063	32	37	36	41	
U14-910097	30	34	36	39	
U14-915126	28	34	36	45	
U14-919098	32	37	37	47	
U14-923097	28	32	36	44	
U14-925152	28	29	34	41	

UNIFORM TEST II, 2017

PLANT HEIGHT (inches)

Strain	Phillips NE	Hoytville OH	Wooster OH	Chatham ONT
IA2102 (II)	43	27	27	31
IA1022 (SCN)	36	23	23	32
LD02-4485 (SCN)	37	27	25	31
U11-920017	41	25	24	35
AR14-247080	58	28	33	38
DSN11-12073	37	27	23	35
DSN11-12119	41	26	25	37
E12042	47	29	28	37
E13100	41	26	25	35
E13268	38	24	24	33
E13370	44	25	24	34
E14077	44	25	24	36
E14141	37	29	21	37
E14148	46	27	27	35
E14309	53	27	27	35
E14314	40	26	24	35
HM13-W156	41	27	25	33
LD12-459	38	25	23	34
LD13-1429	37	22	21	33
LD13-4902a	39	23	23	31
LD13-5131a	39	25	25	33
LD13-5290a	44	23	27	33
LD13-6678	39	27	24	37
MSC09-777143	40	23	23	33
MSC10-578025	39	26	22	31
ORC 8715	40	28	26	36
U13-603120	47	27	26	32
U13-604147	45	28	26	35
U13-609144	45	27	25	33
U14-222063	46	25	25	35
U14-910097	38	25	24	33
U14-915126	42	27	27	33
U14-919098	44	28	27	37
U14-923097	41	25	26	37
U14-925152	39	24	25	33

UNIFORM TEST II, 2017

SEED SIZE (g/100)

Strain	Mean 12 Tests	Ames IA	Pontiac IL	Urbana IL	Wanatah IN	West Lafayette IN
IA2102 (II)	17.1	17.3	17.4	15.7	15.7	16.8
IA1022 (SCN)	16.6	15.8	15.2	14.2	14.7	15.8
LD02-4485 (SCN)	16.3	16.0	15.8	15.1	13.9	18.7
U11-920017	18.4	17.2	17.8	17.1	16.6	19.0
AR14-247080	15.7	15.5	15.3	14.6	13.1	18.1
DSN11-12073	17.5	17.3	17.9	16.2	17.8	14.5
DSN11-12119	15.8	15.7	15.9	14.9	13.5	18.1
E12042	16.1	15.9	15.1	15.0	13.0	15.9
E13100	19.8	21.1	19.8	18.6	17.5	16.5
E13268	16.2	17.1	15.3	13.8	15.3	14.7
E13370	16.2	16.3	15.0	13.9	14.4	17.1
E14077	18.2	18.1	17.4	16.6	16.1	16.2
E14141	17.7	17.2	17.7	16.0	16.3	18.4
E14148	16.4	16.7	16.6	15.5	14.3	19.4
E14309	17.5	16.3	17.8	15.9	14.5	14.8
E14314	18.4	17.9	18.7	17.3	16.3	15.2
HM13-W156	18.0	18.6	18.0	17.5	16.2	14.5
LD12-459	15.6	16.0	16.2	14.9	13.3	17.7
LD13-1429	18.6	19.4	19.4	17.6	17.5	15.8
LD13-4902a	17.0	17.2	16.6	15.9	14.9	17.0
LD13-5131a	16.8	17.1	16.6	15.1	15.9	17.1
LD13-5290a	15.9	15.4	15.2	15.3	13.4	14.9
LD13-6678	18.2	18.0	18.6	17.3	16.8	16.3
MSC09-777143	15.8	15.5	15.0	14.8	13.9	15.7
MSC10-578025	18.2	18.2	18.1	17.3	16.9	16.0
ORC 8715	19.3	20.3	18.2	18.0	17.6	18.0
U13-603120	15.6	12.5	15.0	14.8	14.0	16.3
U13-604147	15.1	13.5	14.8	12.7	14.2	15.9
U13-609144	14.6	13.2	14.2	12.9	12.5	16.4
U14-222063	17.6	17.1	18.2	16.8	15.5	15.8
U14-910097	16.6	15.8	16.0	15.1	13.9	16.0
U14-915126	16.8	15.9	16.5	15.3	14.6	16.1
U14-919098	17.3	17.5	17.2	15.2	15.6	15.7
U14-923097	15.4	14.7	14.8	12.3	13.9	15.8
U14-925152	16.5	15.7	15.9	15.2	15.3	16.1

UNIFORM TEST II, 2017

SEED SIZE (g/100)

Strain	Britton MI	East Lansing MI	Lamberton MN	Waseca MN	Cotesfield NE
IA2102 (II)			18.3	18.5	18.1
IA1022 (SCN)			18.8	17.2	17.4
LD02-4485 (SCN)			17.2	18.1	17.8
U11-920017			19.6	21.3	20.5
AR14-247080			15.7	16.5	16.4
DSN11-12073			18.4	19.2	18.6
DSN11-12119			16.4	15.7	17.0
E12042			17.2	17.2	18.6
E13100			22.1	22.3	22.0
E13268			16.8	18.3	16.8
E13370			16.9	17.2	17.9
E14077			19.7	20.7	19.4
E14141			18.1	19.0	19.6
E14148			17.9	10.3	17.6
E14309			19.1	20.4	19.2
E14314			20.3	20.0	20.3
HM13-W156			18.7	21.2	19.3
LD12-459			15.4	15.6	16.9
LD13-1429			20.4	21.4	20.4
LD13-4902a			18.0	17.5	18.8
LD13-5131a			18.0	18.6	17.2
LD13-5290a			17.3	17.9	16.5
LD13-6678			19.2	20.9	19.6
MSC09-777143			16.3	17.5	17.1
MSC10-578025			18.7	19.5	19.5
ORC 8715			20.6	22.3	19.7
U13-603120			17.0	17.7	17.0
U13-604147			16.6	16.7	15.9
U13-609144			15.2	16.5	15.4
U14-222063			18.6	19.2	20.2
U14-910097			18.3	18.4	17.9
U14-915126			17.2	19.5	19.9
U14-919098			17.9	19.8	20.1
U14-923097			16.0	18.4	17.1
U14-925152			17.2	18.9	17.4

UNIFORM TEST II, 2017

SEED SIZE (g/100)

Strain	Phillips NE	Hoytville OH	Wooster OH	Chatham ONT
IA2102 (II)	18.1	15.2	15.4	19.0
IA1022 (SCN)	18.6	16.5	17.5	18.1
LD02-4485 (SCN)	16.5	15.6	14.2	17.0
U11-920017	18.9	16.5	16.1	20.0
AR14-247080	15.2	15.2	14.6	17.9
DSN11-12073	17.5	17.4	15.8	19.4
DSN11-12119	15.8	14.8	14.9	17.2
E12042	17.1	15.3	14.5	17.9
E13100	20.3	18.6	17.3	21.8
E13268	16.6	16.0	14.4	19.0
E13370	16.9	16.3	14.1	18.2
E14077	18.1	17.3	18.2	20.4
E14141	18.4	16.9	16.5	18.6
E14148	16.4	16.3	16.5	19.8
E14309	18.0	18.2	16.4	18.9
E14314	20.2	17.1	16.0	21.5
HM13-W156	19.3	17.6	16.4	19.1
LD12-459	16.0	14.4	14.2	17.2
LD13-1429	18.4	17.6	15.4	20.4
LD13-4902a	17.7	16.2	15.1	19.0
LD13-5131a	16.4	15.7	14.2	19.7
LD13-5290a	16.3	16.4	14.9	16.9
LD13-6678	18.5	17.5	17.0	19.1
MSC09-777143	17.7	14.9	14.1	17.7
MSC10-578025	19.4	18.5	17.5	19.5
ORC 8715	18.8	19.6	18.0	20.5
U13-603120	15.4	16.1	14.8	16.1
U13-604147	15.5	15.1	14.5	15.7
U13-609144	15.0	14.6	13.1	16.4
U14-222063	18.7	16.0	15.8	19.4
U14-910097	16.0	16.3	16.0	19.2
U14-915126	17.1	16.0	15.1	17.9
U14-919098	18.0	16.7	15.9	18.3
U14-923097	15.4	14.3	15.2	16.8
U14-925152	15.5	16.4	15.1	19.0

UNIFORM TEST II, 2017

SEED QUALITY (score)

Strain	Mean 12 Tests	Ames IA	Pontiac IL	Urbana IL	Wanatah IN	West Lafayette IN
IA2102 (II)	1.4	1.0	2.0	2.0	1.0	1.0
IA1022 (SCN)	1.2	1.0	2.0	1.0	1.0	1.0
LD02-4485 (SCN)	1.2	2.0	2.0	1.0	1.0	1.0
U11-920017	1.3	1.0	2.0	2.0	1.0	1.0
AR14-247080	1.2	2.0	2.0	1.0	1.0	1.0
DSN11-12073	1.0	1.0	1.0	1.0	1.0	1.0
DSN11-12119	1.0	1.0	1.0	1.0	1.0	1.0
E12042	1.1	1.0	1.0	1.0	1.0	1.0
E13100	1.4	1.0	2.0	2.0	1.0	1.0
E13268	1.2	2.0	1.0	1.0	1.0	1.0
E13370	1.3	2.0	2.0	1.0	1.0	1.0
E14077	1.0	1.0	1.0	1.0	1.0	1.0
E14141	1.0	1.0	1.0	1.0	1.0	1.0
E14148	1.2	2.0	2.0	1.0	1.0	1.0
E14309	1.3	2.0	2.0	2.0	1.0	1.0
E14314	1.3	1.0	2.0	2.0	1.0	1.0
HM13-W156	1.1	1.0	2.0	1.0	1.0	1.0
LD12-459	1.4	2.0	2.0	2.0	1.0	1.0
LD13-1429	1.1	1.0	2.0	1.0	1.0	1.0
LD13-4902a	1.3	1.0	2.0	1.0	1.0	1.0
LD13-5131a	1.3	1.0	2.0	2.0	1.0	1.0
LD13-5290a	1.1	1.0	1.0	1.0	1.0	1.0
LD13-6678	1.1	1.0	1.0	1.0	1.0	1.0
MSC09-777143	1.4	1.0	2.0	2.0	1.0	1.0
MSC10-578025	1.1	2.0	1.0	1.0	1.0	1.0
ORC 8715	1.3	2.0	2.0	1.0	1.0	1.0
U13-603120	1.4	1.0	2.0	1.0	1.0	1.0
U13-604147	1.1	1.0	1.0	1.0	1.0	1.0
U13-609144	1.1	1.0	1.0	1.0	1.0	1.0
U14-222063	1.0	1.0	1.0	1.0	1.0	1.0
U14-910097	1.3	1.0	2.0	2.0	1.0	1.0
U14-915126	1.1	1.0	2.0	1.0	1.0	1.0
U14-919098	1.1	1.0	1.0	2.0	1.0	1.0
U14-923097	1.1	1.0	1.0	1.0	1.0	1.0
U14-925152	1.2	1.0	2.0	1.0	1.0	1.0

UNIFORM TEST II, 2017

SEED QUALITY (score)

Strain	Britton MI	East Lansing MI	Lamberton MN	Waseca MN	Cotesfield NE
IA2102 (II)			2.0	2.0	1.0
IA1022 (SCN)			2.0	1.0	1.0
LD02-4485 (SCN)			1.0	1.0	1.0
U11-920017			1.0	2.0	1.5
AR14-247080			1.0	1.0	1.5
DSN11-12073			1.0	1.0	1.0
DSN11-12119			1.0	1.0	1.0
E12042			1.0	2.0	1.0
E13100			2.0	2.0	1.5
E13268			1.0	1.0	2.0
E13370			2.0	1.0	1.5
E14077			1.0	1.0	1.5
E14141			1.0	1.0	1.0
E14148			1.0	1.0	1.0
E14309			1.0	1.0	1.0
E14314			2.0	2.0	1.0
HM13-W156			1.0	1.0	1.0
LD12-459			2.0	1.0	1.5
LD13-1429			1.0	1.0	1.0
LD13-4902a			2.0	2.0	1.0
LD13-5131a			1.0	1.0	1.0
LD13-5290a			2.0	1.0	1.0
LD13-6678			1.0	1.0	1.5
MSC09-777143			2.0	2.0	1.0
MSC10-578025			1.0	1.0	1.0
ORC 8715			2.0	1.0	1.0
U13-603120			2.0	2.0	1.5
U13-604147			2.0	1.0	1.0
U13-609144			2.0	1.0	1.0
U14-222063			1.0	1.0	1.0
U14-910097			2.0	1.0	1.0
U14-915126			1.0	1.0	1.0
U14-919098			1.0	1.0	1.0
U14-923097			1.0	1.0	1.5
U14-925152			1.0	1.0	1.0

UNIFORM TEST II, 2017**SEED QUALITY (score)**

Strain	Phillips NE	Hoytville OH	Wooster OH	Chatham ONT
IA2102 (II)	1.5	1.0	1.0	1.0
IA1022 (SCN)	1.0	1.0	1.0	1.0
LD02-4485 (SCN)	1.5	1.0	1.0	1.0
U11-920017	1.0	1.0	1.0	1.3
AR14-247080	1.0	1.0	1.0	1.0
DSN11-12073	1.0	1.0	1.0	1.0
DSN11-12119	1.0	1.0	1.0	1.0
E12042	1.0	1.0	1.0	1.0
E13100	1.5	1.0	1.0	1.0
E13268	1.0	1.0	1.0	1.0
E13370	1.0	1.0	1.0	1.0
E14077	1.0	1.0	1.0	1.0
E14141	1.0	1.0	1.0	1.0
E14148	1.0	1.0	1.0	1.0
E14309	1.0	1.0	1.0	1.5
E14314	1.0	1.0	1.0	1.0
HM13-W156	1.0	1.0	1.0	1.0
LD12-459	1.5	1.0	1.0	1.0
LD13-1429	1.5	1.0	1.0	1.0
LD13-4902a	1.0	1.0	1.0	1.0
LD13-5131a	2.0	1.0	1.0	1.0
LD13-5290a	1.5	1.0	1.0	1.0
LD13-6678	1.5	1.0	1.0	1.0
MSC09-777143	1.5	1.0	1.0	1.0
MSC10-578025	1.5	1.0	1.0	1.0
ORC 8715	2.0	1.0	1.0	1.0
U13-603120	2.0	1.0	1.0	1.0
U13-604147	1.5	1.0	1.0	1.0
U13-609144	1.5	1.0	1.0	1.0
U14-222063	1.5	1.0	1.0	1.0
U14-910097	1.5	1.0	1.0	1.0
U14-915126	1.5	1.0	1.0	1.0
U14-919098	1.5	1.0	1.0	1.0
U14-923097	2.0	1.0	1.0	1.0
U14-925152	2.0	1.0	1.0	1.0

UNIFORM TEST II, 2017

PROTEIN (%)

Strain	Mean 9 Tests	Ames IA	Pontiac IL	Urbana IL	West Laf IN	Lamber- ton MN	Cotes- field NE	Hoytville OH	Wooster OH	Chatham ONT
IA2102 (II)	33.4	32.4	33.8	33.3	30.7	34.1	34.0	32.7	34.2	35.1
IA1022 (SCN)	31.3	30.0	30.8	30.4	31.1	32.6	28.2	31.6	34.1	33.0
LD02-4485 (SCN)	31.6	30.7	31.3	30.2	31.7	33.0	32.8	30.7	30.7	33.3
U11-920017	31.8	30.5	31.6	31.3	32.1	32.0	33.0	31.2	32.3	32.7
AR14-247080	34.3	34.7	34.0	34.3	34.0	34.0	35.4	32.9	33.6	35.7
DSN11-12073	33.5	31.7	33.2	32.4	33.0	34.4	34.2	33.9	33.0	35.4
DSN11-12119	32.6	31.7	32.4	31.3	32.2	34.3	33.8	32.0	32.4	33.3
E12042	32.7	30.3	32.8	31.9	32.9	32.0	34.9	32.5	33.0	33.9
E13100	33.1	31.6	30.6	32.3	34.2	34.7	34.3	32.3	33.8	34.4
E13268	32.6	31.2	31.9	31.8	32.0	34.1	32.9	31.9	33.4	33.9
E13370	33.6	32.2	33.4	31.7	32.9	34.6	35.6	33.3	34.1	34.9
E14077	33.3	30.9	32.6	33.8	32.9	33.6	34.8	32.6	33.0	35.6
E14141	34.3	32.9	34.0	33.5	34.2	35.8	35.5	33.4	33.7	35.6
E14148	33.1	30.7	32.9	30.9	31.6	34.8	34.9	33.7	33.1	35.7
E14309	32.7	30.7	33.0	32.6	32.5	34.9	33.2	31.7	31.6	33.8
E14314	32.9	31.3	32.5	31.9	32.7	34.9	34.4	31.9	32.7	33.9
HM13-W156	34.9	34.0	34.7	34.3	34.4	35.1	38.6	33.3	34.3	35.7
LD12-459	33.3	33.7	33.1	32.1	33.9	33.4	34.4	32.1	33.0	34.4
LD13-1429	34.1	33.3	34.9	33.6	33.5	35.4	34.4	33.0	34.3	35.0
LD13-4902a	32.4	32.1	32.3	32.6	33.1	32.8	34.0	32.1	29.6	33.2
LD13-5131a	33.4	32.6	33.5	33.3	32.0	34.7	33.8	32.5	33.0	35.1
LD13-5290a	32.7	32.4	32.8	32.2	31.7	33.5	33.3	33.6	30.7	33.9
LD13-6678	33.2	32.1	32.6	32.2	32.6	34.0	34.7	33.2	33.1	34.7
MSC09-777143	31.5	30.4	32.1	30.4	32.8	30.6	32.7	31.6	30.5	32.6
MSC10-578025	34.0	32.0	33.6	33.3	33.9	35.4	34.9	34.5	33.4	35.2
ORC 8715	34.2	32.4	34.9	32.0	35.4	36.2	34.4	32.8	34.6	35.1
U13-603120	33.4	32.7	35.2	32.6	32.8	34.0	34.8	33.9	30.2	34.2
U13-604147	33.2	32.0	32.8	31.2	34.1	33.5	34.9	32.8	32.8	34.5
U13-609144	31.9	31.1	32.0	30.8	33.0	32.6	33.6	31.2	29.2	33.7
U14-222063	33.2	32.5	33.2	32.0	33.9	33.7	33.8	32.7	32.9	34.6
U14-910097	32.4	30.8	31.5	32.6	31.6	33.4	33.3	31.2	32.1	34.7
U14-915126	31.7	30.6	30.5	30.9	32.9	29.1	33.9	31.4	32.1	33.7
U14-919098	32.8	31.6	32.5	32.0	34.2	31.3	35.0	31.2	32.3	35.2
U14-923097	32.2	31.5	31.9	30.6	33.3	31.7	33.7	31.4	32.0	33.6
U14-925152	33.1	30.9	32.5	32.1	34.0	33.1	34.3	32.6	33.8	34.7

UNIFORM TEST II, 2017

OIL (%)

Strain	Mean 9 Tests	Ames IA	Pontiac IL	Urbana IL	West Laf IN	Lamber- ton MN	Cotes- field NE	Hoytville OH	Wooster OH	Chatham ONT
IA2102 (II)	18.7	18.9	18.5	19.3	20.2	18.4	17.6	18.6	18.5	18.4
IA1022 (SCN)	20.3	21.1	20.8	21.2	20.7	19.2	21.7	19.6	18.9	19.9
LD02-4485 (SCN)	19.2	19.8	18.9	20.3	19.3	18.6	18.7	18.9	19.4	18.8
U11-920017	19.4	19.8	19.3	20.2	19.6	18.9	18.7	19.2	19.5	19.6
AR14-247080	18.1	18.3	18.1	18.3	18.4	18.1	17.7	18.1	18.2	17.6
DSN11-12073	18.7	19.4	18.5	19.8	18.9	18.3	18.4	18.4	18.5	18.2
DSN11-12119	18.6	19.2	18.8	19.8	18.9	18.0	18.1	18.3	18.8	18.0
E12042	19.3	20.5	19.0	20.5	19.7	19.0	18.3	19.1	19.3	18.8
E13100	19.5	19.8	19.9	20.5	19.2	18.4	19.3	19.3	19.7	19.4
E13268	19.3	19.8	19.5	20.0	19.4	18.2	18.7	19.0	19.3	19.6
E13370	18.3	19.3	18.2	19.2	18.8	17.5	17.4	17.8	18.3	18.6
E14077	19.2	20.0	19.6	19.8	19.3	18.9	18.5	19.0	19.3	18.5
E14141	18.7	19.5	18.9	19.4	18.6	17.6	17.9	18.4	19.2	18.8
E14148	19.4	20.3	19.4	20.6	20.1	18.6	18.7	18.7	19.5	18.8
E14309	18.3	19.3	17.6	18.3	18.8	17.8	17.9	18.3	18.9	18.3
E14314	19.3	20.1	19.3	20.2	19.6	18.5	18.3	19.1	19.4	19.6
HM13-W156	17.9	18.4	17.3	18.6	17.9	17.5	17.7	18.3	17.7	17.8
LD12-459	18.7	18.5	18.7	19.4	18.3	18.4	18.2	18.9	19.2	18.5
LD13-1429	18.7	19.2	18.3	19.4	19.2	18.2	18.4	18.9	18.7	18.4
LD13-4902a	19.3	19.6	19.5	19.7	19.2	18.6	18.5	19.2	20.2	19.4
LD13-5131a	18.6	19.3	18.8	19.8	18.9	17.6	18.1	18.3	18.8	18.0
LD13-5290a	19.2	19.4	19.1	19.6	19.9	18.6	18.7	18.8	19.9	18.8
LD13-6678	19.1	19.8	18.9	19.6	19.5	18.6	18.8	19.3	19.2	18.3
MSC09-777143	20.2	20.6	19.8	21.1	20.0	20.6	20.0	19.9	20.0	20.2
MSC10-578025	19.0	19.7	19.2	20.4	19.2	17.4	18.6	18.5	19.1	18.5
ORC 8715	18.1	19.1	17.6	19.3	17.7	16.2	18.1	18.0	18.2	18.6
U13-603120	19.0	19.0	19.2	19.8	19.4	18.6	18.6	18.6	19.9	18.3
U13-604147	19.3	19.5	19.3	20.3	19.0	18.8	18.3	19.3	19.5	19.4
U13-609144	19.6	19.8	19.7	20.7	19.5	19.2	19.1	19.4	20.6	18.7
U14-222063	18.7	19.5	18.4	19.9	18.6	18.2	18.1	18.5	18.8	18.6
U14-910097	19.8	20.6	19.9	20.2	20.4	19.6	17.5	20.3	20.1	19.6
U14-915126	19.9	20.2	19.6	20.3	19.3	22.3	18.5	19.5	19.7	19.6
U14-919098	19.6	20.4	20.0	20.4	19.0	19.4	18.6	19.7	20.1	18.6
U14-923097	19.5	19.8	19.7	20.4	19.0	19.5	18.8	19.4	19.5	19.7
U14-925152	19.5	20.6	19.3	20.5	19.2	19.5	19.0	19.2	19.4	19.2

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PRELIMINARY TEST IIA, 2017

Ent.	Strain	Parentage	Seed Source	Gen. Comp.	Unique Traits	Germ. %	Sd. Wt. g/100
1	IA2102 (II)	A04-545045 x AgriPro 98180-A01-0613	Cai	F4		83	16.0
2	IA1022 (SCN)	Dairyland 98822 x A00-711024	Cai	F5	SCN	81	15.1
3	LD02-4485 (SCN)	M90-184111 x IA3010	Diers	F5	SCN	94	13.9
4	U11-920017	HS5-3417 x LD02- 4485	Graef	F6	Excellent Rps Resistance	99	17.6
5	CR145192	LD04-11056W x U03-260216	Rainey		SCN x Yield	89	13.5
6	CR145764	CL04-13234 x LD06-7620	Rainey		Yield+Rps3a? x SCN	89	16.9
7	CR145789	CL04-13234 x LD06-7620	Rainey		Yield+Rps3a? x SCN	91	16.7
8	CR146131	LD06-7596 x LS05-3229	Rainey		ACC, SCN x SCN	91	14.0
9	CR147871	LG06-5920 x U03-100612	Rainey		Diversity	93	14.5
10	CR148383	LD07-3395 x AR09-391017	Rainey		ACC, SCN R1 x SCN	92	13.1
11	E15097	E07051 x E06936	Wang	F5	SCN Resistance	94	20.1
12	E15325	E11901 x LD02-4485	Wang	F5	SCN Resistance	88	19.7
13	E15337	E09088 x E12901	Wang	F5		95	22.8
14	E15338	E09088 x E12901	Wang	F5	SCN Resistance?	94	21.2
15	E15339	IA2102 x LD02-4485	Wang	F5	SCN Resistance	95	20.6
16	E15345	IA2102 x LD02-4485	Wang	F5	SCN Resistance	86	20.7
17	E15347	IA2102 x E07051	Wang	F5	SCN Resistance	95	23.3
18	E15349	IA2102 x E07051	Wang	F5	SCN Resistance	88	21.3
19	E15350	IA2102 x E07051	Wang	F5	SCN Resistance	92	22.1
20	E15351	IA2102 x E07051	Wang	F5	SCN Resistance	93	21.4
21	E15390	E07048 x E06186	Wang	F5	SCN Resistance?	92	24.9
22	M11-336139	M97-357138 X M03-364021	Lorenz	F5	SCN, SDS	100	15.6
23	ORC 1602N	RCAT 0905N x SC 4009N	Eskandari	F5	Food-Grade	89	17.6
24	ORC 1603N	RCAT 0905N x SC 4009N	Eskandari	F5	Food-Grade	88	18.7
25	ORC 3616N	RCAT 1004N x OAC Huron	Eskandari	F5	Food-Grade	89	22.9
26	ORC 7215N	RCAT 0905N x OX-802	Eskandari	F5	Food-Grade	93	23.9

PRELIMINARY TEST IIA, 2017
DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	IDC
		Score
		Danvers
IA2102 (II)	WGTDYYI	1.5
IA1022 (SCN)	PGTSYYI	2.8
LD02-4485 (SCN)	PGGDYBfI	3.8
U11-920017	WGTIYBrI	1.8
CR145192	WTBSYLbI	1.3
CR145764	WTBSYBI	3.0
CR145789	PTBIYBI	3.5
CR146131	WTTSYBI	4.0
CR147871	PGTSYLbI	2.8
CR148383	P+WTBSYLbrI	3.5
E15097	PGTIYYI	2.5
E15325	PGTSYBrI	2.5
E15337	PGTIYBf+DibI	3.0
E15338	PGTIYDibI	2.0
E15339	WGTSYBfI	1.8
E15345	WGTIYYI	1.5
E15347	WGTSYBfI	2.0
E15349	PGTDYYI	1.5
E15350	P+WGTDYBfI	2.0
E15351	WGTDYBfI	2.5
E15390	PGTSYDibI	3.0
M11-336139	PGTSYDibI	1.3
ORC 1602N	WGTSYYI	2.8
ORC 1603N	WGTSYYI	1.8
ORC 3616N	WGTDYYI	4.0
ORC 7215N	WGTSYYI	2.3

PRELIMINARY TEST IIA, 2017

REGIONAL SUMMARY

No. of Tests Strain	Yield 11 bu/a	Rank 11 No.	Maturity 10 Date	Lodging 10 Score	Plant Height 10 In.	Seed Size 10 g/100	Seed Quality 10 Score	Composition	
								Protein 9 %	Oil 9 %
IA2102 (II)	62.0	14	9/25	1.8	36	16.8	1.5	33.6	18.6
IA1022 (SCN)	54.5	23	-2.3	1.5	32	16.8	1.3	31.8	20.2
LD02-4485 (SCN)	65.3	8	1.4	1.6	34	16.3	1.2	32.3	19.0
U11-920017	69.1	1	1.6	1.5	32	18.3	1.4	31.9	19.2
CR145192	65.5	7	7.5	1.8	39	16.4	1.3	34.0	19.2
CR145764	64.7	9	7.0	1.9	40	18.0	1.2	34.7	18.6
CR145789	59.9	18	9.2	1.7	39	17.4	1.6	33.6	18.7
CR146131	61.5	15	6.0	1.7	37	15.4	1.2	33.9	19.2
CR147871	61.2	16	7.8	1.7	33	16.8	1.5	35.2	18.6
CR148383	61.2	16	7.0	1.8	34	15.4	1.5	32.5	19.5
E15097	57.7	20	-2.9	1.4	29	16.5	1.8	33.4	19.4
E15325	58.2	19	-3.0	1.7	34	15.3	1.3	33.6	18.0
E15337	62.5	12	-4.0	1.4	32	18.3	1.6	33.6	18.5
E15338	64.0	11	-6.4	1.6	33	17.0	1.2	33.3	18.9
E15339	67.4	3	-0.3	1.9	35	16.7	1.3	32.8	19.5
E15345	67.4	3	3.0	2.0	36	16.4	1.3	32.9	18.9
E15347	64.6	10	-0.0	1.5	34	18.4	1.3	32.7	18.8
E15349	66.3	6	-0.8	1.7	35	16.4	1.4	33.9	19.0
E15350	62.3	13	-3.0	1.9	32	16.5	1.0	33.2	19.0
E15351	67.5	2	-1.4	1.5	34	17.7	1.8	32.1	18.4
E15390	66.5	5	1.9	1.7	34	20.0	1.2	35.0	18.5
M11-336139	57.6	21	-1.5	1.6	36	16.8	1.4	34.8	18.4
ORC 1602N	57.1	22	-4.5	1.7	34	17.5	1.5	35.4	17.5
ORC 1603N	50.5	24	-3.6	1.5	32	18.8	1.8	35.3	17.9
ORC 3616N	49.0	25	-6.3	1.6	31	21.5	1.6	34.5	18.0
ORC 7215N	46.9	26	-7.7	1.5	33	21.1	1.6	35.4	18.3
Mean	60.8		25.4	1.7	34.3	17.3	1.3		
C.V. (%)	15.5		11.1	22.0	8.8	5.0	31.3		
L.S.D. (5%)	4.7		1.5	1.2	1.6	0.5	0.2		

124.7 Days After Planting

PRELIMINARY TEST IIA, 2017

YIELD (bu/a)

Strain	Mean 11 Tests	Ames IA	Urbana IL	West Lafayette IN	East Lansing MI	Lamberton MN	Waseca MN
IA2102 (II)	62.0	72.7	59.0	57.6	51.4	59.8	59.4
IA1022 (SCN)	54.5	61.7	49.7	56.2	41.9	50.0	53.8
LD02-4485 (SCN)	65.3	68.5	69.3	65.7	48.8	59.0	62.1
U11-920017	69.1	67.5	65.2	66.0	58.8	68.5	70.5
CR145192	65.5	68.1	64.8	64.2	51.3	56.3	52.3
CR145764	64.7	65.0	63.5	58.6	58.3	47.5	48.0
CR145789	59.9	66.7	61.7	66.9	52.8	50.8	36.7
CR146131	61.5	68.4	62.6	52.8	50.4	57.0	46.4
CR147871	61.2	63.3	62.5	54.3	50.1	53.7	49.5
CR148383	61.2	66.1	66.7	56.8	44.9	52.6	45.7
E15097	57.7	66.0	53.5	56.0	45.1	59.0	59.1
E15325	58.2	59.7	36.1**2	48.6	50.5	52.9	67.5
E15337	62.5	71.3	56.1	61.5	44.3	59.6	60.6
E15338	64.0	66.6	49.5*1	58.5	52.1	64.0	62.1
E15339	67.4	74.2	65.1	61.1	52.5	64.4	60.6
E15345	67.4	73.9	72.6	61.0	55.6	49.2	66.6
E15347	64.6	69.9	63.8	63.5	48.6	52.0	44.3
E15349	66.3	68.2	66.1	56.1	51.1	64.3	40.7
E15350	62.3	70.6	59.2	57.5	44.5	58.9	63.4
E15351	67.5	68.8	60.9	65.3	48.4	66.6	62.9
E15390	66.5	60.1	62.0	55.4	50.0	52.9	56.1
M11-336139	57.6	51.4	43.0	56.3	44.8	49.0	53.2
ORC 1602N	57.1	65.4	47.3	52.4	45.5	55.6	46.0
ORC 1603N	50.5	54.4	48.5	48.6	52.0	40.1	33.3
ORC 3616N	49.0	55.6	25.1**2	38.2	37.3	48.9	56.5
ORC 7215N	46.9	50.8	21.9**2	33.2	40.0	36.5	43.5
Location Mean		65.2	60.1	56.6	48.9	55.0	53.9
C.V. (%)		5.9	9.2	3.9	12.0	11.2	8.8
L.S.D. (5%)		9.7	10.6	3.8	14.6	12.7	9.7
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.

*1 one rep shattering, **2 both reps shatteing

PRELIMINARY TEST IIA, 2017

YIELD (bu/a)

Strain	Cotesfield NE	Phillips NE	Hoytville OH	Wooster OH	Chatham ONT
IA2102 (II)	79.8	95.7	46.7	38.2	62.1
IA1022 (SCN)	73.2	64.1	45.2	47.7	55.6
LD02-4485 (SCN)	78.2	76.7	56.7	76.8	56.6
U11-920017	90.8	100.9	61.6	48.1	61.7
CR145192	79.1	88.2	70.4	61.3	64.7
CR145764	81.2	90.1	57.8	70.6	70.9
CR145789	67.3	81.2	46.8	59.4	68.3
CR146131	78.4	83.3	63.3	42.7	71.7
CR147871	76.5	87.3	58.8	41.7	75.4
CR148383	81.4	90.8	57.9	44.3	66.3
E15097	68.9	63.2	41.4	51.3	71.5
E15325	62.5	59.4	52.0	55.5	73.7
E15337	80.4	62.3	53.8	64.1	73.7
E15338	83.5	53.6	56.8	71.4	71.4
E15339	72.7	80.1	55.8	77.7	77.6
E15345	68.9	89.7	67.1	57.3	80.1
E15347	88.6	81.0	60.5	63.7	75.0
E15349	90.1	88.8	48.1	70.4	85.5
E15350	80.1	72.7	42.5	61.9	74.2
E15351	95.5	88.0	48.3	56.5	81.9
E15390	88.4	97.9	64.0	62.1	82.6
M11-336139	84.0	79.0	54.9	63.0	55.1
ORC 1602N	80.6	68.7	51.1	50.7	65.4
ORC 1603N	76.5	62.1	42.8	32.5	64.3
ORC 3616N	72.0	45.1	44.4	26.0	66.0
ORC 7215N	63.4	33.0	42.7	61.2	64.5
Location Mean	78.5	76.3	53.5	56.0	69.8
C.V. (%)	8.5	6.4	13.4	14.5	7.3
L.S.D. (5%)	13.7	10.0	14.8	17.2	10.6
Row Sp. (In.)	30	30	7.5	7.5	17
Rows/Plot	4	4	8	8	5
Reps	2	2	2	2	2

PRELIMINARY TEST IIA, 2017

YIELD RANK

Strain	Yield Rank	Ames IA	Urbana IL	West Lafayette IN	East Lansing MI	Lamberton MN	Waseca MN
IA2102 (II)	14	3	16	12	8	6	10
IA1022 (SCN)	23	20	19	16	24	20	14
LD02-4485 (SCN)	8	8	2	3	15	8	7
U11-920017	1	12	5	2	1	1	1
CR145192	7	11	7	5	9	12	16
CR145764	9	18	9	10	2	24	18
CR145789	18	13	13	1	4	19	25
CR146131	15	9	10	21	12	11	19
CR147871	16	19	11	20	13	14	17
CR148383	16	15	3	14	20	17	21
E15097	20	16	18	18	19	9	11
E15325	19	22	24	23	11	15	2
E15337	12	4	17	7	23	7	8
E15338	11	14	20	11	6	5	6
E15339	3	1	6	8	5	3	9
E15345	3	2	1	9	3	21	3
E15347	10	6	8	6	16	18	22
E15349	6	10	4	17	10	4	24
E15350	13	5	15	13	22	10	4
E15351	2	7	14	4	17	2	5
E15390	5	21	12	19	14	16	13
M11-336139	21	25	23	15	21	22	15
ORC 1602N	22	17	22	22	18	13	20
ORC 1603N	24	24	21	23	7	25	26
ORC 3616N	25	23	25	25	26	23	12
ORC 7215N	26	26	26	26	25	26	23

PRELIMINARY TEST IIA, 2017

YIELD RANK

Strain	Cotesfield NE	Phillips NE	Hoytville OH	Wooster OH	Chatham ONT
IA2102 (II)	13	3	21	24	22
IA1022 (SCN)	19	19	22	20	25
LD02-4485 (SCN)	16	16	12	2	24
U11-920017	2	1	6	19	23
CR145192	14	8	1	11	19
CR145764	9	5	10	4	14
CR145789	24	12	20	13	15
CR146131	15	11	5	22	11
CR147871	18	10	8	23	6
CR148383	8	4	9	21	16
E15097	23	20	27	17	12
E15325	26	23	16	16	10
E15337	11	21	15	6	9
E15338	7	24	11	3	13
E15339	20	14	13	1	5
E15345	22	6	3	14	4
E15347	4	13	7	7	7
E15349	3	7	19	5	1
E15350	12	17	26	10	8
E15351	1	9	18	15	3
E15390	5	2	4	9	2
M11-336139	6	15	14	8	26
ORC 1602N	10	18	17	18	18
ORC 1603N	17	22	24	25	21
ORC 3616N	21	25	23	26	17
ORC 7215N	25	26	25	12	20

PRELIMINARY TEST IIA, 2017

MATURITY (date)

Strain	Mean 10 Tests	Ames IA	Urbana IL	West Lafayette IN	East Lansing MI	Lamberton MN	Waseca MN
IA2102 (II)	9/25	9/15	9/13	9/26	9/30	10/14	10/4
IA1022 (SCN)	-2	-2	-5	-2	-3		-3
LD02-4485 (SCN)	1	3	0	2	1	1	6
U11-920017	2	3	1	3	1	1	3
CR145192	8	6	10	9	5	7	13
CR145764	7	8	10	8	6	8	11
CR145789	9	11	13	9	7	10	13
CR146131	6	7	9	7	5	5	4
CR147871	8	9	11	10	6	8	13
CR148383	7	7	9	10	6	6	11
E15097	-3	3	-4	0	-4	-12	-6
E15325	-3	1	-5	-1	-1	-9	-4
E15337	-4	1	-8	1	-5	-10	-6
E15338	-6	-1	-9	-2	-7	-13	-7
E15339	-0	0	-1	0	2	1	-2
E15345	3	6	3	2	3	5	2
E15347	-0	4	0	0	1	-4	-2
E15349	-1	-1	0	-1	-1	-4	-2
E15350	-3	-3	-6	-1	-2	-8	-3
E15351	-1	-1	-3	1	-1	-3	-3
E15390	2	4	0	3	1	2	3
M11-336139	-2	1	-4	0	-3	-6	-0
ORC 1602N	-4	-2	-10	-4	-3	-14	-2
ORC 1603N	-4	-3	-8	-2	-2	-9	6
ORC 3616N	-6	-4	-11	-3	-6	-15	-4
ORC 7215N	-8	-2	-10	-6	-5	-13	-5
Date Planted	5/23	5/9	5/16	6/2	6/2	5/15	5/31
Days to Mature	125	129	120	116	120	152	126

PRELIMINARY TEST IIA, 2017

MATURITY (date)

Strain	Cotesfield NE	Phillips NE	Hoytville OH	Wooster OH	Chatham ONT
IA2102 (II)		9/16	9/26	9/21	9/27
IA1022 (SCN)		-2	0	0	-4
LD02-4485 (SCN)		-2	0	2	2
U11-920017		1	0	2	2
CR145192		7	5	6	8
CR145764		4	5	5	6
CR145789		7	10	6	7
CR146131		5	5	5	8
CR147871		6	7	10	-2
CR148383		6	5	5	6
E15097		-4	-1	2	-4
E15325		-3	0	-5	-3
E15337		-6	0	-2	-6
E15338		-9	-2	-7	-8
E15339		-2	-1	1	-1
E15345		0	2	1	7
E15347		-2	0	3	1
E15349		-1	0	2	0
E15350		-3	-1	-3	0
E15351		-2	0	0	-2
E15390		3	0	-1	6
M11-336139		-2	-1	1	-1
ORC 1602N		-4	-2	-5	1
ORC 1603N		-5	-5	-11	3
ORC 3616N		-8	-2	-5	-6
ORC 7215N		-8	-10	-12	-6
Date Planted		5/15	6/1	5/19	5/31
Days to Mature		124	117	125	119

PRELIMINARY TEST IIA, 2017

LODGING (score)

Strain	Mean 10 Tests	Ames IA	Urbana IL	West Lafayette IN	East Lansing MI	Lamberton MN	Waseca MN
IA2102 (II)	1.8	2.0	1.0	1.5	1.5	2.0	4.5
IA1022 (SCN)	1.5	2.3	1.0	1.5	1.0		3.0
LD02-4485 (SCN)	1.6	2.3	1.3	1.5	1.0	2.0	3.0
U11-920017	1.5	1.8	1.0	1.0	1.0	2.0	4.0
CR145192	1.8	2.5	1.0	1.0	1.0	3.0	4.0
CR145764	1.9	2.5	1.0	1.5	1.5	3.0	4.0
CR145789	1.7	2.0	1.0	1.3	1.0	3.0	3.0
CR146131	1.7	1.8	1.0	1.0	1.0	3.0	3.5
CR147871	1.7	2.0	1.0	1.0	1.0	3.0	4.0
CR148383	1.8	2.0	1.5	1.0	1.0	3.0	4.0
E15097	1.4	1.5	1.0	1.0	1.0	1.5	3.0
E15325	1.7	2.5	1.8	1.5	1.0	2.0	3.0
E15337	1.4	1.5	1.0	1.0	1.0	2.0	3.0
E15338	1.6	2.0	1.0	1.5	1.0	2.0	3.0
E15339	1.9	2.3	2.0	2.0	1.0	2.5	4.0
E15345	2.0	2.8	2.0	2.0	1.0	3.0	4.0
E15347	1.5	1.5	1.0	1.0	1.0	2.5	3.0
E15349	1.7	2.3	1.5	1.5	1.0	1.5	4.0
E15350	1.9	2.8	1.3	1.8	1.5	2.0	3.5
E15351	1.5	2.0	1.0	1.0	1.0	2.0	3.5
E15390	1.7	1.8	1.3	1.0	1.0	2.5	4.0
M11-336139	1.6	1.8	1.0	1.0	1.5	2.0	3.5
ORC 1602N	1.7	2.5	1.0	1.0	1.0	2.0	4.0
ORC 1603N	1.5	2.0	1.0	1.0	1.0	2.0	3.0
ORC 3616N	1.6	2.0	1.0	1.0	1.5	2.0	3.5
ORC 7215N	1.5	2.0	1.3	1.0	2.0	2.0	3.0

PRELIMINARY TEST IIA, 2017

LODGING (score)

Strain	Cotesfield NE	Phillips NE	Hoytville OH	Wooster OH	Chatham ONT
IA2102 (II)		2.5	1.0	1.0	1.0
IA1022 (SCN)		2.0	1.0	1.0	1.0
LD02-4485 (SCN)		2.0	1.0	1.0	1.0
U11-920017		1.5	1.0	1.0	1.0
CR145192		2.5	1.0	1.0	1.0
CR145764		2.5	1.0	1.0	1.0
CR145789		2.5	1.0	1.0	1.0
CR146131		2.5	1.0	1.0	1.0
CR147871		2.0	1.0	1.0	1.0
CR148383		2.5	1.0	1.0	1.0
E15097		1.5	1.0	1.0	1.0
E15325		2.5	1.0	1.0	1.0
E15337		1.0	1.0	1.0	1.0
E15338		2.0	1.0	1.0	1.0
E15339		2.5	1.0	1.0	1.0
E15345		2.5	1.0	1.0	1.0
E15347		1.5	1.0	1.0	1.0
E15349		2.5	1.0	1.0	1.0
E15350		3.0	1.0	1.0	1.0
E15351		1.0	1.0	1.0	1.0
E15390		2.5	1.0	1.0	1.0
M11-336139		2.0	1.0	1.0	1.0
ORC 1602N		2.0	1.0	1.0	1.0
ORC 1603N		1.5	1.0	1.0	1.0
ORC 3616N		2.0	1.0	1.0	1.0
ORC 7215N		1.0	1.0	1.0	1.0

PRELIMINARY TEST IIA, 2017

PLANT HEIGHT (inches)

Strain	Mean 10 Tests	Ames IA	Urbana IL	West Lafayette IN	East Lansing MI	Lamberton MN	Waseca MN
IA2102 (II)	36	37	36	35	39	35	45
IA1022 (SCN)	32	35	32	32	34		42
LD02-4485 (SCN)	34	38	36	33	34	35	43
U11-920017	32	36	37	29	33	33	38
CR145192	39	43	42	37	41	40	49
CR145764	40	44	41	37	42	44	50
CR145789	39	44	42	33	41	45	47
CR146131	37	40	39	30	38	38	50
CR147871	33	37	35	27	34	39	44
CR148383	34	38	38	31	36	35	39
E15097	29	32	30	25	32	20	39
E15325	34	36	35	31	34	34	43
E15337	32	31	32	34	36	35	38
E15338	33	34	34	30	36	33	42
E15339	35	40	37	34	36	36	43
E15345	36	41	40	31	37	37	42
E15347	34	34	35	32	34	34	44
E15349	35	37	38	32	36	36	44
E15350	32	35	35	32	33	34	38
E15351	34	35	33	28	36	40	40
E15390	34	36	38	29	36	37	44
M11-336139	36	39	37	31	36	36	48
ORC 1602N	34	36	34	29	34	37	41
ORC 1603N	32	32	32	26	36	32	46
ORC 3616N	31	34	30	26	36	34	40
ORC 7215N	33	34	31	25	37	34	42

PRELIMINARY TEST IIA, 2017

PLANT HEIGHT (inches)

Strain	Cotesfield NE	Phillips NE	Hoytville OH	Wooster OH	Chatham ONT
IA2102 (II)		41	26	27	37
IA1022 (SCN)		40	20	23	34
LD02-4485 (SCN)		41	24	29	33
U11-920017		38	23	27	31
CR145192		49	27	27	33
CR145764		46	25	35	33
CR145789		49	25	32	33
CR146131		46	25	29	33
CR147871		44	21	22	31
CR148383		41	22	26	35
E15097		35	20	23	35
E15325		42	26	27	35
E15337		36	24	26	31
E15338		36	24	27	31
E15339		44	24	30	31
E15345		42	27	30	35
E15347		40	24	26	33
E15349		43	22	29	35
E15350		40	21	27	31
E15351		43	24	26	36
E15390		42	26	25	33
M11-336139		45	26	31	34
ORC 1602N		39	26	25	35
ORC 1603N		40	23	26	33
ORC 3616N		35	22	26	33
ORC 7215N		39	25	25	36

PRELIMINARY TEST IIA, 2017

SEED SIZE (g/100)

Strain	Mean 10 Tests	Ames IA	Urbana IL	West Lafayette IN	East Lansing MI	Lamberton MN	Waseca MN
IA2102 (II)	16.8	17.0	15.1	13.4		17.9	18.3
IA1022 (SCN)	16.8	16.0	14.2	15.6			17.3
LD02-4485 (SCN)	16.3	15.4	15.6	15.2		17.8	17.9
U11-920017	18.3	17.4	16.0	16.8		19.8	20.5
CR145192	16.4	15.4	15.0	14.6		17.6	18.0
CR145764	18.0	17.5	16.7	16.4		19.2	19.3
CR145789	17.4	17.4	17.2	16.7		16.8	18.1
CR146131	15.4	15.0	14.0	14.0		16.6	15.8
CR147871	16.8	16.3	16.5	15.1		17.9	17.4
CR148383	15.4	14.4	13.9	13.5		16.7	17.4
E15097	16.5	16.3	13.7	16.2		17.9	16.8
E15325	15.3	15.6	14.8	14.4		16.0	15.7
E15337	18.3	17.8	16.3	17.6		19.2	19.9
E15338	17.0	16.3	14.7	16.1		18.6	18.1
E15339	16.7	16.3	14.9	14.6		18.8	17.4
E15345	16.4	17.0	15.8	14.2		18.4	16.9
E15347	18.4	18.7	17.2	15.7		20.6	20.0
E15349	16.4	15.8	15.1	13.7		18.1	18.0
E15350	16.5	17.5	14.4	14.1		18.5	17.7
E15351	17.7	18.5	15.0	15.6		20.5	19.1
E15390	20.0	20.4	17.7	17.8		22.4	21.5
M11-336139	16.8	15.7	13.8	15.1		18.6	17.0
ORC 1602N	17.5	19.0	14.8	14.9		18.0	18.2
ORC 1603N	18.8	19.3	18.8	17.3		20.3	20.2
ORC 3616N	21.5	21.5	19.3	18.7		24.2	24.8
ORC 7215N	21.1	23.3	18.8	18.6		21.4	22.6

PRELIMINARY TEST IIA, 2017

SEED SIZE (g/100)

Strain	Cotesfield NE	Phillips NE	Hoytville OH	Wooster OH	Chatham ONT
IA2102 (II)	18.1	18.0	16.1	15.0	18.8
IA1022 (SCN)	18.2	18.1	16.7	16.5	18.4
LD02-4485 (SCN)	18.0	16.4	15.5	14.0	16.8
U11-920017	20.8	19.3	18.0	16.8	18.2
CR145192	17.5	15.9	15.8	15.1	19.5
CR145764	18.6	17.8	18.3	17.0	19.2
CR145789	17.4	17.4	18.9	16.8	17.7
CR146131	16.7	16.4	15.0	14.9	16.0
CR147871	17.9	16.4	16.1	16.1	17.8
CR148383	16.7	15.6	14.7	14.9	16.5
E15097	17.6	16.9	16.0	15.2	18.5
E15325	15.9	15.5	15.3	13.5	16.1
E15337	20.4	19.0	17.2	15.7	19.6
E15338	18.7	17.4	16.3	14.9	18.9
E15339	18.2	17.3	15.7	15.0	18.5
E15345	17.0	16.3	15.9	14.8	17.7
E15347	19.1	18.4	17.1	16.3	20.6
E15349	18.4	17.5	15.4	13.8	18.0
E15350	17.5	17.2	15.1	14.4	18.4
E15351	18.6	18.2	16.4	15.3	20.0
E15390	23.2	21.5	18.4	15.6	21.3
M11-336139	19.1	19.4	16.0	15.3	18.4
ORC 1602N	20.0	19.0	16.2	15.2	19.4
ORC 1603N	20.8	18.7	17.4	16.4	19.2
ORC 3616N	23.5	21.8	20.3	17.4	23.3
ORC 7215N	22.7	22.5	20.4	18.2	22.1

PRELIMINARY TEST IIA, 2017

SEED QUALITY (score)

Strain	Mean 10 Tests	Ames IA	Urbana IL	West Lafayette IN	East Lansing MI	Lamberton MN	Waseca MN
IA2102 (II)	1.5	2.0	1.0	1.0		2.0	3.0
IA1022 (SCN)	1.3	1.0	2.0	1.0			2.0
LD02-4485 (SCN)	1.2	1.0	1.0	1.0		2.0	1.0
U11-920017	1.4	1.0	2.0	1.0		2.0	2.0
CR145192	1.3	2.0	1.0	1.0		1.0	2.0
CR145764	1.2	2.0	2.0	1.0		1.0	1.0
CR145789	1.6	2.0	2.0	1.0		2.0	3.0
CR146131	1.2	2.0	1.0	1.0		1.0	1.0
CR147871	1.5	2.0	2.0	1.0		2.0	2.0
CR148383	1.5	2.0	2.0	1.0		2.0	2.0
E15097	1.8	2.0	2.0	1.0		3.0	3.0
E15325	1.3	2.0	1.0	1.0		1.0	2.0
E15337	1.6	2.0	2.0	1.0		3.0	2.0
E15338	1.2	2.0	2.0	1.0		1.0	1.0
E15339	1.3	2.0	2.0	1.0		2.0	1.0
E15345	1.3	1.0	2.0	1.0		2.0	1.0
E15347	1.3	2.0	1.0	1.0		1.0	2.0
E15349	1.4	1.0	2.0	1.0		3.0	2.0
E15350	1.0	1.0	1.0	1.0		1.0	1.0
E15351	1.8	2.0	2.0	1.0		3.0	3.0
E15390	1.2	1.0	2.0	1.0		1.0	2.0
M11-336139	1.4	2.0	1.0	1.0		2.0	2.0
ORC 1602N	1.5	1.0	2.0	1.0		3.0	3.0
ORC 1603N	1.8	3.0	2.0	1.0		3.0	2.0
ORC 3616N	1.6	3.0	2.0	1.0		3.0	2.0
ORC 7215N	1.6	4.0	2.0	1.0		3.0	1.0

PRELIMINARY TEST IIA, 2017**SEED QUALITY (score)**

Strain	Cotesfield NE	Phillips NE	Hoytville OH	Wooster OH	Chatham ONT
IA2102 (II)	1.0	1.5	1.0	1.0	1.0
IA1022 (SCN)	1.0	2.0	1.0	1.0	1.0
LD02-4485 (SCN)	1.0	2.0	1.0	1.0	1.0
U11-920017	1.0	1.5	1.0	1.0	1.0
CR145192	1.0	1.5	1.0	1.0	1.0
CR145764	1.0	1.0	1.0	1.0	1.0
CR145789	2.0	1.0	1.0	1.0	1.0
CR146131	1.0	1.5	1.0	1.0	1.0
CR147871	1.0	1.5	1.0	1.0	1.0
CR148383	1.0	1.5	1.0	1.0	1.0
E15097	1.5	2.0	1.0	1.0	1.0
E15325	1.0	2.0	1.0	1.0	1.0
E15337	1.0	2.0	1.0	1.0	1.0
E15338	1.0	1.0	1.0	1.0	1.0
E15339	1.0	1.0	1.0	1.0	1.0
E15345	1.0	2.0	1.0	1.0	1.0
E15347	1.0	1.5	1.0	1.0	1.0
E15349	1.0	1.0	1.0	1.0	1.0
E15350	1.0	1.0	1.0	1.0	1.0
E15351	2.0	1.5	1.0	1.0	1.0
E15390	1.0	1.0	1.0	1.0	1.0
M11-336139	1.5	1.5	1.0	1.0	1.0
ORC 1602N	1.0	1.0	1.0	1.0	1.0
ORC 1603N	2.0	1.5	1.0	1.0	1.0
ORC 3616N	1.0	1.0	1.0	1.0	1.0
ORC 7215N	1.0	1.0	1.0	1.0	1.0

PRELIMINARY TEST IIA, 2017

PROTEIN (%)

Strain	Mean 9 Tests	Ames IA	Urbana IL	West Laf IN	Lamber- ton MN	Waseca MN	Cotes- field NE	Hoytville OH	Wooster OH	Chatham ONT
IA2102 (II)	33.6	31.2	32.7	32.0	34.6	34.6	34.2	33.9	33.6	35.3
IA1022 (SCN)	31.8	29.5	31.3	30.8			32.2	32.0	33.4	33.1
LD02-4485 (SCN)	32.3	31.6	31.8	32.1	33.8	33.8	33.3	32.0	29.6	32.9
U11-920017	31.9	31.5	32.0	31.6	31.7	31.7	32.7	31.4	31.8	32.6
CR145192	34.0	33.5	34.4	33.2	34.6	34.6	33.6	33.2	33.7	34.8
CR145764	34.7	33.6	34.6	34.1	35.0	35.0	34.9	35.0	34.2	35.6
CR145789	33.6	33.4	34.3	33.2	33.0	33.0	32.9	34.7	33.5	34.3
CR146131	33.9	33.1	33.3	33.3	34.4	34.4	34.6	33.5	33.8	34.7
CR147871	35.2	35.4	35.3	35.1	35.6	35.6	35.8	34.0	33.2	36.7
CR148383	32.5	31.9	32.1	32.1	32.4	32.4	33.9	31.0	32.2	34.4
E15097	33.4	33.9	32.4	33.0	35.6	35.6	32.7	30.4	33.1	34.3
E15325	33.6	32.8	32.4	33.9	35.9	35.9	32.5	32.2	32.9	33.9
E15337	33.6	31.5	33.1	32.7	34.3	34.3	33.8	33.4	34.9	34.0
E15338	33.3	30.4	33.2	32.2	34.5	34.5	34.3	32.7	34.3	33.8
E15339	32.8	30.1	31.4	32.1	34.9	34.9	33.4	31.5	33.4	33.5
E15345	32.9	31.6	32.1	32.2	33.8	33.8	33.1	32.6	32.3	34.6
E15347	32.7	31.5	31.8	30.1	33.8	33.8	34.0	32.9	33.2	33.5
E15349	33.9	31.3	33.4	32.5	34.8	34.8	34.4	33.1	35.3	35.3
E15350	33.2	30.9	33.0	31.8	33.7	33.7	33.8	32.4	35.0	34.3
E15351	32.1	29.7	32.0	30.9	31.7	31.7	33.5	32.3	32.8	34.4
E15390	35.0	33.4	34.6	33.6	36.2	36.2	36.3	34.5	34.1	35.9
M11-336139	34.8	33.6	34.3	33.6	35.4	35.4	35.9	34.2	35.2	36.0
ORC 1602N	35.4	33.6	33.7	33.0	37.7	37.7	36.7	34.1	35.2	36.7
ORC 1603N	35.3	32.0	35.0	33.0	37.7	37.7	37.1	34.8	35.3	35.7
ORC 3616N	34.5	33.8	35.7	32.1	33.1	33.1	35.0	35.7	36.5	35.8
ORC 7215N	35.4	34.3	37.2	34.7	36.6	36.6	34.1	33.4	35.8	35.9

PRELIMINARY TEST IIA, 2017

OIL (%)

Strain	Mean 9 Tests	Ames IA	Urbana IL	West Laf IN	Lamber- ton MN	Waseca MN	Cotes- field NE	Hoytville OH	Wooster OH	Chatham ONT
IA2102 (II)	18.6	19.1	19.6	19.6	18.0	18.0	18.5	18.2	18.3	18.2
IA1022 (SCN)	20.2	21.0	21.1	20.8			19.9	19.5	19.4	19.7
LD02-4485 (SCN)	19.0	19.5	19.5	19.4	18.2	18.2	18.6	18.7	20.1	18.7
U11-920017	19.2	20.0	20.3	19.7	18.2	18.2	18.8	19.1	19.4	19.2
CR145192	19.2	19.6	19.6	19.6	18.8	18.8	19.3	19.4	19.2	19.0
CR145764	18.6	19.3	19.5	19.2	18.0	18.0	18.6	18.2	18.7	17.6
CR145789	18.7	19.6	19.2	19.6	18.2	18.2	18.8	18.6	18.8	17.0
CR146131	19.2	19.6	19.9	19.9	18.8	18.8	18.7	19.2	18.9	18.7
CR147871	18.6	18.6	19.1	18.8	18.2	18.2	18.3	18.7	19.6	18.0
CR148383	19.5	19.6	20.0	20.1	19.5	19.5	19.3	19.7	19.4	18.9
E15097	19.4	20.9	20.2	19.5	17.7	17.7	19.3	20.8	19.0	19.6
E15325	18.0	18.1	19.3	18.0	16.9	16.9	18.2	17.5	18.6	18.4
E15337	18.5	19.3	19.4	18.1	17.8	17.8	18.3	18.3	18.1	19.1
E15338	18.9	20.0	19.6	19.4	18.3	18.3	18.5	18.6	18.4	19.3
E15339	19.5	20.7	20.6	20.0	18.6	18.6	18.7	19.8	19.4	19.3
E15345	18.9	19.4	19.9	19.4	18.5	18.5	18.6	18.7	19.1	18.3
E15347	18.8	19.3	19.5	20.1	18.5	18.5	17.9	18.4	18.7	18.5
E15349	19.0	19.7	19.8	19.4	19.1	19.1	18.8	18.8	17.9	18.8
E15350	19.0	20.1	20.1	19.5	18.5	18.5	18.3	18.6	18.6	18.4
E15351	18.4	20.3	20.1	19.9	15.0	15.0	18.3	18.7	18.9	19.1
E15390	18.5	19.2	19.3	19.1	17.9	17.9	17.5	18.1	19.0	18.3
M11-336139	18.4	18.8	19.2	18.8	17.9	17.9	17.7	18.2	18.3	18.5
ORC 1602N	17.5	18.2	18.9	18.4	16.1	16.1	16.7	17.5	17.8	17.8
ORC 1603N	17.9	19.7	18.5	18.4	16.7	16.7	17.0	17.7	18.3	18.2
ORC 3616N	18.0	19.2	19.2	18.9	16.7	16.7	18.0	17.3	18.0	18.1
ORC 7215N	18.3	19.5	18.2	19.0	17.2	17.2	18.3	19.1	17.9	18.7

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PRELIMINARY TEST IIB, 2017

Ent.	Strain	Parentage	Seed Source	Gen. Comp.	Unique Traits	Germ. %	Sd. Wt. g/100
1	IA2102 (II)	A04-545045 x AgriPro 98180-A01-0613	Cai	F4		83	16.0
2	IA1022 (SCN)	Dairyland 98822 x A00-711024	Cai	F5	SCN	81	15.1
3	LD02-4485 (SCN)	M90-184111 x IA3010	Diers	F5	SCN	94	13.9
4	U11-920017	HS5-3417 x LD02- 4485	Graef	F6	Excellent Rps Resistance	99	17.6
5	LD14-3216	LD07-3395 x G00196G014	Diers	F5		94	16.1
6	LD14-4098a	LD08-4202 x LDX10-277-1-30	Diers	F5	Aphid Rag 1+2	92	16.4
7	LD14-4763a	LD08-12435a x LD10-30023	Diers	F5	Aphid Rag 1+2	88	12.5
8	LD14-6099a	LD09-30015 x LD08-12435a	Diers	F5	SCN, Ripley SDS QTL, Aphid Rag 2	86	14.8
9	LD14-6103a	LD09-30015 x LD08-12435a	Diers	F5	SCN, Ripley SDS QTL, Aphid Rag 2	90	15.0
10	LD14-6363	LD02-4485 x LD09-30463	Diers	F5	SCN, 2 G. soja QTL	94	14.7
11	LG15-2243	F6 LG06-2284 x LG07-8914	Nelson	F6	Exotic G. max Ancestry	92	16.4
12	LG15-2775	LG08-5093 x 06NB204846	Nelson	F6	Two G. soja Ancestors	99	14.1
13	LG15-4486	F6 LG06-2354 x LG08-4955	Nelson	F6	Exotic G. max Ancestry	91	15.6
14	LG15-4695	LG08-3277 x 06NB204846	Nelson	F6	One G. soja Ancestors	93	15.7
15	U14-108041	U11-921041 x U09-210051	Graef	F5	Rsv4, Rps	98	17.2
16	U14-111007	U11-935093 x U09-105007	Graef	F5	IDC, Rps	99	15.8
17	U14-206321	U11-926035 x U09-215057	Graef	F5	IDC, Rps, Dt	94	15.7
18	U14-206326	U11-926035 x U09-215057	Graef	F5	IDC, Rps, Dt	98	16.3
19	U14-213255	U09-407147 x U09-317120	Graef	F5	Rps1K, Rps	99	16.6
20	U14-216260	U11-921041 x U09-210051	Graef	F5	Rsv4, Rps	99	20.4
21	U14-217227	U11-935093 x LD07-3419	Graef	F5	IDC, SCN	94	14.5
22	U14-221187	U09-234083 x U09-312115	Graef	F5	UP2YC4S3, Rps1K, Rps	99	16.9
23	U14-221253	U11-935093 x U09-105007	Graef	F5	IDC, Rps	99	16.2
24	U14-227239	U11-935093 x U09-215057	Graef	F5	IDC, Rps, Dt	98	16.2
25	U14-227255	U11-935093 x U09-215057	Graef	F5	IDC, Rps, Dt	99	15.4
26	U15-613225	U11-611112 x U11-614093	Graef	F5	SCN	99	15.5
27	U15-917133	U09-133005 x U11-614093	Graef	F5	SCN, Rps1K, Rps	99	17.1
28	U15-927115	U11-919011 x U11-641122	Graef	F5	SCN, Diversity	99	15.8
29	U15-929095	U11-611112 x U11-921041	Graef	F5	SCN, Rsv4	98	17.2

PRELIMINARY TEST IIB, 2017
DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	IDC
		Score
		Danvers
IA2102 (II)	WGTDYYI	2.8
IA1022 (SCN)	PGTSYYI	3.5
LD02-4485 (SCN)	PGGDYBfI	2.0
U11-920017	WGTIYBrI	2.5
LD14-3216	P+WlTtIYBI	3.8
LD14-4098a	PTTSYB+BrI	1.8
LD14-4763a	PGTSYDibI	3.3
LD14-6099a	PGTDYBfI	2.8
LD14-6103a	PGTIYBfI	2.0
LD14-6363	PGTDYBfI	4.0
LG15-2243	WTBSYBI	3.0
LG15-2775	PTBSYBI	2.8
LG15-4486	PGBSYBI	2.8
LG15-4695	PGBSYBI	3.8
U14-108041	PGTSYBI	4.3
U14-111007	PTBSYBI	3.3
U14-206321	WGTSYBfD	3.0
U14-206326	WTBSYBD	4.5
U14-213255	WTBIYBrI	3.3
U14-216260	PGTIYBI	4.3
U14-217227	WT+GTSYBI	3.5
U14-221187	PTBSYBI	2.5
U14-221253	PTBSYBI	2.8
U14-227239	PT+GTIYBD	3.5
U14-227255	P+WTBIYBD	3.8
U15-613225	PTTIYLbI	2.3
U15-917133	PTBDYBI	2.5
U15-927115	PT+GBDYBf+BI	4.3
U15-929095	P+WGBSYLbI	3.5

PRELIMINARY TEST IIB, 2017

REGIONAL SUMMARY

No. of Tests Strain	Yield 9 bu/a	Rank 9 No.	Maturity 10 Date	Lodging 10 Score	Plant Height 10 In.	Seed Size 10 g/100	Seed Quality 10 Score	Composition	
								Protein 9 %	Oil 9 %
IA2102 (II)	68.4	22	9/25	1.9	35	17.0	1.3	34.1	18.4
IA1022 (SCN)	55.1	29	-3.2	1.6	30	16.3	1.4	32.2	19.9
LD02-4485 (SCN)	70.5	16	1.5	1.7	35	16.2	1.2	32.3	18.9
U11-920017	73.7	3	1.3	1.5	33	18.7	1.2	32.2	18.4
LD14-3216	69.1	20	2.7	1.7	35	17.6	1.2	33.9	18.3
LD14-4098a	62.1	27	-3.8	1.3	32	17.7	1.3	34.6	18.7
LD14-4763a	57.6	28	-6.5	1.6	31	14.4	1.2	32.4	18.2
LD14-6099a	71.6	10	2.9	1.4	33	16.5	1.2	31.8	19.3
LD14-6103a	70.4	17	2.8	1.6	33	17.5	1.2	31.8	19.1
LD14-6363	68.0	24	3.3	1.7	33	16.2	1.2	33.0	19.1
LG15-2243	69.3	19	5.8	1.9	38	16.3	1.1	34.6	18.3
LG15-2775	70.6	15	7.1	1.8	41	14.7	1.4	34.5	17.9
LG15-4486	71.5	12	6.3	1.8	39	16.5	1.3	33.5	18.2
LG15-4695	67.6	25	3.9	1.9	41	19.2	1.0	34.8	18.4
U14-108041	66.7	26	-2.1	1.7	36	17.5	1.3	34.0	18.4
U14-111007	69.0	21	-1.7	1.6	37	15.5	1.2	32.9	20.0
U14-206321	68.4	22	-0.7	1.5	35	16.8	1.0	33.4	18.5
U14-206326	71.9	8	0.9	1.5	36	17.3	1.0	33.3	18.9
U14-213255	73.8	2	4.7	1.5	37	16.0	1.2	34.5	18.5
U14-216260	74.8	1	0.6	1.5	35	18.7	1.0	32.3	19.7
U14-217227	72.6	6	3.5	1.6	35	15.9	1.2	33.5	18.6
U14-221187	72.1	7	3.4	1.5	35	14.2	1.0	32.6	19.0
U14-221253	71.6	10	-0.5	1.2	34	15.7	1.2	32.6	20.4
U14-227239	71.7	9	2.0	1.5	37	16.3	1.2	33.2	19.1
U14-227255	72.7	5	3.4	1.4	36	16.5	1.2	33.5	19.0
U15-613225	70.1	18	-1.3	1.5	36	16.3	1.3	33.1	19.4
U15-917133	73.5	4	2.3	1.6	37	17.6	1.2	33.6	18.8
U15-927115	71.0	13	1.8	1.5	36	16.2	1.1	32.6	19.5
U15-929095	70.8	14	1.9	1.5	35	17.8	1.0	33.1	19.1
Mean	67.9		26.4	1.6	35.3	16.4	1.2		
C.V. (%)	11.9		10.5	22.6	7.1	6.0	26.5		
L.S.D. (5%)	4.2		1.5	0.2	1.4	0.6	0.2		

124.3 Days After Planting

PRELIMINARY TEST IIB, 2017

YIELD (bu/a)

Strain	Mean 9 Tests	Ames IA	Urbana IL	West Lafayette IN	East* Lansing MI	Lamberton* MN	Waseca MN
IA2102 (II)	68.4	72.8	63.4	58.4	45.2	64.8	67.3
IA1022 (SCN)	55.1	65.2	47.9	47.7	41.9	50.0	57.3
LD02-4485 (SCN)	70.5	72.2	68.2	66.5	52.2	62.4	63.1
U11-920017	73.7	69.8	63.2	64.0	48.9	68.0	64.7
LD14-3216	69.1	62.8	63.3	66.5	52.3	64.2	59.6
LD14-4098a	62.1	72.8	53.1	52.6	50.8	59.3	55.3
LD14-4763a	57.6	61.8	43.8	63.5	42.1	53.2	58.5
LD14-6099a	71.6	72.4	64.1	63.3	49.8	59.8	66.9
LD14-6103a	70.4	78.7	69.8	60.4	39.5	59.3	66.7
LD14-6363	68.0	66.5	60.1	59.0	43.3	56.7	66.8
LG15-2243	69.3	70.9	68.2	61.4	51.7	56.5	56.1
LG15-2775	70.6	59.6	61.8	63.7	47.9	54.9	47.1
LG15-4486	71.5	57.7	69.7	67.6	53.7	52.5	55.8
LG15-4695	67.6	59.8	60.7	58.5	54.5	51.5	51.6
U14-108041	66.7	65.1	52.7	58.6	49.0	44.3	54.5
U14-111007	69.0	61.2	52.6	62.7	44.3	46.3	59.4
U14-206321	68.4	65.2	49.5	66.7	41.7	55.1	63.0
U14-206326	71.9	70.9	52.3	62.2	47.8	45.5	61.6
U14-213255	73.8	70.3	59.0	69.0	42.6	49.9	65.5
U14-216260	74.8	72.0	60.6	70.5	41.5	41.0	64.4
U14-217227	72.6	72.4	63.9	71.3	47.2	50.6	58.4
U14-221187	72.1	63.5	64.9	64.4	53.0	51.7	62.5
U14-221253	71.6	61.5	55.8	66.6	54.6	45.7	61.2
U14-227239	71.7	74.0	57.2	65.7	51.3	51.2	56.9
U14-227255	72.7	62.7	65.7	68.1	44.0	47.7	57.9
U15-613225	70.1	58.6	63.9	64.9	53.5	41.2	56.9
U15-917133	73.5	69.5	64.8	67.4	54.8	52.9	59.9
U15-927115	71.0	79.0	66.7	60.6	50.3	42.2	59.6
U15-929095	70.8	62.3	60.0	63.3	49.8	54.8	56.0
Location Mean		67.3	60.2	63.3	48.2	52.9	59.8
C.V. (%)		7.3	7.2	4.1	16.1	17.0	8.5
L.S.D. (5%)		12.1	8.9	4.4	19.2	18.4	10.4
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 mean.

PRELIMINARY TEST IIB, 2017

YIELD (bu/a)

Strain	Cotesfield NE	Phillips NE	Hoytville OH	Wooster OH	Chatham ONT
IA2102 (II)	78.6	93.4	46.3	55.7	79.3
IA1022 (SCN)	82.0	68.3	57.0	10.8	60.0
LD02-4485 (SCN)	84.5	79.5	68.4	52.5	79.6
U11-920017	96.3	96.2	67.1	68.5	73.8
LD14-3216	90.7	93.3	61.3	55.7	68.3
LD14-4098a	87.0	66.2	68.2	36.7	66.9
LD14-4763a	83.7	58.7	53.9	29.7	65.0
LD14-6099a	87.2	89.1	75.2	49.0	77.1
LD14-6103a	82.7	84.7	64.2	50.2	76.5
LD14-6363	89.3	83.1	66.8	44.8	75.8
LG15-2243	76.0	89.5	67.8	62.5	71.3
LG15-2775	86.5	98.7	72.2	70.7	75.2
LG15-4486	94.5	97.9	67.0	64.7	68.6
LG15-4695	85.5	91.1	61.3	64.9	74.9
U14-108041	97.1	80.6	61.7	58.8	71.4
U14-111007	101.1	87.3	76.2	46.1	74.2
U14-206321	93.9	82.8	65.6	49.5	79.8
U14-206326	103.2	99.4	63.8	56.4	76.9
U14-213255	92.0	103.2	64.5	67.8	72.7
U14-216260	94.3	101.1	72.1	64.3	73.6
U14-217227	83.3	92.2	71.3	67.1	73.8
U14-221187	84.7	99.0	70.6	59.5	79.3
U14-221253	93.0	103.3	73.2	59.2	70.6
U14-227239	99.4	93.5	76.2	49.2	73.7
U14-227255	87.8	99.4	71.8	67.4	73.7
U15-613225	93.4	90.7	70.3	65.5	66.5
U15-917133	88.7	100.0	78.5	60.7	71.7
U15-927115	94.7	90.2	61.4	48.5	78.5
U15-929095	90.0	91.9	75.6	71.0	67.3
Location Mean	89.7	89.8	67.2	55.4	73.0
C.V. (%)	7.5	5.5	11.9	14.5	6.8
L.S.D. (5%)	13.8	10.2	16.4	16.5	10.2
Row Sp. (In.)	30	30	7.5	7.5	17
Rows/Plot	4	4	7	8	5
Reps	2	2	2	2	2

PRELIMINARY TEST IIB, 2017

YIELD RANK

Strain	Yield Rank	Ames IA	Urbana IL	West Lafayette IN	East Lansing MI	Lamberton MN	Waseca MN
IA2102 (II)	22	5	12	27	20	2	1
IA1022 (SCN)	29	17	28	29	26	20	20
LD02-4485 (SCN)	16	8	4	9	8	4	8
U11-920017	3	13	14	14	16	1	6
LD14-3216	20	20	13	9	7	3	15
LD14-4098a	27	4	23	28	11	7	26
LD14-4763a	28	23	29	16	25	13	17
LD14-6099a	10	7	9	17	14	5	2
LD14-6103a	17	2	1	23	29	6	4
LD14-6363	24	15	18	24	23	8	3
LG15-2243	19	11	3	21	9	9	23
LG15-2775	15	27	15	15	17	11	29
LG15-4486	12	29	2	5	4	15	25
LG15-4695	25	26	16	26	3	17	28
U14-108041	26	18	24	25	15	26	27
U14-111007	21	25	25	19	21	23	16
U14-206321	22	16	27	7	27	10	9
U14-206326	8	10	26	20	18	25	11
U14-213255	2	12	20	3	24	21	5
U14-216260	1	9	17	2	28	29	7
U14-217227	6	6	10	1	19	19	18
U14-221187	7	19	7	13	6	16	10
U14-221253	10	24	22	8	2	24	12
U14-227239	9	3	21	11	10	18	21
U14-227255	5	21	6	4	22	22	19
U15-613225	18	28	10	12	5	28	22
U15-917133	4	15	8	6	1	14	13
U15-927115	13	1	5	22	12	27	14
U15-929095	14	22	19	17	13	12	24

PRELIMINARY TEST IIB, 2017

YIELD RANK

Strain	Cotesfield NE	Phillips NE	Hoytville OH	Wooster OH	Chatham ONT
IA2102 (II)	28	12	27	17	3
IA1022 (SCN)	27	27	25	28	29
LD02-4485 (SCN)	23	26	12	18	2
U11-920017	5	10	15	3	13
LD14-3216	13	13	24	17	24
LD14-4098a	19	28	13	26	26
LD14-4763a	24	29	26	27	28
LD14-6099a	18	20	4	22	6
LD14-6103a	26	22	20	19	8
LD14-6363	15	23	17	25	9
LG15-2243	29	19	14	11	21
LG15-2775	20	8	6	2	10
LG15-4486	7	9	16	9	23
LG15-4695	21	16	24	8	11
U14-108041	4	25	22	15	20
U14-111007	2	21	2	24	12
U14-206321	9	24	18	20	1
U14-206326	1	5	21	16	7
U14-213255	12	2	19	4	18
U14-216260	8	3	7	10	17
U14-217227	25	14	9	6	14
U14-221187	22	7	10	13	4
U14-221253	11	1	5	14	22
U14-227239	3	11	2	21	15
U14-227255	17	6	8	5	16
U15-613225	10	17	11	7	27
U15-917133	16	4	1	12	19
U15-927115	6	18	23	23	5
U15-929095	14	15	3	1	25

PRELIMINARY TEST IIB, 2017

MATURITY (date)

Strain	Mean 10 Tests	Ames IA	Urbana IL	West Lafayette IN	East Lansing MI	Lamberton MN	Waseca MN
IA2102 (II)	9/25	9/17	9/12	9/26	9/29	10/13	10/8
IA1022 (SCN)	-3	-5	-4	-2	-2		-8
LD02-4485 (SCN)	1	2	1	3	2	2	4
U11-920017	1	2	0	0	0	2	3
LD14-3216	3	0	4	1	2	3	4
LD14-4098a	-4	-5	-4	-3	-4	-8	-6
LD14-4763a	-7	-5	-8	-3	-5	-10	-7
LD14-6099a	3	0	2	5	4	4	5
LD14-6103a	3	3	5	5	-1	3	7
LD14-6363	3	5	4	6	0	3	3
LG15-2243	6	8	8	6	5	6	7
LG15-2775	7	7	9	8	7	7	12
LG15-4486	6	6	8	8	5	4	11
LG15-4695	4	6	3	2	4	2	6
U14-108041	-2	-3	0	1	-2	-10	-4
U14-111007	-2	-2	-1	-1	-1	-8	-4
U14-206321	-1	2	-2	-1	-2	-3	-1
U14-206326	1	0	1	3	2	-3	2
U14-213255	5	6	6	7	3	2	5
U14-216260	1	4	3	1	-1	-6	-1
U14-217227	3	5	6	8	1	-1	0
U14-221187	3	5	4	6	5	1	3
U14-221253	-1	-1	1	0	0	-5	-5
U14-227239	2	4	4	3	4	-1	-2
U14-227255	3	4	5	6	3	-0	4
U15-613225	-1	0	0	0	1	-7	-4
U15-917133	2	4	3	1	5	0	1
U15-927115	2	5	4	4	-1	-1	-0
U15-929095	2	-2	1	5	3	-2	-2
Date Planted	5/24	5/9	5/16	6/2	6/2	5/15	5/31
Days to Mature	124	131	119	116	119	151	130

PRELIMINARY TEST IIB, 2017

MATURITY (date)

Strain	Cotesfield NE	Phillips NE	Hoytville OH	Wooster OH	Chatham ONT
IA2102 (II)		9/15	9/25	9/22	9/27
IA1022 (SCN)		-3	-1	-3	-1
LD02-4485 (SCN)		-1	1	-1	2
U11-920017		1	1	1	3
LD14-3216		5	3	5	1
LD14-4098a		-6	0	-4	2
LD14-4763a		-7	-3	-8	-10
LD14-6099a		0	2	2	5
LD14-6103a		1	1	0	4
LD14-6363		3	2	2	4
LG15-2243		5	3	4	7
LG15-2775		6	3	5	7
LG15-4486		7	4	5	6
LG15-4695		4	4	3	5
U14-108041		-2	0	-2	0
U14-111007		0	0	-1	0
U14-206321		0	0	-1	-1
U14-206326		1	4	-1	1
U14-213255		6	2	3	7
U14-216260		3	3	-1	1
U14-217227		3	3	3	7
U14-221187		6	2	1	1
U14-221253		2	1	0	2
U14-227239		4	1	0	3
U14-227255		4	3	4	2
U15-613225		-2	-1	0	-1
U15-917133		4	1	2	2
U15-927115		3	2	0	1
U15-929095		2	6	4	4
Date Planted		5/15	6/1	5/24	5/31
Days to Mature		123	116	121	119

PRELIMINARY TEST IIB, 2017

LODGING (score)

Strain	Mean 10 Tests	Ames IA	Urbana IL	West Lafayette IN	East Lansing MI	Lamberton MN	Waseca MN
IA2102 (II)	1.9	3.5	1.0	2.0	1.5	2.0	4.0
IA1022 (SCN)	1.6	2.8	1.0	1.5	1.0		3.0
LD02-4485 (SCN)	1.7	2.8	1.8	1.0	1.0	2.0	3.5
U11-920017	1.5	2.3	1.0	1.0	1.0	2.0	3.5
LD14-3216	1.7	2.0	1.0	1.0	1.0	2.5	4.0
LD14-4098a	1.3	1.5	1.0	1.0	1.0	1.5	3.0
LD14-4763a	1.6	2.5	1.0	1.5	1.0	2.0	3.0
LD14-6099a	1.4	2.3	1.0	1.0	1.0	2.0	3.0
LD14-6103a	1.6	2.3	1.0	1.5	1.0	2.5	3.0
LD14-6363	1.7	2.3	1.0	2.0	1.0	2.0	3.5
LG15-2243	1.9	3.3	1.5	1.5	1.0	2.5	4.0
LG15-2775	1.8	3.0	1.3	1.5	1.0	3.0	3.5
LG15-4486	1.8	3.0	1.3	1.8	1.0	2.5	3.5
LG15-4695	1.9	3.0	1.0	2.0	1.0	2.5	4.0
U14-108041	1.7	2.8	1.0	2.0	1.0	1.0	4.0
U14-111007	1.6	2.0	1.0	1.5	1.0	2.0	3.0
U14-206321	1.5	1.8	1.0	1.0	1.0	2.0	3.0
U14-206326	1.5	2.0	1.0	1.0	1.0	1.5	3.0
U14-213255	1.5	2.3	1.0	1.0	1.0	1.5	3.0
U14-216260	1.5	2.3	1.0	1.3	1.0	1.5	3.5
U14-217227	1.6	1.8	1.0	1.5	1.0	2.0	3.5
U14-221187	1.5	2.0	1.0	1.5	1.0	2.0	3.0
U14-221253	1.2	1.8	1.0	1.0	1.0	1.0	2.0
U14-227239	1.5	1.5	1.0	1.5	1.0	2.0	3.0
U14-227255	1.4	1.5	1.0	1.5	1.0	1.5	3.0
U15-613225	1.5	1.8	1.0	2.0	1.0	1.5	3.0
U15-917133	1.6	2.3	1.0	2.0	1.0	1.5	3.0
U15-927115	1.5	2.5	1.0	1.8	1.0	1.5	3.0
U15-929095	1.5	2.0	1.0	1.5	1.0	1.5	3.0

PRELIMINARY TEST IIB, 2017

LODGING (score)

Strain	Cotesfield NE	Phillips NE	Hoytville OH	Wooster OH	Chatham ONT
IA2102 (II)		2.0	1.0	1.0	1.0
IA1022 (SCN)		2.0	1.0	1.0	1.0
LD02-4485 (SCN)		1.5	1.0	1.0	1.0
U11-920017		1.5	1.0	1.0	1.0
LD14-3216		2.0	1.0	1.0	1.0
LD14-4098a		1.0	1.0	1.0	1.0
LD14-4763a		2.0	1.0	1.0	1.0
LD14-6099a		1.0	1.0	1.0	1.0
LD14-6103a		1.5	1.0	1.0	1.0
LD14-6363		2.0	1.0	1.0	1.0
LG15-2243		2.5	1.0	1.0	1.0
LG15-2775		2.0	1.0	1.0	1.0
LG15-4486		2.0	1.0	1.0	1.0
LG15-4695		2.0	1.0	1.0	1.0
U14-108041		2.0	1.0	1.0	1.0
U14-111007		2.0	1.0	1.0	1.0
U14-206321		2.0	1.0	1.0	1.0
U14-206326		2.0	1.0	1.0	1.0
U14-213255		2.0	1.0	1.0	1.0
U14-216260		1.0	1.0	1.0	1.0
U14-217227		2.0	1.0	1.0	1.0
U14-221187		1.5	1.0	1.0	1.0
U14-221253		1.0	1.0	1.0	1.0
U14-227239		1.5	1.0	1.0	1.0
U14-227255		1.0	1.0	1.0	1.0
U15-613225		2.0	1.0	1.0	1.0
U15-917133		2.0	1.0	1.0	1.0
U15-927115		1.5	1.0	1.0	1.0
U15-929095		1.5	1.0	1.0	1.0

PRELIMINARY TEST IIB, 2017

PLANT HEIGHT (inches)

Strain	Mean 10 Tests	Ames IA	Urbana IL	West Lafayette IN	East Lansing MI	Lamberton MN	Waseca MN
IA2102 (II)	35	42	36	31	37	34	40
IA1022 (SCN)	30	38	32	28	31		39
LD02-4485 (SCN)	35	43	39	31	39	32	44
U11-920017	33	39	36	30	32	33	40
LD14-3216	35	42	37	33	37	39	42
LD14-4098a	32	37	32	40	32	34	36
LD14-4763a	31	37	30	30	33	33	40
LD14-6099a	33	39	35	31	34	35	39
LD14-6103a	33	39	35	31	29	34	39
LD14-6363	33	40	35	34	31	35	39
LG15-2243	38	45	39	36	37	41	43
LG15-2775	41	49	40	38	40	41	56
LG15-4486	39	49	41	39	41	42	47
LG15-4695	41	47	42	41	48	38	48
U14-108041	36	42	36	33	37	36	43
U14-111007	37	42	38	37	40	37	48
U14-206321	35	42	35	37	34	34	45
U14-206326	36	41	36	38	39	37	43
U14-213255	37	43	40	36	38	37	42
U14-216260	35	39	34	36	32	34	42
U14-217227	35	41	38	34	33	37	44
U14-221187	35	41	37	35	39	35	41
U14-221253	34	40	34	35	36	33	41
U14-227239	37	43	38	40	38	38	44
U14-227255	36	42	37	34	34	37	45
U15-613225	36	42	38	36	39	35	43
U15-917133	37	43	39	35	38	39	43
U15-927115	36	43	36	37	34	34	44
U15-929095	35	43	36	37	34	34	45

PRELIMINARY TEST IIB, 2017

PLANT HEIGHT (inches)

Strain	Cotesfield NE	Phillips NE	Hoytville OH	Wooster OH	Chatham ONT
IA2102 (II)		42	29	25	31
IA1022 (SCN)		40	19	17	29
LD02-4485 (SCN)		41	25	24	34
U11-920017		39	26	25	31
LD14-3216		42	29	24	30
LD14-4098a		36	25	22	32
LD14-4763a		37	26	20	28
LD14-6099a		36	30	23	31
LD14-6103a		42	26	22	31
LD14-6363		42	24	22	33
LG15-2243		47	29	27	33
LG15-2775		50	30	30	35
LG15-4486		44	29	26	37
LG15-4695		50	32	32	37
U14-108041		39	28	26	37
U14-111007		45	27	23	33
U14-206321		44	29	24	31
U14-206326		42	27	27	34
U14-213255		44	31	28	32
U14-216260		45	25	27	35
U14-217227		44	26	23	34
U14-221187		41	27	25	33
U14-221253		42	27	22	32
U14-227239		45	30	25	33
U14-227255		42	28	26	33
U15-613225		44	27	28	31
U15-917133		45	29	28	33
U15-927115		42	29	24	34
U15-929095		40	25	27	33

PRELIMINARY TEST IIB, 2017

SEED SIZE (g/100)

Strain	Mean 10 Tests	Ames IA	Urbana IL	West Lafayette IN	East Lansing MI	Lamberton MN	Waseca MN
IA2102 (II)	17.0	17.8	15.1	15.8		17.6	18.3
IA1022 (SCN)	16.3	15.6	14.5	15.6			16.4
LD02-4485 (SCN)	16.2	16.1	14.6	14.6		17.5	17.7
U11-920017	18.7	18.3	15.4	18.0		19.8	20.0
LD14-3216	17.6	18.5	16.6	16.0		18.8	18.3
LD14-4098a	17.7	18.9	16.0	17.8		20.9	21.4
LD14-4763a	14.4	15.0	11.5	13.8		15.3	15.0
LD14-6099a	16.5	16.7	14.8	15.4		18.1	18.3
LD14-6103a	17.5	17.6	16.7	16.7		19.2	19.1
LD14-6363	16.2	15.8	14.6	15.9		17.3	16.8
LG15-2243	16.3	16.6	15.7	15.4		17.5	18.2
LG15-2775	14.7	13.4	13.7	14.2		16.0	14.5
LG15-4486	16.5	15.6	15.4	14.8		17.0	17.9
LG15-4695	19.2	18.6	16.2	18.4		20.2	20.1
U14-108041	17.5	17.5	14.5	16.0		17.0	18.5
U14-111007	15.5	14.7	12.3	15.2		16.8	16.9
U14-206321	16.8	16.6	13.0	16.7		17.9	17.3
U14-206326	17.3	17.1	14.2	16.2		18.2	18.8
U14-213255	16.0	15.1	12.9	15.2		16.7	18.3
U14-216260	18.7	17.6	16.5	18.5		19.3	20.7
U14-217227	15.9	15.3	13.9	15.9		16.4	16.7
U14-221187	14.2	13.2	11.6	14.0		15.2	15.9
U14-221253	15.7	14.0	13.9	15.8		16.3	17.5
U14-227239	16.3	15.3	13.9	16.4		16.7	18.3
U14-227255	16.5	16.3	14.7	15.8		17.4	18.4
U15-613225	16.3	16.6	14.0	15.7		17.1	16.7
U15-917133	17.6	17.2	16.5	17.2		18.6	19.7
U15-927115	16.2	16.1	14.7	15.4		17.3	16.6
U15-929095	17.8	18.2	15.9	18.0		19.3	18.7

PRELIMINARY TEST IIB, 2017

SEED SIZE (g/100)

Strain	Cotesfield NE	Phillips NE	Hoytville OH	Wooster OH	Chatham ONT
IA2102 (II)	17.7	18.1	16.1	13.9	19.6
IA1022 (SCN)	18.1	18.1	15.8	14.7	17.8
LD02-4485 (SCN)	17.8	15.9	15.8	13.6	18.0
U11-920017	20.6	19.9	18.0	17.3	20.3
LD14-3216	18.4	18.3	16.5	15.6	18.6
LD14-4098a	19.2	18.9	17.6	15.1	11.4
LD14-4763a	15.2	14.7	14.5	13.8	15.2
LD14-6099a	17.8	16.7	14.9	14.4	18.1
LD14-6103a	18.4	18.2	16.3	14.3	18.5
LD14-6363	18.0	16.3	15.6	14.5	17.0
LG15-2243	17.2	16.8	15.2	13.8	16.6
LG15-2775	16.3	15.0	14.8	14.2	15.2
LG15-4486	17.6	16.9	16.8	15.8	17.8
LG15-4695	20.7	19.8	19.0	18.1	21.1
U14-108041	18.8	18.0	16.7	14.9	23.0
U14-111007	18.1	16.1	15.0	13.5	16.7
U14-206321	19.3	18.1	15.7	14.3	18.7
U14-206326	20.1	19.5	16.3	14.6	17.9
U14-213255	17.6	15.8	16.2	14.7	17.5
U14-216260	21.5	19.1	17.2	16.4	20.2
U14-217227	17.2	16.4	15.6	14.2	17.8
U14-221187	14.7	14.1	13.8	13.4	16.2
U14-221253	17.1	16.4	15.7	13.6	16.6
U14-227239	19.3	16.6	15.9	13.4	16.8
U14-227255	17.7	17.4	16.2	14.4	16.4
U15-613225	18.1	17.1	15.4	14.3	17.5
U15-917133	19.4	18.7	16.4	14.4	18.2
U15-927115	18.5	16.0	15.8	14.1	18.1
U15-929095	19.4	17.7	16.8	15.2	19.3

PRELIMINARY TEST IIB, 2017

SEED QUALITY (score)

Strain	Mean 10 Tests	Ames IA	Urbana IL	West Lafayette IN	East Lansing MI	Lamberton MN	Waseca MN
IA2102 (II)	1.3	1.0	2.0	1.0		2.0	1.0
IA1022 (SCN)	1.4	1.0	2.0	1.0			2.0
LD02-4485 (SCN)	1.2	1.0	1.0	1.0		2.0	1.0
U11-920017	1.2	1.0	2.0	1.0		1.0	1.0
LD14-3216	1.2	2.0	1.0	1.0		1.0	1.0
LD14-4098a	1.3	2.0	1.0	1.0		1.0	2.0
LD14-4763a	1.2	1.0	1.0	1.0		1.0	2.0
LD14-6099a	1.2	1.0	2.0	1.0		1.0	1.0
LD14-6103a	1.2	1.0	1.0	1.0		2.0	1.0
LD14-6363	1.2	1.0	1.0	1.0		2.0	1.0
LG15-2243	1.1	1.0	1.0	1.0		1.0	1.0
LG15-2775	1.4	2.0	1.0	1.0		2.0	2.0
LG15-4486	1.3	1.0	1.0	1.0		2.0	2.0
LG15-4695	1.0	1.0	1.0	1.0		1.0	1.0
U14-108041	1.3	1.0	1.0	1.0		3.0	1.0
U14-111007	1.2	1.0	1.0	1.0		2.0	1.0
U14-206321	1.0	1.0	1.0	1.0		1.0	1.0
U14-206326	1.0	1.0	1.0	1.0		1.0	1.0
U14-213255	1.2	2.0	1.0	1.0		1.0	1.0
U14-216260	1.0	1.0	1.0	1.0		1.0	1.0
U14-217227	1.2	1.0	1.0	1.0		2.0	1.0
U14-221187	1.0	1.0	1.0	1.0		1.0	1.0
U14-221253	1.2	1.0	1.0	1.0		1.0	1.0
U14-227239	1.2	1.0	2.0	1.0		1.0	1.0
U14-227255	1.2	1.0	1.0	1.0		2.0	1.0
U15-613225	1.3	1.0	2.0	1.0		1.0	2.0
U15-917133	1.2	1.0	1.0	1.0		1.0	2.0
U15-927115	1.1	1.0	1.0	1.0		1.0	1.0
U15-929095	1.0	1.0	1.0	1.0		1.0	1.0

PRELIMINARY TEST IIB, 2017

SEED QUALITY (score)

Strain	Cotesfield NE	Phillips NE	Hoytville OH	Wooster OH	Chatham ONT
IA2102 (II)	1.0	1.5	1.0	1.0	1.0
IA1022 (SCN)	1.5	2.0	1.0	1.0	1.0
LD02-4485 (SCN)	1.0	2.0	1.0	1.0	1.0
U11-920017	1.0	2.0	1.0	1.0	1.0
LD14-3216	1.0	1.5	1.0	1.0	1.0
LD14-4098a	1.0	2.0	1.0	1.0	1.0
LD14-4763a	1.0	2.0	1.0	1.0	1.0
LD14-6099a	1.0	1.5	1.0	1.0	1.0
LD14-6103a	1.0	1.5	1.0	1.0	1.0
LD14-6363	1.0	1.5	1.0	1.0	1.0
LG15-2243	1.5	1.5	1.0	1.0	1.0
LG15-2775	1.0	1.5	1.0	1.0	1.0
LG15-4486	1.5	1.0	1.0	1.0	1.0
LG15-4695	1.0	1.0	1.0	1.0	1.0
U14-108041	1.5	1.5	1.0	1.0	1.0
U14-111007	1.0	2.0	1.0	1.0	1.0
U14-206321	1.0	1.0	1.0	1.0	1.0
U14-206326	1.0	1.0	1.0	1.0	1.0
U14-213255	1.0	1.5	1.0	1.0	1.0
U14-216260	1.0	1.0	1.0	1.0	1.0
U14-217227	1.0	1.5	1.0	1.0	1.0
U14-221187	1.0	1.0	1.0	1.0	1.0
U14-221253	1.5	2.0	1.0	1.0	1.0
U14-227239	1.0	2.0	1.0	1.0	1.0
U14-227255	1.0	1.5	1.0	1.0	1.0
U15-613225	1.0	2.0	1.0	1.0	1.0
U15-917133	1.0	2.0	1.0	1.0	1.0
U15-927115	1.0	2.0	1.0	1.0	1.0
U15-929095	1.0	1.0	1.0	1.0	1.0

PRELIMINARY TEST IIB, 2017

PROTEIN (%)

Strain	Mean 9 Tests	Ames IA	Urbana IL	West Laf IN	Lamber- ton MN	Waseca MN	Cotes- field NE	Hoytville OH	Wooster OH	Chatham ONT
IA2102 (II)	34.1	33.1	33.9	33.2	34.0	35.8	33.4	33.9	34.4	35.5
IA1022 (SCN)	32.2	30.1	32.1	31.8		34.1	31.9	32.0	32.3	33.0
LD02-4485 (SCN)	32.3	31.6	30.0	32.7	32.2	34.3	33.5	31.9	30.7	33.6
U11-920017	32.2	30.2	31.2	34.9	32.2	32.2	30.8	32.6	32.6	33.1
LD14-3216	33.9	33.5	33.3	34.6	35.1	35.1	36.3	31.9	33.1	32.2
LD14-4098a	34.6	33.3	32.5	35.8	35.3	36.2	35.1	33.5	34.8	35.4
LD14-4763a	32.4	30.9	32.8	32.7	31.5	35.4	32.0	31.5	32.1	32.7
LD14-6099a	31.8	30.7	30.3	33.0	32.0	33.5	31.5	31.0	30.9	33.2
LD14-6103a	31.8	31.2	31.4	32.1	32.0	32.2	32.9	31.1	30.9	32.5
LD14-6363	33.0	32.1	33.2	32.8	32.4	34.5	34.1	31.9	32.1	33.6
LG15-2243	34.6	34.5	35.4	33.6	34.8	35.6	35.0	33.7	33.2	35.2
LG15-2775	34.5	34.4	34.1	32.6	36.8	35.1	35.1	33.0	34.3	35.1
LG15-4486	33.5	33.3	33.6	32.2	32.1	35.8	34.9	32.5	33.1	33.8
LG15-4695	34.8	33.5	34.5	33.9	33.2	38.8	35.9	33.6	34.1	35.5
U14-108041	34.0	33.2	33.7	32.3	34.5	37.1	34.4	33.2	33.4	34.6
U14-111007	32.9	32.0	31.4	32.7	34.6	34.6	33.7	30.8	32.4	34.4
U14-206321	33.4	33.0	32.6	31.8	33.3	36.3	33.9	32.2	34.2	33.3
U14-206326	33.3	32.6	31.7	32.7	32.7	37.1	34.0	31.7	33.3	34.2
U14-213255	34.5	33.7	32.7	33.4	33.0	41.2	34.9	33.3	33.3	34.6
U14-216260	32.3	31.8	31.3	31.9	31.1	34.3	32.9	31.5	32.6	33.5
U14-217227	33.5	32.7	32.9	33.0	32.9	34.6	34.6	32.1	33.7	35.0
U14-221187	32.6	31.7	31.4	32.7	32.4	35.8	32.4	31.2	32.7	33.1
U14-221253	32.6	31.7	31.8	32.2	31.2	34.2	33.9	31.7	33.4	33.0
U14-227239	33.2	32.3	32.6	33.0	32.5	35.8	32.4	32.3	33.5	34.7
U14-227255	33.5	33.2	31.2	33.8	32.6	35.6	34.0	33.3	33.5	34.4
U15-613225	33.1	32.2	31.7	32.7	33.6	35.3	34.1	32.2	32.4	33.2
U15-917133	33.6	32.5	31.6	34.8	33.5	35.6	34.9	32.6	33.2	33.9
U15-927115	32.6	31.4	31.9	33.5	33.0	34.6	32.9	30.5	32.0	33.2
U15-929095	33.1	31.2	32.0	34.2	33.6	35.0	33.8	31.8	32.6	33.5

PRELIMINARY TEST IIB, 2017

OIL (%)

Strain	Mean 9 Tests	Ames IA	Urbana IL	West Laf IN	Lamber- ton MN	Waseca MN	Cotes- field NE	Hoytville OH	Wooster OH	Chatham ONT
IA2102 (II)	18.4	18.6	19.4	18.9	18.2	17.4	18.2	18.1	18.0	18.8
IA1022 (SCN)	19.9	20.9	20.9	20.1		18.7	19.3	19.4	19.4	20.2
LD02-4485 (SCN)	18.9	19.0	20.3	18.5	18.7	18.0	18.3	18.6	19.3	19.3
U11-920017	18.4	19.9	20.5	15.6	18.8	18.2	15.0	19.0	19.0	19.7
LD14-3216	18.3	18.2	19.6	18.3	17.6	17.3	16.9	18.5	18.7	19.5
LD14-4098a	18.7	19.4	19.9	18.8	17.8	16.8	18.5	18.7	19.1	19.5
LD14-4763a	18.2	19.2	19.0	18.5	18.5	14.0	18.3	18.0	18.6	19.4
LD14-6099a	19.3	19.7	20.7	19.3	18.9	18.5	19.4	19.3	19.5	18.8
LD14-6103a	19.1	19.4	20.2	19.1	18.8	18.3	18.6	18.8	19.3	19.5
LD14-6363	19.1	19.7	20.0	19.6	16.6	18.3	18.6	19.5	19.6	19.7
LG15-2243	18.3	18.4	19.1	19.6	17.4	17.3	17.8	18.2	18.5	18.1
LG15-2775	17.9	18.3	18.8	18.9	15.9	17.2	17.3	18.5	18.5	17.9
LG15-4486	18.2	18.5	18.6	18.7	18.7	17.2	17.6	18.4	18.3	17.9
LG15-4695	18.4	19.3	19.8	19.3	18.6	13.7	18.5	19.1	18.8	18.3
U14-108041	18.4	19.1	19.5	19.0	18.1	16.9	18.1	18.4	17.6	19.1
U14-111007	20.0	20.7	21.2	20.4	19.3	18.7	19.6	20.2	19.7	20.5
U14-206321	18.5	18.8	19.5	19.1	18.3	16.8	18.5	18.2	18.0	19.2
U14-206326	18.9	19.4	20.1	19.7	18.8	16.3	18.6	18.9	19.0	19.2
U14-213255	18.5	19.0	19.9	19.2	19.6	13.6	18.8	18.7	18.9	19.0
U14-216260	19.7	19.9	20.7	19.8	19.9	18.7	19.3	19.4	19.6	20.2
U14-217227	18.6	19.0	19.7	18.9	18.5	17.5	18.0	18.4	18.4	19.1
U14-221187	19.0	20.2	20.7	19.6	19.6	14.4	19.3	19.6	19.3	18.5
U14-221253	20.4	20.1	21.1	21.1	20.8	19.1	20.1	20.5	19.9	20.9
U14-227239	19.1	19.9	20.1	19.5	19.2	17.6	18.6	19.1	18.6	18.9
U14-227255	19.0	19.5	20.4	19.1	19.3	17.3	18.7	19.0	18.7	19.3
U15-613225	19.4	19.8	20.7	19.6	19.0	18.0	18.8	19.3	19.3	20.1
U15-917133	18.8	19.4	20.2	18.6	18.8	17.4	18.2	19.0	19.1	18.6
U15-927115	19.5	20.0	20.5	19.3	19.3	18.3	19.5	19.7	19.1	19.8
U15-929095	19.1	19.9	20.3	18.7	18.8	18.0	18.8	19.0	18.9	19.3

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UNIFORM TEST III, 2017

Ent.	Strain	Parentage	Seed Source	Previous Testing	Gen. Comp.	Unique Traits	Germ. %	Sd. Wt. g/100
1	LD11-2170 (III)	Syngenta 03JR313108 x LD05-3171	Diers	2	F5	SCN	94	15.3
2	IA3048 (SCN)	Dairyland 99540 x IA2068	Cai	9	F4	SCN	80	15.6
3	LD07-3395bf (SCN)	LD07-3395 Reselection	Diers	2	F5	SCN	88	15.4
4	U11-920017	HS5-3417 x LD02- 4485	Graef	3	F6	Excellent Rps Resistance	99	17.6
5	DSN11-06152	IA3023 x CL0J173-6-8	Diers/Rainey	1	F5		97	14.7
6	LD13-3483	LD07-3395 x CL06-121119	Diers	SCNPIII	F5	SCN	94	15.9
7	LD13-5775a	AR09-291001 x LD08-4767a	Diers	SCNPIII	F5	SCN, Aphid Rag 1	94	14.5
8	LG14-6165	06NB204846 x LG04-5190	Nelson	PTIIIA	F6	Genetic Diversity	94	18.0
9	SA12-1455	CL06-121119 x S07-5117	Scaboo	1	F5		93	16.3
10	SA13-1310	K07-1633 x LD04-13265	Scaboo	PTIIIA	F4		91	15.6
11	SA13-1363	K07-1633 x LD04-13265	Scaboo	PTIIIA	F4		93	15.5
12	SA13-1385	K07-1633 x LD04-13265	Scaboo	PTIIIA	F4		92	14.4
13	SA13-2047	LD07-3419 x LG06-5920	Scaboo	PTIIIA	F4		93	12.1
14	SA13-2489	LD07-3419 x K07-1633	Scaboo	PTIIIA	F4		92	13.5
15	SA13-2699	LS07-3125 x LD04-13265	Scaboo	PTIIIA	F4		95	15.4
16	SA13-3135	LS07-3125 x LG07-2309	Scaboo	PTIIIA	F4		91	15.7
17	U12-428210	Dairyland 75517 x K07-1544	Graef	1	F5	SCN	99	16.1
18	U13-231286	LD04-13265 x UX2759-1 (F1)	Graef	PTIIIB	F5	SCN(HR, LR), Rps, Dt	99	14.5
19	U13-931068	U03-260216 x U10-425065	Graef	1	F5	Rps, SCN	94	17.5
20	U14-605217	U09-215057 x LD07-3419	Graef	PTIIIB	F5	Rps, Dt, SCN	98	17.5
21	U14-924158	U11-935093 x LD07-3419	Graef	PTIIIB	F5	IDC, SCN, HR, R	99	15.0

UNIFORM TEST III, 2017
DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	Green Stem Score South Charleston
LD11-2170 (III)	PLtBDYBrI	1.0
IA3048 (SCN)	WGTSYYI	1.0
LD07-3395bf (SCN)	WGTIYBfI	3.0
U11-920017	WGTIYBrI	1.0
DSN11-06152	WGTSYBI	1.0
LD13-3483	WGTDYBfI	2.0
LD13-5775a	WTTDYBrI	1.0
LG14-6165	WTBSYBI	1.0
SA12-1455	WTBDYLbI	3.3
SA13-1310	PTBSYBI	3.0
SA13-1363	PTBSYBI	2.3
SA13-1385	WTBIYBI	2.7
SA13-2047	WGTSYBI	2.0
SA13-2489	WGTDYBfI	1.3
SA13-2699	PGTDYBrI	3.3
SA13-3135	PGTDYDibI	1.7
U12-428210	WTBIYDibI	2.7
U13-231286	P+WTBSYBI	1.7
U13-931068	PTBDYBI	1.3
U14-605217	WGTIYB+BfI	2.0
U14-924158	PGTSYBI	1.0

UNIFORM TEST III, 2017

REGIONAL SUMMARY

No. of Tests Strain	Yield 13 bu/a	Rank 13 No.	Maturity 13 Date	Lodging 13 Score	Plant Height 13 In.	Seed Size 14 g/100	Seed Quality 14 Score	Composition	
								Protein 9 %	Oil 9 %
LD11-2170 (III)	70.2	7	9/25	1.2	32	16.4	1.3	34.1	19.7
IA3048 (SCN)	66.5	14	0.2	1.7	34	15.9	1.3	34.2	18.5
LD07-3395bf (SCN)	68.4	10	5.2	1.5	32	16.5	1.5	31.8	20.3
U11-920017	63.0	20	-4.5	1.5	32	17.2	1.5	31.8	19.8
DSN11-06152	67.6	13	0.4	1.4	32	16.0	1.3	32.5	19.2
LD13-3483	68.2	11	3.2	1.5	32	16.1	1.4	33.9	18.4
LD13-5775a	65.5	17	-0.1	1.5	39	14.8	1.4	34.1	19.5
LG14-6165	66.0	16	1.1	1.8	36	18.9	1.6	34.1	19.2
SA12-1455	72.7	1	7.5	1.3	32	18.0	1.4	35.3	18.9
SA13-1310	70.5	4	6.5	1.4	35	16.7	1.3	35.0	18.5
SA13-1363	68.7	9	6.2	1.5	34	15.2	1.3	33.4	19.3
SA13-1385	70.3	5	6.0	1.5	35	15.3	1.3	33.1	19.2
SA13-2047	63.2	19	3.4	1.7	34	14.1	1.3	33.0	19.1
SA13-2489	64.2	18	2.0	1.1	30	14.8	1.3	32.0	19.8
SA13-2699	67.8	12	7.1	1.3	37	15.8	1.3	34.6	18.4
SA13-3135	61.4	21	4.9	1.3	33	15.9	1.4	32.9	19.5
U12-428210	70.1	8	6.3	1.4	37	16.0	1.3	33.2	20.0
U13-231286	70.3	5	4.7	1.1	33	15.4	1.3	34.1	19.0
U13-931068	66.3	15	2.0	1.4	36	16.5	1.3	33.4	19.0
U14-605217	70.8	3	2.5	1.4	35	17.2	1.4	32.1	19.8
U14-924158	72.4	2	-0.1	1.2	33	15.0	1.3	31.0	20.2
Mean	66.3		28.1	1.4	33.8	16.0	1.4		
C.V. (%)	10.3		6.3	42.9	7.8	6.8	27.5		
L.S.D. (5%)	2.8		0.7	0.3	1.1	0.6	0.2		

123.9 Days After Planting

UNIFORM TEST III, 2017

2016-2017 2-YEAR MEAN

No. of Tests Strain	Yield 30 bu/a	Rank 30 No.	Maturity 29 Date	Lodging 29 Score	Plant Height 28 In.	Seed Size 30 g/100	Seed Quality 30 Score	Composition	
								Protein 15 %	Oil 15 %
LD11-2170 (III)	71.3	2	9/24	1.4	34	16.1	1.6	34.4	19.9
IA3048 (SCN)	66.9	7	-0.2	2.1	36	15.6	1.5	34.7	18.8
LD07-3395bf (SCN)	68.6	4	3.6	1.8	34	16.2	1.7	32.1	20.5
U11-920017	62.9	8	-4.6	1.7	34	16.8	1.8	32.4	20.1
DSN11-06152	67.5	6	0.2	1.5	34	15.8	1.5	32.8	19.4
SA12-1455	73.1	1	6.4	1.5	35	17.8	1.6	35.7	19.1
U12-428210	69.7	3	4.8	1.8	40	16.0	1.6	33.9	20.0
U13-931068	67.6	5	1.3	1.9	38	16.7	1.6	33.6	19.2

125.1 Days After Planting

UNIFORM TEST III, 2017

YIELD (bu/a)

Strain	Mean 13 Tests	Crawfords- ville IA	Arthur IL	Urbana IL	Butler- ville IN	Wanatah IN	West Lafayette IN
LD11-2170 (III)	70.2	83.1	70.7	68.5	54.3	64.4	70.0
IA3048 (SCN)	66.5	76.9	74.3	70.7	49.5	56.7	66.8
LD07-3395bf (SCN)	68.4	78.9	80.6	70.5	59.6	58.9	67.1
U11-920017	63.0	79.8	77.0	65.3	41.9	62.8	63.2
DSN11-06152	67.6	85.1	70.1	64.5	51.9	54.0	69.6
LD13-3483	68.2	82.2	74.0	66.4	54.3	60.0	66.6
LD13-5775a	65.5	73.5	62.7	62.4	58.7	62.8	62.0
LG14-6165	66.0	76.4	79.6	66.1	48.3	59.0	63.0
SA12-1455	72.7	81.2	76.9	67.5	47.9	58.0	68.2
SA13-1310	70.5	82.9	78.8	66.6	58.1	54.4	65.9
SA13-1363	68.7	77.4	73.6	63.9	56.5	57.1	67.0
SA13-1385	70.3	79.7	69.5	63.4	55.6	58.1	67.2
SA13-2047	63.2	67.0	69.1	64.3	53.5	61.3	62.5
SA13-2489	64.2	80.3	69.7	55.4** ²	47.1	54.9	61.4
SA13-2699	67.8	75.7	64.8	61.9	53.9	50.6	63.7
SA13-3135	61.4	71.5	63.0	49.3** ²	53.1	49.7	59.3
U12-428210	70.1	82.2	63.9	64.3	59.7	62.4	76.1
U13-231286	70.3	82.3	71.5	59.3* ¹	40.7	61.0	73.1
U13-931068	66.3	79.0	73.0	58.9	50.9	58.9	67.5
U14-605217	70.8	83.3	77.5	61.8	59.5	58.9	74.1
U14-924158	72.4	85.1	73.5	67.0	57.8	64.8	68.0
Location Mean		79.2	72.1	65.2	53.0	58.5	66.8
C.V. (%)		3.3	7.7	4.7	5.3	5.6	4.8
L.S.D. (5%)		6.6	11.5	6.3	3.9	4.5	4.4
Row Sp. (In.)		30	30	30	30	30	30
Rows/Plot		4	4	4	4	4	4
Reps		2	2	2	3	3	3

*Data not included in the mean.

*¹ one rep poor stand, **² both reps poor stands

UNIFORM TEST III, 2017

YIELD (bu/a)

Strain	Manhattan KS	Albany MO	Novelty MO	Holdrege NE	Steven's Creek NE	Wymore NE
LD11-2170 (III)	77.1	59.0	71.5	86.5	77.6	72.6
IA3048 (SCN)	73.3	60.7	64.7	77.3	72.0	75.0
LD07-3395bf (SCN)	79.4	60.6	68.5	70.6	62.8	82.0
U11-920017	57.3	60.7	62.5	78.5	65.2	67.5
DSN11-06152	66.2	55.2	66.6	88.1	75.3	81.3
LD13-3483	81.6	59.9	64.4	67.7	76.8	76.0
LD13-5775a	76.6	53.9	63.1	79.8	78.4	67.8
LG14-6165	64.4	61.8	68.5	76.0	69.0	83.2
SA12-1455	85.1	65.6	60.7	88.4	80.8	98.4
SA13-1310	77.1	60.2	69.2	88.1	74.7	88.8
SA13-1363	88.6	56.6	69.5	65.8	78.1	84.7
SA13-1385	85.5	64.2	69.4	81.5	75.0	91.6
SA13-2047	78.6	60.7	61.7	61.5	74.1	62.3
SA13-2489	59.7	60.8	60.0	75.7	74.5	80.7
SA13-2699	88.5	62.2	66.0	78.9	76.0	82.3
SA13-3135	75.9	55.0	56.7	76.2	74.3	62.1
U12-428210	67.7	65.8	66.2	78.0	72.5	92.0
U13-231286	78.6	63.8	69.2	81.0	78.1	93.3
U13-931068	65.1	58.1	65.6	72.6	80.1	80.3
U14-605217	63.7	70.1	71.2	77.7	82.9	90.2
U14-924158	85.6	61.2	66.0	95.3	88.8	75.5
Location Mean	75.0	60.8	65.8	78.3	75.6	80.4
C.V. (%)	7.5	6.9	8.1	11.2	7.1	12.1
L.S.D. (5%)	9.3	6.9	8.7	18.8	11.1	20.3
Row Sp. (In.)	30	30	30	30	30	30
Rows/Plot	4	4	4	4	4	4
Reps	3	3	3	2	2	2

UNIFORM TEST III, 2017

YIELD (bu/a)

Strain	Hoytville* OH	So Charles- ton OH
LD11-2170 (III)	53.7	57.5
IA3048 (SCN)	61.9	47.0
LD07-3395bf (SCN)	60.0	49.2
U11-920017	59.2	37.4
DSN11-06152	57.5	50.7
LD13-3483	56.7	57.1
LD13-5775a	59.6	49.5
LG14-6165	53.7	42.6
SA12-1455	60.7	65.9
SA13-1310	68.4	51.2
SA13-1363	69.6	53.6
SA13-1385	71.3	53.6
SA13-2047	57.4	45.1
SA13-2489	56.9	45.9
SA13-2699	58.9	56.5
SA13-3135	43.7	40.3
U12-428210	75.3	60.6
U13-231286	59.6	50.7
U13-931068	63.7	52.5
U14-605217	71.6	49.4
U14-924158	51.2	53.1
Location Mean	60.5	50.9
C.V. (%)	16.3	13.8
L.S.D. (5%)	16.3	14.1
Row Sp. (In.)	7.5	15
Rows/Plot	8	6
Reps	3	3

*Data not included in the mean.

UNIFORM TEST III, 2017

YIELD RANK

Strain	Yield Rank	Crawfordsville IA	Arthur IL	Urbana IL	Butlerville IN	Wanatah IN	West Lafayette IN
LD11-2170 (III)	7	4	13	3	9	2	4
IA3048 (SCN)	14	16	7	1	16	16	12
LD07-3395bf (SCN)	10	14	1	2	2	10	10
U11-920017	20	11	5	9	20	3	16
DSN11-06152	13	2	14	10	14	19	5
LD13-3483	11	7	8	7	9	8	13
LD13-5775a	17	19	21	15	4	3	19
LG14-6165	16	17	2	8	17	9	17
SA12-1455	1	9	6	4	18	14	6
SA13-1310	4	5	3	6	5	18	14
SA13-1363	9	15	9	13	7	15	11
SA13-1385	5	12	16	14	8	13	9
SA13-2047	19	21	17	11	12	6	18
SA13-2489	18	10	15	20	19	17	20
SA13-2699	12	18	18	16	11	20	15
SA13-3135	21	20	20	21	13	21	21
U12-428210	8	8	19	11	1	5	1
U13-231286	5	6	12	18	21	7	3
U13-931068	15	13	11	19	15	10	8
U14-605217	3	3	4	17	3	10	2
U14-924158	2	1	10	5	6	1	7

UNIFORM TEST III, 2017

YIELD RANK

Strain	Manhattan KS	Albany MO	Novelty MO	Holdrege NE	Steven's Creek NE	Wymore NE
LD11-2170 (III)	10	16	1	5	8	17
IA3048 (SCN)	14	10	14	13	18	16
LD07-3395bf (SCN)	7	13	7	18	21	10
U11-920017	21	11	17	10	20	19
DSN11-06152	16	19	9	3	11	11
LD13-3483	6	15	15	19	9	14
LD13-5775a	12	21	16	8	5	18
LG14-6165	18	7	8	15	19	8
SA12-1455	5	3	19	2	3	1
SA13-1310	10	14	5	4	13	6
SA13-1363	1	18	3	20	6	7
SA13-1385	4	4	4	6	12	4
SA13-2047	8	12	18	21	16	20
SA13-2489	20	9	20	16	14	12
SA13-2699	2	6	11	9	10	9
SA13-3135	13	20	21	14	15	21
U12-428210	15	2	10	11	17	3
U13-231286	8	5	6	7	7	2
U13-931068	17	17	13	17	4	13
U14-605217	19	1	2	12	2	5
U14-924158	3	8	12	1	1	15

UNIFORM TEST III, 2017**YIELD RANK**

Strain	Hoytville OH	So Charles- ton OH
LD11-2170 (III)	17	3
IA3048 (SCN)	7	16
LD07-3395bf (SCN)	9	15
U11-920017	11	21
DSN11-06152	13	11
LD13-3483	16	4
LD13-5775a	10	13
LG14-6165	17	19
SA12-1455	8	1
SA13-1310	5	10
SA13-1363	4	6
SA13-1385	3	6
SA13-2047	14	18
SA13-2489	15	17
SA13-2699	12	5
SA13-3135	19	20
U12-428210	1	2
U13-231286	10	11
U13-931068	6	9
U14-605217	2	14
U14-924158	18	8

UNIFORM TEST III, 2017

MATURITY (date)

Strain	Mean 13 Tests	Crawfords- ville IA	Arthur IL	Urbana IL	Butler- ville IN	Wanatah IN	West Lafayette IN
LD11-2170 (III)	9/25	9/24	9/19	9/18	9/26	10/1	10/4
IA3048 (SCN)	0	2	1	1	1	-3	-1
LD07-3395bf (SCN)	5	4	4	6	8	1	8
U11-920017	-5	-6	-7	-4	-4	-3	-1
DSN11-06152	0	0	-1	1	2	-1	1
LD13-3483	3	5	2	4	6	2	3
LD13-5775a	-0	1	0	1	1	-3	-1
LG14-6165	1	1	1	4	2	0	0
SA12-1455	7	7	7	11	8	6	7
SA13-1310	7	7	6	8	7	5	8
SA13-1363	6	9	5	8	7	6	5
SA13-1385	6	2	6	10	6	5	5
SA13-2047	3	2	3	4	6	3	2
SA13-2489	2	2	1	4	3	2	2
SA13-2699	7	8	7	11	9	6	8
SA13-3135	5	4	4	8	8	6	3
U12-428210	6	8	7	10	7	6	4
U13-231286	5	6	6	9	2	4	1
U13-931068	2	3	1	2	1	3	2
U14-605217	3	3	1	3	5	2	3
U14-924158	-0	-2	-3	0	2	3	-2
Date Planted	5/24	5/16	5/17	5/16	6/6	5/30	6/2
Days to Mature	124	131	125	125	112	124	124

UNIFORM TEST III, 2017

MATURITY (date)

Strain	Manhattan KS	Albany MO	Novelty MO	Holdrege NE	Steven's Creek NE	Wymore NE
LD11-2170 (III)	9/21	9/26	9/19		9/29	9/21
IA3048 (SCN)	2	3	0		0	0
LD07-3395bf (SCN)	7	6	6		6	3
U11-920017	-4	-2	-7		-3	-4
DSN11-06152	-2	3	1		0	1
LD13-3483	5	2	2		4	1
LD13-5775a	0	-0	1		0	2
LG14-6165	-0	3	1		1	1
SA12-1455	9	9	8		6	6
SA13-1310	8	9	7		7	4
SA13-1363	6	9	7		6	3
SA13-1385	8	7	8		5	6
SA13-2047	5	6	4		4	-1
SA13-2489	2	5	2		0	2
SA13-2699	7	8	8		8	4
SA13-3135	7	6	7		4	2
U12-428210	5	8	7		5	5
U13-231286	5	8	6		5	3
U13-931068	0	7	2		3	1
U14-605217	1	5	1		3	1
U14-924158	0	1	0		-3	1
Date Planted	5/25	6/3	5/16		5/31	5/13
Days to Mature	119	115	126		121	131

UNIFORM TEST III, 2017

MATURITY (date)

Strain	Hoytville OH	So Charles- ton OH
LD11-2170 (III)	10/2	9/28
IA3048 (SCN)	-1	-1
LD07-3395bf (SCN)	7	2
U11-920017	-6	-8
DSN11-06152	1	-1
LD13-3483	5	1
LD13-5775a	-1	-2
LG14-6165	2	-2
SA12-1455	9	5
SA13-1310	5	4
SA13-1363	6	4
SA13-1385	5	4
SA13-2047	7	0
SA13-2489	0	2
SA13-2699	7	2
SA13-3135	6	0
U12-428210	7	4
U13-231286	5	1
U13-931068	1	0
U14-605217	4	1
U14-924158	3	-2
Date Planted	6/1	5/16
Days to Mature	123	135

UNIFORM TEST III, 2017

LODGING (score)

Strain	Mean 13 Tests	Crawfords- ville IA	Arthur IL	Urbana IL	Butler- ville IN	Wanatah IN	West Lafayette IN
LD11-2170 (III)	1.2	1.8	1.0	1.0	1.0	1.0	1.0
IA3048 (SCN)	1.7	2.5	2.3	1.3	1.0	1.3	1.3
LD07-3395bf (SCN)	1.5	2.0	1.5	1.0	1.0	1.0	1.5
U11-920017	1.5	2.0	1.3	1.0	1.0	1.5	1.0
DSN11-06152	1.4	1.8	1.5	1.0	1.0	1.3	1.0
LD13-3483	1.5	2.5	1.8	1.0	1.0	1.0	1.0
LD13-5775a	1.5	2.5	2.0	1.0	1.0	1.5	1.0
LG14-6165	1.8	3.5	2.0	1.0	1.0	1.5	1.0
SA12-1455	1.3	2.0	1.3	1.0	1.0	1.0	1.0
SA13-1310	1.4	2.5	1.8	1.0	1.3	1.0	1.0
SA13-1363	1.5	2.3	2.0	1.0	1.0	1.0	1.0
SA13-1385	1.5	2.8	2.0	1.0	1.5	1.0	1.0
SA13-2047	1.7	2.8	2.0	1.3	1.2	1.5	1.2
SA13-2489	1.1	1.5	1.0	1.0	1.0	1.0	1.2
SA13-2699	1.3	2.5	1.5	1.0	1.0	1.0	1.0
SA13-3135	1.3	2.3	1.5	1.0	1.0	1.0	1.0
U12-428210	1.4	2.5	1.5	1.0	1.0	1.0	1.0
U13-231286	1.1	1.8	1.3	1.0	1.0	1.0	1.0
U13-931068	1.4	2.5	2.0	1.0	1.0	1.0	1.0
U14-605217	1.4	2.3	1.5	1.0	1.0	1.0	1.2
U14-924158	1.2	1.8	1.0	1.0	1.0	1.0	1.3

UNIFORM TEST III, 2017

LODGING (score)

Strain	Manhattan KS	Albany MO	Novelty MO	Holdrege NE	Steven's Creek NE	Wymore NE
LD11-2170 (III)	1.0	1.5	1.5		1.0	1.5
IA3048 (SCN)	2.5	2.0	1.5		2.0	1.5
LD07-3395bf (SCN)	1.0	1.5	1.3		3.0	1.0
U11-920017	1.0	2.3	1.5		3.0	1.0
DSN11-06152	1.0	1.5	1.5		2.0	2.5
LD13-3483	1.0	1.7	1.7		2.0	1.5
LD13-5775a	1.3	1.5	1.3		1.0	1.5
LG14-6165	1.3	1.8	1.8		3.0	2.5
SA12-1455	1.0	1.5	1.3		1.0	2.5
SA13-1310	1.0	1.3	1.5		2.0	1.0
SA13-1363	1.0	1.5	1.7		2.0	1.5
SA13-1385	1.5	1.5	1.5		1.0	1.0
SA13-2047	1.7	1.5	1.8		2.0	2.0
SA13-2489	1.2	1.3	1.5		1.0	1.0
SA13-2699	1.0	1.3	1.3		1.0	1.0
SA13-3135	1.0	1.5	1.7		2.0	1.0
U12-428210	1.3	1.5	1.3		2.0	1.5
U13-231286	1.0	1.2	1.2		1.0	1.5
U13-931068	1.3	1.5	1.5		2.0	1.5
U14-605217	1.0	1.7	1.5		2.0	1.5
U14-924158	1.0	1.3	1.3		1.0	1.5

UNIFORM TEST III, 2017**LODGING (score)**

Strain	Hoytville OH	So Charles- ton OH
LD11-2170 (III)	1.0	1.0
IA3048 (SCN)	1.0	1.7
LD07-3395bf (SCN)	1.0	2.3
U11-920017	1.0	2.1
DSN11-06152	1.0	1.4
LD13-3483	1.0	1.8
LD13-5775a	1.0	2.9
LG14-6165	1.0	1.8
SA12-1455	1.0	1.8
SA13-1310	1.0	1.8
SA13-1363	1.0	2.2
SA13-1385	1.0	2.1
SA13-2047	1.0	2.4
SA13-2489	1.0	1.2
SA13-2699	1.0	2.4
SA13-3135	1.0	1.5
U12-428210	1.0	2.0
U13-231286	1.0	1.0
U13-931068	1.0	1.4
U14-605217	1.0	1.0
U14-924158	1.0	1.6

UNIFORM TEST III, 2017

PLANT HEIGHT (inches)

Strain	Mean 13 Tests	Crawfords- ville IA	Arthur IL	Urbana IL	Butler- ville IN	Wanatah IN	West Lafayette IN
LD11-2170 (III)	32	43	38	34	25	29	30
IA3048 (SCN)	34	43	41	36	32	34	30
LD07-3395bf (SCN)	32	40	37	34	27	32	32
U11-920017	32	39	38	35	25	40	35
DSN11-06152	32	45	41	34	24	30	33
LD13-3483	32	43	39	33	27	34	31
LD13-5775a	39	55	43	43	25	41	32
LG14-6165	36	49	43	36	27	39	39
SA12-1455	32	41	38	31	27	34	36
SA13-1310	35	45	43	35	26	35	33
SA13-1363	34	44	40	33	29	35	31
SA13-1385	35	51	40	36	32	33	33
SA13-2047	34	44	40	37	26	35	36
SA13-2489	30	38	36	28	28	29	33
SA13-2699	37	49	44	37	32	38	33
SA13-3135	33	43	39	33	29	35	38
U12-428210	37	48	42	39	31	37	36
U13-231286	33	42	36	31	30	35	35
U13-931068	36	48	42	39	27	38	35
U14-605217	35	46	42	36	31	34	38
U14-924158	33	43	38	34	27	36	35

UNIFORM TEST III, 2017

PLANT HEIGHT (inches)

Strain	Manhattan KS	Albany MO	Novelty MO	Holdrege NE	Steven's Creek NE	Wymore NE
LD11-2170 (III)	34	29	30		40	31
IA3048 (SCN)	36	32	33		40	38
LD07-3395bf (SCN)	33	29	29		38	35
U11-920017	31	31	28		38	31
DSN11-06152	33	28	28		41	33
LD13-3483	33	29	27		40	35
LD13-5775a	38	33	37		50	44
LG14-6165	36	32	32		48	36
SA12-1455	34	29	28		38	36
SA13-1310	34	32	31		48	39
SA13-1363	36	29	31		38	40
SA13-1385	40	34	33		37	39
SA13-2047	33	32	31		38	37
SA13-2489	29	27	24		37	32
SA13-2699	39	30	32		46	42
SA13-3135	36	28	28		40	38
U12-428210	36	37	33		45	42
U13-231286	36	28	29		40	35
U13-931068	37	33	33		43	42
U14-605217	34	33	30		46	39
U14-924158	30	28	30		42	33

UNIFORM TEST III, 2017**PLANT HEIGHT (inches)**

Strain	Hoytville OH	So Charles- ton OH
LD11-2170 (III)	24	27
IA3048 (SCN)	25	28
LD07-3395bf (SCN)	23	27
U11-920017	25	26
DSN11-06152	23	27
LD13-3483	24	29
LD13-5775a	28	35
LG14-6165	27	28
SA12-1455	23	28
SA13-1310	25	31
SA13-1363	25	29
SA13-1385	25	27
SA13-2047	24	28
SA13-2489	23	25
SA13-2699	24	30
SA13-3135	21	28
U12-428210	29	33
U13-231286	23	24
U13-931068	27	29
U14-605217	24	29
U14-924158	22	26

UNIFORM TEST III, 2017

SEED SIZE (g/100)

Strain	Mean 14 Tests	Crawfords- ville IA	Arthur IL	Urbana IL	Butler- ville IN	Wanatah IN	West Lafayette IN
LD11-2170 (III)	16.4	17.1	15.0	16.6	15.2	16.3	15.4
IA3048 (SCN)	15.9	17.0	15.1	15.6	15.6	15.9	15.1
LD07-3395bf (SCN)	16.5	17.7	15.9	17.0	15.2	16.0	15.7
U11-920017	17.2	18.1	16.3	16.7	16.4	18.5	13.6
DSN11-06152	16.0	17.5	15.1	16.0	14.6	16.3	15.6
LD13-3483	16.1	16.8	15.1	15.8	15.4	14.9	16.0
LD13-5775a	14.8	16.3	12.4	14.2	13.5	13.1	12.9
LG14-6165	18.9	20.0	19.3	19.8	17.1	17.2	17.8
SA12-1455	18.0	17.9	16.8	18.8	17.9	17.0	17.5
SA13-1310	16.7	17.5	14.3	17.0	15.9	14.4	16.0
SA13-1363	15.2	15.7	13.7	14.7	15.4	15.0	14.3
SA13-1385	15.3	15.1	13.2	15.0	14.3	19.1	14.5
SA13-2047	14.1	15.5	13.4	14.2	13.2	13.9	12.5
SA13-2489	14.8	15.1	14.5	14.1	14.7	14.8	14.1
SA13-2699	15.8	17.3	14.1	16.6	15.2	14.5	14.9
SA13-3135	15.9	17.2	14.5	15.7	15.6	15.0	15.8
U12-428210	16.0	17.6	14.2	16.9	14.6	14.9	15.6
U13-231286	15.4	15.8	14.2	15.5	13.6	13.9	15.8
U13-931068	16.5	17.4	16.2	16.8	15.9	14.1	16.2
U14-605217	17.2	18.3	16.8	16.2	17.2	14.8	15.5
U14-924158	15.0	15.2	13.4	14.6	14.7	14.3	14.1

UNIFORM TEST III, 2017

SEED SIZE (g/100)

Strain	Manhattan KS	Albany MO	Novelty MO	Holdrege NE	Steven's Creek NE	Wymore NE
LD11-2170 (III)	18.3	16.9	15.4	17.5	18.1	16.5
IA3048 (SCN)	18.1	16.2	14.8	16.9	15.3	15.4
LD07-3395bf (SCN)	17.8	17.1	16.2	16.9	16.2	15.8
U11-920017	18.1	17.8	15.9	19.9	17.9	18.7
DSN11-06152	14.9	16.1	15.5	17.2	17.2	16.6
LD13-3483	18.1	16.2	15.0	16.5	16.3	15.6
LD13-5775a	16.4	15.7	14.6	15.5	17.3	14.2
LG14-6165	20.7	19.3	19.2	20.5	19.2	19.4
SA12-1455	18.2	18.0	17.4	18.4	19.0	17.8
SA13-1310	18.1	17.6	16.3	17.9	18.3	16.6
SA13-1363	16.1	16.6	14.6	16.0	16.0	14.5
SA13-1385	16.0	16.1	14.6	16.8	15.1	15.4
SA13-2047	16.5	13.3	13.5	15.4	15.1	13.6
SA13-2489	13.4	16.5	15.5	15.3	14.5	14.8
SA13-2699	17.8	16.4	15.2	16.6	15.8	15.5
SA13-3135	16.5	17.3	15.7	16.3	15.8	15.2
U12-428210	16.8	16.1	14.3	18.3	16.5	15.8
U13-231286	16.1	16.7	14.8	16.1	15.6	15.7
U13-931068	17.0	17.4	17.3	17.3	16.6	17.0
U14-605217	17.4	19.2	17.4	18.5	17.8	17.5
U14-924158	16.1	15.6	13.6	16.7	15.3	15.8

UNIFORM TEST III, 2017**SEED SIZE (g/100)**

Strain	Hoytville OH	So Charles- ton OH
LD11-2170 (III)	16.2	15.9
IA3048 (SCN)	17.5	14.9
LD07-3395bf (SCN)	17.8	15.6
U11-920017	17.3	15.8
DSN11-06152	16.6	14.7
LD13-3483	17.5	15.8
LD13-5775a	15.9	14.0
LG14-6165	18.5	16.9
SA12-1455	18.8	18.2
SA13-1310	18.2	15.9
SA13-1363	16.1	14.3
SA13-1385	16.0	13.8
SA13-2047	14.3	13.7
SA13-2489	16.5	13.3
SA13-2699	16.3	14.8
SA13-3135	16.4	15.3
U12-428210	17.1	15.3
U13-231286	17.6	14.3
U13-931068	16.6	15.2
U14-605217	18.5	16.3
U14-924158	16.5	14.2

UNIFORM TEST III, 2017

SEED QUALITY (score)

Strain	Mean 14 Tests	Crawfords- ville IA	Arthur IL	Urbana IL	Butler- ville IN	Wanatah IN	West Lafayette IN
LD11-2170 (III)	1.3	1.0	1.0	2.0	1.0	1.0	1.0
IA3048 (SCN)	1.3	1.0	1.0	2.0	1.0	1.0	1.0
LD07-3395bf (SCN)	1.5	1.0	1.0	2.0	1.0	1.0	1.0
U11-920017	1.5	1.0	2.0	2.0	1.0	1.0	1.0
DSN11-06152	1.3	1.0	1.0	2.0	1.0	1.0	1.0
LD13-3483	1.4	1.0	1.0	2.0	1.0	1.0	1.0
LD13-5775a	1.4	1.0	1.0	2.0	1.0	1.0	1.0
LG14-6165	1.6	1.0	2.0	2.0	1.0	1.0	1.0
SA12-1455	1.4	1.0	1.0	2.0	1.0	1.0	1.0
SA13-1310	1.3	1.0	1.0	2.0	1.0	1.0	1.0
SA13-1363	1.3	1.0	1.0	1.0	1.0	1.0	1.0
SA13-1385	1.3	1.0	1.0	1.0	1.0	1.0	1.0
SA13-2047	1.3	1.0	1.0	2.0	1.0	1.0	1.0
SA13-2489	1.3	1.0	1.0	2.0	1.0	1.0	1.0
SA13-2699	1.3	1.0	1.0	2.0	1.0	1.0	1.0
SA13-3135	1.4	1.0	1.0	2.0	1.0	1.0	1.0
U12-428210	1.3	1.0	1.0	1.0	1.0	1.0	1.0
U13-231286	1.3	1.0	1.0	2.0	1.0	1.0	1.0
U13-931068	1.3	1.0	1.0	2.0	1.0	1.0	1.0
U14-605217	1.4	1.0	1.0	2.0	1.0	1.0	1.0
U14-924158	1.3	1.0	1.0	2.0	1.0	1.0	1.0

UNIFORM TEST III, 2017

SEED QUALITY (score)

Strain	Manhattan KS	Albany MO	Novelty MO	Holdrege NE	Steven's Creek NE	Wymore NE
LD11-2170 (III)	2.0	1.5	1.5	1.0	2.0	1.0
IA3048 (SCN)	2.0	1.5	1.0	1.0	1.5	2.0
LD07-3395bf (SCN)	3.0	1.5	2.0	1.0	2.0	2.5
U11-920017	3.0	1.5	1.5	1.0	2.0	1.5
DSN11-06152	2.0	1.5	1.0	1.0	1.0	1.5
LD13-3483	3.0	1.5	2.0	1.0	1.5	1.5
LD13-5775a	3.0	2.0	1.5	1.0	1.0	1.5
LG14-6165	3.0	2.0	1.5	1.0	2.0	1.5
SA12-1455	3.0	1.5	1.5	1.0	1.0	2.0
SA13-1310	2.0	1.5	1.0	1.0	1.5	1.0
SA13-1363	2.0	2.0	1.5	1.0	2.0	1.5
SA13-1385	3.0	1.5	1.5	1.0	1.0	1.5
SA13-2047	2.0	1.5	1.5	1.5	1.5	1.0
SA13-2489	2.0	2.0	1.5	1.0	2.0	1.0
SA13-2699	2.0	1.5	1.5	1.0	1.0	1.5
SA13-3135	3.0	2.0	1.5	1.0	1.0	1.0
U12-428210	3.0	1.5	1.0	1.0	1.5	2.0
U13-231286	2.0	1.5	1.5	1.0	1.0	1.5
U13-931068	2.0	2.0	1.0	1.0	1.0	1.5
U14-605217	2.0	2.0	2.0	1.0	1.5	1.0
U14-924158	2.0	1.5	1.5	1.0	1.0	2.0

UNIFORM TEST III, 2017**SEED QUALITY (score)**

Strain	Hoytville OH	So Charles- ton OH
LD11-2170 (III)	1.0	1.7
IA3048 (SCN)	1.0	1.7
LD07-3395bf (SCN)	1.0	1.7
U11-920017	1.0	1.3
DSN11-06152	1.0	1.7
LD13-3483	1.0	1.7
LD13-5775a	1.0	1.7
LG14-6165	1.0	2.0
SA12-1455	1.0	1.3
SA13-1310	1.0	1.7
SA13-1363	1.0	1.3
SA13-1385	1.0	1.0
SA13-2047	1.0	1.7
SA13-2489	1.0	1.3
SA13-2699	1.0	1.7
SA13-3135	1.0	2.0
U12-428210	1.0	1.7
U13-231286	1.0	1.0
U13-931068	1.0	2.0
U14-605217	1.0	1.7
U14-924158	1.0	1.7

UNIFORM TEST III, 2017

PROTEIN (%)

Strain	Mean 9 Tests	Crawfords- ville IA	Arthur IL	Urbana IL	Butler- ville IN	West Laf IN	Albany MO	Holdrege NE	Steven's Creek NE	Hoytville OH
LD11-2170 (III)	34.1	33.5	32.0	33.5	35.3	34.0	33.5	35.0	36.3	33.5
IA3048 (SCN)	34.2	35.0	32.5	34.4	33.4	33.3	33.7	35.6	36.8	33.7
LD07-3395bf (SCN)	31.8	33.0	29.6	32.7	32.3	30.2	32.4	32.2	34.0	29.5
U11-920017	31.8	31.7	31.9	30.8	32.4	29.4	30.6	33.7	33.9	32.1
DSN11-06152	32.5	32.4	31.4	32.9	32.8	31.4	31.8	33.1	35.8	30.9
LD13-3483	33.9	34.6	32.3	34.2	34.5	32.7	33.8	35.0	36.6	31.2
LD13-5775a	34.1	35.0	32.3	34.2	34.7	32.5	33.6	35.8	35.7	33.2
LG14-6165	34.1	34.4	32.8	34.8	36.1	32.4	34.0	34.3	35.6	33.1
SA12-1455	35.3	35.1	35.4	35.3	36.9	34.4	34.2	35.4	37.5	34.0
SA13-1310	35.0	34.5	32.5	32.6	34.1	33.4	43.9	35.7	34.5	33.5
SA13-1363	33.4	33.8	31.9	33.1	34.1	31.8	33.0	34.7	35.7	32.9
SA13-1385	33.1	33.6	31.0	32.9	36.0	31.2	33.2	34.4	34.2	31.6
SA13-2047	33.0	34.2	31.8	32.2	34.4	31.6	31.9	34.2	36.0	31.1
SA13-2489	32.0	32.1	30.3	32.8	32.3	31.0	31.7	32.1	33.7	31.6
SA13-2699	34.6	34.4	32.6	35.4	34.9	33.9	33.6	35.9	35.8	35.2
SA13-3135	32.9	32.6	31.8	30.4	33.3	32.0	33.5	35.0	35.1	32.2
U12-428210	33.2	33.3	31.1	33.8	34.2	33.1	32.2	32.9	35.5	32.9
U13-231286	34.1	34.6	31.8	35.1	34.6	32.6	33.4	35.2	36.7	33.1
U13-931068	33.4	33.6	32.2	32.7	34.5	33.0	33.3	34.6	35.1	31.7
U14-605217	32.1	32.0	31.2	31.1	33.0	30.7	30.6	34.2	35.0	31.1
U14-924158	31.0	30.4	29.1	31.4	31.5	28.7	31.0	32.2	34.1	30.3

UNIFORM TEST III, 2017

OIL (%)

Strain	Mean 9 Tests	Crawfords- ville IA	Arthur IL	Urbana IL	Butler- ville IN	West Laf IN	Albany MO	Holdrege NE	Steven's Creek NE	Hoytville OH
LD11-2170 (III)	19.7	19.3	20.5	19.9	20.2	19.6	20.3	18.8	19.1	19.4
IA3048 (SCN)	18.5	17.5	19.2	18.5	20.3	18.7	18.9	17.2	17.6	18.4
LD07-3395bf (SCN)	20.3	19.8	20.6	20.0	20.4	20.8	20.8	20.0	19.5	20.7
U11-920017	19.8	19.6	20.9	20.3	19.3	20.5	20.7	18.7	19.1	18.9
DSN11-06152	19.2	18.4	19.6	19.8	19.5	19.5	20.0	18.7	18.0	19.1
LD13-3483	18.4	17.6	19.1	19.2	19.0	18.5	19.2	17.2	17.7	18.1
LD13-5775a	19.5	19.2	20.4	19.5	18.7	20.0	20.5	18.8	19.1	19.4
LG14-6165	19.2	18.7	19.8	19.7	18.5	19.6	20.0	18.6	18.3	19.5
SA12-1455	18.9	18.4	19.3	19.2	19.0	19.2	19.7	18.1	18.1	19.1
SA13-1310	18.5	18.7	20.0	20.1	20.0	19.7	12.2	18.1	18.4	18.9
SA13-1363	19.3	18.6	19.9	19.6	19.8	19.7	20.5	17.9	18.5	18.9
SA13-1385	19.2	18.5	19.9	19.8	19.0	19.8	19.9	18.2	18.6	19.2
SA13-2047	19.1	18.5	19.9	18.6	18.8	19.7	20.5	18.4	18.3	19.5
SA13-2489	19.8	19.6	20.4	19.7	20.0	20.1	20.2	18.8	19.7	19.8
SA13-2699	18.4	18.1	19.2	18.4	18.5	18.5	19.5	17.1	18.2	18.0
SA13-3135	19.5	19.5	19.9	19.6	19.8	19.6	20.4	18.5	19.0	19.4
U12-428210	20.0	20.0	20.9	20.3	19.6	19.7	20.9	19.5	19.4	19.6
U13-231286	19.0	18.6	19.8	19.0	19.2	19.5	19.9	17.8	17.8	19.2
U13-931068	19.0	18.3	19.4	19.4	19.2	19.3	19.4	18.0	18.7	19.2
U14-605217	19.8	19.0	20.5	20.6	20.1	20.3	20.3	18.7	19.2	19.5
U14-924158	20.2	20.2	21.3	20.5	20.5	20.6	21.1	19.2	18.9	20.0

PRELIMINARY TEST IIIA, 2017							
Ent.	Strain	Parentage	Seed Source	Gen. Comp.	Unique Traits	Germ. %	Sd. Wt. g/100
1	LD11-2170 (III)	Syngenta 03JR313108 x LD05-3171	Diers	F5	SCN	94	15.3
2	IA3048 (SCN)	Dairyland 99540 x IA2068	Cai	F4	SCN	80	15.6
3	LD07-3395bf (SCN)	LD07-3395 Reselection	Diers	F5	SCN	88	15.4
4	U11-920017	HS5-3417 x LD02- 4485	Graef	F6	Excellent Rps Resistance	99	17.6
5	AR13-232008	Syngenta 03JR101916 x IAR2001 BSR	Cianzio	F5	BSR	88	12.0
6	AR13-332062	AR07-176075 x Syngenta 05RM926756	Cianzio	F4		98	14.3
7	HM11-G023	HF04-0648 x HS5W-362	McHale	F4		90	19.0
8	HM11-W193	OHS 305 x OHS 303	McHale	F4		98	18.4
9	HM13-S062	HS7W-90 x HS7-5613	McHale	F4		96	18.2
10	HM14-F042	HS8-6390 x PI 438246	McHale	F4		98	17.6
11	HM14-W132	HM09-W133 x HS8-6260	McHale	F4		94	15.9
12	LD14-1167	LD09-3913 x LS07-3131	Diers	F5		82	15.3
13	LD14-1429	LS07-3131 x LD04-13265	Diers	F5	SCN	96	17.8
14	LD14-3090	LD07-3395 x LD07-2192	Diers	F5	SCN	90	16.0
15	LD14-3218	LD07-3395 x G00196G014	Diers	F5		90	16.7
16	LD14-3340	LG06-2354 x LD06-7620	Diers	F5		94	15.9
17	LD14-3702	LD07-4477 x LG06-5798	Diers	F5		94	14.8
18	LD14-5353a	LD09-30224 x G00196G014	Diers	F5	Aphid Rag1	92	16.2
19	LD14-6190	LD09-30015 x LD09-30460	Diers	F5	SCN G. soja QTL, Ripley SDS	92	16.2
20	LD14-6444	LD07-2192 x LD09-30465	Diers	F5	SCN G. soja QTL	92	15.3
21	LG13-1257	LG05-4229 x U03-300134	Nelson	F6	Exotic G. max Ancestry	95	13.5
22	LG14-6201	06NB204846 x LG04-5190	Nelson	F6	Exotic G. max Ancestry	79	17.8
23	LG15-2136	06NB204846 x LG08-4955	Nelson	F6	Exotic G. max Ancestry	84	19.2
24	LG15-2214	LG06-2284 x LG07-8914	Nelson	F6	Exotic G. max Ancestry	89	15.6
25	LG15-4418	LG04-6000 x LG04-5190	Nelson	F6	Exotic G. max Ancestry	80	16.5

PRELIMINARY TEST IIIA, 2017
DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	Green Stem Score South Charleston
LD11-2170 (III)	PLtBDYBrI	0.9
IA3048 (SCN)	WGTSYYI	1.2
LD07-3395bf (SCN)	WGTIYBfI	2.1
U11-920017	WGTIYBrI	0.8
AR13-232008	PTTSYBI	1.2
AR13-332062	PTTSYLbrI	0.9
HM11-G023	PGTIYBI	1.3
HM11-W193	PGTSYLbI	3.8
HM13-S062	WGTIYYI	2.6
HM14-F042	WTTSYBI	2.3
HM14-W132	WT+GB+TSYBI	1.4
LD14-1167	P+WLtBIYBI	1.1
LD14-1429	PLtTSYBI	1.4
LD14-3090	WGTDYBfI	2.4
LD14-3218	PLtTIYBrI	2.6
LD14-3340	PLtTIYBI	2.7
LD14-3702	PTBSYBI	1.9
LD14-5353a	PGTDYBfI	1.1
LD14-6190	PTBSYBI	1.0
LD14-6444	PLtTDYBI	2.2
LG13-1257	PTTSYBrI	1.1
LG14-6201	WTBSYBI	2.0
LG15-2136	WTBSYBI	2.9
LG15-2214	WTBSYBfI	1.8
LG15-4418	WGBIYBfI	0.7

PRELIMINARY TEST IIIA, 2017

REGIONAL SUMMARY

No. of Tests Strain	Yield 10 bu/a	Rank 10 No.	Maturity 9 Date	Lodging 9 Score	Plant Height 9 In.	Seed Size 10 g/100	Seed Quality 10 Score	Composition	
								Protein 7 %	Oil 7 %
LD11-2170 (III)	74.1	2	9/26	1.3	34	16.7	1.2	34.5	19.1
IA3048 (SCN)	69.7	14	0.8	1.8	34	16.0	1.6	35.0	17.9
LD07-3395bf (SCN)	72.1	6	3.6	1.3	33	17.0	1.5	31.8	20.1
U11-920017	70.7	10	-4.7	1.3	34	18.1	1.4	32.3	19.3
AR13-232008	68.5	19	1.5	1.6	34	14.7	1.5	34.4	19.4
AR13-332062	69.6	16	0.4	1.6	35	16.7	1.5	34.6	19.2
HM11-G023	65.7	24	-1.1	2.2	41	17.9	1.7	34.0	19.0
HM11-W193	70.0	13	5.4	2.4	42	19.6	1.6	35.2	17.8
HM13-S062	68.0	20	3.6	1.8	39	17.6	1.5	35.2	18.2
HM14-F042	70.9	9	2.6	1.8	39	16.9	1.2	35.5	17.8
HM14-W132	61.7	25	1.2	2.3	38	17.8	1.6	35.5	17.9
LD14-1167	69.6	16	1.6	1.3	37	16.0	1.4	34.2	18.7
LD14-1429	74.0	3	3.3	1.2	35	18.3	1.6	34.9	18.3
LD14-3090	71.6	8	0.4	1.7	36	16.7	1.4	33.7	18.8
LD14-3218	71.9	7	4.2	1.6	33	17.6	1.6	35.0	18.5
LD14-3340	73.5	4	4.9	1.8	37	16.6	1.4	34.2	18.6
LD14-3702	75.7	1	4.6	1.5	37	16.4	1.2	33.9	18.5
LD14-5353a	72.7	5	1.2	1.5	38	16.9	1.6	33.5	19.4
LD14-6190	66.8	21	1.3	1.5	37	17.3	1.5	32.5	19.6
LD14-6444	70.2	12	2.8	1.4	39	16.9	1.6	35.0	18.9
LG13-1257	69.2	18	-0.7	1.5	36	15.2	1.4	33.5	19.2
LG14-6201	69.7	14	2.4	1.4	39	18.6	1.4	35.1	18.7
LG15-2136	70.6	11	3.3	1.3	39	17.8	1.6	34.4	18.9
LG15-2214	66.8	21	2.5	1.8	43	16.0	1.4	34.5	18.9
LG15-4418	66.1	23	2.1	2.4	42	16.3	1.6	31.7	19.6
Mean	70.0		28.1	1.7	36.9	16.9	1.4		
C.V. (%)	9.4		6.6	35.6	7.8	4.4	28.8		
L.S.D. (5%)	3.4		1.0	0.3	1.6	0.5	0.2		

123.6 Days After Planting

PRELIMINARY TEST IIIA, 2017

YIELD (bu/a)

Strain	Mean 10 Tests	Crawfords- ville IA	Urbana IL	West Lafayette IN	Manhattan KS
LD11-2170 (III)	74.1	80.3	75.5	73.6	76.7
IA3048 (SCN)	69.7	76.9	65.9	66.8	71.4
LD07-3395bf (SCN)	72.1	80.7	72.2	75.5	74.1
U11-920017	70.7	89.3	70.8	74.6	57.4
AR13-232008	68.5	74.3	70.2	68.8	72.2
AR13-332062	69.6	78.8	68.4	62.9	64.0
HM11-G023	65.7	75.1	63.8	60.2	53.0
HM11-W193	70.0	72.0	66.6	65.6	75.8
HM13-S062	68.0	71.2	68.0	63.5	58.6
HM14-F042	70.9	74.8	69.8	63.9	73.4
HM14-W132	61.7	66.0	60.4	60.5	47.9
LD14-1167	69.6	73.1	66.0	73.2	71.9
LD14-1429	74.0	75.1	74.0	76.7	80.5
LD14-3090	71.6	80.6	74.2	71.9	64.6
LD14-3218	71.9	76.5	77.4	64.6	75.7
LD14-3340	73.5	77.3	73.5	73.2	82.1
LD14-3702	75.7	79.3	74.9	71.4	67.7
LD14-5353a	72.7	80.8	76.6	71.8	68.0
LD14-6190	66.8	79.8	70.9	67.5	75.3
LD14-6444	70.2	73.4	69.1	68.6	74.1
LG13-1257	69.2	79.7	68.8	63.7	57.7
LG14-6201	69.7	83.1	75.5	73.8	66.3
LG15-2136	70.6	77.5	74.0	71.6	80.5
LG15-2214	66.8	70.6	66.5	63.2	71.4
LG15-4418	66.1	69.8	67.2	67.6	71.8
Location Mean		76.6	70.4	68.6	69.3
C.V. (%)		3.6	4.8	4.0	6.1
L.S.D. (5%)		6.9	7.0	4.7	8.7
Row Sp. (In.)		30	30	30	30
Rows/Plot		4	4	4	4
Reps		2	2	2	2

PRELIMINARY TEST IIIA, 2017

YIELD (bu/a)

Strain	Albany MO	Holdrege NE	Steven's Creek NE	Wymore NE	Hoytville OH	So Charles- ton OH
LD11-2170 (III)	80.9	70.4	75.8	77.4	76.2	54.1
IA3048 (SCN)	71.4	71.7	70.0	76.8	68.0	58.4
LD07-3395bf (SCN)	80.7	81.0	63.2	77.5	53.3	62.9
U11-920017	73.1	79.7	57.8	77.1	66.2	61.0
AR13-232008	73.5	68.8	64.0	77.4	57.9	57.7
AR13-332062	79.5	71.4	74.0	74.1	69.5	52.9
HM11-G023	66.4	66.5	69.1	74.8	72.9	55.3
HM11-W193	71.3	59.3	64.5	82.8	74.1	67.7
HM13-S062	71.5	70.9	68.6	76.8	71.3	59.9
HM14-F042	72.2	72.5	68.7	79.1	76.5	58.1
HM14-W132	65.6	65.4	66.7	68.7	64.2	51.3
LD14-1167	73.0	73.7	72.0	78.5	56.4	58.2
LD14-1429	76.8	73.7	78.7	85.4	63.0	56.1
LD14-3090	78.6	70.1	74.0	73.1	63.7	64.8
LD14-3218	80.9	72.1	65.9	83.9	56.7	65.2
LD14-3340	82.7	68.8	68.4	77.4	71.0	61.1
LD14-3702	76.8	85.0	78.3	90.1	81.1	52.0
LD14-5353a	77.0	78.4	73.8	74.3	68.0	58.7
LD14-6190	66.3	67.6	68.5	70.6	55.4	46.5
LD14-6444	72.2	73.1	63.5	67.0	73.8	67.5
LG13-1257	75.3	77.8	75.0	78.3	69.6	46.4
LG14-6201	74.3	70.7	62.9	66.1	76.0	48.1
LG15-2136	74.4	67.1	65.5	76.6	61.6	57.1
LG15-2214	77.6	72.0	63.7	59.4	69.5	54.3
LG15-4418	70.3	71.9	57.0	75.7	63.1	46.8
Location Mean	74.5	72.0	68.4	75.9	67.2	56.9
C.V. (%)	6.0	6.6	8.6	11.5	13.0	8.6
L.S.D. (5%)	9.2	9.3	12.2	19.6	18.0	10.4
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, 2017

YIELD RANK

Strain	Yield Rank	Crawfords-ville IA	Urbana IL	West Lafayette IN	Manhattan KS
LD11-2170 (III)	2	6	3	5	4
IA3048 (SCN)	14	13	23	16	14
LD07-3395bf (SCN)	6	4	10	2	8
U11-920017	10	1	12	3	23
AR13-232008	19	18	13	12	11
AR13-332062	16	10	17	23	20
HM11-G023	24	16	24	25	24
HM11-W193	13	21	20	17	5
HM13-S062	20	22	18	21	21
HM14-F042	9	17	14	19	10
HM14-W132	25	25	25	24	25
LD14-1167	16	20	22	6	12
LD14-1429	3	15	7	1	2
LD14-3090	8	5	6	8	19
LD14-3218	7	14	1	18	6
LD14-3340	4	12	9	6	1
LD14-3702	1	9	5	11	17
LD14-5353a	5	3	2	9	16
LD14-6190	21	7	11	15	7
LD14-6444	12	19	15	13	8
LG13-1257	18	8	16	20	22
LG14-6201	14	2	3	4	18
LG15-2136	11	11	7	10	2
LG15-2214	21	23	21	22	14
LG15-4418	23	24	19	14	13

PRELIMINARY TEST IIIA, 2017

YIELD RANK

Strain	Albany MO	Holdrege NE	Steven's Creek NE	Wymore NE	Hoytville OH	So Charles- ton OH
LD11-2170 (III)	2	17	3	10	3	18
IA3048 (SCN)	20	13	9	14	12	10
LD07-3395bf (SCN)	4	2	22	8	23	5
U11-920017	15	3	24	12	13	7
AR13-232008	14	20	19	11	19	13
AR13-332062	5	14	5	19	11	19
HM11-G023	23	23	10	17	7	16
HM11-W193	21	25	18	4	5	1
HM13-S062	19	15	12	13	8	8
HM14-F042	17	9	11	5	2	12
HM14-W132	25	24	15	22	14	21
LD14-1167	16	6	8	6	21	11
LD14-1429	9	7	1	2	17	15
LD14-3090	6	18	6	20	15	4
LD14-3218	3	10	16	3	20	3
LD14-3340	1	19	14	9	9	6
LD14-3702	10	1	2	1	1	20
LD14-5353a	8	4	7	18	12	9
LD14-6190	24	21	13	21	22	24
LD14-6444	18	8	21	23	6	2
LG13-1257	11	5	4	7	10	25
LG14-6201	13	16	23	24	4	22
LG15-2136	12	22	17	15	18	14
LG15-2214	7	11	20	25	11	17
LG15-4418	22	12	25	16	16	23

PRELIMINARY TEST IIIA, 2017

MATURITY (date)

Strain	Mean 9 Tests	Crawfords- ville IA	Urbana IL	West Lafayette IN	Manhattan KS
LD11-2170 (III)	9/26	9/23	9/19	10/5	9/24
IA3048 (SCN)	1	2	0	-1	3
LD07-3395bf (SCN)	4	4	5	0	4
U11-920017	-5	-6	-4	-3	-7
AR13-232008	2	1	2	0	1
AR13-332062	0	2	1	1	-3
HM11-G023	-1	2	-1	-3	-5
HM11-W193	5	12	7	1	6
HM13-S062	4	5	4	5	2
HM14-F042	3	7	3	2	0
HM14-W132	1	4	2	2	-2
LD14-1167	2	3	3	1	3
LD14-1429	3	5	5	1	4
LD14-3090	0	2	-1	1	-6
LD14-3218	4	6	6	5	4
LD14-3340	5	8	7	7	5
LD14-3702	5	7	6	7	2
LD14-5353a	1	2	3	2	-1
LD14-6190	1	0	3	1	2
LD14-6444	3	6	4	3	1
LG13-1257	-1	0	1	-2	-7
LG14-6201	2	4	3	2	3
LG15-2136	3	7	5	2	5
LG15-2214	3	5	4	1	1
LG15-4418	2	3	1	3	1
Date Planted	5/25	5/16	5/16	6/2	5/25
Days to Mature	124	130	126	125	122

PRELIMINARY TEST IIIA, 2017

MATURITY (date)

Strain	Albany MO	Holdrege NE	Steven's Creek NE	Wymore NE	Hoytville OH	So Charles- ton OH
LD11-2170 (III)	9/27		9/30	9/21	10/1	9/28
IA3048 (SCN)	2		1	0	1	0
LD07-3395bf (SCN)	3		6	2	7	1
U11-920017	-2		-6	-2	-4	-8
AR13-232008	2		1	2	4	1
AR13-332062	2		0	0	1	0
HM11-G023	3		0	0	-4	-1
HM11-W193	5		3	8	4	4
HM13-S062	4		3	4	5	1
HM14-F042	3		0	4	4	1
HM14-W132	0		-1	3	2	1
LD14-1167	0		0	2	3	0
LD14-1429	3		3	5	4	0
LD14-3090	2		0	0	5	1
LD14-3218	4		2	3	7	1
LD14-3340	4		4	3	4	3
LD14-3702	4		4	5	5	2
LD14-5353a	2		-1	2	1	0
LD14-6190	2		0	1	3	0
LD14-6444	2		2	2	3	3
LG13-1257	0		-3	1	4	-1
LG14-6201	2		3	2	3	0
LG15-2136	3		1	3	3	1
LG15-2214	3		2	1	3	3
LG15-4418	3		3	2	4	0
Date Planted	6/2		5/31	5/31	6/1	5/16
Days to Mature	117		122	113	122	135

PRELIMINARY TEST IIIA, 2017

LODGING (score)

Strain	Mean 9 Tests	Crawfords- ville IA	Urbana IL	West Lafayette IN	Manhattan KS
LD11-2170 (III)	1.3	1.5	1.0	1.0	1.0
IA3048 (SCN)	1.8	2.3	1.0	2.0	2.5
LD07-3395bf (SCN)	1.3	2.0	1.0	1.0	1.0
U11-920017	1.3	1.5	1.0	1.0	1.0
AR13-232008	1.6	1.8	1.0	1.0	1.0
AR13-332062	1.6	1.8	1.0	1.5	1.0
HM11-G023	2.2	2.5	1.5	2.0	2.5
HM11-W193	2.4	3.8	1.5	2.0	2.5
HM13-S062	1.8	2.5	1.0	2.0	1.0
HM14-F042	1.8	2.5	1.0	2.0	1.0
HM14-W132	2.3	3.3	2.3	2.3	1.5
LD14-1167	1.3	1.8	1.0	1.5	1.0
LD14-1429	1.2	1.8	1.0	1.0	1.0
LD14-3090	1.7	1.8	1.0	2.0	1.0
LD14-3218	1.6	3.0	1.5	2.0	1.0
LD14-3340	1.8	3.0	1.0	1.8	1.0
LD14-3702	1.5	1.8	1.0	2.0	1.0
LD14-5353a	1.5	1.8	1.0	2.0	1.0
LD14-6190	1.5	1.5	1.0	1.5	1.0
LD14-6444	1.4	2.0	1.0	1.3	1.0
LG13-1257	1.5	1.8	1.0	1.5	1.0
LG14-6201	1.4	2.0	1.0	1.5	1.0
LG15-2136	1.3	1.8	1.0	1.8	1.0
LG15-2214	1.8	2.3	1.0	2.0	2.0
LG15-4418	2.4	3.8	1.5	2.8	2.0

PRELIMINARY TEST IIIA, 2017

LODGING (score)

Strain	Albany MO	Holdrege NE	Steven's Creek NE	Wymore NE	Hoytville OH	So Charles- ton OH
LD11-2170 (III)	2.8		1.0	1.0	1.0	1.1
IA3048 (SCN)	3.5		1.0	1.5	1.0	1.8
LD07-3395bf (SCN)	1.5		2.0	1.0	1.0	1.3
U11-920017	3.0		1.0	1.5	1.0	1.0
AR13-232008	3.0		2.0	2.5	1.0	1.3
AR13-332062	2.5		1.0	3.5	1.0	1.4
HM11-G023	3.3		2.0	3.5	1.0	1.8
HM11-W193	3.8		2.0	1.5	1.0	3.9
HM13-S062	2.5		1.0	2.0	1.0	3.1
HM14-F042	3.0		2.0	1.5	1.0	2.0
HM14-W132	3.0		2.0	3.0	1.0	2.0
LD14-1167	2.0		1.0	1.5	1.0	0.7
LD14-1429	1.8		1.0	1.0	1.0	0.8
LD14-3090	2.3		1.0	3.0	1.0	2.2
LD14-3218	2.0		2.0	1.0	1.0	1.3
LD14-3340	2.3		1.0	2.5	1.0	2.4
LD14-3702	2.8		1.0	1.0	1.0	1.6
LD14-5353a	2.0		1.0	2.5	1.0	1.2
LD14-6190	2.5		1.0	2.5	1.0	1.2
LD14-6444	1.8		1.0	2.0	1.0	1.3
LG13-1257	2.0		1.0	3.0	1.0	1.1
LG14-6201	2.0		1.0	1.5	1.0	1.9
LG15-2136	1.5		1.0	1.5	1.0	1.0
LG15-2214	3.0		1.0	2.5	1.0	1.5
LG15-4418	3.5		2.0	2.5	1.0	2.6

PRELIMINARY TEST IIIA, 2017

PLANT HEIGHT (inches)

Strain	Mean 9 Tests	Crawfords- ville IA	Urbana IL	West Lafayette IN	Manhattan KS
LD11-2170 (III)	34	42	36	31	34
IA3048 (SCN)	34	45	34	33	36
LD07-3395bf (SCN)	33	39	37	30	35
U11-920017	34	41	36	30	29
AR13-232008	34	41	36	32	33
AR13-332062	35	45	37	32	32
HM11-G023	41	49	42	38	38
HM11-W193	42	50	44	40	41
HM13-S062	39	52	37	36	38
HM14-F042	39	47	41	38	37
HM14-W132	38	46	40	36	33
LD14-1167	37	46	36	35	37
LD14-1429	35	45	38	34	38
LD14-3090	36	42	38	33	34
LD14-3218	33	40	38	35	35
LD14-3340	37	46	40	40	38
LD14-3702	37	46	38	36	39
LD14-5353a	38	46	41	39	33
LD14-6190	37	43	38	41	36
LD14-6444	39	48	40	39	38
LG13-1257	36	45	37	35	32
LG14-6201	39	47	40	38	40
LG15-2136	39	48	42	38	36
LG15-2214	43	54	46	43	43
LG15-4418	42	51	45	46	40

PRELIMINARY TEST IIIA, 2017

PLANT HEIGHT (inches)

Strain	Albany MO	Holdrege NE	Steven's Creek NE	Wymore NE	Hoytville OH	So Charles- ton OH
LD11-2170 (III)	36		36	34	25	29
IA3048 (SCN)	39		34	32	25	29
LD07-3395bf (SCN)	33		38	37	21	28
U11-920017	35		43	33	29	28
AR13-232008	38		36	33	27	30
AR13-332062	36		39	39	27	30
HM11-G023	45		44	44	33	35
HM11-W193	44		45	46	30	37
HM13-S062	40		41	41	33	33
HM14-F042	42		42	41	31	35
HM14-W132	38		43	47	30	34
LD14-1167	40		43	39	25	33
LD14-1429	38		39	34	25	29
LD14-3090	36		43	38	26	31
LD14-3218	32		34	35	23	29
LD14-3340	38		39	36	24	32
LD14-3702	42		34	41	26	31
LD14-5353a	37		42	38	33	31
LD14-6190	37		45	42	26	29
LD14-6444	39		42	41	30	35
LG13-1257	35		44	40	26	28
LG14-6201	40		41	43	28	31
LG15-2136	41		47	39	26	34
LG15-2214	48		46	47	30	30
LG15-4418	45		40	47	27	36

PRELIMINARY TEST IIIA, 2017

SEED SIZE (g/100)

Strain	Mean 10 Tests	Crawfords- ville IA	Urbana IL	West Lafayette IN	Manhattan KS
LD11-2170 (III)	16.7	16.8	17.1	16.7	17.2
IA3048 (SCN)	16.0	16.8	15.3	15.9	16.4
LD07-3395bf (SCN)	17.0	17.5	17.0	16.4	17.1
U11-920017	18.1	18.1	17.3	17.2	18.5
AR13-232008	14.7	14.8	14.7	14.5	15.7
AR13-332062	16.7	17.1	16.3	16.2	16.9
HM11-G023	17.9	18.9	17.9	17.4	17.4
HM11-W193	19.6	21.0	19.9	18.7	19.5
HM13-S062	17.6	18.4	17.8	16.9	18.9
HM14-F042	16.9	16.9	16.6	17.0	17.7
HM14-W132	17.8	18.7	17.2	19.2	16.3
LD14-1167	16.0	16.1	16.8	16.3	16.4
LD14-1429	18.3	18.6	18.9	19.6	18.3
LD14-3090	16.7	18.5	17.2	16.4	16.4
LD14-3218	17.6	18.6	18.1	17.9	18.7
LD14-3340	16.6	17.4	16.8	16.9	17.4
LD14-3702	16.4	16.1	16.7	17.3	16.1
LD14-5353a	16.9	17.8	18.0	17.9	16.7
LD14-6190	17.3	18.2	18.0	16.8	18.9
LD14-6444	16.9	17.3	17.6	15.7	17.5
LG13-1257	15.2	16.3	14.6	15.7	15.3
LG14-6201	18.6	19.3	19.2	19.5	19.5
LG15-2136	17.8	19.7	18.3	17.7	19.0
LG15-2214	16.0	16.2	15.9	16.1	17.2
LG15-4418	16.3	16.9	15.2	16.3	16.7

PRELIMINARY TEST IIIA, 2017

SEED SIZE (g/100)

Strain	Albany MO	Holdrege NE	Steven's Creek NE	Wymore NE	Hoytville OH	So Charles- ton OH
LD11-2170 (III)	16.3	17.3	16.7	15.9	16.9	16.4
IA3048 (SCN)	17.2	16.5	15.3	14.8	16.2	15.4
LD07-3395bf (SCN)	17.5	16.9	16.8	16.1	17.8	16.7
U11-920017	18.3	19.2	18.5	18.9	17.3	17.5
AR13-232008	14.9	15.8	15.1	14.0	14.2	13.2
AR13-332062	17.4	18.1	17.6	15.0	16.9	15.1
HM11-G023	18.9	18.1	17.4	17.5	17.5	18.3
HM11-W193	19.2	19.6	18.4	21.6	18.3	19.5
HM13-S062	18.1	17.6	16.6	17.1	17.3	16.9
HM14-F042	17.0	17.9	16.6	16.8	16.4	16.1
HM14-W132	17.9	18.1	16.6	19.0	17.8	17.4
LD14-1167	15.9	16.0	15.4	16.0	16.8	14.5
LD14-1429	17.6	18.4	18.3	17.4	18.1	18.2
LD14-3090	17.4	16.5	16.6	15.2	16.1	16.5
LD14-3218	18.0	17.2	16.6	16.3	17.4	16.9
LD14-3340	16.9	16.8	16.6	15.2	16.5	15.3
LD14-3702	16.2	17.0	15.7	16.0	16.7	16.8
LD14-5353a	16.7	17.4	16.8	15.2	16.1	16.2
LD14-6190	16.3	18.2	17.5	17.1	16.7	15.6
LD14-6444	16.9	17.3	17.0	16.2	16.7	16.4
LG13-1257	15.3	15.9	15.9	15.2	15.2	12.9
LG14-6201	18.8	19.0	17.6	17.3	18.0	17.8
LG15-2136	17.6	17.9	17.4	16.7	16.7	16.7
LG15-2214	16.4	16.7	16.1	14.4	17.0	14.6
LG15-4418	16.6	17.2	16.1	17.0	15.8	15.0

PRELIMINARY TEST IIIA, 2017

SEED QUALITY (score)

Strain	Mean 10 Tests	Crawfords- ville IA	Urbana IL	West Lafayette IN	Manhattan KS
LD11-2170 (III)	1.2	1.0	1.0	1.0	2.0
IA3048 (SCN)	1.6	1.0	2.0	1.0	4.0
LD07-3395bf (SCN)	1.5	1.0	2.0	1.0	2.0
U11-920017	1.4	1.0	2.0	1.0	3.0
AR13-232008	1.5	1.0	1.0	1.0	3.0
AR13-332062	1.5	1.0	2.0	1.0	4.0
HM11-G023	1.7	1.0	2.0	1.0	3.0
HM11-W193	1.6	1.0	2.0	1.0	3.0
HM13-S062	1.5	1.0	2.0	1.0	2.0
HM14-F042	1.2	1.0	1.0	1.0	2.0
HM14-W132	1.6	1.0	2.0	1.0	3.0
LD14-1167	1.4	1.0	2.0	1.0	3.0
LD14-1429	1.6	1.0	2.0	1.0	3.0
LD14-3090	1.4	1.0	2.0	1.0	2.0
LD14-3218	1.6	1.0	2.0	1.0	3.0
LD14-3340	1.4	1.0	1.0	1.0	2.0
LD14-3702	1.2	1.0	1.0	1.0	2.0
LD14-5353a	1.6	1.0	2.0	1.0	3.0
LD14-6190	1.5	1.0	2.0	1.0	2.0
LD14-6444	1.6	1.0	2.0	1.0	3.0
LG13-1257	1.4	1.0	2.0	1.0	3.0
LG14-6201	1.4	1.0	1.0	1.0	2.0
LG15-2136	1.6	1.0	2.0	1.0	3.0
LG15-2214	1.4	1.0	2.0	1.0	2.0
LG15-4418	1.6	1.0	2.0	1.0	3.0

PRELIMINARY TEST IIIA, 2017

SEED QUALITY (score)

Strain	Albany MO	Holdrege NE	Steven's Creek NE	Wymore NE	Hoytville OH	So Charles- ton OH
LD11-2170 (III)	1.0	1.0	1.0	2.0	1.0	1.4
IA3048 (SCN)	2.0	1.0	1.0	1.0	1.0	1.9
LD07-3395bf (SCN)	1.5	1.0	1.0	2.0	1.0	2.0
U11-920017	1.0	1.0	1.5	1.0	1.0	1.4
AR13-232008	1.5	1.0	1.0	2.0	1.0	2.8
AR13-332062	1.0	1.0	1.0	1.5	1.0	1.1
HM11-G023	3.0	1.0	1.0	1.5	1.0	2.0
HM11-W193	2.0	1.0	1.0	2.0	1.0	1.8
HM13-S062	2.0	1.0	1.0	1.5	1.0	2.1
HM14-F042	2.0	1.0	1.0	1.0	1.0	1.1
HM14-W132	1.5	1.5	1.0	2.0	1.0	2.3
LD14-1167	1.0	1.0	1.0	1.0	1.0	2.4
LD14-1429	1.0	1.5	1.0	2.0	1.0	2.0
LD14-3090	2.0	1.0	2.0	1.0	1.0	1.4
LD14-3218	1.5	1.0	2.0	1.0	1.0	2.0
LD14-3340	2.0	1.0	1.5	1.0	1.0	2.1
LD14-3702	1.0	1.5	1.5	1.0	1.0	1.1
LD14-5353a	1.5	1.0	1.5	1.0	1.0	2.7
LD14-6190	2.0	1.0	1.5	1.5	1.0	1.5
LD14-6444	2.0	1.0	1.5	2.0	1.0	1.6
LG13-1257	1.0	1.0	1.0	2.0	1.0	1.3
LG14-6201	1.0	1.5	2.0	1.5	1.0	1.9
LG15-2136	2.0	1.5	1.5	1.0	1.0	1.7
LG15-2214	1.5	1.0	1.5	1.0	1.0	2.3
LG15-4418	1.5	1.0	1.5	1.5	1.0	2.1

PRELIMINARY TEST IIIA, 2017

PROTEIN (%)

Strain	Mean 7 Tests	Crawsford- ville IA	Urbana IL	West Laf IN	Albany MO	Holdrege NE	Steven's Creek NE	Hoytville OH
LD11-2170 (III)	34.5	34.2	32.9	35.0	34.6	35.9	35.6	33.3
IA3048 (SCN)	35.0	36.0	33.7	35.8	34.6	34.5	37.0	33.2
LD07-3395bf (SCN)	31.8	31.8	31.9	30.8	31.0	32.9	33.8	30.5
U11-920017	32.3	31.7	30.8	32.4	31.4	33.9	33.8	31.8
AR13-232008	34.4	34.0	33.8	34.8	33.5	35.3	36.4	32.8
AR13-332062	34.6	33.7	34.4	34.3	34.8	35.6	35.8	33.4
HM11-G023	34.0	34.8	33.3	34.2	34.0	34.8	34.3	33.0
HM11-W193	35.2	36.1	35.1	35.4	35.6	36.7	34.1	33.6
HM13-S062	35.2	33.6	35.5	35.6	33.8	36.8	37.8	33.6
HM14-F042	35.5	36.7	35.5	35.2	34.9	36.8	35.6	34.1
HM14-W132	35.5	32.6	36.4	36.0	34.5	36.9	37.4	34.7
LD14-1167	34.2	34.3	34.1	33.9	33.9	34.4	36.0	32.8
LD14-1429	34.9	35.5	34.3	35.6	34.3	35.7	35.7	33.5
LD14-3090	33.7	33.7	33.1	35.2	33.0	33.8	34.8	32.2
LD14-3218	35.0	35.1	34.2	35.8	33.1	36.3	36.2	34.0
LD14-3340	34.2	34.2	34.5	33.8	33.4	34.5	35.7	33.4
LD14-3702	33.9	32.9	34.2	35.0	33.9	33.8	34.6	32.9
LD14-5353a	33.5	33.9	32.8	34.2	32.9	34.5	35.8	30.3
LD14-6190	32.5	32.5	32.7	33.3	32.3	32.6	33.2	30.9
LD14-6444	35.0	35.2	34.4	34.7	33.8	36.0	37.6	33.4
LG13-1257	33.5	33.3	33.6	33.0	31.8	34.1	35.6	33.3
LG14-6201	35.1	34.9	34.1	34.7	35.0	36.6	36.1	34.6
LG15-2136	34.4	35.4	33.6	34.5	33.7	35.7	35.9	32.1
LG15-2214	34.5	35.0	34.5	33.9	33.8	35.6	35.5	33.3
LG15-4418	31.7	32.2	31.0	31.8	30.6	32.0	34.4	30.1

OIL (%)

Strain	Mean 7 Tests	Crawsford- ville IA	Urbana IL	West Laf IN	Albany MO	Holdrege NE	Steven's Creek NE	Hoytville OH
LD11-2170 (III)	19.1	18.8	19.4	19.2	19.3	18.8	19.1	19.3
IA3048 (SCN)	17.9	16.5	19.2	17.6	18.7	17.7	17.6	18.1
LD07-3395bf (SCN)	20.1	19.9	20.2	20.3	20.9	19.5	19.7	20.4
U11-920017	19.3	19.2	20.2	19.1	20.0	18.6	19.2	18.9
AR13-232008	19.4	19.4	19.7	19.4	20.4	18.7	18.6	19.8
AR13-332062	19.2	20.1	19.7	19.3	19.2	18.7	18.4	18.7
HM11-G023	19.0	18.6	19.5	19.1	19.8	18.6	19.2	18.5
HM11-W193	17.8	17.5	18.5	17.8	18.1	16.8	17.6	18.4
HM13-S062	18.2	18.2	18.4	18.2	19.7	17.5	17.3	18.4
HM14-F042	17.8	16.9	18.0	18.0	18.7	17.0	17.9	18.1
HM14-W132	17.9	16.1	18.3	17.5	19.4	17.5	17.8	18.4
LD14-1167	18.7	18.6	19.0	18.5	19.3	18.4	18.2	19.3
LD14-1429	18.3	17.8	18.9	17.9	19.1	17.5	18.3	18.6
LD14-3090	18.8	18.4	19.4	18.0	19.5	18.6	18.6	19.0
LD14-3218	18.5	18.4	18.7	18.2	19.4	18.0	18.0	18.6
LD14-3340	18.6	17.9	18.8	18.8	19.2	18.0	18.6	18.6
LD14-3702	18.5	17.9	18.8	18.2	18.8	18.5	18.5	18.6
LD14-5353a	19.4	18.6	20.2	19.0	20.2	18.8	18.5	20.4
LD14-6190	19.6	19.1	19.5	19.6	20.4	19.1	19.4	19.8
LD14-6444	18.9	18.9	19.4	19.0	19.9	18.0	17.8	19.4
LG13-1257	19.2	19.2	19.8	19.4	20.3	18.6	18.5	18.9
LG14-6201	18.7	18.4	19.5	18.9	19.1	17.8	18.3	18.8
LG15-2136	18.9	18.6	19.4	18.9	19.8	18.3	18.3	19.1
LG15-2214	18.9	18.4	18.9	19.2	19.5	18.7	18.6	18.9
LG15-4418	19.6	18.5	20.3	19.7	20.2	19.2	19.2	19.8

PRELIMINARY TEST IIB, 2017							
Ent.	Strain	Parentage	Seed Source	Gen. Comp.	Unique Traits	Germ. %	Sd. Wt. g/100
1	LD11-2170 (III)	Syngenta 03JR313108 x LD05-3171	Diers	F5	SCN	94	15.3
2	IA3048 (SCN)	Dairyland 99540 x IA2068	Cai	F4	SCN	80	15.6
3	LD07-3395bf (SCN)	LD07-3395 Reselection	Diers	F5	SCN	88	15.4
4	U11-920017	HS5-3417 x LD02- 4485	Graef	F6	Excellent Rps Resistance	99	17.6
5	K15-1043	AR10-305003 x 435.TCS	Schapaugh	F5	SCN	92	14.3
6	SA13-2494	LD07-3419 x K07-1633	Scaboo	F4		94	13.0
7	SA14-5893	LD07-3419 x LD04-13265	Scaboo	F4		91	15.0
8	SA14-9653	LD07-4477 x LD02-9050	Scaboo	F4		96	16.8
9	SA14-9742	LD07-4477 x LD02-9050	Scaboo	F4		95	14.2
10	U14-210241	U09-407147 x LD02-4485	Graef	F5	Rps1K, Rps, SCN	99	17.1
11	U14-211209	U09-407147 x LD02-4485	Graef	F5	Rps1K, Rps, SCN	99	14.2
12	U14-211226	U09-407147 x LD02-4485	Graef	F5	Rps1K, Rps, SCN	96	16.6
13	U14-212231	U09-407147 x LD02-4485	Graef	F5	Rps1K, Rps, SCN	98	13.8
14	U14-218219	U11-935093 x LD07-3419	Graef	F5	IDC, SCN	98	14.9
15	U14-219257	U11-935093 x LD07-3419	Graef	F5	IDC, SCN	99	15.2
16	U14-223230	U11-935093 x U09-105007	Graef	F5	IDC, Rps	96	14.7
17	U14-319013	U09-105007 x U09-407147	Graef	F5	Rps1K, Rps	92	16.7
18	U14-319038	U09-105007 x U09-407147	Graef	F5	Rps1K, Rps	99	15.8
19	U14-320041	U09-105007 x U09-407147	Graef	F5	Rps1K, Rps	96	15.4
20	U14-321026	U09-215057 x U09-407147	Graef	F5	Rps1K, Rps, Dt	98	13.2
21	U14-322043	U09-215057 x U09-407147	Graef	F5	Rps1K, Rps, Dt	94	16.3
22	U15-606207	LD07-3419 x U09-105007	Graef	F5	SCN (HR, HR), Rps	96	17.5
23	U15-613163	LD07-3419 x U11-919011	Graef	F5	SCN HR, HR	99	15.2
24	U15-908119	IA4005 x UX2867B	Graef	F5	Low Lin, Yield	96	17.8

PRELIMINARY TEST IIIB, 2017
DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	Green Stem Score South Charleston
LD11-2170 (III)	PLtBDYBrI	1.1
IA3048 (SCN)	WGTSYYI	1.1
LD07-3395bf (SCN)	WGTIYBfI	2.1
U11-920017	WGTIYBrI	1.1
K15-1043	PTBIYBI	2.2
SA13-2494	WGTSYBfI	2.1
SA14-5893	WT+GBDYBf+BI	2.8
SA14-9653	PTBSYBI	1.8
SA14-9742	PGTSYDibI	1.1
U14-210241	PGTSYB+BrI	1.0
U14-211209	PGTDYBI	1.0
U14-211226	PGTSYLdibI	1.1
U14-212231	PGTDYBI	1.0
U14-218219	WGTSYB+LbfI	1.0
U14-219257	WTBSYBI	0.7
U14-223230	PTBIYBrI	1.1
U14-319013	PTBIYBrI	1.1
U14-319038	PTBSYBI	0.7
U14-320041	PTBSYBI	1.0
U14-321026	WTTSYBD	1.1
U14-322043	WTBSYBD	1.0
U15-606207	PGTDYBfI	1.1
U15-613163	PGTSYBI	1.1
U15-908119	WGTIYBf+BI	1.0

PRELIMINARY TEST IIIB, 2017

REGIONAL SUMMARY

No. of Tests Strain	Yield 9 bu/a	Rank 9 No.	Maturity 9 Date	Lodging 9 Score	Plant Height 9 In.	Seed Size 10 g/100	Seed Quality 10 Score	Composition	
								Protein 7 %	Oil 7 %
LD11-2170 (III)	74.2	3	9/25	1.3	34	16.4	1.4	34.0	19.2
IA3048 (SCN)	72.3	7	1.4	1.8	36	15.9	1.4	34.5	17.9
LD07-3395bf (SCN)	71.2	10	5.3	1.3	32	16.6	1.5	32.3	19.9
U11-920017	66.2	24	-4.6	1.7	32	17.7	1.3	32.7	19.3
K15-1043	68.1	21	3.1	1.2	32	14.8	1.4	34.4	18.4
SA13-2494	70.5	12	4.8	1.2	33	13.8	1.4	33.3	19.2
SA14-5893	70.2	15	6.8	1.1	32	15.5	1.5	34.3	18.8
SA14-9653	73.0	5	3.3	2.0	36	17.6	1.2	35.6	18.4
SA14-9742	68.2	20	3.1	1.2	33	15.1	1.4	34.4	18.9
U14-210241	71.8	9	-2.4	1.4	34	17.2	1.5	32.1	19.4
U14-211209	74.4	2	0.4	1.5	37	16.2	1.5	32.6	19.2
U14-211226	76.5	1	1.7	1.4	38	17.3	1.4	32.6	19.3
U14-212231	72.1	8	-0.6	1.7	38	15.7	1.4	30.5	19.7
U14-218219	70.4	14	1.2	1.3	35	15.8	1.5	32.1	19.8
U14-219257	70.1	16	1.6	1.2	33	15.1	1.5	32.3	19.3
U14-223230	68.9	18	-0.1	1.4	35	15.4	1.4	33.2	19.2
U14-319013	67.2	23	-0.3	1.6	38	17.2	1.6	33.3	19.5
U14-319038	68.9	18	0.4	1.4	36	16.0	1.4	33.4	18.5
U14-320041	70.5	12	-1.8	1.4	34	16.2	1.6	32.9	19.6
U14-321026	71.2	10	2.3	1.5	35	13.7	1.4	34.6	19.4
U14-322043	67.7	22	3.6	1.4	34	14.9	1.2	34.4	18.7
U15-606207	73.6	4	1.5	1.2	34	16.1	1.5	32.3	20.1
U15-613163	72.8	6	-1.4	1.6	33	15.7	1.7	32.9	19.1
U15-908119	69.5	17	0.0	1.2	32	16.7	1.2	33.6	19.7
Mean	69.4		27.4	1.4	34.2	16.0	1.4		
C.V. (%)	11.0		40.0	32.5	9.3	4.9	28.1		
L.S.D. (5%)	4.0		6.0	0.3	1.8	0.5	0.2		

124.7 Days After Planting

PRELIMINARY TEST IIIB, 2017

YIELD (bu/a)

Strain	Mean 9 Tests	Crawfords- ville IA	Urbana IL	West Lafayette IN	Manhattan KS
LD11-2170 (III)	74.2	86.3	73.2	70.9	69.3
IA3048 (SCN)	72.3	78.3	69.8	66.9	82.5
LD07-3395bf (SCN)	71.2	77.4	67.9	68.7	57.8
U11-920017	66.2	88.0	68.5	67.8	37.7
K15-1043	68.1	73.4	65.4	68.4	69.5
SA13-2494	70.5	81.5	59.5	71.2	74.2
SA14-5893	70.2	77.0	62.0	73.7	56.9
SA14-9653	73.0	78.2	68.1	69.4	70.1
SA14-9742	68.2	74.3	64.2	73.4	67.0
U14-210241	71.8	86.5	68.7	67.5	58.7
U14-211209	74.4	84.4	69.8	67.2	72.2
U14-211226	76.5	80.3	72.7	69.5	79.7
U14-212231	72.1	82.9	63.2	72.2	55.6
U14-218219	70.4	77.9	49.3** ²	73.8	61.0
U14-219257	70.1	83.6	61.7	66.7	51.0
U14-223230	68.9	78.8	55.8** ²	70.2	49.1
U14-319013	67.2	76.5	59.9	65.3	53.8
U14-319038	68.9	76.9	59.5	66.4	48.8
U14-320041	70.5	80.7	61.9* ¹	66.9	42.8
U14-321026	71.2	74.2	63.8	74.8	63.5
U14-322043	67.7	79.5	60.5	72.3	51.7
U15-606207	73.6	77.7	61.0	71.1	73.1
U15-613163	72.8	83.6	65.9	73.9	60.3
U15-908119	69.5	80.9	60.2	72.4	42.8
Location Mean		79.9	65.0	70.0	60.4
C.V. (%)		5.8	7.6	4.5	7.2
L.S.D. (5%)		11.6	7.8	5.3	9.1
Row Sp. (In.)		30	30	30	30
Rows/Plot		4	4	4	4
Reps		2	2	2	2

*Data not included in the mean.

*¹ one rep poor stand, **² both reps poor stands

PRELIMINARY TEST IIIB, 2017

YIELD (bu/a)

Strain	Albany MO	Holdrege NE	Steven's Creek NE	Wymore NE	Hoytville* OH	So Charles- ton OH
LD11-2170 (III)	72.7	79.4	75.2	82.1	63.4	58.6
IA3048 (SCN)	71.3	80.2	75.2	70.2	58.0	56.1
LD07-3395bf (SCN)	80.8	81.3	66.0	80.6	50.2	60.7
U11-920017	74.7	79.4	63.1	72.1	61.3	44.5
K15-1043	71.7	80.9	68.8	76.5	38.6	38.4
SA13-2494	78.6	68.7	68.9	74.8	51.7	57.4
SA14-5893	80.5	75.9	73.5	82.7	56.3	49.5
SA14-9653	81.3	81.2	71.6	85.4	53.0	52.0
SA14-9742	70.2	77.0	72.3	66.9	43.9	48.5
U14-210241	77.6	76.3	81.4	83.5	51.5	46.4
U14-211209	81.1	77.6	79.9	81.3	73.8	56.1
U14-211226	77.9	70.9	81.9	94.8	60.9	60.9
U14-212231	80.4	88.6	79.9	76.8	63.9	49.3
U14-218219	79.5	83.5	68.7	77.2	53.1	41.3
U14-219257	86.3	90.0	74.9	79.3	60.9	37.6
U14-223230	75.4	83.5	72.0	76.5	63.3	45.7
U14-319013	72.9	83.6	67.6	85.3	55.0	39.4
U14-319038	72.6	85.3	76.6	89.4	65.1	44.3
U14-320041	84.4	83.0	70.8	85.5	66.8	49.6
U14-321026	85.5	88.1	71.5	76.7	63.1	42.7
U14-322043	85.5	77.6	63.9	77.6	68.9	40.8
U15-606207	86.1	76.9	77.0	87.1	63.3	52.4
U15-613163	82.9	90.9	71.5	76.0	64.3	50.5
U15-908119	83.6	82.2	75.6	76.6	62.3	51.3
Location Mean	78.9	80.9	72.8	79.8	58.9	48.9
C.V. (%)	4.7	10.3	6.6	11.4	17.3	11.3
L.S.D. (5%)	7.7	17.2	10.0	18.8	21.0	11.6
Row Sp. (In.)	30	30	30	4	7.5	15
Rows/Plot	4	4	4	30	8	6
Reps	2	2	2	4	2	2

*Data not included in the mean.

PRELIMINARY TEST IIIB, 2017

YIELD RANK

Strain	Yield Rank	Crawfords-ville IA	Urbana IL	West Lafayette IN	Manhattan KS
LD11-2170 (III)	3	3	1	11	8
IA3048 (SCN)	7	14	3	20	1
LD07-3395bf (SCN)	10	18	8	15	14
U11-920017	24	1	6	17	24
K15-1043	21	24	10	16	7
SA13-2494	12	8	21	9	3
SA14-5893	15	19	14	4	15
SA14-9653	5	15	7	14	6
SA14-9742	20	22	11	5	9
U14-210241	9	2	5	18	13
U14-211209	2	4	3	19	5
U14-211226	1	11	2	13	2
U14-212231	8	7	13	8	16
U14-218219	14	16	24	3	11
U14-219257	16	6	16	22	19
U14-223230	18	13	23	12	20
U14-319013	23	21	20	24	17
U14-319038	18	20	21	23	21
U14-320041	12	10	15	20	22
U14-321026	10	23	12	1	10
U14-322043	22	12	18	7	18
U15-606207	4	17	17	10	4
U15-613163	6	5	9	2	12
U15-908119	17	9	19	6	22

PRELIMINARY TEST IIIB, 2017

YIELD RANK

Strain	Albany MO	Holdrege NE	Steven's Creek NE	Wymore NE	Hoytville OH	So Charles- ton OH
LD11-2170 (III)	20	15	9	9	7	3
IA3048 (SCN)	23	14	8	23	13	5
LD07-3395bf (SCN)	10	11	22	11	20	2
U11-920017	18	16	24	22	11	17
K15-1043	22	13	19	18	22	23
SA13-2494	14	24	18	21	18	4
SA14-5893	11	22	11	8	14	12
SA14-9653	8	12	14	5	17	8
SA14-9742	24	19	12	24	21	14
U14-210241	16	21	2	7	19	15
U14-211209	9	17	3	10	1	5
U14-211226	15	23	1	1	12	1
U14-212231	12	3	4	15	6	13
U14-218219	13	7	20	14	16	20
U14-219257	1	2	10	12	12	24
U14-223230	17	8	13	19	8	16
U14-319013	19	6	21	6	15	22
U14-319038	21	5	6	2	4	18
U14-320041	5	9	17	4	3	11
U14-321026	3	4	16	16	9	19
U14-322043	4	18	23	13	2	21
U15-606207	2	20	5	3	8	7
U15-613163	7	1	15	20	5	10
U15-908119	6	10	7	17	10	9

PRELIMINARY TEST IIIB, 2017

MATURITY (date)

Strain	Mean 9 Tests	Crawfords- ville IA	Urbana IL	West Lafayette IN	Manhattan KS
LD11-2170 (III)	9/25	9/23	9/18	10/2	9/20
IA3048 (SCN)	1	2	2	3	1
LD07-3395bf (SCN)	5	3	6	10	8
U11-920017	-5	-5	-4	-1	-7
K15-1043	3	4	7	1	7
SA13-2494	5	5	6	10	7
SA14-5893	7	8	8	10	9
SA14-9653	3	3	8	0	6
SA14-9742	3	4	7	4	2
U14-210241	-2	0	-2	2	-3
U14-211209	0	1	1	4	-1
U14-211226	2	1	3	4	2
U14-212231	-1	0	0	1	-2
U14-218219	1	-1	2	4	3
U14-219257	2	0	3	4	-2
U14-223230	-0	-1	1	0	-2
U14-319013	-0	0	0	2	-3
U14-319038	0	1	0	3	-3
U14-320041	-2	-5	-2	3	-5
U14-321026	2	1	4	3	3
U14-322043	4	4	5	3	4
U15-606207	2	-1	1	5	4
U15-613163	-1	-3	-2	0	-3
U15-908119	0	1	1	0	-1
Date Planted	5/23	5/16	5/16	6/2	5/25
Days to Mature	125	130	125	122	118

PRELIMINARY TEST IIIB, 2017

MATURITY (date)

Strain	Albany MO	Holdrege NE	Steven's Creek NE	Wymore NE	Hoytville OH	So Charles- ton OH
LD11-2170 (III)	9/26		9/28	9/22	10/3	9/28
IA3048 (SCN)	3		2	0	0	0
LD07-3395bf (SCN)	5		8	1	7	0
U11-920017	-1		-3	-5	-7	-9
K15-1043	4		3	1	0	1
SA13-2494	4		2	2	5	3
SA14-5893	6		6	5	6	4
SA14-9653	5		2	2	4	1
SA14-9742	4		0	4	4	0
U14-210241	1		0	-1	-5	-14
U14-211209	3		1	-2	-2	-1
U14-211226	4		2	0	1	-1
U14-212231	2		0	1	-1	-6
U14-218219	3		-1	0	3	-1
U14-219257	4		4	0	0	1
U14-223230	1		-1	-1	3	-1
U14-319013	1		-1	1	1	-4
U14-319038	2		1	0	0	0
U14-320041	1		0	-2	-3	-4
U14-321026	4		5	0	2	-1
U14-322043	5		5	3	5	-1
U15-606207	3		0	0	2	0
U15-613163	0		0	-3	0	-2
U15-908119	2		2	0	-2	-3
Date Planted	6/2		5/31	5/13	6/1	5/16
Days to Mature	116		120	132	124	135

PRELIMINARY TEST IIIB, 2017

LODGING (score)

Strain	Mean 9 Tests	Crawfords- ville IA	Urbana IL	West Lafayette IN	Manhattan KS
LD11-2170 (III)	1.3	1.5	1.0	1.0	1.0
IA3048 (SCN)	1.8	2.3	1.5	1.5	2.0
LD07-3395bf (SCN)	1.3	1.8	1.0	1.0	1.0
U11-920017	1.7	1.5	1.0	1.0	1.0
K15-1043	1.2	2.0	1.0	1.0	1.0
SA13-2494	1.2	1.8	1.0	1.0	1.0
SA14-5893	1.1	1.8	1.0	1.0	1.0
SA14-9653	2.0	2.3	1.5	1.0	1.5
SA14-9742	1.2	2.0	1.0	1.0	1.0
U14-210241	1.4	2.0	1.0	1.0	1.0
U14-211209	1.5	2.3	1.0	1.5	1.5
U14-211226	1.4	2.0	1.0	1.5	1.0
U14-212231	1.7	2.3	1.0	1.5	1.5
U14-218219	1.3	2.0	1.0	1.0	1.0
U14-219257	1.2	1.5	1.0	1.0	1.0
U14-223230	1.4	1.8	1.0	1.0	1.0
U14-319013	1.6	2.0	1.0	1.5	1.0
U14-319038	1.4	2.0	1.0	1.0	1.0
U14-320041	1.4	2.0	1.0	1.0	1.0
U14-321026	1.5	1.8	1.0	1.0	2.0
U14-322043	1.4	2.0	1.0	1.0	1.0
U15-606207	1.2	1.5	1.0	1.0	1.0
U15-613163	1.6	2.0	1.0	2.0	1.0
U15-908119	1.2	1.5	1.0	1.0	1.0

PRELIMINARY TEST IIIB, 2017

LODGING (score)

Strain	Albany MO	Holdrege NE	Steven's Creek NE	Wymore NE	Hoytville OH	So Charles- ton OH
LD11-2170 (III)	2.3		1.0	1.5	1.0	1.2
IA3048 (SCN)	3.0		1.0	2.0	1.0	2.0
LD07-3395bf (SCN)	2.0		2.0	1.0	1.0	1.0
U11-920017	3.3		3.0	2.0	1.0	1.2
K15-1043	1.5		1.0	1.0	1.0	1.7
SA13-2494	1.5		1.0	1.0	1.0	1.4
SA14-5893	1.5		1.0	1.0	1.0	0.9
SA14-9653	3.0		2.0	2.0	1.0	3.6
SA14-9742	1.5		1.0	1.0	1.0	1.7
U14-210241	2.5		1.0	1.5	1.0	1.2
U14-211209	2.5		1.0	1.5	1.0	1.1
U14-211226	2.5		1.0	1.5	1.0	1.0
U14-212231	3.3		1.0	1.0	1.0	3.0
U14-218219	2.3		1.0	1.5	1.0	1.1
U14-219257	1.5		1.0	1.0	1.0	1.4
U14-223230	2.0		1.0	1.5	1.0	2.5
U14-319013	3.3		1.0	1.5	1.0	1.9
U14-319038	3.0		1.0	1.5	1.0	1.0
U14-320041	3.0		1.0	1.5	1.0	1.3
U14-321026	2.8		1.0	1.5	1.0	1.3
U14-322043	2.5		1.0	2.0	1.0	1.0
U15-606207	2.0		1.0	1.0	1.0	1.6
U15-613163	2.8		2.0	1.0	1.0	1.8
U15-908119	1.5		1.0	1.5	1.0	1.0

PRELIMINARY TEST IIIB, 2017

PLANT HEIGHT (inches)

Strain	Mean 9 Tests	Crawfords- ville IA	Urbana IL	West Lafayette IN	Manhattan KS
LD11-2170 (III)	34	40	36	37	31
IA3048 (SCN)	36	43	37	39	33
LD07-3395bf (SCN)	32	36	32	31	30
U11-920017	32	41	35	36	24
K15-1043	32	39	33	32	32
SA13-2494	33	42	32	33	31
SA14-5893	32	39	32	38	25
SA14-9653	36	48	39	32	35
SA14-9742	33	41	33	38	33
U14-210241	34	43	35	38	30
U14-211209	37	48	39	33	32
U14-211226	38	44	39	32	37
U14-212231	38	47	40	40	36
U14-218219	35	43	33	40	26
U14-219257	33	40	32	41	29
U14-223230	35	45	37	37	28
U14-319013	38	48	38	33	37
U14-319038	36	46	41	41	29
U14-320041	34	44	37	31	28
U14-321026	35	44	39	31	33
U14-322043	34	41	35	34	35
U15-606207	34	37	35	39	31
U15-613163	33	42	36	33	27
U15-908119	32	39	34	35	25

PRELIMINARY TEST IIIB, 2017

PLANT HEIGHT (inches)

Strain	Albany MO	Holdrege NE	Steven's Creek NE	Wymore NE	Hoytville OH	So Charles- ton OH
LD11-2170 (III)	34		41	36	23	29
IA3048 (SCN)	40		44	36	25	29
LD07-3395bf (SCN)	36		42	34	23	28
U11-920017	34		38	30	24	28
K15-1043	34		37	31	20	28
SA13-2494	37		40	38	20	28
SA14-5893	32		40	36	21	23
SA14-9653	41		41	37	24	31
SA14-9742	33		40	33	20	26
U14-210241	37		40	35	23	27
U14-211209	42		47	38	27	31
U14-211226	42		44	41	27	32
U14-212231	44		42	44	23	30
U14-218219	40		42	36	25	28
U14-219257	35		41	30	21	26
U14-223230	35		43	33	26	32
U14-319013	43		47	40	24	32
U14-319038	35		40	39	28	28
U14-320041	39		39	37	27	29
U14-321026	42		40	35	25	31
U14-322043	36		38	38	26	24
U15-606207	36		40	37	23	30
U15-613163	37		41	32	25	30
U15-908119	34		39	35	25	25

PRELIMINARY TEST IIIB, 2017

SEED SIZE (g/100)

Strain	Mean 10 Tests	Crawfords- ville IA	Urbana IL	West Lafayette IN	Manhattan KS
LD11-2170 (III)	16.4	16.7	16.7	16.8	16.4
IA3048 (SCN)	15.9	16.4	15.8	15.5	15.2
LD07-3395bf (SCN)	16.6	17.7	16.0	17.4	15.5
U11-920017	17.7	18.5	17.0	17.8	16.7
K15-1043	14.8	16.0	15.0	15.2	15.5
SA13-2494	13.8	13.7	13.0	14.4	13.3
SA14-5893	15.5	16.1	14.6	16.2	14.5
SA14-9653	17.6	17.5	17.8	17.9	17.3
SA14-9742	15.1	15.0	15.3	16.0	13.9
U14-210241	17.2	17.3	16.1	16.9	15.7
U14-211209	16.2	17.2	15.3	15.6	15.5
U14-211226	17.3	18.1	17.1	16.6	17.5
U14-212231	15.7	15.7	15.3	15.1	15.1
U14-218219	15.8	15.6	14.3	16.1	16.7
U14-219257	15.1	15.9	13.7	14.7	13.9
U14-223230	15.4	15.4	13.7	15.2	13.6
U14-319013	17.2	17.2	15.9	17.6	15.8
U14-319038	16.0	16.3	14.3	16.8	15.0
U14-320041	16.2	15.6	14.8	16.1	15.0
U14-321026	13.7	12.4	12.5	14.1	12.1
U14-322043	14.9	15.0	13.9	14.8	13.4
U15-606207	16.1	16.0	14.3	15.7	15.9
U15-613163	15.7	16.0	14.5	16.1	15.2
U15-908119	16.7	17.4	16.3	15.7	16.6

PRELIMINARY TEST IIIB, 2017

SEED SIZE (g/100)

Strain	Albany MO	Holdrege NE	Steven's Creek NE	Wymore NE	Hoytville OH	So Charles- ton OH
LD11-2170 (III)	16.4	17.8	15.4	16.2	16.3	15.3
IA3048 (SCN)	17.2	17.6	15.6	14.9	16.0	15.2
LD07-3395bf (SCN)	17.7	17.3	16.1	15.9	16.7	15.9
U11-920017	18.5	20.3	17.3	17.9	17.8	15.4
K15-1043	14.7	14.7	14.0	14.7	14.8	13.5
SA13-2494	14.4	13.6	12.9	13.2	15.6	13.9
SA14-5893	16.6	15.7	15.4	14.9	16.4	14.7
SA14-9653	19.2	18.9	16.5	17.3	17.4	16.6
SA14-9742	15.4	15.5	15.1	14.7	15.5	14.5
U14-210241	17.9	19.4	17.8	18.4	17.5	15.1
U14-211209	16.2	18.2	17.0	17.2	16.3	13.9
U14-211226	17.9	18.5	16.5	17.5	18.0	15.6
U14-212231	16.5	18.3	15.0	16.3	15.9	13.6
U14-218219	16.1	17.3	15.7	16.4	16.3	14.1
U14-219257	15.3	17.7	15.2	15.2	16.1	13.3
U14-223230	16.7	18.2	16.2	15.5	15.7	13.5
U14-319013	18.8	20.4	17.5	17.3	17.1	14.2
U14-319038	17.2	17.7	15.9	16.9	16.3	14.0
U14-320041	17.7	18.2	16.5	17.1	16.2	15.1
U14-321026	15.9	15.6	14.9	13.4	14.1	11.8
U14-322043	16.3	17.7	15.6	14.6	14.8	12.7
U15-606207	17.9	17.4	15.7	16.8	16.2	14.7
U15-613163	15.6	16.4	14.9	16.0	16.6	15.4
U15-908119	18.1	18.4	16.4	18.2	16.1	13.8

PRELIMINARY TEST IIIB, 2017

SEED QUALITY (score)

Strain	Mean 10 Tests	Crawfords- ville IA	Urbana IL	West Lafayette IN	Manhattan KS
LD11-2170 (III)	1.4	1.0	2.0	1.0	3.0
IA3048 (SCN)	1.4	1.0	2.0	1.0	3.0
LD07-3395bf (SCN)	1.5	1.0	2.0	1.0	3.0
U11-920017	1.3	1.0	2.0	1.0	3.0
K15-1043	1.4	1.0	1.0	1.0	3.0
SA13-2494	1.4	1.0	2.0	1.0	3.0
SA14-5893	1.5	1.0	1.0	1.0	4.0
SA14-9653	1.2	1.0	1.0	1.0	2.0
SA14-9742	1.4	1.0	2.0	1.0	3.0
U14-210241	1.5	1.0	2.0	1.0	4.0
U14-211209	1.5	1.0	2.0	1.0	3.0
U14-211226	1.4	1.0	2.0	1.0	3.0
U14-212231	1.4	1.0	1.0	1.0	3.0
U14-218219	1.5	1.0	2.0	1.0	2.0
U14-219257	1.5	1.0	2.0	1.0	3.0
U14-223230	1.4	1.0	1.0	1.0	3.0
U14-319013	1.6	1.0	2.0	1.0	3.0
U14-319038	1.4	1.0	1.0	1.0	3.0
U14-320041	1.6	1.0	2.0	1.0	3.0
U14-321026	1.4	1.0	1.0	1.0	3.0
U14-322043	1.2	1.0	1.0	1.0	2.0
U15-606207	1.5	1.0	2.0	1.0	3.0
U15-613163	1.7	1.0	2.0	1.0	3.0
U15-908119	1.2	1.0	1.0	1.0	3.0

PRELIMINARY TEST IIIB, 2017

SEED QUALITY (score)

Strain	Albany MO	Holdrege NE	Steven's Creek NE	Wymore NE	Hoytville OH	So Charles- ton OH
LD11-2170 (III)	1.5	1.0	1.0	1.0	1.0	1.6
IA3048 (SCN)	1.5	1.0	1.0	1.0	1.0	1.4
LD07-3395bf (SCN)	2.0	1.0	1.0	1.5	1.0	1.8
U11-920017	1.0	1.0	1.0	1.0	1.0	1.4
K15-1043	1.0	1.5	1.5	2.0	1.0	1.2
SA13-2494	1.0	1.0	1.0	1.5	1.0	1.4
SA14-5893	2.5	1.0	1.0	1.5	1.0	1.5
SA14-9653	1.5	1.0	1.0	1.0	1.0	1.5
SA14-9742	1.0	1.0	1.5	1.5	1.0	1.5
U14-210241	1.0	1.5	1.0	1.5	1.0	0.9
U14-211209	1.5	1.0	1.5	1.5	1.0	2.0
U14-211226	1.5	1.0	1.0	1.5	1.0	1.4
U14-212231	1.5	1.5	1.0	1.5	1.0	1.0
U14-218219	2.5	1.0	1.5	2.0	1.0	1.4
U14-219257	1.0	1.0	2.0	1.5	1.0	1.7
U14-223230	1.5	1.0	2.0	1.0	1.0	1.1
U14-319013	1.5	1.0	2.0	1.5	1.0	1.7
U14-319038	1.5	1.0	2.0	1.0	1.0	1.5
U14-320041	1.5	1.0	2.0	1.5	1.0	1.6
U14-321026	1.5	1.0	2.0	1.5	1.0	0.9
U14-322043	1.0	1.0	1.5	1.5	1.0	1.1
U15-606207	1.5	1.0	1.5	1.0	1.0	1.9
U15-613163	1.5	2.0	2.0	1.5	1.0	1.6
U15-908119	1.5	1.0	1.0	1.0	1.0	0.9

PRELIMINARY TEST IIIB, 2017

PROTEIN (%)

Strain	Mean 7 Tests	Crawfords- ville IA	Urbana IL	West Laf IN	Albany MO	Holdrege NE	Steven's Creek NE	Hoytville OH
LD11-2170 (III)	34.0	33.8	33.1	34.7	33.6	35.0	35.4	32.7
IA3048 (SCN)	34.5	34.4	34.0	34.0	34.4	35.8	36.3	32.8
LD07-3395bf (SCN)	32.3	31.9	32.4	31.7	32.6	34.0	34.2	29.7
U11-920017	32.7	31.5	31.6	32.2	31.7	35.6	34.0	32.2
K15-1043	34.4	36.1	30.1	33.7	33.4	37.1	36.6	34.1
SA13-2494	33.3	32.2	35.4	32.2	32.4	33.0	35.0	32.6
SA14-5893	34.3	33.8	31.7	34.6	34.2	35.8	36.1	34.2
SA14-9653	35.6	34.0	34.6	35.1	37.1	36.1	36.7	35.8
SA14-9742	34.4	34.0	33.4	34.3	33.0	36.2	36.1	34.2
U14-210241	32.1	31.4	30.6	32.2	31.7	33.9	33.4	31.5
U14-211209	32.6	33.1	31.7	33.2	31.9	34.1	33.7	31.0
U14-211226	32.6	32.9	30.6	31.3	32.8	34.8	33.5	32.3
U14-212231	30.5	31.4	29.2	31.4	30.9	28.5	31.8	30.6
U14-218219	32.1	31.8	30.9	30.6	32.6	34.7	33.6	30.4
U14-219257	32.3	32.5	31.2	32.0	31.4	34.6	33.3	31.2
U14-223230	33.2	33.5	32.1	32.6	31.3	35.2	35.6	32.2
U14-319013	33.3	32.4	32.7	31.8	33.0	36.4	34.4	32.2
U14-319038	33.4	33.2	31.9	33.7	32.3	35.2	35.2	32.3
U14-320041	32.9	32.5	32.1	32.7	33.5	31.6	35.3	32.3
U14-321026	34.6	34.2	33.6	33.2	34.5	35.8	38.4	32.4
U14-322043	34.4	35.1	33.7	33.5	33.4	37.0	35.5	32.9
U15-606207	32.3	32.3	30.8	31.9	32.6	36.4	31.7	30.1
U15-613163	32.9	32.9	31.1	33.1	32.4	35.9	33.9	31.0
U15-908119	33.6	33.6	32.8	32.2	33.7	34.9	35.4	32.4

OIL (%)

Strain	Mean 7 Tests	Crawfords- ville IA	Urbana IL	West Laf IN	Albany MO	Holdrege NE	Steven's Creek NE	Hoytville OH
LD11-2170 (III)	19.2	18.8	19.9	19.4	19.8	18.5	19.0	19.3
IA3048 (SCN)	17.9	17.4	18.8	18.0	18.6	17.0	17.5	18.0
LD07-3395bf (SCN)	19.9	20.0	19.2	20.3	20.7	19.0	19.4	20.5
U11-920017	19.3	19.4	20.6	19.2	20.1	18.5	18.9	18.7
K15-1043	18.4	17.3	20.8	18.4	19.1	17.3	17.8	18.4
SA13-2494	19.2	19.3	18.7	19.6	20.3	19.0	18.6	19.2
SA14-5893	18.8	18.7	20.1	18.8	19.6	17.7	18.5	18.4
SA14-9653	18.4	18.4	18.7	18.5	20.0	17.5	18.0	17.9
SA14-9742	18.9	18.7	19.5	19.1	19.8	18.0	18.5	18.5
U14-210241	19.4	19.4	20.6	19.2	20.1	18.2	19.4	19.2
U14-211209	19.2	18.8	19.7	19.0	19.8	18.6	19.1	19.2
U14-211226	19.3	18.9	20.0	19.3	19.8	18.3	19.2	19.4
U14-212231	19.7	19.1	20.8	19.9	20.0	18.9	19.6	19.6
U14-218219	19.8	20.0	20.8	20.0	20.2	18.4	19.5	20.1
U14-219257	19.3	19.2	19.7	19.7	19.9	18.3	19.1	19.2
U14-223230	19.2	19.1	20.0	19.4	20.4	18.2	18.5	19.2
U14-319013	19.5	19.7	20.1	20.0	20.2	18.1	18.9	19.7
U14-319038	18.5	19.2	20.0	19.3	20.4	12.9	18.8	19.4
U14-320041	19.6	19.5	20.2	19.7	19.8	20.0	18.7	19.2
U14-321026	19.4	18.9	19.9	20.0	19.8	18.5	19.1	19.7
U14-322043	18.7	18.3	19.3	19.1	19.6	17.4	17.9	19.0
U15-606207	20.1	19.7	20.6	20.2	20.4	18.1	21.5	20.2
U15-613163	19.1	18.7	20.1	19.1	19.9	17.7	18.7	19.2
U15-908119	19.7	19.7	20.2	19.9	20.3	19.1	19.3	19.3

UNIFORM TEST IV, 2017

Ent.	Strain	Parentage	Seed Source	Previous Testing	Gen. Comp.	Unique Traits	Germ. %	Sd. Wt. g/100
1	LD06-7620 (IV)	IA3023 x LD00- 3309	Diers	6	F5	SCN	94	14.7
2	LD00-2817P (L)	Ina x Dwight	Diers	8	F5	SCN	88	13.7
3	LD07-3395bf (SCN)	LD07-3395 Reselection	Diers	2	F5	SCN	88	15.4
4	DSN11-03004	IA3023 x 4J105-3-4	Diers/Rainey	PTIIIA			98	16.7
5	DSN11-03174	IA 3023 x 4J105-3-4	Diers/Rainey	PTIIIA			96	16.8
6	DSN11-10057	IA3023 x LD00-3309	Diers/Rainey	PTIIIA			94	15.3
7	DSN11-27183	IA3023 x LG05-4292	Diers/Rainey	PTIIIA			98	13.3
8	K14-1094	K07-1633 x LD04-13265	Schapaugh	SCNPIV				
9	K14-1153	LD04-13265 x K07-1633	Schapaugh	SCNPIV				
10	K14-1358	NCC05-1261 x 435.TCS	Schapaugh	PTIV	F4	STS		
11	LD13-8769	LD06-7596 x 09SCNPOP 11-9	Diers	SCNPIV	F5	SCN soja	90	14.8
12	LG13-3993	LG04-5196 x LG06-5920	Nelson	1	F6	Diversity	92	20.1
13	LG14-7959	06JR205000 x LG07-6911	Nelson	PTIV	F6	Genetic Diversity	80	16.4
14	LG14-8024	LG04-5190 x 03JR309156	Nelson	PTIV	F6	Genetic Diversity	96	19.4
15	S13-2743C	LS07-3125 x S05-11400	Chen	Initial		SCN	85	12.6
16	SA12-1451	CL06-121119 x S07-5117	Scaboo	1	F5		94	13.8

UNIFORM TEST IV, 2017
DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	Green Stem Score South Charleston
LD06-7620 (IV)	PLtBIYBI	4.0
LD00-2817P (L)	PGTIYBI	4.0
LD07-3395bf (SCN)	WGTIYBfI	3.3
DSN11-03004	WGTSYBI	2.0
DSN11-03174	WGTSYBI	3.0
DSN11-10057	PTBSYBI	1.7
DSN11-27183	WGTSYBfI	1.3
K14-1094	WT+GBDYBI	3.7
K14-1153	WTBIYBI	3.3
K14-1358	PTBSYBI	2.7
LD13-8769	PLtBSYBI	3.0
LG13-3993	PTBSYBI	3.7
LG14-7959	PTBIYBfI	4.3
LG14-8024	WTBSYBI	4.3
S13-2743C	WGTSYBfI	4.7
SA12-1451	PGTSYDibI	4.7

UNIFORM TEST IV, 2017

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 12 Score	Composition	
								Protein 6 %	Oil 6 %
LD06-7620 (IV)	65.5	7	9/29	1.3	33	14.8	1.9	33.8	19.5
LD00-2817P (L)	60.8	16	2.8	1.5	38	14.2	2.0	31.9	20.6
LD07-3395bf (SCN)	67.8	2	-2.5	1.5	32	16.0	1.9	31.3	20.8
DSN11-03004	64.1	9	-2.9	1.9	39	17.4	1.8	34.1	19.6
DSN11-03174	62.7	12	-2.8	1.4	31	17.5	1.9	31.8	20.4
DSN11-10057	61.0	15	-4.2	1.3	33	15.6	1.7	32.7	19.4
DSN11-27183	62.4	13	-4.3	1.4	36	15.0	1.8	32.5	20.2
K14-1094	66.5	5	1.8	1.5	35	14.8	1.7	32.6	19.6
K14-1153	61.7	14	1.6	1.5	35	14.3	1.8	33.5	19.3
K14-1358	63.6	10	-0.9	2.5	39	15.6	2.0	35.0	17.6
LD13-8769	66.2	6	-1.0	1.9	38	14.5	1.7	33.5	19.3
LG13-3993	67.5	3	3.0	1.8	38	17.8	2.0	33.2	20.0
LG14-7959	63.6	10	5.1	1.7	40	15.0	1.8	34.4	19.4
LG14-8024	67.3	4	5.0	1.8	40	17.3	1.8	34.9	19.1
S13-2743C	65.2	8	5.3	1.6	41	13.3	1.9	34.6	19.2
SA12-1451	69.8	1	4.5	1.6	33	13.8	1.9	35.6	18.9
Mean	64.9		30.6	1.7	36.3	15.3	1.8		
C.V. (%)	8.5		8.2	30.1	6.7	4.5	25.1		
L.S.D. (5%)	2.3		1.0	0.2	1.1	0.4	0.3		

126.4 Days After Planting

UNIFORM TEST IV, 2017

2016-2017 2-YEAR MEAN

No. of Tests Strain	Yield 25 bu/a	Rank 25 No.	Maturity 25 Date	Lodging 25 Score	Plant Height 24 In.	Seed Size 25 g/100	Seed Quality 25 Score	Composition	
								Protein 11 %	Oil 11 %
LD06-7620 (IV)	67.6	4	9/29	1.8	36	14.7	2.0	34.6	19.4
LD00-2817P (L)	64.7	5	1.8	2.1	41	13.9	2.1	32.8	20.5
LD07-3395bf (SCN)	68.7	2	-3.0	1.8	33	15.8	2.1	32.4	20.8
LG13-3993	68.2	3	2.4	2.2	40	17.6	2.2	34.0	20.1
SA12-1451	71.3	1	3.7	1.9	34	13.5	2.0	36.0	19.0

128.6 Days After Planting

UNIFORM TEST IV, 2017

YIELD (bu/a)

Strain	Mean 12 Tests	Ivesdale IL	Neoga IL	Urbana IL	Butler- ville IN	West Lafayette IN
LD06-7620 (IV)	65.5	47.0	60.6	69.1	61.1	67.9
LD00-2817P (L)	60.8	43.7	55.3	68.3	64.9	68.0
LD07-3395bf (SCN)	67.8	66.3	62.5	67.8	67.5	68.1
DSN11-03004	64.1	60.5	62.0	68.6	61.3	62.0
DSN11-03174	62.7	56.6	62.7	63.6	48.8	64.7
DSN11-10057	61.0	54.5	54.2	59.3	56.8	64.8
DSN11-27183	62.4	54.9	56.1	62.7	58.0	67.4
K14-1094	66.5	60.0	62.1	63.5	59.0	67.5
K14-1153	61.7	46.4	60.8	57.7	61.0	57.2
K14-1358	63.6	55.2	60.1	67.2	64.6	64.9
LD13-8769	66.2	50.7	60.4	69.6	71.6	73.2
LG13-3993	67.5	60.6	66.1	71.6	61.4	72.3
LG14-7959	63.6	57.7	54.3	64.9	62.6	70.3
LG14-8024	67.3	61.6	61.4	60.9	67.9	71.5
S13-2743C	65.2	47.7	53.7	71.1	71.6	65.3
SA12-1451	69.8	70.8	60.4	71.1	71.1	68.9
Location Mean		55.9	59.5	66.1	63.1	67.1
C.V. (%)		10.8	3.9	6.6	5.1	4.5
L.S.D. (5%)		12.8	4.9	9.2	4.4	4.2
Row Sp. (In.)		30	30	30	30	30
Rows/Plot		4	4	4	4	4
Reps		2	2	2	3	3

UNIFORM TEST IV, 2017

YIELD (bu/a)

Strain	Manhattan KS	Onaga KS	Ottawa KS	Albany MO	Novelty MO	Portageville Loam MO	So Charles- ton OH
LD06-7620 (IV)	85.8	70.7	58.8	77.0	63.2	59.7	64.8
LD00-2817P (L)	77.7	66.3	60.4	67.3	51.3	52.8	53.3
LD07-3395bf (SCN)	85.2	70.0	67.6	73.6	61.2	65.6	58.0
DSN11-03004	73.7	65.5	60.6	66.3	67.2	63.7	57.8
DSN11-03174	74.9	70.6	56.9	72.0	59.1	62.1	60.0
DSN11-10057	79.2	67.6	58.7	66.8	61.5	60.4	47.9
DSN11-27183	74.7	68.1	58.8	63.1	63.5	61.2	60.1
K14-1094	86.1	64.2	69.9	72.7	69.0	66.3	57.5
K14-1153	83.9	70.1	61.8	67.3	56.6	59.4	57.9
K14-1358	78.9	67.4	58.8	61.7	62.5	63.1	58.8
LD13-8769	81.8	68.9	57.5	68.8	64.2	60.7	67.3
LG13-3993	83.2	67.6	66.9	69.9	69.7	67.8	52.8
LG14-7959	74.4	64.2	67.1	64.2	64.3	63.2	56.0
LG14-8024	70.3	76.7	64.9	71.2	65.6	66.4	68.6
S13-2743C	80.1	73.0	63.7	69.2	61.8	64.4	60.2
SA12-1451	87.7	75.8	62.6	76.6	61.0	67.7	64.2
Location Mean	79.9	69.2	62.2	69.2	62.6	62.8	59.1
C.V. (%)	5.8	5.2	4.8	6.7	7.7	7.3	12.3
L.S.D. (5%)	6.3	5.8	4.9	7.8	8.1	9.2	12.1
Row Sp. (In.)	30	30	30	30	30	30	15
Rows/Plot	4	4	4	4	4	4	6
Reps	3	3	3	3	3	3	3

UNIFORM TEST IV, 2017

YIELD RANK

Strain	Yield Rank	Ivesdale IL	Neoga IL	Urbana IL	Butler-ville IN	West Lafayette IN
LD06-7620 (IV)	7	14	8	5	11	8
LD00-2817P (L)	16	16	13	7	6	7
LD07-3395bf (SCN)	2	2	3	8	5	6
DSN11-03004	9	5	5	6	10	15
DSN11-03174	12	8	2	11	16	14
DSN11-10057	15	11	15	15	15	13
DSN11-27183	13	10	12	13	14	10
K14-1094	5	6	4	12	13	9
K14-1153	14	15	7	16	12	16
K14-1358	10	9	11	9	7	12
LD13-8769	6	12	9	4	1	1
LG13-3993	3	4	1	1	9	2
LG14-7959	10	7	14	10	8	4
LG14-8024	4	3	6	14	4	3
S13-2743C	8	13	16	2	1	11
SA12-1451	1	1	9	2	3	5

UNIFORM TEST IV, 2017

MATURITY (date)

Strain	Mean 12 Tests	Ivesdale IL	Neoga IL	Urbana IL	Butler-ville IN	West Lafayette IN
LD06-7620 (IV)	9/29	9/26	9/22	9/27	10/10	10/6
LD00-2817P (L)	3	9	2	2	3	9
LD07-3395bf (SCN)	-2	-4	-2	-4	-4	3
DSN11-03004	-3	-4	-1	-3	-9	6
DSN11-03174	-3	-4	-1	-3	-8	6
DSN11-10057	-4	-3	-4	-2	-10	3
DSN11-27183	-4	-7	-1	-5	-10	3
K14-1094	2	9	1	0	0	9
K14-1153	2	10	-1	1	-3	9
K14-1358	-1	-1	0	1	-6	3
LD13-8769	-1	-2	0	0	-5	7
LG13-3993	3	11	4	3	-4	8
LG14-7959	5	8	7	7	2	12
LG14-8024	5	7	7	7	-1	10
S13-2743C	5	9	5	7	3	12
SA12-1451	5	4	7	7	3	13
Date Planted	5/26	5/17	5/30	5/16	6/6	6/2
Days to Mature	126	132	115	134	126	126

UNIFORM TEST IV, 2017

YIELD RANK

Strain	Manhattan KS	Onaga KS	Ottawa KS	Albany MO	Novelty MO	Portageville Loam MO	So Charles- ton OH
LD06-7620 (IV)	3	4	11	1	8	14	3
LD00-2817P (L)	11	13	10	10	16	16	14
LD07-3395bf (SCN)	4	7	2	3	12	5	9
DSN11-03004	15	14	9	13	3	7	11
DSN11-03174	12	5	16	5	14	10	7
DSN11-10057	9	10	14	12	11	13	16
DSN11-27183	13	9	11	15	7	11	6
K14-1094	2	16	1	4	2	4	12
K14-1153	5	6	8	11	15	15	10
K14-1358	10	12	11	16	9	9	8
LD13-8769	7	8	15	9	6	12	2
LG13-3993	6	10	4	7	1	1	15
LG14-7959	14	16	3	14	5	8	13
LG14-8024	16	1	5	6	4	3	1
S13-2743C	8	3	6	8	10	6	5
SA12-1451	1	2	7	2	13	2	4

UNIFORM TEST IV, 2017

MATURITY (date)

Strain	Manhattan KS	Onaga KS	Ottawa KS	Albany MO	Novelty MO	Portageville Loam MO	So Charles- ton OH
LD06-7620 (IV)	10/1	9/24	10/8	10/1	9/28	9/17	10/4
LD00-2817P (L)	-1	5	-2	0	1	5	2
LD07-3395bf (SCN)	-6	-1	-3	-2	-4	2	-5
DSN11-03004	-6	-3	-5	-2	-5	0	-3
DSN11-03174	-3	-1	-7	-2	-4	-1	-5
DSN11-10057	-7	-2	-9	-4	-4	-2	-7
DSN11-27183	-8	-2	-4	-5	-7	-1	-6
K14-1094	-1	4	-1	0	-1	3	-1
K14-1153	-3	3	-1	0	-1	4	0
K14-1358	-2	-0	-3	-2	-3	5	-3
LD13-8769	-1	-1	-6	-2	-3	1	0
LG13-3993	2	5	2	1	-1	6	-1
LG14-7959	1	8	5	3	-0	8	1
LG14-8024	2	9	5	3	1	9	1
S13-2743C	2	8	6	3	1	6	2
SA12-1451	0	5	5	2	0	6	2
Date Planted	5/25	5/15	6/21	6/3	5/16	5/22	5/16
Days to Mature	129	132	109	120	135	118	141

UNIFORM TEST IV, 2017

LODGING (score)

Strain	Mean 12 Tests	Ivesdale IL	Neoga IL	Urbana IL	Butler- ville IN	West Lafayette IN
LD06-7620 (IV)	1.3	1.5	1.0	1.0	1.0	1.0
LD00-2817P (L)	1.5	1.5	1.0	1.0	1.0	1.0
LD07-3395bf (SCN)	1.5	2.0	1.3	1.0	1.0	1.0
DSN11-03004	1.9	2.3	1.0	1.0	1.5	1.0
DSN11-03174	1.4	1.5	1.3	1.0	1.0	1.0
DSN11-10057	1.3	1.5	1.0	1.0	1.0	1.0
DSN11-27183	1.4	1.5	1.0	1.0	1.0	1.0
K14-1094	1.5	1.5	1.0	1.0	1.3	1.0
K14-1153	1.5	1.5	1.0	1.0	1.0	1.0
K14-1358	2.5	2.3	1.5	2.0	1.8	1.0
LD13-8769	1.9	1.6	1.0	1.0	1.3	1.0
LG13-3993	1.8	1.8	1.0	1.0	1.0	1.0
LG14-7959	1.7	1.8	1.5	1.0	1.0	1.0
LG14-8024	1.8	2.0	1.5	1.0	1.0	1.0
S13-2743C	1.6	2.0	1.3	1.0	1.0	1.0
SA12-1451	1.6	1.8	1.5	1.0	1.0	1.0

UNIFORM TEST IV, 2017

PLANT HEIGHT (inches)

Strain	Mean 11 Tests	Ivesdale IL	Neoga IL	Urbana IL	Butler- ville IN	West Lafayette IN
LD06-7620 (IV)	33	29	34	39		28
LD00-2817P (L)	38	33	39	42		35
LD07-3395bf (SCN)	32	26	32	34		30
DSN11-03004	39	41	39	42		36
DSN11-03174	31	26	33	36		27
DSN11-10057	33	24	33	36		33
DSN11-27183	36	35	36	41		32
K14-1094	35	29	37	37		32
K14-1153	35	30	36	34		30
K14-1358	39	37	41	43		34
LD13-8769	38	32	36	43		38
LG13-3993	38	33	38	43		35
LG14-7959	40	42	40	42		38
LG14-8024	40	41	42	41		39
S13-2743C	41	38	40	44		40
SA12-1451	33	34	33	35		31

UNIFORM TEST IV, 2017

LODGING (score)

Strain	Manhattan KS	Onaga KS	Ottawa KS	Albany MO	Novelty MO	Portageville Loam MO	So Charles- ton OH
LD06-7620 (IV)	1.0	1.3	1.0	1.5	1.3	2.0	2.3
LD00-2817P (L)	2.0	1.0	1.0	1.7	1.7	3.0	2.7
LD07-3395bf (SCN)	1.0	1.0	1.0	3.0	1.5	2.3	2.0
DSN11-03004	2.0	2.0	1.0	4.0	1.8	2.3	3.0
DSN11-03174	1.0	1.0	1.0	2.7	1.5	2.0	2.0
DSN11-10057	1.0	1.7	1.0	2.2	1.3	2.0	1.3
DSN11-27183	1.0	1.0	1.0	2.5	1.5	2.0	2.7
K14-1094	1.0	1.0	1.0	1.8	1.5	2.7	2.7
K14-1153	2.0	2.0	1.0	1.5	1.5	2.3	2.7
K14-1358	3.0	3.3	1.3	4.2	1.8	3.7	3.7
LD13-8769	2.3	3.0	1.0	2.8	1.5	3.0	3.3
LG13-3993	1.7	3.0	1.0	3.2	1.2	3.3	2.3
LG14-7959	1.3	1.3	1.0	3.0	1.3	3.0	2.7
LG14-8024	2.3	2.0	1.0	2.8	1.5	2.7	3.3
S13-2743C	1.3	1.0	1.0	2.2	1.5	2.7	3.3
SA12-1451	1.3	1.0	1.0	1.7	1.7	2.3	3.7

UNIFORM TEST IV, 2017

PLANT HEIGHT (inches)

Strain	Manhattan KS	Onaga KS	Ottawa KS	Albany MO	Novelty MO	Portageville Loam MO	So Charles- ton OH
LD06-7620 (IV)	39	37	31	35	28	32	32
LD00-2817P (L)	47	46	38	39	30	39	35
LD07-3395bf (SCN)	35	37	30	33	26	36	29
DSN11-03004	40	46	35	43	33	40	38
DSN11-03174	33	36	29	33	27	32	30
DSN11-10057	37	40	31	34	25	35	31
DSN11-27183	39	42	34	37	30	36	34
K14-1094	39	42	35	38	31	36	33
K14-1153	42	43	33	36	29	35	33
K14-1358	41	45	38	43	36	37	35
LD13-8769	44	47	35	40	30	40	37
LG13-3993	44	46	33	41	31	42	33
LG14-7959	43	47	38	39	32	44	38
LG14-8024	43	47	37	41	34	40	36
S13-2743C	44	48	37	42	34	42	39
SA12-1451	35	38	30	35	28	32	32

UNIFORM TEST IV, 2017

SEED SIZE (g/100)

Strain	Mean 12 Tests	Ivesdale IL	Neoga IL	Urbana IL	Butler- ville IN	West Lafayette IN
LD06-7620 (IV)	14.8	13.7	13.3	14.9	16.0	15.2
LD00-2817P (L)	14.2	14.3	11.7	15.2	15.1	15.0
LD07-3395bf (SCN)	16.0	14.9	14.6	16.0	17.5	16.6
DSN11-03004	17.4	16.2	15.3	17.7	18.3	17.6
DSN11-03174	17.5	16.7	15.8	17.7	17.4	18.4
DSN11-10057	15.6	14.9	14.2	16.1	16.3	16.8
DSN11-27183	15.0	13.9	13.6	15.0	15.3	15.5
K14-1094	14.8	13.5	13.3	15.1	15.2	15.0
K14-1153	14.3	13.4	12.6	14.8	16.6	14.2
K14-1358	15.6	13.8	13.6	16.3	16.5	16.1
LD13-8769	14.5	13.6	13.1	15.3	15.3	15.3
LG13-3993	17.8	17.3	15.6	18.5	17.5	18.3
LG14-7959	15.0	15.4	12.8	15.5	15.4	15.5
LG14-8024	17.3	15.9	15.0	18.0	18.5	17.3
S13-2743C	13.3	12.4	11.0	14.3	13.0	13.6
SA12-1451	13.8	12.9	12.1	14.4	13.9	14.3

UNIFORM TEST IV, 2017

SEED QUALITY (score)

Strain	Mean 12 Tests	Ivesdale IL	Neoga IL	Urbana IL	Butler- ville IN	West Lafayette IN
LD06-7620 (IV)	1.9	2.0	2.0	2.0	1.0	1.0
LD00-2817P (L)	2.0	2.0	2.0	1.0	1.0	1.0
LD07-3395bf (SCN)	1.9	2.5	2.0	2.0	1.0	1.0
DSN11-03004	1.8	2.0	2.0	2.0	1.0	1.0
DSN11-03174	1.9	2.0	2.0	2.0	1.0	1.0
DSN11-10057	1.7	2.0	1.0	2.0	1.0	1.0
DSN11-27183	1.8	1.8	1.0	2.0	1.0	1.0
K14-1094	1.7	2.0	1.0	1.0	1.0	1.0
K14-1153	1.8	2.0	1.0	2.0	1.0	1.0
K14-1358	2.0	2.5	2.0	2.0	1.0	1.0
LD13-8769	1.7	1.5	1.0	2.0	1.0	1.0
LG13-3993	2.0	2.5	1.0	2.0	1.0	1.0
LG14-7959	1.8	2.0	2.0	2.0	1.0	1.0
LG14-8024	1.8	2.3	2.0	2.0	1.0	1.0
S13-2743C	1.9	1.5	2.0	2.0	1.0	1.0
SA12-1451	1.9	2.0	2.0	2.0	1.0	1.0

UNIFORM TEST IV, 2017

SEED SIZE (g/100)

Strain	Manhattan KS	Onaga KS	Ottawa KS	Albany MO	Novelty MO	Portageville Loam MO	So Charles- ton OH
LD06-7620 (IV)	15.6	13.2	13.6	16.4	16.0	14.6	15.0
LD00-2817P (L)	15.8	12.9	14.0	15.5	13.6	12.4	15.1
LD07-3395bf (SCN)	17.2	15.6	15.1	17.5	15.8	15.3	16.1
DSN11-03004	18.7	16.9	17.0	18.5	18.1	16.6	18.1
DSN11-03174	18.4	17.9	15.9	18.9	18.3	16.9	17.7
DSN11-10057	17.0	15.5	14.3	16.5	16.1	14.8	15.0
DSN11-27183	16.6	15.4	15.1	16.5	14.9	13.8	15.0
K14-1094	17.2	14.5	14.0	15.9	15.3	14.2	14.8
K14-1153	15.0	14.1	14.0	15.4	13.9	13.1	14.4
K14-1358	18.1	15.0	13.3	18.0	15.6	15.5	15.2
LD13-8769	16.2	14.5	12.5	15.0	14.6	13.2	15.7
LG13-3993	21.6	17.8	17.0	19.0	17.4	16.5	16.9
LG14-7959	15.6	14.3	15.9	16.1	14.9	13.6	14.7
LG14-8024	18.6	17.4	18.3	19.7	16.0	15.5	17.7
S13-2743C	14.4	14.0	14.3	13.1	12.9	13.1	13.3
SA12-1451	15.9	14.4	13.6	15.4	13.5	11.7	13.5

UNIFORM TEST IV, 2017

SEED QUALITY (score)

Strain	Manhattan KS	Onaga KS	Ottawa KS	Albany MO	Novelty MO	Portageville Loam MO	So Charles- ton OH
LD06-7620 (IV)	3.0	3.0	2.0	1.5	1.5	2.0	1.3
LD00-2817P (L)	3.0	3.0	3.0	2.0	1.5	3.0	1.7
LD07-3395bf (SCN)	2.0	3.0	2.0	2.5	2.0	1.3	2.0
DSN11-03004	3.0	2.0	2.0	1.5	2.0	1.0	1.7
DSN11-03174	2.0	3.0	2.0	1.5	2.0	2.3	2.0
DSN11-10057	3.0	3.0	1.0	1.5	1.5	1.7	2.0
DSN11-27183	3.0	3.0	3.0	1.5	1.0	2.0	1.7
K14-1094	3.0	3.0	1.0	1.5	1.5	2.3	1.7
K14-1153	3.0	3.0	2.0	1.5	1.5	1.3	2.0
K14-1358	3.0	3.0	3.0	1.5	2.0	1.3	2.0
LD13-8769	3.0	2.0	2.0	1.5	1.5	2.0	1.3
LG13-3993	4.0	3.0	2.0	2.0	1.5	2.0	2.0
LG14-7959	3.0	2.0	2.0	1.5	1.5	2.3	1.3
LG14-8024	3.0	3.0	2.0	1.5	1.0	1.7	1.0
S13-2743C	3.0	3.0	3.0	1.5	1.5	2.0	1.3
SA12-1451	3.0	3.0	3.0	1.5	1.0	2.0	1.3

UNIFORM TEST IV, 2017**PROTEIN (%)**

Strain	Mean 6 Tests	Neoga IL	Urbana IL	Butler- ville IN	West Laf IN	Albany MO	Novelty MO
LD06-7620 (IV)	33.8	34.5	34.2	34.5	33.0	33.2	33.1
LD00-2817P (L)	31.9	33.2	32.9	32.4	31.2	31.5	30.2
LD07-3395bf (SCN)	31.3	32.7	30.9	32.4	29.9	31.9	29.8
DSN11-03004	34.1	34.7	34.8	34.7	33.2	34.3	33.0
DSN11-03174	31.8	33.9	33.1	31.5	30.1	31.9	30.3
DSN11-10057	32.7	33.6	32.2	33.2	33.2	32.6	31.2
DSN11-27183	32.5	34.4	33.1	32.1	32.1	33.0	30.1
K14-1094	32.6	35.0	32.6	32.4	32.6	32.0	31.3
K14-1153	33.5	34.4	34.8	34.9	30.6	34.1	32.2
K14-1358	35.0	36.1	34.9	35.5	34.4	35.4	34.0
LD13-8769	33.5	34.5	33.1	34.1	33.0	33.7	32.8
LG13-3993	33.2	33.9	33.5	33.8	32.7	32.9	32.3
LG14-7959	34.4	35.6	34.1	34.7	34.4	34.9	32.5
LG14-8024	34.9	37.2	36.1	34.6	34.4	35.1	32.2
S13-2743C	34.6	36.2	36.5	34.7	34.1	34.0	32.2
SA12-1451	35.6	37.0	36.0	34.9	35.0	35.4	35.5

UNIFORM TEST IV, 2017**OIL (%)**

Strain	Mean 6 Tests	Neoga IL	Urbana IL	Butler- ville IN	West Laf IN	Albany MO	Novelty MO
LD06-7620 (IV)	19.5	19.4	19.3	19.1	18.9	19.8	20.4
LD00-2817P (L)	20.6	21.0	20.2	20.1	20.0	20.6	21.6
LD07-3395bf (SCN)	20.8	20.8	20.2	20.4	20.4	20.7	22.0
DSN11-03004	19.6	19.9	19.0	19.4	19.2	19.8	20.6
DSN11-03174	20.4	20.4	19.7	20.1	20.3	20.4	21.5
DSN11-10057	19.4	19.5	19.3	19.1	18.9	19.6	20.1
DSN11-27183	20.2	19.7	19.8	20.2	19.7	20.1	21.5
K14-1094	19.6	19.0	19.0	19.8	19.1	19.7	20.6
K14-1153	19.3	19.3	18.4	18.5	19.9	19.1	20.3
K14-1358	17.6	18.0	17.2	17.7	17.0	17.7	18.3
LD13-8769	19.3	19.4	19.1	19.0	19.0	19.4	20.0
LG13-3993	20.0	20.1	19.7	19.8	19.6	20.3	20.6
LG14-7959	19.4	19.3	19.0	19.2	18.8	19.7	20.3
LG14-8024	19.1	18.6	18.7	19.4	18.6	19.0	20.6
S13-2743C	19.2	19.2	18.4	18.9	18.6	19.8	20.4
SA12-1451	18.9	19.3	17.2	18.8	18.7	19.3	19.9

PRELIMINARY TEST IV, 2017							
Ent.	Strain	Parentage	Seed Source	Gen. Comp.	Unique Traits	Germ. %	Sd. Wt. g/100
1	LD06-7620 (IV)	IA3023 x LD00- 3309	Diers	F5	SCN	94	14.7
2	LD00-2817P (L)	Ina x Dwight	Diers	F5	SCN	88	13.7
3	LD07-3395bf (SCN)	LD07-3395 Reselection	Diers	F5	SCN	88	15.4
4	CR144155	(4485 x 125-3-4) x OJ173-6-8	Rainey		3a, Sds, Pro	90	15.0
5	CR145524	LD04-13296 x U03-300134	Rainey		SCN x Yield	93	14.2
6	CR146116	LD06-7596 x LS05-3229	Rainey		SCN x SCN	86	15.6
7	CR147814	LG05-4229 x U03-300134	Rainey		ACC, Diversity	94	13.9
8	CR147839	LG05-4229 x U03-300134	Rainey		ACC, Diversity	92	13.9
9	CR147881	LG06-5920 x U03-100612	Rainey		ACC, Diversity	89	13.5
10	K15-1008	AR10-305003 x 435.TCS	Schapaugh	F5	SCN	82	16.3
11	K15-1039	AR10-305003 x 435.TCS	Schapaugh	F5	SCN	94	15.5
12	K15-1278	LD06-7620 x 435.TCS	Schapaugh	F5	SCN, STS	94	13.6
13	K15-1279	LD06-7620 x 435.TCS	Schapaugh	F5	SCN, STS	88	15.3
14	K15-1283	LD06-7620 x 435.TCS	Schapaugh	F5	SCN, STS	94	16.5
15	K15-1294	LD06-7620 x 435.TCS	Schapaugh	F5	SCN, STS	90	14.6
16	K15-1303	LD06-7620 x 435.TCS	Schapaugh	F5	SCN	88	16.4
17	K15-1307	LD06-7620 x 435.TCS	Schapaugh	F5	SCN, STS	88	15.1
18	K15-1310	LD06-7620 x 435.TCS	Schapaugh	F5	SCN, STS	84	15.7
19	LD14-2880	LD07-3395 x LD07-2192	Diers	F5	SCN	92	15.6
20	LD14-3698	LD07-4477 x LG06-5798	Diers	F5	SCN	96	16.6
21	LD14-6763	HI0800685 x LD09-30463	Diers	F5	SCN 2 G. soja QTL	96	15.5
22	LD14-6766	HI0800685 x LD09-30463	Diers	F5	SCN 2 G. soja QTL	96	15.3
23	LD14-6796	LD09-30523 x LS07-3131	Diers	F5	SCN 2 G. soja QTL	94	16.9
24	LG15-2049	LG04-5372 x LG07-6756	Nelson	F6		86	16.7
25	LG15-2224	LG06-2284 x LG07-8914	Nelson	F6		98	17.5
26	SA13-1464	K07-1633 x LD04-13265	Scaboo	F4		92	16.1
27	SA14-5754	LD07-3419 x LD04-13265	Scaboo	F4		95	16.6
28	SA14-5854	LD07-3419 x LD04-13265	Scaboo	F4		95	16.6

PRELIMINARY TEST IV, 2017

DESCRIPTIVE DATA

Strain	Descriptive Code
LD06-7620 (IV)	PLtBIYBI
LD00-2817P (L)	PGTIYBI
LD07-3395bf (SCN)	WGTIYBfI
CR144155	WTBSYBrI
CR145524	PTTSYBI
CR146116	PTBSYBI
CR147814	PTTSYLbI
CR147839	WTTSYLbrI
CR147881	PGTSYBI
K15-1008	WTBSYBI
K15-1039	PTBSYBI
K15-1278	PTBIYBI
K15-1279	PTBIYBI
K15-1283	PTBIYBI
K15-1294	PTBSYBI
K15-1303	PTBSYBI
K15-1307	PTBSYBI
K15-1310	PTBSYBI
LD14-2880	WLtBIYBrI
LD14-3698	PLtBSYBI
LD14-6763	PTBSYBI
LD14-6766	PLtBIYBI
LD14-6796	PGTSYDibI
LG15-2049	WTBIYBI
LG15-2224	WTBSYLbI
SA13-1464	PTBDYBI
SA14-5754	PTBSYLdibI
SA14-5854	PTBSYLdibI

PRELIMINARY TEST IV, 2017

REGIONAL SUMMARY

No. of Tests Strain	Yield 7 bu/a	Rank 7 No.	Maturity 7 Date	Lodging 7 Score	Plant Height 6 In.	Seed Size 7 g/100	Seed Quality 7 Score	Composition	
								Protein 4 %	Oil 4 %
LD06-7620 (IV)	67.8	9	10/5	1.2	34	15.3	1.6	34.5	18.9
LD00-2817P (L)	65.8	16	0.3	1.4	41	15.0	1.9	32.5	20.2
LD07-3395bf (SCN)	68.1	7	-3.9	1.1	32	17.0	1.9	31.7	20.5
CR144155	55.8	28	-11.8	1.1	32	17.3	2.0	33.1	19.6
CR145524	65.0	21	-10.9	1.3	34	16.1	1.9	32.7	19.3
CR146116	61.1	26	-9.8	1.1	34	16.9	1.7	34.7	18.9
CR147814	62.5	24	-10.8	1.1	34	15.3	1.7	33.5	19.9
CR147839	58.9	27	-11.4	1.3	35	15.2	1.9	32.2	20.3
CR147881	62.0	25	-10.4	1.3	35	14.6	2.1	34.5	19.2
K15-1008	68.6	4	0.2	1.2	36	18.2	1.9	36.1	18.7
K15-1039	66.8	13	-1.1	1.1	31	16.2	1.8	35.6	18.9
K15-1278	65.5	19	-2.6	1.0	35	14.4	2.1	34.9	18.4
K15-1279	64.4	22	-1.2	1.1	35	16.9	2.1	35.0	18.9
K15-1283	69.8	2	1.1	1.2	36	17.3	1.9	35.6	18.5
K15-1294	67.2	11	-1.4	1.2	36	15.3	1.8	35.3	18.9
K15-1303	68.3	6	1.6	1.5	36	17.0	2.0	35.0	18.5
K15-1307	68.0	8	-1.1	1.6	37	15.6	1.9	34.9	19.0
K15-1310	70.1	1	1.4	1.2	36	16.7	1.6	35.2	18.8
LD14-2880	68.6	4	-3.0	1.2	40	17.1	2.1	34.0	18.4
LD14-3698	65.6	18	-5.0	1.1	36	17.8	2.0	34.7	19.6
LD14-6763	62.8	23	-2.2	1.0	32	16.2	2.1	35.2	18.8
LD14-6766	68.9	3	-2.1	1.2	35	16.2	1.9	33.6	19.8
LD14-6796	67.1	12	-3.2	1.1	35	16.3	1.9	34.0	19.1
LG15-2049	65.7	17	1.1	1.4	41	16.6	1.9	33.1	19.2
LG15-2224	65.9	15	-2.2	1.9	46	16.7	1.9	34.5	19.2
SA13-1464	65.4	20	-3.6	1.0	34	16.8	1.8	34.7	19.6
SA14-5754	67.8	9	-0.4	1.1	37	16.2	2.1	33.3	19.5
SA14-5854	66.8	13	-0.8	1.3	37	16.2	2.1	32.3	19.8
Mean	65.7		31.5	1.2	35.8	16.3	1.9		
C.V. (%)	8.1		6.3	25.8	5.8	4.8	18.0		
L.S.D. (5%)	3.3		1.2	0.2	1.4	0.7	0.3		

127.9 Days After Planting

PRELIMINARY TEST IV, 2017

YIELD (bu/a)

Strain	Mean 7 Tests	Urbana IL	Butlerville IN	West Lafayette IN
LD06-7620 (IV)	67.8	68.9	62.2	70.9
LD00-2817P (L)	65.8	61.3	66.4	66.2
LD07-3395bf (SCN)	68.1	71.1	63.7	71.3
CR144155	55.8	60.1	51.7	50.1
CR145524	65.0	61.9	53.9	67.0
CR146116	61.1	58.4	52.8	64.1
CR147814	62.5	55.6	54.5	67.8
CR147839	58.9	59.1	43.4	59.1
CR147881	62.0	54.8	52.2	63.0
K15-1008	68.6	59.7	59.2	71.2
K15-1039	66.8	65.5	54.2	67.1
K15-1278	65.5	60.5	59.0	70.4
K15-1279	64.4	52.2	61.7	69.9
K15-1283	69.8	66.0	67.4	74.6
K15-1294	67.2	60.8	63.4	71.3
K15-1303	68.3	62.0	64.0	66.1
K15-1307	68.0	65.2	61.9	70.0
K15-1310	70.1	62.3	68.5	74.8
LD14-2880	68.6	69.3	67.4	74.8
LD14-3698	65.6	68.4	56.3	75.1
LD14-6763	62.8	58.4	58.8	74.0
LD14-6766	68.9	61.2	69.4	79.8
LD14-6796	67.1	59.8	62.9	74.1
LG15-2049	65.7	61.5	70.6	70.0
LG15-2224	65.9	64.9	60.9	63.0
SA13-1464	65.4	57.8	58.1	67.0
SA14-5754	67.8	64.9	65.8	66.7
SA14-5854	66.8	58.2	63.4	65.6
Location Mean		61.8	60.5	68.8
C.V. (%)		8.2	4.4	3.2
L.S.D. (5%)		10.5	4.5	3.8
Row Sp. (In.)		30	30	30
Rows/Plot		4	4	4
Reps		2	2	2

PRELIMINARY TEST IV, 2017

YIELD (bu/a)

Strain	Manhattan KS	Onaga KS	Ottawa KS	Albany MO
LD06-7620 (IV)	73.6	73.9	56.7	68.5
LD00-2817P (L)	86.0	64.1	58.3	58.1
LD07-3395bf (SCN)	71.6	70.5	62.9	65.4
CR144155	67.6	65.1	40.2	55.8
CR145524	70.7	67.0	67.5	66.7
CR146116	75.4	66.8	56.7	53.5
CR147814	69.2	71.1	54.7	64.5
CR147839	65.7	70.6	57.4	57.2
CR147881	69.3	72.9	59.1	62.7
K15-1008	88.2	69.1	65.6	67.4
K15-1039	85.1	67.2	58.4	70.3
K15-1278	80.0	69.0	57.2	62.4
K15-1279	76.8	65.9	61.2	63.2
K15-1283	86.0	66.2	61.6	66.9
K15-1294	78.5	71.0	60.2	65.3
K15-1303	88.6	71.4	59.6	66.5
K15-1307	79.9	65.9	62.1	71.1
K15-1310	84.7	67.3	64.2	69.1
LD14-2880	76.6	71.5	60.0	60.6
LD14-3698	80.2	62.9	53.8	62.7
LD14-6763	63.7	71.0	47.6	66.0
LD14-6766	72.6	68.6	58.5	72.4
LD14-6796	80.3	63.9	61.8	66.8
LG15-2049	58.4	73.3	60.5	65.6
LG15-2224	79.7	71.3	56.8	65.1
SA13-1464	81.1	70.0	61.3	62.7
SA14-5754	83.2	74.8	58.6	60.3
SA14-5854	83.5	66.3	65.4	65.0
Location Mean	77.0	68.9	58.9	64.4
C.V. (%)	4.1	3.5	4.4	7.9
L.S.D. (5%)	6.5	5.0	5.3	10.5
Row Sp. (In.)	30	30	30	30
Rows/Plot	4	4	4	4
Reps	2	2	2	2

PRELIMINARY TEST IV, 2017

YIELD RANK

Strain	Yield Rank	Urbana IL	Butlerville IN	West Lafayette IN
LD06-7620 (IV)	9	3	13	11
LD00-2817P (L)	16	14	6	21
LD07-3395bf (SCN)	7	1	9	8
CR144155	28	18	27	28
CR145524	21	12	24	18
CR146116	26	22	25	24
CR147814	24	26	22	16
CR147839	27	21	28	27
CR147881	25	27	26	25
K15-1008	4	20	17	10
K15-1039	13	6	23	17
K15-1278	19	17	18	12
K15-1279	22	28	15	15
K15-1283	2	5	4	5
K15-1294	11	16	10	8
K15-1303	6	11	8	22
K15-1307	8	7	14	13
K15-1310	1	10	3	3
LD14-2880	4	2	4	3
LD14-3698	18	4	21	2
LD14-6763	23	22	19	7
LD14-6766	3	15	2	1
LD14-6796	12	19	12	6
LG15-2049	17	13	1	13
LG15-2224	15	8	16	25
SA13-1464	20	25	20	18
SA14-5754	9	8	7	20
SA14-5854	13	24	10	23

PRELIMINARY TEST IV, 2017

YIELD RANK

Strain	Manhattan KS	Onaga KS	Ottawa KS	Albany MO
LD06-7620 (IV)	19	2	23	5
LD00-2817P (L)	3	26	19	25
LD07-3395bf (SCN)	21	12	5	13
CR144155	25	25	28	27
CR145524	22	19	1	9
CR146116	18	20	23	28
CR147814	24	8	23	17
CR147839	26	11	20	26
CR147881	23	4	15	19
K15-1008	2	14	2	6
K15-1039	5	18	18	3
K15-1278	12	15	21	22
K15-1279	16	23	10	18
K15-1283	3	22	8	7
K15-1294	15	9	12	14
K15-1303	1	6	14	10
K15-1307	13	23	6	2
K15-1310	6	17	4	4
LD14-2880	17	5	13	23
LD14-3698	11	28	26	20
LD14-6763	27	9	27	11
LD14-6766	20	16	17	1
LD14-6796	10	27	7	8
LG15-2049	28	3	11	12
LG15-2224	14	7	22	15
SA13-1464	9	13	9	21
SA14-5754	8	1	16	24
SA14-5854	7	21	3	16

PRELIMINARY TEST IV, 2017

MATURITY (date)

Strain	Mean 7 Tests	Urbana IL	Butlerville IN	West Lafayette IN
LD06-7620 (IV)	10/5	9/28	10/10	10/16
LD00-2817P (L)	0	0	0	0
LD07-3395bf (SCN)	-4	-4	-5	-1
CR144155	-12	-13	-13	-14
CR145524	-11	-11	-12	-15
CR146116	-10	-10	-12	-14
CR147814	-11	-12	-13	-14
CR147839	-11	-10	-13	-14
CR147881	-10	-9	-13	-14
K15-1008	0	3	-7	-1
K15-1039	-1	0	-5	-1
K15-1278	-3	-1	-7	-1
K15-1279	-1	-1	-1	-2
K15-1283	1	3	-3	-1
K15-1294	-1	0	-6	-3
K15-1303	2	3	0	-2
K15-1307	-1	1	-4	-2
K15-1310	1	3	-2	-1
LD14-2880	-3	-1	-10	-1
LD14-3698	-5	-3	-10	-5
LD14-6763	-2	0	-3	-2
LD14-6766	-2	-1	-3	-3
LD14-6796	-3	-2	-6	0
LG15-2049	1	2	1	0
LG15-2224	-2	1	-8	-3
SA13-1464	-4	-3	-8	-6
SA14-5754	-0	-1	-1	-5
SA14-5854	-1	0	-2	-5
Date Planted	5/30	5/16	6/6	6/2
Days to Mature	128	135	126	136

PRELIMINARY TEST IV, 2017

MATURITY (date)

Strain	Manhattan KS	Onaga KS	Ottawa KS	Albany MO
LD06-7620 (IV)	10/1	9/27	10/8	10/5
LD00-2817P (L)	1	1	-1	1
LD07-3395bf (SCN)	-5	-5	-4	-4
CR144155	-13	-10	-11	-9
CR145524	-13	-9	-9	-9
CR146116	-7	-9	-10	-7
CR147814	-11	-10	-9	-8
CR147839	-13	-10	-12	-9
CR147881	-11	-9	-11	-8
K15-1008	2	2	2	2
K15-1039	2	0	-4	1
K15-1278	-1	-3	-4	-2
K15-1279	-2	-3	-1	1
K15-1283	2	2	3	3
K15-1294	-1	-1	1	0
K15-1303	3	2	4	2
K15-1307	-1	0	0	-2
K15-1310	2	2	4	3
LD14-2880	-3	-3	-2	-2
LD14-3698	-3	-3	-7	-5
LD14-6763	-4	-4	-4	1
LD14-6766	-4	-5	-1	1
LD14-6796	-3	-4	-6	-3
LG15-2049	-2	4	2	1
LG15-2224	-2	0	-2	-2
SA13-1464	-2	-4	-2	-2
SA14-5754	2	2	3	-3
SA14-5854	1	1	2	-2
Date Planted	5/25	5/15	6/21	6/2
Days to Mature	129	135	109	125

PRELIMINARY TEST IV, 2017

LODGING (score)

Strain	Mean 7 Tests	Urbana IL	Butlerville IN	West Lafayette IN
LD06-7620 (IV)	1.2	1.0	1.5	1.0
LD00-2817P (L)	1.4	1.0	2.0	2.0
LD07-3395bf (SCN)	1.1	1.0	1.0	1.0
CR144155	1.1	1.0	1.0	1.0
CR145524	1.3	1.0	1.0	1.5
CR146116	1.1	1.0	1.0	1.0
CR147814	1.1	1.0	1.0	1.0
CR147839	1.3	1.0	1.0	1.8
CR147881	1.3	1.0	1.0	1.8
K15-1008	1.2	1.0	1.5	1.5
K15-1039	1.1	1.0	1.0	1.0
K15-1278	1.0	1.0	1.0	1.0
K15-1279	1.1	1.0	1.0	1.5
K15-1283	1.2	1.0	1.0	1.3
K15-1294	1.2	1.0	1.3	1.0
K15-1303	1.5	1.0	1.5	1.5
K15-1307	1.6	1.0	1.8	1.5
K15-1310	1.2	1.0	1.5	1.5
LD14-2880	1.2	1.0	1.3	1.0
LD14-3698	1.1	1.0	1.0	1.5
LD14-6763	1.0	1.0	1.0	1.0
LD14-6766	1.2	1.0	1.0	1.3
LD14-6796	1.1	1.0	1.0	1.5
LG15-2049	1.4	1.0	2.0	2.0
LG15-2224	1.9	1.0	1.3	2.0
SA13-1464	1.0	1.0	1.0	1.0
SA14-5754	1.1	1.0	1.0	1.0
SA14-5854	1.3	1.0	1.0	1.5

PRELIMINARY TEST IV, 2017

LODGING (score)

Strain	Manhattan KS	Onaga KS	Ottawa KS	Albany MO
LD06-7620 (IV)	1.0	1.5	1.0	1.3
LD00-2817P (L)	1.0	1.0	1.0	1.5
LD07-3395bf (SCN)	1.0	1.0	1.0	1.8
CR144155	1.0	1.0	1.0	1.5
CR145524	1.0	2.0	1.0	1.8
CR146116	1.0	1.0	1.0	1.5
CR147814	1.0	1.0	1.0	1.5
CR147839	1.0	1.5	1.0	1.8
CR147881	1.0	1.5	1.0	1.5
K15-1008	1.0	1.0	1.0	1.3
K15-1039	1.0	1.0	1.0	1.5
K15-1278	1.0	1.0	1.0	1.3
K15-1279	1.0	1.0	1.0	1.5
K15-1283	1.0	1.0	1.0	2.0
K15-1294	1.0	1.5	1.0	1.5
K15-1303	2.0	2.0	1.0	1.5
K15-1307	2.0	2.5	1.0	1.5
K15-1310	1.0	1.0	1.0	1.5
LD14-2880	1.0	1.5	1.0	1.5
LD14-3698	1.0	1.0	1.0	1.5
LD14-6763	1.0	1.0	1.0	1.3
LD14-6766	1.0	1.5	1.0	1.5
LD14-6796	1.0	1.0	1.0	1.3
LG15-2049	1.0	1.0	1.0	1.5
LG15-2224	2.5	2.5	1.0	3.0
SA13-1464	1.0	1.0	1.0	1.3
SA14-5754	1.0	1.5	1.0	1.5
SA14-5854	1.0	2.0	1.1	1.3

PRELIMINARY TEST IV, 2017

PLANT HEIGHT (inches)

Strain	Mean 6 Tests	Urbana IL	Butlerville IN	West Lafayette IN
LD06-7620 (IV)	34	35		32
LD00-2817P (L)	41	39		41
LD07-3395bf (SCN)	32	33		34
CR144155	32	35		35
CR145524	34	35		34
CR146116	34	35		35
CR147814	34	35		34
CR147839	35	36		35
CR147881	35	33		37
K15-1008	36	33		38
K15-1039	31	30		36
K15-1278	35	34		38
K15-1279	35	33		36
K15-1283	36	35		37
K15-1294	36	34		38
K15-1303	36	35		40
K15-1307	37	37		39
K15-1310	36	36		39
LD14-2880	40	42		42
LD14-3698	36	36		40
LD14-6763	32	30		34
LD14-6766	35	35		38
LD14-6796	35	39		38
LG15-2049	41	39		42
LG15-2224	46	46		46
SA13-1464	34	35		34
SA14-5754	37	37		34
SA14-5854	37	36		38

PRELIMINARY TEST IV, 2017

PLANT HEIGHT (inches)

Strain	Manhattan KS	Onaga KS	Ottawa KS	Albany MO
LD06-7620 (IV)	36	42	31	30
LD00-2817P (L)	44	46	38	36
LD07-3395bf (SCN)	32	37	29	31
CR144155	33	35	27	30
CR145524	32	41	30	33
CR146116	34	38	29	31
CR147814	34	39	28	35
CR147839	35	36	34	35
CR147881	37	40	29	35
K15-1008	38	40	32	35
K15-1039	34	35	27	28
K15-1278	38	39	30	34
K15-1279	37	40	30	37
K15-1283	36	40	30	36
K15-1294	39	41	31	35
K15-1303	35	43	31	36
K15-1307	39	43	32	34
K15-1310	38	42	30	35
LD14-2880	40	44	35	39
LD14-3698	37	40	30	32
LD14-6763	33	38	29	28
LD14-6766	35	41	29	31
LD14-6796	35	40	31	31
LG15-2049	43	47	37	40
LG15-2224	51	52	40	44
SA13-1464	35	40	30	31
SA14-5754	41	45	31	36
SA14-5854	41	45	31	35

PRELIMINARY TEST IV, 2017

SEED SIZE (g/100)

Strain	Mean 7 Tests	Urbana IL	Butlerville IN	West Lafayette IN
LD06-7620 (IV)	15.3	15.5	15.7	15.9
LD00-2817P (L)	15.0	14.9	15.3	17.5
LD07-3395bf (SCN)	17.0	16.4	17.6	18.3
CR144155	17.3	16.7	18.2	18.8
CR145524	16.1	14.9	15.4	18.1
CR146116	16.9	16.4	15.6	17.9
CR147814	15.3	13.7	15.0	17.0
CR147839	15.2	14.4	14.6	16.4
CR147881	14.6	13.7	14.5	15.6
K15-1008	18.2	19.0	18.4	19.5
K15-1039	16.2	16.3	16.4	17.4
K15-1278	14.4	14.4	15.4	15.6
K15-1279	16.9	16.1	17.9	17.9
K15-1283	17.3	17.4	17.0	19.0
K15-1294	15.3	15.5	16.1	15.7
K15-1303	17.0	16.9	17.4	17.9
K15-1307	15.6	15.3	17.0	16.8
K15-1310	16.7	17.0	16.7	16.9
LD14-2880	17.1	17.6	16.6	17.1
LD14-3698	17.8	18.1	18.7	19.5
LD14-6763	16.2	15.9	17.2	18.8
LD14-6766	16.2	15.7	17.0	17.7
LD14-6796	16.3	15.8	16.9	19.8
LG15-2049	16.6	17.0	18.0	19.1
LG15-2224	16.7	16.6	17.3	17.7
SA13-1464	16.8	15.9	17.2	18.5
SA14-5754	16.2	16.2	17.5	16.3
SA14-5854	16.2	15.9	17.2	16.4

PRELIMINARY TEST IV, 2017

SEED SIZE (g/100)

Strain	Manhattan KS	Onaga KS	Ottawa KS	Albany MO
LD06-7620 (IV)	15.4	15.1	13.1	16.6
LD00-2817P (L)	15.5	13.5	13.1	15.5
LD07-3395bf (SCN)	17.7	15.6	15.5	18.0
CR144155	17.2	16.5	15.9	17.9
CR145524	17.7	15.5	13.9	16.9
CR146116	18.3	16.3	14.8	18.7
CR147814	15.6	14.9	15.3	15.7
CR147839	15.9	15.1	13.9	16.4
CR147881	15.1	14.5	13.1	15.5
K15-1008	19.3	16.5	16.0	19.0
K15-1039	17.2	14.3	14.2	17.6
K15-1278	15.2	13.0	12.6	14.5
K15-1279	18.6	15.1	14.3	18.3
K15-1283	19.3	14.8	16.6	16.7
K15-1294	16.1	14.3	14.0	15.6
K15-1303	17.7	16.3	15.3	17.8
K15-1307	16.3	14.3	13.8	15.7
K15-1310	18.6	15.0	14.9	17.5
LD14-2880	17.5	16.0	16.3	18.7
LD14-3698	18.6	16.9	14.8	18.2
LD14-6763	15.7	14.0	15.0	17.0
LD14-6766	16.1	13.8	14.7	18.5
LD14-6796	18.6	14.0	14.2	15.0
LG15-2049	15.8	15.3	14.5	16.2
LG15-2224	18.8	15.5	15.4	15.6
SA13-1464	17.9	15.2	15.1	17.8
SA14-5754	17.3	15.0	15.7	15.4
SA14-5854	17.9	14.5	15.5	16.1

PRELIMINARY TEST IV, 2017

SEED QUALITY (score)

Strain	Mean 7 Tests	Urbana IL	Butlerville IN	West Lafayette IN
LD06-7620 (IV)	1.6	1.0	1.0	1.0
LD00-2817P (L)	1.9	1.0	1.0	1.0
LD07-3395bf (SCN)	1.9	2.0	1.0	1.0
CR144155	2.0	2.0	1.0	1.0
CR145524	1.9	2.0	1.0	1.0
CR146116	1.7	2.0	1.0	1.0
CR147814	1.7	1.0	1.0	1.0
CR147839	1.9	2.0	1.0	1.0
CR147881	2.1	2.0	1.0	1.0
K15-1008	1.9	2.0	1.0	1.0
K15-1039	1.8	1.0	1.0	1.0
K15-1278	2.1	2.0	1.0	1.0
K15-1279	2.1	2.0	1.0	1.0
K15-1283	1.9	2.0	1.0	1.0
K15-1294	1.8	1.0	1.0	1.0
K15-1303	2.0	2.0	1.0	1.5
K15-1307	1.9	1.0	1.0	1.0
K15-1310	1.6	2.0	1.0	1.0
LD14-2880	2.1	2.0	1.0	1.0
LD14-3698	2.0	2.0	1.0	1.0
LD14-6763	2.1	2.0	1.0	1.0
LD14-6766	1.9	1.0	1.0	1.0
LD14-6796	1.9	2.0	1.0	1.0
LG15-2049	1.9	2.0	1.0	1.0
LG15-2224	1.9	2.0	1.0	1.0
SA13-1464	1.8	1.0	1.0	1.0
SA14-5754	2.1	2.0	1.0	1.0
SA14-5854	2.1	2.0	1.0	1.0

PRELIMINARY TEST IV, 2017**SEED QUALITY (score)**

Strain	Manhattan KS	Onaga KS	Ottawa KS	Albany MO
LD06-7620 (IV)	3.0	2.0	2.0	1.5
LD00-2817P (L)	3.0	3.0	3.0	1.5
LD07-3395bf (SCN)	3.0	3.0	2.0	1.5
CR144155	3.0	3.0	3.0	1.0
CR145524	3.0	3.0	2.0	1.5
CR146116	2.0	3.0	2.0	1.0
CR147814	2.0	3.0	3.0	1.0
CR147839	3.0	2.0	3.0	1.5
CR147881	3.0	3.0	3.0	2.0
K15-1008	3.0	3.0	2.0	1.5
K15-1039	3.0	2.0	3.0	1.5
K15-1278	3.0	3.0	3.0	1.5
K15-1279	3.0	3.0	3.0	2.0
K15-1283	3.0	3.0	2.0	1.5
K15-1294	2.0	3.0	3.0	1.5
K15-1303	3.0	2.0	3.0	1.5
K15-1307	3.0	3.0	3.0	1.5
K15-1310	2.0	2.0	2.0	1.5
LD14-2880	3.0	3.0	3.0	1.5
LD14-3698	2.0	3.0	3.0	2.0
LD14-6763	3.0	3.0	3.0	1.5
LD14-6766	3.0	3.0	3.0	1.5
LD14-6796	3.0	3.0	2.0	1.5
LG15-2049	3.0	3.0	2.0	1.5
LG15-2224	2.0	3.0	2.0	2.0
SA13-1464	3.0	3.0	2.0	1.5
SA14-5754	3.0	3.0	3.0	1.5
SA14-5854	3.0	3.0	3.0	1.5

PRELIMINARY TEST IV, 2017

PROTEIN (%)

Strain	Mean 4 Tests	Urbana IL	Butler- ville IN	West Laf IN	Albany MO
LD06-7620 (IV)	34.5	35.0	34.5	34.2	34.5
LD00-2817P (L)	32.5	32.1	33.1	32.1	32.5
LD07-3395bf (SCN)	31.7	31.6	32.1	31.2	31.9
CR144155	33.1	32.3	34.2	32.7	33.2
CR145524	32.7	34.3	33.9	30.4	32.3
CR146116	34.7	33.9	35.2	34.5	35.4
CR147814	33.5	32.7	33.8	33.6	33.8
CR147839	32.2	32.7	33.0	31.1	31.8
CR147881	34.5	34.3	35.7	33.7	34.2
K15-1008	36.1	36.7	36.7	37.1	33.8
K15-1039	35.6	35.8	36.5	35.5	34.6
K15-1278	34.9	34.8	35.2	34.1	35.4
K15-1279	35.0	35.2	35.0	35.4	34.6
K15-1283	35.6	35.9	35.1	35.5	35.7
K15-1294	35.3	36.0	34.6	34.4	36.1
K15-1303	35.0	35.2	34.1	35.4	35.2
K15-1307	34.9	34.8	35.3	34.1	35.4
K15-1310	35.2	36.2	35.2	34.9	34.7
LD14-2880	34.0	35.7	33.9	33.5	33.0
LD14-3698	34.7	35.3	34.5	34.4	34.5
LD14-6763	35.2	35.3	35.3	34.7	35.5
LD14-6766	33.6	33.0	33.4	33.7	34.4
LD14-6796	34.0	33.7	34.3	33.4	34.7
LG15-2049	33.1	32.8	33.4	33.4	32.7
LG15-2224	34.5	34.3	35.0	33.5	35.0
SA13-1464	34.7	34.7	35.4	34.1	34.7
SA14-5754	33.3	32.7	33.7	33.1	33.5
SA14-5854	32.3	32.8	32.5	31.7	32.1

PRELIMINARY TEST IV, 2017

OIL (%)

Strain	Mean 4 Tests	Urbana IL	Butler- ville IN	West Laf IN	Albany MO
LD06-7620 (IV)	18.9	18.8	19.0	18.6	19.2
LD00-2817P (L)	20.2	20.2	20.0	19.9	20.6
LD07-3395bf (SCN)	20.5	20.4	20.7	20.3	20.9
CR144155	19.6	20.1	19.2	19.6	19.8
CR145524	19.3	18.8	19.2	19.5	19.6
CR146116	18.9	19.1	19.0	18.7	18.9
CR147814	19.9	20.1	20.0	19.2	20.1
CR147839	20.3	20.1	20.1	20.2	20.7
CR147881	19.2	19.1	18.6	19.2	19.7
K15-1008	18.7	18.5	18.6	17.8	20.1
K15-1039	18.9	18.9	18.5	18.6	19.5
K15-1278	18.4	18.5	18.2	18.2	18.7
K15-1279	18.9	19.0	19.1	18.2	19.3
K15-1283	18.5	18.3	19.1	18.2	18.4
K15-1294	18.9	18.8	19.2	18.5	18.9
K15-1303	18.5	18.5	19.2	17.8	18.5
K15-1307	19.0	19.3	19.0	18.6	19.1
K15-1310	18.8	18.3	19.2	18.5	19.0
LD14-2880	18.4	17.9	18.7	18.1	18.9
LD14-3698	19.6	19.5	19.8	19.1	19.9
LD14-6763	18.8	18.5	19.1	18.6	19.0
LD14-6766	19.8	20.0	20.3	19.5	19.5
LD14-6796	19.1	19.1	19.4	18.9	19.1
LG15-2049	19.2	19.1	19.5	18.7	19.7
LG15-2224	19.2	19.3	19.2	19.3	19.2
SA13-1464	19.6	19.5	19.6	19.6	19.8
SA14-5754	19.5	19.5	19.7	18.8	19.9
SA14-5854	19.8	19.6	19.7	19.5	20.5

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UNIFORM TEST 00 Roundup-Ready, 2017

Ent.	Strain	Parentage	Seed Source	Previous Testing	Gen. Comp.	Unique Traits	Germ. %	Sd. Wt. g/100
1	MN0071 (00)	Harmony x OT92-8	Lorenz	17	F5	Rps1	92	13.4
2	MN0095 (0)	M92-270029 x M93-313185	Lorenz	9	F5	Rps1	95	13.2
3	AG00133		Monsanto	2			80	15.5
4	AG00632 (00)		Monsanto	2		SCN	90	16.7
5	AG00932		Monsanto	2			80	15.8
6	ND12-21598	OAC07-26C x RG607RR	Helms	2	F3	RR1	98	18.7
7	ND12-24081	RG200RR x ND07-18569	Helms	2	F3	RR1	92	17.1
8	ND14-23953	ND07-4635 x RG7008RR	Helms	Initial	F3		98	15.4
9	ND14-5732	RG200RR x ND08-7287	Helms	Initial	F3		99	16.5
10	ND14-5881	RG200RR x Cavalier	Helms	Initial	F3		98	15.5
11	ND14-5895	RG200RR x Cavalier	Helms	Initial	F3		99	15.6
12	ND14-6120	Duel x RG607RR	Helms	Initial	F3		97	17.1
13	ND14-6963	ND03-7566 x RG200RR	Helms	Initial	F3		91	15.5
14	ND14-7610	Ashtabula x [Ashtabula x (RG7008RR x Sheyenne)-1]	Helms	Initial	F3		96	18.2
15	ND14-8101	ND03-7566 x [Sheyenne x RG607RR-1]	Helms	Initial	F3		93	15.1
16	ND14-8129	ND07-4027 x [Ashtabula x (RG7008RR x Sheyenne-1)]	Helms	Initial	F3		98	13.7

UNIFORM TEST 00 ROUNDUP READY, 2017

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	IDC
		Score
		Danvers
MN0071 (00)	PTBIYBrI	2.0
MN0095 (0)	PGTDYDibI	2.0
AG00133	PTBDYBI	2.0
AG00632 (00)	PTBSYBI	1.3
AG00932	PTBDYBI	1.8
ND12-21598	WTBSYBI	4.0
ND12-24081	PTBSYBI	1.5
ND14-23953	WTBSYLbI	2.3
ND14-5732	PTBSYYI	2.0
ND14-5881	PTBSYGI	2.3
ND14-5895	PTBSYGI	2.0
ND14-6120	PGBIYDbfI	3.0
ND14-6963	WTBDYYI	2.0
ND14-7610	PGTSYDbfI	1.0
ND14-8101	PTBSYYI	2.8
ND14-8129	PGTSYBf+BI	3.3

UNIFORM TEST 00 ROUNDUP READY, 2017

REGIONAL SUMMARY

No. of Tests Strain	Yield 2 bu/a	Rank 2 No.	Maturity 3 Date	Lodging 3 Score	Plant Height 2 In	Seed Size 4 g/100	Seed Quality 3 Score	Composition	
								Protein 3 %	Oil 3 %
MN0071 (00)	36.9	14	9/8	1.0	27	14.7	1.0	34.4	18.8
MN0095 (0)	56.6	4	9.7	1.0	31	12.1	1.0	34.3	18.3
AG00133	33.1	16	-1.1	1.0	30	16.9	1.7	34.8	18.2
AG00632 (00)	50.1	6	0.7	1.0	37	18.3	1.0	35.2	17.6
AG00932	41.4	11	15.9	1.0	43	15.4	1.0	34.6	17.4
ND12-21598	51.6	5	5.2	1.0	39	16.5	1.0	36.1	18.4
ND12-24081	39.2	12	0.7	1.0	31	14.4	1.3	35.1	18.0
ND14-23953	36.8	15	1.1	1.0	34	16.1	2.0	34.8	18.6
ND14-5732	44.5	9	3.6	1.0	33	15.2	1.3	35.1	17.9
ND14-5881	37.5	13	-0.3	1.0	31	14.8	1.0	35.6	17.8
ND14-5895	43.0	10	0.3	1.0	32	14.7	1.0	35.6	17.6
ND14-6120	63.3	1	18.0	1.0	48	14.1	1.3	34.8	18.4
ND14-6963	45.6	8	2.0	1.0	33	14.9	1.0	34.5	18.5
ND14-7610	59.5	2	8.8	1.0	42	14.7	1.3	32.4	18.6
ND14-8101	49.5	7	5.2	1.0	34	13.5	1.3	34.3	18.2
ND14-8129	59.3	3	6.3	1.0	38	14.4	1.3	34.1	18.5
Mean	43.0		8.7	1.0	27.5	17.1	1.3		
C.V. (%)	9.1		18.9	0.0	8.8	5.4	24.3		
L.S.D. (5%)	5.4		2.3	0.0	3.3	0.8	0.3		

121.7 Days After Planting

UNIFORM TEST 00 ROUNDUP READY, 2017

2016-2017 2-YEAR MEAN

No. of Tests Strain	Yield	Rank	Maturity	Lodging	Plant Height	Seed Size	Seed Quality	Composition	
	6 bu/a	6 No.	7 Date	6 Score	5 In.	7 g/100	6 Score	Protein 6 %	Oil 6 %
AG00632 (00)	54.2	2	9/9	1.0	34	18.4	1.6	34.9	17.9
AG00133	41.9	5	-2.7	1.0	28	17.8	1.8	34.6	18.3
AG00932	50.6	3	11.4	1.0	38	15.6	1.3	34.2	17.7
ND12-21598	58.7	1	4.8	1.1	35	17.4	1.3	36.2	18.4
ND12-24081	48.0	4	-0.3	1.0	30	14.5	1.5	34.9	18.2

120.0 Days After Planting

2015-2017 3-YEAR MEAN

No. of Tests Strain	9	9	11	9	7	10	9	9	9
AG00632 (00)	55.8	2	9/8	1.0	31	18.1	1.9	34.4	18.5
AG00133	46.8	5	-3.6	1.0	26	17.9	1.8	34.5	18.7
AG00932	54.7	3	8.5	1.0	34	15.3	1.6	33.9	18.2
ND12-21598	61.1	1	5.2	1.1	32	17.0	1.7	36.1	18.8
ND12-24081	51.4	4	-0.2	1.0	28	14.2	1.6	34.3	18.8

120.4 Days After Planting

UNIFORM TEST 00 ROUNDUP READY, 2017

YIELD (bu/a)

Strain	Mean 2 Tests	Roseau* MN	Thief River* Falls MN	Cassel- ton ND	La Pocatiere QUE
MN0071 (00)	36.9	40.8	26.1	36.9	
MN0095 (0)	56.6	52.8	26.9	56.6	
AG00133	33.1	25.4	13.8	31.8	34.5
AG00632 (00)	50.1	48.9	24.6	48.1	52.1
AG00932	41.4	11.3	19.1	35.0	47.8
ND12-21598	51.6	52.8	29.5	46.1	57.1
ND12-24081	39.2	55.5	17.8	34.5	43.9
ND14-23953	36.8	43.5	25.4	32.5	41.2
ND14-5732	44.5	58.8	30.9	44.3	44.6
ND14-5881	37.5	36.1	27.1	38.0	37.1
ND14-5895	43.0	46.3	27.5	44.7	41.3
ND14-6120	63.3	47.9	29.3	53.7	73.0
ND14-6963	45.6	44.3	33.4	40.1	51.2
ND14-7610	59.5	48.1	30.1	48.4	70.7
ND14-8101	49.5	49.8	33.6	43.5	55.6
ND14-8129	59.3	45.8	32.3	54.6	64.0
Location Mean		44.2	26.7	43.1	51.0
C.V. (%)		20.0	24.6	9.1	6.5
L.S.D. (5%)		14.7	11.0	6.2	5.2
Row sp. (In.)		6	10	30	7
Rows/Plot		10	8	4	4
Reps		3	3	3	3

*Data not included in the mean.

UNIFORM TEST 00 ROUNDUP READY, 2017

YIELD RANK

Strain	Yield Rank	Roseau MN	Thief River Falls MN	Cassel-ton ND	La Pocatiere QUE
MN0071 (00)	14	13	11	12	
MN0095 (0)	4	4	10	1	
AG00133	16	15	16	16	14
AG00632 (00)	6	6	13	5	6
AG00932	11	16	14	13	8
ND12-21598	5	3	6	6	4
ND12-24081	12	2	15	14	10
ND14-23953	15	12	12	15	12
ND14-5732	9	1	4	8	9
ND14-5881	13	14	9	11	13
ND14-5895	10	9	8	7	11
ND14-6120	1	8	7	3	1
ND14-6963	8	11	2	10	7
ND14-7610	2	7	5	4	2
ND14-8101	7	5	1	9	5
ND14-8129	3	10	3	2	3

UNIFORM TEST 00 ROUNDUP READY, 2017

MATURITY (date)

Strain	Mean 3 Tests	Roseau MN	Thief River Falls MN	Cassel-ton ND	La Pocatiere QUE
MN0071 (00)	9/8	9/13	9/8	9/4	
MN0095 (0)	10	10	10	9	
AG00133	-1	-2	0	-2	
AG00632 (00)	1	-3	-0	5	
AG00932	16		20	12	
ND12-21598	5	6	4	6	
ND12-24081	1	2	-0	0	
ND14-23953	1	4	0	-1	
ND14-5732	4	5	2	3	
ND14-5881	-0	0	0	-1	
ND14-5895	0	1	-1	1	
ND14-6120	18	24	16	14	
ND14-6963	2	3	2	1	
ND14-7610	9	10	8	9	
ND14-8101	5	7	5	4	
ND14-8129	6	9	4	6	
Date Planted	5/9	5/12	5/12	5/5	
Days to Mature	121.7	124	119	122	

UNIFORM TEST 00 ROUNDUP READY, 2017

LODGING (score)

Strain	Mean 3 Tests	Roseau MN	Thief River Falls MN	Cassel- ton ND	La Pocatiere QUE
MN0071 (00)	1.0	1.0	1.0	1.0	
MN0095 (0)	1.0	1.0	1.0	1.0	
AG00133	1.0	1.0	1.0	1.0	
AG00632 (00)	1.0	1.0	1.0	1.0	
AG00932	1.0	1.0	1.0	1.0	
ND12-21598	1.0	1.0	1.0	1.0	
ND12-24081	1.0	1.0	1.0	1.0	
ND14-23953	1.0	1.0	1.0	1.0	
ND14-5732	1.0	1.0	1.0	1.0	
ND14-5881	1.0	1.0	1.0	1.0	
ND14-5895	1.0	1.0	1.0	1.0	
ND14-6120	1.0	1.0	1.0	1.0	
ND14-6963	1.0	1.0	1.0	1.0	
ND14-7610	1.0	1.0	1.0	1.0	
ND14-8101	1.0	1.0	1.0	1.0	
ND14-8129	1.0	1.0	1.0	1.0	

UNIFORM TEST 00 ROUNDUP READY, 2017

PLANT HEIGHT (inches)

Strain	Mean 2 Tests	Roseau MN	Thief River Falls MN	Cassel- ton ND	La Pocatiere QUE
MN0071 (00)	27			27	
MN0095 (0)	31			31	
AG00133	30			25	34
AG00632 (00)	37			30	44
AG00932	43			28	58
ND12-21598	39			29	49
ND12-24081	31			22	40
ND14-23953	34			26	41
ND14-5732	33			28	38
ND14-5881	31			25	36
ND14-5895	32			25	38
ND14-6120	48			34	62
ND14-6963	33			25	41
ND14-7610	42			30	54
ND14-8101	34			26	41
ND14-8129	38			28	47

UNIFORM TEST 00 ROUNDUP READY, 2017

SEED SIZE (g/100)

Strain	Mean 4 Tests	Roseau MN	Thief River Falls MN	Cassel- ton ND	La Pocatiere QUE
MN0071 (00)	14.7	14.6	13.5	16.1	
MN0095 (0)	12.1	11.8	10.8	13.7	
AG00133	16.9	15.7	15.1	17.7	19.0
AG00632 (00)	18.3	15.7	15.7	21.1	20.7
AG00932	15.4	16.7	15.1	13.6	16.1
ND12-21598	16.5	15.4	14.4	18.1	18.2
ND12-24081	14.4	14.0	11.1	16.2	16.3
ND14-23953	16.1	15.2	13.4	18.6	17.0
ND14-5732	15.2	14.0	12.6	17.2	17.0
ND14-5881	14.8	12.9	12.3	17.6	16.2
ND14-5895	14.7	13.2	12.1	17.5	16.1
ND14-6120	14.1	13.9	13.1	14.4	15.1
ND14-6963	14.9	13.4	12.7	17.4	16.2
ND14-7610	14.7	13.6	12.7	16.9	15.4
ND14-8101	13.5	13.2	11.6	14.4	14.6
ND14-8129	14.4	13.1	12.4	18.4	13.5

UNIFORM TEST 00 ROUNDUP READY, 2017

SEED QUALITY (score)

Strain	Mean 3 Tests	Roseau MN	Thief River Falls MN	Cassel- ton ND	La Pocatiere QUE
MN0071 (00)	1.0	1.0	1.0	1.0	
MN0095 (0)	1.0	1.0	1.0	1.0	
AG00133	1.7	1.0	2.0	2.0	
AG00632 (00)	1.0	1.0	1.0	1.0	
AG00932	1.0	1.0	1.0	1.0	
ND12-21598	1.0	1.0	1.0	1.0	
ND12-24081	1.3	1.0	2.0	1.0	
ND14-23953	2.0	1.0	1.0	4.0	
ND14-5732	1.3	1.0	1.0	2.0	
ND14-5881	1.0	1.0	1.0	1.0	
ND14-5895	1.0	1.0	1.0	1.0	
ND14-6120	1.3	1.0	1.0	2.0	
ND14-6963	1.0	1.0	1.0	1.0	
ND14-7610	1.3	1.0	1.0	2.0	
ND14-8101	1.3	2.0	1.0	1.0	
ND14-8129	1.3	1.0	1.0	2.0	

UNIFORM TEST 00 ROUNDUP READY, 2017

PROTEIN (%)

Strain	Mean 3 Tests	Roseau MN	Thief River Falls MN	Casselton ND
MN0071 (00)	34.4	35.4	33.9	33.8
MN0095 (0)	34.3	34.7	34.3	34.0
AG00133	34.8	34.7	33.8	35.8
AG00632 (00)	35.2	35.3	34.9	35.4
AG00932	34.6	35.5	33.9	34.3
ND12-21598	36.1	36.5	35.6	36.3
ND12-24081	35.1	35.4	34.8	35.3
ND14-23953	34.8	34.6	34.5	35.2
ND14-5732	35.1	35.9	33.5	35.8
ND14-5881	35.6	36.0	34.4	36.2
ND14-5895	35.6	36.0	33.9	36.8
ND14-6120	34.8	33.8	34.2	36.3
ND14-6963	34.5	34.5	33.6	35.5
ND14-7610	32.4	33.3	31.7	32.1
ND14-8101	34.3	35.2	33.8	33.8
ND14-8129	34.1	33.9	33.8	34.7

UNIFORM TEST 00, 2017

OIL (%)

Strain	Mean 3 Tests	Roseau MN	Thief River Falls MN	Casselton ND
MN0071 (00)	18.8	17.7	18.7	19.9
MN0095 (0)	18.3	17.8	17.9	19.1
AG00133	18.2	17.5	18.0	19.1
AG00632 (00)	17.6	16.9	17.3	18.6
AG00932	17.4	16.3	17.5	18.5
ND12-21598	18.4	17.7	18.3	19.3
ND12-24081	18.0	17.5	17.3	19.3
ND14-23953	18.6	17.5	18.2	20.2
ND14-5732	17.9	16.8	18.4	18.6
ND14-5881	17.8	16.6	18.1	18.8
ND14-5895	17.6	16.7	18.0	18.2
ND14-6120	18.4	18.1	18.7	18.3
ND14-6963	18.5	17.8	18.6	19.0
ND14-7610	18.6	18.0	18.5	19.3
ND14-8101	18.2	17.4	17.8	19.4
ND14-8129	18.5	18.1	18.3	19.1

UNIFORM TEST 0 Roundup-Ready, 2017

Ent.	Strain	Parentage	Seed Source	Previous Testing	Gen. Comp.	Unique Traits	Germ. %	Sd. Wt. g/100
1	Sheyenne (0)	Pioneer 9071 x A96-492041	Helms	10	F4	Rps1-c	97	12.2
2	MN0404CN (SCN)	MN0902CN x MN0304	Lorenz	Initial		SCN, Rpsk1, PLT	95	13.8
3	MN1410 (I)	Unknown	Lorenz	9	F5		99	16.2
4	AG0231 (E)		Monsanto	5			97	16.3
5	AG0532 (0)		Monsanto	5	F5		99	15.5
6	AG0832		Monsanto	6			95	16.1
7	AG1234		Monsanto	2			90	14.6
8	M09-878011	MN1410 x MN1410BC2R2F2-4	Lorenz	3	F5	RR2, Yield		
9	M10-214107	M03-917303 x MN0807SP	Lorenz	Initial	F5	QT	96	15.5
10	M11-305073	M02-356123 x SD07CV-935	Lorenz	Initial	F5	QT	96	16.4
11	M11-314031	MN1505SP x MN0804SP	Lorenz	Initial	F5	QT	94	19.0
12	ND14-6238	RG200RR x ND04-11421	Helms	Initial	F3		99	14.9
13	ND14-6283	ND05-17835 x [OAC6-20 x RG7008RR-1]	Helms	Initial	F3		97	18.9
14	ND14-6284	ND05-17835 x [OAC6-20 x RG7008RR-1]	Helms	Initial	F3		93	19.5
15	ND14-6288	ND05-17835 x [OAC6-20 x RG7008RR-1]	Helms	Initial	F3		99	17.4
16	ND14-7738	[RG405RR x Sheyenne-1] x [Ashtabula x RG607RR-1]	Helms	Initial	F3		99	18.0
17	ND14-8364	ND07-2330 x [P. 91M10 x RG7008RR-1]	Helms	Initial	F3		96	17.8
18	ND14-8628	ND07-4050 x [RG7008RR x Sheyenne-1]	Helms	Initial	F3		97	17.4
19	ND14-8899	ND07-4635 x [OAC06-20 x RG7008RR-1]	Helms	Initial	F3		98	17.4

UNIFORM TEST 0 ROUNDUP READY, 2017

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	IDC
		Score
		Danvers
Sheyenne (0)	PGTSYYI	2.3
MN0404CN (SCN)	PTBSYDbrI	2.0
MN1410 (I)	WGBSYDbfI	1.8
AG0231 (E)	PTBIYBI	2.0
AG0532 (0)	PTBIYBI	1.3
AG0832	PGTDYDbrI	2.5
AG1234	PTBDYBI	2.0
M09-878011	WTBDYDbf+BI	2.0
M10-214107	P+WGBSYGI	2.3
M11-305073	PTBSYBI	2.5
M11-314031	WTBSYYI	2.0
ND14-6238	PTBSYGI	2.3
ND14-6283	WGTSYYI	2.0
ND14-6284	WGTSYYI	1.0
ND14-6288	WT+GBSYY+GI	1.8
ND14-7738	PGBSYBrI	3.5
ND14-8364	PGTSYYI	2.3
ND14-8628	WGTIYYI	2.0
ND14-8899	P+WTBSYBI	2.3

UNIFORM TEST 0 ROUNDUP READY, 2017

REGIONAL SUMMARY

No. of Tests Strain	Yield 4 bu/a	Rank 4 No.	Maturity 4 Date	Lodging 3 Score	Plant Height 4 In.	Seed Size 4 g/100	Seed Quality 4 Score	Composition	
								Protein 4 %	Oil 4 %
Sheyenne (0)	56.0	1	9/23	1.0	32	14.4	1.3	33.4	18.2
MN0404CN (SCN)	47.3	12	-6.8	1.0	29	12.9	1.5	33.0	17.2
MN1410 (I)	54.5	4	6.1	1.0	34	14.4	1.5	33.5	19.3
AG0231 (E)	47.7	10	-5.1	1.0	29	16.4	1.3	34.1	17.8
AG0532 (0)	48.8	8	1.7	1.0	26	15.5	1.3	33.7	17.5
AG0832	41.3	18	7.3	1.0	31	16.3	2.3	34.4	18.5
AG1234	54.9	3	7.1	1.0	34	13.1	1.5	33.3	18.1
M09-878011	54.1	5	3.3	1.0	30	14.7	1.5	33.3	19.0
M10-214107	46.4	15	3.8	1.2	33	10.8	1.8	33.1	18.5
M11-305073	48.3	9	5.6	1.0	34	15.5	1.5	37.7	16.9
M11-314031	46.5	14	4.6	1.0	27	18.1	1.5	38.4	17.5
ND14-6238	41.1	19	-9.0	1.0	26	13.1	1.3	35.1	18.0
ND14-6283	50.9	6	1.7	1.0	28	15.2	1.3	34.1	17.9
ND14-6284	55.2	2	3.5	1.0	32	15.8	1.3	33.8	18.0
ND14-6288	49.6	7	-0.3	1.0	28	14.8	2.3	33.0	18.9
ND14-7738	47.5	11	-0.3	1.0	31	14.5	2.0	33.8	19.3
ND14-8364	45.9	16	-4.4	1.0	30	14.4	1.3	34.6	17.6
ND14-8628	45.6	17	-3.1	1.0	29	12.9	1.3	34.0	18.7
ND14-8899	47.2	13	-0.5	1.0	25	14.6	1.3	32.1	19.4
Mean	46.0		22.7	1.0	28.8	13.4	1.3		
C.V. (%)	14.2		13.4	10.2	12.3	3.5	34.0		
L.S.D. (5%)	5.1		2.4	0.1	2.8	0.8	0.7		

132.0 Days After Planting

UNIFORM TEST 0 ROUNDUP READY, 2017

2016-2017 2-YEAR MEAN

No. of Tests Strain	Yield	Rank	Maturity	Lodging	Plant Height	Seed Size	Seed Quality	Composition	
	8 bu/a	8 No.	8 Date	6 Score	7 In.	8 g/100	7 Score	8 Protein %	8 Oil %
AG0532 (O)	50.6	2	9/20	1.1	28	16.3	1.1	34.3	17.6
AG0231 (E)	48.0	4	-5.5	1.2	30	17.4	1.3	34.7	17.9
AG0832	48.2	3	5.8	1.3	33	17.3	1.7	34.9	18.4
AG1234	59.8	1	6.4	1.3	35	14.7	1.3	34.1	18.0
M09-878011	42.4	5	3.3	1.2	29	13.9	1.6	37.6	19.4

126.8 Days After Planting

2015-2017 3-YEAR MEAN

No. of Tests Strain	11	11	12	11	9	11	10	11	11
AG0532 (O)	47.0	2	9/20	1.0	28	16.4	1.3	35.1	18.1
AG0231 (E)	48.7	5	-5.8	1.2	30	17.5	1.4	34.9	18.4
AG0832	52.5	3	3.1	1.3	33	17.5	1.7	35.4	18.8
AG1234	59.4	1	3.6	1.4	35	14.9	1.4	34.7	18.4
M09-878011	48.0	4	1.6	1.4	31	15.0	1.7	35.6	18.7

125.6 Days After Planting

UNIFORM TEST 0 ROUNDUP READY, 2017

YIELD (bu/a)

Strain	Mean 4 Tests	Crookston MN	Shelly MN	Casselton ND	Saint Hyacinthe QUE
Sheyenne (O)	56.0	53.4	45.6	60.8	64.3
MN0404CN (SCN)	47.3	43.9	41.8	53.0	50.5
MN1410 (I)	54.5	39.7	41.7	65.3	71.5
AG0231 (E)	47.7	50.2	34.6	47.3	58.9
AG0532 (O)	48.8	55.5	30.9	51.0	57.7
AG0832	41.3	29.4	21.9	54.3	59.4
AG1234	54.9	45.6	42.0	68.5	63.5
M09-878011	54.1	43.4	44.3	66.7	62.1
M10-214107	46.4	41.9	32.7	57.9	53.3
M11-305073	48.3	39.7	32.5	61.3	59.7
M11-314031	46.5	36.0	33.2	60.8	55.8
ND14-6238	41.1	37.2	32.9	43.7	50.5
ND14-6283	50.9	51.2	40.4	58.8	53.0
ND14-6284	55.2	50.7	44.1	63.8	62.4
ND14-6288	49.6	43.2	38.6	58.5	58.2
ND14-7738	47.5	33.7	39.7	58.6	57.9
ND14-8364	45.9	45.1	32.8	56.4	49.4
ND14-8628	45.6	44.4	34.6	55.8	47.6
ND14-8899	47.2	37.9	39.9	57.0	54.2
Location Mean		43.3	37.1	57.9	57.4
C.V. (%)		13.7	9.8	9.5	4.8
L.S.D. (5%)		10.5	6.3	9.4	4.0
Row sp. (In.)		12	10	30	15
Rows/Plot		8	8	4	4
Reps		3	3	3	3

UNIFORM TEST 0 ROUNDUP READY, 2017

YIELD RANK

Strain	Yield Rank	Crookston MN	Shelly MN	Casselton ND	Saint Hyacinthe QUE
Sheyenne (0)	1	2	1	6	2
MN0404CN (SCN)	12	9	5	16	16
MN1410 (I)	4	14	6	3	1
AG0231 (E)	10	5	11	18	8
AG0532 (0)	8	1	18	17	11
AG0832	18	19	19	15	7
AG1234	3	6	4	1	3
M09-878011	5	10	2	2	5
M10-214107	15	12	16	11	14
M11-305073	9	13	17	5	6
M11-314031	14	17	13	6	12
ND14-6238	19	16	14	19	16
ND14-6283	6	3	7	8	15
ND14-6284	2	4	3	4	4
ND14-6288	7	11	10	10	9
ND14-7738	11	18	9	9	10
ND14-8364	16	7	15	13	18
ND14-8628	17	8	12	14	19
ND14-8899	13	15	8	12	13

UNIFORM TEST 0 ROUNDUP READY, 2017

MATURITY (date)

Strain	Mean 4 Tests	Crookston MN	Shelly MN	Casselton ND	Saint Hyacinthe QUE
Sheyenne (0)	9/23	9/23	9/27	9/19	9/24
MN0404CN (SCN)	-7	-8	-12	-1	-6
MN1410 (I)	6	7	2	10	5
AG0231 (E)	-5	-8	-5	-2	-5
AG0532 (0)	2	-5	-3	15	-1
AG0832	7		10	10	2
AG1234	7	10	5	10	3
M09-878011	3	5	0	7	1
M10-214107	4	8	0	6	1
M11-305073	6	12	2	7	1
M11-314031	5	9	3	6	1
ND14-6238	-9	-10	-12	-6	-8
ND14-6283	2	2	-1	5	1
ND14-6284	4	4	2	6	2
ND14-6288	-0	3	-4	2	-2
ND14-7738	-0	4	-1	0	-4
ND14-8364	-4	-8	-5	-1	-4
ND14-8628	-3	-7	-4	1	-2
ND14-8899	-1	5	-5	1	-3
Date Planted	5/14	5/12	5/7	5/5	6/2
Days to Mature	132	134	143	137	114

UNIFORM TEST 0 ROUNDUP READY, 2017

LODGING (score)

Strain	Mean 3 Tests	Crookston MN	Shelly MN	Casselton ND	Saint Hyacinthe QUE
Sheyenne (O)	1.0	1.0	1.0	1.0	
MN0404CN (SCN)	1.0	1.0	1.0	1.0	
MN1410 (I)	1.0	1.0	1.0	1.0	
AG0231 (E)	1.0	1.0	1.0	1.0	
AG0532 (O)	1.0	1.0	1.0	1.0	
AG0832	1.0	1.0	1.0	1.0	
AG1234	1.0	1.0	1.0	1.0	
M09-878011	1.0	1.0	1.0	1.0	
M10-214107	1.2	1.0	1.0	1.7	
M11-305073	1.0	1.0	1.0	1.0	
M11-314031	1.0	1.0	1.0	1.0	
ND14-6238	1.0	1.0	1.0	1.0	
ND14-6283	1.0	1.0	1.0	1.0	
ND14-6284	1.0	1.0	1.0	1.0	
ND14-6288	1.0	1.0	1.0	1.0	
ND14-7738	1.0	1.0	1.0	1.0	
ND14-8364	1.0	1.0	1.0	1.0	
ND14-8628	1.0	1.0	1.0	1.0	
ND14-8899	1.0	1.0	1.0	1.0	

UNIFORM TEST 0 ROUNDUP READY, 2017

PLANT HEIGHT (inches)

Strain	Mean 4 Tests	Crookston MN	Shelly MN	Casselton ND	Saint Hyacinthe QUE
Sheyenne (O)	32	32	28	35	32
MN0404CN (SCN)	29	24	27	35	31
MN1410 (I)	34	28	33	37	40
AG0231 (E)	29	29	24	31	33
AG0532 (O)	26	28	23	26	30
AG0832	31	26	27	35	35
AG1234	34	30	31	39	36
M09-878011	30	27	28	32	33
M10-214107	33	28	27	37	42
M11-305073	34	29	29	38	40
M11-314031	27	22	23	32	32
ND14-6238	26	25	23	27	28
ND14-6283	28	32	23	31	28
ND14-6284	32	35	26	34	32
ND14-6288	28	24	25	30	31
ND14-7738	31	27	28	36	34
ND14-8364	30	29	23	35	33
ND14-8628	29	30	23	28	36
ND14-8899	25	19	23	29	28

UNIFORM TEST 0 ROUNDUP READY, 2017

SEED SIZE (g/100)

Strain	Mean 4 Tests	Crookston MN	Shelly MN	Casselton ND	Saint Hyacinthe QUE
Sheyenne (0)	14.4	13.2	13.0	16.0	15.5
MN0404CN (SCN)	12.9	12.6	11.9	13.3	13.8
MN1410 (I)	14.4	12.6	13.5	15.0	16.5
AG0231 (E)	16.4	14.8	13.9	18.3	18.4
AG0532 (0)	15.5	14.4	15.3	16.2	15.9
AG0832	16.3	15.6	16.7	15.6	17.1
AG1234	13.1	11.7	12.8	13.2	14.6
M09-878011	14.7	12.8	14.1	16.2	15.8
M10-214107	10.8	9.5	10.2	11.8	11.8
M11-305073	15.5	14.4	14.1	15.1	18.2
M11-314031	18.1	16.3	16.3	19.8	20.0
ND14-6238	13.1	11.4	12.0	15.2	13.9
ND14-6283	15.2	14.0	13.8	17.2	15.7
ND14-6284	15.8	13.8	14.2	18.0	17.2
ND14-6288	14.8	13.1	13.2	16.3	16.6
ND14-7738	14.5	12.6	13.2	16.5	15.8
ND14-8364	14.4	13.0	13.4	15.7	15.4
ND14-8628	12.9	11.2	11.8	14.6	13.8
ND14-8899	14.6	14.1	13.5	15.2	15.4

UNIFORM TEST 0 ROUNDUP READY, 2017

SEED QUALITY (score)

Strain	Mean 4 Tests	Crookston MN	Shelly MN	Casselton ND	Saint Hyacinthe QUE
Sheyenne (0)	1.3	1.0	1.0	1.0	2.0
MN0404CN (SCN)	1.5	2.0	1.0	1.0	2.0
MN1410 (I)	1.5	2.0	1.0	1.0	2.0
AG0231 (E)	1.3	1.0	1.0	1.0	2.0
AG0532 (0)	1.3	1.0	1.0	1.0	2.0
AG0832	2.3	3.0	2.0	1.0	3.0
AG1234	1.5	1.0	1.0	1.0	3.0
M09-878011	1.5	1.0	1.0	1.0	3.0
M10-214107	1.8	2.0	1.0	1.0	3.0
M11-305073	1.5	2.0	1.0	1.0	2.0
M11-314031	1.5	2.0	1.0	1.0	2.0
ND14-6238	1.3	1.0	1.0	1.0	2.0
ND14-6283	1.3	1.0	1.0	1.0	2.0
ND14-6284	1.3	1.0	1.0	1.0	2.0
ND14-6288	2.3	1.0	1.0	3.0	4.0
ND14-7738	2.0	3.0	1.0	2.0	2.0
ND14-8364	1.3	1.0	1.0	1.0	2.0
ND14-8628	1.3	1.0	1.0	1.0	2.0
ND14-8899	1.3	1.0	1.0	1.0	2.0

UNIFORM TEST 0 ROUNDUP READY, 2017

PROTEIN (%)

Strain	Mean 4 Tests	Crookston MN	Shelly MN	Casselton ND	Saint Hyacinthe QUE
Sheyenne (O)	33.4	33.5	31.8	34.3	34.0
MN0404CN (SCN)	33.0	32.8	33.1	32.4	33.9
MN1410 (I)	33.5	30.6	33.6	35.6	34.3
AG0231 (E)	34.1	32.1	32.9	35.2	36.2
AG0532 (O)	33.7	31.8	33.5	34.5	35.2
AG0832	34.4	33.8	34.2	35.2	34.4
AG1234	33.3	32.1	32.5	35.2	33.6
M09-878011	33.3	31.7	32.7	34.1	34.6
M10-214107	33.1	33.3	31.8	34.2	32.9
M11-305073	37.7	37.6	36.2	38.1	39.0
M11-314031	38.4	36.2	37.7	39.3	40.4
ND14-6238	35.1	33.4	34.8	35.7	36.4
ND14-6283	34.1	34.3	33.8	34.3	34.1
ND14-6284	33.8	33.8	33.8	34.3	33.4
ND14-6288	33.0	33.9	31.9	33.7	32.6
ND14-7738	33.8	34.3	34.1	33.0	33.7
ND14-8364	34.6	34.3	34.6	34.3	35.2
ND14-8628	34.0	33.1	33.3	34.1	35.6
ND14-8899	32.1	32.6	31.6	31.9	32.3

UNIFORM TEST 0 ROUNDUP READY, 2017

OIL (%)

Strain	Mean 4 Tests	Crookston MN	Shelly MN	Casselton ND	Saint Hyacinthe QUE
Sheyenne (O)	18.2	17.8	18.9	18.3	17.8
MN0404CN (SCN)	17.2	18.6	18.6	13.3	18.4
MN1410 (I)	19.3	20.2	19.6	18.5	18.8
AG0231 (E)	17.8	18.2	18.0	18.3	16.8
AG0532 (O)	17.5	18.2	16.5	17.8	17.4
AG0832	18.5	18.5	18.3	18.5	18.6
AG1234	18.1	18.5	18.4	17.6	17.8
M09-878011	19.0	19.3	19.5	18.9	18.3
M10-214107	18.5	17.9	19.1	18.6	18.4
M11-305073	16.9	16.9	17.6	17.0	16.3
M11-314031	17.5	18.1	17.4	17.7	16.8
ND14-6238	18.0	18.0	18.4	18.5	17.1
ND14-6283	17.9	17.1	18.2	18.4	17.7
ND14-6284	18.0	18.0	18.3	18.2	17.7
ND14-6288	18.9	18.2	19.4	19.3	18.9
ND14-7738	19.3	18.4	19.2	20.2	19.5
ND14-8364	17.6	17.3	17.7	18.2	17.2
ND14-8628	18.7	18.4	19.4	19.0	17.9
ND14-8899	19.4	18.9	20.1	19.2	19.6

UNIFORM TEST I Roundup-Ready, 2017								
Ent.	Strain	Parentage	Seed Source	Previous Testing	Gen. Comp.	Unique Traits	Germ. %	Sd. Wt. g/100
1	MN1410 (I)	Unknown	Lorenz	12	F5		99	16.2
2	IA1022 (SCN)	Dairyland 98822 x A00-711024	Cai	11	F5	SCN	81	15.1
3	Sheyenne (O)	Pioneer 9071 x A96-492041	Helms	10	F4	Rps1-c	97	12.2
4	AG1234 (E)		Monsanto	2			90	14.6
5	AG1733 (I)		Monsanto	2			81	18.0
6	AG2031		Monsanto	5			90	17.3
7	M09-956047	MN1410 x MN1410BC2R2F3	Lorenz	2	F5	RR2	98	15.2
8	M10-236-2007	MO HI OLEIC X	Lorenz	Initial	F5	QT-FA	98	15.2
9	M10-237102	MO HI O x MN0095	Lorenz	QT 1	F5	QT-FA	97	12.6
10	M10-238-2036	MO HI OLEIC X	Lorenz	Initial	F5	QT-FA	99	14.9
11	M10-238-2077	MO HI OLEIC X	Lorenz	Initial	F5	QT-FA	98	14.9
12	M11-291113	M04-219004 x M05-182023	Lorenz	Initial	F5	QT-FA	96	15.4
13	M11-305084	M02-356123 x SD07CV-935	Lorenz	Initial	F5	QT	99	16.7
14	M11-314020	MN1505SP x MN0804SP	Lorenz	Initial	F5	QT	100	19.1
15	M11-314101	MN1505SP x MN0804SP	Lorenz	Initial	F5	QT	99	19.5
16	M11-314106	MN1505SP x MN0804SP	Lorenz	Initial	F5	QT	100	18.3

UNIFORM TEST I ROUNDUP READY, 2017

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	IDC
		Score
		Danvers
MN1410 (I)	WGBSYDbfI	2.5
IA1022 (SCN)	PGTSYYI	2.0
Sheyenne (O)	PGTSYYI	1.0
AG1234 (E)	PTBDYBI	2.0
AG1733 (I)	PGTIYLDibI	2.8
AG2031	PTBSYBI	2.8
M09-956047	PGTDYDbf+BI	2.0
M10-236-2007	PTBSYBI	2.0
M10-237102	PT+TB+TSYB+BfI	1.5
M10-238-2036	PT+GB+TIYGI	2.5
M10-238-2077	PTBIYBrI	2.0
M11-291113	PGTDYYI	1.5
M11-305084	PTBSYBI	2.5
M11-314020	PTTSYYI	2.5
M11-314101	PGTSYYI	1.8
M11-314106	PTBSYYI	3.0

UNIFORM TEST I ROUNDUP READY, 2017

REGIONAL SUMMARY

No. of Tests Strain	Yield 5 bu/a	Rank 5 No.	Maturity 6 Date	Lodging 5 Score	Plant Height 5 In.	Seed Size 5 g/100	Seed Quality 5 Score	Composition	
								Protein 5 %	Oil 5 %
MN1410 (I)	53.6	6	9/20	1.7	33	17.3	1.4	35.7	18.4
IA1022 (SCN)	53.1	8	4.0	1.8	31	16.0	1.2	33.3	19.1
Sheyenne (O)	54.5	4	-5.3	1.5	30	16.4	1.9	34.2	18.1
AG1234 (E)	57.4	1	-1.8	1.3	31	15.4	1.4	34.2	17.9
AG1733 (I)	45.0	16	4.6	1.1	29	16.4	1.2	33.6	18.5
AG2031	56.6	2	5.8	1.4	34	18.2	1.6	35.2	18.2
M09-956047	49.0	12	-4.4	1.7	30	16.8	1.6	35.3	18.4
M10-236-2007	49.0	12	0.2	1.3	30	15.1	2.0	37.1	17.5
M10-237102	46.4	14	0.8	2.1	32	13.7	2.0	36.0	18.2
M10-238-2036	53.9	5	-0.1	1.6	32	16.7	1.9	36.9	17.8
M10-238-2077	52.0	9	2.4	2.0	35	16.2	2.0	36.7	17.9
M11-291113	46.3	15	-6.1	1.6	30	16.2	1.8	34.5	19.4
M11-305084	53.3	7	2.3	2.0	39	16.8	1.4	35.1	17.9
M11-314020	50.3	11	-2.5	1.6	31	19.7	1.4	38.5	16.6
M11-314101	54.8	3	2.4	1.4	32	20.0	1.6	37.8	17.5
M11-314106	51.3	10	-1.4	1.9	32	18.0	1.6	39.4	16.3
Mean	49.8		18.6	1.3	31.0	16.8	1.2		
C.V. (%)	9.1		8.2	24.3	6.7	4.0	27.0		
L.S.D. (5%)	3.4		1.1	0.2	1.5	0.8	0.5		

117.3 Days After Planting

UNIFORM TEST I ROUNDUP READY, 2017

2016-2017 2-YEAR MEAN

No. of Tests Strain	Yield 14 bu/a	Rank 14 No.	Maturity 14 Date	Lodging 14 Score	Plant Height 12 In.	Seed Size 13 g/100	Seed Quality 12 Score	Composition	
								Protein 10 %	Oil 10 %
AG1733 (I)	59.5	3	9/24	1.3	31	17.0	1.2	33.7	18.9
AG1234 (E)	62.2	2	-3.5	1.3	33	16.0	1.4	34.5	18.2
AG2031	64.1	1	4.1	1.6	35	18.1	1.5	35.3	18.3
M09-956047	59.0	4	-3.0	1.7	33	17.3	1.7	35.7	18.6

118.4 Days After Planting

UNIFORM TEST I ROUNDUP READY, 2017
REGIONAL SUMMARY - SEED COMPOSITION

No. of Tests Strain	Palmitic 3 %	Stearic 3 %	Oleic 3 %	Linoleic 3 %	Linolenic 3 %
MN1410 (I)	10.3	4.6	22.3	54.5	8.3
IA1022 (SCN)	11.6	4.2	22.4	52.5	9.3
Sheyenne (O)	10.2	4.2	19.2	57.5	8.8
AG1234 (E)	11.7	4.9	19.8	53.4	10.2
AG1733 (I)	11.7	4.2	21.3	53.8	9.0
AG2031	10.7	4.1	21.2	54.0	9.9
M09-956047					
M10-236-2007	12.3	4.8	20.0	61.5	1.4
M10-237102	7.7	3.3	58.2	24.7	6.2
M10-238-2036	8.9	3.6	45.2	33.4	8.9
M10-238-2077	9.1	3.7	48.9	30.8	7.5
M11-291113	10.8	3.8	20.1	57.0	8.3
M11-305084					
M11-314020					
M11-314101					
M11-314106					
Mean	10.5	4.1	29.0	48.5	8.0
C.V. (%)	3.3	5.6	28.0	16.7	7.8
L.S.D. (5%)	0.5	0.3	11.4	11.4	0.9

UNIFORM TEST I ROUNDUP READY, 2017

YIELD (bu/a)

Strain	Mean 5 Tests	Wanatah IN	West Lafayette IN	East Lansing MI	Saginaw MI	Rose- mount MN	Morris*	Saint Hyacinthe QUE
MN1410 (I)	53.6	55.2	54.6	40.0	49.5	45.5	27.3	68.7
IA1022 (SCN)	53.1	55.3	53.4	43.1	53.9	45.2	49.9	59.7
Shyenne (O)	54.5	68.5	51.3	43.6	48.5	56.9	25.0	60.9
AG1234 (E)	57.4	58.6	56.0	48.5	53.1	45.7	45.1	70.8
AG1733 (I)	45.0	52.9	42.9	32.9	47.6	36.4	36.2	48.7
AG2031	56.6	49.1	64.1	43.5	55.6	54.3	54.4	70.5
M09-956047	49.0	56.0	48.1	39.9	42.0	44.5	27.7	59.2
M10-236-2007	49.0	55.4	55.1	39.3	41.5	34.7	32.1	53.7
M10-237102	46.4	47.4	45.3	32.6	46.5	28.3	29.1	60.4
M10-238-2036	53.9	58.5	53.8	38.8	48.5	39.0	36.6	70.1
M10-238-2077	52.0	57.7	55.3	40.3	45.1	32.5	31.0	61.5
M11-291113	46.3	45.9	48.3	36.5	41.7	40.7	22.2	59.3
M11-305084	53.3	58.2	55.9	43.5	47.4	42.0	36.5	61.3
M11-314020	50.3	53.9	50.3	43.8	40.7	34.6	29.8	62.6
M11-314101	54.8	56.3	55.5	42.5	47.5	45.5	27.5	72.2
M11-314106	51.3	53.8	48.1	43.2	46.0	27.1	27.2	65.4
Location Mean		55.2	52.4	40.8	47.2	40.8	33.6	62.8
C.V. (%)		6.3	4.4	12.4	8.8	27.1	17.7	5.3
L.S.D. (5%)		4.8	3.2	11.7	10.9	18.4	9.9	5.0
Row sp. (In.)		30	30	30	15	30	30	15
Rows/Plot		4	4	4	6	4	4	4
Reps		3	3	2	2	3	3	3

*Data not included in the mean.

UNIFORM TEST I ROUNDUP READY, 2017

YIELD RANK

Strain	Yield Rank	Wanatah IN	West Lafayette IN	East Lansing MI	Saginaw MI	Rosemount MN	Morris MN	Saint Hyacinthe QUE
MN1410 (I)	6	10	7	10	4	5	13	5
IA1022 (SCN)	8	9	9	7	2	6	2	12
Sheyenne (O)	4	1	10	3	6	1	15	10
AG1234 (E)	1	2	2	1	3	3	3	2
AG1733 (I)	16	13	16	15	7	11	6	16
AG2031	2	14	1	4	1	2	1	3
M09-956047	12	7	13	11	13	7	11	14
M10-236-2007	12	8	6	12	15	12	7	15
M10-237102	14	15	15	16	10	15	10	11
M10-238-2036	5	3	8	13	5	10	4	4
M10-238-2077	9	5	5	9	12	14	8	8
M11-291113	15	16	12	14	14	9	16	13
M11-305084	7	4	3	5	9	8	5	9
M11-314020	11	11	11	2	16	13	9	7
M11-314101	3	6	4	8	8	4	12	1
M11-314106	10	12	13	6	11	16	14	6

UNIFORM TEST I ROUNDUP READY, 2017

MATURITY (date)

Strain	Mean 6 Tests	Wanatah IN	West Lafayette IN	East Lansing MI	Saginaw MI	Rosemount MN	Morris MN	Saint Hyacinthe QUE
MN1410 (I)	9/20	9/20	9/18	9/19	9/12	9/23		9/30
IA1022 (SCN)	4	3	3	7	6	4		2
Sheyenne (O)	-5	-5	-3	-1	0	-18		-5
AG1234 (E)	-2	-3	-3	0	1	-2		-3
AG1733 (I)	5	3	4	6	6	4		5
AG2031	6	6	3	7	7	3		10
M09-956047	-4	-2	-3	-4	0	-12		-5
M10-236-2007	0	-1	0	3	3	-0		-3
M10-237102	1	0	-1	2	2	1		2
M10-238-2036	-0	-2	1	1	1	-1		0
M10-238-2077	2	3	1	5	2	2		2
M11-291113	-6	-2	-4	-5	0	-18		-8
M11-305084	2	3	1	3	2	1		4
M11-314020	-2	0	-4	0	2	-7		-5
M11-314101	2	4	1	4	3	1		2
M11-314106	-1	1	-3	0	0	-2		-5
Date Planted	5/26	5/30	6/2	6/2	5/17	5/10		6/2
Days to Mature	117	113	108	109	118	136		120

UNIFORM TEST I ROUNDUP READY, 2017

LODGING (score)

Strain	Mean 5 Tests	Wanatah IN	West Lafayette IN	East Lansing MI	Saginaw MI	Rose- mount MN	Morris MN	Saint Hyacinthe QUE
MN1410 (I)	1.7	1.2	1.8	1.0	1.0	3.7		
IA1022 (SCN)	1.8	1.0	2.0	1.5	1.0	3.3		
Sheyenne (O)	1.5	1.0	1.5	1.5	1.0	2.3		
AG1234 (E)	1.3	1.0	1.3	2.0	1.0	1.0		
AG1733 (I)	1.1	1.0	1.2	1.5	1.0	1.0		
AG2031	1.4	1.0	1.3	1.5	1.0	2.3		
M09-956047	1.7	1.0	2.3	1.5	1.0	2.7		
M10-236-2007	1.3	1.0	1.3	1.0	1.0	2.3		
M10-237102	2.1	1.5	1.8	1.5	1.0	4.7		
M10-238-2036	1.6	1.0	1.3	1.5	1.0	3.0		
M10-238-2077	2.0	1.2	2.0	2.0	1.0	3.7		
M11-291113	1.6	1.0	1.0	2.0	1.0	3.0		
M11-305084	2.0	1.3	2.0	1.5	1.0	4.0		
M11-314020	1.6	1.0	1.5	1.5	1.0	3.0		
M11-314101	1.4	1.0	1.2	1.0	1.0	3.0		
M11-314106	1.9	1.0	2.0	2.0	1.0	3.7		

UNIFORM TEST I ROUNDUP READY, 2017

PLANT HEIGHT (inches)

Strain	Mean 5 Tests	Wanatah IN	West Lafayette IN	East Lansing MI	Saginaw MI	Rose- mount MN	Morris MN	Saint Hyacinthe QUE
MN1410 (I)	33	32	34	33	28			41
IA1022 (SCN)	31	31	31	33	26			34
Sheyenne (O)	30	28	31	31	27			35
AG1234 (E)	31	31	29	34	28			36
AG1733 (I)	29	27	29	31	25			31
AG2031	34	34	32	35	34			37
M09-956047	30	29	29	30	28			35
M10-236-2007	30	29	30	30	24			35
M10-237102	32	35	28	35	29			33
M10-238-2036	32	30	31	34	26			37
M10-238-2077	35	32	35	37	30			39
M11-291113	30	28	31	33	24			33
M11-305084	39	39	41	40	35			38
M11-314020	31	32	30	31	27			35
M11-314101	32	31	34	32	27			37
M11-314106	32	33	32	34	29			33

UNIFORM TEST I ROUNDUP READY, 2017

SEED SIZE (g/100)

Strain	Mean 5 Tests	Wanatah IN	West Lafayette IN	East Lansing MI	Saginaw MI	Rose- mount MN	Morris MN	Saint Hyacinthe QUE
MN1410 (I)	17.3	16.8	17.2			17.2	18.2	17.1
IA1022 (SCN)	16.0	15.0	15.6			17.7	17.2	14.7
Sheyenne (O)	16.4	17.4	16.6			17.6	14.7	15.6
AG1234 (E)	15.4	15.0	15.0			16.8	16.2	14.2
AG1733 (I)	16.4	16.8	16.2			17.3	17.2	14.4
AG2031	18.2	17.5	17.0			19.0	18.1	19.3
M09-956047	16.8	14.9	16.6			18.6	17.3	16.4
M10-236-2007	15.1	14.8	14.6			16.6	15.4	13.9
M10-237102	13.7	14.7	14.1			13.1	12.3	14.1
M10-238-2036	16.7	15.7	15.4			18.0	17.4	17.2
M10-238-2077	16.2	15.4	15.9			17.2	16.6	16.0
M11-291113	16.2	15.6	16.8			17.2	15.4	15.9
M11-305084	16.8	15.8	17.2			17.1	17.8	16.2
M11-314020	19.7	18.5	19.1			20.5	20.4	20.2
M11-314101	20.0	19.3	20.3			21.0	19.9	19.4
M11-314106	18.0	16.5	18.0			19.4	18.0	18.1

UNIFORM TEST I ROUNDUP READY, 2017

SEED QUALITY (score)

Strain	Mean 5 Tests	Wanatah IN	West Lafayette IN	East Lansing MI	Saginaw MI	Rose- mount MN	Morris MN	Saint Hyacinthe QUE
MN1410 (I)	1.4	1.0	1.0			1.0	1.0	3.0
IA1022 (SCN)	1.2	1.0	1.0			1.0	1.0	2.0
Sheyenne (O)	1.9	1.5	1.0			2.0	2.0	3.0
AG1234 (E)	1.4	1.0	1.0			1.0	1.0	3.0
AG1733 (I)	1.2	1.0	1.0			1.0	1.0	2.0
AG2031	1.6	1.0	1.0			1.0	2.0	3.0
M09-956047	1.6	1.0	1.0			1.0	2.0	3.0
M10-236-2007	2.0	2.0	1.0			2.0	2.0	3.0
M10-237102	2.0	2.0	1.0			2.0	2.0	3.0
M10-238-2036	1.9	1.5	1.0			2.0	2.0	3.0
M10-238-2077	2.0	2.0	1.0			2.0	2.0	3.0
M11-291113	1.8	2.0	1.0			1.0	2.0	3.0
M11-305084	1.4	1.0	1.0			1.0	2.0	2.0
M11-314020	1.4	1.0	1.0			1.0	1.0	3.0
M11-314101	1.6	1.0	1.0			2.0	2.0	2.0
M11-314106	1.6	1.0	1.0			2.0	1.0	3.0

UNIFORM TEST I ROUNDUP READY, 2017**FATTY ACID, PALMITIC (%)**

Strain	Mean 3 Tests	West Lafayette IN	Rose- mount MN	Morris MN
MN1410 (I)	10.3	10.5	10.1	10.2
IA1022 (SCN)	11.6	11.6	11.8	11.4
Sheyenne (O)	10.2	10.2	10.6	9.8
AG1234 (E)	11.7	11.9	11.8	11.3
AG1733 (I)	11.7	11.9	11.8	11.5
AG2031	10.7	10.9	10.6	10.5
M10-236-2007	12.3	12.6	12.1	12.1
M10-237102	7.7	8.6	7.4	7.0
M10-238-2036	8.9	10.0	8.3	8.4
M10-238-2077	9.1	9.6	9.2	8.6
M11-291113	10.8	10.9	11.0	10.4

UNIFORM TEST I ROUNDUP READY, 2017**FATTY ACID, STEARIC (%)**

Strain	Mean 3 Tests	West Lafayette IN	Rose- mount MN	Morris MN
MN1410 (I)	4.6	4.5	4.6	4.7
IA1022 (SCN)	4.2	4.2	4.3	4.1
Sheyenne (O)	4.2	4.5	3.9	4.3
AG1234 (E)	4.9	4.7	4.9	5.0
AG1733 (I)	4.2	4.1	4.5	4.0
AG2031	4.1	4.0	4.6	3.8
M10-236-2007	4.8	4.6	5.0	4.9
M10-237102	3.3	3.4	3.4	3.0
M10-238-2036	3.6	3.8	3.6	3.5
M10-238-2077	3.7	3.5	4.0	3.6
M11-291113	3.8	3.7	3.7	3.9

UNIFORM TEST I ROUNDUP READY, 2017**FATTY ACID, OLEIC (%)**

Strain	Mean 3 Tests	West Lafayette IN	Rose- mount MN	Morris MN
MN1410 (I)	22.3	23.6	21.8	21.6
IA1022 (SCN)	22.4	23.3	22.3	21.7
Sheyenne (O)	19.2	22.1	17.4	18.1
AG1234 (E)	19.8	19.2	20.2	20.0
AG1733 (I)	21.3	20.5	22.1	21.4
AG2031	21.2	20.6	23.5	19.5
M10-236-2007	20.0	19.0	21.6	19.5
M10-237102	58.2	30.4	71.6	72.5
M10-238-2036	45.2	31.1	55.3	49.0
M10-238-2077	48.9	43.7	48.4	54.6
M11-291113	20.1	22.1	18.4	19.8

UNIFORM TEST I ROUNDUP READY, 2017**FATTY ACID, LINOLEIC (%)**

Strain	Mean 3 Tests	West Lafayette IN	Rose- mount MN	Morris MN
MN1410 (I)	54.5	53.4	55.3	54.9
IA1022 (SCN)	52.5	52.2	52.3	53.0
Sheyenne (O)	57.5	55.5	58.7	58.4
AG1234 (E)	53.4	54.6	52.4	53.3
AG1733 (I)	53.8	54.7	52.9	53.7
AG2031	54.0	55.3	51.8	55.0
M10-236-2007	61.5	62.4	59.9	62.1
M10-237102	24.7	53.6	10.3	10.2
M10-238-2036	33.4	46.6	23.9	29.7
M10-238-2077	30.8	36.5	30.2	25.6
M11-291113	57.0	55.7	58.1	57.1

UNIFORM TEST I ROUNDUP READY, 2017**FATTY ACID, LINOLENIC (%)**

Strain	Mean 3 Tests	West Lafayette IN	Rose- mount MN	Morris MN
MN1410 (I)	8.3	8.0	8.2	8.6
IA1022 (SCN)	9.3	8.8	9.3	9.9
Shyenne (O)	8.8	7.7	9.5	9.3
AG1234 (E)	10.2	9.6	10.7	10.4
AG1733 (I)	9.0	8.8	8.7	9.4
AG2031	9.9	9.1	9.4	11.2
M10-236-2007	1.4	1.5	1.3	1.5
M10-237102	6.2	4.0	7.3	7.3
M10-238-2036	8.9	8.6	8.9	9.3
M10-238-2077	7.5	6.6	8.2	7.5
M11-291113	8.3	7.5	8.8	8.7

UNIFORM TEST I ROUNDUP READY, 2017

Strain	PROTEIN (%) - NIR						PROTEIN (%) - LECO		
	Mean 5 Tests	Wanatah IN	West Laf IN	Morris MN	Rose- mount MN	Saint Hyacinthe QUE	West Laf IN	Morris MN	Rose- mount MN
MN1410 (I)	35.7	35.3	34.9	37.3	35.3	35.6			
IA1022 (SCN)	33.3	33.9	32.7	33.9	34.4	31.8			
Sheyenne (O)	34.2	33.9	34.2	34.4	33.5	35.1			
AG1234 (E)	34.2	34.0	34.4	35.3	33.5	33.7			
AG1733 (I)	33.6	32.3	34.1	34.6	34.2	33.0			
AG2031	35.2	34.1	35.4	35.8	35.1	35.4			
M09-956047	35.3	36.4	33.6	36.4	34.3	35.7			
M10-236-2007	37.1	36.4	36.7	37.5	37.8	37.0	36.3	37.3	37.4
M10-237102	36.0	37.1	36.0	33.7	36.1	37.3	36.4	35.5	35.0
M10-238-2036	36.9	35.9	35.3	38.9	36.4	38.0	34.5	37.7	35.8
M10-238-2077	36.7	35.8	36.3	37.8	36.6	36.8	35.7	37.1	36.1
M11-291113	34.5	34.4	32.9	35.0	35.2	35.3	33.4	35.6	34.4
M11-305084	35.1	32.9	34.6	37.3	35.7	35.0	33.8	37.7	34.2
M11-314020	38.5	38.0	37.5	39.4	37.4	40.1	33.8	38.5	36.4
M11-314101	37.8	37.3	37.2	38.0	37.7	38.7	36.6	39.3	37.0
M11-314106	39.4	38.6	38.6	39.9	39.3	40.6	37.7	40.0	39.8

UNIFORM TEST I ROUNDUP READY, 2017

Strain	OIL (%)					
	Mean 5 Tests	Wanatah IN	West Laf IN	Morris MN	Rose- mount MN	Saint Hyacinthe QUE
MN1410 (I)	18.4	18.8	19.2	17.7	18.3	18.0
IA1022 (SCN)	19.1	18.9	19.9	18.8	18.6	19.5
Sheyenne (O)	18.1	18.8	18.7	17.9	18.1	16.9
AG1234 (E)	17.9	17.6	18.6	17.7	18.0	17.4
AG1733 (I)	18.5	19.1	18.8	18.2	17.9	18.4
AG2031	18.2	18.9	18.6	17.6	18.0	17.7
M09-956047	18.4	18.3	19.8	17.8	18.4	17.5
M10-236-2007	17.5	18.1	18.4	17.7	16.8	16.6
M10-237102	18.2	18.2	18.5	18.9	18.5	17.1
M10-238-2036	17.8	18.9	18.7	17.0	17.4	17.2
M10-238-2077	17.9	18.7	18.5	17.3	17.9	17.4
M11-291113	19.4	19.4	22.1	18.9	18.5	18.2
M11-305084	17.9	18.8	18.5	17.0	17.5	17.6
M11-314020	16.6	17.2	17.4	15.9	16.6	15.9
M11-314101	17.5	18.0	18.4	17.2	17.1	16.7
M11-314106	16.3	16.7	17.1	15.8	16.1	15.8

UNIFORM TEST II Roundup-Ready, 2017

Ent.	Strain	Parentage	Seed Source	Previous Testing	Gen. Comp.	Unique Traits	Germ. %	Sd. Wt. g/100
1	IA2102 (II)	A04-545045 x AgriPro 98180-A01-0613	Cai	6	F4		83	16.0
2	LD02-4485 (SCN)	M90-184111 x IA3010	Diers	5	F5	SCN	94	13.9
3	LD12-15246 R2a	LD09-17170R2 x LD08-12459a	Diers	1	F5	RR2, Rag 1+2	96	15.0
4	AG2031 (E)		Monsanto	5			90	17.3
5	AG2535		Monsanto	2			92	15.3
6	E11128T	E05276-T x LD01-7323	Wang	Initial		QT-> 50% Meal, SCN	93	22.0
7	E14852	E08210LL(2) x KB10-10#990-1	Wang	Initial		QT-> 50% Meal, FA	95	18.8
8	E15079T	E07158-T x LD01-7323	Wang	Initial	F5	QT-> 50% Meal, SCN?	96	25.5
9	E15165T	E07158-T x E07051	Wang	Initial	F5	QT-> 50% Meal, SCN?	87	29.9
10	E15346T	IA2102 x E07051	Wang	Initial	F5	QT-> 50% Meal, SCN?	88	24.3
11	HM14-G047	Dennison x OHS 303	McHale	Initial	F4	QT-> 50% Meal	95	14.8
12	HM14-W070	HS6-3971-R x HS7W-190	McHale	Initial	F4	QT-> 50% Meal	96	16.0
13	LD13-13228R1a	LD08-12430a x LD06-30505Ra	Diers	1	F5	Rag 1+2	92	12.9
14	LD13-13334R1a	LD05-1540 x LD06-30505Ra	Diers	Initial	F5		88	14.3
15	LD13-13478R1a	LD08-12446a x LD06-14187R	Diers	1	F5	Rag 2	86	13.5
16	LD13-14071R2	LD02-4485 x LD09-17170R2	Diers	1	F5		84	14.0
17	M10-238-2025	MO HI OLEIC X	Lorenz	Initial	F5	QT-FA	100	17.0
18	M10-238-2098	MO HI OLEIC X	Lorenz	Initial	F5	QT-FA	100	15.1
19	M10-238-2100	MO HI OLEIC X	Lorenz	Initial	F5	QT-FA	99	17.6

UNIFORM TEST II ROUNDUP READY, 2017

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	IDC
		Score
		Danvers
IA2102 (II)	WGTDYYI	2.3
LD02-4485 (SCN)	PGGDYBfI	1.8
LD12-15246 R2a	PGTDYDibI	1.5
AG2031 (E)	PTBSYBI	2.5
AG2535	PGTDYDibI	2.3
E11128T	PGTSYYI	3.0
E14852	PTBSYBI	1.8
E15079T	PGTIYYI	3.3
E15165T	PGTIYYI	2.5
E15346T	P+WGTSYYI	2.8
HM14-G047	WTBIYBI	3.0
HM14-W070	PTTDYBI	3.0
LD13-13228R1a	PGTIYBfI	1.8
LD13-13334R1a	WGTSYBfI	2.8
LD13-13478R1a	PTTDYBI	4.8
LD13-14071R2	PGTIYDibI	1.8
M10-238-2025	PGTSYG+YI	2.8
M10-238-2098	PT+GT+BSYBr+BI	2.3
M10-238-2100	PGTSYY+LbfI	2.0

UNIFORM TEST II ROUNDUP READY, 2017

REGIONAL SUMMARY

No. of Tests Strain	Yield 7 bu/a	Rank 7 No.	Maturity 7 Date	Lodging 8 Score	Plant Height 8 In.	Seed Size 6 g/100	Seed Quality 6 Score	<u>Composition</u>	
								Protein 6 %	Oil 6 %
IA2102 (II)	59.6	4	9/25	1.9	35	16.9	1.3	34.0	18.4
LD02-4485 (SCN)	60.8	2	1.5	1.6	34	15.9	1.3	32.6	18.9
LD12-15246 R2a	59.3	6	3.1	1.7	32	15.8	1.2	34.0	18.5
AG2031 (E)	62.4	1	-2.6	1.4	34	17.8	1.2	34.7	18.7
AG2535	58.5	9	1.6	1.5	35	16.8	1.3	33.4	18.9
E11128T	56.5	11	1.1	1.7	33	21.4	1.3	36.1	17.5
E14852	56.9	10	3.9	1.4	33	17.5	1.4	36.4	17.2
E15079T	56.5	11	-1.1	1.9	36	20.4	1.3	36.4	17.5
E15165T	56.2	14	-2.9	1.3	31	22.1	1.2	38.5	17.2
E15346T	60.3	3	-1.5	1.6	34	18.5	1.3	33.8	19.0
HM14-G047	56.0	15	5.9	2.2	37	16.7	1.2	36.3	17.4
HM14-W070	55.2	16	6.1	1.9	38	17.5	1.3	36.1	18.2
LD13-13228R1a	58.9	7	3.3	1.9	36	14.4	1.0	32.1	19.5
LD13-13334R1a	59.5	5	7.4	1.8	39	15.7	1.3	32.9	19.3
LD13-13478R1a	56.5	11	3.9	1.8	39	15.9	1.0	33.0	19.4
LD13-14071R2	58.9	7	2.9	1.6	35	15.8	1.3	33.9	18.5
M10-238-2025	50.6	19	1.6	2.0	40	17.8	1.4	36.8	16.8
M10-238-2098	53.6	17	0.7	1.7	40	16.6	1.8	34.5	19.1
M10-238-2100	53.1	18	3.5	1.7	38	17.5	1.3	37.2	17.3
Mean	57.2		26.6	1.7	36.0	17.1	1.3		
C.V. (%)	9.5		8.7	24.0	7.0	5.4	24.3		
L.S.D. (5%)	3.1		1.4	0.2	1.4	0.8	0.3		

123.9 Days After Planting

UNIFORM TEST II ROUNDUP READY, 2017

2016-2017 2-YEAR MEAN

No. of Tests Strain	Yield 18 bu/a	Rank 18 No.	Maturity* 16 Date	Lodging 18 Score	Plant Height 16 In.	Seed Size 15 g/100	Seed Quality 14 Score	<u>Composition</u>	
								Protein 13 %	Oil 13 %
LD12-15246 R2a	67.2	2		1.7	34	15.8	1.2	34.2	18.7
AG2031 (E)	67.7	1		1.6	36	17.7	1.4	34.9	18.9
AG2535	66.6	3		1.7	36	16.6	1.3	33.8	19.1
LD13-13228R1a	65.8	4		2.1	38	14.7	1.2	32.2	19.7
LD13-13478R1a	62.9	6		2.0	40	15.5	1.1	33.6	19.4
LD13-14071R2	64.0	5		1.9	37	15.6	1.4	34.1	18.6

124.3 Days After Planting

*No Reference Check to calculate maturities

UNIFORM TEST II ROUNDUP READY, 2017
REGIONAL SUMMARY - SEED COMPOSITION

No. of Tests Strain	Palmitic 6 %	Stearic 6 %	Oleic 6 %	Linoleic 6 %	Linolenic 6 %
IA2102 (II)	11.4	4.7	20.5	53.6	9.8
LD02-4485 (SCN)	11.3	4.8	21.2	52.9	9.8
LD12-15246 R2a	11.1	4.8	21.3	53.8	9.0
AG2031 (E)	10.5	4.2	21.1	55.2	9.0
AG2535	10.9	5.1	22.3	53.2	8.6
E11128T					
E14852	4.9	3.8	83.3	6.9	1.1
E15079T					
E15165T					
E15346T					
HM14-G047					
HM14-W070					
LD13-13228R1a					
LD13-13334R1a					
LD13-13478R1a					
LD13-14071R2					
M10-238-2025	9.5	3.5	42.0	36.6	8.4
M10-238-2098	9.8	4.0	33.6	44.1	8.5
M10-238-2100	9.2	3.8	55.5	24.2	7.3
Mean	9.8	4.3	35.6	42.3	8.0
C.V. (%)	4.5	6.5	16.0	11.9	6.6
L.S.D. (5%)	0.4	0.3	5.5	4.9	0.5

UNIFORM TEST II ROUNDUP READY, 2017

YIELD (bu/a)

Strain	Mean 7 Tests	Pontiac IL	Urbana IL	Wanatah IN	West Lafayette IN
IA2102 (II)	59.6	91.2	45.3	60.0	57.1
LD02-4485 (SCN)	60.8	86.0	52.1	55.4	63.1
LD12-15246 R2a	59.3	86.3	46.6	59.7	57.2
AG2031 (E)	62.4	87.3	35.1** ²	63.6	62.5
AG2535	58.5	86.9	45.9	57.2	59.7
E11128T	56.5	77.9	45.0	64.1	57.6
E14852	56.9	79.4	45.6	65.8	56.8
E15079T	56.5	80.6	42.9* ¹	53.6	62.0
E15165T	56.2	75.6	45.1* ¹	57.6	54.0
E15346T	60.3	88.6	44.6	64.7	61.3
HM14-G047	56.0	76.6	44.0	60.5	60.1
HM14-W070	55.2	75.8	50.0	57.8	54.3
LD13-13228R1a	58.9	78.3	46.3	62.5	63.7
LD13-13334R1a	59.5	81.2	52.1	66.0	60.4
LD13-13478R1a	56.5	82.4	52.3	60.9	61.2
LD13-14071R2	58.9	83.1	53.8	60.1	62.6
M10-238-2025	50.6	71.3	35.1	53.8	50.5
M10-238-2098	53.6	76.9	39.3	51.0	55.5
M10-238-2100	53.1	81.4	34.7	54.4	55.9
Location Mean		81.4	45.8	59.4	58.7
C.V. (%)		4.6	11.1	6.1	4.8
L.S.D. (5%)		7.9	10.6	5.0	3.9
Row sp. (In.)		30	30	30	30
Rows/Plot		4	4	4	4
Reps		2	2	3	3

*Data not included in the mean.

*¹ one rep shattering, **² both reps shatteing

UNIFORM TEST II ROUNDUP READY, 2017

YIELD (bu/a)

Strain	Britton MI	East Lansing MI	Lamberton* MN	Waseca MN
IA2102 (II)	55.9	46.8	56.9	60.5
LD02-4485 (SCN)	52.2	46.6	51.7	70.1
LD12-15246 R2a	55.8	39.9	45.2	69.7
AG2031 (E)	49.7	42.1	56.5	69.1
AG2535	55.1	39.9	67.4	64.5
E11128T	51.0	44.0	51.2	56.2
E14852	53.5	37.9	48.9	59.2
E15079T	48.5	38.6	56.9	55.9
E15165T	49.3	40.4	41.1	60.1
E15346T	60.0	43.8	57.5	59.0
HM14-G047	55.2	41.3	46.6	54.1
HM14-W070	58.6	38.2	46.7	51.6
LD13-13228R1a	57.5	46.2	49.2	57.6
LD13-13334R1a	52.2	45.1	50.1	59.3
LD13-13478R1a	56.7	32.6	45.1	49.3
LD13-14071R2	62.3	38.5	50.5	52.2
M10-238-2025	52.9	41.3	39.5	49.0
M10-238-2098	55.6	43.4	37.7	53.6
M10-238-2100	53.9	41.5	44.3	50.1
Location Mean	54.5	41.5	49.6	57.9
C.V. (%)	8.5	14.1	15.9	10.0
L.S.D. (5%)	12.0	14.9	13.1	9.6
Row sp. (In.)	15	30	30	30
Rows/Plot	6	4	4	4
Reps	2	2	3	3

*Data not included in the mean.

UNIFORM TEST II ROUNDUP READY, 2017

YIELD RANK

Strain	Yield Rank	Pontiac IL	Urbana IL	Wanatah IN	West Lafayette IN
IA2102 (II)	4	1	10	10	13
LD02-4485 (SCN)	2	6	3	15	2
LD12-15246 R2a	6	5	6	11	12
AG2031 (E)	1	3	17	5	4
AG2535	9	4	8	14	10
E11128T	11	14	12	4	11
E14852	10	12	9	2	14
E15079T	11	11	15	18	5
E15165T	14	18	11	13	18
E15346T	3	2	13	3	6
HM14-G047	15	16	14	8	9
HM14-W070	16	17	5	12	17
LD13-13228R1a	7	13	7	6	1
LD13-13334R1a	5	10	3	1	8
LD13-13478R1a	11	8	2	7	7
LD13-14071R2	7	7	1	9	3
M10-238-2025	19	19	18	17	19
M10-238-2098	17	15	16	19	16
M10-238-2100	18	9	19	16	15

UNIFORM TEST II ROUNDUP READY, 2017

MATURITY (date)

Strain	Mean 7 Tests	Pontiac IL	Urbana IL	Wanatah IN	West Lafayette IN
IA2102 (II)	9/25	9/20	9/7	9/27	9/26
LD02-4485 (SCN)	1	1	3	1	2
LD12-15246 R2a	3	3	3	3	3
AG2031 (E)	-3	-5	-5	3	0
AG2535	2	0	1	1	1
E11128T	1	1	1	0	1
E14852	4	2	6	2	4
E15079T	-1	-5	-4	0	2
E15165T	-3	-5	-2	-1	4
E15346T	-1	-4	-2	0	1
HM14-G047	6	5	6	7	3
HM14-W070	6	6	9	5	4
LD13-13228R1a	3	1	1	2	2
LD13-13334R1a	7	6	9	4	6
LD13-13478R1a	4	3	4	3	5
LD13-14071R2	3	3	4	3	3
M10-238-2025	2	0	0	2	1
M10-238-2098	1	-1	1	3	2
M10-238-2100	4	2	1	2	4
Date Planted	5/24	5/17	5/15	5/30	6/2
Days to Mature	124	126	115	120	116

UNIFORM TEST II ROUNDUP READY, 2017

YIELD RANK

Strain	Britton MI	East Lansing MI	Lamberton MN	Waseca MN
IA2102 (II)	6	1	3	5
LD02-4485 (SCN)	15	2	6	1
LD12-15246 R2a	7	14	14	2
AG2031 (E)	17	8	5	3
AG2535	10	13	1	4
E11128T	16	5	7	11
E14852	12	18	11	8
E15079T	19	15	4	12
E15165T	18	12	17	6
E15346T	2	6	2	9
HM14-G047	9	11	13	13
HM14-W070	3	17	12	16
LD13-13228R1a	4	3	10	10
LD13-13334R1a	14	4	9	7
LD13-13478R1a	5	19	15	18
LD13-14071R2	1	16	8	15
M10-238-2025	13	10	18	19
M10-238-2098	8	7	19	14
M10-238-2100	11	9	16	17

UNIFORM TEST II ROUNDUP READY, 2017

MATURITY (date)

Strain	Britton MI	East Lansing MI	Lamberton MN	Waseca MN
IA2102 (II)		9/28	10/10	10/2
LD02-4485 (SCN)		1	-1	4
LD12-15246 R2a		2	4	4
AG2031 (E)		-4	-5	-4
AG2535		2	3	3
E11128T		1	3	0
E14852		3	4	6
E15079T		-1	-1	0
E15165T		-3	-9	-5
E15346T		1	-5	-1
HM14-G047		6	5	10
HM14-W070		5	6	8
LD13-13228R1a		4	4	9
LD13-13334R1a		8	9	10
LD13-13478R1a		6	2	5
LD13-14071R2		2	4	1
M10-238-2025		3	3	3
M10-238-2098		2	-2	-0
M10-238-2100		3	5	8
Date Planted		6/2	5/15	5/31
Days to Mature		118	148	124

UNIFORM TEST II ROUNDUP READY, 2017

LODGING (score)

Strain	Mean 8 Tests	Pontiac IL	Urbana IL	Wanatah IN	West Lafayette IN
IA2102 (II)	1.9	2.8	1.0	1.2	1.7
LD02-4485 (SCN)	1.6	2.5	1.0	1.3	1.0
LD12-15246 R2a	1.7	2.0	1.0	1.5	1.0
AG2031 (E)	1.4	1.8	1.0	1.0	1.0
AG2535	1.5	2.0	1.0	1.2	1.0
E11128T	1.7	2.3	1.0	2.0	1.0
E14852	1.4	2.0	1.0	1.0	1.0
E15079T	1.9	2.8	1.0	2.0	1.0
E15165T	1.3	1.5	1.0	1.0	1.2
E15346T	1.6	2.0	1.0	1.0	1.5
HM14-G047	2.2	4.3	1.0	1.0	1.7
HM14-W070	1.9	3.5	1.0	1.5	1.2
LD13-13228R1a	1.9	2.3	1.0	2.0	1.7
LD13-13334R1a	1.8	2.3	1.0	1.8	1.0
LD13-13478R1a	1.8	2.5	1.0	1.5	1.0
LD13-14071R2	1.6	2.0	1.0	1.5	1.3
M10-238-2025	2.0	2.8	1.0	2.0	1.8
M10-238-2098	1.7	2.5	1.0	1.0	1.5
M10-238-2100	1.7	2.5	1.0	1.5	1.0

UNIFORM TEST II ROUNDUP READY, 2017

PLANT HEIGHT (inches)

Strain	Mean 8 Tests	Pontiac IL	Urbana IL	Wanatah IN	West Lafayette IN
IA2102 (II)	35	38	31	33	35
LD02-4485 (SCN)	34	39	30	35	32
LD12-15246 R2a	32	37	27	30	28
AG2031 (E)	34	40	27	34	33
AG2535	35	40	32	32	32
E11128T	33	40	31	34	30
E14852	33	34	29	35	29
E15079T	36	41	33	36	31
E15165T	31	36	28	30	32
E15346T	34	35	31	36	31
HM14-G047	37	42	35	36	35
HM14-W070	38	43	35	39	34
LD13-13228R1a	36	39	30	36	34
LD13-13334R1a	39	45	33	38	34
LD13-13478R1a	39	41	35	40	37
LD13-14071R2	35	39	34	37	32
M10-238-2025	40	41	36	45	39
M10-238-2098	40	44	37	41	35
M10-238-2100	38	42	31	40	32

UNIFORM TEST II ROUNDUP READY, 2017

LODGING (score)

Strain	Britton MI	East Lansing MI	Lamberton MN	Waseca MN
IA2102 (II)	1.0	1.5	2.0	4.0
LD02-4485 (SCN)	1.0	1.0	2.0	3.0
LD12-15246 R2a	1.0	1.5	2.0	3.3
AG2031 (E)	1.0	1.5	1.7	2.3
AG2535	1.0	1.0	2.0	2.7
E11128T	1.0	1.0	2.0	3.3
E14852	1.0	1.0	1.3	3.0
E15079T	1.0	1.0	2.7	4.0
E15165T	1.0	1.0	1.0	2.7
E15346T	1.0	1.0	2.0	3.3
HM14-G047	1.0	1.0	2.3	5.0
HM14-W070	1.0	1.0	2.0	3.7
LD13-13228R1a	1.0	1.0	2.3	4.0
LD13-13334R1a	1.0	1.0	2.3	3.7
LD13-13478R1a	1.0	1.0	2.0	4.0
LD13-14071R2	1.0	1.0	2.0	3.0
M10-238-2025	1.0	1.5	2.0	3.7
M10-238-2098	1.0	1.5	2.0	3.3
M10-238-2100	1.0	1.0	2.0	3.3

UNIFORM TEST II ROUNDUP READY, 2017

PLANT HEIGHT (inches)

Strain	Britton MI	East Lansing MI	Lamberton MN	Waseca MN
IA2102 (II)	28	36	35	43
LD02-4485 (SCN)	28	33	35	44
LD12-15246 R2a	27	30	35	40
AG2031 (E)	28	33	34	44
AG2535	29	33	35	44
E11128T	28	31	33	40
E14852	28	33	33	43
E15079T	31	36	36	45
E15165T	23	31	32	38
E15346T	28	34	34	44
HM14-G047	34	33	39	44
HM14-W070	32	33	42	45
LD13-13228R1a	32	37	34	45
LD13-13334R1a	36	38	38	49
LD13-13478R1a	36	36	37	47
LD13-14071R2	29	31	36	43
M10-238-2025	35	40	38	49
M10-238-2098	35	40	38	46
M10-238-2100	37	37	38	46

UNIFORM TEST II ROUNDUP READY, 2017

SEED SIZE (g/100)

Strain	Mean 6 Tests	Pontiac IL	Urbana IL	Wanatah IN	West Lafayette IN
IA2102 (II)	16.9	18.2	14.3	16.2	16.2
LD02-4485 (SCN)	15.9	16.1	14.5	14.4	15.7
LD12-15246 R2a	15.8	16.6	14.8	15.2	15.6
AG2031 (E)	17.8	19.3	15.7	18.7	13.7
AG2535	16.8	17.2	15.0	15.7	15.7
E11128T	21.4	21.9	18.8	20.7	20.7
E14852	17.5	18.4	15.8	16.7	16.7
E15079T	20.4	22.0	17.6	19.2	18.2
E15165T	22.1	23.4	19.0	22.1	21.6
E15346T	18.5	20.5	15.4	17.5	18.1
HM14-G047	16.7	17.6	16.5	15.3	15.9
HM14-W070	17.5	18.6	17.1	16.6	16.8
LD13-13228R1a	14.4	14.7	12.6	13.5	13.9
LD13-13334R1a	15.7	15.4	16.0	13.9	16.7
LD13-13478R1a	15.9	16.4	14.8	14.5	15.1
LD13-14071R2	15.8	17.2	15.3	14.3	15.5
M10-238-2025	17.8	18.7	16.3	16.5	16.9
M10-238-2098	16.6	17.4	15.1	15.3	16.4
M10-238-2100	17.5	19.0	17.3	16.5	15.4

UNIFORM TEST II ROUNDUP READY, 2017

SEED QUALITY (score)

Strain	Mean 6 Tests	Pontiac IL	Urbana IL	Wanatah IN	West Lafayette IN
IA2102 (II)	1.3	2.0	1.0	1.0	1.0
LD02-4485 (SCN)	1.3	2.0	2.0	1.0	1.0
LD12-15246 R2a	1.2	2.0	1.0	1.0	1.0
AG2031 (E)	1.2	1.0	2.0	1.0	1.0
AG2535	1.3	2.0	2.0	1.0	1.0
E11128T	1.3	2.0	2.0	1.0	1.0
E14852	1.4	2.0	2.0	1.0	1.5
E15079T	1.3	2.0	2.0	1.0	1.0
E15165T	1.2	2.0	1.0	1.0	1.0
E15346T	1.3	2.0	2.0	1.0	1.0
HM14-G047	1.2	1.0	1.0	1.0	1.0
HM14-W070	1.3	1.0	2.0	1.0	1.0
LD13-13228R1a	1.0	1.0	1.0	1.0	1.0
LD13-13334R1a	1.3	2.0	2.0	1.0	1.0
LD13-13478R1a	1.0	1.0	1.0	1.0	1.0
LD13-14071R2	1.3	2.0	2.0	1.0	1.0
M10-238-2025	1.4	2.0	2.0	1.0	1.5
M10-238-2098	1.8	2.0	2.0	1.0	1.5
M10-238-2100	1.3	1.0	2.0	1.0	1.0

UNIFORM TEST II ROUNDUP READY, 2017

SEED SIZE (g/100)

Strain	Britton MI	East Lansing MI	Lamberton MN	Waseca MN
IA2102 (II)			18.1	18.4
LD02-4485 (SCN)			16.3	18.2
LD12-15246 R2a			16.7	15.9
AG2031 (E)			18.7	20.5
AG2535			19.0	18.2
E11128T			22.9	23.7
E14852			18.9	18.3
E15079T			23.1	22.2
E15165T			24.6	21.9
E15346T			19.0	20.5
HM14-G047			17.1	18.1
HM14-W070			17.7	18.2
LD13-13228R1a			15.3	16.4
LD13-13334R1a			16.3	16.2
LD13-13478R1a			16.6	18.0
LD13-14071R2			16.3	16.3
M10-238-2025			19.5	18.8
M10-238-2098			18.0	17.5
M10-238-2100			18.2	18.9

UNIFORM TEST II ROUNDUP READY, 2017

SEED QUALITY (score)

Strain	Britton MI	East Lansing MI	Lamberton MN	Waseca MN
IA2102 (II)			1.0	2.0
LD02-4485 (SCN)			1.0	1.0
LD12-15246 R2a			1.0	1.0
AG2031 (E)			1.0	1.0
AG2535			1.0	1.0
E11128T			1.0	1.0
E14852			1.0	1.0
E15079T			1.0	1.0
E15165T			1.0	1.0
E15346T			1.0	1.0
HM14-G047			2.0	1.0
HM14-W070			2.0	1.0
LD13-13228R1a			1.0	1.0
LD13-13334R1a			1.0	1.0
LD13-13478R1a			1.0	1.0
LD13-14071R2			1.0	1.0
M10-238-2025			1.0	1.0
M10-238-2098			3.0	1.0
M10-238-2100			2.0	1.0

UNIFORM TEST II ROUNDUP READY, 2017

FATTY ACID, PALMITIC (%)

Strain	Mean 6 Tests	Pontiac IL	Urbana IL	West Lafayette IN	East Lansing MI
IA2102 (II)	11.5	11.4	11.7	11.7	11.1
LD02-4485 (SCN)	11.3	11.6	11.2	11.3	11.0
LD12-15246 R2a	11.2	11.0	11.6	11.5	10.8
AG2031 (E)	10.5	10.6	10.4	10.9	10.1
AG2535	10.9	11.3	10.9	11.2	10.2
E14852	4.9	4.9	4.8	5.0	4.8
M10-238-2025	9.4	9.2	10.4	10.0	8.1
M10-238-2098	9.7	8.8	10.5	9.8	10.0
M10-238-2100	9.1	9.3	8.6	9.7	7.9

UNIFORM TEST II ROUNDUP READY, 2017

FATTY ACID, STEARIC (%)

Strain	Mean 6 Tests	Pontiac IL	Urbana IL	West Lafayette IN	East Lansing MI
IA2102 (II)	4.7	4.4	4.6	4.4	5.4
LD02-4485 (SCN)	4.8	4.5	4.5	4.5	6.1
LD12-15246 R2a	4.8	4.7	5.4	4.2	5.2
AG2031 (E)	4.2	3.8	4.4	4.2	4.7
AG2535	5.1	4.4	5.6	4.9	6.0
E14852	3.8	3.6	4.1	3.7	4.1
M10-238-2025	3.5	3.4	3.7	3.5	3.8
M10-238-2098	4.0	3.7	4.0	3.8	4.7
M10-238-2100	3.8	3.4	3.9	4.2	4.0

UNIFORM TEST II ROUNDUP READY, 2017

FATTY ACID, OLEIC (%)

Strain	Mean 6 Tests	Pontiac IL	Urbana IL	West Lafayette IN	East Lansing MI
IA2102 (II)	20.5	18.3	22.3	19.4	19.0
LD02-4485 (SCN)	21.2	20.4	23.2	19.6	23.3
LD12-15246 R2a	21.3	21.1	22.6	20.2	19.8
AG2031 (E)	21.1	19.3	24.6	19.3	19.8
AG2535	22.3	18.8	23.5	21.2	23.5
E14852	83.3	84.3	84.9	83.0	82.6
M10-238-2025	42.0	47.7	39.7	33.7	53.2
M10-238-2098	33.6	51.3	26.6	32.5	24.4
M10-238-2100	55.5	55.1	67.1	44.9	71.6

UNIFORM TEST II ROUNDUP READY, 2017**FATTY ACID, PALMITIC (%)**

Strain	Lamberton MN	Waseca MN
IA2102 (II)	11.6	10.9
LD02-4485 (SCN)	11.4	11.4
LD12-15246 R2a	11.1	10.9
AG2031 (E)	10.4	10.6
AG2535	11.2	10.5
E14852	4.8	5.1
M10-238-2025	9.3	9.7
M10-238-2098	9.5	10.3
M10-238-2100	10.1	9.5

UNIFORM TEST II ROUNDUP READY, 2017**FATTY ACID, STEARIC (%)**

Strain	Lamberton MN	Waseca MN
IA2102 (II)	4.8	5.0
LD02-4485 (SCN)	4.3	4.5
LD12-15246 R2a	4.5	4.5
AG2031 (E)	3.8	4.2
AG2535	4.9	4.6
E14852	3.6	3.8
M10-238-2025	3.4	3.4
M10-238-2098	3.6	4.1
M10-238-2100	3.6	3.6

UNIFORM TEST II ROUNDUP READY, 2017**FATTY ACID, OLEIC (%)**

Strain	Lamberton MN	Waseca MN
IA2102 (II)	21.1	22.7
LD02-4485 (SCN)	19.9	21.1
LD12-15246 R2a	21.5	22.7
AG2031 (E)	20.4	23.0
AG2535	22.2	24.6
E14852	83.2	81.9
M10-238-2025	42.1	35.4
M10-238-2098	33.3	33.6
M10-238-2100	44.1	50.4

UNIFORM TEST II ROUNDUP READY, 2017**FATTY ACID, LINOLEIC (%)**

Strain	Mean 6 Tests	Pontiac IL	Urbana IL	West Lafayette IN	East Lansing MI
IA2102 (II)	53.6	55.5	52.9	54.5	54.0
LD02-4485 (SCN)	52.9	53.7	52.9	54.4	49.7
LD12-15246 R2a	53.8	54.6	53.1	55.2	54.4
AG2031 (E)	55.2	56.8	53.0	56.6	56.1
AG2535	53.2	56.0	52.9	54.5	52.4
E14852	6.9	6.1	5.2	6.9	7.5
M10-238-2025	36.6	31.7	39.1	44.4	26.0
M10-238-2098	44.1	28.9	51.5	45.7	51.2
M10-238-2100	24.2	24.8	14.8	33.8	9.5

UNIFORM TEST II ROUNDUP READY, 2017**FATTY ACID, LINOLENIC (%)**

Strain	Mean 6 Tests	Pontiac IL	Urbana IL	West Lafayette IN	East Lansing MI
IA2102 (II)	9.8	10.5	8.5	9.9	10.6
LD02-4485 (SCN)	9.8	9.9	8.2	10.2	9.8
LD12-15246 R2a	9.0	8.7	7.4	8.8	9.8
AG2031 (E)	9.0	9.5	7.6	9.0	9.3
AG2535	8.6	9.5	7.2	8.3	7.9
E14852	1.1	1.0	1.0	1.4	1.1
M10-238-2025	8.4	8.0	7.1	8.3	8.8
M10-238-2098	8.5	7.4	7.4	8.3	9.7
M10-238-2100	7.3	7.4	5.6	7.5	7.1

UNIFORM TEST II ROUNDUP READY, 2017

FATTY ACID, LINOLEIC (%)

Strain	Lamberton MN	Waseca MN
IA2102 (II)	52.6	51.9
LD02-4485 (SCN)	53.9	52.9
LD12-15246 R2a	53.4	52.2
AG2031 (E)	55.9	52.8
AG2535	53.0	50.2
E14852	7.5	8.1
M10-238-2025	36.3	42.4
M10-238-2098	44.7	42.6
M10-238-2100	34.1	28.3

UNIFORM TEST II ROUNDUP READY, 2017

FATTY ACID, LINOLENIC (%)

Strain	Lamberton MN	Waseca MN
IA2102 (II)	10.0	9.6
LD02-4485 (SCN)	10.5	10.1
LD12-15246 R2a	9.5	9.8
AG2031 (E)	9.5	9.4
AG2535	8.7	10.1
E14852	1.0	1.1
M10-238-2025	9.0	9.0
M10-238-2098	8.9	9.4
M10-238-2100	8.1	8.3

UNIFORM TEST II ROUNDUP READY, 2017

Strain	PROTEIN (%) - NIR							PROTEIN (%) - LECO				
	Mean 6 Tests	Pontiac IL	Urbana IL	Wanatah IN	West Laf IN	Lamber- ton MN	Waseca MN	Pontiac IL	Urbana IL	West Laf IN	Lamber- ton MN	Waseca MN
IA2102 (II)	34.0	34.0	32.7	35.0	32.5	34.1	35.7					
LD02-4485 (SCN)	32.6	32.3	31.5	32.9	32.6	32.0	33.9					
LD12-15246 R2a	34.0	33.2	32.8	32.5	33.1	35.4	36.7					
AG2031 (E)	34.7	34.4	35.9	34.6	33.0	34.0	36.5					
AG2535	33.4	33.5	31.7	33.4	33.5	33.9	34.5					
E11128T	36.1	37.3	36.0	37.8	37.3	38.2	30.1	37.2	35.9	37.5	37.9	39.2
E14852	36.4	37.1	34.7	35.2	36.1	37.0	38.2	36.4	34.2	35.3	36.6	36.8
E15079T	36.4	36.1	36.0	37.1	32.9	38.1	38.1	34.7	36.5	35.2	37.9	38.1
E15165T	38.5	38.1	38.0	37.6	38.9	39.5	38.9	36.8	36.6	39.8	40.0	37.6
E15346T	33.8	33.0	32.8	33.6	33.6	34.0	35.7	32.0	33.1	32.7	34.3	34.6
HM14-G047	36.3	36.8	36.6	35.1	37.3	34.6	37.4	36.5	35.5	37.0	35.1	36.4
HM14-W070	36.1	37.3	35.4	35.3	35.5	34.6	38.4	36.0	36.1	36.6	34.5	36.8
LD13-13228R1a	32.1	31.8	30.6	31.5	32.7	32.3	33.5					
LD13-13334R1a	32.9	33.1	31.0	32.8	33.7	32.6	34.3					
LD13-13478R1a	33.0	32.4	32.4	31.5	33.2	34.1	34.7					
LD13-14071R2	33.9	33.4	32.6	33.2	34.6	33.9	35.9					
M10-238-2025	36.8	36.6	37.4	37.0	34.0	36.7	38.9	36.3	36.8	35.9	35.5	37.2
M10-238-2098	34.5	33.6	33.8	33.9	34.0	35.3	36.4	33.6	34.2	34.0	34.9	34.4
M10-238-2100	37.2	36.9	36.0	36.3	37.8	37.3	38.8	35.1	35.4	36.1	37.3	37.2

UNIFORM TEST II ROUNDUP READY, 2017

OIL (%)

Strain	Mean 6 Tests	Pontiac IL	Urbana IL	Wanatah IN	West Laf IN	Lamber- ton MN	Waseca MN
IA2102 (II)	18.4	18.2	20.1	17.9	19.0	18.2	17.2
LD02-4485 (SCN)	18.9	18.8	20.6	18.6	18.8	18.6	18.1
LD12-15246 R2a	18.5	18.8	19.9	18.6	19.1	17.7	17.1
AG2031 (E)	18.7	18.8	20.0	19.2	19.1	17.8	17.4
AG2535	18.9	18.6	20.6	18.6	18.9	18.5	18.0
E11128T	17.5	17.0	18.7	16.6	17.1	16.1	19.6
E14852	17.2	16.5	18.6	17.2	17.8	17.0	16.4
E15079T	17.5	17.7	18.7	17.1	18.6	16.6	16.3
E15165T	17.2	17.6	18.5	17.4	17.0	16.6	15.9
E15346T	19.0	18.9	20.7	18.9	19.1	18.5	17.9
HM14-G047	17.4	17.4	18.7	17.5	17.4	17.2	16.4
HM14-W070	18.2	17.8	19.4	18.1	18.7	18.6	16.6
LD13-13228R1a	19.5	19.3	21.3	19.2	19.5	19.7	18.2
LD13-13334R1a	19.3	19.1	20.8	18.9	19.5	19.1	18.4
LD13-13478R1a	19.4	19.4	20.5	19.7	19.4	19.1	18.3
LD13-14071R2	18.5	18.4	20.2	18.6	18.3	18.2	17.3
M10-238-2025	16.8	17.1	17.7	16.7	17.0	16.7	15.6
M10-238-2098	19.1	19.2	20.5	18.8	19.5	18.6	18.2
M10-238-2100	17.3	17.2	19.0	17.4	17.3	16.5	16.3

UNIFORM TEST III Roundup-Ready, 2017

Ent.	Strain	Parentage	Seed Source	Previous Testing	Gen. Comp.	Unique Traits	Germ. %	Sd. Wt. g/100
1	LD11-2170 (III)	Syngenta 03JR313108 x LD05-3171	Diers	2	F5	SCN	94	15.3
2	LD07-3395bf (SCN)	LD07-3395 Reselection	Diers	2	F5	SCN	88	15.4
3	AG3334		Monsanto	2			91	18.0
4	AG3832		Monsanto	8		RR, SCN	96	17.2
5	HM11-H015	HS1-3661 x Wyandot	McHale	Initial	F4	QT-High Oil	92	17.9
6	HM11-H016	HS1-3661 x Wyandot	McHale	Initial	F4	QT-High Oil	93	18.5
7	HM14-C033	HS8-6390 x HS6-3971-R	McHale	Initial	F4	QT-> 50% Meal	95	17.3
8	HM14-E042	HS8-6348 x HS6-3973A	McHale	Initial	F4	QT-High Oil	94	16.2
9	HM14-E087	Ohio FG5 x HS8W-102	McHale	Initial	F4	QT-> 50% Meal	96	21.8
10	HM14-W146	HM09-W133 x HS7W-190	McHale	Initial	F4	QT-> 50% Meal	96	16.4
11	LD13-14525R2	LD09-17254R2 x LD06-7596	Diers	1	F5		92	14.5
12	LD14-13590R2a	LD09-17213R2 x LD08-12446a	Diers	Initial	F5	RR2, SCN, Aphid Rag2	94	15.1
13	LD14-14172R2	LD09-17213R2 x WN0800527	Diers	Initial	F5	RR2, SCN	96	14.9
14	LD14-14308R2	LD07-4477 x LD09-17071R2	Diers	Initial	F5	RR2, SCN	94	17.0
15	SA13-4268RR	K07-1633 x S10-3190RR2	Scaboo	1	F4		90	15.6
16	SA13-4420RR	LS07-3125 x S10-1999RR2	Scaboo	1	F4		93	14.8
17	SA13-4434RR	LS07-3125 x S10-1999RR2	Scaboo	1	F4		89	16.4

UNIFORM TEST III ROUNDUP READY, 2017

DESCRIPTIVE DATA

Strain	Descriptive Code
LD11-2170 (III)	PLtBDYBrI
LD07-3395bf (SCN)	WGTIYBfI
AG3334	PGTDYLdibI
AG3832	PGTDYLbI
HM11-H015	WT+GTSYYI
HM11-H016	WT+GB+TSYYI
HM14-C033	WTTSYBI
HM14-E042	PGTIYBI
HM14-E087	PTTIYYI
HM14-W146	PTBSYYI
LD13-14525R2	P+WLtTSYBI
LD14-13590R2a	WTBIYBrI
LD14-14172R2	WLtTSYBI
LD14-14308R2	PGTIYDibI
SA13-4268RR	WTTDYBI
SA13-4420RR	PGTDYDibI
SA13-4434RR	WGTIYBrI

UNIFORM TEST III ROUNDUP READY, 2017

REGIONAL SUMMARY

No. of Tests Strain	Yield 8 bu/a	Rank 8 No.	Maturity 8 Date	Lodging 8 Score	Plant Height 8 In.	Seed Size 8 g/100	Seed Quality 8 Score	Composition	
								Protein 7 %	Oil 7 %
LD11-2170 (III)	69.0	3	9/21	1.5	30	15.8	1.2	33.4	20.1
LD07-3395bf (SCN)	67.3	4	5.8	1.2	31	16.2	1.4	31.7	20.3
AG3334	71.0	1	3.3	1.3	36	17.2	1.3	35.0	18.2
AG3832	70.3	2	5.8	1.2	34	17.4	1.4	34.6	18.4
HM11-H015	59.1	16	0.7	1.4	35	17.5	1.4	32.7	20.6
HM11-H016	59.6	15	1.8	1.6	35	17.8	1.4	33.7	20.4
HM14-C033	60.6	13	1.4	1.4	37	17.0	1.3	35.9	18.9
HM14-E042	59.9	14	0.0	1.4	35	15.0	1.3	34.3	19.6
HM14-E087	55.1	17	3.1	2.0	34	20.1	1.4	36.0	18.2
HM14-W146	62.4	11	2.2	1.7	35	16.6	1.4	35.9	18.9
LD13-14525R2	64.4	7	1.5	1.4	37	14.9	1.3	33.7	19.4
LD14-13590R2a	63.1	10	4.2	1.4	31	15.0	1.3	32.9	19.9
LD14-14172R2	66.2	6	6.8	1.3	35	15.2	1.3	33.3	19.2
LD14-14308R2	64.3	8	6.2	1.2	34	16.7	1.3	34.9	19.5
SA13-4268RR	66.4	5	4.8	1.5	36	13.7	1.4	34.0	18.0
SA13-4420RR	63.9	9	6.0	1.2	37	12.6	1.3	33.6	19.1
SA13-4434RR	62.3	12	7.5	1.2	35	14.1	1.3	34.1	18.6
Mean	63.7		29.1	1.4	34.5	16.0	1.3		
C.V. (%)	7.4		6.2	29.6	7.6	5.7	23.3		
L.S.D. (5%)	2.4		0.9	0.2	1.3	0.7	0.2		

117.6 Days After Planting

UNIFORM TEST III ROUNDUP READY, 2017

2016-2017 2-YEAR MEAN

No. of Tests Strain	Yield 18 bu/a	Rank 18 No.	Maturity* 18 Date	Lodging 18 Score	Plant Height 17 In.	Seed Size 18 g/100	Seed Quality 18 Score	Composition	
								Protein 12 %	Oil 12 %
AG3334	74.8	1		1.4	38	17.2	1.4	35.0	18.2
AG3832	73.6	2		1.3	36	17.3	1.5	34.6	18.4
LD13-14525R2	70.4	3		1.9	39	15.1	1.5	33.7	19.4
SA13-4268RR	69.9	4		2.3	38	13.9	1.3	34.0	18.0
SA13-4420RR	67.9	5		1.3	40	12.9	1.4	33.6	19.1
SA13-4434RR	67.0	6		1.3	38	14.4	1.4	34.1	18.6

122.2 Days After Planting

*No Reference Check to calculate maturities

UNIFORM TEST III ROUNDUP READY, 2017

YIELD (bu/a)

Strain	Mean 8 Tests	Arthur IL	Urbana IL	Butler- ville IN	Wanatah IN	West Lafayette IN	Albany MO	Novelty MO	Stevens Creek NE
LD11-2170 (III)	69.0	75.7	67.7	57.8	62.2	70.5	70.2	69.5	78.1
LD07-3395bf (SCN)	67.3	75.1	58.3	61.2	60.1	74.0	74.5	65.0	69.9
AG3334	71.0	75.1	70.2	68.6	64.1	72.8	73.8	61.6	81.7
AG3832	70.3	73.6	57.5	67.6	61.8	75.2	72.9	73.5	80.0
HM11-H015	59.1	61.0	52.2	55.6	54.3	59.0	59.5	61.5	70.0
HM11-H016	59.6	64.3	55.7	56.8	52.7	56.5	61.6	61.0	67.9
HM14-C033	60.6	70.0	53.2	56.6	56.6	58.5	60.2	58.5	71.0
HM14-E042	59.9	64.6	48.2	53.8	52.5	65.4	60.7	63.1	71.2
HM14-E087	55.1	52.5	54.0	54.2	44.8	59.4	59.0	57.3	59.8
HM14-W146	62.4	70.3	58.9	59.4	55.5	62.0	62.3	63.0	67.8
LD13-14525R2	64.4	71.9	61.8	54.5	63.0	64.9	67.0	65.1	66.9
LD14-13590R2a	63.1	67.2	54.6	50.5	59.8	70.7	65.4	59.7	77.0
LD14-14172R2	66.2	73.9	66.3	53.2	59.8	71.3	70.8	64.5	70.0
LD14-14308R2	64.3	70.0	59.2	59.1	59.9	73.2	64.5	59.5	69.2
SA13-4268RR	66.4	71.8	63.4	53.7	58.9	67.4	72.2	65.9	77.5
SA13-4420RR	63.9	66.8	48.6	62.4	53.6	67.9	71.7	66.2	74.4
SA13-4434RR	62.3	69.0	57.7	55.4	53.1	66.6	66.5	60.3	69.4
Location Mean		69.0	58.1	57.7	57.2	66.8	66.6	63.2	71.9
C.V. (%)		6.5	9.0	6.1	5.1	4.0	6.5	8.0	7.4
L.S.D. (5%)		6.9	11.1	4.9	4.0	3.7	7.2	8.4	11.3
Row sp. (In.)		30	30	30	30	30	30	30	30
Rows/Plot		4	4	4	4	4	4	4	4
Reps		2	2	3	3	3	3	3	2

UNIFORM TEST III ROUNDUP READY, 2017

YIELD RANK

Strain	Yield Rank	Arthur IL	Urbana IL	Butler-ville IN	Wanatah IN	West Lafayette IN	Albany MO	Novelty MO	Stevens Creek NE
LD11-2170 (III)	3	1	2	7	3	7	7	2	3
LD07-3395bf (SCN)	4	2	8	4	5	2	1	6	11
AG3334	1	2	1	1	1	4	2	10	1
AG3832	2	5	10	2	4	1	3	1	2
HM11-H015	16	16	15	10	12	15	16	11	10
HM11-H016	15	15	11	8	15	17	13	12	14
HM14-C033	13	9	14	9	10	16	15	16	8
HM14-E042	14	14	17	14	16	11	14	8	7
HM14-E087	17	17	13	13	17	14	17	17	17
HM14-W146	11	8	7	5	11	13	12	9	15
LD13-14525R2	7	6	5	12	2	12	8	5	16
LD14-13590R2a	10	12	12	17	7	6	10	14	5
LD14-14172R2	6	4	3	16	7	5	6	7	9
LD14-14308R2	8	9	6	6	6	3	11	15	13
SA13-4268RR	5	7	4	15	9	9	4	4	4
SA13-4420RR	9	13	16	3	13	8	5	3	6
SA13-4434RR	12	11	9	11	14	10	9	13	12

UNIFORM TEST III ROUNDUP READY, 2017

MATURITY (date)

Strain	Mean 8 Tests	Arthur IL	Urbana IL	Butler-ville IN	Wanatah IN	West Lafayette IN	Albany MO	Novelty MO	Stevens Creek NE
LD11-2170 (III)	9/21	9/18	9/14	9/27	10/4	9/30	9/26	9/19	9/1
LD07-3395bf (SCN)	6	5	6	8	5	9	3	7	4
AG3334	3	2	5	3	3	7	3	3	0
AG3832	6	5	9	8	4	5	4	7	4
HM11-H015	1	-3	0	0	1	5	3	0	-1
HM11-H016	2	0	2	1	4	5	3	1	-1
HM14-C033	1	-1	4	1	3	4	2	1	-3
HM14-E042	0	-2	0	0	0	3	2	1	-3
HM14-E087	3	2	4	5	1	6	3	2	2
HM14-W146	2	1	5	3	1	6	2	1	-1
LD13-14525R2	2	2	5	0	0	4	2	2	-3
LD14-13590R2a	4	3	8	4	-1	7	4	5	4
LD14-14172R2	7	8	11	5	6	9	5	8	2
LD14-14308R2	6	8	10	7	5	4	5	8	3
SA13-4268RR	5	5	8	3	5	6	4	5	3
SA13-4420RR	6	6	9	8	6	7	4	4	4
SA13-4434RR	7	5	10	11	6	11	5	8	4
Date Planted	5/26	5/17	5/15	6/6	5/30	6/2	6/2	5/16	5/31
Days to Mature	118	124	122	113	127	120	116	126	93

UNIFORM TEST III ROUNDUP READY, 2017

LODGING (score)

Strain	Mean 8 Tests	Arthur IL	Urbana IL	Butler- ville IN	Wanatah IN	West Lafayette IN	Albany MO	Novelty MO	Stevens Creek NE
LD11-2170 (III)	1.5	1.3	1.0	1.0	1.0	1.8	1.7	1.5	2.5
LD07-3395bf (SCN)	1.2	1.3	1.0	1.0	1.0	1.0	1.8	1.2	1.0
AG3334	1.3	1.3	1.0	1.0	1.0	1.2	1.5	1.7	2.0
AG3832	1.2	1.0	1.0	1.0	1.0	1.3	1.5	1.2	1.5
HM11-H015	1.4	1.8	1.0	1.0	1.0	1.8	2.2	1.3	1.5
HM11-H016	1.6	2.3	1.0	1.0	1.0	2.0	2.8	1.5	1.5
HM14-C033	1.4	1.5	1.0	1.5	1.0	1.5	2.2	1.5	1.0
HM14-E042	1.4	2.3	1.0	1.3	1.0	1.3	2.3	1.3	1.0
HM14-E087	2.0	2.8	1.8	1.0	1.3	1.8	3.5	1.7	2.0
HM14-W146	1.7	2.8	1.0	1.3	1.0	1.8	3.2	1.3	1.0
LD13-14525R2	1.4	2.0	1.3	1.0	1.0	1.5	2.2	1.5	1.0
LD14-13590R2a	1.4	1.5	1.0	1.0	1.0	1.5	1.3	1.7	2.0
LD14-14172R2	1.3	2.0	1.0	1.0	1.0	1.7	1.7	1.0	1.0
LD14-14308R2	1.2	1.0	1.0	1.0	1.0	1.0	1.3	1.5	2.0
SA13-4268RR	1.5	2.5	1.0	1.0	1.0	1.0	2.3	1.5	2.0
SA13-4420RR	1.2	1.3	1.0	1.0	1.0	1.0	1.5	1.5	1.0
SA13-4434RR	1.2	1.5	1.0	1.0	1.0	1.0	1.5	1.3	1.5

UNIFORM TEST III ROUNDUP READY, 2017

PLANT HEIGHT (inches)

Strain	Mean 8 Tests	Arthur IL	Urbana IL	Butler- ville IN	Wanatah IN	West Lafayette IN	Albany MO	Novelty MO	Stevens Creek NE
LD11-2170 (III)	30	40	30	24	22	31	31	26	34
LD07-3395bf (SCN)	31	38	28	27	31	32	31	27	38
AG3334	36	43	37	30	34	36	37	30	43
AG3832	34	41	32	29	33	33	35	26	40
HM11-H015	35	43	36	25	39	35	35	32	39
HM11-H016	35	40	35	27	38	34	35	32	43
HM14-C033	37	43	38	30	36	36	37	31	43
HM14-E042	35	41	34	30	39	34	36	32	39
HM14-E087	34	37	33	26	36	32	35	30	39
HM14-W146	35	42	35	29	38	34	36	31	38
LD13-14525R2	37	46	37	30	39	36	36	31	38
LD14-13590R2a	31	36	29	27	34	32	29	27	37
LD14-14172R2	35	43	34	29	37	35	36	28	41
LD14-14308R2	34	38	30	28	38	37	31	28	40
SA13-4268RR	36	44	37	28	38	36	36	28	41
SA13-4420RR	37	44	34	30	40	38	38	31	43
SA13-4434RR	35	41	32	29	38	36	35	30	42

UNIFORM TEST III ROUNDUP READY, 2017

SEED SIZE (g/100)

Strain	Mean 8 Tests	Arthur IL	Urbana IL	Butler- ville IN	Wanatah IN	West Lafayette IN	Albany MO	Novelty MO	Stevens Creek NE
LD11-2170 (III)	15.8	15.5	16.2	14.8	14.7	16.6	16.6	16.0	15.8
LD07-3395bf (SCN)	16.2	16.1	15.7	16.2	15.2	17.2	17.1	16.4	15.7
AG3334	17.2	17.3	18.6	16.5	16.0	17.8	18.1	17.8	15.7
AG3832	17.4	16.5	17.8	18.4	16.0	17.9	17.7	18.3	16.4
HM11-H015	17.5	16.8	17.6	17.8	15.2	17.8	19.3	18.2	17.0
HM11-H016	17.8	18.1	17.7	17.4	16.8	17.0	19.2	19.4	16.6
HM14-C033	17.0	16.2	17.2	16.9	16.4	17.8	17.6	17.8	16.4
HM14-E042	15.0	14.7	14.6	15.4	13.0	14.8	16.2	16.3	15.2
HM14-E087	20.1	19.0	19.3	21.0	19.1	21.8	20.7	20.3	19.7
HM14-W146	16.6	15.7	17.4	15.4	15.9	17.8	17.2	17.1	16.6
LD13-14525R2	14.9	14.6	15.5	14.2	14.0	15.4	15.7	15.1	14.6
LD14-13590R2a	15.0	13.7	15.0	14.4	14.6	17.4	15.2	15.3	14.2
LD14-14172R2	15.2	13.7	15.4	14.8	14.1	16.2	17.1	16.2	14.1
LD14-14308R2	16.7	16.0	18.0	16.4	15.8	18.1	17.4	16.8	14.8
SA13-4268RR	13.7	13.0	13.7	13.6	12.5	14.1	15.0	14.7	13.3
SA13-4420RR	12.6	12.1	12.5	12.8	11.7	13.3	12.6	13.7	12.3
SA13-4434RR	14.1	13.4	15.0	13.4	12.9	14.8	15.4	15.2	12.9

UNIFORM TEST III ROUNDUP READY, 2017

SEED QUALITY (score)

Strain	Mean 8 Tests	Arthur IL	Urbana IL	Butler- ville IN	Wanatah IN	West Lafayette IN	Albany MO	Novelty MO	Stevens Creek NE
LD11-2170 (III)	1.2	1.0	2.0	1.0	1.0	1.0	1.0	1.5	1.0
LD07-3395bf (SCN)	1.4	1.0	3.0	1.0	1.0	1.0	1.5	1.5	1.0
AG3334	1.3	1.0	2.0	1.0	1.0	1.0	1.5	1.5	1.0
AG3832	1.4	1.0	2.0	1.0	1.0	1.0	1.5	1.5	2.0
HM11-H015	1.4	2.0	2.0	1.0	1.0	1.0	1.0	1.5	2.0
HM11-H016	1.4	2.0	2.0	1.0	1.0	1.0	1.5	1.0	2.0
HM14-C033	1.3	1.0	2.0	1.0	1.0	1.0	1.5	1.5	1.0
HM14-E042	1.3	1.0	2.0	1.0	1.0	1.0	1.5	1.5	1.0
HM14-E087	1.4	2.0	2.0	1.0	1.0	1.0	1.5	1.5	1.5
HM14-W146	1.4	1.0	2.0	1.0	1.0	1.0	2.0	1.5	2.0
LD13-14525R2	1.3	1.0	2.0	1.0	1.0	1.0	1.5	1.5	1.5
LD14-13590R2a	1.3	1.0	2.0	1.0	1.0	1.0	1.5	1.5	1.0
LD14-14172R2	1.3	1.0	1.0	1.0	1.0	1.0	1.5	2.0	2.0
LD14-14308R2	1.3	1.0	2.0	1.0	1.0	1.0	1.5	1.5	1.0
SA13-4268RR	1.4	1.0	2.0	1.0	1.0	1.0	1.5	1.5	2.0
SA13-4420RR	1.3	1.0	2.0	1.0	1.0	1.0	1.5	1.5	1.0
SA13-4434RR	1.3	1.0	2.0	1.0	1.0	1.0	1.5	1.5	1.0

UNIFORM TEST III ROUNDUP READY, 2017

PROTEIN (%)

Strain	Mean 7 Tests	Arthur IL	Urbana IL	Butler- ville IN	West Laf IN	Albany MO	Novelty MO	Steven's Creek NE
LD11-2170 (III)	33.4	32.1	32.7	34.7	35.1	32.7	31.7	34.7
LD07-3395bf (SCN)	31.7	29.8	31.0	32.3	34.0	32.4	30.3	32.2
AG3334	35.0	34.0	35.3	35.2	34.8	35.1	34.7	35.7
AG3832	34.6	33.0	33.8	35.2	35.6	35.1	34.3	35.5
HM11-H015	32.7	32.1	33.3	34.0	29.6	33.5	31.8	34.8
HM11-H016	33.7	31.9	33.3	35.0	31.7	35.3	33.1	35.5
HM14-C033	35.9	34.7	36.1	37.9	34.1	35.9	35.1	37.2
HM14-E042	34.3	33.2	33.8	36.2	35.1	33.9	32.7	35.3
HM14-E087	36.0	35.6	35.0	36.6	37.9	33.5	34.5	38.8
HM14-W146	35.9	34.9	35.9	36.5	36.3	35.1	34.9	37.9
LD13-14525R2	33.7	32.6	33.0	34.2	33.7	34.5	32.8	35.4
LD14-13590R2a	32.9	32.8	32.7	33.2	33.1	32.5	32.4	33.6
LD14-14172R2	33.3	31.1	32.4	34.8	33.7	33.8	32.9	34.4
LD14-14308R2	34.9	33.8	34.4	35.9	35.9	34.3	34.7	35.5
SA13-4268RR	34.0	32.2	33.5	34.4	34.3	33.5	34.8	35.1
SA13-4420RR	33.6	32.0	33.4	33.7	34.6	33.2	32.9	35.3
SA13-4434RR	34.1	32.2	33.1	34.5	35.3	34.5	33.7	35.7

UNIFORM TEST III ROUNDUP READY, 2017

OIL (%)

Strain	Mean 7 Tests	Arthur IL	Urbana IL	Butler- ville IN	West Laf IN	Albany MO	Novelty MO	Steven's Creek NE
LD11-2170 (III)	20.1	20.0	20.6	20.2	19.2	20.2	21.3	19.5
LD07-3395bf (SCN)	20.3	21.0	21.1	20.3	17.2	20.6	21.6	20.0
AG3334	18.2	18.3	18.4	18.1	17.9	18.2	18.7	18.0
AG3832	18.4	18.6	18.5	18.3	17.6	18.4	19.0	18.2
HM11-H015	20.6	20.7	20.9	19.8	21.0	20.4	21.5	19.7
HM11-H016	20.4	20.6	20.4	20.5	20.4	20.0	21.4	19.3
HM14-C033	18.9	19.1	19.3	18.5	18.7	18.8	19.9	17.9
HM14-E042	19.6	20.0	20.1	18.8	18.5	19.8	20.9	18.8
HM14-E087	18.2	18.3	18.6	18.3	16.6	19.4	19.1	16.8
HM14-W146	18.9	18.9	19.5	18.8	18.4	18.4	20.0	17.9
LD13-14525R2	19.4	19.6	19.8	19.2	18.6	19.1	20.3	18.9
LD14-13590R2a	19.9	19.8	20.3	19.9	19.2	20.4	20.8	19.2
LD14-14172R2	19.2	19.3	19.8	18.8	18.6	19.5	20.0	18.7
LD14-14308R2	19.5	19.6	19.8	19.3	18.7	19.9	20.0	18.9
SA13-4268RR	18.0	18.2	18.2	18.1	17.5	18.2	18.6	17.5
SA13-4420RR	19.1	19.8	19.3	19.3	18.3	19.8	19.7	17.9
SA13-4434RR	18.6	18.7	19.0	18.8	18.0	18.6	19.1	18.1

UNIFORM TEST IV Roundup-Ready, 2017

Ent.	Strain	Parentage	Seed Source	Previous Testing	Gen. Comp.	Unique Traits	Germ. %	Sd. Wt. g/100
1	LD06-7620 (IV)	IA3023 x LD00- 3309	Diers	6	F5	SCN	94	14.7
2	LD07-3395bf (SCN)	LD07-3395 Reselection	Diers	2	F5	SCN	88	15.4
3	AG3832		Monsanto	5		RR, SCN	96	17.2
4	AG4033 (IV)		Monsanto	2			94	16.2
5	AG4232		Monsanto	4		RR, SCN	91	14.1
6	S14-8943R	LD07-3419 x S08-9727RR1	Chen	Initial		RR1	88	12.4
7	S15-2702	S10-2223 x S05-11482	Chen	Initial		RR2, STS	92	12.8
8	S15-7499	LG10-2695 x S11-8642RR	Chen	Initial		RR1, Nematode, STS, Diversity	83	13.3

UNIFORM TEST IV ROUNDUP READY, 2017

DESCRIPTIVE DATA

Strain	Descriptive Code
LD06-7620 (IV)	PLtBIYBI
LD07-3395bf (SCN)	WGTIYBfI
AG3832	PGTDYLbI
AG4033 (IV)	PTBDYDibI
AG4232	PTBSYBI
S14-8943R	WGTSYLbfi
S15-2702	WGTSYLbfi
S15-7499	WTBSYBI

UNIFORM TEST IV ROUNDUP READY, 2017

REGIONAL SUMMARY

No. of Tests Strain	Yield	Rank	Maturity	Lodging	Plant Height	Seed Size	Seed Quality	Composition	
	7 bu/a	7 No.	6 Date	6 Score	5 In.	6 g/100	6 Score	6 Protein %	6 Oil %
LD06-7620 (IV)	61.5	7	10/1	1.1	31	14.8	1.3	33.7	19.4
LD07-3395bf (SCN)	63.1	5	-3.1	1.4	30	16.3	1.5	31.0	21.0
AG3832	67.1	2	-1.7	1.2	32	17.4	1.3	35.0	18.7
AG4033 (IV)	66.3	3	-0.5	1.1	34	16.0	1.3	35.5	18.3
AG4232	69.3	1	4.8	1.4	39	15.0	1.3	34.0	18.9
S14-8943R	63.6	4	1.1	1.4	32	14.1	1.5	32.5	19.9
S15-2702	61.8	6	1.1	1.4	35	14.8	1.2	33.9	18.8
S15-7499	53.1	8	0.1	1.5	37	14.5	1.4	33.7	18.4
Mean	63.6		33.0	1.4	33.7	15.0	1.5		
C.V. (%)	7.7		5.9	22.5	6.7	4.3	26.3		
L.S.D. (5%)	2.7		1.1	0.2	1.4	0.5	0.3		

127.5 Days After Planting

UNIFORM TEST IV ROUNDUP READY, 2017

YIELD (bu/a)

Strain	Mean 7 Tests	Neoga IL	Urbana IL	Butler- ville IN	West Lafayette IN	Albany MO	Novelty MO	Portageville Loam MO
LD06-7620 (IV)	61.5	55.5	57.7	56.8	72.1	70.1	56.8	
LD07-3395bf (SCN)	63.1	60.3	60.9	59.3	66.2	69.0	62.6	
AG3832	67.1	61.3	66.5	61.2	75.6	75.9	66.4	63.0
AG4033 (IV)	66.3	59.7	68.6	63.1	78.7	70.9	62.5	60.5
AG4232	69.3	55.2	73.2	74.9	76.8	69.5	67.1	68.5
S14-8943R	63.6	51.4	63.1	66.6	71.8	67.4	63.7	61.6
S15-2702	61.8	50.4	59.2	58.4	66.1	73.5	61.8	63.5
S15-7499	53.1	47.2	45.7	55.7	53.1	63.4	55.7	50.8
Location Mean		55.1	61.8	62.0	70.1	70.0	62.1	61.3
C.V. (%)		3.9	6.0	4.8	5.6	6.1	7.1	7.3
L.S.D. (5%)		5.0	8.8	4.2	5.6	7.5	8.4	10.1
Row sp. (In.)		30	30	30	30	30	30	30
Rows/Plot		4	4	4	4	4	4	4
Reps		2	2	3	3	3	3	3

UNIFORM TEST IV ROUNDUP READY, 2017

YIELD RANK

Strain	Yield Rank	Neoga IL	Urbana IL	Butler-ville IN	West Lafayette IN	Albany MO	Novelty MO	Portageville Loam MO
LD06-7620 (IV)	7	4	7	7	4	4	7	
LD07-3395bf (SCN)	5	2	5	5	6	6	4	
AG3832	2	1	3	4	3	1	2	3
AG4033 (IV)	3	3	2	3	1	3	5	5
AG4232	1	5	1	1	2	5	1	1
S14-8943R	4	6	4	2	5	7	3	4
S15-2702	6	7	6	6	7	2	6	2
S15-7499	8	8	8	8	8	8	8	6

UNIFORM TEST IV ROUNDUP READY, 2017

MATURITY (date)

Strain	Mean 6 Tests	Neoga IL	Urbana IL	Butler-ville IN	West Lafayette IN	Albany MO	Novelty MO	Portageville Loam MO
LD06-7620 (IV)	10/1	9/20	9/25	10/10	10/17	10/1	9/28	
LD07-3395bf (SCN)	-3	1	-3	-5	-5	-1	-5	
AG3832	-2	1	0	-6	-3	-1	-2	
AG4033 (IV)	-1	3	1	-5	-1	1	-1	
AG4232	5	7	7	1	2	9	2	
S14-8943R	1	3	3	1	-1	1	0	
S15-2702	1	3	2	1	1	1	-1	
S15-7499	0	4	2	-2	-2	-0	-1	
Date Planted	5/27	5/30	5/15	6/6	6/2	6/2	5/16	
Days to Mature	128	113	133	126	137	121	135	

UNIFORM TEST IV ROUNDUP READY, 2017

LODGING (score)

Strain	Mean 6 Tests	Neoga IL	Urbana IL	Butler- ville IN	West Lafayette IN	Albany MO	Novelty MO	Portageville Loam MO
LD06-7620 (IV)	1.1	1.0	1.0	1.0	1.0	1.5	1.3	
LD07-3395bf (SCN)	1.4	1.5	1.0	1.0	1.5	1.5	1.7	
AG3832	1.2	1.0	1.0	1.0	1.0	1.5	1.5	
AG4033 (IV)	1.1	1.0	1.0	1.0	1.0	1.5	1.2	
AG4232	1.4	1.5	1.0	1.0	2.0	1.8	1.3	
S14-8943R	1.4	1.5	1.0	1.0	1.5	1.7	1.5	
S15-2702	1.4	1.5	1.0	1.3	1.5	1.8	1.5	
S15-7499	1.5	1.5	1.0	1.0	2.0	2.5	1.2	

UNIFORM TEST IV ROUNDUP READY, 2017

PLANT HEIGHT (inches)

Strain	Mean 5 Tests	Neoga IL	Urbana IL	Butler- ville IN	West Lafayette IN	Albany MO	Novelty MO	Portageville Loam MO
LD06-7620 (IV)	31	32	32		33	32	27	
LD07-3395bf (SCN)	30	30	29		35	31	26	
AG3832	32	33	32		34	34	26	
AG4033 (IV)	34	35	36		37	35	29	
AG4232	39	43	41		36	40	33	
S14-8943R	32	33	34		31	34	29	
S15-2702	35	36	36		37	40	29	
S15-7499	37	39	33		37	43	33	

UNIFORM TEST IV ROUNDUP READY, 2017

SEED SIZE (g/100)

Strain	Mean 6 Tests	Neoga IL	Urbana IL	Butler- ville IN	West Lafayette IN	Albany MO	Novelty MO	Portageville Loam MO
LD06-7620 (IV)	14.8	12.4	15.1	14.5	15.6	15.3	16.2	
LD07-3395bf (SCN)	16.3	14.1	16.2	15.7	17.9	16.9	17.2	
AG3832	17.4	14.7	17.8	16.8	19.5	17.9	18.0	
AG4033 (IV)	16.0	13.0	16.0	16.1	18.3	16.3	16.5	
AG4232	15.0	11.8	16.2	15.6	17.2	14.5	14.5	
S14-8943R	14.1	11.7	15.0	13.8	15.6	13.8	14.6	
S15-2702	14.8	12.3	14.9	15.1	17.4	14.6	14.7	
S15-7499	14.5	12.5	13.6	14.1	17.3	14.8	14.5	

UNIFORM TEST IV ROUNDUP READY, 2017

SEED QUALITY (score)

Strain	Mean 6 Tests	Neoga IL	Urbana IL	Butler- ville IN	West Lafayette IN	Albany MO	Novelty MO	Portageville Loam MO
LD06-7620 (IV)	1.3	1.0	2.0	1.0	1.0	1.5	1.5	
LD07-3395bf (SCN)	1.5	2.0	2.0	1.0	1.0	1.5	1.5	
AG3832	1.3	1.0	2.0	1.0	1.0	1.5	1.5	
AG4033 (IV)	1.3	1.0	2.0	1.0	1.0	1.5	1.5	
AG4232	1.3	1.0	2.0	1.0	1.0	1.5	1.5	
S14-8943R	1.5	2.0	2.0	1.0	1.0	1.5	1.5	
S15-2702	1.2	1.0	1.0	1.0	1.0	1.5	1.5	
S15-7499	1.4	2.0	2.0	1.0	1.0	1.0	1.5	

UNIFORM TEST IV ROUNDUP READY, 2017**PROTEIN (%)**

Strain	Mean 6 Tests	Neoga IL	Urbana IL	Butler- ville IN	West Laf IN	Albany MO	Novelty MO
LD06-7620 (IV)	33.7	33.9	33.9	33.6	34.0	33.5	33.5
LD07-3395bf (SCN)	31.0	31.9	30.3	31.4	30.6	31.4	30.2
AG3832	35.0	35.9	33.7	35.1	34.9	35.2	35.3
AG4033 (IV)	35.5	35.5	35.6	34.9	35.6	35.5	35.9
AG4232	34.0	34.7	34.0	33.9	34.7	33.7	33.4
S14-8943R	32.5	33.8	31.9	32.0	33.2	31.5	32.5
S15-2702	33.9	35.2	33.2	33.9	34.5	33.9	32.4
S15-7499	33.7	34.2	31.8	34.1	35.7	34.1	32.4

UNIFORM TEST IV ROUNDUP READY, 2017**OIL (%)**

Strain	Mean 6 Tests	Neoga IL	Urbana IL	Butler- ville IN	West Laf IN	Albany MO	Novelty MO
LD06-7620 (IV)	19.4	19.7	19.2	19.5	18.6	19.7	19.9
LD07-3395bf (SCN)	21.0	21.3	21.1	20.8	20.3	20.9	21.6
AG3832	18.7	19.0	19.1	18.7	18.1	18.6	18.8
AG4033 (IV)	18.3	18.5	18.2	18.7	17.5	18.4	18.8
AG4232	18.9	19.2	18.8	19.0	18.0	19.0	19.7
S14-8943R	19.9	19.9	19.7	19.8	19.1	20.5	20.6
S15-2702	18.8	18.7	19.1	18.7	17.8	18.9	19.8
S15-7499	18.4	18.3	19.0	18.8	17.2	18.5	18.9

HG Type 0

2500 eggs

* = small root

. = missing sample

Rating

HR = highly resistant (FI < 10)

R = resistant (FI ≥ 10 and < 25)

MR = moderately resistant (FI ≥ 25 and < 40)

LR = low resistance (FI ≥ 40 and < 60)

NR = not resistant (FI ≥ 60)

	rep 1	rep 2	rep 3	rep 4	rep 5	rep 6	mean	FI
Lee	162	116	127	111	129	134	130	
PI548402	0	0	0	0	.	.	0	0
PI88788	1	5	8	4	.	.	5	3
PI90763	0	0	0	0	.	.	0	0
PI437654	0	0	0	0	.	.	0	0
PI209332	7	3	5	6	.	.	5	4
PI89772	0	0	0	0	.	.	0	0
PI548316	4	9	7	8	.	.	7	5
PI438489B	0	0	0	0	.	.	0	0
Pickett	0	3	0	.	.	.	1	1

Entry	Strain	rep1	rep2	rep3	mean	cv	FI	rating
1	M11-253-4066	5	2	3	3		3	HR
2	M11-271059	9	119	15	48	130	37	redo
3	M11-271062	4	11	5	7		5	HR
4	MN0404CN (SCN)	0*	0	3	2		1	HR
5	M11-244115	87	12	56	52	73	40	redo
6	M11-244139	54	36	61	50	26	39	MR
7	M11-245026	2	5	12	6		5	HR
8	M11-271064	0	0	3	1		1	HR
9	M11-276036	0*	7	0*	7		5	HR
10	M11-241015	15	21	12	16		12	R
11	M11-268105	0	14	2	5		4	HR
12	U15-934067	72	12	24	36	88	28	redo
13	CR145192	0	5	5	3		3	HR
14	CR145764	0*	17	11	14		11	R
15	CR145789	12	8	13	11		8	HR
16	CR146131	5	3	2	3		3	HR
17	CR148383	0	0*	0*	0		0	HR
18	E15097	2	2	3	2		2	HR
19	E15325	48	69	9*	59	25	45	redo
20	E15338	12	23	11	15		12	R
21	E15339	30	20	15	22		17	R
22	E15345	3	5	2	3		3	HR
23	E15347	2	2	3	2		2	HR
24	E15349	17	15	9	14		11	R
25	E15350	36	8	8	17		13	R
26	E15351	2	8	3	4		3	HR
27	E15390	81	27	59	56	49	43	redo

28	M11-336139	75	86	50	70	26	54	LR
29	LD14-6099a	8	14	6	9		7	HR
30	LD14-6103a	0	1	0*	1		0	HR
31	LD14-6363	19	6	5	10		8	HR
32	U14-217227	38	14*	32	35	12	27	redo
33	U15-613225	75	23*	80	78	5	60	redo
34	U15-917133	2	1	17	7		5	HR
35	U15-927115	20	13	8	14		11	R
36	U15-929095	48	84	69	67	27	52	LR
37	LD14-1429	3	1	2	2		2	HR
38	LD14-3090	102	78	50	77	34	59	LR
39	LD14-6190	*0	3	36	20		15	R
40	LD14-6444	6	3	6	5		4	HR
41	K15-1043	11	12	5	9		7	HR
42	U14-210241	81	53	41	58	35	45	LR
43	U14-211209	5	11	3	6		5	HR
44	U14-211226	0	0	3	1		1	HR
45	U14-212231	10*	39	63	51	33	39	redo
46	U14-218219	3	11	23	12		9	HR
47	U14-219257	12	14	53	26		20	R
48	U15-606207	3	0*	0	2		1	HR
49	U15-613163	2	9	14	8		6	HR
50	S13-2743C	8	4	3	5		4	HR
51	CR145524	69	78	66	71	9	55	LR
52	CR146116	44	15	62	40	59	31	redo
53	K15-1008	18	9	12	13		10	R
54	K15-1039	25	20	12	19		15	R
55	K15-1278	5	7	21	11		8	HR
56	K15-1279	1	0	1	1		1	HR
57	K15-1283	20	6	15	14		11	R
58	K15-1294	18	14	23	18		14	R
59	K15-1303	3	8	5	5		4	HR
60	K15-1307	7	9	3	6		5	HR
61	K15-1310	2	6	3	4		3	HR
62	LD14-2880	0	2	0	1		1	HR
63	LD14-3698	2	1*	2	2		2	HR
64	LD14-6763	29	45	44	39	23	30	MR
65	LD14-6766	0*	3	23	13		10	R
66	LD14-6796	11	5	2	6		5	HR
67	E11128T	0	0*	3	2		1	HR
68	E15079T	5	2	5	4		3	HR
69	E15165T	11	5	5	7		5	HR
70	E15346T	12	5	8	8		6	HR
71	LD14-13590R2a	3	5	0	3		2	HR
72	LD14-14172R2	0*	2	8	5		4	HR
73	LD14-14308R2	1	5	0	2		2	HR

HG Type 2.5.7

2500 eggs

* = small root

. = missing sample

Rating

HR = highly resistant (FI < 10)

R = resistant (FI ≥ 10 and < 25)

MR = moderately resistant (FI ≥ 25 and < 40)

LR = low resistance (FI ≥ 40 and < 60)

NR = not resistant (FI ≥ 60)

	rep 1	rep 2	rep 3	rep 4	rep 5	rep 6	mean	FI
Lee	300	285	296	289	267	257	282	
PI548402	0	0	0	0			0	0
PI88788	93	101	114	103			103	36
PI90763	0	0	0	0			0	0
PI437654	0	0	0	0			0	0
PI209332	119	126	104	127			119	42
PI89772	0	0	0	0			0	0
PI548316	143	157	162	151			153	54
PI438489B	0	0	0	0			0	0
Pickett	21	19	27	25			23	8

Entry	Strain	rep1	rep2	rep3	mean	cv	FI	rating			
1	M11-253-4066	190	184	172	182	5	140	NR	146	142	132
2	M11-271059	159	162	141	154	7	119	LR	122	125	109
3	M11-271062	152	149	126	142	10	110	LR	117	115	97
4	MN0404CN (SCN)	105	134	89	109	21	84	MR	81	103	69
5	M11-244115	31*	115	140	128	14	98	LR		89	108
6	M11-244139	182	200	173	185	7	142	NR	140	154	133
7	M11-245026	55*	168	138	153	14	118	LR		129	106
8	M11-271064	177	214	108	166	32	128	LR	136	165	83
9	M11-276036	124	115	118	119	4	92	LR	96	89	91
10	M11-241015	201	197	176	191	7	147	NR	155	152	136
11	M11-268105	104	138	89	110	23	85	MR	80	106	69
12	U15-934067	198	268	183	216	21	167	NR	153	206	141
13	CR145192	111	107	97	105	7	81	MR	85	82	75
14	CR145764	167	200	134	167	20	129	LR	129	154	103
15	CR145789	186	172	193	184	6	141	NR	143	132	149
16	CR146131	179	196	147	174	14	134	NR	138	151	113
17	CR148383	103	96	99	99	4	77	MR	79	74	76
18	E15097	139	142	153	145	5	111	LR	107	109	118
19	E15325	123	169	125	139	19	107	LR	95	130	96
20	E15338	188	216	178	194	10	149	NR	145	166	137
21	E15339	165	213	181	186	13	144	NR	127	164	139
22	E15345	208	267	193	223	18	172	NR	160	206	149
23	E15347	5*	147	177	162	13	125	LR		113	136
24	E15349	177	169	156	167	6	129	LR	136	130	120
25	E15350	195	216	183	198	8	153	NR	150	166	141
26	E15351	239	288	261	263	9	202	NR	184	222	201

27	E15390	167	281	185	211	29	163	NR	129	216	142
28	M11-336139	234	216	222	224	4	173	NR	180	166	171
29	LD14-6099a	92	66	89	82	17	63	MR	71	51	69
30	LD14-6103a	98	121	107	109	11	84	MR	75	93	82
31	LD14-6363	126	143	122	130	9	100	LR	97	110	94
32	U14-217227	13*	202	68*	202		156	redo		156	
33	U15-613225	136	124	113	124	9	96	LR	105	96	87
34	U15-917133	107	90	98	98	9	76	MR	82	69	75
35	U15-927115	163	181	157	167	7	129	LR	126	139	121
36	U15-929095	145	169	123	146	16	112	LR	112	130	95
37	LD14-1429	182	171	174	176	3	135	NR	140	132	134
38	LD14-3090	183	172	177	177	3	137	NR	141	132	136
39	LD14-6190	91	89	115	98	15	76	MR	70	69	89
40	LD14-6444	119	166	146	144	16	111	LR	92	128	112
41	K15-1043	168	223	179	190	15	146	NR	129	172	138
42	U14-210241	154	161	196	170	13	131	NR	119	124	151
43	U14-211209	84	4*	107	96	17	74	MR	65		82
44	U14-211226	110	128	118	119	8	91	LR	85	99	91
45	U14-212231	176	278	87	180	53	139	NR	136	214	67
46	U14-218219	131	13*	0*	131		101	redo	101		
47	U14-219257	175	185	166	175	5	135	NR	135	142	128
48	U15-606207	107	4*	4*	107		82	redo	82		
49	U15-613163	155	165	182	167	8	129	LR	119	127	140
50	S13-2743C	119	157	54*	138	19	106	LR	92	121	
51	CR145524	85	118	74	92	25	71	MR	65	91	57
52	CR146116	166	131	153	150	12	116	LR	128	101	118
53	K15-1008	143	197	155	165	17	127	LR	110	152	119
54	K15-1039	166	148	129	148	13	114	LR	128	114	99
55	K15-1278	143	144	135	141	4	108	LR	110	111	104
56	K15-1279	104	119	108	110	7	85	MR	80	92	83
57	K15-1283	101	116	130	116	13	89	LR	78	89	100
58	K15-1294	103	171	123	132	26	102	LR	79	132	95
59	K15-1303	137	57	119	104	40	80	MR	106	44	92
60	K15-1307	151	145	121	139	11	107	LR	116	112	93
61	K15-1310	175	181	167	174	4	134	NR	135	139	129
62	LD14-2880	156	182	133	157	16	121	LR	120	140	102
63	LD14-3698	112	103	144	120	18	92	LR	86	79	111
64	LD14-6763	87	71	74	77	11	60	MR	67	55	57
65	LD14-6766	89	101	107	99	9	76	MR	69	78	82
66	LD14-6796	59	53	28	47	35	36	R	45	41	22
67	E11128T	141	20*	5*	141		109	redo	109		
68	E15079T	111	95	102	103	8	79	MR	85	73	79
69	E15165T	278	301	286	288	4	222	NR	214	232	220
70	E15346T	164	131	125	140	15	108	LR	126	101	96
71	LD14-13590R2a	101	145	26*	123	25	95	redo	78	112	
72	LD14-14172R2	.	175	.	175		135	redo		135	
73	LD14-14308R2	152	182	151	162	11	125	LR	117	140	116