THE UNIFORM SOYBEAN TESTS

NORTHERN REGION

2015

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

COOPERATING WITH
STATE AGRICULTURAL EXPERIMENT STATIONS NORTHERN STATES

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UNIFORM SOYBEAN TESTS

NORTHERN STATES

2015

USDA-ARS
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2015 UNIFORM SOYBEAN TESTS NORTHERN STATES

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TABLE OF CONTENTS

Acknowledgements	1
Uniform Test Participants	2
Introduction	8
Strain Designations	10
Methods	11
Disease Methods	13
Procedure for Testing and Release of Strains	15
Uniform Test Strains Released in 2015	17
Disease, Shattering, and Descriptive Data	18
Soybean Cyst Nematode Evaluations	19
Soybean Phytophthora Gene Evaluations	22
Identification of Parent Strains	42
Uniform and Preliminary Test Locations Rainfall Data	49
Uniform Test Locations	51
Uniform Test 00	53
Uniform Test 0	67
Preliminary Test 0	75
Uniform Test I	87
Preliminary Test I	99
Uniform Test II	119
Preliminary Test IIA	147
Preliminary Test IIB	167
Uniform Test III	187
Preliminary Test IIIA	215
Preliminary Test IIIB	235
Uniform Test IV	255
Preliminary Test IV	267
Uniform Test 00-RR	287
Uniform Test 0-RR	295
Uniform Test I-RR	309
Uniform Test II-RR	323
Uniform Test III-RR	341
Uniform Test IV-RR	353

The Uniform Soybean Tests are conducted and managed as a component of a CRIS project on Enhancing Resistance to Root Rot Pathogens of Soybeans in the USDA-ARS Crop Production and Pest Control Unit at West Lafayette, Indiana. The interim scientist for the CRIS Unit is Dr. Brandi Schemerhorn.

Acknowledgements

The cooperation of the following people is gratefully acknowledged for their ratings of the Uniform Test Entries: Dr. Brian Diers and Troy Cary, University of Illinois, Urbana, Illinois - Soybean Cyst Nematodes; Dr. Jim Orf and Phil Schaus, University of Minnesota, St. Paul, MN - Iron Chlorosis Ratings; Dr. William Schapaugh, Kansas State University, Manhattan, KS - Shattering Ratings; Dr. Brandi Schemerhorn and T.J. Fleury, USDA-ARS, West Lafayette, IN - Phytophthora Ratings.

We would like to acknowledge the support of this project provided through a grant by the United Soybean Board.

A special thanks to the following people whose cooperation and participation have helped to make the Uniform Tests Northern States possible:

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Introduction

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

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

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

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

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

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

Introduction

NORTHERN REGIONAL UT – POLICY ON EVALUATION AND RELEASE OF STRAINS

Qualifications for inclusion in the Uniform Tests.

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

Use of Uniform Test entries in soybean breeding and research.

1) Seed of Uniform test entries is for evaluation in the Uniform tests only and may not be distributed to non-participants in these tests without prior approval by the originator of the entry.
2) Uniform Test participants must obtain written approval before using any entry, other than their own, as a recurrent parent in backcrossing, in any breeding or genetic studies, or for any other research.
3) Experimental strains entered in the Uniform Tests should be labeled “Experimental Strain” and should not be identified by strain designation when grown in demonstration plots or when the Uniform Tests are shown on field days or farm tours.
4) Seed of any transgenic entry must not be used for further evaluation without written permission from the originator of the entry, and must be discarded at the end of the season, except for crossing purposes, subject to the restrictions outlined in the preceding sections two and three.

Release of Uniform Test entries.

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

Strain Designations

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

A	Iowa A.E.S. (A=W. Fehr, AR=S. Cianzio)
Ar	Arizona A.E.S.
Au	Alabama A. E. S.
B	California
C	Purdue (Indiana) A.R.P. (C=J.R. Wilcox, CL=A. LeRoy)
CM	Canada Dept. of Agriculture, Morden, Manitoba
D	Mississippi A.E.S.
E	Michigan A.E.S.
F	Florida A.E.S.
FC	Forage and Range Research Branch, USDA
Ga	Georgia A.E.S.
H	Ohio A.R.D.C. (HC=R.L. Cooper, HF=R. Fioritto, HS=S.K. St. Martin/L. McHale)
K	Kansas A.E.S.
Ky	Kentucky A.E.S.
L	Illinois A.E.S. (LD=B. Diers, LG=R.L. Nelson, LN=C.D. Nickell)
La	Louisiana A.E.S.
LS	Southern Illinois University (LS=M. Schmidt)
M	Minnesota A.E.S.
Md	Maryland A.E.S.
Me	Maine A.E.S.
N	North Carolina A.E.S.
ND	North Dakota A.E.S.
OAC	University of Guelph, Guelph, Ontario
OK	Oklahoma Agricultural Experiment Station
ORC	Ridgetown, Ontario
OT	Central Experimental Farm, Ottawa, Ontario
OX	Research Station, Harrow, Ontario
PI	Plant Inventory
R	Arkansas A.E.S.
RJ	Arkansas State University, Jonesboro
S	Missouri A.E.S. (SS=D. Sleper)
SC	South Carolina A.E.S.
SD	South Dakota A.E.S.
Ts	Texas A.E.S.
T	Soybean Genetic Type Collection, USDA, Urbana, IL
U, NEX	Nebraska A.E.S.
UD	Delaware A.E.S.
UM	University of Manitoba, Winnipeg, Manitoba
UT	Tennessee A.E.S.
V	Virginia A.E.S.
W	Wisconsin A.E.S.
X(Y)	Two or more states cooperatively, e.g. ND(M) North Dakota and Minnesota distribution has not been made previously.

Methods

Uniform tests are planted in multiple-row plots with three or four replications, and the center rows are harvested for yield and seed quality determinations. Preliminary Tests are multiple-row plots with two replications. Usually 15 to 20 feet of row are planted and 12 to 16 feet harvested, to eliminate end-of-row effects. Coefficients of variability are included with all replicated test data.

Discretion is used in including data with high CVs in the regional means. If the CV is greater than 15, participants should include the reason, such as disease or environmental conditions. Lines may be heterogeneous for morphological traits the first year in the Uniform Tests but must be pure lines the second year of testing. It is the responsibility of the breeder to purify heterogeneous lines.

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

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

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

Maturity is the date when 95% of the pods have ripened, as indicated by their mature pod color. Delayed leaf drop and green stems are not considered in assigning maturity. Maturity is expressed as days earlier (-) 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	-6 to +2	MN0095 (E)	MN1410 (I)
I	MN1410	-4 to +4	Sheyenne (0)	IA1022 (SCN)
II	IA2102	-3 to +5	IA1022 (SCN)	IA3024 (L)
III	IA3023	-6 to +2	IA3024	LD07-3395bf (SCN)
IV	LD06-7620	-4 to +7	LD07-3395bf (SCN)	LD00-2817 (L)
00RR	AG00632		AG00133	AG00932
0RR	AG0532		AG0231 (E)	AG1234
IRR	AG1733		AG1234 (E)	U07-135601R
IIRR	U06-814223R		AG2031 (E)	NEX2905A0R (L)
IIIRR	U03-827101 (SCN)		NEX2905A0R (E)	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, or IA3024 as a 1% linoleic check in PTII, and PTIII.

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 45,359.2.

Seed Quality is rated according to the following scores considering the amount and degree of wrinkling, defective seed coat (growth cracks), greenishness, and moldy or other pigment. Ratings for seed quality are:

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

Seed Composition is measured on samples submitted to the USDA-ARS National Center for Agricultural Utilization Research, Peoria, Illinois. A 25-gram sample of clean seed is prepared by taking an equal volume or weight of seed from each replication. Protein and oil percentages are measured on these samples using near infrared transmittance, and reported as dry weight percentage value. The values listed in this report have been converted to a 13% moisture basis.

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

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

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

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

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

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

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

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

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

Disease Methods

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

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

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

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

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

Disease Methods

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

DX = SDS Disease index (DI x DS/9)
DI = SDS Disease Incidence (% of plants with visible leaf symptoms)
DS = SDS Disease Severity (1=mild chlorosis, 5=severe leaf scorch, 9=premature death of the plant)

Minnesota Iron Chlorosis Scores (IDC): Scores are the values on the average of 2 observations taken June, 26 and July 28. Data was collected from Danvers, Minnesota. Planting date: June, 1st 2015.

Procedure for Testing and Release of Strains

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

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

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

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

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

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

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

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

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

Procedure for Testing and Release of Strains

Payne, Chief, Seed Regulatory & Testing Branch, Crossing Place, Suite C, Gastonia, North Carolina 28054-2193, phone 704-810-8870, Fax: 704-852-4189 (Lab). The date for simultaneous publicity release on new soybean cultivars by participating states is determined by the originating state, and is usually in August but may be delayed until the following April if additional UT data are being reviewed and a final decision to release has not been made.

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

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

Uniform Test Strains Released, 2015

Variety	Experimental Designation	Uniform Test Evaluations
MN1312CN	M05-353151	2015 Uniform Preliminary Test IIB
ND09-5604	ND Henson	2013-2015 Uniform Test 00

Variety	Release date	Releasing states	Foundation Seed Production
MN1312CN	Jan. 2015	Minnesota	2015
ND09-5604	Jan. 2015	North Dakota	2014

Disease, Shattering, and Descriptive Data, 2015

State/ Province	Location	Conducted By:	Tests	UT	PT	UTRR
IA	Ames Crawfordsville	S. Cianzio S. Cianzio	SDS SDS	II III	II III	
IL	Fairbury Valmeyer	C. Schmidt C. Schmidt	SDS SDS	I, III III-IV		I, III III-IV
IN	West Lafayette	B. Schemerhorn / T. Fleury	PR Evaluations	00-IV	0-IV	00-IV
KS	Manhattan	W. Schapaugh, Jr.	Shattering	00-IV	0-IV	00-IV
MN	Danvers	J. H. Orf	Fe Chlorosis (IDC)	00-II	0-II	00-II
MO	Columbia	A. Scaboo	Green Stem	IV		
OH	So Charleston	L. McHale	Green Stem	III-IV	III	
ONT	Ottawa	E. Cober	Green Stem	00-0		
QUE	Saint-Mathieu-de-Beloeil	L. O'Donoughue	Green Stem	00-0	0	
TN	Jackson	P. Arelli	Green Stem	IV	IV	

Soybean Cyst Nematode Evaluations, 2015

1500 Eggs/Plant Inoculum

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

Ratings:	F1 Values	
HR	<10	Highly Resistant
R	10-24	Resistant
MR	25-39	Moderately Resistant
LR	40-59	Low Resistance
NR	>60	No Resistance

HG Type 0 (Race 3)			*retest*		**HG Type 2.5.7 (Race 1)**			*retest*	
Indicator	6 Reps Mean	F1	*Mean*	*F1*	Indicator	6 Reps Mean	F1	*Mean*	*F1*
Lee	166				Lee	220			
Essex	131				Essex	169			
PI548402	0	0			PI548402	0	0		
PI88788	4	2			PI88788	51	23		
PI90763	0	0			PI90763	0	0		
PI437654	0	0			PI437654	0	0		
PI209332	3	2			PI209332	67	31		
PI89772	0	0			PI89772	0	0		
PI548316	7	4			PI548316	78	35		
PI438489B	8	5			PI438489B				
Pickett	9	5			Pickett				

*=small root

**=rep data too variable to rate

	HG Type 0 (Race 3)				**HG Type 2.5.7 (Race 1)**			
Entry	**Strain**	**Mean**	**F1**	**Rating**	**Mean**	**F1**	**Rating**	**Test**
1	MN0071 (00)	92	55	LR	70	237	NR	UT00
2	ND Henson	131	79	NR	82	277	NR	UT00
3	MN0095	43	**	redo	40	134	NR	UT00, 0; PT0
8	ND11-19539	129	78	NR	61	206	NR	UT00
9	ND11-19725	20	12	R	**	**	redo	UT00
1	Sheyenne	135	81	NR	62	209	NR	UT0, I; PTI
4	MN0606CN	10	6	HR	22	74	NR	UT0; PT0
12	M08-359053	60	**	redo	**	**	redo	UT0
16	ND10-2763	37	22	R	**	**	redo	UT0
17	ND10-3464	11	7	HR	**	**	redo	UT0
10	ND11-16223	147	89	NR	61	208	NR	PT0
11	ND11-16225	118	71	NR	82	277	NR	PT0
12	ND11-16241	124	75	NR	84	283	NR	PT0
13	ND11-19471	137	83	NR	55	185	NR	PT0
14	ND11-19483	139	84	NR	50	169	NR	PT0
1	MN1410	125	75	NR	55	188	NR	UT0, I; PT0, I
2	IA1022 (SCN)	26	16	R	13	43	LR	UTI, II; PTI, II
10	U11-917032	10	6	HR	8	28	MR	UTI
19	ORC 3713N	17	10	R	27	92	NR	PTI

	HG Type 0 (Race 3)				HG Type 2.5.7 (Race 1)			
Entry	**Strain**	**Mean**	**F1**	**Rating**	**Mean**	**F1**	**Rating**	**Test**
20	OAC 13-85C-SCN	75	45	MR	48	162	NR	PTI
21	OAC 13-87C-SCN	2	1	HR	16	55	LR	PTI
1	IA2102	13	8	HR	33	111	NR	UTII; PTII
4	LD02-4485	6	4	HR	8	28	MR	UTII
10	LD10-5213a	5	3	HR	18	62	NR	UTII
11	LD10-10198	4	2	HR	**	**	redo	UTII
12	LD10-14323	8	5	HR	16	55	LR	UTII
14	U11-911079	6	4	HR	10	35	MR	UTII
1	IA3023	109	66	NR	73	246	NR	UTIII; PTIII
2	IA3024	147	89	NR	71	240	NR	UTII, III; PTII, III
3	IA3048	3	2	HR	19	63	NR	UTIII; PTIII
4	LD07-3395bf	2	1	HR	**	**	redo	UTIII
8	LD09-30224	2	1	HR	11	37	MR	UTIII
11	LD11-2170	23	14	R	22	74	NR	UTIII
15	LD11-7311	10	6	HR	17	58	LR	UTIII
1	LD06-7620	23	14	R	23	78	NR	UTIV; PTIV
3	LD00-2817P	1	1	HR	1	3	HR	UTIV; PTIV
32	ORC 7512N	56	**	redo	29	97	NR	PTI
23	M09-278096	8	5	HR	11	38	MR	PTIIA
24	M09-278097	9	5	HR	15	51	LR	PTIIA
25	M09-281098	4	2	HR	7	23	R	PTIIA
5	LD12-300	109	66	NR	60	203	NR	PTIIB
10	ORC 8512N	4	2	HR	7	25	MR	PTIIB
16	U13-612076	107	64	NR	26	89	NR	PTIIB
18	U13-618087	117	70	NR	61	206	NR	PTIIB
19	U13-618123	152	92	NR	78	263	NR	PTIIB
23	U13-912040	140	84	NR	101	343	NR	PTIIB
25	U13-929048	163	98	NR	85	286	NR	PTIIB
23	LD12-3866	48	29	MR	40	137	NR	PTIIIA
14	U12-209068	154	93	NR	26	89	NR	PTIIIB
15	U12-330200	30	18	R	64	215	NR	PTIIIB
18	U12-428210	142	86	NR	89	300	NR	PTIIIB
19	U12-428214	139	84	NR	40	134	NR	PTIIIB
20	U13-602187	112	67	NR	65	220	NR	PTIIIB
21	U13-602194	108	65	NR	66	225	NR	PTIIIB
25	U13-615123	182	110	NR	100	337	NR	PTIIIB
26	U13-617037	89	**	redo	71	242	NR	PTIIIB
27	U13-618135	82	**	redo	119	403	NR	PTIIIB
28	U13-931068	93	56	LR	70	235	NR	PTIIIB

	HG Type 0 (Race 3)				HG Type 2.5.7 (Race 1)			
Entry	**Strain**	**Mean**	**F1**	**Rating**	**Mean**	**F1**	**Rating**	**Test**
11	LD12-10534	75	45	LR	50	169	NR	PTIV
20	S12-3835	37	22	R	18	62	NR	PTIV
21	S13-11061	21	13	R	21	71	NR	PTIV
1	AG00632 (00)	26	16	R	35	118	NR	UT00RR
5	M09-876012	3	2	HR	19	65	NR	UT0RR
6	M09-876048	19	11	R	12	42	LR	UT0RR
11	M09-957051	26	16	R	44	149	NR	UT0RR
5	LD12-15064 R1a	24	14	R	50	168	NR	UTIIRR
6	LD12-15129 R1a	22	13	R	31	105	NR	UTIIRR
7	LD12-15224 R2a	7	4	HR	34	115	NR	UTIIRR
8	LD12-15227 R2a	3	2	HR	15	52	LR	UTIIRR
9	LD12-15229 R2a	5	3	HR	**	**	redo	UTIIRR
10	LD12-15246 R2a	5	3	HR	18	60	NR	UTIIRR
11	LD12-15248 R2a	3	2	HR	19	65	NR	UTIIRR
14	M09-957052	24	14	R	14	48	LR	UTIIRR
1	U03-827101 (III) (SCN)	32	19	R	50	171	NR	UTIIIRR
3	AG3832	17	10	R	28	94	NR	UTIIIRR
5	LD11-13802R2	22	13	R	33	111	NR	UTIIIRR
6	LD11-14102R	21	13	R	20	66	NR	UTIIIRR
7	LD12-15156 R1a	6	4	HR	5	15	R	UTIIIRR
8	LD12-15505 R1	4	2	HR	**	**	redo	UTIIIRR
9	LD12-15609 R2	18	11	R	32	108	NR	UTIIIRR
10	LD12-15753 R2	3	2	HR	13	43	LR	UTIIIRR
3	AG4232	14	8	HR	18	62	NR	UTIVRR
4	LD11-13948R	24	**	redo	10	32	MR	UTIVRR

Soybean Phytophthora Rps Gene Evaluation, 2015

	Isolate	ISA 69 C-2, vir. Rps 7 (Race 1)		ISA 147 F-3, vir. Rps 1b, 7 (Race 2)		Dorrance Race 3	
	Dates Rated	5/18/2015		6/8/2015		9/16/2015	
Differential Name	**Rps gene**	% Dead	# D/T	% Dead	# D/T	% Dead	# D/T
Williams	rps	91%	10/11	100%	12/12	75%	9/12
Union	1a (U)	0%	0/10	11%	1/9	75%	9/12
	1b	n/a	n/a	100%	12/12	0%	0/12
	1c	9%	1/11	18%	2/11	0%	0/12
	1d	0%	0/10	0%	0/12	25%	3/12
	1k	0%	0/10	36%	4/11	0%	0/12
	2	n/a	n/a	27%	3/11	42%	5/12
	3a	0%	0/11	0%	0/10	0%	0/12
	3b	0%	0/12	0%	0/12	0%	0/11
	3c	17%	2/12	33%	4/12	22%	2/9
	4	22%	2/9	0%	0/8	10%	1/10
	5	10%	1/10	0%	0/11	0%	0/10
	6	27%	3/11	8%	1/12	0%	0/12
Harosoy	7	73%	8/11	100%	12/12	55%	6/11
PI399073	8	0%	0/6	0%	0/8	0%	0/9
Strain	**MG / Ent #**						
MN0071 (00)	UT00 1	0%	0/12	25%	3/12	92%	11/12
MN0095 (0)	UT00 2	0%	0/12	91%	10/11	100%	12/12
ND Henson	UT00 3	25%	3/12	42%	5/12	0%	0/12
M06-338016	UT00 4	9%	1/11	60%	6/10	58%	7/12
M07-260009	UT00 5	25%	3/12	75%	9/12		
M08-271313	UT00 6	0%	0/11	33%	4/12	83%	10/12
M09-240029	UT00 7	17%	2/12	83%	10/12		
M09-242072	UT00 8	25%	3/12	100%	12/12		
M09-248030	UT00 9	0%	0/12	83%	10/12		
M09-340080	UT00 10	0%	0/10	36%	4/11	0%	0/12
M09-341061	UT00 11	17%	2/12	92%	11/12		
M09-519014	UT00 12	18%	2/11	92%	11/12		
M09-525037	UT00 13	10%	1/10	25%	3/12	0%	0/12
ND11-16587	UT00 14	33%	4/12	22%	2/9	0%	0/11
ND11-19225	UT00 15	0%	0/9	0%	0/12	0%	0/10
ND11-19539	UT00 16	0%	0/10	0%	0/12	17%	2/12
ND11-19725	UT00 17	30%	3/10	0%	0/10	0%	0/12
ND12-13257	UT00 18	0%	0/12	0%	0/12	0%	0/12
ND12-13260	UT00 19	0%	0/12	0%	0/11	0%	0/12
ND12-15623	UT00 20	0%	0/12	100%	12/12		
ND12-15628	UT00 21	0%	0/12	92%	11/12		
ND12-15647	UT00 22	17%	2/12	92%	11/12		
ND12-17224	UT00 23	8%	1/12	25%	3/12	0%	0/12
ND12-19525	UT00 24	40%	4/10	0%	0/12	0%	0/12
OAC 13-05C	UT00 25	0%	0/12	0%	0/12	8%	1/12
Sheyenne (0)	UT0 1	0%	0/10	8%	1/12	0%	0/12
MN0095 (E)	UT0 2	33%	4/12	75%	9/12	100%	12/12
MN0606CN (SCN)	UT0 3	92%	11/12	100%	12/12	83%	10/12
MN1410 (I)	UT0 4	91%	10/11	100%	12/12	100%	12/12
M07-260028	UT0 5	92%	11/12				
M07-278126	UT0 6	42%	5/12	50%	6/12	67%	8/12
M08-154093	UT0 7	8%	1/12	92%	11/12		
M08-218002	UT0 8	67%	8/12	92%	11/12		
M08-218089	UT0 9	33%	4/12	10%	1/10	0%	0/11

Soybean Phytophthora Rps Gene Evaluation, 2015

ISA 45 B-1 Race 4		Dorrance Race 7		Dorrance Race 17		ISA R2T21 A-1 Race 25	
10/7/2015		10/21/2015		11/6/2015		11/18/2015	
% Dead	# D/T	% Dead	# D/T	% Dead	# D/T	% Dead	# D/T
100%	9/9	82%	9/11	87%	13/15	91%	10/11
100%	12/12	92%	11/12	0%	0/11	100%	12/12
82%	9/11	0%	0/12	100%	12/12	82%	9/11
100%	10/10	0%	0/7	0%	0/11	100%	11/11
0%	0/12	0%	0/12	92%	11/12	25%	3/12
100%	10/10	0%	0/12	8%	1/12	100%	11/11
8%	1/12	92%	11/12	83%	10/12	9%	1/11
0%	0/10	90%	9/10	100%	12/12	0%	0/12
91%	10/11	0%	0/12	67%	8/12	0%	0/11
30%	3/10	73%	8/11	44%	4/9	0%	0/6
11%	1/9	75%	6/8	91%	10/11	0%	0/10
0%	0/11	100%	11/11	93%	14/15	0%	0/12
9%	1/11	67%	8/12	92%	11/12	0%	0/12
92%	11/12	100%	11/11	82%	9/11	83%	10/12
0%	0/10	40%	4/10	0%	0/12	0%	0/6
75%	9/12	92%	11/12	0%	0/12	42%	5/12
100%	12/12	92%	11/12	0%	0/12	100%	12/12
25%	3/12	36%	4/11	25%	3/12	58%	7/12
100%	11/11	100%	11/11	0%	0/12	75%	9/12
100%	12/12	92%	11/12	0%	0/12	17%	2/12
100%	12/12	0%	0/12	0%	0/12	83%	10/12
100%	10/10	0%	0/12	0%	0/12	82%	9/11
0%	0/12	100%	10/10	91%	10/11	8%	1/12
0%	0/12	92%	11/12	9%	1/11	0%	0/12
100%	11/11	0%	0/12	0%	0/11	100%	12/12
0%	0/12	82%	9/11	75%	9/12	0%	0/11
0%	0/12	82%	9/11	0%	0/11	0%	0/12
0%	0/12	92%	11/12	0%	0/11	0%	0/12
8%	1/12	0%	0/12	25%	3/12	0%	0/10
0%	0/12	92%	11/12	100%	9/9	0%	0/12
25%	3/12	0%	0/12	0%	0/12	0%	0/12
100%	12/12	27%	3/11	0%	0/11	100%	12/12
100%	12/12	100%	12/12	0%	0/12	100%	12/12
92%	11/12	50%	6/12	92%	11/12	73%	8/11
92%	11/12	92%	11/12	58%	7/12	100%	10/10
92%	11/12	75%	9/12	8%	1/12	92%	11/12
17%	2/12	58%	7/12	58%	7/12	8%	1/12

Soybean Phytophthora Rps Gene Evaluation, 2015

	Isolate	ISA 69 C-2, vir. Rps 7 (Race 1)		ISA 147 F-3, vir. Rps 1b, 7 (Race 2)		Dorrance Race 3	
M08-271196	UT0 10	30%	3/10	67%	8/12	92%	11/12
M08-359053	UT0 11	100%	11/11				
M08-434024	UT0 12	0%	0/12	8%	1/12	18%	2/11
ND09-5798	UT0 13	0%	0/12	0%	0/11	0%	0/12
ND10-2763	UT0 14	83%	10/12				
ND10-3067	UT0 15	8%	1/12	58%	7/12	0%	0/12
ND10-3464	UT0 16	91%	10/11				
ND10-4518	UT0 17	17%	2/12	42%	5/12	55%	6/11
OAC 12-21C	UT0 18	8%	1/12	10%	1/10	9%	1/11
OAC 12-31C	UT0 19	0%	0/12	0%	0/12	0%	0/11
Sheyenne (0)	PT0 1	0%	0/11	42%	5/12	0%	0/12
MN0095 (E)	PT0 2	58%	7/12	75%	9/12	100%	11/11
MN0606CN (SCN)	PT0 3	100%	10/10	100%	10/10	100%	12/12
MN1410 (I)	PT0 4	100%	12/12	83%	10/12	100%	12/12
M08-144031	PT0 5	8%	1/12	17%	2/12	25%	3/12
M09-240005	PT0 6	50%	6/12	33%	4/12	58%	7/12
M09-251028	PT0 7	17%	2/12	67%	8/12	100%	12/12
M09-251081	PT0 8	17%	2/12	75%	9/12		
M09-251100	PT0 9	8%	1/12	100%	12/12		
M09-252032	PT0 10	45%	5/11	75%	9/12		
M09-252048	PT0 11	0%	0/12	58%	7/12	100%	12/12
M09-252049	PT0 12	25%	3/12	83%	10/12		
M09-261065	PT0 13	100%	12/12				
M09-261067	PT0 14	100%	12/12				
M09-261084	PT0 15	100%	12/12				
M09-262111	PT0 16	20%	2/10	92%	11/12		
M09-340060	PT0 17	25%	3/12	42%	5/12	25%	3/12
M09-340084	PT0 18	0%	0/12	58%	7/12	18%	2/11
M09-525015	PT0 19	0%	0/12	50%	6/12	0%	0/12
M09-525033	PT0 20	8%	1/12	8%	1/12	42%	5/12
M11-115357	PT0 21	100%	12/12				
ND11-16223	PT0 22	0%	0/11	18%	2/11	0%	0/12
ND11-16225	PT0 23	0%	0/10	40%	4/10	0%	0/11
ND11-16241	PT0 24	0%	0/11	18%	2/11	0%	0/11
ND11-16553	PT0 25	0%	0/12	42%	5/12	0%	0/9
ND11-16628	PT0 26	0%	0/12	0%	0/12	27%	3/11
ND11-19471	PT0 27	0%	0/11	0%	0/10	11%	1/9
ND11-19483	PT0 28	45%	5/11	55%	6/11	36%	4/11
ND11-20868	PT0 29	9%	1/11	9%	1/11	0%	0/12
ND12-15651	PT0 30	0%	0/11	83%	10/12		
ND12-15653	PT0 31	17%	2/12	92%	11/12		
ND12-15670	PT0 32	17%	2/12	100%	12/12		
ND12-17339	PT0 33	0%	0/12	0%	0/12	0%	0/12
ND12-17541	PT0 34	0%	0/10	0%	0/11	0%	0/11
ND12-19542	PT0 35	0%	0/11	45%	5/11	0%	0/12
ND12-2670	PT0 36	0%	0/12	0%	0/10	0%	0/12
OAC 13-64C-ChCdn	PT0 37	58%	7/12	100%	10/10		
MN1410 (I)	UTI 1	64%	7/11	100%	12/12	100%	12/12
IA1022 (SCN)	UTI 2	91%	10/11	58%	7/12	92%	11/12
Sheyenne (0)	UTI 3	0%	0/12	33%	4/12	8%	1/12
AR13-132037	UTI 4	0%	0/12	17%	2/12	0%	0/12
M07-278122	UTI 5	8%	1/12	0%	0/11	8%	1/12
M08-224032	UTI 6	10%	1/10	0%	0/11	17%	2/12
M08-391087	UTI 7	8%	1/12	50%	6/12	0%	0/12
OAC 12-61C	UTI 8	100%	10/10				
OAC 12-86C	UTI 9	0%	0/12	75%	9/12		
U11-917032	UTI 10	90%	9/10				
U11-932025	UTI 11	100%	9/9				
U11-932079	UTI 12	92%	11/12				
U12-921005	UTI 13	100%	11/11				

Soybean Phytophthora Rps Gene Evaluation, 2015

ISA 45 B-1 Race 4		Dorrance Race 7		Dorrance Race 17		ISA R2T21 A-1 Race 25	
73%	8/11	100%	11/11	0%	0/12	42%	5/12
8%	1/12	17%	2/12	8%	1/12	27%	3/11
0%	0/12	0%	0/12	0%	0/12	0%	0/12
100%	12/12	0%	0/10	0%	0/12	100%	12/12
92%	11/12	91%	10/11	0%	0/11	91%	10/11
0%	0/10	60%	6/10	90%	9/10	0%	0/9
0%	0/11	67%	8/12	100%	12/12	0%	0/12
100%	12/12	9%	1/11	0%	0/12	100%	11/11
100%	12/12	100%	12/12	0%	0/12	100%	12/12
100%	12/12	42%	5/12	91%	10/11	92%	11/12
100%	11/11	82%	9/11	58%	7/12	100%	12/12
100%	10/10	20%	2/10	11%	1/9	100%	11/11
50%	6/12	92%	11/12	92%	11/12	18%	2/11
100%	12/12	83%	10/12	0%	0/12	92%	11/12
83%	10/12	83%	10/12	0%	0/12	92%	11/12
33%	4/12	25%	3/12	27%	3/11	83%	10/12
100%	11/11	0%	0/11	8%	1/12	100%	12/12
100%	11/11	0%	0/12	55%	6/11	50%	6/12
55%	6/11	25%	3/12	0%	0/12	50%	6/12
100%	12/12	0%	0/11	0%	0/12	100%	11/11
100%	12/12	0%	0/11	0%	0/9	100%	10/10
100%	12/12	0%	0/12	0%	0/10	92%	11/12
100%	12/12	0%	0/12	0%	0/11	100%	12/12
0%	0/12	80%	8/10	0%	0/11	8%	1/12
100%	12/12	25%	3/12	0%	0/11	100%	11/11
100%	12/12	33%	4/12	25%	3/12	100%	11/11
100%	12/12	0%	0/11	0%	0/10	100%	12/12
100%	11/11	0%	0/12	8%	1/12	100%	12/12
0%	0/12	73%	8/11	0%	0/11	0%	0/12
100%	12/12	0%	0/11	50%	6/12	83%	10/12
0%	0/12	0%	0/12	0%	0/12	0%	0/12
100%	12/12	100%	12/12	64%	7/11	50%	6/12
67%	4/6	50%	2/4	80%	4/5	60%	3/5
100%	12/12	0%	0/12	0%	0/12	83%	10/12
100%	12/12	0%	0/12	0%	0/12	100%	12/12
0%	0/12	8%	1/12	0%	0/12	0%	0/12
0%	0/12	0%	0/12	9%	1/11	0%	0/12
8%	1/12	82%	9/11	92%	11/12	0%	0/12

Soybean Phytophthora Rps Gene Evaluation, 2015

	Isolate	ISA 69 C-2, vir. Rps 7 (Race 1)		ISA 147 F-3, vir. Rps 1b, 7 (Race 2)		Dorrance Race 3	
	Dates Rated	5/19/2015		6/9/2015		9/25/2015	
Differential Name	**Rps gene**	% Dead	# D/T	% Dead	# D/T	% Dead	# D/T
Williams	rps	92%	11/12	100%	11/11	75%	9/12
Union	1a (U)	0%	0/11	0%	0/10	50%	6/12
	1b	n/a	n/a	100%	12/12	0%	0/12
	1c	0%	0/12	9%	1/11	0%	0/11
	1d	9%	1/11	0%	0/12	0%	0/12
	1k	10%	1/10	55%	6/11	0%	0/12
	2	n/a	n/a	33%	4/12	0%	0/11
	3a	0%	0/12	0%	0/11	0%	0/13
	3b	0%	0/11	0%	0/12	0%	0/12
	3c	30%	3/10	80%	8/10	0%	0/10
	4	0%	0/9	0%	0/10	11%	1/9
	5	0%	0/12	0%	0/10	0%	0/10
	6	27%	3/11	17%	2/12	0%	0/12
Harosoy	7	75%	9/12	83%	10/12	73%	8/11
PI399073	8	0%	0/3	10%	1/10	0%	0/10
Strain	**MG / Ent #**						
MN1410 (I)	PTI 1	67%	8/12	91%	10/11	83%	10/12
IA1022 (SCN)	PTI 2	80%	8/10	75%	9/12	0%	0/12
Sheyenne (0)	PTI 3	0%	0/12	9%	1/11	17%	2/12
MLG09-5431032	PTI 4	17%	2/12	25%	3/12	75%	9/12
M08-608014	PTI 5	80%	8/10				
M08-608027	PTI 6	91%	10/11				
M08-608033	PTI 7	75%	9/12				
M09-223022	PTI 8	8%	1/12	0%	0/12	0%	0/12
M09-226039	PTI 9	91%	10/11				
M09-240047	PTI 10	92%	11/12				
M09-240061	PTI 11	0%	0/12	0%	0/12	0%	0/12
M09-241044	PTI 12	83%	10/12				
M09-251149	PTI 13	0%	0/12	50%	6/12	100%	12/12
M09-252085	PTI 14	0%	0/11	33%	4/12	92%	11/12
M09-261079	PTI 15	100%	12/12				
M09-261089	PTI 16	100%	11/11				
M09-305042	PTI 17	100%	12/12				
M09-305119	PTI 18	83%	10/12				
M09-305139	PTI 19	100%	12/12				
M09-335008	PTI 20	8%	1/12	83%	10/12		
M09-335025	PTI 21	0%	0/12	0%	0/12	0%	0/12
M09-340038	PTI 22	0%	0/12	58%	7/12	0%	0/12
M09-340043	PTI 23	17%	2/12	42%	5/12	17%	2/12
M09-340063	PTI 24	8%	1/12	25%	3/12	8%	1/12
M09-343023	PTI 25	82%	9/11				
M09-343025	PTI 26	67%	6/9	83%	10/12		
M10-274172	PTI 27	0%	0/10	9%	1/11	0%	0/12
OAC 13-67C-ChCdn	PTI 28	0%	0/11	0%	0/9	0%	0/11
OAC 13-85C-SCN	PTI 29	100%	10/10				
OAC 13-87C-SCN	PTI 30	92%	11/12				
ORC 3713N	PTI 31	100%	11/11				
ORC 7512N	PTI 32	91%	10/11				
U13-608110	PTI 33	0%	0/11	58%	7/12	0%	0/12
U13-904037	PTI 34	92%	11/12				
U13-905029	PTI 35	0%	0/12	0%	0/10	0%	0/11
U13-910045	PTI 36	0%	0/11	73%	8/11	0%	0/12
U13-911014	PTI 37	0%	0/11	27%	3/11	0%	0/9
U13-912010	PTI 38	0%	0/11	55%	6/11	9%	1/11
U13-912032	PTI 39	0%	0/10	50%	6/12	8%	1/12
U13-913034	PTI 40	0%	0/11	50%	6/12	0%	0/11
U13-916028	PTI 41	100%	10/10				
U13-918042	PTI 42	36%	4/11	73%	8/11	33%	4/12
U13-926082	PTI 43	82%	9/11				

Soybean Phytophthora Rps Gene Evaluation, 2015

ISA 45 B-1 Race 4		Dorrance Race 7		Dorrance Race 17		ISA R2T21 A-1 Race 25	
10/9/2015		10/22/2015		11/9/2015		11/20/2015	
% Dead	# D/T	% Dead	# D/T	% Dead	# D/T	% Dead	# D/T
80%	4/5	100%	9/9	93%	13/14	77%	10/13
100%	11/11	58%	7/12	0%	0/8	58%	7/12
92%	11/12	0%	0/12	92%	11/12	100%	12/12
91%	10/11	0%	0/8	0%	0/8	73%	8/11
25%	3/12	8%	1/12	92%	11/12	0%	0/12
91%	10/11	0%	0/11	0%	0/11	92%	11/12
42%	5/12	80%	8/10	33%	4/12	0%	0/12
0%	0/12	100%	12/12	100%	12/12	0%	0/10
75%	9/12	0%	0/10	17%	2/12	0%	0/12
14%	1/7	80%	4/5	71%	5/7	0%	0/11
0%	0/8	n/a	n/a	50%	4/8	22%	2/9
9%	1/11	100%	8/8	77%	10/13	0%	0/11
10%	1/10	82%	9/11	58%	7/12	0%	0/12
91%	10/11	82%	9/11	60%	6/10	83%	10/12
18%	2/11	0%	0/8	8%	1/12	13%	1/8
100%	12/12	33%	4/12	83%	10/12	75%	9/12
67%	2/3	0%	0/7	67%	4/6	20%	1/5
100%	11/11	9%	1/11	0%	0/12	100%	12/12
100%	12/12	92%	11/12	0%	0/12	83%	10/12
8%	1/12	0%	0/12	8%	1/12	0%	0/12
8%	1/12	8%	1/12	100%	12/12	0%	0/12
100%	12/12	100%	12/12	0%	0/12	100%	12/12
100%	12/12	75%	9/12	0%	0/12	100%	12/12
0%	0/12	0%	0/12	18%	2/11	17%	2/12
100%	12/12	0%	0/12	0%	0/12	75%	9/12
50%	6/12	8%	1/12	0%	0/12	8%	1/12
50%	6/12	0%	0/12	27%	3/11	75%	9/12
100%	11/11	0%	0/8	0%	0/12	83%	10/12
9%	1/11	38%	3/8	13%	1/8	0%	0/10
100%	12/12	0%	0/11	17%	2/12	100%	12/12
100%	12/12	0%	0/6	9%	1/11	82%	9/11
100%	12/12	0%	0/12	27%	3/11	100%	12/12
100%	10/10	0%	0/11	10%	1/10	92%	11/12
90%	9/10	0%	0/10	0%	0/11	89%	8/9
92%	11/12	0%	0/11	0%	0/12	83%	10/12
100%	12/12	0%	0/10	45%	5/11	92%	11/12
100%	12/12	45%	5/11	75%	9/12	82%	9/11

Soybean Phytophthora Rps Gene Evaluation, 2015

	Isolate	ISA 69 C-2, vir. Rps 7 (Race 1)		ISA 147 F-3, vir. Rps 1b, 7 (Race 2)		Dorrance Race 3	
IA2102 (II)	UTII 1	91%	10/11	92%	11/12	67%	8/12
IA1022 (SCN)	UTII 2	64%	7/11	83%	10/12	18%	2/11
IA3024	UTII 3	0%	0/12	33%	4/12	0%	0/11
LD02-4485 (SCN)	UTII 4	50%	5/10	50%	6/12	45%	5/11
AR13-232001	UTII 5	0%	0/12	67%	8/12	0%	0/12
E12020	UTII 6	0%	0/12	42%	5/12	0%	0/12
E12034	UTII 7	100%	12/12				
E12042	UTII 8	36%	4/11	67%	8/12	25%	3/12
E12084	UTII 9	100%	12/12				
LD10-10198	UTII 10	100%	11/11				
LD10-14323	UTII 11	100%	11/11				
LD10-5213a	UTII 12	100%	12/12				
LD11-643	UTII 13	0%	0/12	25%	3/12	0%	0/12
U11-346046	UTII 14	0%	0/12	17%	2/12	0%	0/12
U11-374036	UTII 15	100%	10/10				
U11-376008	UTII 16	91%	10/11				
U11-396034	UTII 17	8%	1/12	36%	4/11	0%	0/12
U11-444079	UTII 18	92%	11/12				
U11-610109	UTII 19	100%	11/11				
U11-614119	UTII 20	11%	1/9	27%	3/11	8%	1/12
U11-619102	UTII 21	90%	9/10				
U11-907098	UTII 22	100%	12/12				
U11-911079	UTII 23	0%	0/10	17%	2/12	0%	0/12
U11-918019	UTII 24	100%	10/10				
U11-920017	UTII 25	0%	0/11	50%	5/10	0%	0/11
U12-905062	UTII 26	100%	12/12				
IA2102 (II)	PTIIA 1	100%	10/10	50%	6/12	73%	8/11
IA1022 (SCN)	PTIIA 2	92%	11/12	55%	6/11	17%	2/12
IA3024	PTIIA 3	0%	0/11	17%	2/12	0%	0/11
AR13-231017	PTIIA 4	0%	0/12	27%	3/11	82%	9/11
AR13-232049	PTIIA 5	0%	0/11	10%	1/10	0%	0/10
AR13-232106	PTIIA 6	0%	0/11	75%	9/12		
AR14-248009	PTIIA 7	36%	4/11	0%	0/11	0%	0/11
AR14-248020	PTIIA 8	0%	0/11	55%	6/11	0%	0/12
E13100	PTIIA 9	92%	11/12				
E13126	PTIIA 10	0%	0/11	42%	5/12	0%	0/12
E13132	PTIIA 11	0%	0/8	90%	9/10		
E13139	PTIIA 12	0%	0/11	17%	2/12	8%	1/12
E13212	PTIIA 13	0%	0/11	9%	1/11	0%	0/12
E13268	PTIIA 14	50%	6/12	100%	11/11		
E13298	PTIIA 15	83%	10/12				
E13345	PTIIA 16	0%	0/11	42%	5/12	0%	0/11
E13364	PTIIA 17	0%	0/11	30%	3/10	9%	1/11
E13369	PTIIA 18	0%	0/9	36%	4/11	0%	0/10
E13370	PTIIA 19	0%	0/12	55%	6/11	0%	0/10
M09-263090	PTIIA 20	67%	8/12	100%	9/9		
M09-263119	PTIIA 21	92%	11/12				
M09-264062	PTIIA 22	0%	0/11	17%	2/12	0%	0/12
M09-278096	PTIIA 23	92%	11/12				
M09-278097	PTIIA 24	100%	11/11				
M09-281098	PTIIA 25	100%	12/12				
IA2102 (II)	PTIIB 1	73%	8/11	91%	10/11	83%	10/12
IA1022 (SCN)	PTIIB 2	60%	6/10	75%	9/12	50%	5/10
IA3024	PTIIB 3	0%	0/11	64%	7/11	0%	0/12
HM13-W155	PTIIB 4	0%	0/12	0%	0/10	0%	0/12
LD12-300	PTIIB 5	0%	0/12	0%	0/12	0%	0/12
MLG09-5302035	PTIIB 6	8%	1/12	33%	4/12	0%	0/12
MLG09-5431014	PTIIB 7	0%	0/12	83%	10/12		
MLG09-5431018	PTIIB 8	0%	0/12	33%	4/12	83%	10/12
ORC 3313N	PTIIB 9	67%	8/12	92%	11/12		
ORC 8512N	PTIIB 10	30%	3/10	80%	8/10		

Soybean Phytophthora Rps Gene Evaluation, 2015

ISA 45 B-1 Race 4		Dorrance Race 7		Dorrance Race 17		ISA R2T21 A-1 Race 25	
100%	12/12	25%	3/12	100%	12/12	100%	10/10
100%	12/12	10%	1/10	40%	2/5	20%	1/5
100%	8/8	0%	0/12	0%	0/12	92%	11/12
100%	12/12	36%	4/11	42%	5/12	100%	11/11
100%	11/11	0%	0/12	9%	1/11	91%	10/11
100%	10/10	0%	0/11	20%	2/10	67%	8/12
100%	12/12	25%	3/12	67%	8/12	100%	12/12
100%	12/12	0%	0/12	0%	0/11	100%	12/12
25%	3/12	17%	2/12	0%	0/11	8%	1/12
100%	12/12	27%	3/11	33%	4/12	100%	12/12
100%	7/7	18%	2/11	18%	2/11	100%	12/12
91%	10/11	0%	0/12	0%	0/9	100%	12/12
91%	10/11	0%	0/10	10%	1/10	45%	5/11
100%	12/12	50%	6/12	100%	12/12	73%	8/11
75%	6/8	0%	0/7	67%	2/3	67%	6/9
100%	12/12	0%	0/12	0%	0/11	92%	11/12
100%	12/12	100%	11/11	0%	0/12	83%	10/12
45%	5/11	0%	0/12	8%	1/12	50%	5/10
8%	1/12	36%	4/11	64%	7/11	0%	0/12
100%	12/12	0%	0/11	9%	1/11	90%	9/10
92%	11/12	10%	1/10	8%	1/12	100%	11/11
70%	7/10	0%	0/11	50%	6/12	50%	6/12
82%	9/11	0%	0/11	8%	1/12	36%	4/11
92%	11/12	0%	0/12	0%	0/12	91%	10/11
80%	8/10	10%	1/10	0%	0/9	25%	2/8
80%	8/10	0%	0/9	10%	1/10	30%	3/10
100%	12/12	0%	0/12	8%	1/12	83%	10/12
67%	8/12	0%	0/12	17%	2/12	36%	4/11
100%	12/12	25%	3/12	100%	12/12	82%	9/11
100%	9/9	0%	0/9	75%	3/4	100%	6/6
100%	11/11	0%	0/12	0%	0/12	92%	11/12
0%	0/12	0%	0/12	8%	1/12	0%	0/12
100%	12/12	0%	0/12	0%	0/10	58%	7/12
91%	10/11	8%	1/12	0%	0/12	100%	11/11
100%	12/12	100%	12/12	0%	0/12	100%	12/12

Soybean Phytophthora Rps Gene Evaluation, 2015

	Isolate	ISA 69 C-2, vir. Rps 7 (Race 1)		ISA 147 F-3, vir. Rps 1b, 7 (Race 2)		Dorrance Race 3	
U13-602142	PTIIB 11	50%	6/12	73%	8/11	73%	8/11
U13-603120	PTIIB 12	0%	0/12	90%	9/10		
U13-604147	PTIIB 13	67%	8/12	91%	10/11		
U13-605132	PTIIB 14	10%	1/10	80%	8/10		
U13-609144	PTIIB 15	18%	2/11	83%	10/12		
U13-612076	PTIIB 16	0%	0/12	17%	2/12	0%	0/12
U13-613037	PTIIB 17	0%	0/11	60%	6/10	0%	0/12
U13-618087	PTIIB 18	83%	10/12				
U13-618123	PTIIB 19	91%	10/11				
U13-908070	PTIIB 20	8%	1/12	17%	2/12	17%	2/12
U13-909086	PTIIB 21	100%	11/11				
U13-910087	PTIIB 22	50%	6/12	67%	8/12	50%	6/12
U13-912040	PTIIB 23	0%	0/12	17%	2/12	0%	0/10
U13-914045	PTIIB 24	0%	0/9	0%	0/12	0%	0/10
U13-929048	PTIIB 25	0%	0/12	25%	3/12	0%	0/10

Soybean Phytophthora Rps Gene Evaluation, 2015

ISA 45 B-1 Race 4		Dorrance Race 7		Dorrance Race 17		ISA R2T21 A-1 Race 25	
100%	12/12	91%	10/11	92%	11/12	100%	12/12
100%	12/12	0%	0/11	0%	0/12	100%	12/12
100%	12/12	0%	0/10	17%	2/12	100%	12/12
100%	12/12	8%	1/12	0%	0/11	91%	10/11
100%	12/12	27%	3/11	55%	6/11	100%	12/12
100%	10/10	0%	0/8	10%	1/10	89%	8/9
100%	10/10	0%	0/9	0%	0/9	80%	8/10
100%	10/10	0%	0/10	0%	0/8	100%	10/10

Soybean Phytophthora Rps Gene Evaluation, 2015

	Isolate	ISA 69 C-2, vir. Rps 7 (Race 1)		ISA 147 F-3, vir. Rps 1b, 7 (Race 2)		Dorrance Race 3	
	Dates Rated	5/20/2015		6/11/2015		9/30/2015	
Differential Name	**Rps gene**	% Dead	# D/T	% Dead	# D/T	% Dead	# D/T
Williams	rps	90%	9/10	100%	11/11	100%	11/11
Union	1a (U)	0%	0/10	0%	0/11	82%	9/11
	1b	n/a	n/a	100%	12/12	17%	2/12
	1c	0%	0/8	13%	1/8	0%	0/13
	1d	0%	0/11	17%	2/12	0%	0/12
	1k	0%	0/10	50%	6/12	0%	0/12
	2	n/a	n/a	27%	3/11	18%	2/11
	3a	0%	0/10	0%	0/11	0%	0/12
	3b	0%	0/12	0%	0/12	0%	0/12
	3c	0%	0/9	50%	4/8	20%	2/10
	4	0%	0/9	0%	0/10	0%	0/9
	5	0%	0/11	0%	0/10	0%	0/12
	6	8%	1/12	8%	1/12	0%	0/11
Harosoy	7	60%	6/10	92%	11/12	82%	9/11
PI399073	8	0%	0/7	0%	0/10	0%	0/11
Strain	**MG / Ent #**						
IA3023 (III)	UTIII 1	0%	0/12	100%	12/12	100%	12/12
IA3024	UTIII 2	0%	0/11	55%	6/11	0%	0/12
IA3048 (SCN)	UTIII 3	0%	0/12	82%	9/11	42%	5/12
LD07-3395bf (SCN)	UTIII 4	0%	0/11	83%	10/12	100%	10/10
AR13-332001	UTIII 5	83%	10/12				
AR13-332029	UTIII 6	100%	11/11				
HM11-W192	UTIII 7	0%	0/11	0%	0/9	0%	0/11
HM12-N069	UTIII 8	58%	7/12	82%	9/11		
HR10-3325	UTIII 9	0%	0/12	50%	6/12	0%	0/11
HR10-3349	UTIII 10	90%	9/10				
LD09-30224	UTIII 11	25%	3/12	83%	10/12		
LD10-10219	UTIII 12	92%	11/12				
LD10-10226	UTIII 13	55%	6/11	100%	11/11		
LD11-10069	UTIII 14	0%	0/10	17%	2/12	0%	0/11
LD11-2170	UTIII 15	0%	0/12	42%	5/12	0%	0/11
LD11-7311	UTIII 16	0%	0/8	64%	7/11	0%	0/12
LD11-9790	UTIII 17	0%	0/9	0%	0/12	0%	0/12
LG12-2177	UTIII 18	0%	0/12	42%	5/12	0%	0/12
U11-377007	UTIII 19	91%	10/11				
U11-396029	UTIII 20	0%	0/12	50%	6/12	8%	1/12
U11-430085	UTIII 21	25%	3/12	64%	7/11	83%	10/12
U11-444083	UTIII 22	22%	2/9	11%	1/9	56%	5/9
U11-494100	UTIII 23	0%	0/12	0%	0/11	0%	0/7
U11-614093	UTIII 24	90%	9/10				
U11-616086	UTIII 25	50%	5/10	36%	4/11	0%	0/9
U11-622148	UTIII 26	14%	1/7	10%	1/10	0%	0/10
IA3023 (III)	PTIIIA 1	100%	12/12	92%	11/12	75%	9/12
IA3024	PTIIIA 2	0%	0/12	9%	1/11	9%	1/11
IA3048 (SCN)	PTIIIA 3	92%	11/12	100%	10/10	73%	8/11
LD07-3395bf (SCN)	PTIIIA 4	80%	8/10	92%	11/12	67%	8/12
AR13-232011	PTIIIA 5	0%	0/11	83%	10/12		
AR13-232073	PTIIIA 6	83%	10/12				
AR13-332048	PTIIIA 7	0%	0/12	8%	1/12	83%	10/12
AR13-332087	PTIIIA 8	50%	6/12	42%	5/12	58%	7/12
DS11-02178	PTIIIA 9	80%	8/10				
DS11-03023	PTIIIA 10	100%	12/12				
DS11-03174	PTIIIA 11	92%	11/12				
DS11-06152	PTIIIA 12	50%	6/12	67%	8/12	50%	6/12
HM11-G011	PTIIIA 13	0%	0/12	0%	0/12	0%	0/12
HM13-R061	PTIIIA 14	0%	0/12	0%	0/12	0%	0/12
HM13-R079	PTIIIA 15	0%	0/12	0%	0/12	0%	0/12
HM13-S072	PTIIIA 16	0%	0/12	0%	0/11	0%	0/11
HM13-T053	PTIIIA 17	0%	0/12	0%	0/12	0%	0/12

Soybean Phytophthora Rps Gene Evaluation, 2015

ISA 45 B-1 Race 4		Dorrance Race 7		Dorrance Race 17		ISA R2T21 A-1 Race 25	
10/14/2015		10/28/2015		11/13/2015		11/23/2015	
% Dead	# D/T	% Dead	# D/T	% Dead	# D/T	% Dead	# D/T
90%	9/10	93%	14/15	75%	9/12	90%	9/10
73%	8/11	92%	11/12	0%	0/12	73%	8/11
92%	11/12	0%	0/12	92%	11/12	82%	9/11
45%	5/11	0%	0/10	0%	0/14	83%	10/12
8%	1/12	0%	0/12	83%	10/12	0%	0/12
80%	8/10	0%	0/11	0%	0/12	82%	9/11
8%	1/12	100%	12/12	75%	9/12	0%	0/12
0%	0/12	100%	12/12	82%	9/11	0%	0/12
17%	2/12	0%	0/12	25%	3/12	0%	0/12
10%	1/10	90%	9/10	86%	12/14	0%	0/9
0%	0/7	100%	10/10	50%	5/10	0%	0/9
14%	1/7	100%	10/10	93%	13/14	10%	1/10
0%	0/12	100%	12/12	50%	6/12	9%	1/11
91%	10/11	83%	10/12	75%	9/12	78%	7/9
0%	0/11	42%	5/12	18%	2/11	8%	1/12
100%	12/12	100%	12/12	92%	11/12	92%	11/12
100%	11/11	0%	0/12	0%	0/12	79%	11/14
100%	12/12	55%	6/11	83%	10/12	82%	9/11
67%	8/12	82%	9/11	75%	9/12	83%	10/12
0%	0/12	0%	0/12	0%	0/11	0%	0/12
92%	11/12	0%	0/12	0%	0/12	100%	12/12
91%	10/11	0%	0/12	0%	0/11	83%	10/12
58%	7/12	0%	0/12	0%	0/12	83%	10/12
92%	11/12	9%	1/11	0%	0/12	91%	10/11
58%	7/12	0%	0/12	0%	0/11	82%	9/11
91%	10/11	0%	0/12	0%	0/11	100%	12/12
92%	11/12	0%	0/12	0%	0/12	100%	10/10
100%	12/12	100%	12/12	20%	2/10	100%	9/9
45%	5/11	17%	2/12	20%	2/10	27%	3/11
27%	3/11	9%	1/11	0%	0/10	17%	2/12
100%	11/11	44%	4/9	18%	2/11	100%	9/9
91%	10/11	0%	0/12	25%	2/8	100%	12/12
92%	11/12	100%	12/12	91%	10/11	100%	12/12
100%	11/11	0%	0/9	0%	0/12	100%	10/10
100%	12/12	100%	12/12	83%	10/12	92%	11/12
83%	10/12	89%	8/9	67%	8/12	70%	7/10
100%	12/12	100%	12/12	0%	0/12	83%	10/12
45%	5/11	45%	5/11	75%	9/12	73%	8/11
17%	2/12	100%	12/12	92%	11/12	58%	7/12
0%	0/12	0%	0/12	0%	0/12	0%	0/12
8%	1/12	0%	0/12	0%	0/12	0%	0/12
0%	0/12	0%	0/12	0%	0/12	0%	0/12
8%	1/12	8%	1/12	0%	0/11	0%	0/12
92%	11/12	0%	0/12	0%	0/12	67%	8/12

Soybean Phytophthora Rps Gene Evaluation, 2015

	Isolate	ISA 69 C-2, vir. Rps 7 (Race 1)		ISA 147 F-3, vir. Rps 1b, 7 (Race 2)		Dorrance Race 3	
HM13-W045	PTIIIA 18	0%	0/12	0%	0/10	0%	0/12
HM13-W098	PTIIIA 19	0%	0/12	17%	2/12	0%	0/12
HM13-W128	PTIIIA 20	0%	0/12	0%	0/12	0%	0/12
K13-1519	PTIIIA 21	0%	0/9	27%	3/11	64%	7/11
K13-1523	PTIIIA 22	50%	4/8	91%	10/11		
LD12-3866	PTIIIA 23	82%	9/11				
SA12-1018	PTIIIA 24	100%	12/12				
SA12-1338	PTIIIA 25	0%	0/12	55%	6/11	0%	0/10
SA12-1340	PTIIIA 26	0%	0/9	75%	6/8		
SA12-1455	PTIIIA 27	91%	10/11				
SA12-1914	PTIIIA 28	0%	0/7	63%	5/8	22%	2/9
IA3023 (III)	PTIIIB 1	100%	12/12	100%	12/12	83%	10/12
IA3024	PTIIIB 2	0%	0/12	92%	12/13	0%	0/9
IA3048 (SCN)	PTIIIB 3	100%	11/11	100%	11/11	75%	9/12
LD07-3395bf (SCN)	PTIIIB 4	100%	11/11	83%	10/12	82%	9/11
HR10-3342	PTIIIB 5	0%	0/11	0%	0/12	0%	0/11
HR10-3487	PTIIIB 6	100%	10/10				
LG13-1006	PTIIIB 7	75%	9/12				
LG13-1107	PTIIIB 8	0%	0/11	92%	11/12		
LG13-2240	PTIIIB 9	0%	0/12	0%	0/12	0%	0/11
LG13-3844	PTIIIB 10	67%	8/12	80%	8/10		
LG13-3861	PTIIIB 11	0%	0/11	0%	0/12	0%	0/11
LG13-4001	PTIIIB 12	0%	0/9	0%	0/12	0%	0/10
LG13-4038	PTIIIB 13	0%	0/11	0%	0/12	0%	0/11
U12-209068	PTIIIB 14	100%	11/11				
U12-330200	PTIIIB 15	100%	10/10				
U12-415209	PTIIIB 16	100%	10/10				
U12-416214	PTIIIB 17	100%	10/10				
U12-428210	PTIIIB 18	100%	11/11				
U12-428214	PTIIIB 19	100%	9/9				
U13-602187	PTIIIB 20	0%	0/9	0%	0/11	0%	0/7
U13-602194	PTIIIB 21	100%	8/8				
U13-605123	PTIIIB 22	0%	0/9	60%	6/10	10%	1/10
U13-614037	PTIIIB 23	100%	12/12				
U13-614123	PTIIIB 24	82%	9/11				
U13-615123	PTIIIB 25	0%	0/9	0%	0/11	0%	0/11
U13-617037	PTIIIB 26	25%	3/12	0%	0/12	0%	0/11
U13-618135	PTIIIB 27	80%	8/10				
U13-931068	PTIIIB 28	10%	1/10	0%	0/11	9%	1/11
LD06-7620 (IV)	UTIV 1	73%	8/11	82%	9/11	83%	10/12
LD00-2817P (L)	UTIV 2	100%	12/12	100%	12/12	83%	10/12
LD07-3395bf (SCN)	UTIV 3	73%	8/11	91%	10/11	55%	6/11
K12-1575	UTIV 4	0%	0/5	90%	9/10	82%	9/11
K12-2333	UTIV 5	0%	0/12	0%	0/11	0%	0/10
LD11-11299	UTIV 6	0%	0/10	0%	0/11	0%	0/11
LG10-3278	UTIV 7	0%	0/11	8%	1/12	0%	0/12
LG11-6759	UTIV 8	100%	12/12				
LG11-6760	UTIV 9	100%	12/12				
LG12-3475	UTIV 10	58%	7/12	92%	11/12		
LG12-3478	UTIV 11	82%	9/11				
LG12-4068	UTIV 12	0%	0/11	0%	0/12	0%	0/10
LG12-4072	UTIV 13	0%	0/12	0%	0/12	0%	0/12
SA10-8471	UTIV 14	73%	8/11	80%	8/10		
LD06-7620 (IV)	PTIV 1	100%	12/12	100%	12/12	67%	8/12
LD00-2817P (L)	PTIV 2	83%	10/12	100%	12/12	92%	11/12
LD07-3395bf (SCN)	PTIV 3	100%	10/10	73%	8/11	92%	11/12
K13-1156	PTIV 4	100%	12/12				
K13-1231	PTIV 5	100%	11/11				
K13-1234	PTIV 6	100%	8/8				
K13-1289	PTIV 7	100%	12/12				
K13-1290	PTIV 8	100%	10/10				

Soybean Phytophthora Rps Gene Evaluation, 2015

ISA 45 B-1 Race 4		Dorrance Race 7		Dorrance Race 17		ISA R2T21 A-1 Race 25	
100%	11/11	0%	0/10	0%	0/12	50%	6/12
75%	9/12	0%	0/12	0%	0/12	75%	9/12
0%	0/12	0%	0/10	0%	0/12	0%	0/11
83%	10/12	82%	9/11	0%	0/12	100%	12/12
100%	11/11	0%	0/11	17%	2/12	91%	10/11
100%	8/8	30%	3/10	22%	2/9	88%	7/8
100%	12/12	91%	10/11	83%	10/12	100%	12/12
100%	11/11	0%	0/10	0%	0/12	100%	10/10
100%	11/11	83%	10/12	100%	12/12	100%	12/12
75%	9/12	91%	10/11	83%	10/12	100%	8/8
100%	10/10	0%	0/12	0%	0/12	100%	12/12
58%	7/12	0%	0/12	0%	0/12	82%	9/11
33%	4/12	0%	0/12	0%	0/12	33%	4/12
100%	12/12	0%	0/11	0%	0/11	100%	12/12
100%	12/12	0%	0/12	0%	0/10	91%	10/11
100%	12/12	0%	0/7	0%	0/11	100%	11/11
92%	11/12	0%	0/11	27%	3/11	91%	10/11
100%	11/11	8%	1/12	0%	0/12	100%	10/10
100%	12/12	0%	0/10	0%	0/12	89%	8/9
100%	11/11	20%	2/10	0%	0/12	100%	12/12
83%	10/12	67%	8/12	83%	10/12	92%	11/12
92%	11/12	100%	12/12	83%	10/12	100%	12/12
82%	9/11	100%	12/12	45%	5/11	91%	10/11
100%	10/10	100%	10/10	0%	0/11	100%	12/12
90%	9/10	0%	0/8	0%	0/9	100%	10/10
70%	7/10	8%	1/12	0%	0/10	90%	9/10
0%	0/12	100%	12/12	92%	11/12	0%	0/12
100%	12/12	0%	0/10	0%	0/12	100%	12/12
100%	12/12	0%	0/12	0%	0/11	100%	12/12
73%	8/11	82%	9/11	83%	10/12	73%	8/11
100%	12/12	100%	12/12	83%	10/12	90%	9/10
83%	10/12	100%	11/11	90%	9/10	100%	12/12

Soybean Phytophthora Rps Gene Evaluation, 2015

	Isolate	ISA 69 C-2, vir. Rps 7 (Race 1)		ISA 147 F-3, vir. Rps 1b, 7 (Race 2)		Dorrance Race 3	
K13-1620	PTIV 9	100%	11/11				
K13-1627	PTIV 10	100%	9/9				
LD12-10534	PTIV 11	100%	12/12				
LG11-6215	PTIV 12	100%	12/12				
LG11-6761	PTIV 13	100%	11/11				
LG12-3935	PTIV 14	0%	0/12	30%	3/10	75%	9/12
LG12-4045	PTIV 15	0%	0/12	0%	0/12	0%	0/12
LG13-3925	PTIV 16	0%	0/11	0%	0/12	0%	0/12
LG13-3981	PTIV 17	100%	12/12				
LG13-3993	PTIV 18	92%	11/12				
LG13-4053	PTIV 19	100%	12/12				
S12-3835	PTIV 20	100%	11/11				
S13-11061	PTIV 21	82%	9/11				
SA12-1394	PTIV 22	100%	11/11				
SA12-1451	PTIV 23	100%	11/11				
SA12-1471	PTIV 24	100%	10/10				

Soybean Phytophthora Rps Gene Evaluation, 2015

ISA 45 B-1 Race 4		Dorrance Race 7		Dorrance Race 17		ISA R2T21 A-1 Race 25	
92%	11/12	92%	11/12	0%	0/11	100%	12/12
75%	9/12	8%	1/12	0%	0/12	77%	10/13
73%	8/11	0%	0/12	0%	0/12	75%	9/12

Soybean Phytophthora Rps Gene Evaluation, 2015

	Isolate	ISA 69 C-2, vir. Rps 7 (Race 1)		ISA 147 F-3, vir. Rps 1b, 7 (Race 2)		Dorrance Race 3	
	Dates Rated	5/21/2015		7/6/2015		12/1/2015	
Differential Name	**Rps gene**	% Dead	# D/T	% Dead	# D/T	% Dead	# D/T
Williams	rps	91%	10/11	100%	10/10	75%	9/12
Union	1a (U)	0%	0/11	92%	11/12	50%	6/12
	1b	n/a	n/a	100%	12/12	0%	0/12
	1c	0%	0/8	80%	8/10	0%	0/12
	1d	18%	2/11	0%	0/12	9%	1/11
	1k	0%	0/7	80%	8/10	0%	0/11
	2	n/a	n/a	91%	10/11	25%	3/12
	3a	0%	0/9	0%	0/10	0%	0/12
	3b	0%	0/11	0%	0/12	0%	0/11
	3c	0%	0/6	42%	5/12	10%	1/10
	4	0%	0/8	10%	1/10	0%	0/5
	5	0%	0/10	25%	2/8	0%	0/15
	6	8%	1/12	0%	0/12	0%	0/11
Harosoy	7	100%	11/11	100%	11/11	55%	6/11
PI399073	8	0%	0/2	0%	0/11	11%	1/9
Strain	**MG / Ent #**						
AG00632 (00)	UT00RR 1	0%	0/11	100%	11/11	0%	0/10
AG00133	UT00RR 2	0%	0/12	92%	11/12	0%	0/12
AG00932	UT00RR 3	20%	2/10	92%	11/12	0%	0/11
ND12-20515	UT00RR 4	36%	4/11	18%	2/11	0%	0/11
ND12-20540	UT00RR 5	42%	5/12	36%	4/11	0%	0/11
ND12-21029	UT00RR 6	27%	3/11	8%	1/12	0%	0/10
ND12-21551	UT00RR 7	22%	2/9	25%	3/12	0%	0/10
ND12-21598	UT00RR 8	100%	11/11				
ND12-21610	UT00RR 9	100%	12/12				
ND12-21663	UT00RR 10	89%	8/9				
ND12-21666	UT00RR 11	50%	5/10	25%	3/12	0%	0/12
ND12-23032	UT00RR 12	92%	11/12				
ND12-23081	UT00RR 13	0%	0/12	75%	9/12	0%	0/12
ND12-23842	UT00RR 14	100%	12/12				
ND12-24081	UT00RR 15	70%	7/10	17%	2/12	0%	0/11
AG0532 (0)	UT0RR 1	0%	0/9	100%	10/10	0%	0/4
AG0231 (E)	UT0RR 2	0%	0/6	100%	9/9	0%	0/12
AG0832	UT0RR 3	0%	0/11	0%	0/10	0%	0/11
AG1234	UT0RR 4	0%	0/12	91%	10/11	0%	0/11
M09-876012	UT0RR 5	91%	10/11				
M09-876048	UT0RR 6	9%	1/11	100%	12/12	0%	0/12
M09-878011	UT0RR 7	67%	8/12	100%	12/12	0%	0/12
M09-878072	UT0RR 8	17%	2/12	100%	11/11	0%	0/12
M09-878087	UT0RR 9	67%	8/12	100%	12/12	17%	2/12
M09-956021	UT0RR 10	9%	1/11	100%	12/12	8%	1/12
M09-957051	UT0RR 11	92%	11/12				
MN1410R2F5-121	UT0RR 12	100%	12/12				
MN1410R2F5-83	UT0RR 13	33%	4/12	100%	12/12	8%	1/12
ND12-20566	UT0RR 14	42%	5/12	36%	4/11	0%	0/12
ND12-20600	UT0RR 15	100%	12/12				
ND12-20611	UT0RR 16	64%	7/11	42%	5/12	0%	0/12
ND12-20915	UT0RR 17	9%	1/11	25%	3/12	0%	0/12
ND12-21077	UT0RR 18	33%	4/12	0%	0/12	0%	0/12
ND12-21092	UT0RR 19	100%	11/11				
ND12-21211	UT0RR 20	0%	0/12	0%	0/10	0%	0/12
ND12-21283	UT0RR 21	100%	12/12				
ND12-21292	UT0RR 22	100%	12/12				
ND12-21575	UT0RR 23	91%	10/11				
ND12-21622	UT0RR 24	30%	3/10	30%	3/10	0%	0/10
ND12-21733	UT0RR 25	11%	1/9	0%	0/12	0%	0/12
ND12-23230	UT0RR 26	0%	0/12	8%	1/12	0%	0/12
ND12-23562	UT0RR 27	0%	0/11	0%	0/12	0%	0/12
ND12-23760	UT0RR 28	36%	4/11	33%	4/12	9%	1/11

Soybean Phytophthora Rps Gene Evaluation, 2015

ISA 45 B-1 Race 4		Dorrance Race 7		Dorrance Race 17		ISA R2T21 A-1 Race 25	
10/16/2015		10/30/2015		11/13/2015		11/25/2015	
% Dead	# D/T	% Dead	# D/T	% Dead	# D/T	% Dead	# D/T
92%	11/12	100%	14/14	79%	11/14	100%	13/13
92%	11/12	92%	11/12	0%	0/15	82%	9/11
92%	11/12	9%	1/11	92%	11/12	100%	12/12
100%	12/12	8%	1/12	7%	1/14	93%	13/14
17%	2/12	33%	4/12	83%	10/12	17%	2/12
83%	10/12	0%	0/11	0%	0/12	100%	12/12
0%	0/11	83%	10/12	42%	5/12	33%	4/12
0%	0/12	100%	11/11	100%	12/12	0%	0/12
73%	8/11	0%	0/12	70%	7/10	0%	0/12
22%	2/9	100%	11/11	100%	8/8	17%	2/12
11%	1/9	91%	10/11	67%	8/12	0%	0/14
40%	4/10	100%	15/15	92%	11/12	7%	1/14
10%	1/10	100%	11/11	58%	7/12	0%	0/12
83%	10/12	100%	11/11	58%	7/12	100%	12/12
0%	0/11	64%	7/11	17%	2/12	8%	1/12
100%	12/12	0%	0/10	36%	4/11	100%	11/11
100%	11/11	0%	0/12	0%	0/12	100%	12/12
100%	12/12	10%	1/10	9%	1/11	92%	11/12
0%	0/11	100%	12/12	100%	12/12	0%	0/12
0%	0/11	100%	11/11	100%	12/12	0%	0/12
0%	0/11	100%	12/12	80%	8/10	8%	1/12
0%	0/12	100%	11/11	100%	12/12	0%	0/12
11%	1/9	92%	11/12	67%	8/12	10%	1/10
92%	11/12	0%	0/12	0%	0/12	100%	11/11
18%	2/11	92%	11/12	80%	8/10	0%	0/10
100%	11/11	10%	1/10	0%	0/4	100%	6/6
92%	11/12	0%	0/7	0%	0/11	100%	12/12
0%	0/12	100%	12/12	100%	12/12	0%	0/12
100%	12/12	0%	0/12	0%	0/12	83%	10/12
100%	12/12	8%	1/12	58%	7/12	92%	11/12
100%	12/12	58%	7/12	58%	7/12	100%	12/12
100%	12/12	25%	3/12	0%	0/11	100%	12/12
100%	12/12	100%	11/11	83%	10/12	100%	12/12
100%	12/12	25%	3/12	8%	1/12	100%	12/12
92%	11/12	42%	5/12	0%	0/12	100%	12/12
75%	9/12	100%	12/12	100%	12/12	0%	0/12
17%	2/12	100%	12/12	91%	10/11	0%	0/12
8%	1/12	92%	11/12	83%	10/12	0%	0/12
9%	1/11	100%	11/11	58%	7/12	0%	0/12
0%	0/12	100%	11/11	0%	0/11	0%	0/9
8%	1/12	100%	12/12	92%	11/12	0%	0/12
8%	1/12	91%	10/11	33%	4/12	0%	0/11
18%	2/11	8%	1/12	0%	0/12	0%	0/11
18%	2/11	0%	0/12	0%	0/12	0%	0/12
73%	8/11	55%	6/11	40%	4/10	58%	7/12

Soybean Phytophthora Rps Gene Evaluation, 2015

	Isolate	ISA 69 C-2, vir. Rps 7 (Race 1)		ISA 147 F-3, vir. Rps 1b, 7 (Race 2)		Dorrance Race 3	
ND12-24175	UT0RR 29	78%	7/9				
AG1733 (I)	UTIRR 1	0%	0/10	100%	12/12	8%	1/12
AG1234 (E)	UTIRR 2	0%	0/12	83%	10/12	0%	0/12
AG2031	UTIRR 3	0%	0/12	92%	11/12	0%	0/10
U07-135601R	UTIRR 4	0%	0/11	100%	12/12	0%	0/12
M09-876026	UTIRR 5	100%	12/12				
M09-876048	UTIRR 6	17%	2/12	100%	12/12	17%	2/12
M09-876062	UTIRR 7	100%	12/12				
M09-877004	UTIRR 8	17%	2/12	100%	12/12	0%	0/12
M09-956047	UTIRR 9	0%	0/11	100%	10/10	0%	0/12
M09-957021	UTIRR 10	0%	0/12	100%	12/12	0%	0/12
M09-957029	UTIRR 11	25%	3/12	100%	12/12	20%	2/10
M09-957075	UTIRR 12	100%	11/11				
MN1410R2F5-117	UTIRR 13	8%	1/12	100%	12/12	0%	0/11
U06-814223R (II)	UTIIRR 1	0%	0/9	100%	11/11	44%	4/9
AG2031 (E)	UTIIRR 2	0%	0/11	100%	12/12	0%	0/11
AG2535	UTIIRR 3	0%	0/11	100%	12/12	0%	0/12
NEX2905A0R (L)	UTIIRR 4	100%	12/12	100%	12/12	45%	5/11
LD12-15064 R1a	UTIIRR 5	0%	0/12	100%	12/12	0%	0/11
LD12-15129 R1a	UTIIRR 6	0%	0/12	83%	10/12	0%	0/12
LD12-15224 R2a	UTIIRR 7	90%	9/10				
LD12-15227 R2a	UTIIRR 8	100%	11/11				
LD12-15229 R2a	UTIIRR 9	18%	2/11	92%	11/12	0%	0/12
LD12-15246 R2a	UTIIRR 10	67%	8/12	70%	7/10	0%	0/12
LD12-15248 R2a	UTIIRR 11	100%	12/12				
M09-877026	UTIIRR 12	50%	6/12	100%	12/12	17%	2/12
M09-956063	UTIIRR 13	8%	1/12	100%	12/12	17%	2/12
M09-957052	UTIIRR 14	9%	1/11	100%	12/12	0%	0/11
U12-909109R	UTIIRR 15	0%	0/11	42%	5/12	0%	0/11
U12-923116R	UTIIRR 16	0%	0/11	91%	10/11	0%	0/12
U03-827101 (III) (SCN)	UTIIIRR 1	0%	0/11	80%	8/10	0%	0/6
AG3334	UTIIIRR 2	0%	0/11	80%	8/10	0%	0/11
AG3832	UTIIIRR 3	0%	0/12	25%	3/12	0%	0/9
NEX2905A0R (E)	UTIIIRR 4	92%	11/12	100%	12/12	67%	8/12
LD11-13802R2	UTIIIRR 5	0%	0/11	100%	12/12	0%	0/10
LD11-14102R	UTIIIRR 6	50%	6/12	100%	12/12	56%	5/9
LD12-15156 R1a	UTIIIRR 7	0%	0/6	100%	9/9	0%	0/7
LD12-15505 R1	UTIIIRR 8	100%	12/12				
LD12-15609 R2	UTIIIRR 9	100%	10/10				
LD12-15753 R2	UTIIIRR 10	100%	11/11				
SA12-1756RR	UTIIIRR 11	10%	1/10	75%	9/12	30%	3/10
AG4033 (IV)	UTIVRR 1	0%	0/9	42%	5/12	0%	0/7
AG3832	UTIVRR 2	0%	0/12	70%	7/10	0%	0/9
AG4232	UTIVRR 3	42%	5/12	100%	12/12	50%	5/10
LD11-13948R	UTIVRR 4	100%	12/12				
S11-10348RR	UTIVRR 5	0%	0/10	100%	12/12	56%	5/9
S13-14661	UTIVRR 6	100%	11/11				
SA11-9478RR	UTIVRR 7	0%	0/9	100%	11/11	70%	7/10

Soybean Phytophthora Rps Gene Evaluation, 2015

ISA 45 B-1 Race 4		Dorrance Race 7		Dorrance Race 17		ISA R2T21 A-1 Race 25	
100%	12/12	0%	0/12	9%	1/11	100%	11/11
91%	10/11	0%	0/12	0%	0/12	100%	11/11
83%	10/12	8%	1/12	0%	0/12	92%	11/12
100%	11/11	0%	0/11	0%	0/4	50%	2/4
100%	11/11	25%	3/12	33%	4/12	91%	10/11
92%	11/12	0%	0/12	25%	3/12	100%	12/12
100%	12/12	0%	0/12	0%	0/11	100%	11/11
100%	12/12	25%	3/12	8%	1/12	100%	12/12
92%	11/12	8%	1/12	8%	1/12	100%	12/12
100%	12/12	0%	0/12	0%	0/12	100%	12/12
100%	12/12	0%	0/9	92%	11/12	100%	12/12
100%	11/11	0%	0/12	0%	0/12	100%	11/11
100%	12/12	8%	1/12	0%	0/10	100%	10/10
100%	12/12	100%	12/12	55%	6/11	100%	12/12
100%	12/12	0%	0/12	0%	0/11	100%	12/12
100%	12/12	0%	0/12	0%	0/11	100%	12/12
100%	12/12	0%	0/12	0%	0/8	92%	11/12
75%	9/12	33%	4/12	11%	1/9	67%	8/12
100%	12/12	25%	3/12	67%	8/12	100%	12/12
100%	12/12	50%	6/12	8%	1/12	100%	12/12
100%	12/12	0%	0/12	8%	1/12	83%	10/12
83%	10/12	8%	1/12	0%	0/12	100%	12/12
100%	12/12	0%	0/12	0%	0/12	67%	8/12
100%	12/12	0%	0/10	0%	0/11	100%	9/9
100%	11/11	0%	0/12	0%	0/9	82%	9/11
100%	12/12	0%	0/12	0%	0/10	60%	6/10
100%	12/12	100%	11/11	100%	12/12	92%	11/12
100%	11/11	0%	0/12	0%	0/9	100%	11/11
100%	12/12	50%	6/12	45%	5/11	100%	11/11
100%	12/12	0%	0/10	0%	0/7	100%	9/9
100%	9/9	60%	6/10	0%	0/8	100%	9/9
78%	7/9	0%	0/8	0%	0/10	88%	7/8
100%	10/10	0%	0/9	0%	0/8	80%	8/10
100%	10/10	100%	9/9	0%	0/10	88%	7/8
100%	9/9	100%	10/10	0%	0/9	63%	5/8
100%	10/10	100%	10/10	0%	0/10	90%	9/10

Identification of Parent Strains, 2015

Strain	Parentage
A1	Anoka x Mack
435.TCS	From Schillinger Seed Co.
4J105-3-4	
A00-711024	A95- 485020 x IA2036
A04-543037	Unknown
A04-545045	Pioneer 93B86 x A00-711022
A05-112034	Unknown
A06-711010	
A72-507	Roanoke x Hawkeye
A96-492041	Northrup King S24-92 x Northrup King S19-90
A97-553017	Pioneer YB280 x (Pioneer YB280 x A29)
AgriPro 98180	Unknown
AR05-250002	(IA2050 x ((Pioneer P9303 x (Fayette x Asgrow A3659)) x AP1995))
AR05-250103	Syngenta S10-F2 x Dwight
AR05-250110	Loda x Syngenta S10-F2
AR06-264007	Loda x Syngenta S10-F2
AR07-176037	IAR2001BSR x Soygentics 96-2205
AR07-176049	IA1006 x LS99-2235
AR07-176075	Golden Harvest 24040 x Golden Harvest H-2285
AR07-276077	Golden Harvest 24040 x Golden Harvest H-2285
AR07-376031	Syngenta S16-Y6 x LS99-2235
AR2	
Ashtabula	ND95-952 x Council
Barnes	ND88-800 x Pioneer 9061
BD22115-13	[Amsoy x Portage] x Holmberg 840-7-3
Cavalier	Sargent x ND96-1006
CL06-121119	
CL0J173-6-8	Kottman x Dwight
Colby	Unknown
Dairyland 75213-72	98820-33 x A3237
Dairyland 75221	Dairyland 98820-33 x A3237
Dairyland 75517	
Dairyland 98822	Unknown
Dairyland 99540	Unknown
Dairyland DSR-365	Unknown
Dwight	Jack x A86-303014
E00003	Agripro AP1995 x Pioneer P9281
E05030	Unknown
E05053	Unknown
E06161	
E06936CNYLD	
E07051	

Identification of Parent Strains, 2015

Strain	Parentage
E09902	
E10919	
E10928	
F3:4LG00-8298	
Golden Harvest H-2285	Unknown
H-2885	Unknown
Hamlin	Unknown
Harmony	(Maple Presto x Williams) x Weber
HD Goshen	
Hefeng 53	
Hendricks	Unknown
HF04-0648	HS93- 4118 x (IA3023 x PI 567.374)
HM8536	HW79149 x Higan
HS5-3417	IA3023 x HS99-4045
HS5W-362	Dilworth x (Kottman x PI399.073)
HS6-3705	HS99-4256 x Dilworth
HS6-8718	C2033 x HS1-423
HS7-6650	IA3017 x Dennison
HS7-6948	HS1-3661 x (Wyandot x Md99-173-11-17)
HS7W-94	HS1-5870 x OHFG4
HS7W-82	HS1-3641 x HS1-7116
HS7W-194	HS1-3641 x HS1-3907
HS8-3547	Dennison^2 x HFPR-4
HS93-4118	IA2007 x Dairyland DSR 304
HW79149	[A72-507(6) x A1] x [A72-507(5) x PI 82.263.2]
IA2064	Unknown
IA2068	Unknown
IA3010	Unknown
IA3023	Dairyland DSR-365 x Pioneer P9381
IAR2001 BSR	Unknown
IAR2101 SCN	Unknown
Ina	Unknown
Jilin No.69	
Jilin No.85	
K07-1544	Unknown
K08-5026	
Katrina	SW33- 08 x S15-20
LaMoure	LaMoure SD92 -1323 x M90-370
LD00-2817P	Ina x Dwight
LD00-3309	Maverick x Dwight
LD00-3309(5)	Maverick x Dwight
LD01-5907	Ina x IA3010

Identification of Parent Strains, 2015

Strain	Parentage
LD01-7323	LN95-5454 x Dwight
LD02-4485	M90-184111 x IA3010
LD02-5124W	A97-973002 x Loda
LD02-7222P	Macon x LS93- 0375
LD04-11056	U96-2208 x Syngenta S38-T8
LD04-13265	Syngenta S32-Z3 x U9-205355
LD05-1540	Syngenta S25-J5 x SS98-3403
LD05-16413	Dwight(3) x (Dowling x Loda)
LD05-3171	U97-201128 x Syngenta S42-H1
LD05-3230	Syngenta S25-J5 x LD00-3296
LD06-14187R	LD00-9276 x LD00-3309
LD06-2009	U97-201128 x U98-307162
LD06-30505Ra	LD02-4485(3) x ((SD01-3603R (2) x (Dowling x Loda))
LD06-7596	Unknown IA3023 x LD00- 3309
LD06-7620	IA3023 x LD00-3309
LD06-7984	Macon x LD01-5907
LD07-3395 Reselection	Maverick x Dwight
LD07-3419	Syngenta WW115926 x LD00-2817
LD07-5065	Dwight x SCN soja BC3F1
LD08-12459a	LD05-16413 x [Dwight x (Ina x PI 200538)]
LD09-17170 R2	LD00-3309 x Monsanto RR2
LD09-17254 R2	LD00-3309 x Monsanto RR2
LDX07-178a-1-7	LD05-16638 x (Dwight x (Ina x PI 200538))
LG00-3372	PI561319A x PI547477
LG00-6182	PI561319A x PI574477
LG01-4918	Macon x PI507295
LG01-7728	Williams 82 x (F1 Williams x PI479767)
LG02-4198	LG94-1133 x LG93-7564
LG03-1686	Rend x LG97-7363
LG03-2087	Sherman x LG84-1096
LG03-3020	LG96-1711 x LG92-4208
LG03-3780	LG94-4396 x LG96-3159
LG03-6296	PI592934 x LG94-1133
LG04-3765	HS93-4118 x LG97-9912
LG04-4468	LG97-8856 x IA 3010
LG04-5187	LG97-9384 x LG97-9301
LG04-5196	LG97-9384 x LG97-9301
LG04-5372	Rend x LG97-9301
LG04-5988	HS93-4118 x LG97-9912
LG04-5993	HS93-4118 x LG97-9912
LG04-6000	HS93-4118 x LG97-9912
LG04-6005	HS93-4118 x LG97-9912

Identification of Parent Strains, 2015

Strain	Parentage
LG05-4092	C1979 x LG98-1445
LG05-4229	LG94-1128 x LG98-5629
LG05-4550	LG97-9701 x C1979
LG05-4557	LG97-9701 x C1979
LG06-2284	IA3023 x LG98-1605
LG06-2354	LG97-9301 x S25-J5
LG06-5920	LG00-3372 x LD00-3309
LG07-2309	IA3023 x LG01-7728
LG09-5256 Reselection	LG04-5372 x LG04-3765
LG82-8224	PI68658 x Lawrence
LG84-1096	PI297515 x PI290126B
LG84-1269	PI227333 x PI91730-1
LG84-1272	PI227333 x PI91730-1
LG85-2846	PI404157 x PI384469A
LG85-3343	PI361064 x PI407710
LG86-2734	PI424195B x PI361066A
LG87-1991	PI189930 x PI68600
LG88-2248	PI438151 x A78-123018
LG88-3146	PI427099 x PI445830
LG88-8958	PI253665D x PI283331
LG89-1501	PI68508 x PI384471
LG89-1525	PI90566-1 x L74-3897
LG89-771	LG85-3343 x LG85-2846
LG89-773	LG85-3343 x LG85-2846
LG89-7793	PI391594 x Century
LG90-13144	LG82-8224 x Hobbit
LG90-2179	PI437851A x Ripley
LG90-4181	PI436682 x Lawrence
LG91-7431	LG84-1272 x Elgin
LG92-4208	LG84-1269 x Chamberlain
LG93-7564	LG85-3343 x LG86-2734
LG94-1128	LG85-3343 x LG87-1991
LG94-1133	LG85-3343 x LG87-1991
LG96-1711	LG88-3146 x LG88-2248
LG97-7363	LG90-2179 x LG88-3146
LG97-8856	LG90-13144 x LG88-3146
LG97-9301	LG89-7793 x LG88-8958
LG97-9384	LG90-2179 x A3322
LG97-9701	LG89-1525 x A3322
LG97-9912	LG90-4181 x A3322
LG98-1445	LG91-7431 x 9273
LG98-1605	LG88-8958 x LG89-771

Identification of Parent Strains, 2015

Strain	Parentage
LG98-5629	LG89-1501 x LG89-773
M00-110002	U96-2408 x MN0302
M00-30755	M92-270029 x M93-313185
M01-228058	M92-285024 x PI445837
M01-242042	MN0302 x PI495831
M01-315029	A99-216031 x M95-123023
M02-141020	MN0302 x F1(M01-303)
M02-328023	MN0304 x A00-712012
M02-333013	M94-162105 x MN0304
M02-391112	IA1008 x M96-356062
M02-399012	MN0302 x PI437610A
M02-403070	Parker x PI227565
M02-495076	LG98-1605 x MN0302
M03-160082	MN1302 x MN0091
M03-163106	MN1009 x MN0304
M03-198033	PI437167C x MN0302
M03-201035	Lambert x PI437994
M03-276016	MN0071 x IA2062
M03-289027	MN0902CN x A02-381003
M03-381022	MN0902CN x LG98-1445
M04-263004	PI358319 x MTC00-111-56-24
M04-267028	Lambert x PI291290
M61-224	Merit x Harosoy
M72-3	Evans x Hodgson
M73-62	M61-224 x PI 297.518
M82-996	M72-3 x Peterson 1677
M87-346	M73-62 x Simpson
M87-727	M73-62 x Simpson
M90-1437	Dawson x HM8536
M90-184111	L85P-558 x M86-1973
M92-270029	M87-727 x M87-346
M93-313185	Agassiz x M90-1437
M94-161045	IA1006 x Agassiz
MN0071	Harmony x OT92-8
MN0094SP	MN1404SP x OAC98-04
MN0101	M90-137050 x Traill
MN0107	MN0302 x Daksoy
MN0302	M84-93 x Archer
MN0304	Archer x Glacier
MN0307SP	IA2019 x MN1201SP
MN0504	OAC98-01 x Lambert
MN0606CN	MN0901 x MN0902CN

Identification of Parent Strains, 2015

Strain	Parentage
MN0901	M83-766 x Leslie
MN0902CN	Jack x Alpha
MN1013	MN0302 x PI495831
MN1410	Unknown
MN1606SP	M90-764 x M90-2144
MN1701CN	M90-184111 x MN0902CN (M92-1571)
MN1805 SP	M93-402259 x M93-901096
MS05-112002	M83-90 x Archer
MS05-119006	M90-350 x MN1302
MS05-143003	ORC-0302 x MN1401
MTC00-112-49-9	N94-7784 x MN0302
MTC00-113-61-7	NTCPR94-5157 x MN0302
MTC03-23-1001	
ND03-5441	Barnes x MN9002CN
ND03-5672	Barnes x SD96-33
ND03-6793	Walsh x AC Orford
ND03-7267	Walsh x MN9002CN
ND03-7566	Barnes x MN9002CN
ND04-11111	OAC Atwood x (Barnes x IA1009)
ND04-11730	M94-161045 x (Barnes x IA1009)
ND04-12689	Sargent x MN0902CN
ND05-17644	MN302 x [ND95- 1564 x MN201]
ND05-17649	MN302 x [ND95- 1564 x MN201]
ND07-18569	RG607RR (BC4) x Dowling
ND88-800	Evans x Maple Amber
ND95-1564	Parker x Pionner 9061
ND95-6634	Alpha x OT90-9
ND95-952	ND88-800 x Pioneer 9092
NE 1900	MSBP1
Nenfeng 16	
Northrup King S15-50	[Mack x Corsoy x Pride B216(2)] x [Northrup King S1492 x Lee74]
OAC Champion	
OAC Lakeview	Unknown
OAC Wallace	Unknown
OAC01-26	Unknown
OAC05-02	Unknown
OAC05-17	Unknown
OAC05-30	Unknown
OAC06-02	Secan 00-35 x PS55
OAC06-32	
OAC07-26C	ND95-1564 x OAC Champion
OHS203	Dilworth x HS99-4045

Identification of Parent Strains, 2015

Strain	Parentage
OHS204	IA3023 x HS99-4045
OHS303	Unknown
OHS305	Unknown
OHS306	HS98-3409 x HS99-5021
OT90-9	Thompson 7803 x BD22115-13
OT92-8	Baron x Maple Donovan
PI200538	Unknown
PI384469A	
PI416805	
PI567354	
PI578425	
PI612717	
PI651389B	
Pioneer 9061	Wells x Pioneer 1677
Pioneer 9071	Pioneer 9061 x Pioneer 9181
Pioneer 9092	Pioneer 9061 x Northrup King S15-50
Pioneer 91M10	Unknown
Pioneer 91M10	Unknown
Pioneer P9381	(Essex x L69-4143) x Sprite
Pioneer YB33A99	Unknown
PR33	Rust Resistant Line from Georgia
PS55	Unknown
R01-52F	Unknown
RG200RR	Traill (4) x Resnick (RR1)
RG405RR	Barnes (4) x Resnick (RR1)
RG607RR	SD1091RR x Barnes
RG7008RR	RG200RR x ND95-6634
S04-20912RR	S98-3905 x S98-3940-04RR
S05-11482	S99-2281 x S00-9985-03
S06-10572RR	S03-390RR x S02-6816
S07-15722RR	LG00-3372 X S03-058RR
S07-3614	S03-4127 X S01-8401
S07-5049	S03-4152 X HC99-2533

Uniform and Preliminary Test Locations Monthly Rainfall Data, 2015

Location		Monthly Rainfall					
		May	June	July	August	September	October
IA	Ames	4.4	7.1	7.9	10.1	3.8	1.6
	Crawfordsville	4.7	6.9	6.8	3.4	3.9	1.9
	Kanawha	6.7	6.0	3.3	7.8	4.1	1.5
IL	Arthur	4.4	7.2	1.5	3.7	2.3	1.2
	Brownstown	5.3	12.0	4.8	6.5	4.8	0.7
	Carbondale	4.2	8.9	6.5	2.7	4.3	1.3
	DeKalb	6.2	7.8	3.2	2.9	2.6	2.0
	Ivesdale	5.0	7.2	1.5	2.2	3.4	1.6
	Urbana	5.4	10.0	3.7	3.3	6.3	1.1
IN	Butlereville	2.2	7.8	9.6	3.3	0.8	4.6
	Wanatah	4.5	6.2	5.2	4.7	3.6	1.6
	West Lafayette	4.1	10.0	7.2	1.2	3.4	1.8
KS	Manhattan	10.7	6.1	5.4	3.6	3.8	0.7
	Onaga	8.3	8.4	3.0	1.3	1.7	0.9
	Ottawa	12.3	4.5	5.7	2.7	2.7	1.1
MI	Ingham Co.	3.7	6.2	2.4	4.2	2.4	2.0
	Lenawee Co.	4.0	10.7	3.2	1.5	2.9	2.0
	Saginaw Co.	4.1	3.4	2.1	3.9	5.2	2.6
MN	Crookston	2.7	3.7	5.0	1.1	0.3	1.7
	Lamberton	5.5	5.1	3.8	4.5	3.4	1.6
	Moorehead	7.9	2.6	3.3	2.8	1.1	1.4
	Morris	7.8	2.0	3.7	6.3	1.3	1.6
	Rosemount	4.5	6.1	7.3	3.9	5.1	3.4
	Shelly	4.4	4.5	2.7	1.1	0.7	1.6
	Waseca	4.8	7.6	7.4	6.0	5.9	1.3
	Westbrook	6.4	5.4	5.4	5.3	3.5	1.1
MO	Columbia	5.1	7.8	11.3	3.0	0.7	1.4
	Portageville	6.0	4.1	5.1	2.5	0.9	3.2
ND	Casselton	8.4	4.1	2.0	2.3	0.8	1.4
	Fairmount	6.2	3.0	2.2	1.0	0.8	1.3
	Northwood	4.9	4.1	3.7	1.8	0.6	1.3
NE	Clay Center	3.9	8.6	6.3	1.9	1.6	1.3
	Cotesfield	2.8	5.9	3.2	1.8	4.5	1.5
	Hooper	4.8	4.3	9.4	5.8	4.8	0.6
	Phillips	3.7	5.7	3.0	1.2	3.3	1.3
	Stevens Creek	11.2	6.1	3.7	5.9	12.6	0.5
	Worms	3.0	5.3	2.0	2.6	4.3	1.5
	Wymore	6.3	12.3	3.9	2.0	3.0	0.7
OH	Hoytville	4.4	7.9	7.2	3.0	1.7	2.3
	So. Charleston	2.1	8.8	5.2	2.9	1.4	2.7
	Wooster	5.3	7.7	4.5	0.9	4.2	3.3

Uniform and Preliminary Test Locations Monthly Rainfall Data, 2015

Location		Monthly Rainfall					
		May	June	July	August	September	October
ONT	Chatham						
	Elora	0.4	9.2	3.2	4.4	1.3	4.0
	Ottawa	2.0	3.3	1.7	2.3	2.6	2.0
	Ridgetown						
	St. Pauls						
	Woodstock	2.2	5.7	1.2	2.2	4.5	3.5
QUE	La Pocatiere	3.6	3.5	4.3	1.6	2.2	2.3
	Saint Hyacinthe	5.4	5.7	5.2	4.6	5.0	4.0
	St. Mathieu de Beloeil	2.4	3.6	3.2	2.9	3.6	1.9
TN	Jackson	5.4	5.4	4.7	4.4	3.5	3.0

Uniform and Preliminary Test Locations, 2015

Location		Tests Conducted By:	Uniform Tests						Preliminary Tests					Uniform Tests RR					
			00	0	I	II	III	IV	0	I	II	III	IV	00	0	I	II	III	IV
IA	Ames	S. Cianzio				X					X								
	Boone Co.	A. Singh			X	X	X			X	X	X							
	Crawfordsville	S. Cianzio					X					X							
	Kanawha	S. Cianzio			X					X									
IL	Arthur	B. Diers/T. Cary					X												
	Brownstown	B. Diers/T. Cary						**X**											
	Carbondale	S. Kantartzi						X					X						
	DeKalb	B. Diers/T. Cary				**X**											**X**		
	Ivesdale	Nelson						**X**											
	Urbana	B. Diers/T. Cary				**X**	X	**X**			**X**	**X**	**X**				**X**	**X**	**X**
IN	Butlereville	G. L. Nowling					**X**	**X**					**X**					**X**	**X**
	Wanatah	G. L. Nowling			**X**	**X**	**X**									**X**	**X**	X	
	West Lafayette	G. L. Nowling			**X**	**X**	**X**	**X**		**X**	**X**	**X**	**X**			**X**	**X**	**X**	**X**
KS	Manhattan	W. Schapaugh Jr.					**X**	**X**				**X**	**X**						
	Onaga	W. Schapaugh Jr.					X	X					X						
	Ottawa	W. Schapaugh Jr.					X	X				X	X						
MI	Ingham Co.	D. Wang / J. Boyse			X	X				X	X					X	X		
	Lenawee Co.	D. Wang / J. Boyse				X											X		
	Saginaw Co.	D. Wang / J. Boyse			X											X			
MN	Crookston	J. Orf	**X**											**X**					
	Lamberton	J. Orf			X	X				**X**	X					**X**	**X**		
	Moorehead	J. Orf	**X**											**X**					
	Morris	J. Orf		**X**					**X**						**X**				
	Rosemount	J. Orf		X					**X**						**X**				
	Shelly	J. Orf	X																
	Waseca	J. Orf			**X**	X				**X**	X					X	**X**		
	Westbrook	J. Orf															**X**		
MO	Columbia	A. Scaboo						X					X						
	Portageville (Clay)	G. Shannon					**X**	**X**					**X**					**X**	**X**
	Portageville (Loam)	G. Shannon					X	X										X	X
ND	Casselton	T. Helms	X	**X**					**X**					**X**	**X**				
	Fairmount	T. Helms													X				
	Northwood	T. Helms	X											X					
NE	Clay Center	G. Graef					X					**X**						X	
	Cotesfield	G. Graef			X	X				**X**	**X**					X	X		
	Hooper	G. Graef			X	X				**X**	**X**					X	X		
	Phillips	G. Graef																X	
	Stevens Creek	G. Graef					X					X							
	Worms	G. Graef			X	X				X	X					X	X		
	Wymore	G. Graef					X					X						X	
OH	Hoytville	L. McHale/McIntyre				**X**	**X**				**X**	**X**							
	So. Charleston	L. McHale/Feller					X	X				X							
	Wooster	L. McHale/McIntyre				**X**					**X**								

Uniform and Preliminary Test Locations, 2015

Location		Tests Conducted By:	Uniform Tests						Preliminary Tests					Uniform Tests RR					
			00	0	I	II	III	IV	0	I	II	III	IV	00	0	I	II	III	IV
ONT	Chatham	M. Eskandari/D. Fischer				X					X								
	Elora	I. Rajcan	X						X										
	Ottawa	E. Cober	X	X															
	Ridgetown	M. Eskandari/D. Fischer			X					X									
	St. Pauls	I. Rajcan			X					X									
	Woodstock	I. Rajcan		X	X				X										
QUE	La Pocatiere	J. Auclair	X																
	Saint Hyacinthe	J. Auclair			X					X					X	X			
	St. Mathieu de Beloeil	L. O'Donoughue	X	X					X										
TN	Jackson	P. Arelli						X					X						
X = Location With Agronomic Data			9	6	15	16	17	14	6	12	13	11	10	4	5	10	12	9	5
X = Location With Seed Compostion Data			5	5	7	7	6	8	5	8	7	5	6	3	4	4	7	4	4

UNIFORM TEST 00, 2015

Ent.	Strain	Parentage	Seed Source	Previous Testing	Gen. Comp.	Unique Traits
1.	MN0071 (00)	Harmony x OT92-8	Orf	15	F5	Rps1
2.	MN0095 (0)	M92-270029 x M93-313185	Orf	7	F5	Rps1
3.	ND Henson	ND03-5672 x Hamlin	Helms	2	F4	
4.	M06-338016	ND02-971 x MN0071	Orf	3	F5	Oil
5.	M07-260009	NE1900 x MN0107	Orf	2	F5	
6.	M08-271313	M03-276016 x IA2064	Orf	1	F5	
7.	M09-240029	M03-163106 x OAC06-32	Orf		F5	Phyto
8.	M09-242072	MN0107 x MN0101	Orf		F5	Yield
9.	M09-248030	MN0504 x A06-711010	Orf		F5	Yield
10.	M09-340080	M02-495076 x MN1013	Orf		F5	Diversity
11.	M09-341061	PI651389B x CAVILIER	Orf		F5	Wilt
12.	M09-519014	MTC00-113-61-7 x M04-263004	Orf		F5	Wilt
13.	M09-525037	MN0302 x MS05-143003	Orf		F5	IDC
14.	ND11-16587	Ashtabula x Sheyenne	Helms	1	F4	
15.	ND11-19225	Ashtabula x Sheyenne	Helms	1	F4	
16.	ND11-19539	Ashtabula x Sheyenne	Helms	1	F4	
17.	ND11-19725	Ashtabula x Sheyenne	Helms	1	F4	
18.	ND12-13257	ND04-11730 x Ashtabula	Helms		F4	
19.	ND12-13260	ND04-11730 x Ashtabula	Helms		F4	
20.	ND12-15623	M00-30755 x ND05-17649	Helms		F4	
21.	ND12-15628	M00-30755 x ND05-17649	Helms		F4	
22.	ND12-15647	M00-30755 x ND05-17649	Helms		F4	
23.	ND12-17224	Sheyenne x ND04-17644	Helms		F4	
24.	ND12-19525	Cavalier x [Wallace x Sheyenne]	Helms		F4	
25.	OAC 13-05C	OAC Lakeview x OAC Wallace	Rajcan	1	F5	

UNIFORM TEST 00, 2015

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	IDC Score Crookston	IDC Score Moorehead	IDC Score Shelly	Shattering Score Manhattan	Green Stem Score St Mathieu de Beloeil	Green Stem Score Ottawa
MN0071 (00)	PTRDYBrI	1.8	1.8	1.8	1.0	2.0	2.0
MN0095 (0)	PGTSYDibI	1.3	1.3	1.3	1.0	1.0	3.0
ND Henson	PTBILBI	2.0	2.0	2.0	1.0	1.0	3.0
M06-338016	P+WGTDYDbfI	2.3	2.3	2.3	1.0	1.3	4.0
M07-260009	P+WGTSYYI	3.3	3.3	3.3	1.0	2.0	3.7
M08-271313	PTBSYBI	2.0	2.0	2.0	1.0	2.7	3.7
M09-240029	WTBSYBI	1.5	1.5	1.5	1.0	1.3	3.7
M09-242072	PGTIYYI	2.3	2.3	2.3	1.0	2.3	3.0
M09-248030	P+WGYSYLbfI	1.3	1.3	1.3	1.0	4.0	4.0
M09-340080	PGBDYGI	2.0	2.0	2.0	1.0	2.3	4.0
M09-341061	PTBIYYI	2.8	2.8	2.8	2.0	2.7	3.7
M09-519014	PGTDYDibI	2.3	2.3	2.3	2.0	3.0	4.0
M09-525037	PGBSYBrI	1.8	1.8	1.8	2.0	1.7	3.7
ND11-16587	PGTDYBfI	3.3	3.3	3.3	1.0	2.0	3.0
ND11-19225	PGTDYYI	2.5	2.5	2.5	2.0	1.3	3.0
ND11-19539	WTBIYGI	1.8	1.8	1.8	1.0	2.0	3.7
ND11-19725	PTBIYBrI	3.0	3.0	3.0	1.0	1.0	3.0
ND12-13257	PGTDYYI	1.8	1.8	1.8	1.0	1.7	3.0
ND12-13260	PGTDYYI	1.5	1.5	1.5	1.0	1.3	3.3
ND12-15623	PGTSYGI	1.3	1.3	1.3	1.0	1.3	2.0
ND12-15628	PGTIYGI	1.5	1.5	1.5	1.0	1.7	2.7
ND12-15647	PGTIYBfI	1.3	1.3	1.3	1.0	1.3	3.0
ND12-17224	PGTSYYI	1.3	1.3	1.3	2.0	2.0	3.0
ND12-19525	PTBIYGI	2.5	2.5	2.5	1.0	1.0	2.3
OAC 13-05C	PTBDYGI	2.3	2.3	2.3	2.0	1.7	3.0

UNIFORM TEST 00, 2015

REGIONAL SUMMARY

No. of Tests Strain	Yield 9 bu/a	Rank 9 No.	Maturity 9 Date	Lodging 9 Score	Plant Height 8 In	Seed Size 8 g/100	Seed Quality 6 Score	Composition Protein 5 %	 Oil 5 %
MN0071 (00)	45.4	25	9/11	1.0	25	14.7	1.7	36.8	20.1
MN0095 (0)	50.6	18	5.4	1.0	25	12.0	1.5	37.6	19.0
ND Henson	53.8	6	4.7	1.0	23	15.0	1.5	38.3	19.4
M06-338016	53.5	9	8.9	1.2	28	14.1	1.7	36.6	19.8
M07-260009	53.8	6	7.4	1.1	29	14.3	1.5	37.4	19.3
M08-271313	51.4	16	6.3	1.0	23	15.6	1.8	35.7	20.8
M09-240029	54.5	3	7.0	1.2	26	16.0	1.6	36.7	20.1
M09-242072	50.9	17	7.3	1.0	25	14.4	1.5	39.0	18.7
M09-248030	47.1	24	11.2	1.0	25	16.4	1.7	37.3	19.3
M09-340080	54.1	4	11.2	1.1	29	14.8	1.6	39.9	19.0
M09-341061	51.9	15	9.2	1.2	27	15.5	1.6	37.4	18.4
M09-519014	53.9	5	10.0	1.0	30	13.6	1.7	35.8	20.1
M09-525037	53.7	8	9.5	1.1	31	16.9	1.6	37.4	20.2
ND11-16587	53.0	11	7.0	1.0	26	14.6	1.6	36.2	20.4
ND11-19225	47.5	23	3.0	1.0	26	14.6	2.0	36.4	20.1
ND11-19539	48.0	22	4.4	1.0	22	14.6	1.7	37.6	19.3
ND11-19725	52.0	13	6.7	1.3	28	13.8	1.6	36.8	20.1
ND12-13257	50.5	19	6.8	1.0	24	14.2	1.8	36.8	20.2
ND12-13260	52.7	12	5.4	1.0	25	14.2	1.8	36.2	20.6
ND12-15623	52.0	13	1.2	1.0	27	12.5	1.7	37.4	19.1
ND12-15628	50.5	19	2.0	1.0	27	12.2	1.8	37.2	19.2
ND12-15647	55.0	2	5.3	1.0	26	12.5	1.8	37.0	19.5
ND12-17224	53.2	10	4.9	1.0	27	12.2	1.7	36.7	19.5
ND12-19525	48.7	21	1.2	1.0	24	16.2	1.7	37.6	18.8
OAC 13-05C	56.7	1	5.3	1.0	25	16.7	1.6	37.1	19.4
Mean	51.9			1.0	26.0	15.3	1.8		
C.V. (%)	25.8			23.5	18.2	20.2	23.7		
L.S.D. (5%)	7.1			0.1	2.6	2.1	0.4		

112.8 Days After Planting

UNIFORM TEST 00, 2015

2014-2015 2-YEAR MEAN

No. of Tests Strain	Yield 17 bu/a	Rank 17 No.	Maturity 18 Date	Lodging 15 Score	Plant Height 16 In.	Seed Size 16 g/100	Seed Quality 13 Score	Composition Protein 12 %	 Oil 12 %
MN0071 (00)	46.0	11	9/12	1.0	24	15.4	1.7	35.3	19.6
MN0095 (0)	52.0	9	5.5	1.1	24	12.8	1.6	35.9	18.8
ND Henson	53.4	6	4.4	1.2	24	15.6	1.5	36.2	19.1
M06-338016	54.6	3	9.2	1.3	28	14.8	1.9	34.9	19.3
M07-260009	54.2	4	7.4	1.2	28	14.9	1.6	36.0	18.7
M08-271313	52.7	7	6.2	1.1	24	16.3	2.0	34.4	20.2
ND11-16587	54.8	2	7.6	1.2	25	15.6	1.8	34.9	19.9
ND11-19225	50.2	10	3.8	1.2	26	15.4	2.1	34.8	19.5
ND11-19539	52.2	8	4.4	1.0	22	15.4	2.0	36.1	18.8
ND11-19725	54.0	5	6.9	1.4	29	14.8	1.7	35.4	19.3
OAC 13-05C	58.1	1	5.3	1.1	25	17.7	1.8	35.8	18.8

110.7 Days After Planting

UNIFORM TEST 00, 2015

YIELD (bu/a)

Strain	Mean 9 Tests	Crook-ston MN	Moor-head MN	Shelly MN	Cassel-ton ND	North-wood ND	Elora ONT	Ottawa ONT	La Pocatiere QUE	St Mathieu de Beloeil QUE
MN0071 (00)	45.4	38.8	32.4	43.4	41.2	65.8	42.9	31.0	49.3	64.1
MN0095 (0)	50.6	41.9	40.6	48.4	56.9	76.0	46.3	38.3	41.0	65.9
ND Henson	53.8	45.1	44.2	47.1	50.0	68.2	58.9	35.7	60.1	74.7
M06-338016	53.5	36.6	43.9	44.5	55.3	74.0	54.6	42.1	57.3	73.6
M07-260009	53.8	47.9	39.2	48.1	54.6	71.3	52.8	36.5	62.7	71.2
M08-271313	51.4	38.5	36.9	47.8	50.9	67.0	50.2	37.9	62.4	71.3
M09-240029	54.5	46.9	51.9	50.0	57.4	72.5	43.5	40.9	59.0	68.7
M09-242072	50.9	50.9	38.9	45.9	52.4	71.3	46.1	40.3	45.9	66.6
M09-248030	47.1	38.2	40.9	38.4	42.2	73.3	44.5	34.2	48.4	64.0
M09-340080	54.1	38.5	46.3	44.1	53.1	69.7	56.7	39.5	67.1	71.9
M09-341061	51.9	41.0	43.0	40.7	58.8	69.1	57.7	39.4	41.8	75.4
M09-519014	53.9	39.6	49.6	46.5	51.3	76.5	56.8	40.2	53.6	71.4
M09-525037	53.7	32.0	45.6	46.0	48.8	67.8	57.4	37.1	69.4	78.9
ND11-16587	53.0	44.8	45.7	48.0	45.8	71.3	59.8	36.9	50.6	73.9
ND11-19225	47.5	44.6	38.9	47.3			49.8	36.1	46.7	69.2
ND11-19539	48.0	42.6	39.3	49.2	41.5	74.3	33.9	37.8	49.5	63.6
ND11-19725	52.0	38.1	50.9	43.8	51.1	72.1	50.1	34.8	57.0	69.9
ND12-13257	50.5	44.6	40.8	53.2	47.3	66.7	49.8	39.6	47.9	65.0
ND12-13260	52.7	52.1	51.2	47.5	44.3	76.4	48.8	44.7	42.3	67.0
ND12-15623	52.0	45.7	47.1	43.9	53.7	69.8	46.8	36.7	53.9	70.4
ND12-15628	50.5	40.5	35.6	42.6	51.9	71.1	48.6	33.2	60.0	70.9
ND12-15647	55.0	54.2	49.9	44.4	60.3	74.7	48.2	37.9	60.2	65.1
ND12-17224	53.2	42.9	46.7	47.3	57.2	70.1	49.0	37.1	64.4	63.7
ND12-19525	48.7	49.7	38.5	46.1	39.4	65.4	49.6	36.6	49.6	63.2
OAC 13-05C	56.7	47.8	52.9	48.1	55.8	73.4	51.9	40.7	62.6	77.4
Location Mean		42.9	43.9	46.5	51.6	71.3	49.8	37.8	53.9	69.9
C.V. (%)		13.1	14.4	12.4	11.4	5.1	8.8	6.9	11.3	5.7
L.S.D. (5%)		9.2	10.4	9.0	9.2	5.9	7.2	5.2	10.1	5.4
Row Sp. (in.)		12	10	10	30	30	14	15.8	14.2	7
Rows/Plot		8	8	8	4	4	4	4	4	5
Reps		3	3	3	3	3	3	3	3	3

UNIFORM TEST 00, 2015

YIELD RANK

Strain	Yield Rank	Crook-ston MN	Moor-head MN	Shelly MN	Cassel-ton ND	North-wood ND	Elora ONT	Ottawa ONT	La Pocatiere QUE	St Mathieu de Beloeil QUE
MN0071 (00)	25	19	25	22	24	24	24	25	18	21
MN0095 (0)	18	15	17	4	5	3	20	10	25	18
ND Henson	6	9	12	12	16	20	2	21	8	4
M06-338016	9	24	13	17	7	7	7	2	11	6
M07-260009	6	5	19	5	8	14	8	19	4	10
M08-271313	16	20	23	8	15	22	10	11	6	9
M09-240029	3	7	2	2	3	10	23	3	10	15
M09-242072	17	3	20	16	11	12	21	5	22	17
M09-248030	24	22	15	25	22	9	22	23	19	22
M09-340080	4	20	9	19	10	18	6	8	2	7
M09-341061	15	16	14	24	2	19	3	9	24	3
M09-519014	5	18	6	13	13	1	5	6	14	8
M09-525037	8	25	11	15	17	21	4	14	1	1
ND11-16587	11	10	10	7	19	12	1	16	15	5
ND11-19225	23	11	20	10			12	20	21	14
ND11-19539	22	14	18	3	23	6	25	13	17	24
ND11-19725	13	23	4	21	14	11	11	22	12	13
ND12-13257	19	11	16	1	18	23	12	7	20	20
ND12-13260	12	2	3	9	21	2	16	1	23	16
ND12-15623	13	8	7	20	9	17	19	17	13	12
ND12-15628	19	17	24	23	12	15	17	24	9	11
ND12-15647	2	1	5	18	1	5	18	12	7	19
ND12-17224	10	13	8	10	4	16	15	15	3	23
ND12-19525	21	4	22	14	25	25	14	18	16	25
OAC 13-05C	1	6	1	5	6	8	9	4	5	2

UNIFORM TEST 00, 2015

MATURITY (date)

Strain	Mean 9 Tests	Crook-ston MN	Moor-head MN	Shelly MN	Cassel-ton ND	North-wood ND	Elora ONT	Ottawa ONT	La Pocatiere QUE	St Mathieu de Beloeil QUE
MN0071 (00)	9/11	8/28	9/14	9/8	8/29	9/4	9/20	9/5	10/8	9/15
MN0095 (0)	5	4	7	7	11	11	5	3	1	3
ND Henson	5	5	6	7	13	7	5	3	-2	2
M06-338016	9		10	10	14	9	6	10	7	8
M07-260009	7	9	9	11	14	12	5	6	2	4
M08-271313	6	6	0	6	13	9	6	3	0	7
M09-240029	7	8	12	11	15	15	5	5	-4	5
M09-242072	7	7	13	8	15	13	5	4	4	3
M09-248030	11	15	16	13	18	14	6	8	9	9
M09-340080	11	17	14	14	18	17	8	8	3	8
M09-341061	9	11	15	10	18	14	10	5	2	4
M09-519014	10	12	18	13	18	16	6	5	6	7
M09-525037	10	9	9	9	18	15	10	6	2	7
ND11-16587	7	10	8	8	17	9	5	3	0	5
ND11-19225	3	7	8	6			5	3	-2	3
ND11-19539	4	7	9	7	13	10	0	3	-4	2
ND11-19725	7	7	6	7	18	14	5	3	-4	4
ND12-13257	7	7	6	8	18	12	5	4	-2	3
ND12-13260	5	6	6	9	8	12	5	3	1	3
ND12-15623	1	4	4	6	4	6	-1	0	-6	0
ND12-15628	2	4	4	6	8	8	0	2	-8	0
ND12-15647	5	9	8	7	10	10	4	3	-2	3
ND12-17224	5	7	7	6	12	9	5	3	-4	2
ND12-19525	1	1	4	4	11	6	-1	1	-8	-1
OAC 13-05C	5	8	10	9	11	10	6	4	-4	3
Date Planted	5/21	5/15	6/5	5/7	5/5	5/23	5/29	5/20	5/6	6/19
Days to Mature	112.8	105	101	124	116	104	114	108	155	88

UNIFORM TEST 00, 2015

LODGING (score)

Strain	Mean 9 Tests	Crook-ston MN	Moor-head MN	Shelly MN	Cassel-ton ND	North-wood ND	Elora ONT	Ottawa ONT	La Pocatiere QUE	St Mathieu de Beloeil QUE
MN0071 (00)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
MN0095 (0)	1.0	1.3	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
ND Henson	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
M06-338016	1.2	1.0	1.3	1.3	1.0	1.0	1.0	1.0	1.0	2.0
M07-260009	1.1	1.3	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.3
M08-271313	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
M09-240029	1.2	1.0	2.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0
M09-242072	1.0	1.3	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
M09-248030	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
M09-340080	1.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0
M09-341061	1.2	1.0	1.7	1.7	1.0	1.0	1.0	1.0	1.0	1.0
M09-519014	1.0	1.3	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
M09-525037	1.1	1.0	1.3	1.3	1.0	1.0	1.0	1.0	1.0	1.3
ND11-16587	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
ND11-19225	1.0	1.3	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
ND11-19539	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
ND11-19725	1.3	1.0	2.3	2.3	1.0	1.0	1.0	1.0	1.0	1.0
ND12-13257	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
ND12-13260	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
ND12-15623	1.0	1.3	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
ND12-15628	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
ND12-15647	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
ND12-17224	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
ND12-19525	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
OAC 13-05C	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

UNIFORM TEST 00, 2015

PLANT HEIGHT (inches)

Strain	Mean 8 Tests	Crook-ston MN	Moor-head MN	Shelly MN	Cassel-ton ND	North-wood ND	Elora ONT	Ottawa ONT	La Pocatiere QUE	St Mathieu de Beloeil QUE
MN0071 (00)	25	25	25	25	22		26	20	24	30
MN0095 (0)	25	33	27	27	22		27	20	16	27
ND Henson	23	28	24	24	21		27	20	18	25
M06-338016	28	32	26	26	27		30	24	24	32
M07-260009	29	33	29	29	27		31	23	24	33
M08-271313	23	26	21	21	24		25	20	21	27
M09-240029	26	30	26	26	23		26	24	24	30
M09-242072	25	30	26	26	25		25	21	20	27
M09-248030	25	28	24	24	22		28	19	24	27
M09-340080	29	31	31	31	23		34	23	26	32
M09-341061	27	32	24	24	29		31	24	22	33
M09-519014	30	34	29	29	28		33	24	26	34
M09-525037	31	35	30	30	25		36	26	28	34
ND11-16587	26	30	26	26	25		28	22	20	30
ND11-19225	26	31	26	26			27	23	21	30
ND11-19539	22	25	25	25	21		20	18	17	23
ND11-19725	28	31	30	30	26		31	22	25	32
ND12-13257	24	29	26	26	23		25	21	19	27
ND12-13260	25	29	26	26	22		27	21	18	28
ND12-15623	27	33	26	26	25		31	20	23	31
ND12-15628	27	32	27	27	24		31	20	22	31
ND12-15647	26	32	26	26	28		26	21	21	29
ND12-17224	27	32	26	26	26		29	21	24	30
ND12-19525	24	28	22	22	20		25	22	21	29
OAC 13-05C	25	30	25	25	22		25	23	22	28

UNIFORM TEST 00, 2015

SEED SIZE (g/100)

Strain	Mean 8 Tests	Crook-ston MN	Moor-head MN	Shelly MN	Cassel-ton ND	North-wood ND	Elora ONT	Ottawa ONT	La Pocatiere QUE	St Mathieu de Beloeil QUE
MN0071 (00)	14.7	11.9	13.0	12.9	14.4		15.6	19.7	15.1	15.1
MN0095 (0)	12.0	8.6	10.6	11.0	13.8		12.1	16.0	12.3	11.6
ND Henson	15.0	10.5	13.5	13.0	14.6		17.7	20.6	14.7	15.2
M06-338016	14.1	10.1	12.8	12.9	14.2		15.3	18.9	14.3	14.2
M07-260009	14.3	11.7	13.1	12.5	14.0		15.4	18.9	14.5	14.5
M08-271313	15.6	10.6	13.4	13.4	15.9		17.1	21.2	16.0	17.1
M09-240029	16.0	12.3	14.2	14.9	15.3		16.5	20.7	17.1	16.9
M09-242072	14.4	11.1	13.0	12.8	13.1		15.4	19.4	15.6	14.4
M09-248030	16.4	11.6	14.1	14.5	14.4		17.2	22.5	18.6	18.2
M09-340080	14.8	12.5	13.7	13.5	14.0		15.8	18.8	15.1	14.6
M09-341061	15.5	10.5	13.0	13.2	15.4		16.5	21.4	17.0	16.7
M09-519014	13.6	9.5	13.0	11.7	14.2		15.0	17.6	14.0	13.7
M09-525037	16.9	11.6	16.1	14.1	16.3		19.2	21.8	17.7	18.6
ND11-16587	14.6	10.4	14.2	13.1	15.5		15.2	19.3	14.9	14.4
ND11-19225	14.6	9.8	13.9	13.2			16.1	19.2	15.7	14.5
ND11-19539	14.6	10.9	13.7	13.3	15.2		14.4	19.8	15.4	14.1
ND11-19725	13.8	10.8	11.8	12.5	13.5		14.0	18.8	14.5	14.2
ND12-13257	14.2	10.2	12.9	11.9	14.2		15.6	19.4	15.5	13.5
ND12-13260	14.2	11.1	13.3	13.2	13.2		15.1	19.3	14.7	13.3
ND12-15623	12.5	10.1	11.4	11.6	13.0		13.8	16.1	11.9	11.9
ND12-15628	12.2	10.0	11.1	11.3	13.3		12.2	16.0	11.3	12.2
ND12-15647	12.5	9.5	11.0	11.1	14.0		13.0	17.3	12.4	11.6
ND12-17224	12.2	10.2	11.1	11.0	12.7		12.2	16.9	12.4	11.3
ND12-19525	16.2	11.2	13.8	14.1	16.1		18.7	21.8	17.6	16.6
OAC 13-05C	16.7	12.2	15.0	15.3	17.5		16.8	21.9	17.3	17.9

UNIFORM TEST 00, 2015

SEED QUALITY (score)

Strain	Mean 6 Tests	Crook-ston MN	Moor-head MN	Shelly MN	Cassel-ton ND	North-wood ND	Elora ONT	Ottawa ONT	La Pocatiere QUE	St Mathieu de Beloeil QUE
MN0071 (00)	1.7	2.0	2.0	2.0	1.0		1.5	1.9		
MN0095 (0)	1.5	2.0	2.0	1.0	1.0		1.5	1.3		
ND Henson	1.5	1.0	2.0	1.0	1.0		1.5	2.4		
M06-338016	1.7	2.0	2.0	2.0	1.0		1.5	1.9		
M07-260009	1.5	2.0	2.0	1.0	1.0		1.5	1.7		
M08-271313	1.8	2.0	2.0	2.0	1.0		1.5	2.0		
M09-240029	1.6	2.0	2.0	1.0	1.0		1.5	2.1		
M09-242072	1.5	2.0	2.0	1.0	1.0		1.5	1.4		
M09-248030	1.7	2.0	2.0	2.0	1.0		1.5	1.4		
M09-340080	1.6	2.0	2.0	1.0	1.0		2.0	1.4		
M09-341061	1.6	2.0	2.0	1.0	1.0		1.5	1.9		
M09-519014	1.7	2.0	2.0	2.0	1.0		1.5	1.4		
M09-525037	1.6	2.0	2.0	1.0	1.0		1.5	2.0		
ND11-16587	1.6	2.0	2.0	1.0	1.0		1.5	2.1		
ND11-19225	2.0	2.0	2.0	2.0			1.5	2.5		
ND11-19539	1.7	2.0	2.0	1.0	1.0		1.5	2.5		
ND11-19725	1.6	2.0	2.0	2.0	1.0		1.5	1.3		
ND12-13257	1.8	2.0	2.0	2.0	1.0		1.5	2.3		
ND12-13260	1.8	2.0	2.0	2.0	1.0		1.5	2.0		
ND12-15623	1.7	2.0	2.0	2.0	1.0		1.5	1.7		
ND12-15628	1.8	2.0	2.0	2.0	1.0		1.5	2.0		
ND12-15647	1.8	2.0	2.0	2.0	1.0		1.5	2.3		
ND12-17224	1.7	2.0	2.0	2.0	1.0		1.5	1.9		
ND12-19525	1.7	2.0	2.0	1.0	2.0		1.5	1.6		
OAC 13-05C	1.6	2.0	2.0	1.0	1.0		1.5	2.1		

UNIFORM TEST 00, 2015

PROTEIN (%)

Strain	Mean 5 Tests	Crookston MN	Moorehead MN	Elora ONT	Ottawa ONT	St Mathieu de Beloeil QUE
MN0071 (00)	36.8	34.3	32.0	41.6	35.7	40.3
MN0095 (0)	37.6	38.6	32.1	41.4	34.9	41.1
ND Henson	38.3	38.2	33.3	42.0	35.8	42.3
M06-338016	36.6	36.3	32.4	40.2	34.8	39.5
M07-260009	37.4	37.1	32.0	41.6	35.0	41.4
M08-271313	35.7	35.7	30.3	39.6	35.5	37.6
M09-240029	36.7	35.4	32.0	41.0	35.1	40.0
M09-242072	39.0	37.9	34.8	42.7	36.4	43.1
M09-248030	37.3	35.1	32.9	40.9	36.7	40.7
M09-340080	39.9	37.5	37.1	44.0	38.0	42.7
M09-341061	37.4	36.1	33.4	41.3	35.9	40.2
M09-519014	35.8	33.1	31.9	39.9	34.5	39.7
M09-525037	37.4	35.1	33.8	41.7	36.4	40.1
ND11-16587	36.2	34.1	32.5	40.1	34.5	39.9
ND11-19225	36.4	36.0	31.1	40.0	35.1	40.0
ND11-19539	37.6	37.0	32.3	42.5	35.0	41.3
ND11-19725	36.8	35.2	32.1	40.4	36.5	39.9
ND12-13257	36.8	33.6	33.2	41.1	35.3	40.8
ND12-13260	36.2	33.9	32.0	40.3	34.6	40.1
ND12-15623	37.4	34.7	34.2	41.8	34.1	42.4
ND12-15628	37.2	35.4	32.8	41.3	34.9	41.4
ND12-15647	37.0	34.4	32.6	41.0	36.0	40.8
ND12-17224	36.7	32.7	33.6	40.6	35.6	41.2
ND12-19525	37.6	35.4	33.0	42.1	35.5	41.8
OAC 13-05C	37.1	34.0	32.7	41.5	35.9	41.3

UNIFORM TEST 00, 2015

OIL (%)

Strain	Mean 5 Tests	Crookston MN	Moorehead MN	Elora ONT	Ottawa ONT	St Mathieu de Beloeil QUE
MN0071 (00)	20.1	19.3	19.3	20.9	19.5	21.3
MN0095 (0)	19.0	15.0	18.8	20.9	19.5	20.8
ND Henson	19.4	16.1	19.6	21.3	19.2	20.8
M06-338016	19.8	17.8	19.7	20.6	19.5	21.4
M07-260009	19.3	18.3	17.8	20.5	19.3	20.8
M08-271313	20.8	19.0	20.9	22.3	19.3	22.7
M09-240029	20.1	18.5	20.0	21.4	19.5	21.3
M09-242072	18.7	17.8	17.3	19.9	19.1	19.5
M09-248030	19.3	17.8	18.3	20.8	18.9	20.8
M09-340080	19.0	18.0	17.6	20.2	18.8	20.5
M09-341061	18.4	15.9	17.7	20.0	18.1	20.4
M09-519014	20.1	18.3	19.3	21.4	19.8	21.5
M09-525037	20.2	18.8	19.2	21.3	19.6	22.1
ND11-16587	20.4	18.2	19.4	21.6	20.3	22.3
ND11-19225	20.1	19.1	19.7	21.2	19.3	21.4
ND11-19539	19.3	17.6	18.4	20.4	19.5	20.5
ND11-19725	20.1	18.3	19.8	21.4	18.9	22.1
ND12-13257	20.2	19.3	18.9	21.3	20.2	21.4
ND12-13260	20.6	21.3	18.6	21.3	20.2	21.8
ND12-15623	19.1	17.4	18.5	20.0	19.5	19.9
ND12-15628	19.2	17.7	19.0	20.1	19.4	20.0
ND12-15647	19.5	18.9	18.2	20.8	18.8	21.0
ND12-17224	19.5	19.4	18.6	20.4	18.8	20.1
ND12-19525	18.8	17.3	18.0	19.9	19.1	19.9
OAC 13-05C	19.4	18.0	18.5	20.7	19.1	20.8

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UNIFORM TEST 0, 2015

Ent.	Strain	Parentage	Seed Source	Previous Testing	Gen. Comp.	Unique Traits
1	Sheyenne (0)	Pioneer 9071 x A96-492041	Helms	8	F4	Rps1-c
2.	MN0095 (E)	M92-270029 x M93-313185	Orf	4	F5	Rps1
3.	MN0606CN (SCN)	MN0901 x MN0902CN	Orf	6	F5	SCN
4.	MN1410 (I)	Unknown	Orf	7	F5	
5.	M07-260028	NE1900 x MN0107	Orf	2	F5	
6.	M07-278126	M00-110002 x Sheyenne	Orf	1	F5	
7.	M08-154093	SD02-906 x U03-100612	Orf	1	F6	
8.	M08-218002	MN0302 x M01-228058	Orf	PT0	F5	Diversity
9.	M08-218089	MN0302 x M01-228058	Orf	PT0	F5	Diversity
10.	M08-271196	M03-276016 x IA2064	Orf	UT00	F5	
11.	M08-359053	M02-391112 x MN1701CN	Orf	UT00	F5	SCN
12.	M08-434024	M02-333013 x M02-328023	Orf	PT0	F5	Yield
13.	ND09-5798	ND03-7267 x Sheyenne	Helms	2	F4	2% Hard Seed
14.	ND10-2763	Sheyenne x ND03-5441	Helms	PT0	F4	SCN, Yield
15.	ND10-3067	Sheyenne x {LaMoure(2)Rag1]	Helms	2	F4	
16.	ND10-3464	ND03-7566 x [ND03-5441 x LaMoure]	Helms	PT0	F4	SCN, Yield
17.	ND10-4518	Sheyenne x Ashtabula	Helms	1	F4	8% Hard Seed
18.	OAC 12-21C	Colby x OAC 05-30	Rajcan	PT0	F5	
19.	OAC 12-31C	Colby x OAC 05-02	Rajcan	PT0	F5	

UNIFORM TEST 0, 2015

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	IDC Score Morris	IDC Score Rose-mount	Shattering Score Manhattan	Green Stem Score St Mathieu de Beloeil	Green Stem Score Ottawa
Sheyenne (0)	PGTSYYI	2.3	2.3	1.0	3.3	4.0
MN0095 (E)	PGTSYDibI	1.3	1.3	1.0	1.3	4.7
MN0606CN (SCN)	WTBSYYI	3.0	3.0	1.0	2.3	4.0
MN1410 (I)	WGTSYBfI	2.8	2.8	2.0	4.7	4.3
M07-260028	P+WGTDYBfI	2.3	2.3	1.0	1.3	5.0
M07-278126	P+WGTIYYI	2.5	2.5	2.0	1.3	4.0
M08-154093	PTBDYBI	2.5	2.5	4.0	2.3	4.7
M08-218002	PT+GB+TDYBrI	2.3	2.3	1.0	3.3	4.0
M08-218089	PTBSYBI	3.0	3.0	3.0	3.0	4.3
M08-271196	P+WT+GB+TIYYI	1.8	1.8	5.0	1.7	5.0
M08-359053	P+WT+GBIYYI	3.0	3.0	5.0	1.0	4.7
M08-434024	PT+GB+TSYBI	2.3	2.3	1.0	2.0	4.0
ND09-5798	PTBSYYI	2.5	2.5	1.0	3.7	4.3
ND10-2763	PGTDYYI	3.3	3.3	1.0	2.0	5.0
ND10-3067	PGTDYYI	1.5	1.5	1.0	2.3	4.0
ND10-3464	WGTDYDbfI	1.8	1.8	1.0	2.3	4.7
ND10-4518	PGTDYYI	2.5	2.5	1.0	4.0	4.0
OAC 12-21C	PTBIYGI	3.3	3.3	2.0	2.0	4.0
OAC 12-31C	PTBDYGI	4.3	4.3	3.0	2.3	4.7

UNIFORM TEST 0, 2015

REGIONAL SUMMARY

No. of Tests Strain	Yield 6 bu/a	Rank 6 No.	Maturity 6 Date	Lodging 5 Score	Plant Height 6 In.	Seed Size 6 g/100	Seed Quality 5 Score	Composition Protein 5 %	 Oil 5 %
Sheyenne (0)	52.6	8	9/18	1.3	29	16.1	1.4	36.6	20.0
MN0095 (E)	44.1	19	-6.8	1.4	25	13.4	1.1	37.5	20.2
MN0606CN (SCN)	52.6	8	1.2	1.7	27	15.3	1.2	37.2	20.2
MN1410 (I)	57.0	1	7.2	1.5	32	17.3	1.2	37.5	20.0
M07-260028	50.9	13	-4.7	1.2	26	16.8	1.3	38.6	19.1
M07-278126	47.3	17	-1.7	1.2	27	15.3	1.4	36.7	19.8
M08-154093	52.8	6	-0.5	1.1	25	18.2	1.2	37.4	21.0
M08-218002	53.2	4	3.8	1.4	32	15.3	1.7	37.9	20.2
M08-218089	50.9	13	-1.2	1.2	28	17.3	1.4	39.3	20.0
M08-271196	47.1	18	-3.7	1.2	25	17.3	1.5	36.5	20.5
M08-359053	51.2	12	-2.0	1.7	29	16.1	1.8	37.9	19.8
M08-434024	53.1	5	-1.0	1.3	30	17.2	1.2	37.9	19.7
ND09-5798	51.4	10	-1.2	1.1	25	16.2	1.3	36.9	20.1
ND10-2763	49.3	16	-3.7	1.2	25	16.0	1.5	36.7	19.8
ND10-3067	54.2	3	-1.2	1.2	29	15.6	1.3	36.1	20.2
ND10-3464	51.4	10	-2.7	1.3	26	14.9	1.3	38.6	19.8
ND10-4518	52.8	6	-0.2	1.2	30	15.2	1.3	35.9	20.3
OAC 12-21C	55.2	2	3.8	1.2	27	20.0	1.5	37.6	20.1
OAC 12-31C	49.4	15	-0.8	1.5	29	17.3	1.3	39.2	20.4
Mean	51.4			1.3	27.5	17.3	1.6		
C.V. (%)	27.0			47.6	19.1	15.9	29.5		
L.S.D. (5%)	9.1			0.4	3.2	2.2	0.5		

117.7 Days After Planting

2014-2015 2-YEAR MEAN

No. of Tests Strain	Yield 12 bu/a	Rank 12 No.	Maturity 13 Date	Lodging 11 Score	Plant Height 13 In.	Seed Size 13 g/100	Seed Quality 12 Score	Composition Protein 12 %	 Oil 12 %
Sheyenne (0)	54.1	4	9/20	1.2	29	16.6	1.7	35.4	19.2
MN0095 (0)	45.4	11	-7.0	1.3	25	14.0	1.3	36.3	19.5
MN0606CN (SCN)	54.0	6	1.3	1.7	29	15.9	1.4	36.3	19.1
MN1410 (I)	59.1	1	7.2	1.4	32	17.6	1.2	36.4	19.1
M07-260028	50.5	8	-5.2	1.2	26	17.1	1.5	37.6	18.1
M07-278126	49.5	10	-2.1	1.2	27	15.7	1.6	35.5	19.1
M08-154093	53.9	7	-0.6	1.1	26	18.9	1.3	36.1	20.1
M08-271196	50.4	9	2.1	1.2	25	17.3	1.8	34.9	19.7
M08-359053	54.0	6	4.0	1.7	28	16.0	2.3	36.2	19.0
ND10-3067	56.1	2	-0.5	1.2	29	16.4	1.7	35.3	19.2
ND10-4518	55.1	3	0.3	1.3	30	15.6	1.9	34.8	19.4

118.6 Days After Planting

UNIFORM TEST 0, 2015

YIELD (bu/a)

Strain	Mean 6 Tests	Morris MN	Rose-mount MN	Casselton ND	Ottawa ONT	Wood-stock ONT	St Mathieu de Beloeil QUE
Sheyenne (0)	52.6	40.4	56.0	54.9	52.3	38.2	73.6
MN0095 (E)	44.1	31.8	46.8	52.6	43.7	26.4	63.5
MN0606CN (SCN)	52.6	45.8	53.0	54.7	48.8	38.3	75.1
MN1410 (I)	57.0	44.2	60.7	63.4	55.4	45.4	73.0
M07-260028	50.9	32.3	53.1	51.9	53.5	43.2	71.1
M07-278126	47.3	35.1	58.4	46.6	48.2	37.7	58.0
M08-154093	52.8	40.3	57.2	54.5	53.4	34.9	76.5
M08-218002	53.2	38.4	52.2	54.6	49.0	43.9	80.8
M08-218089	50.9	37.3	51.8	54.0	49.3	37.6	75.5
M08-271196	47.1	33.4	48.5	48.6	48.3	34.5	69.5
M08-359053	51.2	39.3	51.7	64.1	44.1	37.4	70.7
M08-434024	53.1	37.6	54.9	58.6	48.5	42.7	76.4
ND09-5798	51.4	43.1	59.0	48.2	51.5	30.8	75.9
ND10-2763	49.3	41.6	60.1	50.4	45.5	32.2	65.8
ND10-3067	54.2	41.8	55.9	57.6	54.7	37.3	78.1
ND10-3464	51.4	45.4	48.6	51.1	47.7	38.4	77.1
ND10-4518	52.8	38.1	47.9	62.2	51.9	35.9	81.0
OAC 12-21C	55.2	42.2	58.2	43.5	54.2	45.4	87.4
OAC 12-31C	49.4	30.8	48.9	49.3	46.7	39.9	81.0
Location Mean		39.3	53.1	54.0	49.0	37.7	75.5
C.V. (%)		12.4	10.9	8.1	5.4	15.0	6.9
L.S.D. (5%)		8.1	9.6	6.9	5.3	9.4	8.5
Row Sp. (In.)		30	30	30	16	14	7
Rows/Plot		4	4	4	4	4	5
Reps		3	3	3	3	3	3

UNIFORM TEST 0, 2015

YIELD RANK

Strain	Yield Rank	Morris MN	Rose-mount MN	Casselton ND	Ottawa ONT	Wood-stock ONT	St Mathieu de Beloeil QUE
Sheyenne (0)	8	8	7	6	6	9	12
MN0095 (E)	19	18	19	11	19	19	18
MN0606CN (SCN)	8	1	11	7	11	8	11
MN1410 (I)	1	3	1	2	1	1	13
M07-260028	13	17	10	12	4	4	14
M07-278126	17	15	4	18	14	10	19
M08-154093	6	9	6	9	5	15	7
M08-218002	4	11	12	8	10	3	4
M08-218089	13	14	13	10	9	11	10
M08-271196	18	16	17	16	13	16	16
M08-359053	12	10	14	1	18	12	15
M08-434024	5	13	9	4	12	5	8
ND09-5798	10	4	3	17	8	18	9
ND10-2763	16	7	2	14	17	17	17
ND10-3067	3	6	8	5	2	13	5
ND10-3464	10	2	16	13	15	7	6
ND10-4518	6	12	18	3	7	14	3
OAC 12-21C	2	5	5	19	3	1	1
OAC 12-31C	15	19	15	15	16	6	2

MATURITY (date)

Strain	Mean 6 Tests	Morris MN	Rose-mount MN	Casselton ND	Ottawa ONT	Wood-stock ONT	St Mathieu de Beloeil QUE
Sheyenne (0)	9/18	9/14	9/16	9/19	9/21	9/17	9/24
MN0095 (E)	-7	-7	-5	-6	-10	-4	-9
MN0606CN (SCN)	1	2	1	4	1	5	-5
MN1410 (I)	7	4	5	15	1	4	8
M07-260028	-5	-6	-4	-3	-8	-1	-6
M07-278126	-2	-4	-2	-1	-2	1	-2
M08-154093	-0	-2	-1	1	-5	1	3
M08-218002	4	1	3	4	1	3	7
M08-218089	-1	-2	-2	1	-3	0	0
M08-271196	-4	-5	-4	-6	-8	-0	1
M08-359053	-2	-5	-4	-2	-4	1	2
M08-434024	-1	-2	-2	-1	-3	0	1
ND09-5798	-1	1	1	0	-4	-1	-0
ND10-2763	-4	-4	-3	-2	-8	-1	-4
ND10-3067	-1	-4	1	0	-1	0	-1
ND10-3464	-3	-5	-2	-2	-5	0	-2
ND10-4518	-0	0	1	0	-2	2	-1
OAC 12-21C	4	4	3	10	-2	4	4
OAC 12-31C	-1	-1	-2	0	-5	-1	4
Date Planted	5/23	5/22	5/22	5/5	5/22	5/22	6/19
Days to Mature	117.7	115	117	137	122	118	97

UNIFORM TEST 0, 2015

LODGING (score)

Strain	Mean 5 Tests	Morris MN	Rose-mount MN	Casselton ND	Ottawa ONT	Wood-stock ONT	St Mathieu de Beloeil QUE
Sheyenne (0)	1.3		2.3	1.0	1.0	1.0	1.0
MN0095 (E)	1.4		3.0	1.0	1.0	1.0	1.0
MN0606CN (SCN)	1.7		3.3	1.0	1.0	1.0	2.0
MN1410 (I)	1.5		2.3	1.0	1.0	1.2	2.0
M07-260028	1.2		2.0	1.0	1.0	1.0	1.0
M07-278126	1.2		2.0	1.0	1.0	1.0	1.0
M08-154093	1.1		1.7	1.0	1.0	1.0	1.0
M08-218002	1.4		2.7	1.0	1.0	1.2	1.3
M08-218089	1.2		2.0	1.0	1.0	1.0	1.0
M08-271196	1.2		2.0	1.0	1.0	1.0	1.0
M08-359053	1.7		4.0	1.0	1.0	1.0	1.3
M08-434024	1.3		2.0	1.0	1.0	1.0	1.7
ND09-5798	1.1		1.3	1.0	1.0	1.0	1.0
ND10-2763	1.2		2.0	1.0	1.0	1.0	1.0
ND10-3067	1.2		2.0	1.0	1.0	1.0	1.0
ND10-3464	1.3		2.3	1.0	1.0	1.0	1.0
ND10-4518	1.2		2.0	1.0	1.0	1.0	1.0
OAC 12-21C	1.2		2.0	1.0	1.0	1.0	1.0
OAC 12-31C	1.5		3.0	1.0	1.0	1.0	1.7

PLANT HEIGHT (inches)

Strain	Mean 6 Tests	Morris MN	Rose-mount MN	Casselton ND	Ottawa ONT	Wood-stock ONT	St Mathieu de Beloeil QUE
Sheyenne (0)	29	25	38	26	25	27	32
MN0095 (E)	25	20	32	23	21	24	28
MN0606CN (SCN)	27	24	34	24	25	25	31
MN1410 (I)	32	27	40	30	27	32	35
M07-260028	26	21	33	25	23	25	27
M07-278126	27	21	35	23	25	25	30
M08-154093	25	20	34	21	21	23	28
M08-218002	32	26	40	28	27	35	34
M08-218089	28	25	36	25	26	26	32
M08-271196	25	21	31	21	23	24	27
M08-359053	29	22	34	27	29	29	31
M08-434024	30	25	34	26	28	32	33
ND09-5798	25	23	32	23	23	22	29
ND10-2763	25	18	33	25	23	23	25
ND10-3067	29	25	38	28	27	25	32
ND10-3464	26	24	33	22	22	28	28
ND10-4518	30	24	39	27	27	27	34
OAC 12-21C	27	23	34	24	27	25	30
OAC 12-31C	29	26	36	27	28	27	32

UNIFORM TEST 0, 2015

SEED SIZE (g/100)

Strain	Mean 6 Tests	Morris MN	Rose-mount MN	Casselton ND	Ottawa ONT	Wood-stock ONT	St Mathieu de Beloeil QUE
Sheyenne (0)	16.1	16.8	14.1	15.6	19.7	15.1	15.1
MN0095 (E)	13.4	12.4	12.7	13.8	15.9	13.1	12.4
MN0606CN (SCN)	15.3	14.2	13.8	14.3	19.8	14.2	15.3
MN1410 (I)	17.3	16.0	16.7	15.0	21.2	16.5	18.6
M07-260028	16.8	16.5	15.9	15.1	20.0	16.7	16.4
M07-278126	15.3	14.6	13.6	14.8	19.2	15.2	14.6
M08-154093	18.2	16.3	17.1	17.2	22.6	17.2	18.7
M08-218002	15.3	14.7	14.4	13.9	18.3	14.2	16.4
M08-218089	17.3	17.0	15.6	15.6	21.5	16.7	17.1
M08-271196	17.3	17.5	15.0	15.4	21.2	16.9	17.9
M08-359053	16.1	15.0	14.2	15.0	20.3	15.5	16.3
M08-434024	17.2	15.9	16.0	15.2	21.4	17.2	17.2
ND09-5798	16.2	15.6	15.9	13.9	20.1	15.6	16.0
ND10-2763	16.0	15.4	15.5	15.3	20.3	15.1	14.2
ND10-3067	15.6	16.4	13.8	14.6	19.1	15.1	14.6
ND10-3464	14.9	14.6	14.1	13.3	19.2	14.2	13.9
ND10-4518	15.2	15.5	13.7	14.3	18.5	14.4	14.7
OAC 12-21C	20.0	18.7	18.0	17.7	23.7	19.9	21.9
OAC 12-31C	17.3	15.7	15.3	15.3	21.5	16.4	19.7

SEED QUALITY (score)

Strain	Mean 5 Tests	Morris MN	Rose-mount MN	Casselton ND	Ottawa ONT	Wood-stock ONT	St Mathieu de Beloeil QUE
Sheyenne (0)	1.4	1.0	1.0	1.0	2.0	2.0	
MN0095 (E)	1.1	1.0	1.0	1.0	1.0	1.5	
MN0606CN (SCN)	1.2	1.0	1.0	1.0	1.7	1.5	
MN1410 (I)	1.2	1.0	1.0	1.0	1.3	1.5	
M07-260028	1.3	2.0	1.0	1.0	1.0	1.5	
M07-278126	1.4	1.0	2.0	1.0	1.7	1.5	
M08-154093	1.2	1.0	1.0	1.0	1.7	1.5	
M08-218002	1.7	2.0	2.0	1.0	2.0	1.5	
M08-218089	1.4	2.0	1.0	1.0	1.7	1.5	
M08-271196	1.5	2.0	1.0	1.0	2.0	1.5	
M08-359053	1.8	1.0	2.0	2.0	2.0	2.0	
M08-434024	1.2	1.0	1.0	1.0	1.7	1.5	
ND09-5798	1.3	1.0	1.0	1.0	2.0	1.5	
ND10-2763	1.5	2.0	1.0	1.0	2.0	1.5	
ND10-3067	1.3	1.0	1.0	1.0	2.0	1.5	
ND10-3464	1.3	1.0	1.0	1.0	2.0	1.5	
ND10-4518	1.3	1.0	1.0	1.0	2.0	1.5	
OAC 12-21C	1.5	1.0	2.0	1.0	2.0	1.5	
OAC 12-31C	1.3	1.0	1.0	1.0	2.0	1.5	

UNIFORM TEST 0, 2015

PROTEIN (%)

Strain	Mean 5 Tests	Morris MN	Casselton ND	Ottawa ONT	Woodstock ONT	St Mathieu de Beloeil QUE
Sheyenne (0)	36.6	34.5	33.3	35.4	40.4	39.2
MN0095 (E)	37.5	35.7	33.9	35.3	41.7	40.8
MN0606CN (SCN)	37.2	35.4	33.8	36.1	41.3	39.6
MN1410 (I)	37.5	34.3	35.5	36.4	42.0	39.3
M07-260028	38.6	33.6	35.8	36.3	43.3	43.9
M07-278126	36.7	35.2	32.4	35.5	40.4	40.2
M08-154093	37.4	36.3	33.8	35.6	41.7	39.7
M08-218002	37.9	36.0	35.7	36.2	41.6	40.2
M08-218089	39.3	38.2	35.6	37.1	43.1	42.3
M08-271196	36.5	34.8	34.6	35.0	39.8	38.4
M08-359053	37.9	36.8	33.5	36.9	41.7	40.5
M08-434024	37.9	36.2	34.9	36.5	42.2	39.9
ND09-5798	36.9	34.9	33.4	35.5	40.7	39.8
ND10-2763	36.7	33.6	34.8	35.7	40.2	39.4
ND10-3067	36.1	35.3	32.4	33.8	39.7	39.2
ND10-3464	38.6	35.7	34.8	38.7	43.3	40.5
ND10-4518	35.9	34.3	31.7	34.4	39.6	39.4
OAC 12-21C	37.6	35.7	33.9	36.5	40.9	40.8
OAC 12-31C	39.2	37.4	36.0	37.4	43.4	41.8

OIL (%)

Strain	Mean 5 Tests	Morris MN	Casselton ND	Ottawa ONT	Woodstock ONT	St Mathieu de Beloeil QUE
Sheyenne (0)	20.0	18.8	19.9	18.9	20.9	21.5
MN0095 (E)	20.2	19.6	20.1	19.4	21.1	21.0
MN0606CN (SCN)	20.2	19.7	19.8	19.1	21.3	21.2
MN1410 (I)	20.0	17.9	18.8	19.7	21.3	22.1
M07-260028	19.1	19.2	18.8	18.6	19.5	19.2
M07-278126	19.8	18.8	20.3	18.8	20.7	20.4
M08-154093	21.0	20.4	20.8	19.7	21.8	22.5
M08-218002	20.2	19.3	19.0	19.7	21.5	21.7
M08-218089	20.0	19.2	19.9	19.1	21.0	20.9
M08-271196	20.5	19.5	19.3	19.3	22.1	22.2
M08-359053	19.8	18.5	20.0	18.9	20.9	20.6
M08-434024	19.7	18.8	19.1	19.0	20.7	21.1
ND09-5798	20.1	19.3	19.8	19.0	21.6	21.0
ND10-2763	19.8	18.9	19.2	18.9	20.9	21.2
ND10-3067	20.2	19.2	19.7	19.5	21.3	21.2
ND10-3464	19.8	19.0	19.7	18.7	20.3	21.5
ND10-4518	20.3	19.2	20.3	19.3	21.1	21.4
OAC 12-21C	20.1	19.6	19.1	19.2	21.5	21.2
OAC 12-31C	20.4	19.1	19.9	19.5	21.6	21.9

PRELIMINARY TEST 0, 2015

Ent.	Strain	Parentage	Seed Source	Gen. Comp.	Unique Traits
1	Sheyenne (0)	Pioneer 9071 x A96-492041	Helms	F4	Rps1-c
2.	MN0095 (E)	M92-270029 x M93-313185	Orf	F5	Rps1
3.	MN0606CN (SCN)	MN0901 x MN0902CN	Orf	F5	SCN
4.	MN1410 (I)	Unknown	Orf	F5	
5.	M08-144031	MN0307SP x Hendricks	Orf	F5	Large
6.	M09-240005	M03-163106 x OAC06-32	Orf	F5	Phyto
7.	M09-251028	PI578425 x M04-267028	Orf	F5	Wilt
8.	M09-251081	PI578425 x M04-267028	Orf	F5	Wilt
9.	M09-251100	PI578425 x M04-267028	Orf	F5	Wilt
10.	M09-252032	MTC00-113-61-7 x PI384469A	Orf	F5	Wilt
11.	M09-252048	MTC00-113-61-7 x PI384469A	Orf	F5	Wilt
12.	M09-252049	MTC00-113-61-7 x PI384469A	Orf	F5	Wilt
13.	M09-261065	M03-198033 x M02-403070	Orf	F5	Wilt
14.	M09-261067	M03-198033 x M02-403070	Orf	F5	Wilt
15.	M09-261084	M03-198033 x M02-403070	Orf	F5	Wilt
16.	M09-262111	M02-399012 x M03-201035	Orf	F5	Wilt
17.	M09-340060	M02-495076 x MN1013	Orf	F5	Diversity
18.	M09-340084	M02-495076 x MN1013	Orf	F5	Diversity
19.	M09-525015	MN0302 x MS05-143003	Orf	F5	IDC
20.	M09-525033	MN0302 x MS05-143003	Orf	F5	IDC
21.	M11-115357	MN1410 x MN1606SP	Orf	F5	SDS
22.	ND11-16223	Sheyenne(2) x ND03-7566	Helms	F4	
23.	ND11-16225	Sheyenne(2) x ND03-7566	Helms	F4	
24.	ND11-16241	Sheyenne(2) x ND03-7566	Helms	F4	
25.	ND11-16553	Sheyenne x Ashtabula	Helms	F4	
26.	ND11-16628	Ashtabula x Sheyenne	Helms	F4	
27.	ND11-19471	Sheyenne x ND04-12689	Helms	F4	
28.	ND11-19483	Sheyenne x ND04-12689	Helms	F4	
29.	ND11-20868	Ashtabula x ND03-6793	Helms	F4	
30.	ND12-15651	M00-30755 x ND05-17649	Helms	F4	
31.	ND12-15653	M00-30755 x ND05-17649	Helms	F4	
32.	ND12-15670	M00-30755 x ND05-17649	Helms	F4	
33.	ND12-17339	Sheyenne x ND05-17644	Helms	F4	
34.	ND12-17541	Ashtabula x ND05-17644	Helms	F4	
35.	ND12-19542	Cavalier x (Wallace x Sheyenne)	Helms	F4	
36.	ND12-2670	Ashtabula x (Wallace x Sheyenne)	Helms	F4	
37.	OAC 13-64C-ChCdn	OAC Champion x Jilin No. 85	Rajcan	F5	Canadian x Chinese Cross

PRELIMINARY TEST 0, 2015

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	IDC Score Morris	IDC Score Rose-mount	Shattering Score Manhattan	Green Stem Score St Mathieu de Beloeil
Sheyenne (0)	PGTSYYI	2.8	2.8	2.0	3.6
MN0095 (E)	PGTSYDibI	1.8	1.8	1.0	1.5
MN0606CN (SCN)	WTBSYYI	3.3	3.3	1.0	2.0
MN1410 (I)	WGTSYBfI	3.3	3.3	2.0	4.5
M08-144031	W+PT+GB+TDYYI	2.5	2.5	3.0	0.0
M09-240005	WGTSYYI	3.8	3.8	1.0	2.4
M09-251028	PGTSYLbfI	4.3	4.3	5.0	2.5
M09-251081	PGTSYBfI	3.3	3.3	2.0	3.0
M09-251100	PGTSYBfI	3.0	3.0	5.0	1.5
M09-252032	PGTSYBfI	4.3	4.3	1.0	1.0
M09-252048	P+WT+GT+BIYBrI	2.8	2.8	5.0	3.5
M09-252049	P+WGTIYBfI	3.5	3.5	4.0	3.0
M09-261065	WTBDYBrI	3.8	3.8	2.0	1.0
M09-261067	P+WTBSYB	4.8	4.8	5.0	1.0
M09-261084	WGBSYBI	4.5	4.5	5.0	1.5
M09-262111	WGTSYYI	4.0	4.0	2.0	1.5
M09-340060	P+WT+GB+TSYYI	2.8	2.8	3.0	0.9
M09-340084	WTBDYGI	2.0	2.0	1.0	2.6
M09-525015	PTBSYBI	3.3	3.3	1.0	1.1
M09-525033	PGTIYYI	3.3	3.3	1.0	2.4
M11-115357	WTBIYBI	4.3	4.3	4.0	4.0
ND11-16223	PGTSYYI	3.3	3.3	1.0	3.5
ND11-16225	PGTSYYI	3.8	3.8	2.0	3.5
ND11-16241	PGTSYYI	2.5	2.5	1.0	1.5
ND11-16553	PGTSYYI	2.8	2.8	1.0	4.5
ND11-16628	PGTIYYI	3.1	3.1	1.0	3.0
ND11-19471	PGTSYYI	4.1	4.1	3.0	1.9
ND11-19483	PGTSYYI	3.9	3.9	3.0	3.0
ND11-20868	PGTDYYI	2.5	2.5	1.0	3.0
ND12-15651	PGTIYYI	2.3	2.3	1.0	2.0
ND12-15653	PGTIYBf+YI	2.5	2.5	1.0	2.5
ND12-15670	PGTSYYI	1.0	1.0	1.0	2.0
ND12-17339	PGTIYYI	2.0	2.0	2.0	2.5
ND12-17541	PGTSYYI	2.6	2.6	3.0	2.5
ND12-19542	PGTSYBrI	2.0	2.0	2.0	3.0
ND12-2670	PGTSYYI	2.8	2.8	2.0	4.1
OAC 13-64C-ChCdn	PTBSYGI	4.8	4.8	5.0	2.9

PRELIMINARY TEST 0, 2015

REGIONAL SUMMARY

No. of Tests Strain	Yield 6 bu/a	Rank 6 No.	Maturity 6 Date	Lodging 6 Score	Plant Height 6 In.	Seed Size 6 g/100	Seed Quality 5 Score	Composition Protein 5 %	 Oil 5 %
Sheyenne (0)	48.9	26	9/20	1.2	30	15.0	1.5	36.6	20.2
MN0095 (E)	41.4	37	-5.2	1.3	27	12.6	1.6	37.6	20.1
MN0606CN (SCN)	51.3	15	4.9	1.4	29	15.2	1.4	36.8	19.7
MN1410 (I)	55.0	2	8.8	1.7	34	16.0	1.8	37.5	19.9
M08-144031	48.0	29	5.1	1.4	31	20.7	1.7	38.2	19.5
M09-240005	54.8	3	6.0	1.3	31	15.6	1.4	36.1	19.8
M09-251028	49.7	21	7.3	1.3	33	15.3	1.6	36.8	20.4
M09-251081	53.3	7	1.9	1.3	31	15.2	1.4	37.8	20.4
M09-251100	50.6	17	0.8	1.2	32	16.7	1.6	37.0	20.6
M09-252032	53.2	8	4.5	1.5	33	17.6	1.8	37.7	20.4
M09-252048	53.2	8	7.5	1.6	33	19.7	1.9	37.4	20.1
M09-252049	53.9	6	8.6	1.5	33	15.9	1.6	36.5	19.9
M09-261065	53.2	8	4.6	1.4	31	16.9	1.6	38.3	19.4
M09-261067	48.4	28	4.6	1.5	32	16.7	1.8	37.8	19.7
M09-261084	50.6	17	1.3	1.4	30	16.4	1.6	37.7	19.9
M09-262111	50.0	20	5.3	1.3	30	15.7	2.0	37.5	20.1
M09-340060	50.9	16	3.5	1.2	28	16.3	1.8	38.8	19.1
M09-340084	49.7	21	1.6	1.4	29	14.7	1.6	36.5	20.3
M09-525015	48.5	27	-1.0	1.2	30	16.3	1.7	37.9	20.3
M09-525033	55.5	1	6.0	1.4	35	18.4	1.8	38.3	19.7
M11-115357	51.4	14	9.5	1.7	33	16.7	1.6	38.9	19.7
ND11-16223	50.4	19	0.5	1.3	30	14.5	1.8	36.8	19.6
ND11-16225	49.2	25	-0.8	1.2	30	14.7	1.6	36.2	19.9
ND11-16241	52.1	11	1.1	1.3	30	15.4	2.0	36.7	20.0
ND11-16553	51.6	13	-1.3	1.2	30	15.0	1.8	36.1	19.8
ND11-16628	49.7	21	-1.0	1.4	31	15.2	1.9	36.2	20.7
ND11-19471	47.0	30	-1.8	1.3	29	13.5	1.6	35.8	19.8
ND11-19483	54.3	5	0.5	1.3	31	15.1	1.5	35.6	20.6
ND11-20868	54.5	4	1.5	1.2	30	14.6	1.6	36.0	20.3
ND12-15651	45.2	33	-4.8	1.2	27	12.7	1.6	36.9	20.0
ND12-15653	45.5	32	-2.7	1.3	29	12.4	1.6	37.7	20.0
ND12-15670	46.4	31	-2.3	1.3	27	14.2	1.6	37.2	19.9
ND12-17339	44.5	35	-2.9	1.2	29	14.7	1.6	38.3	19.2
ND12-17541	44.9	34	-3.1	1.3	26	14.5	1.6	36.2	20.6
ND12-19542	52.0	12	2.7	1.2	31	16.0	1.7	37.0	20.1
ND12-2670	49.6	24	-0.8	1.2	30	15.2	1.6	38.0	19.6
OAC 13-64C-ChCdn	44.4	36	0.0	1.2	28	17.5	1.6	39.7	19.5
Mean	50.2			1.3	29.9	15.9	1.8		
C.V. (%)	32.5			45.7	18.3	12.8	26.0		
L.S.D. (5%)	12.8			0.5	4.1	1.1	0.7		

113.5 Days After Planting

PRELIMINARY TEST 0, 2015

YIELD (bu/a)

Strain	Mean 6 Tests	Morris MN	Rose-mount MN	Cassel-ton ND	Elora ONT	Wood-stock ONT	St Mathieu de Beloeil QUE
Sheyenne (0)	48.9	41.6	46.7	50.7	54.4	26.0	74.0
MN0095 (E)	41.4	36.2	45.1	44.3	42.3	12.7	67.9
MN0606CN (SCN)	51.3	48.4	44.0	56.2	49.8	26.9	82.6
MN1410 (I)	55.0	49.9	57.4	59.3	58.6	27.6	77.4
M08-144031	48.0	45.0	50.2	30.6	59.6	25.6	76.7
M09-240005	54.8	47.7	50.7	61.6	53.1	28.4	87.1
M09-251028	49.7	36.4	46.0	54.4	54.0	31.4	75.8
M09-251081	53.3	42.9	55.8	61.5	56.6	23.4	79.7
M09-251100	50.6	47.1	50.9	49.6	54.4	22.0	79.6
M09-252032	53.2	49.9	50.9	53.5	57.0	25.3	82.3
M09-252048	53.2	52.3	50.9	55.1	57.2	27.8	75.7
M09-252049	53.9	51.8	51.5	53.7	53.3	32.6	80.2
M09-261065	53.2	44.4	48.6	59.8	60.7	29.7	75.8
M09-261067	48.4	44.1	47.8	33.9	54.3	29.0	81.4
M09-261084	50.6	38.1	47.6	56.6	57.5	26.2	77.5
M09-262111	50.0	41.7	50.2	52.7	54.1	28.9	72.3
M09-340060	50.9	45.1	51.6	53.6	53.6	28.6	72.6
M09-340084	49.7	47.4	48.1	56.8	53.7	22.4	69.9
M09-525015	48.5	41.8	48.4	54.1	46.8	24.2	75.4
M09-525033	55.5	50.7	57.6	54.9	58.8	28.0	83.1
M11-115357	51.4	50.1	43.5	58.3	54.8	30.8	70.7
ND11-16223	50.4	45.3	47.4	55.7	51.0	20.6	82.4
ND11-16225	49.2	42.8	53.5	58.9	46.3	17.3	76.5
ND11-16241	52.1	47.3	55.5	54.6	52.2	32.1	70.7
ND11-16553	51.6	43.7	51.7	50.4	59.0	24.3	80.5
ND11-16628	49.7	41.6	44.8	56.7	57.7	23.0	74.5
ND11-19471	47.0	40.6	51.8	51.6	45.2	23.3	69.5
ND11-19483	54.3	49.2	49.4	61.2	56.4	25.2	84.5
ND11-20868	54.5	50.0	54.5	56.6	53.3	27.7	84.8
ND12-15651	45.2	43.4	48.6	50.3	48.0	21.2	59.7
ND12-15653	45.5	35.1	40.3	55.5	48.6	22.4	71.0
ND12-15670	46.4	40.5	40.7	57.1	51.8	17.0	71.1
ND12-17339	44.5	41.0	41.4	51.8	39.4	23.0	70.6
ND12-17541	44.9	36.6	45.6	42.3	54.2	22.2	68.5
ND12-19542	52.0	40.9	47.3	58.3	61.7	24.8	78.8
ND12-2670	49.6	46.5	43.8	51.3	52.0	24.5	79.2
OAC 13-64C-ChCdn	44.4	35.3	50.4	31.6	50.0	28.3	70.8
Location Mean		44.1	48.6	54.6	54.0	25.3	75.8
C.V. (%)		13.7	6.9	14.9	6.0	10.9	5.6
L.S.D. (5%)		12.2	6.8	12.6	6.4	5.6	8.8
Row Sp. (In.)		30	30	30	14	14	7
Rows/Plot		4	4	4	4	4	5
Reps		2	2	3	2	2	3

PRELIMINARY TEST 0, 2015

YIELD RANK

Strain	Yield Rank	Morris MN	Rose-mount MN	Cassel-ton ND	Elora ONT	Wood-stock ONT	St Mathieu de Beloeil QUE
Sheyenne (0)	26	26	27	29	14	17	24
MN0095 (E)	37	35	30	33	36	37	36
MN0606CN (SCN)	15	9	32	14	30	15	5
MN1410 (I)	2	6	2	5	6	14	16
M08-144031	29	17	16	37	3	18	17
M09-240005	3	10	14	1	24	9	1
M09-251028	21	34	28	20	19	3	19
M09-251081	7	22	3	2	11	25	11
M09-251100	17	13	11	32	14	32	12
M09-252032	8	6	11	24	10	19	7
M09-252048	8	1	11	17	9	12	21
M09-252049	6	2	10	22	22	1	10
M09-261065	8	18	19	4	2	5	20
M09-261067	28	19	23	35	16	6	8
M09-261084	17	32	24	12	8	16	15
M09-262111	20	25	16	25	18	7	26
M09-340060	16	16	9	23	21	8	25
M09-340084	21	11	22	10	20	29	33
M09-525015	27	24	21	21	33	24	22
M09-525033	1	3	1	18	5	11	4
M11-115357	14	4	34	7	13	4	31
ND11-16223	19	15	25	15	28	34	6
ND11-16225	25	23	6	6	34	35	18
ND11-16241	11	12	4	19	25	2	30
ND11-16553	13	20	8	30	4	23	9
ND11-16628	21	26	31	11	7	27	23
ND11-19471	30	30	7	27	35	26	34
ND11-19483	5	8	18	3	12	20	3
ND11-20868	4	5	5	12	22	13	2
ND12-15651	33	21	19	31	32	33	37
ND12-15653	32	37	37	16	31	29	28
ND12-15670	31	31	36	9	27	36	27
ND12-17339	35	28	35	26	37	27	32
ND12-17541	34	33	29	34	17	31	35
ND12-19542	12	29	26	7	1	21	14
ND12-2670	24	14	33	28	26	22	13
OAC 13-64C-ChCdn	36	36	15	36	29	10	29

PRELIMINARY TEST 0, 2015

MATURITY (date)

Strain	Mean 6 Tests	Morris MN	Rose-mount MN	Cassel-ton ND	Elora ONT	Wood-stock ONT	St Mathieu de Beloeil QUE
Sheyenne (0)	9/20	9/14	9/16	9/18	9/29	9/19	9/25
MN0095 (E)	-5	-6	-7	-4	-4	-3	-7
MN0606CN (SCN)	5	4	2	2	2	11	5
MN1410 (I)	9	5	6	16	4	7	8
M08-144031	5	2	2	9	0	8	4
M09-240005	6	4	4	8	4	8	4
M09-251028	7	3	3	13	3	7	6
M09-251081	2	0	2	3	2	1	2
M09-251100	1	0	0	1	-1	1	2
M09-252032	5	1	1	11	2	2	3
M09-252048	8	4	2	10	7	6	7
M09-252049	9	7	4	13	5	9	8
M09-261065	5	3	1	8	2	4	5
M09-261067	5	2	-1	18	-2	4	4
M09-261084	1	0	-1	5	-2	3	2
M09-262111	5	4	3	9	3	5	4
M09-340060	4	1	0	2	2	6	4
M09-340084	2	0	0	1	1	4	1
M09-525015	-1	-2	-2	-1	-1	1	0
M09-525033	6	6	5	11	1	8	4
M11-115357	10	7	9	18	5	8	7
ND11-16223	1	1	0	3	-2	3	-2
ND11-16225	-1	-2	-1	4	-2	1	-5
ND11-16241	1	0	2	1	0	5	-2
ND11-16553	-1	1	1	-1	-3	1	-2
ND11-16628	-1	-1	-1	-1	-2	1	-2
ND11-19471	-2	-2	-2	-1	-3	1	-4
ND11-19483	1	1	0	0	-2	3	1
ND11-20868	2	2	3	4	0	3	-1
ND12-15651	-5	-5	-2	-6	-6	-3	-7
ND12-15653	-3	-3	-3	-2	-3	2	-7
ND12-15670	-2	-3	-4	-2	-2	3	-6
ND12-17339	-3	-2	-3	-4	-2	0	-7
ND12-17541	-3	-4	-3	-1	-4	0	-7
ND12-19542	3	0	1	0	3	5	0
ND12-2670	-1	0	-2	2	-3	2	-3
OAC 13-64C-ChCdn	0	0	-2	1	0	3	-2
Date Planted	5/29	5/22	6/6	5/5	5/28	6/5	6/19
Days to Mature	113.5	115	102	136	124	106	98

PRELIMINARY TEST 0, 2015

LODGING (score)

Strain	Mean 6 Tests	Morris MN	Rose-mount MN	Cassel-ton ND	Elora ONT	Wood-stock ONT	St Mathieu de Beloeil QUE
Sheyenne (0)	1.2	1.0	2.0	1.0	1.1	1.0	1.0
MN0095 (E)	1.3	1.0	3.0	1.0	1.0	1.0	1.0
MN0606CN (SCN)	1.4	1.0	3.0	1.0	1.1	1.0	1.0
MN1410 (I)	1.7	1.0	3.0	1.0	1.4	1.0	2.5
M08-144031	1.4	1.0	3.0	1.0	1.1	1.0	1.5
M09-240005	1.3	1.0	2.5	1.0	1.3	1.0	1.0
M09-251028	1.3	1.0	2.0	1.0	1.1	1.0	1.5
M09-251081	1.3	1.0	2.5	1.0	1.0	1.0	1.0
M09-251100	1.2	1.0	2.0	1.0	1.2	1.0	1.0
M09-252032	1.5	1.0	3.0	1.0	1.4	1.0	1.5
M09-252048	1.6	1.0	3.0	1.0	1.4	1.0	2.0
M09-252049	1.5	1.0	3.0	1.0	1.2	1.0	1.5
M09-261065	1.4	1.0	2.0	1.0	1.4	1.0	2.0
M09-261067	1.5	1.0	3.0	1.0	1.2	1.0	2.0
M09-261084	1.4	1.0	2.5	1.0	1.1	1.0	2.0
M09-262111	1.3	1.0	2.5	1.0	1.0	1.0	1.0
M09-340060	1.2	1.0	2.0	1.0	1.0	1.0	1.0
M09-340084	1.4	1.0	2.5	1.0	1.1	1.0	1.5
M09-525015	1.2	1.0	2.0	1.0	1.1	1.0	1.0
M09-525033	1.4	1.0	2.5	1.0	1.1	1.0	1.5
M11-115357	1.7	1.0	2.5	1.0	1.6	1.0	3.0
ND11-16223	1.3	1.0	3.0	1.0	1.0	1.0	1.0
ND11-16225	1.2	1.0	2.0	1.0	1.0	1.0	1.0
ND11-16241	1.3	1.0	2.5	1.0	1.2	1.0	1.0
ND11-16553	1.2	1.0	2.0	1.0	1.0	1.0	1.0
ND11-16628	1.4	1.0	3.0	1.0	1.2	1.0	1.0
ND11-19471	1.3	1.0	2.5	1.0	1.0	1.0	1.0
ND11-19483	1.3	1.0	2.5	1.0	1.1	1.0	1.0
ND11-20868	1.2	1.0	2.0	1.0	1.0	1.0	1.0
ND12-15651	1.2	1.0	2.0	1.0	1.2	1.0	1.0
ND12-15653	1.3	1.0	2.5	1.0	1.2	1.0	1.0
ND12-15670	1.3	1.0	2.5	1.0	1.2	1.0	1.0
ND12-17339	1.2	1.0	2.0	1.0	1.2	1.0	1.0
ND12-17541	1.3	1.0	2.5	1.0	1.0	1.0	1.0
ND12-19542	1.2	1.0	2.0	1.0	1.1	1.0	1.0
ND12-2670	1.2	1.0	2.0	1.0	1.0	1.0	1.0
OAC 13-64C-ChCdn	1.2	1.0	2.0	1.0	1.3	1.0	1.0

PRELIMINARY TEST 0, 2015

PLANT HEIGHT (inches)

Strain	Mean 6 Tests	Morris MN	Rose-mount MN	Cassel-ton ND	Elora ONT	Wood-stock ONT	St Mathieu de Beloeil QUE
Sheyenne (0)	30	26	36	25	34	24	32
MN0095 (E)	27	24	34	24	30	21	28
MN0606CN (SCN)	29	28	36	24	31	25	32
MN1410 (I)	34	34	40	30	37	27	34
M08-144031	31	30	40	22	35	23	33
M09-240005	31	25	38	30	35	22	34
M09-251028	33	33	42	29	35	24	36
M09-251081	31	31	36	27	33	23	34
M09-251100	32	33	40	29	34	23	32
M09-252032	33	32	35	23	40	28	39
M09-252048	33	36	36	30	38	21	35
M09-252049	33	33	37	27	36	26	36
M09-261065	31	27	37	28	35	27	32
M09-261067	32	26	39	24	40	28	35
M09-261084	30	25	37	27	37	23	32
M09-262111	30	34	37	23	31	21	31
M09-340060	28	26	34	24	31	22	32
M09-340084	29	28	35	29	30	23	31
M09-525015	30	31	33	26	33	25	34
M09-525033	35	35	41	29	41	26	35
M11-115357	33	33	40	29	37	25	36
ND11-16223	30	27	37	29	28	24	32
ND11-16225	30	27	35	29	32	24	31
ND11-16241	30	27	36	29	29	24	32
ND11-16553	30	29	37	29	31	22	32
ND11-16628	31	28	38	25	35	24	35
ND11-19471	29	24	39	26	29	23	33
ND11-19483	31	31	36	27	31	26	34
ND11-20868	30	29	36	27	32	25	32
ND12-15651	27	26	36	23	28	19	28
ND12-15653	29	24	38	23	32	25	33
ND12-15670	27	23	33	23	30	23	32
ND12-17339	29	24	36	24	32	25	32
ND12-17541	26	23	36	22	25	21	30
ND12-19542	31	30	36	27	34	26	31
ND12-2670	30	28	36	26	31	26	35
OAC 13-64C-ChCdn	28	26	35	23	31	24	30

PRELIMINARY TEST 0, 2015

SEED SIZE (g/100)

Strain	Mean 6 Tests	Morris MN	Rose-mount MN	Cassel-ton ND	Elora ONT	Wood-stock ONT	St Mathieu de Beloeil QUE
Sheyenne (0)	15.0	15.2	14.5	14.9	14.4	14.5	16.2
MN0095 (E)	12.6	12.6	12.4	12.6	12.7	11.9	13.5
MN0606CN (SCN)	15.2	14.2	15.2	14.7	15.1	15.8	15.9
MN1410 (I)	16.0	16.1	16.5	15.7	13.5	16.1	18.1
M08-144031	20.7	21.5	23.3	19.9	19.8	19.8	19.9
M09-240005	15.6	14.3	15.8	13.9	16.5	15.5	17.5
M09-251028	15.3	15.5	16.0	14.1	14.3	14.6	17.3
M09-251081	15.2	14.7	16.1	13.9	14.8	15.3	16.1
M09-251100	16.7	15.9	17.2	15.6	16.5	16.0	18.9
M09-252032	17.6	17.7	16.9	16.5	17.6	16.9	20.1
M09-252048	19.7	19.3	19.2	17.9	19.0	20.4	22.3
M09-252049	15.9	16.5	15.0	14.8	14.8	16.3	17.9
M09-261065	16.9	16.7	17.4	16.1	16.6	16.7	18.1
M09-261067	16.7	17.1	16.5	15.2	16.4	16.7	18.2
M09-261084	16.4	16.0	17.3	14.9	17.2	15.2	17.6
M09-262111	15.7	17.0	15.8	14.7	15.1	15.9	15.9
M09-340060	16.3	17.0	16.4	14.7	16.4	16.1	17.2
M09-340084	14.7	15.1	15.0	12.9	15.4	15.2	14.8
M09-525015	16.3	16.7	15.4	14.7	16.5	16.3	18.1
M09-525033	18.4	18.5	19.1	17.2	18.2	19.2	18.4
M11-115357	16.7	16.9	16.9	14.3	15.9	17.7	18.5
ND11-16223	14.5	15.2	14.1	14.5	14.5	14.1	14.3
ND11-16225	14.7	15.8	14.8	14.9	15.0	13.2	14.6
ND11-16241	15.4	17.0	15.2	14.3	15.5	14.7	15.8
ND11-16553	15.0	15.3	15.4	14.3	14.8	14.5	15.4
ND11-16628	15.2	16.6	15.3	13.7	15.3	15.4	14.8
ND11-19471	13.5	13.7	13.3	13.7	13.1	13.2	13.7
ND11-19483	15.1	15.2	14.7	15.1	13.9	14.5	17.2
ND11-20868	14.6	15.1	14.3	14.1	15.1	14.1	15.1
ND12-15651	12.7	12.9	13.1	13.2	12.5	11.7	12.5
ND12-15653	12.4	13.0	12.7	12.4	11.4	12.2	12.7
ND12-15670	14.2	15.0	14.1	14.6	13.3	13.3	14.7
ND12-17339	14.7	15.1	15.1	13.3	14.9	14.1	15.7
ND12-17541	14.5	15.3	14.1	13.4	15.1	14.3	14.5
ND12-19542	16.0	16.2	15.2	16.4	15.2	16.2	16.8
ND12-2670	15.2	15.7	15.0	14.2	15.7	15.3	15.2
OAC 13-64C-ChCdn	17.5	16.7	17.1	15.2	18.7	18.0	19.4

PRELIMINARY TEST 0, 2015

SEED QUALITY (score)

Strain	Mean 5 Tests	Morris MN	Rose-mount MN	Cassel-ton ND	Elora ONT	Wood-stock ONT	St Mathieu de Beloeil QUE
Sheyenne (0)	1.5	2.0	2.0	1.0	1.0	1.5	
MN0095 (E)	1.6	2.0	2.0	1.0	1.5	1.5	
MN0606CN (SCN)	1.4	2.0	1.0	1.0	1.5	1.5	
MN1410 (I)	1.8	2.0	2.0	1.0	1.5	2.5	
M08-144031	1.7	2.0	2.0	1.0	1.5	2.0	
M09-240005	1.4	2.0	1.0	1.0	1.5	1.5	
M09-251028	1.6	2.0	2.0	1.0	1.5	1.5	
M09-251081	1.4	2.0	1.0	1.0	1.5	1.5	
M09-251100	1.6	2.0	2.0	1.0	1.5	1.5	
M09-252032	1.8	3.0	2.0	1.0	1.5	1.5	
M09-252048	1.9	3.0	2.0	1.0	1.5	2.0	
M09-252049	1.6	2.0	2.0	1.0	1.5	1.5	
M09-261065	1.6	2.0	2.0	1.0	1.5	1.5	
M09-261067	1.8	2.0	2.0	1.0	1.5	2.5	
M09-261084	1.6	2.0	2.0	1.0	1.5	1.5	
M09-262111	2.0	3.0	3.0	1.0	1.5	1.5	
M09-340060	1.8	3.0	2.0	1.0	1.5	1.5	
M09-340084	1.6	3.0	1.0	1.0	1.5	1.5	
M09-525015	1.7	2.0	2.0	1.0	1.5	2.0	
M09-525033	1.8	2.0	3.0	1.0	1.5	1.5	
M11-115357	1.6	2.0	2.0	1.0	1.5	1.5	
ND11-16223	1.8	3.0	2.0	1.0	1.5	1.5	
ND11-16225	1.6	2.0	2.0	1.0	1.5	1.5	
ND11-16241	2.0	4.0	2.0	1.0	1.5	1.5	
ND11-16553	1.8	3.0	2.0	1.0	1.5	1.5	
ND11-16628	1.9	3.0	2.0	2.0	1.5	1.0	
ND11-19471	1.6	2.0	2.0	1.0	1.5	1.5	
ND11-19483	1.5	2.0	2.0	1.0	1.0	1.5	
ND11-20868	1.6	2.0	2.0	1.0	1.5	1.5	
ND12-15651	1.6	2.0	2.0	1.0	1.5	1.5	
ND12-15653	1.6	2.0	2.0	1.0	1.5	1.5	
ND12-15670	1.6	2.0	2.0	1.0	1.5	1.5	
ND12-17339	1.6	2.0	2.0	1.0	1.5	1.5	
ND12-17541	1.6	2.0	2.0	1.0	1.5	1.5	
ND12-19542	1.7	2.0	2.0	1.0	2.0	1.5	
ND12-2670	1.6	2.0	2.0	1.0	1.5	1.5	
OAC 13-64C-ChCdn	1.6	2.0	2.0	1.0	1.5	1.5	

PRELIMINARY TEST 0, 2015

PROTEIN (%)

Strain	Mean 5 Tests	Morris MN	Rosemount MN	Casselton ND	Woodstock ONT	St Mathieu de Beloeil QUE
Sheyenne (0)	36.6	33.8	34.7	32.4	42.7	39.4
MN0095 (E)	37.6	34.6	35.2	34.0	43.0	41.2
MN0606CN (SCN)	36.8	33.1	34.1	34.3	42.9	39.4
MN1410 (I)	37.5	36.0	34.4	34.3	42.9	39.7
M08-144031	38.2	35.8	34.7	36.3	43.4	40.8
M09-240005	36.1	34.0	33.1	33.4	41.2	38.8
M09-251028	36.8	35.1	34.5	34.3	42.2	38.1
M09-251081	37.8	35.2	34.8	35.2	44.3	39.7
M09-251100	37.0	36.3	33.5	34.4	41.9	39.1
M09-252032	37.7	35.9	34.4	34.9	43.9	39.3
M09-252048	37.4	35.1	35.0	35.3	42.8	38.9
M09-252049	36.5	33.3	35.2	33.3	42.0	38.5
M09-261065	38.3	36.0	36.1	35.4	43.6	40.4
M09-261067	37.8	36.3	35.6	34.5	42.9	39.9
M09-261084	37.7	35.7	35.3	34.5	42.9	40.2
M09-262111	37.5	35.1	36.2	34.7	42.5	39.1
M09-340060	38.8	36.0	36.3	36.9	43.8	41.0
M09-340084	36.5	34.8	33.2	33.7	42.1	38.7
M09-525015	37.9	34.8	36.4	34.1	43.8	40.5
M09-525033	38.3	35.7	37.7	35.4	42.7	39.8
M11-115357	38.9	36.4	38.5	35.4	43.3	41.1
ND11-16223	36.8	34.1	34.0	34.0	42.3	39.5
ND11-16225	36.2	33.3	33.0	33.8	42.2	38.8
ND11-16241	36.7	34.2	35.0	33.7	41.6	39.1
ND11-16553	36.1	33.2	33.8	32.8	41.9	38.8
ND11-16628	36.2	34.7	34.0	31.9	41.5	38.8
ND11-19471	35.8	33.2	33.8	33.0	40.1	38.9
ND11-19483	35.6	34.1	33.2	31.4	41.1	38.4
ND11-20868	36.0	32.7	32.9	33.7	41.6	39.0
ND12-15651	36.9	34.0	34.8	32.5	42.4	40.6
ND12-15653	37.7	35.6	36.0	34.2	42.4	40.1
ND12-15670	37.2	34.3	35.0	33.5	42.9	40.3
ND12-17339	38.3	36.1	35.1	35.1	43.4	41.8
ND12-17541	36.2	32.6	34.2	32.6	42.3	39.1
ND12-19542	37.0	34.9	32.9	34.3	42.6	40.2
ND12-2670	38.0	35.8	35.5	34.8	43.7	40.4
OAC 13-64C-ChCdn	39.7	37.7	38.0	35.4	45.1	42.5

PRELIMINARY TEST 0, 2015

OIL (%)

Strain	Mean 5 Tests	Morris MN	Rosemount MN	Casselton ND	Woodstock ONT	St Mathieu de Beloeil QUE
Sheyenne (0)	20.2	19.9	19.2	20.3	20.5	21.0
MN0095 (E)	20.1	19.7	18.6	20.3	20.7	21.3
MN0606CN (SCN)	19.7	19.0	18.1	19.6	20.9	21.1
MN1410 (I)	19.9	19.1	18.0	19.3	21.2	21.9
M08-144031	19.5	18.5	18.4	19.3	20.5	21.0
M09-240005	19.8	19.0	18.2	19.3	21.1	21.6
M09-251028	20.4	19.6	19.1	19.4	21.4	22.3
M09-251081	20.4	19.4	19.3	20.0	21.1	22.3
M09-251100	20.6	19.8	19.3	20.1	21.5	22.1
M09-252032	20.4	18.6	19.5	20.0	21.7	22.2
M09-252048	20.1	18.6	19.3	19.3	21.3	21.9
M09-252049	19.9	18.8	18.2	19.9	21.1	21.7
M09-261065	19.4	18.1	18.5	18.8	20.3	21.1
M09-261067	19.7	18.2	18.4	19.6	20.9	21.4
M09-261084	19.9	18.1	19.4	19.6	21.0	21.4
M09-262111	20.1	19.4	18.7	19.6	21.0	22.0
M09-340060	19.1	17.9	17.4	18.5	20.9	21.0
M09-340084	20.3	18.9	19.0	20.2	21.1	22.2
M09-525015	20.3	18.9	19.3	20.5	21.1	21.9
M09-525033	19.7	19.1	17.9	19.0	21.0	21.6
M11-115357	19.7	17.9	18.6	19.0	21.6	21.6
ND11-16223	19.6	18.4	19.0	19.1	20.8	20.7
ND11-16225	19.9	18.6	19.2	19.4	20.9	21.4
ND11-16241	20.0	18.6	19.2	19.5	21.2	21.3
ND11-16553	19.8	18.4	19.1	20.1	20.6	20.7
ND11-16628	20.7	19.5	19.7	21.0	21.2	22.0
ND11-19471	19.8	19.1	18.9	19.8	20.5	20.9
ND11-19483	20.6	19.5	19.9	20.5	21.4	21.5
ND11-20868	20.3	20.5	19.1	19.5	20.9	21.4
ND12-15651	20.0	18.6	19.0	20.7	20.5	21.2
ND12-15653	20.0	20.0	18.3	19.8	20.7	21.3
ND12-15670	19.9	18.7	19.3	20.1	20.3	21.1
ND12-17339	19.2	18.4	18.0	19.2	20.2	20.4
ND12-17541	20.6	19.8	19.1	20.9	21.3	21.8
ND12-19542	20.1	19.7	18.7	20.0	20.9	21.0
ND12-2670	19.6	18.6	18.3	19.7	20.4	20.9
OAC 13-64C-ChCdn	19.5	17.5	19.8	18.8	20.5	21.0

UNIFORM TEST I, 2015

Ent.	Strain	Parentage	Seed Source	Previous Testing	Gen. Comp.	Unique Traits
1	MN1410 (I)	Unknown	Orf	10	F5	
2.	IA1022 (SCN)	Dairyland 98822 x A00-711024	Fehr	9	F5	SCN
3.	Sheyenne (0)	Pioneer 9071 x A96-492041	Helms	8	F4	Rps1-c
4.	AR13-132037	AR06-264007 x Golden Harvest H-2285	Cianzio	PTI	F4	PR
5.	M07-278122	M00-110002 x Sheyenne	Orf	1	F5	
6.	M08-224032	M01-242042 x MN1013	Orf	PTI	F5	Diversity
7.	M08-391087	Sheyenne x M02-141020	Orf	PTI	F5	
8.	OAC 12-61C	Colby x OAC 05-30	Rajcan	PTI	F5	
9.	OAC 12-86C	OAC 01-26 x A05-112034	Rajcan	PTI	F5	
10.	U11-917032	LD02-4485 x U03-100612	Graef	1	F6	SCN HR, MR.; SCNI Test
11.	U11-932025	U06-300952 x U03-100612	Graef	1	F6	Rps hetero. for Race 25
12.	U11-932079	U06-300952 x U03-100612	Graef	1	F6	Rps Race 17 & 25 resistance
13.	U12-921005	U06-206737 x U00-409006	Graef	PTI	F4	Rps 7(?) & 25. Rps 3c?

UNIFORM TEST I, 2015

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	IDC Score Lamberton	IDC Score Waseca	Shattering Score Manhattan	SDS Data Fairbury, IL DX Rank
MN1410 (I)	WGTSYBfI	4.0	4.0	3.0	18.3
IA1022 (SCN)	PGTSYYI	4.3	4.3	1.0	20.6
Sheyenne (0)	PGTSYYI	2.0	2.0	1.0	1.1
AR13-132037	PGTDYBfI	3.0	3.0	3.0	1.1
M07-278122	WGTDYYI	4.0	4.0	3.0	3.3
M08-224032	PGTSYYI	3.0	3.0	1.0	3.9
M08-391087	PGTDYBfI	2.5	2.5	1.0	14.2
OAC 12-61C	PTBDYYI	3.3	3.3	1.0	13.3
OAC 12-86C	PGTDYYI	3.0	3.0	3.0	2.2
U11-917032	PTBDYBI	2.3	2.3	1.0	0.0
U11-932025	P+WGBDYDibI	4.0	4.0	1.0	0.0
U11-932079	PGBSYDibI	4.3	4.3	1.0	2.5
U12-921005	PGTDYDibI	3.5	3.5	1.0	0.8

LSD: 14.0

UNIFORM TEST I, 2015

REGIONAL SUMMARY

No. of Tests Strain	Yield 14 bu/a	Rank 14 No.	Maturity 13 Date	Lodging 13 Score	Plant Height 13 In.	Seed Size 12 g/100	Seed Quality 11 Score	Composition Protein 7 %	 Oil 7 %
MN1410 (I)	63.1	7	9/16	1.6	34	17.0	1.5	38.7	20.5
IA1022 (SCN)	65.5	4	4.9	1.7	31	15.9	1.7	35.5	21.7
Sheyenne (0)	51.9	13	-6.8	1.3	29	16.0	2.0	37.8	20.2
AR13-132037	67.4	1	6.0	1.7	35	16.7	1.8	38.0	19.8
M07-278122	63.0	8	-2.0	1.4	33	14.3	1.7	36.4	19.8
M08-224032	52.0	12	-4.1	1.3	31	17.0	1.4	38.3	20.8
M08-391087	59.4	11	-0.1	1.2	35	17.8	1.7	39.1	20.0
OAC 12-61C	59.9	10	3.5	1.4	32	16.8	1.6	37.0	20.9
OAC 12-86C	64.6	6	6.5	1.4	33	18.5	1.7	38.8	19.6
U11-917032	67.2	2	5.5	1.7	31	16.6	1.7	36.2	21.4
U11-932025	65.8	3	5.0	1.3	30	17.1	1.6	38.3	20.2
U11-932079	62.3	9	3.8	1.3	30	16.0	1.5	37.0	20.5
U12-921005	64.9	5	4.7	1.5	30	19.8	1.7	37.4	21.0
Mean	63.3			1.5	34.0	17.5	1.6		
C.V. (%)	22.7			49.3	17.0	10.3	30.1		
L.S.D. (5%)	6.8			0.4	3.8	0.8	0.4		

120.3 Days After Planting

2014-2015 2-YEAR MEAN

No. of Tests Strain	Yield 25 bu/a	Rank 25 No.	Maturity 23 Date	Lodging 23 Score	Plant Height 22 In.	Seed Size 20 g/100	Seed Quality 17 Score	Composition Protein 13 %	 Oil 13 %
MN1410 (I)	61.1	6	9/18	1.8	34	18.1	1.7	37.5	19.6
IA1022 (SCN)	63.5	3	4.2	1.8	31	16.8	1.5	34.6	20.6
Sheyenne (0)	50.2	7	-5.6	1.3	28	16.8	2.1	36.5	19.3
M07-278122	61.9	5	-1.5	1.6	33	15.4	1.6	35.3	18.9
U11-917032	65.3	2	4.4	1.9	31	17.2	1.9	35.3	20.2
U11-932025	65.9	1	4.7	1.3	30	17.9	1.7	37.0	19.4
U11-932079	63.1	4	3.5	1.5	29	17.0	1.6	35.7	19.6

121.6 Days After Planting

UNIFORM TEST I, 2015

YIELD (bu/a)

Strain	Mean 14 Tests	Boone County IA	Kanawha IA	Wanatah IN	West Lafayette IN*	Ingham County MI	Saginaw County MI	Lamber-ton MN
MN1410 (I)	63.1	58.3	43.4	37.4	37.1	53.8	62.3	73.1
IA1022 (SCN)	65.5	63.5	62.9	38.6	34.9	53.8	71.5	61.3
Sheyenne (0)	51.9	43.3	44.2	25.7	30.2	30.8	53.9	58.3
AR13-132037	67.4	56.3	59.6	38.7	51.1	63.1	68.0	73.7
M07-278122	63.0	56.8	57.1	34.9	35.4	59.2	61.7	70.1
M08-224032	52.0	46.8	44.2	26.6	33.3	35.5	51.6	60.5
M08-391087	59.4	48.2	61.2	37.9	37.1	50.7	62.7	56.3
OAC 12-61C	59.9	57.3	49.4	36.3	35.7	50.2	67.0	52.6
OAC 12-86C	64.6	58.7	56.5	38.8	40.9	60.3	73.7	61.1
U11-917032	67.2	73.0	56.9	35.5	42.4	60.0	69.9	72.6
U11-932025	65.8	59.5	53.4	38.5	42.5	43.5	63.1	65.1
U11-932079	62.3	64.3	52.0	36.7	48.7	26.7	64.9	72.2
U12-921005	64.9	55.6	49.2	37.3	39.7	61.7	65.6	64.5
Location Mean		57.3	53.4	37.3	37.1	53.8	64.9	64.5
C.V. (%)		9.2	11.7	13.5	15.7	14.4	7.1	12.8
L.S.D. (5%)		11.4	13.5	4.5	4.4	21.6	12.2	13.5
Row Sp. (In.)		30	30	30	30	15	15	30
Rows/Plot		4	4	4	4	6	6	4
Reps		2	2	3	3	2	2	3

*Data not included in the mean.

UNIFORM TEST I, 2015

YIELD (bu/a)

Strain	Waseca MN	Cotes-field NE	Hooper NE	Worms NE	Ridge-town ONT	St. Pauls ONT	Wood-Stock ONT	Saint Hyacinthe QUE
MN1410 (I)	61.9	87.3	78.3	74.8	69.0	62.3	47.5	73.6
IA1022 (SCN)	65.1	89.8	82.3	72.8	73.9	59.4	41.7	80.7
Sheyenne (0)	53.5	67.9	70.6	68.3	50.9	50.5	34.1	74.2
AR13-132037	67.4	95.3	83.4	83.0	74.8	61.3	37.5	81.0
M07-278122	60.7	83.3	81.5	74.8	67.8	59.9	39.9	73.8
M08-224032	53.7	65.1	67.5	62.0	61.0	50.3	32.8	70.7
M08-391087	51.3	79.7	74.3	68.5	63.6	55.2	42.7	79.1
OAC 12-61C	49.8	83.6	81.5	72.3	49.8	61.9	49.3	77.3
OAC 12-86C	60.9	69.5	82.4	74.6	73.0	65.4	43.2	86.8
U11-917032	67.2	88.5	86.9	83.8	65.1	62.2	39.5	79.4
U11-932025	64.7	92.6	83.6	94.9	66.8	65.2	48.6	81.4
U11-932079	55.5	80.1	85.4	85.4	67.6	61.9	37.9	81.1
U12-921005	59.2	90.4	81.0	85.3	72.3	59.6	43.2	84.2
Location Mean	60.7	83.6	81.5	74.8	67.6	61.3	41.7	79.4
C.V. (%)	8.1	9.2	50.1	4.8	8.1	7.9	11.8	6.8
L.S.D. (5%)	7.8	18.8	10.0	9.1	5.8	7.9	8.3	9.0
Row Sp. (In.)	30	30	30	30	17	14	14	14.2
Rows/Plot	4	4	4	4	5	4	4	4
Reps	3	2	2	2	3	3	3	3

UNIFORM TEST I, 2015

YIELD RANK

Strain	Yield Rank	Boone County IA	Kanawha IA	Wanatah IN	West Lafayette IN	Ingham County MI	Saginaw County MI	Lamber-ton MN
MN1410 (I)	7	6	13	6	7	6	10	2
IA1022 (SCN)	4	3	1	3	11	6	2	8
Sheyenne (0)	13	13	11	13	13	11	12	11
AR13-132037	1	9	3	2	1	1	4	1
M07-278122	8	8	4	11	10	5	11	5
M08-224032	12	12	11	12	12	10	13	10
M08-391087	11	11	2	5	7	7	9	12
OAC 12-61C	10	7	9	9	9	8	5	13
OAC 12-86C	6	5	6	1	5	3	1	9
U11-917032	2	1	5	10	4	4	3	3
U11-932025	3	4	7	4	3	9	8	6
U11-932079	9	2	8	8	2	12	7	4
U12-921005	5	10	10	7	6	2	6	7

MATURITY (date)

Strain	Mean 13 Tests	Boone County IA	Kanawha IA	Wanatah IN	West Lafayette IN	Ingham County MI	Saginaw County MI	Lamber-ton MN
MN1410 (I)	9/16	9/13	9/19	9/14	9/9	9/18		9/24
IA1022 (SCN)	5	3	4	7	7	3		3
Sheyenne (0)	-7	-7	-10	-5	-7	-6		-8
AR13-132037	6	8	5	9	10	7		3
M07-278122	-2	0	-2	-3	-3	-5		-1
M08-224032	-4	-7	-5	-2	-2	-6		-4
M08-391087	-0	0	-2	4	3	-2		0
OAC 12-61C	3	4	2	8	12	4		1
OAC 12-86C	7	4	6	8	6	5		2
U11-917032	6	5	5	9	9	6		1
U11-932025	5	6	4	8	9	4		2
U11-932079	4	5	3	8	9	5		0
U12-921005	5	3	5	8	5	4		2
Date Planted	05/19	5/13	5/13	5/22	5/27	5/22		5/20
Days to Mature	120.3	123	129	115	105	119		127

UNIFORM TEST I, 2015

YIELD RANK

Strain	Waseca MN	Cotes-field NE	Hooper NE	Worms NE	Ridge-town ONT	St. Pauls ONT	Wood-Stock ONT	Saint Hyacinthe QUE
MN1410 (I)	5	6	10	6	5	3	3	12
IA1022 (SCN)	3	4	6	9	2	10	7	6
Sheyenne (0)	11	12	12	12	12	12	12	10
AR13-132037	1	1	4	5	1	7	11	5
M07-278122	7	8	7	6	6	8	8	11
M08-224032	10	13	13	13	11	13	13	13
M08-391087	12	10	11	11	10	11	6	8
OAC 12-61C	13	7	7	10	13	5	1	9
OAC 12-86C	6	11	5	8	3	1	4	1
U11-917032	2	5	1	4	9	4	9	7
U11-932025	4	2	3	1	8	2	2	3
U11-932079	9	9	2	2	7	5	10	4
U12-921005	8	3	9	3	4	9	4	2

MATURITY (date)

Strain	Waseca MN	Cotes-field NE	Hooper NE	Worms NE	Ridge-town ONT	St. Pauls ONT	Wood-Stock ONT	Saint Hyacinthe QUE
MN1410 (I)	9/20		9/14	9/13	8/31	9/27	9/23	9/25
IA1022 (SCN)	6		6	2	6	9	4	3
Sheyenne (0)	-7		-4	-9	-4	-9	-7	-6
AR13-132037	7		8	4	7	1	6	2
M07-278122	0		-1	-3	-2	-1	-0	-3
M08-224032	-3		-3	-5	0	-8	-5	-4
M08-391087	1		-1	-3	-1	1	-1	0
OAC 12-61C	4		5	1	3	-2	3	-1
OAC 12-86C	7		7	1	7	9	8	10
U11-917032	6		6	1	7	4	8	1
U11-932025	5		7	2	3	4	6	2
U11-932079	4		6	0	2	2	4	-1
U12-921005	4		2	2	6	3	8	5
Date Planted	5/16		5/30	5/19	5/13	5/21	5/22	5/16
Days to Mature	127		107	117	110	129	124	132

UNIFORM TEST I, 2015

LODGING (score)

Strain	Mean 13 Tests	Boone County IA	Kanawha IA	Wanatah IN	West Lafayette IN	Ingham County MI	Saginaw County MI	Lamber-ton MN
MN1410 (I)	1.6	2.0	2.3	1.2	1.0	1.5	1.0	1.7
IA1022 (SCN)	1.7	1.5	2.3	1.0	1.0	1.5	1.0	1.7
Sheyenne (0)	1.3	1.0	1.5	1.0	1.0	1.0	1.0	1.3
AR13-132037	1.7	2.5	2.5	1.3	1.0	1.5	1.0	2.0
M07-278122	1.4	1.0	2.0	1.0	1.0	1.0	1.0	2.0
M08-224032	1.3	1.0	1.5	1.0	1.0	1.0	1.0	1.0
M08-391087	1.2	1.0	1.5	1.0	1.0	1.0	1.0	1.0
OAC 12-61C	1.4	1.5	2.0	1.3	1.0	1.0	1.0	2.0
OAC 12-86C	1.4	1.0	2.0	1.0	1.0	1.0	1.0	1.3
U11-917032	1.7	2.5	2.0	1.3	1.2	1.0	1.0	1.7
U11-932025	1.3	1.5	2.0	1.3	1.0	1.0	1.0	1.0
U11-932079	1.3	2.0	2.0	1.0	1.0	1.0	1.0	1.3
U12-921005	1.5	1.0	1.8	1.0	1.0	1.0	1.0	1.3

PLANT HEIGHT (inches)

Strain	Mean 13 Tests	Boone County IA	Kanawha IA	Wanatah IN	West Lafayette IN	Ingham County MI	Saginaw County MI	Lamber-ton MN
MN1410 (I)	34	36	35	25	22	28	33	38
IA1022 (SCN)	31	28	33	22	15	24	34	37
Sheyenne (0)	29	28	28	18	15	20	29	34
AR13-132037	35	41	37	29	23	30	35	40
M07-278122	33	36	35	23	17	23	31	40
M08-224032	31	32	35	20	18	23	29	38
M08-391087	35	38	37	27	22	27	35	41
OAC 12-61C	32	36	36	24	20	23	33	39
OAC 12-86C	33	34	34	26	21	24	34	37
U11-917032	31	34	34	24	19	25	29	36
U11-932025	30	32	32	23	19	22	25	32
U11-932079	30	34	30	21	20	21	29	33
U12-921005	30	26	31	22	19	21	31	30

UNIFORM TEST I, 2015

LODGING (score)

Strain	Waseca MN	Cotes-field NE	Hooper NE	Worms NE	Ridge-town ONT	St. Pauls ONT	Wood-Stock ONT	Saint Hyacinthe QUE
MN1410 (I)	2.3		1.0		2.0	1.0	1.0	3.3
IA1022 (SCN)	3.0		1.0		1.7	1.7	1.0	3.7
Sheyenne (0)	2.3		1.0		1.3	1.0	1.0	2.0
AR13-132037	2.7		1.0		2.0	1.0	1.2	2.3
M07-278122	3.0		1.0		1.7	1.2	1.0	1.7
M08-224032	2.3		1.0		1.3	1.0	1.0	3.0
M08-391087	2.3		1.0		1.3	1.0	1.0	1.3
OAC 12-61C	2.7		1.0		1.0	1.0	1.0	2.0
OAC 12-86C	2.0		1.0		1.0	1.0	1.0	3.7
U11-917032	2.7		1.5		1.3	1.2	1.0	3.3
U11-932025	2.0		1.0		1.0	1.0	1.0	2.3
U11-932079	2.0		1.0		1.0	1.0	1.0	1.0
U12-921005	2.7		1.0		1.3	1.2	1.0	4.0

PLANT HEIGHT (inches)

Strain	Waseca MN	Cotes-field NE	Hooper NE	Worms NE	Ridge-town ONT	St. Pauls ONT	Wood-Stock ONT	Saint Hyacinthe QUE
MN1410 (I)	36		39		36	41	29	43
IA1022 (SCN)	36		38		33	39	30	40
Sheyenne (0)	32		38		31	34	24	41
AR13-132037	41		34		38	37	29	43
M07-278122	36		35		36	39	28	44
M08-224032	33		38		34	33	27	42
M08-391087	41		34		37	41	29	44
OAC 12-61C	33		40		31	37	31	40
OAC 12-86C	35		34		37	39	30	43
U11-917032	36		39		30	35	27	38
U11-932025	35		34		35	35	28	39
U11-932079	32		38		34	31	26	38
U12-921005	30		37		32	37	27	42

UNIFORM TEST I, 2015

SEED SIZE (g/100)

Strain	Mean 12 Tests	Boone County IA	Kanawha IA	Wanatah IN	West Lafayette IN	Ingham County MI	Saginaw County MI	Lamber-ton MN
MN1410 (I)	17.0		15.1	15.8	16.2	18.4		16.9
IA1022 (SCN)	15.9		15.3	15.5	15.6	15.1		15.2
Sheyenne (0)	16.0		13.9	14.8	15.6	16.5		15.5
AR13-132037	16.7		14.7	14.8	15.0	16.2		18.8
M07-278122	14.3		14.2	13.6	13.2	14.1		14.6
M08-224032	17.0		16.0	16.0	16.3	16.5		17.5
M08-391087	17.8		17.0	17.3	17.5	18.2		16.8
OAC 12-61C	16.8		14.0	15.0	16.1	15.8		16.7
OAC 12-86C	18.5		17.0	16.6	17.8	19.4		16.1
U11-917032	16.6		16.3	14.4	14.4	15.9		17.3
U11-932025	17.1		15.0	15.5	15.2	16.7		16.6
U11-932079	16.0		14.2	15.2	15.0	16.3		15.4
U12-921005	19.8		16.6	17.4	17.8	19.5		18.4

SEED QUALITY (score)

Strain	Mean 11 Tests	Boone County IA	Kanawha IA	Wanatah IN	West Lafayette IN	Ingham County MI	Saginaw County MI	Lamber-ton MN
MN1410 (I)	1.5		1.0	1.0	1.0			2.0
IA1022 (SCN)	1.7		1.0	1.0	1.0			2.0
Sheyenne (0)	2.0		2.0	1.5	1.5			2.0
AR13-132037	1.8		2.0	1.0	1.0			2.0
M07-278122	1.7		2.0	1.5	1.0			2.0
M08-224032	1.4		1.0	1.0	1.0			1.0
M08-391087	1.7		1.0	1.0	1.5			2.0
OAC 12-61C	1.6		1.0	1.0	1.0			2.0
OAC 12-86C	1.7		1.0	1.0	1.5			2.0
U11-917032	1.7		1.0	1.0	1.5			2.0
U11-932025	1.6		1.0	1.0	1.0			2.0
U11-932079	1.5		1.0	1.0	1.0			2.0
U12-921005	1.7		1.0	1.0	1.0			2.0

UNIFORM TEST I, 2015

SEED SIZE (g/100)

Strain	Waseca MN	Cotes-field NE	Hooper NE	Worms NE	Ridge-town ONT	St. Pauls ONT	Wood-Stock ONT	Saint Hyacinthe QUE
MN1410 (I)	16.9	18.0	17.0		19.0	16.9	17.1	17.1
IA1022 (SCN)	15.2	17.0	16.0		17.3	15.6	16.6	16.3
Sheyenne (0)	15.5	18.0	17.0		17.6	16.0	15.0	17.1
AR13-132037	18.8	17.0	17.0		19.2	14.9	16.7	17.3
M07-278122	14.6	15.0	14.0		15.6	13.8	14.1	15.3
M08-224032	17.5	18.0	16.0		19.3	16.4	15.3	19.1
M08-391087	16.8	19.0	18.0		19.7	17.3	16.3	19.6
OAC 12-61C	16.7	16.0	17.0		17.9	19.2	18.0	18.8
OAC 12-86C	16.1	19.0	19.0		21.8	19.4	19.4	20.1
U11-917032	17.3	17.0	18.0		18.3	16.4	15.8	17.8
U11-932025	16.6	18.0	18.0		19.7	18.0	17.8	18.3
U11-932079	15.4	17.0	17.0		17.2	15.5	16.0	17.4
U12-921005	18.4	21.0	21.0		24.6	20.0	20.5	22.6

SEED QUALITY (score)

Strain	Waseca MN	Cotes-field NE	Hooper NE	Worms NE	Ridge-town ONT	St. Pauls ONT	Wood-Stock ONT	Saint Hyacinthe QUE
MN1410 (I)	2.0	1.0	2.0		1.0	1.5	1.5	3.0
IA1022 (SCN)	2.0	2.0	2.0		1.0	1.5	2.0	3.0
Sheyenne (0)	2.0	3.0	2.0		1.7	2.0	1.5	3.0
AR13-132037	2.0	2.0	1.0		1.7	1.5	2.0	4.0
M07-278122	2.0	2.0	2.0		1.0	1.5	1.5	2.3
M08-224032	1.0	2.0	2.0		1.0	1.5	1.5	2.0
M08-391087	2.0	2.0	2.0		1.0	1.5	1.5	3.0
OAC 12-61C	2.0	2.0	2.0		1.0	1.5	1.5	3.0
OAC 12-86C	2.0	2.0	2.0		1.0	1.5	1.5	2.7
U11-917032	2.0	2.0	2.0		1.0	1.5	1.5	3.3
U11-932025	2.0	2.0	2.0		1.0	1.5	1.5	2.7
U11-932079	2.0	2.0	2.0		1.0	1.5	1.5	2.0
U12-921005	2.0	2.0	2.0		1.0	1.5	1.5	4.0

UNIFORM TEST I, 2015

PROTEIN (%)

Strain	Mean 7 Tests	Wanatah IN	West Lafayette IN	Waseca MN	Ridge-town ONT	St. Pauls ONT	Wood-Stock ONT	Saint Hyacinthe QUE
MN1410 (I)	38.7	35.1	35.5	33.9	43.0	42.0	40.9	40.7
IA1022 (SCN)	35.5	32.5	32.9	31.9	39.0	38.8	37.3	35.9
Sheyenne (0)	37.8	33.9	34.7	33.6	42.0	41.4	40.6	38.3
AR13-132037	38.0	33.8	34.6	34.5	42.0	41.6	40.0	39.8
M07-278122	36.4	32.1	32.8	31.5	40.0	40.4	39.6	38.6
M08-224032	38.3	34.7	35.8	33.0	42.0	41.3	40.9	40.4
M08-391087	39.1	36.0	36.6	34.3	43.0	41.9	41.3	40.9
OAC 12-61C	37.0	32.4	33.7	33.9	40.0	40.7	39.2	39.3
OAC 12-86C	38.8	34.7	35.3	34.0	43.0	42.4	41.1	40.8
U11-917032	36.2	32.2	32.9	32.2	39.0	39.9	39.1	38.2
U11-932025	38.3	34.4	35.1	33.7	42.0	42.2	41.0	39.8
U11-932079	37.0	32.9	33.3	34.1	40.0	40.4	39.6	38.6
U12-921005	37.4	33.6	34.9	33.0	42.0	40.3	39.2	39.1

OIL (%)

Strain	Mean 7 Tests	Wanatah IN	West Lafayette IN	Waseca MN	Ridge-town ONT	St. Pauls ONT	Wood-Stock ONT	Saint Hyacinthe QUE
MN1410 (I)	20.5	19.8	19.5	18.8	21.2	21.0	21.7	21.3
IA1022 (SCN)	21.7	20.9	21.2	19.4	23.2	21.6	22.9	22.9
Sheyenne (0)	20.2	19.5	19.9	18.5	20.8	20.2	21.0	21.6
AR13-132037	19.8	19.2	19.7	17.3	20.8	20.2	21.1	20.3
M07-278122	19.8	19.7	19.7	17.5	20.7	19.9	20.8	20.4
M08-224032	20.8	20.2	19.9	19.3	21.5	21.0	21.5	22.0
M08-391087	20.0	19.4	19.1	18.5	20.6	20.3	21.1	20.9
OAC 12-61C	20.9	20.4	20.7	19.1	22.0	20.9	21.8	21.3
OAC 12-86C	19.6	19.2	19.6	17.7	20.3	19.8	20.6	20.3
U11-917032	21.4	20.8	21.2	19.3	22.8	21.5	22.3	21.6
U11-932025	20.2	19.7	19.9	18.5	20.9	20.5	21.5	20.6
U11-932079	20.5	19.8	20.4	18.3	21.2	21.1	21.9	21.0
U12-921005	21.0	20.3	19.9	19.5	21.8	21.4	22.2	21.6

PRELIMINARY TEST I, 2015

Ent.	Strain	Parentage	Seed Source	Gen. Comp.	Unique Traits
1	MN1410 (I)	Unknown	Orf	F5	
2.	IA1022 (SCN)	Dairyland 98822 x A00-711024	Fehr	F5	SCN
3.	Sheyenne (0)	Pioneer 9071 x A96-492041	Helms	F4	Rps1-c
4.	MLG09-5431032		Orf	F5	Diversity
5.	M08-608014	R01-52F x MN0094SP	Orf	F5	Wilt N2
6.	M08-608027	R01-52F x MN0094SP	Orf	F5	Wilt N3
7.	M08-608033	R01-52F x MN0094SP	Orf	F5	Wilt N4
8.	M09-223022	MS05-112002 x MS05-119006	Orf	F5	IDC
9.	M09-226039	MN1410 x AR2	Orf	F5	IDC
10.	M09-240047	M03-163106 x OAC06-32	Orf	F5	Phyto
11.	M09-240061	M03-163106 x OAC06-32	Orf	F5	Phyto
12.	M09-241044	M03-160082 x M03-289027	Orf	F5	SSR MA
13.	M09-251149	PI578425 x M04-267028	Orf	F5	Wilt
14.	M09-252085	MTC00-113-61-7 x PI384469A	Orf	F5	Wilt
15.	M09-261079	M03-198033 x M02-403070	Orf	F5	Wilt
16.	M09-261089	M03-198033 x M02-403070	Orf	F5	Wilt
17.	M09-305042	M01-315029 x OAC05-17	Orf	F5	Oil
18.	M09-305119	M01-315029 x OAC05-17	Orf	F5	Oil
19.	M09-305139	M01-315029 x OAC05-17	Orf	F5	Oil
20.	M09-335008	HE FENG 53 x MN0304	Orf	F5	Diversity
21.	M09-335025	HE FENG 53 x MN0304	Orf	F5	Diversity
22.	M09-340038	M02-495076 x MN1013	Orf	F5	Diversity
23.	M09-340043	M02-495076 x MN1013	Orf	F5	Diversity
24.	M09-340063	M02-495076 x MN1013	Orf	F5	Diversity
25.	M09-343023	MN1410 x M03-381022	Orf	F5	Diversity
26.	M09-343025	MN1410 x M03-381022	Orf	F5	Diversity
27.	M10-274172	MN1805SP x MN1606SP	Orf	F5	SDS
28.	OAC 13-67C-ChCdn	Katrina x Jilin No. 69	Rajcan	F5	Canadian x Chinese Cross
29.	OAC 13-85C-SCN	SC Starfield (SCN) x OAC Wallace	Rajcan	F5	
30.	OAC 13-87C-SCN	SC Starfield (SCN) x OAC Wallace	Rajcan	F5	
31.	ORC 3713N	Starfield x SC 2307	Eskandari	F5	SCN, PI 88788
32.	ORC 7512N	SV 90-03MFA x HD Goshen	Eskandari	F5	SCN, PI 88789
33.	U13-608110	U09-312115 x U03-260216	Graef	F5	Rps
34.	U13-904037	U09-215057 x U09-233044	Graef	F5	Rps
35.	U13-905029	U09-215057 x U03-260216	Graef	F5	Rps
36.	U13-910045	U09-233044 x U09-312115	Graef	F5	Rps
37.	U13-911014	U09-209069 x U09-311114	Graef	F5	Rps
38.	U13-912010	U09-209069 x U09-311114	Graef	F5	Rps
39.	U13-912032	U09-209069 x U09-311114	Graef	F5	Rps
40.	U13-913034	U09-209069 x U09-311114	Graef	F5	Rps
41.	U13-916028	U09-323109 x U03-260216	Graef	F5	
42.	U13-918042	U09-234083 x U09-209069	Graef	F5	
43.	U13-926082	U09-209069 x U09-311114	Graef	F5	Rps

PRELIMINARY TEST I, 2015

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	IDC Score Lamberton	IDC Score Waseca	Shattering Score Manhattan
MN1410 (I)	WGTSYBfI	3.5	3.5	3.0
IA1022 (SCN)	PGTSYYI	2.8	2.8	1.0
Sheyenne (0)	PGTSYYI	2.5	2.5	1.0
MLG09-5431032	WGBSYGI	2.8	2.8	1.0
M08-608014	WT+GB+TIYBrI	2.3	2.3	2.0
M08-608027	P+WT+GB+TSYBrI	3.3	3.3	1.0
M08-608033	P+TT+GB+TDYBrI	1.8	1.8	1.0
M09-223022	P+WTBSYBI	1.5	1.5	1.0
M09-226039	P+WGTSYBfI	3.5	3.5	3.0
M09-240047	PGTSYBfI	1.5	1.5	0.0
M09-240061	WGTSYBfI	2.5	2.5	1.0
M09-241044	P+WT+GB+TSYLbrI	3.5	3.5	2.0
M09-251149	PGTSYBfI	1.8	1.8	2.0
M09-252085	WT+GB+TSYBfI	4.0	4.0	4.0
M09-261079	P+WT+GB+TSYBfI	3.8	3.8	2.0
M09-261089	PTBSYBrI	3.8	3.8	1.0
M09-305042	PTBSYLbrI	2.8	2.8	1.0
M09-305119	P+WTBSYBrI	2.0	2.0	5.0
M09-305139	WTBSYBrI	1.8	1.8	5.0
M09-335008	P+WGTSYYI	1.5	1.5	5.0
M09-335025	P+WGTSYGI	1.8	1.8	2.0
M09-340038	P+WGTSYYI	2.0	2.0	1.0
M09-340043	P+WT+GB+TSYG	2.3	2.3	1.0
M09-340063	WTBSYGI	1.5	1.5	1.0
M09-343023	P+WTBSYBI	1.8	1.8	3.0
M09-343025	P+WT+GB+TSYBI	2.3	2.3	2.0
M10-274172	PGTSYYI	2.8	2.8	1.0
OAC 13-67C-ChCdn	WTBSYGI	4.8	4.8	1.0
OAC 13-85C-SCN	PTBSYG+Br	3.5	3.5	2.0
OAC 13-87C-SCN	WTBSYLbrI	3.5	3.5	2.0
ORC 3713N	PGTDYYI	2.8	2.8	3.0
ORC 7512N	PGTDYYI	3.3	3.3	1.0
U13-608110	PTTDYDibI	3.5	3.5	2.0
U13-904037	PTBSYDibI	3.3	3.3	2.0
U13-905029	PTBIYBI	3.8	3.8	1.0
U13-910045	PTBDYDibI	3.0	3.0	1.0
U13-911014	WGBDYBfI	3.3	3.3	2.0
U13-912010	P+WGTDYLbfI	3.8	3.8	3.0
U13-912032	WGBIYGI	2.8	2.8	3.0
U13-913034	WGTDYGI	2.5	2.5	1.0
U13-916028	P+WGTSYDibI	2.8	2.8	2.0
U13-918042	P+WT+GTIYBI	3.0	3.0	2.0
U13-926082	WGBDYGI	3.0	3.0	1.0

PRELIMINARY TEST I, 2015

REGIONAL SUMMARY

No. of Tests Strain	Yield 10 bu/a	Rank 10 No.	Maturity 11 Date	Lodging 10 Score	Plant Height 10 In.	Seed Size 10 g/100	Seed Quality 9 Score	Composition Protein 8 %	 Oil 8 %
MN1410 (I)	66.2	18	9/16	1.7	35	17.7	1.7	38.0	20.1
IA1022 (SCN)	68.6	13	4.2	2.0	34	16.0	1.9	34.4	21.2
Sheyenne (0)	56.8	38	-6.0	1.4	30	16.9	2.2	36.8	19.8
MLG09-5431032	64.7	21	6.1	2.1	38	15.3	1.9	36.6	20.3
M08-608014	62.7	27	2.6	1.7	34	17.5	2.0	36.3	20.5
M08-608027	61.0	31	6.6	1.3	31	18.3	1.8	38.5	19.5
M08-608033	61.7	30	6.4	2.0	33	18.5	1.9	39.0	19.3
M09-223022	67.6	16	0.2	1.3	34	19.4	1.9	36.4	19.6
M09-226039	63.8	22	-1.0	1.4	34	15.9	1.9	37.0	19.8
M09-240047	63.8	22	-1.4	1.6	35	16.5	1.5	36.3	19.8
M09-240061	69.0	11	3.6	2.0	35	18.8	1.7	36.0	20.8
M09-241044	60.8	32	3.7	2.5	35	15.5	1.9	35.7	19.9
M09-251149	56.8	38	-1.3	1.6	31	17.6	1.9	37.3	20.4
M09-252085	62.5	28	2.2	2.2	38	18.8	1.7	36.4	20.5
M09-261079	63.1	25	-1.7	1.4	35	17.9	1.8	37.3	20.2
M09-261089	59.7	34	-2.7	1.9	37	20.0	1.6	38.3	19.8
M09-305042	63.4	24	-2.2	1.6	32	17.3	2.0	34.6	20.9
M09-305119	59.5	35	-0.3	2.1	34	15.6	2.1	34.4	21.5
M09-305139	65.1	20	-0.2	2.1	34	16.9	2.1	34.9	21.4
M09-335008	50.6	43	-4.5	2.0	34	17.1	2.1	38.1	19.4
M09-335025	55.1	41	-5.7	1.6	29	16.8	1.9	38.3	19.7
M09-340038	55.8	40	-3.5	1.4	31	16.0	1.6	37.1	20.2
M09-340043	54.2	42	-5.4	1.5	28	17.1	1.9	37.9	19.9
M09-340063	58.5	36	-0.7	1.6	31	16.4	2.0	37.9	19.5
M09-343023	62.3	29	-3.5	1.9	33	17.1	1.9	38.5	19.7
M09-343025	65.5	19	5.3	2.1	36	15.3	1.7	37.3	20.0
M10-274172	63.1	25	4.2	1.8	36	21.2	1.6	40.8	18.8
OAC 13-67C-ChCdn	57.9	37	0.1	1.5	34	19.6	1.7	38.7	19.6
OAC 13-85C-SCN	67.3	17	1.3	1.4	37	18.0	1.9	35.3	20.9
OAC 13-87C-SCN	60.5	33	-1.3	1.5	34	18.7	1.9	35.8	20.9
ORC 3713N	70.2	8	6.2	1.6	38	19.3	1.7	36.0	21.0
ORC 7512N	70.2	8	1.8	1.8	30	19.0	1.8	38.9	18.8
U13-608110	68.5	14	9.8	1.4	36	14.3	1.8	35.7	20.3
U13-904037	68.0	15	7.8	1.8	40	15.8	1.8	35.6	19.9
U13-905029	72.7	5	9.1	1.6	36	15.9	1.6	36.2	20.3
U13-910045	70.3	7	7.6	1.3	36	14.9	1.7	35.2	20.0
U13-911014	68.8	12	5.2	1.9	38	16.1	1.7	36.1	20.6
U13-912010	73.3	3	6.5	1.4	35	17.2	1.8	35.8	20.2
U13-912032	73.8	1	10.0	2.1	37	16.6	1.8	36.3	20.8
U13-913034	69.3	10	6.9	1.8	35	17.7	1.7	36.3	20.2
U13-916028	70.5	6	8.2	1.6	37	14.7	1.7	35.7	20.1
U13-918042	73.4	2	8.0	1.5	37	16.8	1.9	36.2	20.2
U13-926082	72.8	4	8.1	1.6	37	18.3	1.7	35.7	20.4
Mean	63.8			1.8	36.1	17.7	1.8		
C.V. (%)	21.7			44.8	17.9	11.0	27.3		
L.S.D. (5%)	7.5			0.5	3.9	1.3	0.5		

120.7 Days After Planting

PRELIMINARY TEST I, 2015

YIELD (bu/a)

Strain	Mean 10 Tests	Boone County IA	Kanawha IA*	West Lafayette IN*	Ingham County MI	Lamber-ton MN	Waseca MN
MN1410 (I)	66.2	48.2	55.2	60.4	58.1	56.6	63.3
IA1022 (SCN)	68.6	67.1	59.3	59.4	47.7	54.1	67.0
Sheyenne (0)	56.8	37.2	51.2	57.5	34.8	52.4	62.9
MLG09-5431032	64.7	61.8	50.2	57.5	47.4	50.0	49.9
M08-608014	62.7	59.0	51.7	55.9	38.1	51.3	57.1
M08-608027	61.0	58.4	46.2	55.8	41.5	58.5	55.8
M08-608033	61.7	61.1	55.5	55.3	42.1	51.5	56.9
M09-223022	67.6	54.8	49.4	54.8	58.2	56.0	63.9
M09-226039	63.8	52.0	56.6	54.4	44.4	57.6	63.7
M09-240047	63.8	52.7	42.2	54.3	43.3	57.7	67.5
M09-240061	69.0	58.7	54.1	54.0	42.9	51.5	66.4
M09-241044	60.8	53.5	41.0	53.9	46.4	46.3	52.0
M09-251149	56.8	58.1	58.0	53.6	49.2	53.8	47.7
M09-252085	62.5	55.4	56.7	52.3	57.0	49.4	58.5
M09-261079	63.1	56.5	45.5	47.3	46.2	54.7	58.8
M09-261089	59.7	41.5	48.2	46.2	57.9	53.8	43.1
M09-305042	63.4	56.7	48.6	45.8	35.0	60.1	64.4
M09-305119	59.5	55.5	53.1	45.6	42.0	50.1	58.7
M09-305139	65.1	56.7	49.3	45.4	48.1	52.5	58.4
M09-335008	50.6	40.1	45.1	45.2	40.6	46.8	50.5
M09-335025	55.1	49.3	45.8	44.8	42.1	40.9	56.4
M09-340038	55.8	55.8	42.0	44.3	37.0	52.4	51.4
M09-340043	54.2	52.8	42.9	44.1	35.7	50.5	54.9
M09-340063	58.5	53.5	43.8	43.5	45.5	43.6	51.1
M09-343023	62.3	56.9	51.8	43.2	56.0	57.8	60.4
M09-343025	65.5	55.9	42.9	42.9	54.7	61.1	61.6
M10-274172	63.1	57.7	48.2	42.8	41.7	51.3	53.9
OAC 13-67C-ChCdn	57.9	44.9	47.7	42.8	41.1	42.3	50.2
OAC 13-85C-SCN	67.3	61.8	51.2	42.1	53.3	59.9	57.8
OAC 13-87C-SCN	60.5	56.3	51.7	41.7	40.5	64.7	59.9
ORC 3713N	70.2	62.0	60.5	41.1	52.0	49.1	52.9
ORC 7512N	70.2	62.3	56.3	40.8	61.2	55.9	58.2
U13-608110	68.5	64.6	53.8	40.1	52.6	43.6	60.4
U13-904037	68.0	63.7	53.3	40.1	42.3	55.1	56.2
U13-905029	72.7	63.7	62.2	38.4	52.7	49.0	63.3
U13-910045	70.3	59.4	59.2	37.7	64.3	59.5	58.7
U13-911014	68.8	61.8	54.1	36.8	56.9	57.3	66.3
U13-912010	73.3	68.8	48.0	36.0	60.1	61.6	70.2
U13-912032	73.8	71.1	55.2	34.9	59.1	45.7	67.8
U13-913034	69.3	53.1	53.0	32.7	61.2	45.5	67.3
U13-916028	70.5	64.2	53.3	31.3	52.6	61.3	62.7
U13-918042	73.4	72.4	59.0	29.8	53.5	56.4	66.7
U13-926082	72.8	65.1	50.9	29.6	59.7	60.3	63.9
Location Mean		56.9	51.7	44.3	47.7	53.8	58.7
C.V. (%)		13.3	15.7	21.1	14.9	12.5	8.0
L.S.D. (5%)		15.3	16.2	8.3	17.7	13.3	9.4
Row Sp. (In.)		30	30	30	15	30	30
Rows/Plot		4	4	4	6	4	4
Reps		2	2	2	2	2	2

*Data not included in the mean.

PRELIMINARY TEST I, 2015

YIELD (bu/a)

Strain	Cotes-field NE	Hooper NE	Worms NE	Ridge-town ONT	St Pauls ONT	Saint Hacinthe QUE
MN1410 (I)	72.1	80.9	70.0	78.2	51.9	82.5
IA1022 (SCN)	81.4	76.3	81.1	72.3	63.0	75.7
Sheyenne (0)	57.6	67.4	65.0	64.7	52.6	73.3
MLG09-5431032	75.4	80.8	81.1	65.5	56.9	78.1
M08-608014	75.9	82.3	78.1	63.2	48.2	74.1
M08-608027	77.4	77.2	73.5	59.8	44.4	63.1
M08-608033	82.6	79.2	75.7	55.4	47.5	65.0
M09-223022	76.7	79.1	78.3	70.6	57.1	81.2
M09-226039	67.9	74.3	74.4	67.4	56.5	79.8
M09-240047	77.4	75.2	75.6	69.8	45.8	72.6
M09-240061	91.4	77.7	86.9	72.4	59.3	83.3
M09-241044	84.8	72.9	66.9	69.8	53.7	61.7
M09-251149	44.4	70.3	54.9	70.4	50.2	68.7
M09-252085	67.3	79.3	62.9	70.0	55.6	69.4
M09-261079	61.1	74.9	79.4	65.1	59.8	74.6
M09-261089	69.2	70.0	74.3	63.5	54.8	69.1
M09-305042	74.2	73.4	75.5	61.9	58.2	74.2
M09-305119	69.0	72.9	65.4	60.3	53.6	67.7
M09-305139	86.5	70.7	79.6	74.9	55.1	68.7
M09-335008	46.6	67.2	45.2	61.0	43.6	64.1
M09-335025	71.1	64.8	57.6	52.6	47.6	68.3
M09-340038	61.0	65.3	64.9	55.8	48.5	65.4
M09-340043	57.0	63.4	55.9	58.9	47.0	66.1
M09-340063	64.6	70.7	71.3	64.6	49.5	71.0
M09-343023	66.4	76.6	64.8	60.8	56.4	67.3
M09-343025	75.5	78.5	74.3	65.9	54.6	72.6
M10-274172	71.8	70.8	70.8	76.8	59.0	76.7
OAC 13-67C-ChCdn	74.7	65.3	70.6	65.1	49.7	74.9
OAC 13-85C-SCN	76.1	78.6	73.3	81.0	58.4	72.8
OAC 13-87C-SCN	61.9	74.3	55.8	69.1	57.1	65.3
ORC 3713N	93.7	81.6	85.7	76.2	62.5	86.3
ORC 7512N	82.8	82.4	74.1	81.0	62.3	82.1
U13-608110	93.8	84.3	77.8	67.6	56.9	83.6
U13-904037	87.2	88.2	87.7	65.2	52.1	82.4
U13-905029	92.2	88.5	89.5	70.3	70.9	86.8
U13-910045	89.7	80.6	83.1	71.8	55.6	80.4
U13-911014	82.6	80.9	76.1	65.0	59.8	81.8
U13-912010	90.4	86.3	85.5	66.1	59.9	83.8
U13-912032	101.9	84.2	88.2	76.1	48.2	96.2
U13-913034	88.5	83.6	80.9	60.6	63.8	88.1
U13-916028	81.0	83.3	88.5	68.0	60.9	82.3
U13-918042	92.0	82.7	84.5	76.0	60.9	88.5
U13-926082	89.7	80.7	86.2	65.7	73.5	82.8
Location Mean	76.1	77.7	75.5	66.1	55.6	74.6
C.V. (%)	9.7	6.7	7.6	8.2	9.1	6.8
L.S.D. (5%)	18.4	12.7	14.0	5.5	10.2	8.4
Row Sp. (In.)	30	30	30	17	14	14.2
Rows/Plot	4	4	4	5	4	4
Reps	2	2	2	2	2	3

PRELIMINARY TEST I, 2015

YIELD RANK

Strain	Yield Rank	Boone County IA	Kanawha IA	West Lafayette IN	Ingham County MI	Lamber-ton MN	Waseca MN
MN1410 (I)	18	39	11	1	7	14	13
IA1022 (SCN)	13	4	3	2	20	20	5
Sheyenne (0)	38	43	23	3	40	24	15
MLG09-5431032	21	13	26	3	21	32	41
M08-608014	27	17	21	5	36	28	28
M08-608027	31	19	34	6	32	8	32
M08-608033	30	15	10	7	29	26	29
M09-223022	16	31	27	8	6	16	10
M09-226039	22	37	8	9	25	12	12
M09-240047	22	36	41	10	26	11	3
M09-240061	11	18	13	11	27	26	7
M09-241044	32	32	43	12	22	37	36
M09-251149	38	20	6	13	18	21	42
M09-252085	28	30	7	14	9	33	24
M09-261079	25	25	36	15	23	19	21
M09-261089	34	41	30	16	8	22	43
M09-305042	24	24	29	17	39	6	9
M09-305119	35	29	18	18	30	31	22
M09-305139	20	23	28	19	19	23	25
M09-335008	43	42	37	20	34	36	39
M09-335025	41	38	35	21	29	43	30
M09-340038	40	28	42	22	37	24	37
M09-340043	42	35	39	23	38	30	33
M09-340063	36	33	38	24	24	40	38
M09-343023	29	22	20	25	11	10	18
M09-343025	19	27	39	26	12	4	17
M10-274172	25	21	30	27	31	28	34
OAC 13-67C-ChCdn	37	40	33	27	33	42	40
OAC 13-85C-SCN	17	12	23	29	14	7	27
OAC 13-87C-SCN	33	26	21	30	35	1	20
ORC 3713N	8	11	2	31	17	34	35
ORC 7512N	8	10	9	32	2	17	26
U13-608110	14	6	15	33	16	41	19
U13-904037	15	9	16	33	28	18	31
U13-905029	5	8	1	35	15	35	13
U13-910045	7	16	4	36	1	8	22
U13-911014	12	14	13	37	10	13	8
U13-912010	3	3	32	38	3	2	1
U13-912032	1	2	11	39	5	38	2
U13-913034	10	34	19	40	2	39	4
U13-916028	6	7	16	41	16	3	16
U13-918042	2	1	5	42	13	15	6
U13-926082	4	5	25	43	4	5	10

PRELIMINARY TEST I, 2015

YIELD RANK

Strain	Cotes-field NE	Hooper NE	Worms NE	Ridge-town ONT	St Pauls ONT	Saint Hacinthe QUE
MN1410 (I)	28	12	32	3	31	10
IA1022 (SCN)	17	25	11	10	4	20
Sheyenne (0)	40	38	35	30	29	25
MLG09-5431032	25	14	11	25	18	18
M08-608014	23	10	17	33	36	24
M08-608027	19	23	27	39	42	42
M08-608033	15	18	20	42	39	40
M09-223022	21	19	16	12	16	15
M09-226039	33	28	23	21	20	17
M09-240047	19	26	21	17	41	28
M09-240061	6	22	5	9	12	8
M09-241044	13	31	33	16	27	43
M09-251149	43	36	42	13	32	32
M09-252085	34	17	38	15	22	30
M09-261079	38	27	15	28	10	22
M09-261089	31	37	24	32	25	31
M09-305042	27	30	22	34	15	23
M09-305119	32	31	34	38	28	35
M09-305139	12	34	14	8	24	33
M09-335008	42	39	43	35	43	41
M09-335025	30	42	39	43	38	34
M09-340038	39	40	36	41	35	38
M09-340043	41	43	40	40	40	37
M09-340063	36	34	29	31	34	29
M09-343023	35	24	37	36	21	36
M09-343025	24	21	24	23	26	27
M10-274172	29	33	30	4	13	19
OAC 13-67C-ChCdn	26	40	31	27	33	21
OAC 13-85C-SCN	22	20	28	2	14	26
OAC 13-87C-SCN	37	28	41	18	16	39
ORC 3713N	3	11	7	5	5	5
ORC 7512N	14	9	26	1	6	13
U13-608110	2	4	18	20	18	7
U13-904037	11	2	4	26	30	11
U13-905029	4	1	1	14	2	4
U13-910045	8	16	10	11	22	16
U13-911014	15	12	19	29	10	14
U13-912010	7	3	8	22	9	6
U13-912032	1	5	3	6	36	1
U13-913034	10	6	13	37	3	3
U13-916028	18	7	2	19	7	12
U13-918042	5	8	9	7	7	2
U13-926082	8	15	6	24	1	9

PRELIMINARY TEST I, 2015

MATURITY (date)

Strain	Mean 11 Tests	Boone County IA	Kanawha IA	West Lafayette IN	Ingham County MI	Lamber-ton MN	Waseca MN
MN1410 (I)	9/16	9/8	9/21	9/9	9/19	9/23	9/21
IA1022 (SCN)	4	8	-1	4	1	10	8
Sheyenne (0)	-6	-4	-11	-4	-6	-3	-7
MLG09-5431032	6	10	2	7	3	11	3
M08-608014	3	12	2	5	-2	9	2
M08-608027	7	13	3	10	2	10	7
M08-608033	6	15	6	9	3	13	6
M09-223022	0	6	-1	1	1	2	-1
M09-226039	-1	5	-4	0	-2	-1	-2
M09-240047	-1	1	-5	1	-3	0	-3
M09-240061	4	10	1	2	2	8	3
M09-241044	4	8	-5	4	3	-1	0
M09-251149	-1	4	-3	-1	-3	-1	-4
M09-252085	2	6	1	1	0	1	0
M09-261079	-2	6	-6	0	-4	0	-3
M09-261089	-3	0	-6	0	-2	0	-5
M09-305042	-2	4	-4	2	-3	0	-4
M09-305119	-0	6	-4	4	0	0	-2
M09-305139	-0	7	-3	1	-3	0	-4
M09-335008	-5	0	-5	-3	-6	-1	-6
M09-335025	-6	0	-10	-3	-6	-9	-6
M09-340038	-4	-1	-6	6	-4	-4	-5
M09-340043	-5	-2	-10	-2	-6	-4	-6
M09-340063	-1	4	-1	0	-2	2	-2
M09-343023	-4	3	-8	-3	-4	-1	-6
M09-343025	5	8	-3	6	5	9	3
M10-274172	4	8	2	4	1	2	4
OAC 13-67C-ChCdn	0	6	-6	2	3	1	-1
OAC 13-85C-SCN	1	7	-5	12	-2	1	-2
OAC 13-87C-SCN	-1	8	-4	1	-1	2	-4
ORC 3713N	6	13	3	7	6	5	5
ORC 7512N	2	7	-3	2	3	3	0
U13-608110	10	15	5	13	8	7	10
U13-904037	8	13	3	12	7	6	8
U13-905029	9	15	6	12	7	9	11
U13-910045	8	13	4	10	8	5	8
U13-911014	5	11	2	11	4	5	8
U13-912010	7	12	-1	10	7	7	6
U13-912032	10	16	6	12	8	10	11
U13-913034	7	12	3	11	6	6	9
U13-916028	8	14	2	11	6	7	8
U13-918042	8	13	7	14	6	9	10
U13-926082	8	14	4	11	6	7	10
Date Planted	5/18	5/13	5/13	5/27	5/22	5/20	5/13
Days to Mature	120.7	118	131	105	120	126	131

PRELIMINARY TEST I, 2015

MATURITY (date)

Strain	Cotes-field NE	Hooper NE	Worms NE	Ridge-town ONT	St Pauls ONT	Saint Hacinthe QUE
MN1410 (I)		9/15	9/13	9/1	9/26	9/26
IA1022 (SCN)		5	3	5	10	3
Sheyenne (0)		-5	-9	-5	-5	-7
MLG09-5431032		3	1	6	17	6
M08-608014		5	2	-1	0	0
M08-608027		6	3	6	13	4
M08-608033		8	3	3	8	3
M09-223022		-2	-1	0	1	-2
M09-226039		-3	-2	-1	1	-3
M09-240047		-5	-4	-1	4	0
M09-240061		1	-1	0	10	7
M09-241044		0	2	6	17	3
M09-251149		-3	-2	-1	2	-2
M09-252085		-1	-1	0	14	0
M09-261079		-4	-3	-2	3	-4
M09-261089		-4	-2	-3	-1	-5
M09-305042		-3	-2	-4	-1	-7
M09-305119		0	-3	-4	5	-6
M09-305139		1	-1	-2	4	-3
M09-335008		-7	-9	-4	-4	-6
M09-335025		-7	-9	-6	-3	-5
M09-340038		-6	-6	-6	-4	-3
M09-340043		-7	-10	-4	-4	-5
M09-340063		-2	-4	0	1	-1
M09-343023		-5	-4	-5	0	-6
M09-343025		4	0	7	16	4
M10-274172		1	1	8	6	7
OAC 13-67C-ChCdn		-2	-3	-1	4	-2
OAC 13-85C-SCN		4	-1	3	3	-6
OAC 13-87C-SCN		-1	-1	-4	0	-7
ORC 3713N		4	3	8	9	4
ORC 7512N		1	-3	0	4	5
U13-608110		8	8	7	18	6
U13-904037		5	2	9	16	4
U13-905029		6	3	9	16	8
U13-910045		8	3	8	10	5
U13-911014		2	3	6	6	2
U13-912010		4	4	8	12	3
U13-912032		8	5	9	19	7
U13-913034		6	3	4	13	4
U13-916028		6	2	9	16	8
U13-918042		3	1	8	18	3
U13-926082		6	4	8	16	5
Date Planted		5/30	5/19	5/13	5/21	5/16
Days to Mature		108	117	111	128	133

PRELIMINARY TEST I, 2015

LODGING (score)

Strain	Mean 10 Tests	Boone County IA	Kanawha IA	West Lafayette IN	Ingham County MI	Lamber-ton MN	Waseca MN
MN1410 (I)	1.7	1.0	2.5	1.0	1.0	2.0	3.0
IA1022 (SCN)	2.0	3.5	2.3	1.0	1.0	2.5	3.0
Sheyenne (0)	1.4	1.0	1.8	1.0	1.0	1.5	2.0
MLG09-5431032	2.1	2.0	2.5	1.0	2.0	2.5	3.0
M08-608014	1.7	1.5	1.8	1.0	1.0	2.0	3.0
M08-608027	1.3	1.0	1.5	1.0	1.0	2.0	2.0
M08-608033	2.0	3.0	1.8	1.0	1.0	3.0	2.5
M09-223022	1.3	1.0	2.0	1.0	1.0	1.5	2.0
M09-226039	1.4	1.0	2.0	1.0	1.0	1.5	2.0
M09-240047	1.6	1.5	2.0	1.0	1.0	2.0	2.0
M09-240061	2.0	2.5	2.3	1.0	1.0	1.5	3.0
M09-241044	2.5	3.0	2.0	1.0	1.0	3.0	3.0
M09-251149	1.6	1.0	2.3	1.0	1.0	1.5	3.0
M09-252085	2.2	2.0	2.5	1.0	2.0	2.0	3.0
M09-261079	1.4	1.0	1.8	1.0	1.0	2.0	2.0
M09-261089	1.9	1.5	2.3	1.0	1.5	2.0	3.0
M09-305042	1.6	2.0	1.5	1.0	1.0	1.5	2.5
M09-305119	2.1	2.5	2.5	1.0	1.0	2.0	3.5
M09-305139	2.1	3.0	2.0	1.0	1.0	2.0	3.0
M09-335008	2.0	2.0	2.5	1.0	1.0	2.5	3.0
M09-335025	1.6	1.5	2.3	1.0	1.0	2.0	2.5
M09-340038	1.4	1.0	1.5	1.0	1.0	1.5	2.5
M09-340043	1.5	1.0	2.3	1.0	1.0	1.0	2.5
M09-340063	1.6	1.5	2.5	1.0	1.0	1.5	2.0
M09-343023	1.9	2.5	2.3	1.0	1.0	2.0	3.0
M09-343025	2.1	3.0	2.3	1.0	1.0	2.0	3.0
M10-274172	1.8	2.0	2.3	1.0	1.0	2.0	3.0
OAC 13-67C-ChCdn	1.5	1.5	2.0	1.0	1.0	2.0	2.5
OAC 13-85C-SCN	1.4	1.5	1.8	1.0	1.0	2.0	2.0
OAC 13-87C-SCN	1.5	1.0	2.0	1.0	1.0	2.0	3.0
ORC 3713N	1.6	2.0	2.0	1.0	1.5	2.0	3.0
ORC 7512N	1.8	2.0	1.8	1.0	1.5	2.0	2.5
U13-608110	1.4	1.0	2.3	1.0	1.0	1.5	2.0
U13-904037	1.8	2.0	2.3	1.3	1.0	2.5	2.5
U13-905029	1.6	1.5	2.0	1.0	1.0	2.0	2.5
U13-910045	1.3	1.0	2.0	1.0	1.0	1.5	2.0
U13-911014	1.9	2.5	2.0	1.0	1.0	2.5	3.0
U13-912010	1.4	1.5	2.0	1.0	1.0	1.5	2.0
U13-912032	2.1	3.5	2.3	1.0	1.5	2.5	3.0
U13-913034	1.8	2.0	2.5	1.0	1.5	2.5	3.0
U13-916028	1.6	2.0	2.0	1.0	1.0	2.0	3.0
U13-918042	1.5	2.0	2.0	1.0	1.0	1.5	2.0
U13-926082	1.6	2.5	1.8	1.0	1.0	1.5	3.0

PRELIMINARY TEST I, 2015

LODGING (score)

Strain	Cotes-field NE	Hooper NE	Worms NE	Ridge-town ONT	St Pauls ONT	Saint Hacinthe QUE
MN1410 (I)		1.0		2.0	1.5	2.0
IA1022 (SCN)		1.0		1.0	1.0	3.3
Sheyenne (0)		1.0		1.5	1.0	2.0
MLG09-5431032		1.0		2.0	2.1	3.3
M08-608014		1.0		1.5	1.5	2.7
M08-608027		1.0		1.0	1.0	1.3
M08-608033		1.5		1.0	1.5	3.3
M09-223022		1.0		1.5	1.3	1.0
M09-226039		1.0		2.5	1.2	1.0
M09-240047		1.0		3.0	1.1	1.7
M09-240061		2.0		2.5	1.1	2.7
M09-241044		1.8		4.0	2.5	4.0
M09-251149		1.0		2.0	1.4	1.3
M09-252085		2.0		2.0	2.1	3.0
M09-261079		1.0		1.0	1.4	1.3
M09-261089		1.0		3.0	1.1	3.0
M09-305042		1.0		2.0	1.0	2.0
M09-305119		1.5		3.0	1.4	2.7
M09-305139		1.0		3.5	1.6	2.7
M09-335008		1.0		2.5	1.4	3.0
M09-335025		1.0		2.5	1.0	1.3
M09-340038		1.0		1.0	1.3	2.0
M09-340043		1.0		1.0	1.4	2.3
M09-340063		1.0		1.0	1.0	3.0
M09-343023		1.0		2.0	1.4	2.7
M09-343025		1.8		2.0	1.5	3.0
M10-274172		1.5		2.0	1.0	2.3
OAC 13-67C-ChCdn		1.0		1.0	1.4	1.7
OAC 13-85C-SCN		1.5		1.5	1.0	1.0
OAC 13-87C-SCN		1.0		1.0	1.0	2.0
ORC 3713N		1.0		1.0	1.0	1.7
ORC 7512N		1.0		1.5	1.1	3.3
U13-608110		1.0		1.0	1.4	1.3
U13-904037		1.5		2.0	1.5	1.3
U13-905029		1.0		1.5	1.0	2.0
U13-910045		1.0		1.5	1.4	1.0
U13-911014		1.5		2.0	1.7	1.7
U13-912010		1.0		2.0	1.4	1.0
U13-912032		1.0		2.0	1.8	2.0
U13-913034		1.5		2.0	1.0	1.3
U13-916028		1.0		1.5	1.0	1.3
U13-918042		1.0		2.0	1.0	1.3
U13-926082		1.0		1.5	1.0	1.3

PRELIMINARY TEST I, 2015

PLANT HEIGHT (inches)

Strain	Mean 10 Tests	Boone County IA	Kanawha IA	West Lafayette IN	Ingham County MI	Lamber-ton MN	Waseca MN
MN1410 (I)	35	31	37	22	26	40	33
IA1022 (SCN)	34	32	34	24	21	40	36
Sheyenne (0)	30	28	29	16	18	36	32
MLG09-5431032	38	38	36	23	23	45	39
M08-608014	34	34	31	21	18	43	38
M08-608027	31	31	33	19	19	41	32
M08-608033	33	37	32	25	20	40	32
M09-223022	34	34	35	22	25	42	36
M09-226039	34	29	37	22	25	33	36
M09-240047	35	35	35	21	23	40	38
M09-240061	35	36	36	25	23	40	37
M09-241044	35	32	32	20	23	38	36
M09-251149	31	28	33	21	19	37	33
M09-252085	38	35	39	25	30	44	40
M09-261079	35	36	36	23	25	39	35
M09-261089	37	37	37	27	27	41	39
M09-305042	32	35	33	20	21	37	33
M09-305119	34	37	37	21	24	35	39
M09-305139	34	34	33	19	22	39	35
M09-335008	34	34	34	18	21	40	40
M09-335025	29	30	30	16	20	34	33
M09-340038	31	30	29	22	16	36	34
M09-340043	28	28	26	16	19	30	31
M09-340063	31	30	31	17	20	34	30
M09-343023	33	31	33	21	24	38	33
M09-343025	36	37	36	24	24	40	35
M10-274172	36	38	37	22	23	42	37
OAC 13-67C-ChCdn	34	33	34	21	22	41	37
OAC 13-85C-SCN	37	39	36	24	26	43	35
OAC 13-87C-SCN	34	35	30	24	20	40	38
ORC 3713N	38	42	39	20	26	42	40
ORC 7512N	30	27	30	17	22	33	30
U13-608110	36	39	37	24	28	36	40
U13-904037	40	40	42	30	29	41	43
U13-905029	36	37	38	23	27	40	43
U13-910045	36	37	37	26	27	39	40
U13-911014	38	37	37	25	29	43	43
U13-912010	35	39	35	21	22	41	40
U13-912032	37	33	39	29	27	42	41
U13-913034	35	35	36	23	27	41	40
U13-916028	37	39	35	26	25	40	42
U13-918042	37	37	39	21	25	39	41
U13-926082	37	37	38	25	25	40	41

PRELIMINARY TEST I, 2015

PLANT HEIGHT (inches)

Strain	Cotes-field NE	Hooper NE	Worms NE	Ridge-town ONT	St Pauls ONT	Saint Hacinthe QUE
MN1410 (I)		42		38	39	44
IA1022 (SCN)		37		37	39	41
Sheyenne (0)		33		35	35	41
MLG09-5431032		42		40	43	47
M08-608014		40		37	39	42
M08-608027		33		33	35	36
M08-608033		37		34	38	37
M09-223022		37		36	34	42
M09-226039		39		39	34	44
M09-240047		34		41	43	43
M09-240061		34		36	40	47
M09-241044		34		44	45	42
M09-251149		33		34	33	42
M09-252085		41		37	41	45
M09-261079		42		34	36	41
M09-261089		42		38	35	43
M09-305042		40		34	33	39
M09-305119		36		36	35	40
M09-305139		37		39	41	42
M09-335008		38		34	38	40
M09-335025		25		30	31	37
M09-340038		35		30	34	40
M09-340043		28		28	33	37
M09-340063		34		35	36	41
M09-343023		35		35	38	40
M09-343025		37		40	39	48
M10-274172		40		38	40	43
OAC 13-67C-ChCdn		39		39	34	43
OAC 13-85C-SCN		45		37	40	46
OAC 13-87C-SCN		41		37	32	42
ORC 3713N		42		33	44	48
ORC 7512N		27		34	36	41
U13-608110		37		33	40	43
U13-904037		45		37	45	49
U13-905029		39		34	40	43
U13-910045		38		32	37	42
U13-911014		42		34	41	44
U13-912010		39		34	40	43
U13-912032		39		40	39	45
U13-913034		40		37	32	44
U13-916028		40		36	41	42
U13-918042		40		37	45	44
U13-926082		40		34	42	44

PRELIMINARY TEST I, 2015

SEED SIZE (g/100)

Strain	Mean 10 Tests	Boone County IA	Kanawha IA	West Lafayette IN	Ingham County MI	Lamber-ton MN	Waseca MN
MN1410 (I)	17.7		16.9	16.0	18.3	18.0	16.6
IA1022 (SCN)	16.0		14.2	15.5	15.5	16.0	15.4
Sheyenne (0)	16.9		15.6	14.4	16.9	17.5	17.0
MLG09-5431032	15.3		13.1	13.3	15.5	17.0	14.0
M08-608014	17.5		15.6	15.9	16.9	17.1	15.4
M08-608027	18.3		16.0	17.2	17.2	19.6	15.1
M08-608033	18.5		17.1	16.8	17.4	18.4	16.3
M09-223022	19.4		15.4	18.7	20.3	19.8	18.7
M09-226039	15.9		14.8	15.7	15.6	15.7	14.8
M09-240047	16.5		14.5	15.0	16.6	17.4	16.3
M09-240061	18.8		17.5	16.7	16.5	19.4	18.4
M09-241044	15.5		13.5	15.1	16.3	14.8	14.0
M09-251149	17.6		16.7	14.9	18.3	18.4	17.8
M09-252085	18.8		18.2	16.3	18.5	19.6	19.0
M09-261079	17.9		17.2	15.2	16.4	18.5	18.5
M09-261089	20.0		17.3	17.3	21.6	21.1	20.4
M09-305042	17.3		15.9	16.0	16.2	17.2	16.4
M09-305119	15.6		13.4	14.1	15.4	15.4	14.9
M09-305139	16.9		15.2	17.1	18.2	16.5	12.7
M09-335008	17.1		15.8	15.5	17.4	16.0	16.5
M09-335025	16.8		14.1	14.7	16.8	16.3	15.9
M09-340038	16.0		15.0	14.5	16.0	15.4	15.4
M09-340043	17.1		15.7	15.1	16.5	17.4	16.3
M09-340063	16.4		15.4	14.2	15.7	17.4	16.0
M09-343023	17.1		15.9	15.6	17.4	16.4	16.6
M09-343025	15.3		13.2	13.7	15.6	16.2	14.6
M10-274172	21.2		20.0	19.1	20.9	21.0	19.5
OAC 13-67C-ChCdn	19.6		18.2	18.5	17.4	19.5	19.3
OAC 13-85C-SCN	18.0		16.4	16.3	18.6	17.7	17.2
OAC 13-87C-SCN	18.7		16.7	17.3	19.2	19.7	16.3
ORC 3713N	19.3		17.6	16.7	18.7	19.9	18.2
ORC 7512N	19.0		17.2	16.4	18.9	17.8	17.1
U13-608110	14.3		12.0	11.9	13.3	15.0	15.0
U13-904037	15.8		14.3	13.6	15.5	16.1	15.3
U13-905029	15.9		14.6	14.8	14.5	17.0	15.7
U13-910045	14.9		13.0	12.4	14.3	15.3	14.8
U13-911014	16.1		13.6	15.0	16.5	15.6	16.7
U13-912010	17.2		14.9	15.0	16.8	17.6	17.1
U13-912032	16.6		15.2	15.0	15.6	16.8	16.2
U13-913034	17.7		15.8	17.3	17.1	17.8	16.7
U13-916028	14.7		13.0	12.8	14.5	16.0	15.5
U13-918042	16.8		15.1	14.6	15.8	17.4	17.4
U13-926082	18.3		15.9	16.1	17.9	18.9	18.7

PRELIMINARY TEST I, 2015

SEED SIZE (g/100)

Strain	Cotes-field NE	Hooper NE	Worms NE	Ridge-town ONT	St Pauls ONT	Saint Hacinthe QUE
MN1410 (I)	19.0	18.0		18.7	17.1	18.2
IA1022 (SCN)	16.0	16.0		18.5	16.8	16.3
Sheyenne (0)	19.0	17.0		17.9	16.9	16.8
MLG09-5431032	16.0	16.0		16.8	15.8	16.0
M08-608014	18.0	18.0		20.2	18.8	19.2
M08-608027	18.0	19.0		22.5	18.5	20.3
M08-608033	19.0	18.0		22.1	19.4	20.1
M09-223022	20.0	19.0		21.0	20.8	20.0
M09-226039	17.0	15.0		17.5	16.9	16.2
M09-240047	17.0	16.0		18.8	15.9	17.6
M09-240061	20.0	19.0		22.2	17.2	20.7
M09-241044	16.0	16.0		17.3	16.7	15.8
M09-251149	17.0	18.0		19.3	17.1	18.3
M09-252085	18.0	19.0		21.0	18.3	19.7
M09-261079	18.0	18.0		19.5	18.9	19.0
M09-261089	20.0	19.0		22.9	20.2	20.4
M09-305042	19.0	17.0		18.7	17.7	19.2
M09-305119	16.0	16.0		18.8	15.7	16.4
M09-305139	18.0	16.0		20.2	16.5	18.2
M09-335008	17.0	18.0		19.7	16.9	18.0
M09-335025	19.0	17.0		18.0	17.7	18.9
M09-340038	18.0	16.0		16.7	16.1	17.0
M09-340043	18.0	17.0		18.7	18.1	18.6
M09-340063	16.0	17.0		18.6	16.0	17.9
M09-343023	18.0	17.0		18.4	18.7	17.1
M09-343025	15.0	16.0		17.1	15.8	15.8
M10-274172	20.0	21.0		26.6	20.0	23.7
OAC 13-67C-ChCdn	19.0	19.0		22.7	19.8	22.6
OAC 13-85C-SCN	18.0	17.0		21.6	18.9	18.1
OAC 13-87C-SCN	18.0	19.0		21.9	20.5	18.1
ORC 3713N	20.0	20.0		21.3	18.7	21.6
ORC 7512N	20.0	19.0		22.9	20.4	20.3
U13-608110	15.0	15.0		15.5	14.8	15.5
U13-904037	16.0	17.0		17.1	16.6	16.5
U13-905029	17.0	16.0		16.9	16.1	16.6
U13-910045	15.0	16.0		17.8	15.3	15.6
U13-911014	17.0	17.0		16.8	16.4	16.5
U13-912010	18.0	18.0		19.1	17.8	17.5
U13-912032	18.0	17.0		19.0	16.2	17.0
U13-913034	19.0	19.0		18.8	17.8	18.1
U13-916028	14.0	15.0		16.5	14.2	15.4
U13-918042	18.0	17.0		19.1	16.4	17.5
U13-926082	20.0	19.0		19.4	18.4	18.9

PRELIMINARY TEST I, 2015

SEED QUALITY (score)

Strain	Mean 9 Tests	Boone County IA	Kanawha IA	West Lafayette IN	Ingham County MI	Lamber-ton MN	Waseca MN
MN1410 (I)	1.7		1.0	1.0		2.0	2.0
IA1022 (SCN)	1.9		1.0	1.0		2.0	2.0
Sheyenne (0)	2.2		2.0	1.5		3.0	2.0
MLG09-5431032	1.9		2.0	1.5		2.0	2.0
M08-608014	2.0		2.0	1.5		2.0	2.0
M08-608027	1.8		1.0	1.0		2.0	2.0
M08-608033	1.9		1.0	1.5		2.0	2.0
M09-223022	1.9		1.0	1.5		2.0	2.0
M09-226039	1.9		1.0	1.5		2.0	2.0
M09-240047	1.5		1.0	1.0		2.0	1.0
M09-240061	1.7		1.0	1.0		2.0	2.0
M09-241044	1.9		1.0	1.0		2.0	2.0
M09-251149	1.9		1.0	1.0		2.0	3.0
M09-252085	1.7		1.0	1.0		2.0	2.0
M09-261079	1.8		2.0	1.0		2.0	1.0
M09-261089	1.6		1.0	1.0		2.0	1.0
M09-305042	2.0		2.0	1.0		2.0	2.0
M09-305119	2.1		2.0	1.5		2.0	2.0
M09-305139	2.1		2.0	1.5		2.0	2.0
M09-335008	2.1		2.0	1.5		2.0	2.0
M09-335025	1.9		2.0	1.5		2.0	2.0
M09-340038	1.6		2.0	1.0		2.0	1.0
M09-340043	1.9		2.0	1.0		2.0	2.0
M09-340063	2.0		2.0	1.5		2.0	2.0
M09-343023	1.9		1.0	1.0		2.0	2.0
M09-343025	1.7		1.0	1.0		2.0	2.0
M10-274172	1.6		1.0	1.0		2.0	2.0
OAC 13-67C-ChCdn	1.7		1.0	1.0		2.0	1.0
OAC 13-85C-SCN	1.9		1.0	1.5		2.0	2.0
OAC 13-87C-SCN	1.9		2.0	1.5		2.0	1.0
ORC 3713N	1.7		1.0	1.5		2.0	2.0
ORC 7512N	1.8		1.0	1.5		2.0	2.0
U13-608110	1.8		1.0	1.0		1.0	2.0
U13-904037	1.8		1.0	1.0		2.0	2.0
U13-905029	1.6		1.0	1.0		1.0	2.0
U13-910045	1.7		1.0	1.0		2.0	2.0
U13-911014	1.7		1.0	1.0		2.0	2.0
U13-912010	1.8		1.0	1.0		2.0	1.0
U13-912032	1.8		1.0	1.0		2.0	2.0
U13-913034	1.7		1.0	1.0		2.0	1.0
U13-916028	1.7		1.0	1.0		2.0	2.0
U13-918042	1.9		1.0	1.0		2.0	2.0
U13-926082	1.7		2.0	1.0		2.0	1.0

PRELIMINARY TEST I, 2015

SEED QUALITY (score)

Strain	Cotes-field NE	Hooper NE	Worms NE	Ridge-town ONT	St Pauls ONT	Saint Hacinthe QUE
MN1410 (I)	2.0	2.0		1.0	1.5	2.7
IA1022 (SCN)	2.0	2.0		1.5	2.5	3.0
Sheyenne (0)	3.0	2.0		1.5	2.0	3.0
MLG09-5431032	2.0	2.0		1.0	2.0	2.3
M08-608014	2.0	2.0		1.0	1.5	4.0
M08-608027	2.0	2.0		1.0	1.5	3.3
M08-608033	2.0	2.0		1.0	1.5	3.7
M09-223022	2.0	2.0		2.0	1.5	3.0
M09-226039	2.0	2.0		2.0	1.5	3.0
M09-240047	2.0	1.0		1.0	1.5	3.0
M09-240061	2.0	2.0		1.0	1.5	3.0
M09-241044	3.0	2.0		1.5	1.5	3.0
M09-251149	3.0	2.0		1.0	1.5	2.7
M09-252085	2.0	2.0		1.0	1.5	3.0
M09-261079	2.0	2.0		1.5	1.5	3.0
M09-261089	2.0	2.0		1.0	1.5	3.0
M09-305042	3.0	2.0		1.5	1.5	3.0
M09-305119	3.0	2.0		1.5	2.0	3.3
M09-305139	3.0	2.0		2.0	1.5	2.7
M09-335008	3.0	2.0		1.5	1.5	3.0
M09-335025	2.0	2.0		1.5	1.5	3.0
M09-340038	2.0	2.0		1.0	1.5	2.0
M09-340043	3.0	2.0		1.0	1.5	3.0
M09-340063	3.0	2.0		1.0	1.5	3.0
M09-343023	3.0	2.0		1.0	1.5	3.3
M09-343025	2.0	2.0		1.5	1.5	2.7
M10-274172	2.0	2.0		1.5	1.0	2.0
OAC 13-67C-ChCdn	2.0	2.0		1.5	1.5	3.0
OAC 13-85C-SCN	3.0	2.0		1.5	1.5	3.0
OAC 13-87C-SCN	2.0	2.0		2.0	1.5	3.0
ORC 3713N	2.0	2.0		1.0	1.5	2.3
ORC 7512N	2.0	2.0		2.0	1.5	2.3
U13-608110	2.0	2.0		1.5	2.0	3.7
U13-904037	2.0	2.0		1.5	2.0	3.0
U13-905029	2.0	2.0		1.0	1.5	3.0
U13-910045	2.0	2.0		1.0	1.5	3.0
U13-911014	2.0	2.0		1.0	1.5	3.0
U13-912010	2.0	2.0		1.5	2.0	3.7
U13-912032	2.0	2.0		1.5	2.0	2.7
U13-913034	2.0	2.0		2.0	2.0	2.7
U13-916028	2.0	1.0		1.5	1.5	3.0
U13-918042	2.0	2.0		2.0	2.0	3.3
U13-926082	1.0	2.0		2.0	2.0	2.7

PRELIMINARY TEST I, 2015

PROTEIN (%)

Strain	Mean 8 Tests	West Lafayette IN	Lamber-ton MN	Waseca MN	Cotes-field NE	Hooper NE	Ridge-town ONT	St Pauls ONT	Saint Hacinthe QUE
MN1410 (I)	38.0	35.1	36.1	35.1	35.0	35.6	43.8	42.6	40.3
IA1022 (SCN)	34.4	33.7	32.3	31.2	31.7	31.9	39.6	38.9	35.9
Sheyenne (0)	36.8	34.6	33.3	35.2	34.0	34.8	42.2	42.0	38.3
MLG09-5431032	36.6	34.5	35.3	33.9	32.7	34.1	41.9	42.2	38.3
M08-608014	36.3	34.7	33.1	33.3	33.1	34.3	41.7	41.6	38.5
M08-608027	38.5	36.1	36.5	34.6	34.9	36.5	44.5	42.9	42.0
M08-608033	39.0	36.7	36.6	35.7	35.2	36.9	45.1	44.2	41.4
M09-223022	36.4	35.2	31.2	33.3	33.9	34.1	42.3	42.2	39.0
M09-226039	37.0	35.0	32.7	33.4	34.2	34.7	43.9	43.0	39.4
M09-240047	36.3	34.1	32.7	33.1	33.1	33.5	42.9	41.0	39.9
M09-240061	36.0	33.6	33.5	32.7	32.6	34.3	42.0	40.3	38.7
M09-241044	35.7	34.1	32.8	32.7	32.0	33.8	41.7	40.2	38.0
M09-251149	37.3	35.1	34.4	34.3	33.0	34.7	43.3	42.4	41.0
M09-252085	36.4	34.1	33.1	33.9	33.2	34.0	42.4	41.5	39.4
M09-261079	37.3	34.6	32.5	35.8	33.4	35.0	43.3	43.0	41.0
M09-261089	38.3	35.9	36.4	35.6	34.5	35.3	45.4	42.6	40.8
M09-305042	34.6	32.7	32.2	31.1	33.4	32.5	40.4	38.1	36.2
M09-305119	34.4	31.5	31.7	33.6	31.6	31.9	39.6	38.8	36.8
M09-305139	34.9	33.2	30.6	32.2	32.3	32.7	40.9	39.8	37.2
M09-335008	38.1	35.8	37.3	35.5	34.5	35.5	43.3	42.4	40.3
M09-335025	38.3	36.0	35.6	36.6	34.6	35.3	43.8	42.8	41.6
M09-340038	37.1	35.3	33.6	34.0	34.5	34.6	42.8	42.3	39.6
M09-340043	37.9	35.7	35.5	35.7	34.9	35.8	43.5	42.6	39.7
M09-340063	37.9	36.8	35.6	34.4	35.1	35.8	43.3	43.0	39.6
M09-343023	38.5	36.5	35.4	35.2	34.9	35.7	45.7	43.9	41.0
M09-343025	37.3	35.6	34.4	33.8	33.9	35.4	43.4	42.2	39.5
M10-274172	40.8	38.0	40.4	36.9	36.0	37.4	48.6	46.2	42.9
OAC 13-67C-ChCdn	38.7	36.7	37.1	34.9	34.8	35.4	45.6	43.1	42.3
OAC 13-85C-SCN	35.3	33.3	31.9	31.3	33.1	32.5	41.3	40.3	38.4
OAC 13-87C-SCN	35.8	34.0	32.2	33.1	32.8	33.5	41.2	40.5	38.8
ORC 3713N	36.0	34.3	34.1	34.8	33.1	33.0	40.5	40.1	38.3
ORC 7512N	38.9	36.5	36.3	35.6	35.8	36.8	44.8	43.5	41.5
U13-608110	35.7	33.4	33.7	34.1	32.5	33.3	41.4	40.8	36.5
U13-904037	35.6	33.3	32.8	34.1	31.7	33.6	41.1	41.0	37.3
U13-905029	36.2	33.5	34.8	33.0	33.1	34.1	42.2	40.9	38.3
U13-910045	35.2	33.2	32.7	32.8	31.8	33.6	40.6	39.9	36.9
U13-911014	36.1	33.9	33.5	33.4	33.7	34.3	41.4	41.4	37.2
U13-912010	35.8	33.5	34.1	32.7	32.7	33.9	40.8	40.1	38.4
U13-912032	36.3	33.3	35.9	35.6	32.1	34.4	41.5	39.7	37.6
U13-913034	36.3	33.9	33.9	33.7	33.3	34.3	41.3	41.2	38.8
U13-916028	35.7	33.3	33.6	33.6	31.8	33.5	41.3	41.1	37.3
U13-918042	36.2	33.5	35.1	33.3	32.4	33.9	42.6	39.9	39.2
U13-926082	35.7	34.5	32.5	32.8	32.9	34.6	41.0	40.1	37.5

PRELIMINARY TEST I, 2015

OIL (%)

Strain	Mean 8 Tests	West Lafayette IN	Lamber-ton MN	Waseca MN	Cotes-field NE	Hooper NE	Ridge-town ONT	St Pauls ONT	Saint Hacinthe QUE
MN1410 (I)	20.1	19.7	19.4	19.4	19.4	19.4	21.1	20.5	21.8
IA1022 (SCN)	21.2	20.8	19.9	19.5	20.8	20.9	23.1	21.5	23.1
Sheyenne (0)	19.8	19.7	19.5	18.1	19.5	19.3	20.7	19.9	21.5
MLG09-5431032	20.3	20.3	19.5	18.0	20.3	20.0	21.7	20.8	22.0
M08-608014	20.5	20.3	19.0	19.2	20.4	20.2	21.8	20.9	22.2
M08-608027	19.5	19.4	19.7	17.5	19.7	19.1	20.2	20.1	20.5
M08-608033	19.3	19.4	17.7	17.7	19.5	18.8	20.4	20.0	20.6
M09-223022	19.6	19.5	18.9	17.4	19.6	19.2	20.7	20.1	21.3
M09-226039	19.8	19.6	19.9	17.7	19.5	19.3	20.5	20.1	22.0
M09-240047	19.8	19.7	19.6	17.7	19.8	19.7	20.6	20.5	21.1
M09-240061	20.8	20.8	20.7	18.6	20.5	20.2	22.0	21.4	22.5
M09-241044	19.9	20.0	19.4	17.7	19.9	19.2	21.2	20.8	21.4
M09-251149	20.4	20.2	19.8	17.8	20.8	20.2	21.4	20.8	22.0
M09-252085	20.5	20.6	19.6	18.6	20.4	20.3	21.6	20.9	21.8
M09-261079	20.2	19.9	19.1	19.4	20.3	19.5	21.4	20.5	21.8
M09-261089	19.8	19.5	19.4	17.1	19.8	19.3	20.8	20.9	21.8
M09-305042	20.9	20.7	20.4	19.0	20.2	20.4	22.0	21.7	22.7
M09-305119	21.5	21.2	20.8	20.1	21.1	20.9	22.7	21.9	23.2
M09-305139	21.4	21.1	21.0	19.3	20.9	20.9	23.1	21.8	23.1
M09-335008	19.4	19.1	19.0	17.9	19.4	18.9	20.2	19.7	21.4
M09-335025	19.7	19.1	19.4	18.7	19.6	19.5	19.9	20.1	21.1
M09-340038	20.2	20.0	19.5	18.6	20.0	19.7	21.3	20.6	22.3
M09-340043	19.9	19.8	19.4	18.0	19.3	19.2	20.7	20.7	22.2
M09-340063	19.5	18.8	18.3	18.6	19.0	19.0	20.5	20.1	21.7
M09-343023	19.7	19.3	19.3	17.6	19.6	19.3	20.3	20.1	22.0
M09-343025	20.0	19.9	19.0	18.3	19.8	19.3	21.2	20.5	22.4
M10-274172	18.8	18.9	18.1	17.1	19.1	18.7	19.0	19.2	20.6
OAC 13-67C-ChCdn	19.6	19.3	18.6	17.1	19.5	19.4	20.8	20.5	21.4
OAC 13-85C-SCN	20.9	20.9	21.0	18.8	20.3	20.7	22.0	21.4	22.2
OAC 13-87C-SCN	20.9	20.6	20.2	19.3	20.6	20.4	22.5	21.7	22.2
ORC 3713N	21.0	20.9	19.8	18.1	20.6	21.0	23.4	21.3	22.7
ORC 7512N	18.8	18.7	18.2	17.0	18.8	18.7	20.1	19.5	19.6
U13-608110	20.3	20.4	19.6	17.2	19.9	20.1	21.7	21.2	22.2
U13-904037	19.9	20.1	18.3	17.5	20.2	19.8	21.2	20.5	21.7
U13-905029	20.3	20.6	19.6	17.7	19.9	19.9	21.6	21.0	21.8
U13-910045	20.0	19.9	18.4	18.5	19.8	19.4	21.7	20.9	21.7
U13-911014	20.6	20.7	19.5	18.3	20.3	20.1	22.4	21.1	22.4
U13-912010	20.2	20.7	18.3	17.6	20.0	20.2	22.3	20.6	21.6
U13-912032	20.8	20.8	19.4	19.3	20.7	20.2	22.2	21.3	22.5
U13-913034	20.2	20.4	19.2	18.2	20.0	19.7	22.0	20.4	21.8
U13-916028	20.1	20.1	19.3	18.0	19.8	19.5	21.5	20.4	21.9
U13-918042	20.2	20.8	19.4	17.2	20.2	20.0	21.3	21.0	22.1
U13-926082	20.4	20.3	18.2	18.4	20.3	19.8	22.5	21.2	22.3

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UNIFORM TEST II, 2015

Ent.	Strain	Parentage	Seed Source	Previous Testing	Gen. Comp.	Unique Traits
1	IA2102 (II)	A04-545045 x AgriPro 98180-A01-0613	Fehr	4	F4	
2.	IA1022 (SCN)	Dairyland 98822 x A00-711024	Fehr	7	F5	SCN
3.	IA3024	A97-553017 x Pioneer YB33A99	Fehr	8		1% Linolenic
4.	LD02-4485 (SCN)	M90-184111 x IA3010	Diers	4	F5	SCN
5.	AR13-232001	AR05-250002 x Syngenta 04KL108370	Cianzio	PTIIA	F5	BSR
6.	E12020	E05053 x E00003	Wang	PTIIA	F5	
7.	E12034	IA3023 x E00003	Wang	PTIIA	F5	
8.	E12042	IA3023 x E00003	Wang	PTIIA	F5	
9.	E12084	LG03-3020 x LG03-3780	Wang	PTIIA	F5	
10.	LD10-10198	LD05-3230 x LD00-3309	Diers	1	F4	SCN
11.	LD10-14323	LD01-7323(5) x PR33	Diers	SCNPII	F5	SCN, Rpp3
12.	LD10-5213a	LD02-4485(5) x (Ina x PI 200538)	Diers	1	F5	Rag2, SCN
13.	LD11-643	IA3023 x Thompson SeedsT0499	Diers	PTIIB	F4	
14.	U11-346046	LG04-6000 x OAC05-17	Graef	PTIIB	F5	Excellent Rps resistance.
15.	U11-374036	U03-100612 x LD02-7222P	Graef	PTIIB	F5	Sus. to Rps.
16.	U11-376008	U02-242055 x LD04-13265	Graef	PTIIB	F5	Sus. to Rps.
17.	U11-396034	U03-300134 x LD04-11056	Graef	PTIIB	F5	Rps1k
18.	U11-444079	U03-300134 x LD00-3309	Graef	PTIIB	F5	Hetero. for Rps Race 25; purify.
19.	U11-610109	LD02-4485 x U03-100612	Graef	1	F6	Hetero. for Rps Race 25
20.	U11-614119	U02-242055 x LD04-13265	Graef	1	F6	Excellent Rps resistance.
21.	U11-619102	U03-300134 x LD00-3309	Graef	1	F6	Hetero. for Rps Race 25.
22.	U11-907098	U03-100612 x LD02- 7222P	Graef	UTI	F6	
23.	U11-911079	LD02-4485 x U03-300134	Graef	UTI	F6	SCN HR, R. Excellent Rps resis.
24.	U11-918019	LD02-4485 x U03-100612	Graef	UTI	F6	
25.	U11-920017	HS5-3417 x LD02- 4485	Graef	1	F6	Excellent Rps resistance.
26.	U12-905062	MN1410 x K07-1544	Graef	PTI	F4	

UNIFORM TEST II, 2015

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	IDC Score Lamberton	IDC Score Waseca	Shattering Score Manhattan	SDS Data Ames DX Rank
IA2102 (II)	WGTIYYI	4.0	4.0	2.0	10.6
IA1022 (SCN)	PGTSYYI	3.0	3.0	1.0	8.4
IA3024	PGTSYDibI	3.5	3.5	1.0	12.5
LD02-4485 (SCN)	PGTDYBfI	2.5	2.5	1.0	6.2
AR13-232001	PTBDYBrI	3.0	3.0	1.0	7.5
E12020	PTBSYLbrI	3.1	3.1	1.0	17.5
E12034	PTTSYBI	2.3	2.3	1.0	13.9
E12042	WGTSYDibI	2.5	2.5	1.0	10.0
E12084	WTBSYBI	2.6	2.6	1.0	8.4
LD10-10198	PGTSYGI	3.0	3.0	1.0	35.6
LD10-14323	PGTIYYI	4.0	4.0	1.0	4.6
LD10-5213a	PGTDYLbfI	2.0	2.0	1.0	1.3
LD11-643	PGTSYLbfI	3.3	3.3	1.0	27.2
U11-346046	WTTDYBI	3.1	3.1	1.0	14.2
U11-374036	PTBIYBI	4.3	4.3	1.0	15.6
U11-376008	PT+GTDYDib+BI	3.3	3.3	1.0	26.7
U11-396034	PTBDYBI	3.3	3.3	1.0	8.3
U11-444079	P+WGTDYDib+BI	3.3	3.3	1.0	21.7
U11-610109	PGTDYLbfI	3.9	3.9	1.0	5.9
U11-614119	P+WT+GTDYBI	4.3	4.3	1.0	9.2
U11-619102	P+WTTDYBI	3.0	3.0	2.0	21.7
U11-907098	PGTIYDibI	2.8	2.8	3.0	8.9
U11-911079	PGTDYDibI	1.8	1.8	1.0	1.8
U11-918019	PGTDYBfI	2.0	2.0	2.0	12.0
U11-920017	PTBDYBrI	1.8	1.8	1.0	19.2
U12-905062	WGTSYBf+DibI	1.8	1.8	2.0	24.5

UNIFORM TEST II, 2015

REGIONAL SUMMARY

No. of Tests Strain	Yield 14 bu/a	Rank 14 No.	Maturity 14 Date	Lodging 13 Score	Plant Height 14 In.	Seed Size 13 g/100	Seed Quality 12 Score	Composition Protein 7 %	 Oil 7 %
IA2102 (II)	66.8	19	9/22	1.8	32	15.8	1.6	35.4	19.6
IA1022 (SCN)	61.5	26	-3.8	1.6	29	15.2	1.5	33.6	21.4
IA3024	67.0	18	3.7	1.4	31	16.0	1.5	34.0	20.5
LD02-4485 (SCN)	67.5	15	1.6	1.5	31	14.5	1.6	33.3	20.3
AR13-232001	68.8	5	1.5	1.9	37	16.5	1.6	34.0	20.4
E12020	67.8	12	4.1	1.5	33	15.3	1.3	28.8	20.3
E12034	67.8	12	7.0	1.4	33	15.7	1.3	34.3	20.2
E12042	67.8	12	3.6	1.9	34	14.7	1.3	34.2	20.4
E12084	64.1	24	2.7	1.6	34	14.1	1.4	35.5	19.3
LD10-10198	69.3	3	2.4	1.2	32	13.9	1.4	34.9	19.6
LD10-14323	65.6	22	3.6	1.8	32	16.0	1.3	35.7	19.7
LD10-5213a	68.5	7	4.4	1.3	31	15.9	1.3	33.7	20.7
LD11-643	68.3	9	2.1	1.2	31	16.9	1.5	33.2	21.1
U11-346046	67.9	10	6.4	1.5	33	16.4	1.4	35.8	19.4
U11-374036	67.1	17	5.5	1.3	31	14.8	1.4	34.0	20.2
U11-376008	67.4	16	4.1	1.2	30	16.4	1.3	34.7	20.5
U11-396034	69.3	3	6.2	1.4	34	15.2	1.4	34.7	20.0
U11-444079	65.9	21	2.5	1.2	31	14.4	1.4	34.2	20.0
U11-610109	68.6	6	3.0	1.4	34	15.4	1.3	34.3	20.6
U11-614119	69.9	2	4.4	1.2	31	16.1	1.4	34.2	20.5
U11-619102	67.9	10	3.3	1.2	31	14.5	1.4	34.1	20.0
U11-907098	66.1	20	-2.1	1.3	30	15.1	1.5	34.6	20.0
U11-911079	68.5	7	0.4	1.2	32	13.0	1.5	34.1	20.0
U11-918019	63.8	25	-0.4	1.2	30	14.8	1.5	34.6	20.0
U11-920017	70.0	1	3.4	1.4	31	16.6	1.7	33.2	20.7
U12-905062	65.2	23	1.0	1.3	32	15.5	1.5	35.2	20.2
Mean	66.2			1.4	33.0	16.0	1.6		
C.V. (%)	20.3			46.5	20.1	9.4	35.2		
L.S.D. (5%)	6.2			0.4	3.4	1.0	0.5		

125.6 Days After Planting

UNIFORM TEST II, 2015

2014-2015 2-YEAR MEAN

No. of Tests Strain	Yield 27 bu/a	Rank 27 No.	Maturity 28 Date	Lodging 27 Score	Plant Height 27 In.	Seed Size 23 g/100	Seed Quality 22 Score	Composition Protein 17 %	 Oil 17 %
IA2102 (II)	68.0	7	9/25	2.1	33	16.4	1.7	35.4	19.1
IA1022 (SCN)	61.9	12	-4.5	1.6	29	16.0	1.5	33.9	20.7
IA3024	67.9	8	3.3	1.5	33	16.8	1.4	34.1	19.8
LD02-4485 (SCN)	66.8	9	0.4	1.7	32	15.0	1.7	33.4	19.8
LD10-10198	69.7	3	2.4	1.2	33	14.5	1.5	35.1	18.8
LD10-5213a	69.5	4	2.6	1.5	31	16.6	1.5	34.0	20.0
U11-610109	69.1	5	1.7	1.6	34	16.0	1.4	34.4	20.0
U11-614119	71.3	2	3.4	1.3	32	16.9	1.4	34.4	19.6
U11-619102	68.8	6	2.5	1.3	32	15.3	1.4	34.1	19.3
U11-907098	65.9	10	1.6	1.4	30	16.3	1.4	34.3	19.3
U11-918019	63.9	11	2.3	1.3	30	15.9	1.7	34.0	19.4
U11-920017	71.4	1	2.0	1.5	31	17.5	1.7	33.5	20.0

125.7 Days After Planting

UNIFORM TEST II, 2015

YIELD (bu/a)

Strain	Mean 14 Tests	Ames IA	Boone County IA	Dekalb IL	Urbana IL	Wanatah IN	West Lafayette IN*
IA2102 (II)	66.8	44.5	69.1	69.0	63.6	62.7	76.9
IA1022 (SCN)	61.5	36.4	57.4	53.1	55.9	52.7	35.5
IA3024	67.0	54.8	58.4	54.9	63.1	59.8	63.7
LD02-4485 (SCN)	67.5	56.6	63.6	61.8	69.1	65.8	53.6
AR13-232001	68.8	48.5	66.0	56.4	73.1	66.8	49.2
E12020	67.8	49.8	66.2	55.8	71.5	58.7	54.9
E12034	67.8	53.7	66.5	52.1	69.1	60.5	39.0
E12042	67.8	47.8	62.6	59.5	67.7	54.3	45.8
E12084	64.1	50.4	58.6	59.0	66.6	65.9	55.7
LD10-10198	69.3	47.8	66.1	75.2	68.7	68.4	47.5
LD10-14323	65.6	51.7	57.9	68.9	64.2	63.3	51.1
LD10-5213a	68.5	57.3	66.7	73.1	73.3	68.0	52.1
LD11-643	68.3	47.0	57.1	63.3	67.7	58.9	53.6
U11-346046	67.9	50.1	58.4	52.6	66.0	58.9	51.2
U11-374036	67.1	51.5	60.7	60.9	58.9	65.2	46.7
U11-376008	67.4	49.2	67.2	56.6	66.6	59.2	53.9
U11-396034	69.3	56.1	59.1	64.0	69.9	59.0	64.8
U11-444079	65.9	51.9	61.5	47.9	61.7	62.0	54.3
U11-610109	68.6	48.2	64.6	66.4	66.8	62.2	56.2
U11-614119	69.9	58.7	65.2	66.1	72.6	65.1	59.7
U11-619102	67.9	48.7	63.6	56.4	61.4	64.4	61.9
U11-907098	66.1	51.8	61.1	60.4	58.0	60.6	54.2
U11-911079	68.5	57.1	61.8	69.7	69.0	65.0	58.1
U11-918019	63.8	45.8	68.2	59.9	63.9	57.3	41.0
U11-920017	70.0	45.0	65.6	63.8	69.3	56.3	52.1
U12-905062	65.2	49.3	62.1	49.8	59.5	60.7	44.6
Location Mean		50.0	63.1	60.1	66.7	61.4	53.6
C.V. (%)		11.1	6.4	8.4	6.5	9.2	17.9
L.S.D. (5%)		11.6	8.2	8.7	7.3	7.9	8.3
Row Sp. (In.)		30	30	30	30	30	30
Rows/Plot		4	4	4	4	4	4
Reps		2	2	2	2	3	3

*Data not included in the mean.

UNIFORM TEST II, 2015

YIELD (bu/a)

Strain	Ingham County MI*	Lenawee County MI	Lamberton MN	Waseca MN	Cotes-field NE
IA2102 (II)	62.3	71.1	50.5	48.8	84.5
IA1022 (SCN)	36.0	57.2	64.5	57.5	88.0
IA3024	54.8	72.5	52.4	59.5	96.1
LD02-4485 (SCN)	58.8	64.2	51.8	59.6	90.0
AR13-232001	50.8	67.0	56.6	56.9	103.4
E12020	53.7	71.5	52.8	57.4	94.7
E12034	45.4	72.1	55.5	58.6	82.3
E12042	57.9	69.3	60.2	47.6	104.2
E12084	52.7	70.9	55.3	47.1	92.6
LD10-10198	54.0	67.5	55.9	52.3	91.2
LD10-14323	58.9	69.1	54.2	55.6	87.1
LD10-5213a	48.4	66.9	49.8	62.2	94.5
LD11-643	54.8	72.1	56.2	53.5	101.5
U11-346046	56.7	69.7	46.7	43.8	93.8
U11-374036	41.8	72.4	62.8	59.9	90.8
U11-376008	46.0	62.6	60.6	61.4	94.5
U11-396034	60.7	72.4	48.4	46.7	95.5
U11-444079	47.3	69.9	51.9	58.6	91.3
U11-610109	60.9	74.0	47.7	57.0	91.3
U11-614119	52.1	71.8	61.3	61.5	89.6
U11-619102	47.1	61.6	55.0	58.3	95.9
U11-907098	52.4	67.2	58.3	57.0	91.3
U11-911079	56.4	63.5	55.4	70.9	88.4
U11-918019	59.0	67.2	49.2	55.9	74.1
U11-920017	54.7	62.5	56.7	68.2	87.9
U12-905062	41.8	62.8	61.4	60.0	94.5
Location Mean	53.9	69.2	55.4	57.5	91.3
C.V. (%)	16.4	7.1	13.7	13.3	5.3
L.S.D. (5%)	21.4	12.1	11.9	12.0	12.0
Row Sp. (In.)	15	15	30	30	30
Rows/Plot	4	6	4	4	4
Reps	2	2	3	3	2

*Data not included in the mean.

UNIFORM TEST II, 2015

YIELD (bu/a)

Strain	Hooper NE	Worms NE	Hoytville OH	Wooster OH	Chatham ONT
IA2102 (II)	90.8	74.1	64.9	72.4	69.9
IA1022 (SCN)	72.4	73.2	64.0	66.7	61.8
IA3024	76.4	80.5	70.2	78.8	60.7
LD02-4485 (SCN)	79.5	76.9	68.6	74.7	63.0
AR13-232001	83.8	73.1	66.0	69.4	76.5
E12020	80.8	85.8	66.7	76.5	60.8
E12034	85.4	76.4	61.6	79.4	76.7
E12042	74.2	83.1	70.0	71.9	77.2
E12084	70.8	66.2	64.6	67.0	62.9
LD10-10198	85.6	79.4	67.0	73.0	72.5
LD10-14323	65.7	74.3	69.8	65.8	70.6
LD10-5213a	85.7	59.8	64.9	65.9	70.5
LD11-643	83.6	77.7	74.3	72.9	70.7
U11-346046	81.0	93.1	81.8	79.1	75.9
U11-374036	81.0	77.9	58.5	78.0	61.6
U11-376008	72.2	85.1	62.0	75.4	71.7
U11-396034	80.3	87.3	77.5	77.7	76.1
U11-444079	72.9	80.3	70.1	73.1	69.6
U11-610109	82.3	86.6	73.4	69.3	70.4
U11-614119	66.1	88.0	69.5	75.5	68.4
U11-619102	87.3	85.4	63.7	76.6	72.2
U11-907098	78.6	86.7	60.9	69.0	64.9
U11-911079	79.9	78.6	65.1	68.0	66.4
U11-918019	80.0	72.8	66.3	65.2	67.9
U11-920017	85.4	88.1	76.3	82.1	73.0
U12-905062	65.6	80.9	67.1	69.9	69.2
Location Mean	80.2	79.9	66.8	72.9	70.2
C.V. (%)	9.7	9.9	11.7	10.6	13.3
L.S.D. (5%)	19.4	20.5	13.0	12.6	7.4
Row Sp. (In.)	30	30	7.5	7.5	17
Rows/Plot	4	4	8	8	4
Reps	2	2	3	3	3

UNIFORM TEST II, 2015

YIELD RANK

Strain	Yield Rank	Ames IA	Boone County IA	Dekalb IL	Urbana IL	Wanatah IN	West Lafayette IN
IA2102 (II)	19	25	1	4	19	11	1
IA1022 (SCN)	26	26	25	22	26	26	26
IA3024	18	6	23	21	20	17	3
LD02-4485 (SCN)	15	4	12	11	7	5	14
AR13-232001	5	18	8	18	2	3	19
E12020	12	14	6	20	4	22	9
E12034	12	7	5	24	7	16	25
E12042	12	21	14	15	11	25	22
E12084	24	12	21	16	14	4	8
LD10-10198	3	20	7	1	10	1	20
LD10-14323	22	10	24	5	17	10	18
LD10-5213a	7	2	4	2	1	2	16
LD11-643	9	22	26	10	11	20	13
U11-346046	10	13	22	23	16	20	17
U11-374036	17	11	19	12	24	6	21
U11-376008	16	16	3	17	14	18	12
U11-396034	3	5	20	8	5	19	2
U11-444079	21	8	17	26	21	13	10
U11-610109	6	19	11	6	13	12	7
U11-614119	2	1	10	7	3	7	5
U11-619102	10	17	13	18	22	9	4
U11-907098	20	9	18	13	25	15	11
U11-911079	7	3	16	3	9	8	6
U11-918019	25	23	2	14	18	23	24
U11-920017	1	24	9	9	6	24	15
U12-905062	23	15	15	25	23	14	23

UNIFORM TEST II, 2015

YIELD RANK

Strain	Ingham County MI	Lenawee County MI	Lamberton MN	Waseca MN	Cotes-field NE
IA2102 (II)	1	9	21	22	24
IA1022 (SCN)	26	26	1	13	21
IA3024	10	2	18	9	4
LD02-4485 (SCN)	6	20	20	8	18
AR13-232001	18	18	9	17	2
E12020	14	8	17	14	7
E12034	23	5	12	10	25
E12042	7	13	6	23	1
E12084	15	10	14	24	12
LD10-10198	13	15	11	21	16
LD10-14323	5	14	16	19	23
LD10-5213a	19	19	22	3	8
LD11-643	11	6	10	20	3
U11-346046	8	12	26	26	11
U11-374036	24	3	2	7	17
U11-376008	22	23	5	5	8
U11-396034	3	4	24	25	6
U11-444079	20	11	19	10	13
U11-610109	2	1	25	15	13
U11-614119	17	7	4	4	19
U11-619102	21	25	15	12	5
U11-907098	16	16	7	15	13
U11-911079	9	21	13	1	20
U11-918019	4	17	23	18	26
U11-920017	12	24	8	2	22
U12-905062	25	22	3	6	8

UNIFORM TEST II, 2015

YIELD RANK

Strain	Hooper NE	Worms NE	Hoytville OH	Wooster OH	Chatham ONT
IA2102 (II)	1	21	18	15	14
IA1022 (SCN)	21	22	20	23	23
IA3024	18	12	6	4	26
LD02-4485 (SCN)	16	18	11	11	21
AR13-232001	7	23	16	18	3
E12020	12	7	14	8	25
E12034	5	19	23	2	2
E12042	19	10	8	16	1
E12084	23	25	19	22	22
LD10-10198	4	14	13	13	7
LD10-14323	25	20	9	25	11
LD10-5213a	3	26	18	24	12
LD11-643	8	17	4	14	10
U11-346046	10	1	1	3	5
U11-374036	10	16	25	5	24
U11-376008	22	9	22	10	9
U11-396034	13	4	2	6	4
U11-444079	20	13	7	12	15
U11-610109	9	6	5	19	13
U11-614119	24	3	10	9	17
U11-619102	2	8	21	7	8
U11-907098	17	5	24	20	20
U11-911079	15	15	17	21	19
U11-918019	14	24	15	26	18
U11-920017	5	2	3	1	6
U12-905062	26	11	12	17	16

UNIFORM TEST II, 2015

MATURITY (date)

Strain	Mean 14 Tests	Ames IA	Boone County IA	Dekalb IL	Urbana IL	Wanatah IN	West Lafayette IN
IA2102 (II)	9/22	9/19	9/25	9/25	9/4	9/27	9/18
IA1022 (SCN)	-4	11	-7	-8	-5	-3	-1
IA3024	4	9	3	4	6	1	6
LD02-4485 (SCN)	2	10	-2	2	3	2	5
AR13-232001	1	11	1	-1	5	1	2
E12020	4	17	2	3	9	2	1
E12034	7	16	10	7	13	5	6
E12042	4	14	6	1	4	0	3
E12084	3	11	7	0	5	3	3
LD10-10198	2	12	0	0	4	2	3
LD10-14323	4	22	5	0	5	1	1
LD10-5213a	4	18	5	3	5	2	4
LD11-643	2	15	4	-1	4	1	2
U11-346046	6	17	10	7	9	5	4
U11-374036	5	5	4	5	11	5	5
U11-376008	4	9	5	2	8	3	4
U11-396034	6	12	9	6	11	6	5
U11-444079	3	8	1	2	5	2	4
U11-610109	3	14	2	2	4	2	3
U11-614119	4	16	0	3	9	5	5
U11-619102	3	11	1	2	8	3	4
U11-907098	-2	13	-4	-5	0	-2	2
U11-911079	0	11	-3	0	3	1	4
U11-918019	-0	13	-3	-2	2	2	3
U11-920017	3	4	4	17	5	2	3
U12-905062	1	17	4	8	-1	0	0
Date Planted	5/20	5/23	5/13	5/22	5/14	5/22	5/27
Days to Mature	125.6	119	135	126	113	128	114

UNIFORM TEST II, 2015

MATURITY (date)

Strain	Ingham County MI	Lenawee County MI	Lamberton MN	Waseca MN	Cotes-field NE
IA2102 (II)	9/25		10/8	10/3	
IA1022 (SCN)	-7		-9	-6	
IA3024	2		4	2	
LD02-4485 (SCN)	2		-3	0	
AR13-232001	0		-3	0	
E12020	3		0	2	
E12034	2		-1	6	
E12042	1		0	3	
E12084	2		-1	-2	
LD10-10198	2		-2	-3	
LD10-14323	3		-5	1	
LD10-5213a	3		-1	3	
LD11-643	3		-5	0	
U11-346046	5		0	5	
U11-374036	3		2	1	
U11-376008	3		-1	0	
U11-396034	3		3	3	
U11-444079	3		-8	-1	
U11-610109	4		-2	0	
U11-614119	3		1	2	
U11-619102	3		-7	-1	
U11-907098	-4		-11	-8	
U11-911079	1		-7	-2	
U11-918019	0		-12	-4	
U11-920017	2		-6	3	
U12-905062	-5		-5	-4	
Date Planted	5/22		5/20	5/13	
Days to Mature	126		141	143	

UNIFORM TEST II, 2015

MATURITY (date)

Strain	Hooper NE	Worms NE	Hoytville OH	Wooster OH	Chatham ONT
IA2102 (II)	9/24	9/17	9/19	9/13	10/2
IA1022 (SCN)	-4	-2	-3	-5	-5
IA3024	0	4	6	4	-0
LD02-4485 (SCN)	-2	1	4	4	-3
AR13-232001	1	5	3	2	-7
E12020	2	6	6	3	0
E12034	8	10	6	8	0
E12042	4	6	5	4	-1
E12084	-1	2	5	6	-3
LD10-10198	1	4	3	6	1
LD10-14323	1	7	4	4	-2
LD10-5213a	2	5	5	8	-1
LD11-643	-3	2	3	6	-4
U11-346046	6	9	8	7	-3
U11-374036	7	8	7	7	2
U11-376008	3	7	6	7	-3
U11-396034	6	6	7	8	-1
U11-444079	1	5	5	8	1
U11-610109	-2	3	4	7	-2
U11-614119	1	3	6	7	-1
U11-619102	3	7	4	7	1
U11-907098	-4	0	-1	-4	-2
U11-911079	-4	0	2	-0	-0
U11-918019	-3	-1	2	3	-5
U11-920017	1	3	3	7	-1
U12-905062	-4	1	1	1	2
Date Planted	5/30	5/19	5/22	5/13	5/22
Days to Mature	117	121	120	123	133

UNIFORM TEST II, 2015

LODGING (score)

Strain	Mean 13 Tests	Ames IA	Boone County IA	Dekalb IL	Urbana IL	Wanatah IN	West Lafayette IN
IA2102 (II)	1.8	2.8	3.0	1.8	1.5	1.7	1.0
IA1022 (SCN)	1.6	2.8	2.0	1.8	1.8	1.2	1.0
IA3024	1.4	2.5	2.0	1.5	1.0	1.0	1.0
LD02-4485 (SCN)	1.5	2.5	1.5	1.8	1.8	1.8	1.0
AR13-232001	1.9	3.0	3.0	1.8	1.8	1.5	1.0
E12020	1.5	2.5	2.5	1.5	1.8	1.2	1.0
E12034	1.4	2.8	2.5	1.3	1.0	1.3	1.0
E12042	1.9	3.5	3.5	1.8	2.0	1.8	1.0
E12084	1.6	3.0	2.5	1.3	1.5	1.3	1.0
LD10-10198	1.2	2.3	1.0	1.0	1.0	1.2	1.0
LD10-14323	1.8	3.3	3.5	1.8	1.5	1.0	1.0
LD10-5213a	1.3	2.3	1.5	1.8	1.3	1.2	1.0
LD11-643	1.2	2.0	1.0	1.5	1.0	1.0	1.0
U11-346046	1.5	2.5	2.0	2.0	1.3	1.3	1.0
U11-374036	1.3	2.5	1.5	1.5	1.0	1.2	1.0
U11-376008	1.2	2.0	1.0	1.3	1.0	1.2	1.0
U11-396034	1.4	2.5	1.5	1.5	1.3	1.3	1.2
U11-444079	1.2	2.0	1.0	1.5	1.0	1.0	1.0
U11-610109	1.4	2.5	2.0	1.5	1.3	1.2	1.0
U11-614119	1.2	2.5	1.0	1.5	1.0	1.2	1.0
U11-619102	1.2	2.0	1.0	1.8	1.0	1.2	1.0
U11-907098	1.3	2.3	1.5	1.3	1.0	1.2	1.0
U11-911079	1.2	2.0	1.0	1.3	1.0	1.0	1.0
U11-918019	1.2	2.0	1.0	1.3	1.0	1.0	1.0
U11-920017	1.4	2.3	2.5	1.8	1.5	1.0	1.0
U12-905062	1.3	2.5	2.0	1.0	1.0	1.2	1.0

UNIFORM TEST II, 2015

LODGING (score)

Strain	Ingham County MI	Lenawee County MI	Lamberton MN	Waseca MN	Cotes-field NE
IA2102 (II)	1.5	2.0		3.0	
IA1022 (SCN)	1.0	1.0		3.0	
IA3024	1.0	1.0		2.0	
LD02-4485 (SCN)	1.0	1.0		3.0	
AR13-232001	1.5	2.0		3.0	
E12020	1.0	1.0		2.7	
E12034	1.0	1.0		2.3	
E12042	1.5	1.0		3.3	
E12084	1.0	1.5		2.7	
LD10-10198	1.0	1.0		2.0	
LD10-14323	2.0	1.0		2.7	
LD10-5213a	1.0	1.0		2.0	
LD11-643	1.0	1.0		2.0	
U11-346046	1.0	1.0		3.0	
U11-374036	1.0	1.0		2.3	
U11-376008	1.0	1.0		2.0	
U11-396034	1.0	1.0		2.3	
U11-444079	1.0	1.0		2.0	
U11-610109	1.0	1.5		2.0	
U11-614119	1.0	1.0		2.0	
U11-619102	1.0	1.0		2.0	
U11-907098	1.0	1.0		2.0	
U11-911079	1.0	1.0		2.0	
U11-918019	1.0	1.0		2.0	
U11-920017	1.0	1.0		2.3	
U12-905062	1.0	1.0		2.0	

UNIFORM TEST II, 2015

LODGING (score)

Strain	Hooper NE	Worms NE	Hoytville OH	Wooster OH	Chatham ONT
IA2102 (II)	2.0		1.0	1.0	1.3
IA1022 (SCN)	1.5		1.0	1.0	1.3
IA3024	1.0		1.0	1.0	1.7
LD02-4485 (SCN)	1.0		1.0	1.0	1.3
AR13-232001	2.0		1.0	1.0	1.7
E12020	1.5		1.0	1.0	1.3
E12034	1.0		1.0	1.0	1.3
E12042	2.8		1.0	1.0	1.0
E12084	1.5		1.0	1.0	1.3
LD10-10198	1.0		1.0	1.0	1.0
LD10-14323	2.0		1.0	1.0	1.7
LD10-5213a	1.0		1.0	1.0	1.3
LD11-643	1.0		1.0	1.0	1.0
U11-346046	1.5		1.0	1.0	1.3
U11-374036	1.0		1.0	1.0	1.3
U11-376008	1.0		1.0	1.0	1.3
U11-396034	1.0		1.0	1.0	1.0
U11-444079	1.0		1.0	1.0	1.3
U11-610109	1.0		1.0	1.0	1.7
U11-614119	1.0		1.0	1.0	1.0
U11-619102	1.0		1.0	1.0	1.3
U11-907098	1.0		1.0	1.0	1.3
U11-911079	1.0		1.0	1.0	1.0
U11-918019	1.0		1.0	1.0	1.0
U11-920017	1.0		1.0	1.0	1.3
U12-905062	1.0		1.0	1.0	1.3

UNIFORM TEST II, 2015

PLANT HEIGHT (inches)

Strain	Mean 14 Tests	Ames IA	Boone County IA	Dekalb IL	Urbana IL	Wanatah IN	West Lafayette IN
IA2102 (II)	32	37	38	31	32	27	26
IA1022 (SCN)	29	33	35	24	30	21	16
IA3024	31	35	38	25	34	28	22
LD02-4485 (SCN)	31	37	36	28	32	28	21
AR13-232001	37	45	42	29	42	32	23
E12020	33	39	40	27	35	27	23
E12034	33	41	42	33	33	30	19
E12042	34	40	42	33	35	29	21
E12084	34	41	42	33	34	29	25
LD10-10198	32	36	38	35	32	30	24
LD10-14323	32	37	39	30	33	28	19
LD10-5213a	31	33	35	31	31	26	24
LD11-643	31	34	35	32	31	27	22
U11-346046	33	38	38	34	32	29	25
U11-374036	31	37	40	27	30	29	17
U11-376008	30	35	37	27	30	29	22
U11-396034	34	40	41	28	35	30	25
U11-444079	31	37	38	30	30	28	20
U11-610109	34	36	40	30	36	30	25
U11-614119	31	37	37	29	33	27	25
U11-619102	31	35	38	27	30	27	23
U11-907098	30	34	34	26	29	26	22
U11-911079	32	38	38	30	34	27	25
U11-918019	30	33	36	27	31	25	22
U11-920017	31	35	38	30	30	29	22
U12-905062	32	38	40	30	32	29	19

UNIFORM TEST II, 2015

PLANT HEIGHT (inches)

Strain	Ingham County MI	Lenawee County MI	Lamberton MN	Waseca MN	Cotes-field NE
IA2102 (II)	24	29	39	39	
IA1022 (SCN)	20	23	38	38	
IA3024	23	27	42	40	
LD02-4485 (SCN)	24	27	41	43	
AR13-232001	25	36	45	46	
E12020	26	30	43	41	
E12034	23	30	44	43	
E12042	24	30	43	41	
E12084	27	32	40	43	
LD10-10198	26	29	40	39	
LD10-14323	26	29	41	38	
LD10-5213a	25	29	39	37	
LD11-643	24	30	38	38	
U11-346046	27	30	38	44	
U11-374036	20	30	42	43	
U11-376008	21	26	40	39	
U11-396034	29	32	41	41	
U11-444079	21	31	39	39	
U11-610109	25	31	43	43	
U11-614119	22	30	38	42	
U11-619102	21	27	39	41	
U11-907098	23	27	37	37	
U11-911079	24	24	39	40	
U11-918019	20	27	37	37	
U11-920017	24	28	36	38	
U12-905062	24	26	39	39	

UNIFORM TEST II, 2015

PLANT HEIGHT (inches)

Strain	Hooper NE	Worms NE	Hoytville OH	Wooster OH	Chatham ONT
IA2102 (II)	40		26	36	28
IA1022 (SCN)	38		23	35	25
IA3024	40		26	35	25
LD02-4485 (SCN)	36		27	35	23
AR13-232001	47		28	38	34
E12020	42		26	38	29
E12034	41		23	35	26
E12042	42		27	39	32
E12084	42		27	37	28
LD10-10198	39		26	33	27
LD10-14323	40		25	35	26
LD10-5213a	38		25	32	27
LD11-643	36		25	31	26
U11-346046	39		30	35	29
U11-374036	42		23	33	24
U11-376008	40		24	31	26
U11-396034	39		27	36	29
U11-444079	37		23	33	28
U11-610109	41		27	35	29
U11-614119	37		27	33	25
U11-619102	38		24	33	27
U11-907098	36		23	33	29
U11-911079	43		25	34	25
U11-918019	35		24	34	27
U11-920017	37		26	32	26
U12-905062	41		27	35	26

UNIFORM TEST II, 2015

SEED SIZE (g/100)

Strain	Mean 13 Tests	Ames IA	Boone County IA	Dekalb IL	Urbana IL	Wanatah IN	West Lafayette IN
IA2102 (II)	15.8	12.5		15.4	15.8	16.8	15.3
IA1022 (SCN)	15.2	11.9		14.8	15.2	15.0	15.2
IA3024	16.0	15.2		15.5	15.1	15.5	15.9
LD02-4485 (SCN)	14.5	13.0		14.1	14.2	14.5	13.9
AR13-232001	16.5	15.6		13.6	16.8	16.5	15.7
E12020	15.3	14.1		14.2	14.5	14.6	14.1
E12034	15.7	13.9		15.0	16.0	15.7	15.6
E12042	14.7	12.5		13.2	15.8	12.8	13.1
E12084	14.1	13.0		13.9	14.5	13.6	13.1
LD10-10198	13.9	11.8		14.1	14.3	14.0	13.4
LD10-14323	16.0	15.7		15.2	15.5	15.8	14.1
LD10-5213a	15.9	15.4		15.4	15.4	15.4	14.2
LD11-643	16.9	13.2		15.7	17.1	16.5	16.9
U11-346046	16.4	15.8		14.0	16.3	15.2	14.4
U11-374036	14.8	14.7		13.7	13.9	14.3	13.4
U11-376008	16.4	14.2		14.6	16.1	16.0	15.7
U11-396034	15.2	14.7		13.8	14.4	13.8	13.8
U11-444079	14.4	12.6		12.9	14.0	13.6	13.3
U11-610109	15.4	14.3		14.8	15.6	14.2	14.4
U11-614119	16.1	15.6		15.8	16.3	15.6	14.9
U11-619102	14.5	12.4		13.5	14.4	13.4	14.2
U11-907098	15.1	12.4		14.6	15.6	15.4	14.6
U11-911079	13.0	11.5		13.5	13.4	12.6	11.9
U11-918019	14.8	12.1		13.8	15.1	14.0	14.0
U11-920017	16.6	14.4		16.0	16.1	16.2	14.6
U12-905062	15.5	13.3		14.0	15.0	15.6	14.7

UNIFORM TEST II, 2015

SEED SIZE (g/100)

Strain	Ingham County MI	Lenawee County MI	Lamberton MN	Waseca MN	Cotes-field NE
IA2102 (II)	15.8		17.9	16.0	16.0
IA1022 (SCN)	14.6		16.1	15.2	16.0
IA3024	16.2		16.8	16.0	18.0
LD02-4485 (SCN)	14.5		15.6	14.6	16.0
AR13-232001	15.1		18.5	17.1	19.0
E12020	15.1		17.3	15.7	18.0
E12034	15.6		16.1	15.5	16.0
E12042	13.3		17.0	15.8	17.0
E12084	13.1		15.7	14.0	16.0
LD10-10198	12.9		15.0	13.7	15.0
LD10-14323	16.5		17.7	17.1	17.0
LD10-5213a	16.2		17.5	16.0	18.0
LD11-643	16.4		17.8	16.6	19.0
U11-346046	14.6		17.9	18.7	19.0
U11-374036	14.1		17.7	16.0	16.0
U11-376008	16.2		18.5	17.2	18.0
U11-396034	14.4		17.2	16.5	16.0
U11-444079	14.9		15.8	15.1	16.0
U11-610109	16.6		17.4	15.9	16.0
U11-614119	15.5		18.1	17.7	17.0
U11-619102	14.4		16.3	15.0	16.0
U11-907098	15.2		16.2	15.3	17.0
U11-911079	12.7		14.6	13.4	14.0
U11-918019	15.6		16.1	15.1	16.0
U11-920017	15.9		16.8	18.6	19.0
U12-905062	14.4		17.4	16.5	17.0

UNIFORM TEST II, 2015

SEED SIZE (g/100)

Strain	Hooper NE	Worms NE	Hoytville OH	Wooster OH	Chatham ONT
IA2102 (II)	18.0		14.3	15.0	16.4
IA1022 (SCN)	16.0		15.8	14.3	17.9
IA3024	18.0		15.7	14.0	16.5
LD02-4485 (SCN)	16.0		14.2	13.3	15.2
AR13-232001	19.0		15.0	15.1	17.4
E12020	17.0		13.7	14.6	15.7
E12034	17.0		15.6	14.8	17.0
E12042	16.0		14.5	13.4	16.1
E12084	16.0		13.0	13.5	14.3
LD10-10198	15.0		14.1	13.9	14.1
LD10-14323	17.0		14.6	15.8	16.2
LD10-5213a	18.0		14.0	14.1	17.4
LD11-643	19.0		17.2	15.8	19.0
U11-346046	19.0		14.9	16.4	16.9
U11-374036	16.0		14.1	13.8	14.7
U11-376008	18.0		15.0	15.6	18.5
U11-396034	17.0		14.2	15.8	15.9
U11-444079	16.0		14.2	14.4	14.7
U11-610109	16.0		14.9	14.5	16.0
U11-614119	17.0		14.9	15.4	15.7
U11-619102	16.0		14.1	14.0	14.8
U11-907098	16.0		15.1	13.2	16.0
U11-911079	14.0		12.2	11.7	13.5
U11-918019	17.0		14.9	13.3	15.2
U11-920017	18.0		15.4	16.7	17.7
U12-905062	17.0		15.6	13.9	17.0

UNIFORM TEST II, 2015

SEED QUALITY (score)

Strain	Mean 12 Tests	Ames IA	Boone County IA	Dekalb IL	Urbana IL	Wanatah IN	West Lafayette IN
IA2102 (II)	1.6	2.0		1.0	2.0	1.5	1.0
IA1022 (SCN)	1.5	2.0		1.0	1.0	1.0	1.0
IA3024	1.5	1.0		1.0	2.0	1.0	1.5
LD02-4485 (SCN)	1.6	2.0		1.0	2.0	1.0	1.0
AR13-232001	1.6	2.0		1.0	2.0	1.5	1.0
E12020	1.3	1.0		1.0	1.0	1.0	1.0
E12034	1.3	1.0		1.0	2.0	1.0	1.0
E12042	1.3	1.0		1.0	1.0	1.0	1.0
E12084	1.4	1.0		1.0	2.0	1.0	1.0
LD10-10198	1.4	1.0		1.0	2.0	1.0	1.0
LD10-14323	1.3	1.0		1.0	1.0	1.0	1.0
LD10-5213a	1.3	1.0		1.0	2.0	1.0	1.0
LD11-643	1.5	2.0		1.0	2.0	1.5	1.5
U11-346046	1.4	2.0		1.0	1.0	1.0	1.0
U11-374036	1.4	2.0		1.0	1.0	1.0	1.0
U11-376008	1.3	2.0		1.0	1.0	1.0	1.0
U11-396034	1.4	1.0		1.0	2.0	1.0	1.0
U11-444079	1.4	2.0		1.0	1.0	1.0	1.0
U11-610109	1.3	1.0		1.0	2.0	1.0	1.0
U11-614119	1.4	2.0		1.0	2.0	1.0	1.0
U11-619102	1.4	1.0		1.0	2.0	1.0	1.0
U11-907098	1.5	2.0		1.0	2.0	1.0	1.5
U11-911079	1.5	2.0		1.0	2.0	1.0	1.0
U11-918019	1.5	2.0		1.0	2.0	1.0	1.0
U11-920017	1.7	2.0		2.0	2.0	1.5	1.0
U12-905062	1.5	2.0		1.0	2.0	1.0	1.0

UNIFORM TEST II, 2015

SEED QUALITY (score)

Strain	Ingham County MI	Lenawee County MI	Lamberton MN	Waseca MN	Cotes-field NE
IA2102 (II)			2.0	2.0	3.0
IA1022 (SCN)			2.0	2.0	3.0
IA3024			2.0	2.0	2.0
LD02-4485 (SCN)			2.0	2.0	3.0
AR13-232001			2.0	2.0	3.0
E12020			2.0	2.0	2.0
E12034			2.0	1.0	2.0
E12042			2.0	1.0	3.0
E12084			2.0	2.0	2.0
LD10-10198			2.0	2.0	2.0
LD10-14323			3.0	1.0	2.0
LD10-5213a			2.0	1.0	2.0
LD11-643			2.0	1.0	2.0
U11-346046			2.0	2.0	2.0
U11-374036			2.0	1.0	3.0
U11-376008			2.0	1.0	2.0
U11-396034			2.0	2.0	2.0
U11-444079			2.0	2.0	2.0
U11-610109			2.0	1.0	2.0
U11-614119			2.0	1.0	2.0
U11-619102			2.0	2.0	2.0
U11-907098			2.0	1.0	2.0
U11-911079			2.0	2.0	2.0
U11-918019			2.0	2.0	2.0
U11-920017			3.0	2.0	2.0
U12-905062			2.0	2.0	2.0

UNIFORM TEST II, 2015

SEED QUALITY (score)

Strain	Hooper NE	Worms 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
IA3024	2.0		1.0	1.0	1.0
LD02-4485 (SCN)	2.0		1.0	1.0	1.0
AR13-232001	2.0		1.0	1.0	1.0
E12020	1.0		1.0	1.0	1.0
E12034	1.0		1.0	1.0	1.0
E12042	2.0		1.0	1.0	1.0
E12084	2.0		1.0	1.0	1.0
LD10-10198	2.0		1.0	1.0	1.0
LD10-14323	2.0		1.0	1.0	1.0
LD10-5213a	2.0		1.0	1.0	1.0
LD11-643	2.0		1.0	1.0	1.0
U11-346046	2.0		1.0	1.0	1.0
U11-374036	2.0		1.0	1.0	1.3
U11-376008	2.0		1.0	1.0	1.0
U11-396034	2.0		1.0	1.0	1.0
U11-444079	2.0		1.0	1.0	1.0
U11-610109	2.0		1.0	1.0	1.0
U11-614119	2.0		1.0	1.0	1.0
U11-619102	2.0		1.0	1.0	1.0
U11-907098	2.0		1.0	1.0	1.0
U11-911079	2.0		1.0	1.0	1.0
U11-918019	2.0		1.0	1.0	1.0
U11-920017	2.0		1.0	1.0	1.0
U12-905062	2.0		1.0	1.0	1.0

UNIFORM TEST II, 2015

PROTEIN (%)

Strain	Mean 7 Tests	Dekalb IL	Urbana IL	Wanatah IN	West Lafayette IN	Hoytville OH	Wooster OH	Chatham ONT
IA2102 (II)	35.4	33.4	33.7	34.1	34.4	35.9	35.9	40.0
IA1022 (SCN)	33.6	31.8	32.4	32.4	32.3	33.5	34.7	38.1
IA3024	34.0	32.6	31.8	32.6	33.6	34.3	33.2	39.6
LD02-4485 (SCN)	33.3	32.8	31.4	32.2	33.2	33.1	32.5	38.0
AR13-232001	34.0	32.2	31.8	33.0	32.9	33.7	35.1	39.2
E12020	28.8	33.0	33.1	32.7	33.8	34.2	35.0	0.0
E12034	34.3	33.6	32.6	33.2	33.7	32.8	34.0	40.1
E12042	34.2	32.2	33.5	32.4	33.4	34.2	34.2	39.6
E12084	35.5	35.1	33.3	34.4	34.6	35.5	35.4	40.5
LD10-10198	34.9	34.0	33.7	33.1	33.9	35.0	34.7	40.2
LD10-14323	35.7	34.1	34.0	34.9	35.4	35.5	36.7	39.4
LD10-5213a	33.7	33.9	31.8	33.1	33.1	33.4	32.0	38.6
LD11-643	33.2	31.7	32.2	31.4	31.9	33.1	33.8	38.0
U11-346046	35.8	35.5	33.1	35.0	34.2	35.8	35.4	41.9
U11-374036	34.0	32.7	31.8	32.9	33.2	34.1	34.1	39.3
U11-376008	34.7	34.1	33.2	33.5	34.2	34.1	34.1	39.7
U11-396034	34.7	33.8	33.3	33.4	33.4	34.9	33.5	40.6
U11-444079	34.2	32.7	31.7	32.7	33.2	35.0	34.0	40.0
U11-610109	34.3	33.4	31.9	32.9	33.0	34.1	35.0	40.0
U11-614119	34.2	33.9	32.4	33.2	33.4	33.1	33.5	39.7
U11-619102	34.1	32.5	31.1	32.8	33.2	34.6	34.0	40.3
U11-907098	34.6	32.9	33.3	33.0	34.0	34.6	35.3	38.8
U11-911079	34.5	33.7	32.3	33.1	33.0	34.1	34.1	41.5
U11-918019	33.2	32.2	31.1	31.5	32.0	33.7	33.7	38.2
U11-920017	33.2	31.2	32.7	31.8	31.9	33.6	33.6	37.7
U12-905062	35.2	33.6	33.8	33.9	33.8	35.2	35.4	40.6

UNIFORM TEST II, 2015

OIL (%)

Strain	Mean 7 Tests	Dekalb IL	Urbana IL	Wanatah IN	West Lafayette IN	Hoytville OH	Wooster OH	Chatham ONT
IA2102 (II)	19.6	19.5	20.1	19.2	19.7	18.6	18.9	21.4
IA1022 (SCN)	21.4	21.1	21.4	21.2	21.6	20.6	19.9	23.9
IA3024	20.5	19.8	21.1	20.2	20.4	19.8	20.1	22.2
LD02-4485 (SCN)	20.3	19.5	20.6	19.8	20.0	19.5	20.0	22.8
AR13-232001	20.4	20.2	21.0	19.9	20.5	19.7	19.2	22.3
E12020	20.3	20.0	20.6	20.2	20.2	19.5	19.6	21.7
E12034	20.2	19.5	20.2	19.9	20.1	20.1	19.7	21.8
E12042	20.4	20.1	20.4	20.4	20.3	19.8	19.5	22.2
E12084	19.3	18.4	19.8	18.9	19.2	18.8	19.1	21.0
LD10-10198	19.6	18.8	19.7	19.4	19.6	18.8	19.3	21.2
LD10-14323	19.7	19.6	20.3	19.4	19.6	19.1	19.1	21.1
LD10-5213a	20.7	19.5	20.7	20.1	20.4	20.2	20.7	23.1
LD11-643	21.1	20.4	20.8	20.9	21.3	20.5	19.9	23.5
U11-346046	19.4	18.3	20.5	18.9	20.0	18.7	19.1	20.6
U11-374036	20.2	19.4	20.7	19.8	20.0	19.5	19.8	22.1
U11-376008	20.5	19.8	20.8	20.1	20.4	20.1	20.5	21.7
U11-396034	20.0	19.2	20.3	19.5	20.1	19.2	20.0	21.6
U11-444079	20.0	19.5	20.4	19.5	20.1	19.3	19.5	21.4
U11-610109	20.6	19.7	21.1	20.4	20.8	20.0	19.7	22.4
U11-614119	20.5	19.6	20.8	19.8	20.3	20.2	20.5	22.0
U11-619102	20.0	19.4	20.4	19.6	20.0	19.2	19.4	21.7
U11-907098	20.0	19.6	20.2	19.9	19.7	19.5	18.9	22.3
U11-911079	19.5	18.8	19.6	18.8	19.3	18.5	18.6	22.6
U11-918019	20.4	19.7	20.8	20.2	20.3	19.5	19.5	22.8
U11-920017	20.7	20.3	20.4	20.4	20.7	19.8	20.0	23.1
U12-905062	20.2	20.0	20.3	19.9	20.2	19.6	19.4	22.0

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PRELIMINARY TEST IIA, 2015

Ent.	Strain	Parentage		Seed Source	Gen. Comp.	Unique Traits
1	IA2102 (II)	A04-545045 x AgriPro 98180-A01-0613		Fehr	F4	
2.	IA1022 (SCN)	Dairyland 98822 x A00-711024		Fehr	F5	SCN
3.	IA3024	A97-553017 x Pioneer YB33A99		Fehr		1% Linolenic
4.	AR13-231017	AR05-250103 x PI 567354		Cianzio	F5	
5.	AR13-232049	AR05-250110 x Golden Harv H-2285		Cianzio	F4	
6.	AR13-232106	AR07-176075 x Syngenta 03JR321088		Cianzio	F4	
7.	AR14-248009	Syngenta 06NB199520 x IAR2101 SCN		Cianzio	F4	
8.	AR14-248020	Syngenta 06NB199520 x IAR2101 SCN		Cianzio	F4	
9.	E13100	LD01-7323 x U01-390489		Wang	F5	
10.	E13126	E00003 x PI 416805		Wang	F5	
11.	E13132	E00003 x PI 416805		Wang	F5	
12.	E13139	Nenfeng 16 x U01-390489		Wang	F5	
13.	E13212	E06161 x E07051		Wang	F5	
14.	E13268	U03-300134 x E07051		Wang	F5	
15.	E13298	E09902 x E10928		Wang	F5	
16.	E13345	E10919 x E00003		Wang	F5	
17.	E13364	E07051 x E10928		Wang	F5	
18.	E13369	E07051 x E10928		Wang	F5	
19.	E13370	E07051 x E10928		Wang	F5	
20.	M09-263090	MN0606CN x MTC03-23-1001		Orf	F5	Wilt
21.	M09-263119	MN0606CN x MTC03-23-1001		Orf	F5	Wilt
22.	M09-264062	PI612717 x MTC00-112-49-9		Orf	F5	Wilt
23.	M09-278096	M90-184111 x E06936	CNYLD	Orf	F5	SCN
24.	M09-278097	M90-184111 x E06936	CNYLD	Orf	F5	SCN
25.	M09-281098	MN1701CN x LD02-4485	CNYLD	Orf	F5	SCN

PRELIMINARY TEST IIA, 2015

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	IDC Score Lamberton	IDC Score Waseca	Shattering Score Manhattan	SDS Data Ames DX Rank
IA2102 (II)	WGTTYYI	2.3	2.3	1.0	5.0
IA1022 (SCN)	PGTSYYI	2.0	2.0	2.0	2.2
IA3024	PGTSYDibI	1.8	1.8	1.0	11.8
AR13-231017	WTBDYBrI	1.5	1.5	1.0	0.1
AR13-232049	PGTIYGI	2.8	2.8	3.0	3.4
AR13-232106	PTBSYBI	2.5	2.5	1.0	1.7
AR14-248009	P+WGTIYBfI	2.3	2.3	2.0	7.0
AR14-248020	PGTSYLbfI	2.8	2.8	1.0	0.2
E13100	WGTDYYI	2.8	2.8	2.0	4.7
E13126	PTBSYLbrI	2.0	2.0	1.0	1.1
E13132	PTBSYBrI	1.4	1.4	1.0	2.0
E13139	WTBDYBI	2.5	2.5	2.0	25.2
E13212	PGTSYDbfI	1.9	1.9	1.0	0.0
E13268	PGTSYDibI	1.3	1.3	3.0	11.7
E13298	PTBSYBI	2.5	2.5	2.0	8.5
E13345	PTBDYBrI	1.4	1.4	1.0	1.9
E13364	PGTIYDbfI	2.3	2.3	2.0	0.1
E13369	P+WGTIYBfI	1.5	1.5	2.0	3.5
E13370	WTBSYBI	1.5	1.5	4.0	1.7
M09-263090	WGTSYYI	1.5	1.5	2.0	3.1
M09-263119	P+WGTSYBfI	1.6	1.6	3.0	2.5
M09-264062	PGTSYBfI	1.5	1.5	1.0	0.9
M09-278096	PTBSYYI	1.0	1.0	2.0	0.3
M09-278097	PTBIYGI	1.3	1.3	1.0	2.8
M09-281098	WTBSYGI	1.8	1.8	1.0	3.4

PRELIMINARY TEST IIA, 2015

REGIONAL SUMMARY

No. of Tests Strain	Yield 12 bu/a	Rank 12 No.	Maturity 12 Date	Lodging 10 Score	Plant Height 11 In.	Seed Size 11 g/100	Seed Quality 10 Score	Composition Protein 7 %	 Oil 7 %
IA2102 (II)	67.9	5	9/20	1.8	33	15.9	1.6	35.5	19.5
IA1022 (SCN)	64.2	16	-3.6	1.6	30	15.6	1.8	33.5	21.2
IA3024	69.8	2	3.5	1.3	34	17.0	1.7	34.3	20.4
AR13-231017	65.4	13	1.9	1.3	35	17.4	1.8	35.7	20.0
AR13-232049	63.0	18	-1.0	1.5	35	14.7	1.8	33.8	19.8
AR13-232106	69.2	3	-0.1	1.4	30	14.9	1.5	35.4	19.6
AR14-248009	66.2	10	0.6	1.7	34	15.5	1.7	34.7	19.4
AR14-248020	70.0	1	4.5	1.8	36	17.2	1.5	34.7	19.7
E13100	68.5	4	0.1	1.6	34	19.5	1.7	35.2	20.5
E13126	66.1	11	2.0	1.9	36	15.1	1.9	35.0	20.1
E13132	66.4	9	2.3	1.8	37	15.1	1.6	34.9	20.2
E13139	61.9	21	2.0	1.8	36	16.1	1.7	35.9	19.8
E13212	62.4	20	1.5	1.4	30	18.5	1.8	36.2	19.9
E13268	65.0	15	-3.0	1.4	30	15.2	1.7	34.3	19.9
E13298	65.6	12	2.3	1.7	37	17.5	1.7	35.3	19.9
E13345	66.5	8	2.7	1.6	32	14.9	1.7	34.9	20.3
E13364	67.2	6	1.5	1.9	31	16.0	1.7	35.6	19.5
E13369	62.6	19	-2.7	1.7	31	14.5	1.5	35.0	19.2
E13370	66.9	7	1.1	1.6	30	15.6	1.6	35.4	19.4
M09-263090	60.5	23	-0.8	1.6	37	15.0	1.6	35.2	19.9
M09-263119	59.8	24	-1.4	2.6	33	13.2	1.6	34.9	20.4
M09-264062	58.2	25	-3.8	1.4	29	16.9	1.6	36.4	20.1
M09-278096	65.3	14	-1.4	1.3	30	13.6	1.5	33.1	20.9
M09-278097	64.2	16	-2.3	1.3	30	13.4	1.6	33.1	21.0
M09-281098	61.6	22	-3.0	1.3	31	14.2	1.6	33.8	20.3
Mean	64.9			1.7	34.2	16.3	1.7		
C.V. (%)	19.9			52.7	20.3	11.4	31.0		
L.S.D. (5%)	7.3			0.6	4.1	1.0	0.5		

123.5 Days After Planting

PRELIMINARY TEST IIA, 2015

YIELD (bu/a)

Strain	Mean 12 Tests	Ames IA	Boone County IA	Urbana IL	West Lafayette IN*	Ingham County MI	Lamber-ton MN
IA2102 (II)	67.9	59.8	70.7	56.7	42.3	59.5	56.6
IA1022 (SCN)	64.2	56.5	65.3	61.5	34.6	42.6	57.0
IA3024	69.8	53.8	67.9	57.8	52.1	60.9	56.4
AR13-231017	65.4	58.7	59.6	56.6	43.5	50.9	47.5
AR13-232049	63.0	61.0	64.1	61.0	41.8	64.9	55.5
AR13-232106	69.2	60.8	67.0	69.9	35.7	51.0	62.2
AR14-248009	66.2	51.6	57.2	60.9	49.6	71.1	51.4
AR14-248020	70.0	58.2	63.9	60.2	55.8	77.4	52.1
E13100	68.5	60.5	64.6	61.9	46.0	58.5	50.2
E13126	66.1	55.2	63.3	65.0	41.8	49.2	40.7
E13132	66.4	50.5	62.2	57.7	33.7	55.0	49.8
E13139	61.9	51.4	61.1	60.4	39.5	49.4	51.6
E13212	62.4	60.8	67.3	62.4	38.1	41.2	52.7
E13268	65.0	60.8	72.2	57.4	40.2	57.3	59.4
E13298	65.6	53.1	58.8	57.5	35.1	59.8	48.5
E13345	66.5	63.4	59.4	63.3	37.9	44.9	51.7
E13364	67.2	60.9	68.6	53.6	40.0	68.5	56.7
E13369	62.6	53.7	64.0	60.2	40.4	59.2	43.3
E13370	66.9	57.1	62.6	54.9	39.6	46.2	52.9
M09-263090	60.5	50.4	63.8	54.0	31.2	57.9	43.0
M09-263119	59.8	50.6	56.0	60.2	33.2	46.9	46.6
M09-264062	58.2	50.4	49.9	60.7	30.4	46.6	47.1
M09-278096	65.3	56.7	68.1	59.5	42.6	55.7	51.4
M09-278097	64.2	56.0	70.3	58.1	30.9	47.9	45.4
M09-281098	61.6	53.0	64.7	59.2	37.2	60.9	50.8
Location Mean		56.5	64.0	60.2	39.6	55.7	51.4
C.V. (%)		7.4	7.2	12.4	16.7	12.3	13.8
L.S.D. (5%)		8.5	9.4	12.6	7.9	17.1	14.1
Row Sp. (In.)		30	30	30	30	15	30
Rows/Plot		4	4	4	4	6	4
Reps		2	2	2	2	2	2

*Data not included in the mean.

PRELIMINARY TEST IIA, 2015

YIELD (bu/a)

Strain	Waseca MN	Cotes-field NE	Hooper NE	Worms NE	Hoyt-ville OH	Wooster OH	Chatham ONT
IA2102 (II)	55.6	99.0	85.9	71.0	73.6	61.1	65.3
IA1022 (SCN)	56.9	85.7	75.7	80.4	66.3	59.2	63.4
IA3024	57.9	99.1	81.4	85.8	74.8	67.8	73.7
AR13-231017	63.0	94.7	72.0	83.4	71.2	60.8	66.2
AR13-232049	52.7	90.2	56.0	70.4	64.5	56.6	58.9
AR13-232106	60.0	103.4	80.5	77.6	74.3	61.4	62.4
AR14-248009	46.6	88.6	75.9	86.2	74.1	61.7	69.4
AR14-248020	51.3	99.6	85.7	74.3	74.9	64.5	78.5
E13100	62.3	87.0	77.5	94.5	72.9	63.1	68.8
E13126	55.3	92.9	79.0	95.9	68.6	63.5	64.3
E13132	59.1	91.3	81.0	100.7	54.9	60.8	74.4
E13139	53.4	82.6	68.0	74.8	63.1	58.7	68.4
E13212	51.0	85.8	58.6	77.9	66.2	61.9	62.9
E13268	62.7	89.3	61.1	80.4	59.6	56.5	63.0
E13298	50.4	89.4	84.9	77.0	70.5	64.1	73.5
E13345	57.5	90.2	82.1	83.8	66.0	64.6	71.6
E13364	66.9	95.2	78.7	68.2	66.4	56.1	66.3
E13369	61.2	80.4	73.9	69.2	65.1	54.4	66.6
E13370	60.6	92.3	82.5	87.0	72.8	63.0	70.7
M09-263090	50.1	75.8	75.2	70.0	65.2	57.0	63.0
M09-263119	56.1	77.1	68.6	66.5	74.1	46.9	67.9
M09-264062	53.7	77.3	69.7	76.7	59.9	56.1	50.9
M09-278096	57.9	81.1	74.0	87.4	66.8	57.6	67.2
M09-278097	58.6	79.5	80.2	82.7	66.7	60.3	64.5
M09-281098	50.6	76.7	76.2	66.3	65.7	55.4	60.1
Location Mean	56.9	89.3	76.2	77.9	66.7	60.8	66.3
C.V. (%)	9.3	6.5	9.6	10.0	6.2	5.7	10.7
L.S.D. (5%)	10.1	14.2	13.0	20.4	8.7	7.1	7.1
Row Sp. (In.)	30	30	30	30	7.5	7.5	17
Rows/Plot	4	4	4	4	8	8	5
Reps	2	2	2	2	2	2	2

PRELIMINARY TEST IIA, 2015

YIELD RANK

Strain	Yield Rank	Ames IA	Boone County IA	Urbana IL	West Lafayette IN	Ingham County MI	Lamber-ton MN
IA2102 (II)	5	8	2	21	7	8	5
IA1022 (SCN)	16	13	9	6	20	24	3
IA3024	2	16	6	17	2	5	6
AR13-231017	13	9	20	22	5	16	19
AR13-232049	18	2	12	7	8	4	7
AR13-232106	3	6	8	1	18	15	1
AR14-248009	10	20	23	8	3	2	13
AR14-248020	1	10	14	11	1	1	10
E13100	4	7	11	5	4	10	16
E13126	11	15	16	2	8	18	25
E13132	9	23	18	18	21	14	17
E13139	21	21	19	10	14	17	12
E13212	20	4	7	4	15	25	9
E13268	15	4	1	20	11	12	2
E13298	12	18	22	19	19	7	18
E13345	8	1	21	3	16	23	11
E13364	6	3	4	25	12	3	4
E13369	19	17	13	11	10	9	23
E13370	7	11	17	23	13	22	8
M09-263090	23	24	15	24	23	11	24
M09-263119	24	22	24	11	22	20	21
M09-264062	25	24	25	9	25	21	20
M09-278096	14	12	5	14	6	13	13
M09-278097	16	14	3	16	24	19	22
M09-281098	22	19	10	15	17	6	15

PRELIMINARY TEST IIA, 2015

YIELD RANK

Strain	Waseca MN	Cotes-field NE	Hooper NE	Worms NE	Hoyt-ville OH	Wooster OH	Chatham ONT
IA2102 (II)	15	4	1	19	5	11	15
IA1022 (SCN)	13	17	15	11	14	14	18
IA3024	10	3	6	7	2	1	3
AR13-231017	2	6	19	9	8	12	14
AR13-232049	19	10	25	20	20	18	24
AR13-232106	7	1	8	14	3	10	22
AR14-248009	25	14	14	6	4	9	7
AR14-248020	20	2	2	18	1	3	1
E13100	4	15	12	3	6	6	8
E13126	16	7	10	2	10	5	17
E13132	8	9	7	1	24	12	2
E13139	18	18	22	17	21	15	9
E13212	21	16	24	13	15	8	21
E13268	3	13	23	11	23	19	20
E13298	23	12	3	15	9	4	4
E13345	12	10	5	8	16	2	5
E13364	1	5	11	23	13	20	13
E13369	5	20	18	22	19	22	12
E13370	6	8	4	5	7	7	6
M09-263090	24	25	16	21	18	17	19
M09-263119	14	23	21	24	4	23	10
M09-264062	17	22	20	16	22	20	25
M09-278096	10	19	17	4	11	16	11
M09-278097	9	21	9	10	12	13	16
M09-281098	22	24	13	25	17	21	23

PRELIMINARY TEST IIA, 2015

MATURITY (date)

Strain	Mean 12 Tests	Ames IA	Boone County IA	Urbana IL	West Lafayette IN	Ingham County MI	Lamber-ton MN
IA2102 (II)	9/20	9/1	9/24	9/3	9/18	9/26	10/8
IA1022 (SCN)	-4	-3	-4	-4	-1	-8	-8
IA3024	3	3	4	7	5	3	2
AR13-231017	2	2	4	5	1	-1	1
AR13-232049	-1	1	-2	2	2	2	-7
AR13-232106	-0	-1	1	3	1	-1	-6
AR14-248009	1	-1	1	4	2	4	-5
AR14-248020	5	9	6	11	5	5	-2
E13100	0	4	0	2	1	1	-6
E13126	2	7	4	5	4	-1	-5
E13132	2	4	5	8	3	0	0
E13139	2	3	1	8	3	-1	1
E13212	2	11	1	7	3	-1	1
E13268	-3	-2	-5	0	-2	-2	-9
E13298	2	3	1	8	3	1	-6
E13345	3	6	4	7	2	0	-1
E13364	2	7	0	3	1	3	-1
E13369	-3	-2	-4	-1	-2	1	-9
E13370	1	3	4	6	2	-1	1
M09-263090	-1	4	-3	-1	-1	-2	-5
M09-263119	-1	-3	-3	-2	0	-2	-5
M09-264062	-4	-2	-6	-5	0	-4	-13
M09-278096	-1	-1	2	0	1	-3	-11
M09-278097	-2	-1	1	-1	1	-4	-11
M09-281098	-3	-4	-1	-2	2	-4	-11
Date Planted	5/19	5/23	5/13	5/14	5/27	5/22	5/20
Days to Mature	123.5	101	134	112	114	127	141

PRELIMINARY TEST IIA, 2015

MATURITY (date)

Strain	Waseca MN	Cotes-field NE	Hooper NE	Worms NE	Hoyt-ville OH	Wooster OH	Chatham ONT
IA2102 (II)	10/1		9/24	9/18	9/18	9/13	9/27
IA1022 (SCN)	-3		-4	0	-1	-4	-4
IA3024	3		2	5	7	8	-7
AR13-231017	-1		0	1	1	6	5
AR13-232049	-3		-2	0	2	1	-6
AR13-232106	-1		-1	1	1	-2	5
AR14-248009	-1		-1	0	1	1	2
AR14-248020	6		5	5	8	8	-10
E13100	-1		-3	2	2	-2	2
E13126	-1		0	2	3	5	2
E13132	2		-1	3	3	3	-2
E13139	1		0	1	3	8	-4
E13212	2		1	3	3	5	-17
E13268	-8		-7	0	-2	-2	2
E13298	0		1	4	4	6	2
E13345	1		1	1	3	5	2
E13364	0		-1	2	3	-1	2
E13369	-3		-4	-1	-3	-4	-1
E13370	0		-1	0	2	2	-5
M09-263090	-1		-3	0	1	-1	2
M09-263119	1		-1	2	0	-4	2
M09-264062	-6		-7	-4	-3	-1	5
M09-278096	-2		-4	0	3	-2	-1
M09-278097	-2		-4	-3	1	-4	-1
M09-281098	-6		-7	-4	3	-4	2
Date Planted	5/13		5/30	5/19	5/22	5/13	5/22
Days to Mature	141		117	122	119	123	128

PRELIMINARY TEST IIA, 2015

LODGING (score)

Strain	Mean 10 Tests	Ames IA	Boone County IA	Urbana IL	West Lafayette IN	Ingham County MI	Lamber-ton MN
IA2102 (II)	1.8	3.3	3.0	1.3	1.0	2.5	
IA1022 (SCN)	1.6	3.0	2.5	1.3	1.0	1.0	
IA3024	1.3	2.5	1.0	1.3	1.0	1.0	
AR13-231017	1.3	2.5	1.5	1.3	1.0	1.0	
AR13-232049	1.5	2.8	1.5	1.5	1.0	2.0	
AR13-232106	1.4	2.5	2.0	1.3	1.0	1.0	
AR14-248009	1.7	2.8	2.0	1.5	1.0	3.0	
AR14-248020	1.8	3.0	3.0	1.0	1.0	3.0	
E13100	1.6	3.0	2.0	1.3	1.0	1.5	
E13126	1.9	3.5	3.0	1.5	1.0	1.5	
E13132	1.8	3.0	3.0	2.0	1.0	1.0	
E13139	1.8	3.3	2.0	1.8	1.0	1.5	
E13212	1.4	2.8	1.0	1.0	1.0	1.0	
E13268	1.4	2.5	2.0	1.0	1.0	1.0	
E13298	1.7	3.0	2.5	1.3	1.0	2.0	
E13345	1.6	3.0	2.0	1.5	1.0	1.0	
E13364	1.9	3.8	2.0	2.0	1.0	2.0	
E13369	1.7	3.3	2.5	1.5	1.0	1.5	
E13370	1.6	3.3	1.5	1.8	1.0	1.0	
M09-263090	1.6	2.8	2.5	1.0	1.0	1.0	
M09-263119	2.6	3.8	4.0	2.8	1.0	1.5	
M09-264062	1.4	2.5	1.0	1.0	1.0	1.0	
M09-278096	1.3	2.5	1.0	1.0	1.0	1.0	
M09-278097	1.3	2.5	1.0	1.0	1.0	1.0	
M09-281098	1.3	2.3	1.0	1.0	1.0	1.0	

PRELIMINARY TEST IIA, 2015

LODGING (score)

Strain	Waseca MN	Cotes-field NE	Hooper NE	Worms NE	Hoyt-ville OH	Wooster OH	Chatham ONT
IA2102 (II)	2.5		1.0		1.0	1.0	1.0
IA1022 (SCN)	2.5		2.0		1.0	1.0	1.0
IA3024	2.5		1.0		1.0	1.0	1.0
AR13-231017	2.0		1.0		1.0	1.0	1.0
AR13-232049	2.5		1.0		1.0	1.0	1.0
AR13-232106	2.5		1.0		1.0	1.0	1.0
AR14-248009	2.5		1.0		1.0	1.0	1.0
AR14-248020	2.0		1.5		1.0	1.0	1.0
E13100	2.5		1.5		1.0	1.0	1.0
E13126	3.0		2.0		1.0	1.0	1.0
E13132	3.0		2.0		1.0	1.0	1.0
E13139	3.5		1.5		1.0	1.5	1.0
E13212	3.0		1.0		1.0	1.0	1.0
E13268	2.5		1.0		1.0	1.0	1.0
E13298	3.0		1.5		1.0	1.0	1.0
E13345	3.0		1.0		1.0	1.0	1.0
E13364	3.0		2.3		1.0	1.0	1.0
E13369	3.0		1.5		1.0	1.0	1.0
E13370	3.0		1.0		1.0	1.0	1.0
M09-263090	3.0		1.5		1.0	1.5	1.0
M09-263119	4.0		3.8		1.0	3.0	1.0
M09-264062	3.0		1.0		1.0	1.0	1.0
M09-278096	2.0		1.0		1.0	1.0	1.0
M09-278097	2.0		1.0		1.0	1.0	1.0
M09-281098	2.5		1.0		1.0	1.0	1.0

PRELIMINARY TEST IIA, 2015

PLANT HEIGHT (inches)

Strain	Mean 11 Tests	Ames IA	Boone County IA	Urbana IL	West Lafayette IN	Ingham County MI	Lamber-ton MN
IA2102 (II)	33	40	40	31	22	25	41
IA1022 (SCN)	30	33	38	28	18	23	38
IA3024	34	38	41	32	24	25	43
AR13-231017	35	40	40	36	18	26	43
AR13-232049	35	39	40	36	20	32	44
AR13-232106	30	34	33	28	19	26	35
AR14-248009	34	39	39	34	24	33	39
AR14-248020	36	41	40	33	23	35	41
E13100	34	39	41	32	23	26	41
E13126	36	44	45	39	19	25	46
E13132	37	44	42	39	18	26	47
E13139	36	44	42	37	21	29	42
E13212	30	36	36	27	19	20	37
E13268	30	35	37	29	16	25	36
E13298	37	43	47	35	22	29	44
E13345	32	38	36	33	18	25	38
E13364	31	38	40	32	17	25	38
E13369	31	37	37	30	19	27	40
E13370	30	36	34	30	18	24	38
M09-263090	37	40	47	34	18	32	48
M09-263119	33	40	45	28	16	23	46
M09-264062	29	34	34	27	16	22	36
M09-278096	30	35	36	27	16	22	40
M09-278097	30	37	38	26	15	23	39
M09-281098	31	36	37	29	18	27	38

PRELIMINARY TEST IIA, 2015

PLANT HEIGHT (inches)

Strain	Waseca MN	Cotes-field NE	Hooper NE	Worms NE	Hoyt-ville OH	Wooster OH	Chatham ONT
IA2102 (II)	40		40		27	35	27
IA1022 (SCN)	36		40		22	34	26
IA3024	41		41		26	36	29
AR13-231017	43		42		29	37	27
AR13-232049	41		40		29	37	27
AR13-232106	35		35		24	30	29
AR14-248009	43		39		27	33	26
AR14-248020	43		43		28	36	32
E13100	41		40		29	36	28
E13126	41		42		28	40	29
E13132	48		44		25	40	34
E13139	44		40		26	39	37
E13212	38		38		24	33	27
E13268	37		34		23	33	25
E13298	44		43		27	36	33
E13345	38		43		23	37	26
E13364	37		38		22	32	28
E13369	38		38		22	31	25
E13370	40		32		24	33	26
M09-263090	48		48		26	39	28
M09-263119	34		45		25	35	24
M09-264062	36		34		21	29	27
M09-278096	37		35		23	31	26
M09-278097	38		32		23	31	30
M09-281098	40		36		24	32	25

PRELIMINARY TEST IIA, 2015

SEED SIZE (g/100)

Strain	Mean 11 Tests	Ames IA	Boone County IA	Urbana IL	West Lafayette IN	Ingham County MI	Lamber-ton MN
IA2102 (II)	15.9	15.6		15.6	15.8	15.3	17.9
IA1022 (SCN)	15.6	14.6		16.5	15.4	14.1	16.8
IA3024	17.0	16.8		15.8	15.7	18.2	19.3
AR13-231017	17.4	16.1		17.6	16.3	17.0	20.1
AR13-232049	14.7	15.0		15.2	13.7	15.1	16.9
AR13-232106	14.9	14.8		15.0	13.8	14.4	17.0
AR14-248009	15.5	15.9		15.6	14.3	16.1	17.2
AR14-248020	17.2	17.6		15.6	16.0	18.5	19.4
E13100	19.5	18.6		19.3	18.8	20.1	20.3
E13126	15.1	15.4		15.1	13.9	13.4	16.8
E13132	15.1	15.0		15.2	13.7	14.8	16.8
E13139	16.1	17.1		16.1	14.2	14.6	18.2
E13212	18.5	19.4		19.5	18.0	17.1	20.5
E13268	15.2	14.1		14.8	14.1	16.2	16.4
E13298	17.5	18.6		16.7	16.2	17.8	19.8
E13345	14.9	14.1		14.5	13.4	13.3	16.5
E13364	16.0	15.7		15.1	14.9	17.2	19.2
E13369	14.5	14.3		14.1	13.0	15.4	15.7
E13370	15.6	16.6		14.9	14.9	13.6	17.2
M09-263090	15.0	14.2		14.8	13.5	15.2	16.8
M09-263119	13.2	12.4		13.0	12.8	13.1	14.7
M09-264062	16.9	16.3		17.9	15.1	16.5	17.1
M09-278096	13.6	13.6		13.6	11.6	15.8	14.8
M09-278097	13.4	12.9		13.3	12.1	12.8	15.8
M09-281098	14.2	13.3		14.7	13.1	14.7	15.3

PRELIMINARY TEST IIA, 2015

SEED SIZE (g/100)

Strain	Waseca MN	Cotes-field NE	Hooper NE	Worms NE	Hoyt-ville OH	Wooster OH	Chatham ONT
IA2102 (II)	15.7	18.0	17.0		15.5	14.2	14.4
IA1022 (SCN)	15.0	17.0	16.0		15.4	14.0	16.3
IA3024	16.2	19.0	18.0		16.8	13.9	17.1
AR13-231017	16.8	19.0	19.0		17.7	15.9	16.0
AR13-232049	13.0	15.0	15.0		14.6	13.6	14.1
AR13-232106	14.3	17.0	16.0		13.6	12.8	14.9
AR14-248009	14.7	16.0	17.0		14.1	13.7	15.9
AR14-248020	17.5	18.0	19.0		15.5	14.8	17.4
E13100	20.5	20.0	20.0		19.4	17.0	21.0
E13126	14.5	16.0	16.0		15.2	13.3	16.1
E13132	14.7	17.0	16.0		14.3	12.7	16.3
E13139	15.5	17.0	18.0		14.7	15.1	16.2
E13212	18.0	19.0	19.0		18.9	17.0	17.6
E13268	15.0	17.0	16.0		14.2	13.2	16.1
E13298	17.5	18.0	19.0		15.7	15.7	17.4
E13345	15.0	16.0	17.0		14.2	13.2	16.3
E13364	15.9	17.0	17.0		14.7	13.1	16.7
E13369	16.3	15.0	15.0		14.0	11.6	14.7
E13370	14.2	18.0	17.0		15.3	13.7	16.2
M09-263090	14.3	17.0	17.0		14.4	12.4	15.3
M09-263119	12.8	15.0	14.0		12.7	11.0	14.1
M09-264062	17.2	19.0	18.0		16.6	15.4	16.9
M09-278096	13.8	15.0	14.0		12.9	11.4	13.5
M09-278097	13.3	15.0	15.0		12.4	11.5	13.3
M09-281098	13.7	15.0	15.0		14.5	12.0	14.6

PRELIMINARY TEST IIA, 2015

SEED QUALITY (score)

Strain	Mean 10 Tests	Ames IA	Boone County IA	Urbana IL	West Lafayette IN	Ingham County MI	Lamber-ton MN
IA2102 (II)	1.6	3.0		2.0	1.0		2.0
IA1022 (SCN)	1.8	3.0		2.0	1.5		2.0
IA3024	1.7	2.0		2.0	1.5		2.0
AR13-231017	1.8	2.0		2.0	1.0		3.0
AR13-232049	1.8	2.0		2.0	1.5		2.0
AR13-232106	1.5	1.0		3.0	1.0		2.0
AR14-248009	1.7	2.0		3.0	1.0		2.0
AR14-248020	1.5	2.0		2.0	1.0		2.0
E13100	1.7	1.0		3.0	1.0		2.0
E13126	1.9	2.0		3.0	1.5		2.0
E13132	1.6	2.0		2.0	1.0		2.0
E13139	1.7	2.0		2.0	1.5		2.0
E13212	1.8	2.0		2.0	1.5		3.0
E13268	1.7	2.0		2.0	1.5		2.0
E13298	1.7	2.0		2.0	1.5		2.0
E13345	1.7	2.0		2.0	1.0		2.0
E13364	1.7	2.0		1.0	1.0		2.0
E13369	1.5	2.0		2.0	1.0		2.0
E13370	1.6	1.0		2.0	1.0		2.0
M09-263090	1.6	2.0		2.0	1.0		2.0
M09-263119	1.6	2.0		2.0	1.0		2.0
M09-264062	1.6	2.0		2.0	1.0		2.0
M09-278096	1.5	2.0		1.0	1.0		2.0
M09-278097	1.6	2.0		2.0	1.0		2.0
M09-281098	1.6	2.0		2.0	1.0		2.0

PRELIMINARY TEST IIA, 2015

SEED QUALITY (score)

Strain	Waseca MN	Cotes-field NE	Hooper NE	Worms NE	Hoyt-ville OH	Wooster OH	Chatham ONT
IA2102 (II)	2.0	2.0	1.0		1.0	1.0	1.0
IA1022 (SCN)	2.0	2.0	2.0		1.0	1.0	1.0
IA3024	2.0	2.0	2.0		1.0	1.0	1.0
AR13-231017	2.0	3.0	2.0		1.0	1.0	1.0
AR13-232049	2.0	2.0	2.0		2.0	1.0	1.0
AR13-232106	1.0	2.0	2.0		1.0	1.0	1.0
AR14-248009	2.0	2.0	2.0		1.0	1.0	1.0
AR14-248020	1.0	2.0	2.0		1.0	1.0	1.0
E13100	2.0	2.0	2.0		2.0	1.0	1.0
E13126	2.0	3.0	2.0		1.0	1.0	1.0
E13132	2.0	2.0	2.0		1.0	1.0	1.0
E13139	2.0	2.0	2.0		1.0	1.0	1.0
E13212	2.0	2.0	2.0		1.0	1.0	1.0
E13268	2.0	2.0	2.0		1.0	1.0	1.0
E13298	2.0	2.0	2.0		1.0	1.0	1.0
E13345	2.0	3.0	2.0		1.0	1.0	1.0
E13364	2.0	3.0	2.0		1.0	2.0	1.0
E13369	2.0	2.0	1.0		1.0	1.0	1.0
E13370	2.0	2.0	2.0		1.0	2.0	1.0
M09-263090	2.0	2.0	2.0		1.0	1.0	1.0
M09-263119	2.0	2.0	2.0		1.0	1.0	1.0
M09-264062	2.0	2.0	2.0		1.0	1.0	1.0
M09-278096	2.0	2.0	2.0		1.0	1.0	1.0
M09-278097	2.0	2.0	2.0		1.0	1.0	1.0
M09-281098	2.0	2.0	2.0		1.0	1.0	1.0

PRELIMINARY TEST IIA, 2015

PROTEIN (%)

Strain	Mean 7 Tests	Urbana IL	West Lafayette IN	Cotes-field NE	Hooper NE	Hoytville OH	Wooster OH	Chatham ONT
IA2102 (II)	35.5	33.8	34.2	33.1	34.8	35.6	36.2	40.5
IA1022 (SCN)	33.5	32.5	32.3	31.9	32.1	33.8	34.5	37.5
IA3024	34.3	32.1	33.1	33.3	33.8	34.1	34.0	39.9
AR13-231017	35.7	33.8	35.3	33.9	34.8	35.8	35.4	40.7
AR13-232049	33.8	32.0	32.5	31.5	33.0	33.6	35.8	38.0
AR13-232106	35.4	34.3	33.9	33.5	35.4	33.8	37.1	40.1
AR14-248009	34.7	33.3	33.5	32.6	34.7	34.3	34.4	40.3
AR14-248020	34.7	32.5	33.3	33.1	34.7	34.1	35.2	39.9
E13100	35.2	35.4	34.0	32.8	33.2	35.4	36.0	39.4
E13126	35.0	33.7	34.0	33.3	34.0	35.1	34.5	40.2
E13132	34.9	33.8	33.7	33.3	34.5	34.3	35.1	39.7
E13139	35.9	34.1	35.2	33.7	35.5	36.0	35.9	41.2
E13212	36.2	35.1	35.4	34.2	35.5	36.3	35.9	40.8
E13268	34.3	32.8	33.0	32.0	33.1	34.3	35.7	39.0
E13298	35.3	33.8	33.8	33.8	34.7	34.9	36.1	40.0
E13345	34.9	33.7	33.7	32.9	35.4	33.3	35.1	40.1
E13364	35.6	33.5	35.1	33.7	35.3	35.4	35.4	41.1
E13369	35.0	33.1	33.8	33.3	34.2	35.0	35.7	39.8
E13370	35.4	33.0	34.3	33.5	34.4	35.7	36.0	40.5
M09-263090	35.2	33.1	33.9	34.1	34.8	34.4	35.9	40.4
M09-263119	34.9	32.2	33.5	33.7	34.3	34.9	35.9	40.2
M09-264062	36.4	35.5	34.9	34.6		36.5	36.6	40.6
M09-278096	33.1	31.0	32.1	31.0	32.5	33.1	33.6	38.1
M09-278097	33.1	30.9	32.3	30.9	31.7	33.2	34.5	38.2
M09-281098	33.8	32.1	33.3	31.4	33.0	33.9	34.0	39.2

PRELIMINARY TEST IIA, 2015

OIL (%)

Strain	Mean 7 Tests	Urbana IL	West Lafayette IN	Cotes-field NE	Hooper NE	Hoytville OH	Wooster OH	Chatham ONT
IA2102 (II)	19.5	19.8	19.8	19.2	18.8	18.7	18.9	21.0
IA1022 (SCN)	21.2	21.6	21.3	20.6	20.6	20.4	20.1	23.9
IA3024	20.4	20.9	20.8	19.7	19.7	20.0	19.7	22.0
AR13-231017	20.0	20.3	19.9	19.7	19.5	19.4	19.4	21.6
AR13-232049	19.8	20.3	20.2	19.8	19.5	19.0	18.4	21.7
AR13-232106	19.6	19.9	19.9	19.4	18.9	19.4	18.2	21.4
AR14-248009	19.4	19.2	19.7	19.4	19.0	18.6	18.9	21.3
AR14-248020	19.7	20.3	20.0	19.2	19.4	18.9	18.8	21.3
E13100	20.5	19.4	20.9	20.6	20.4	19.9	19.4	22.9
E13126	20.1	20.2	19.7	19.8	19.5	19.4	20.1	22.1
E13132	20.2	20.2	20.2	19.7	19.5	19.6	19.5	22.4
E13139	19.8	20.1	19.8	19.8	19.3	19.2	19.4	21.2
E13212	19.9	19.7	20.0	19.6	19.2	19.3	19.8	21.8
E13268	19.9	20.4	20.3	19.6	19.4	19.1	18.9	21.9
E13298	19.9	20.3	20.3	19.4	19.5	19.3	19.0	21.7
E13345	20.3	20.5	20.4	20.1	19.2	20.3	19.5	22.2
E13364	19.5	19.8	19.3	19.4	18.8	18.9	19.1	21.3
E13369	19.2	19.5	19.4	18.9	18.7	18.7	18.3	21.3
E13370	19.4	19.8	19.5	19.2	18.9	18.8	18.5	21.1
M09-263090	19.9	20.7	20.1	19.6	19.5	19.4	18.6	21.6
M09-263119	20.4	21.2	20.7	20.2	19.9	19.5	19.0	22.4
M09-264062	20.1	20.3	19.8	19.8		19.2	19.2	22.1
M09-278096	20.9	21.5	21.2	20.8	20.3	19.8	19.8	23.1
M09-278097	21.0	21.6	20.9	20.9	20.6	20.0	19.4	23.2
M09-281098	20.3	20.6	20.0	20.4	19.7	19.3	19.5	22.2

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PRELIMINARY TEST IIB, 2015

Ent.	Strain	Parentage	Seed Source	Gen. Comp.	Unique Traits
1	IA2102 (II)	A04-545045 x AgriPro 98180-A01-0613	Fehr	F4	
2.	IA1022 (SCN)	Dairyland 98822 x A00-711024	Fehr	F5	SCN
3.	IA3024	A97-553017 x Pioneer YB33A99	Fehr		1% Linolenic
4.	HM13-W155	HS7-6650 x OHS204	McHale	F4	
5.	LD12-300	LD06-2009 x LD06-7620	Diers	F5	
6.	MLG09-5302035		Orf	F5	
7.	MLG09-5431014		Orf	F5	Diversity
8.	MLG09-5431018		Orf	F5	Diversity
9.	ORC 3313N	Starfield x SC 2307	Eskandari	F5	SCN PI 88788
10.	ORC 8512N	HD Goshen x A04-543037	Eskandari	F5	SCN PI 88789
11.	U13-602142	U09-323109 x U09-312115	Graef	F5	Rps
12.	U13-603120	U09-323109 x U09-312115	Graef	F5	Rps
13.	U13-604147	U09-323109 x U09-312115	Graef	F5	Rps
14.	U13-605132	U09-323109 x U09-312115	Graef	F5	Rps
15.	U13-609144	U09-312115 x U03-260216	Graef	F5	Rps
16.	U13-612076	U09-233044 x U10-425065	Graef	F5	Rps,SCN
17.	U13-613037	U09-233044 x U09-312115	Graef	F5	Rps
18.	U13-618087	U03-260216 x U10-425065	Graef	F5	Rps, SCN
19.	U13-618123	U03-260216 x U10-425065	Graef	F5	Rps, SCN
20.	U13-908070	U09-215057 x U03-260216	Graef	F5	Rps
21.	U13-909086	U09-215057 x U03-260216	Graef	F5	Rps
22.	U13-910087	U09-233044 x U09-312115	Graef	F5	Rps
23.	U13-912040	U09-312115 x U10-425065	Graef	F5	Rps,SCN
24.	U13-914045	U07-402918 x U09-312115	Graef	F5	Rps
25.	U13-929048	U09-311114 x U10-425065	Graef	F5	Rps, SCN

PRELIMINARY TEST IIB, 2015

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	IDC Score Lamberton	IDC Score Waseca	Shattering Score Manhattan	SDS Data Ames DX Rank
IA2102 (II)	WGTTYYI	2.8	2.8	1.0	3.4
IA1022 (SCN)	PGTSYYI	4.0	4.0	2.0	0.0
IA3024	PGTSYDibI	2.5	2.5	1.0	41.7
HM13-W155	PGTIYDibI	3.5	3.5	1.0	2.7
LD12-300	WGTSYBfI	2.3	2.3	1.0	40.9
MLG09-5302035	PGTSYBfI	2.8	2.8	1.0	41.1
MLG09-5431014	WTBSYGI	2.3	2.3	2.0	1.4
MLG09-5431018	WTBSYGI	3.0	3.0	1.0	33.7
ORC 3313N	WGTIYYI	3.3	3.3	2.0	0.6
ORC 8512N	PGTSYYI	2.0	2.0	2.0	2.8
U13-602142	PTBIYBI	3.0	3.0	1.0	25.9
U13-603120	PTBSYBI	1.5	1.5	1.0	33.1
U13-604147	PTBSYBI	2.0	2.0	1.0	20.3
U13-605132	PTBSYBI	2.3	2.3	1.0	18.4
U13-609144	PTBIYBI	4.5	4.5	1.0	22.5
U13-612076	PTBDYBI	3.0	3.0	3.0	9.5
U13-613037	PTBIYBI	2.5	2.5	3.0	23.4
U13-618087	PTBIYBI	3.5	3.5	2.0	53.4
U13-618123	PGTIYBfI	1.3	1.3	1.0	32.2
U13-908070	WTTSYBrI	3.0	3.0	2.0	22.8
U13-909086	WT+GB+TIYLbfI	2.0	2.0	2.0	20.9
U13-910087	PTTSYBI	3.3	3.3	1.0	28.3
U13-912040	PTBIYBI	3.3	3.3	1.0	30.0
U13-914045	PTBSYBI	4.0	4.0	1.0	28.6
U13-929048	WT+GB+TIYBI	4.5	4.5	1.0	11.3

PRELIMINARY TEST IIB, 2015

REGIONAL SUMMARY

No. of Tests Strain	Yield 13 bu/a	Rank 13 No.	Maturity 11 Date	Lodging 10 Score	Plant Height 11 In.	Seed Size 11 g/100	Seed Quality 10 Score	Composition Protein 7 %	 Oil 7 %
IA2102 (II)	70.1	1	9/24	1.7	34	16.2	1.6	35.3	19.5
IA1022 (SCN)	59.7	24	-3.4	1.7	31	15.2	1.7	33.3	21.3
IA3024	68.1	5	2.1	1.3	35	16.5	1.4	34.2	20.5
HM13-W155	66.0	14	2.6	1.4	34	18.5	1.5	35.5	20.1
LD12-300	67.2	8	-0.2	1.4	32	15.1	1.5	33.7	19.8
MLG09-5302035	61.8	22	-2.4	1.3	32	13.6	1.5	35.8	19.7
MLG09-5431014	62.3	21	-2.5	1.4	33	15.4	1.4	34.8	20.3
MLG09-5431018	61.8	22	-3.6	1.8	34	15.3	1.6	35.1	20.6
ORC 3313N	59.7	24	-4.9	1.4	35	19.4	1.8	36.5	19.9
ORC 8512N	63.2	19	-2.7	1.7	34	16.6	1.4	34.6	19.6
U13-602142	66.2	12	2.9	1.5	36	14.6	1.5	34.7	20.3
U13-603120	68.7	2	4.1	1.4	36	14.6	1.6	34.5	20.2
U13-604147	68.5	3	2.8	1.4	35	13.6	1.5	34.4	20.3
U13-605132	67.2	8	4.3	1.4	36	14.3	1.5	33.8	20.6
U13-609144	68.5	3	2.9	1.7	34	13.3	1.3	33.6	20.7
U13-612076	67.3	7	4.9	1.9	44	15.4	1.5	34.5	20.4
U13-613037	66.4	11	4.2	1.4	35	14.7	1.7	33.3	20.6
U13-618087	63.1	20	3.1	1.6	33	15.2	1.6	34.5	20.1
U13-618123	67.6	6	6.7	1.5	36	16.0	1.7	35.0	20.3
U13-908070	67.1	10	2.3	1.3	35	15.1	1.3	35.0	19.5
U13-909086	63.3	18	1.6	1.5	35	14.4	1.4	34.9	19.8
U13-910087	66.1	13	2.8	1.3	35	14.4	1.4	33.9	20.6
U13-912040	64.6	17	1.6	1.3	38	14.6	1.3	34.5	20.5
U13-914045	64.9	16	4.1	1.4	35	15.2	1.4	34.4	19.8
U13-929048	65.0	15	1.9	1.4	38	16.3	1.5	35.1	20.2
Mean	66.2			1.5	35.9	16.2	1.7		
C.V. (%)	23.1			47.6	18.0	10.3	31.0		
L.S.D. (5%)	8.8			0.5	3.8	1.1	0.5		

127.4 Days After Planting

PRELIMINARY TEST IIB, 2015

YIELD (bu/a)

Strain	Mean 13 Tests	Ames IA	Boone County IA	Urbana IL	West Lafayette IN	Ingham County MI	Lamber-ton MN
IA2102 (II)	70.1	45.0	67.7	60.3	50.8	54.5	57.9
IA1022 (SCN)	59.7	37.5	67.0	61.4	38.6	56.9	62.0
IA3024	68.1	37.6	65.6	68.7	56.0	46.3	43.6
HM13-W155	66.0	47.8	61.2	64.4	64.8	60.3	40.1
LD12-300	67.2	49.6	64.3	61.1	62.0	62.0	64.4
MLG09-5302035	61.8	38.4	67.1	56.5	49.2	54.0	56.3
MLG09-5431014	62.3	49.0	60.5	59.8	50.3	50.6	59.6
MLG09-5431018	61.8	44.2	61.7	51.1	45.6	59.3	60.2
ORC 3313N	59.7	49.1	64.0	57.5	40.0	55.5	47.8
ORC 8512N	63.2	50.4	62.9	66.4	43.4	56.8	45.4
U13-602142	66.2	46.4	65.2	68.4	54.1	61.1	37.4
U13-603120	68.7	49.3	68.5	68.2	59.0	61.9	44.2
U13-604147	68.5	47.3	66.5	69.4	56.0	64.2	49.7
U13-605132	67.2	50.9	62.7	73.1	53.3	55.3	37.4
U13-609144	68.5	46.1	69.3	70.8	56.4	53.4	58.6
U13-612076	67.3	49.9	59.2	69.4	65.6	67.7	44.7
U13-613037	66.4	49.3	66.1	61.2	51.2	51.1	41.9
U13-618087	63.1	32.5	64.6	68.8	55.1	57.4	50.2
U13-618123	67.6	45.5	66.5	68.3	53.5	59.5	52.6
U13-908070	67.1	57.2	65.5	65.1	51.6	59.9	46.2
U13-909086	63.3	51.9	63.3	65.5	54.4	51.1	60.0
U13-910087	66.1	48.2	68.3	69.6	44.2	66.5	46.5
U13-912040	64.6	42.5	61.2	65.3	55.8	61.4	41.2
U13-914045	64.9	42.0	62.5	67.6	56.5	53.9	42.2
U13-929048	65.0	51.5	62.3	68.1	58.1	67.3	43.8
Location Mean		47.8	64.6	66.4	54.1	57.4	46.5
C.V. (%)		12.5	6.3	7.9	13.4	8.8	14.1
L.S.D. (5%)		12.0	8.4	8.8	8.4	12.8	14.3
Row Sp. (In.)		30	30	30	30	15	30
Rows/Plot		4	4	4	4	6	4
Reps		2	2	2	2	2	2

PRELIMINARY TEST IIB, 2015

YIELD (bu/a)

Strain	Waseca MN	Cotes-field NE	Hooper NE	Worms NE	Hoyt-ville OH	Wooster OH	Chatham ONT
IA2102 (II)	66.3	98.0	84.5	96.8	77.9	71.8	79.2
IA1022 (SCN)	51.8	79.4	74.3	61.7	69.6	68.7	47.5
IA3024	52.1	98.0	80.8	103.1	81.8	74.2	77.4
HM13-W155	53.8	93.4	82.3	78.3	72.5	64.3	75.4
LD12-300	48.9	84.1	79.5	89.1	78.7	65.7	64.6
MLG09-5302035	57.5	88.1	73.3	67.1	73.7	63.9	57.9
MLG09-5431014	47.5	89.9	72.7	79.6	63.8	66.1	60.6
MLG09-5431018	52.2	87.3	76.8	70.6	69.1	66.1	59.0
ORC 3313N	47.4	86.4	78.6	67.7	64.6	55.6	62.4
ORC 8512N	58.9	93.1	68.7	82.3	59.9	66.6	66.9
U13-602142	53.5	96.4	77.9	81.2	76.1	77.8	64.9
U13-603120	59.7	97.7	80.2	88.0	78.1	73.5	64.8
U13-604147	56.7	88.5	80.2	87.2	74.2	75.3	75.8
U13-605132	56.7	92.6	83.1	94.7	71.9	68.8	72.8
U13-609144	48.2	95.3	81.0	102.0	73.8	67.8	67.4
U13-612076	51.7	98.8	64.7	84.5	72.7	72.4	73.5
U13-613037	55.8	93.6	74.3	87.6	80.4	72.4	78.1
U13-618087	41.5	99.1	74.3	86.4	66.3	68.6	56.1
U13-618123	56.4	85.1	82.8	83.0	72.8	80.1	72.9
U13-908070	56.8	100.3	78.0	84.2	75.3	72.4	60.3
U13-909086	46.9	94.1	81.6	74.3	68.4	53.5	58.5
U13-910087	45.7	92.2	92.8	88.5	68.8	70.5	57.8
U13-912040	54.4	90.4	77.7	85.1	71.1	68.9	64.9
U13-914045	41.4	95.0	75.7	87.6	81.3	67.3	71.3
U13-929048	53.3	94.1	73.8	75.9	57.1	69.8	70.6
Location Mean	53.3	93.4	78.0	84.5	72.7	68.8	64.9
C.V. (%)	13.0	6.1	10.2	10.0	13.3	6.5	10.7
L.S.D. (5%)	13.7	14.3	20.2	21.4	19.8	9.2	7.1
Row Sp. (In.)	30	30	34	30	7.5	7.5	17
Rows/Plot	4	4	4	4	8	8	5
Reps	2	2	2	2	2	2	2

PRELIMINARY TEST IIB, 2015

YIELD RANK

Strain	Yield Rank	Ames IA	Boone County IA	Urbana IL	West Lafayette IN	Ingham County MI	Lamber-ton MN
IA2102 (II)	1	18	4	21	18	18	7
IA1022 (SCN)	24	24	6	18	25	14	2
IA3024	5	23	10	7	8	25	19
HM13-W155	14	13	23	17	2	9	23
LD12-300	8	7	14	20	3	5	1
MLG09-5302035	22	22	5	24	20	19	8
MLG09-5431014	21	11	24	22	19	24	5
MLG09-5431018	22	19	21	25	21	12	3
ORC 3313N	24	10	15	23	24	16	12
ORC 8512N	19	5	17	13	23	15	15
U13-602142	12	15	12	8	13	8	24
U13-603120	2	9	2	10	4	6	17
U13-604147	3	14	7	4	8	4	11
U13-605132	8	4	18	1	15	17	24
U13-609144	3	16	1	2	7	21	6
U13-612076	7	6	25	4	1	1	16
U13-613037	11	8	9	19	17	22	21
U13-618087	20	25	13	6	11	13	10
U13-618123	6	17	8	9	14	11	9
U13-908070	10	1	11	16	16	10	14
U13-909086	18	2	16	14	12	23	4
U13-910087	13	12	3	3	22	3	13
U13-912040	17	20	22	15	10	7	22
U13-914045	16	21	19	12	6	20	20
U13-929048	15	3	20	11	5	2	18

PRELIMINARY TEST IIB, 2015

YIELD RANK

Strain	Waseca MN	Cotes-field NE	Hooper NE	Worms NE	Hoyt-ville OH	Wooster OH	Chatham ONT
IA2102 (II)	1	4	2		6	7	1
IA1022 (SCN)	16	25	18		17	12	25
IA3024	15	4	8		1	4	3
HM13-W155	11	13	5		14	19	5
LD12-300	18	24	11		4	18	16
MLG09-5302035	4	20	22		11	20	22
MLG09-5431014	20	18	23		23	17	18
MLG09-5431018	14	21	16		18	17	20
ORC 3313N	21	22	12		22	21	17
ORC 8512N	3	14	24		24	16	12
U13-602142	12	7	14		7	2	14
U13-603120	2	6	9		5	5	15
U13-604147	6	19	9		9	3	4
U13-605132	6	15	3		15	11	8
U13-609144	19	8	7		10	14	11
U13-612076	17	3	25		13	6	6
U13-613037	9	12	18		3	6	2
U13-618087	24	2	18		21	13	24
U13-618123	8	23	4		12	1	7
U13-908070	5	1	13		8	6	19
U13-909086	22	10	6		20	22	21
U13-910087	23	16	1		19	8	23
U13-912040	10	17	15		16	10	13
U13-914045	25	9	17		2	15	9
U13-929048	13	10	21		25	9	10

PRELIMINARY TEST IIB, 2015

MATURITY (date)

Strain	Mean 11 Tests	Ames IA	Boone County IA	Urbana IL	West Lafayette IN	Ingham County MI	Lamber-ton MN
IA2102 (II)	9/24	10/7	9/24	9/4	9/18	9/25	10/9
IA1022 (SCN)	-3	-11	-4	-4	0	0	-7
IA3024	2	-10	5	9	2	3	1
HM13-W155	3	-9	5	7	4	2	-2
LD12-300	-0	-10	5	1	3	1	-1
MLG09-5302035	-2	-15	2	0	0	3	-10
MLG09-5431014	-3	-5	-3	0	1	1	-12
MLG09-5431018	-4	-7	-3	-2	0	2	-10
ORC 3313N	-5	-8	-4	-2	-6	-2	-15
ORC 8512N	-3	-12	1	-1	2	3	-7
U13-602142	3	-15	6	9	8	4	-2
U13-603120	4	-15	6	10	7	6	0
U13-604147	3	-17	6	7	7	6	-3
U13-605132	4	-7	7	9	6	6	-2
U13-609144	3	-10	6	8	5	3	-1
U13-612076	5	-12	9	10	5	6	0
U13-613037	4	-2	7	8	9	4	-3
U13-618087	3	-11	8	9	7	4	-2
U13-618123	7	-7	9	13	9	6	0
U13-908070	2	-7	5	7	4	5	-6
U13-909086	2	-9	3	5	3	2	0
U13-910087	3	-12	6	8	6	4	-4
U13-912040	2	-13	4	9	6	5	-3
U13-914045	4	-9	8	10	8	6	-3
U13-929048	2	-9	5	8	5	6	-5
Date Planted	5/19	5/23	5/13	5/14	5/27	5/22	5/20
Days to Mature	127.4	137	134	113	114	126	142

PRELIMINARY TEST IIB, 2015

MATURITY (date)

Strain	Waseca MN	Cotes-field NE	Hooper NE	Worms NE	Hoyt-ville OH	Wooster OH	Chatham ONT
IA2102 (II)	10/3		9/23		9/19	9/11	10/2
IA1022 (SCN)	-2		-3		-4	-3	0
IA3024	2		2		7	10	-9
HM13-W155	1		2		6	8	3
LD12-300	2		-2		2	-1	0
MLG09-5302035	-3		-2		0	2	-3
MLG09-5431014	-6		-2		-2	1	0
MLG09-5431018	-4		-3		-1	2	-15
ORC 3313N	-11		-4		-3	0	0
ORC 8512N	0		-1		-1	-1	-10
U13-602142	4		7		7	10	-5
U13-603120	2		8		8	9	-3
U13-604147	2		5		9	11	-3
U13-605132	3		8		7	9	0
U13-609144	2		6		8	9	-6
U13-612076	4		9		6	12	0
U13-613037	2		7		10	10	-8
U13-618087	2		5		8	9	-7
U13-618123	5		7		8	13	3
U13-908070	2		3		3	9	0
U13-909086	1		1		5	7	-3
U13-910087	2		4		5	9	3
U13-912040	2		3		8	8	-12
U13-914045	2		5		9	12	-5
U13-929048	3		1		5	9	-6
Date Planted	5/13		5/30		5/22	5/13	5/22
Days to Mature	143		116		120	121	133

PRELIMINARY TEST IIB, 2015

LODGING (score)

Strain	Mean 10 Tests	Ames IA	Boone County IA	Urbana IL	West Lafayette IN	Ingham County MI	Lamber-ton MN
IA2102 (II)	1.7	2.8	2.5	1.8	1.0	1.0	
IA1022 (SCN)	1.7	2.5	3.0	1.3	1.0	1.0	
IA3024	1.3	2.5	1.0	1.0	1.0	1.0	
HM13-W155	1.4	2.5	2.0	1.3	1.0	1.0	
LD12-300	1.4	2.5	2.0	1.0	1.0	1.0	
MLG09-5302035	1.3	2.0	1.0	1.0	1.0	1.0	
MLG09-5431014	1.4	2.5	1.5	1.3	1.0	1.0	
MLG09-5431018	1.8	3.0	3.0	1.5	1.0	1.0	
ORC 3313N	1.4	2.5	1.5	1.0	1.0	1.0	
ORC 8512N	1.7	3.0	2.0	2.0	1.0	2.0	
U13-602142	1.5	2.0	1.5	1.6	1.0	2.5	
U13-603120	1.4	2.0	1.0	1.8	1.0	1.0	
U13-604147	1.4	2.3	1.0	1.3	1.0	1.0	
U13-605132	1.4	2.5	1.0	1.8	1.0	1.5	
U13-609144	1.7	2.5	2.5	1.5	1.3	2.5	
U13-612076	1.9	3.0	2.0	2.5	1.0	2.5	
U13-613037	1.4	2.0	1.5	1.5	1.0	1.0	
U13-618087	1.6	2.5	2.0	1.5	1.0	2.0	
U13-618123	1.5	2.0	1.5	1.5	1.0	2.5	
U13-908070	1.3	2.3	1.0	1.3	1.0	1.5	
U13-909086	1.5	2.3	2.0	1.5	1.0	1.5	
U13-910087	1.3	2.3	1.0	1.0	1.0	1.0	
U13-912040	1.3	2.5	1.5	1.3	1.0	1.0	
U13-914045	1.4	1.8	1.5	1.3	1.0	1.5	
U13-929048	1.4	2.0	2.0	1.3	1.0	1.5	

PRELIMINARY TEST IIB, 2015

LODGING (score)

Strain	Waseca MN	Cotes-field NE	Hooper NE	Worms NE	Hoyt-ville OH	Wooster OH	Chatham ONT
IA2102 (II)	3.0		1.5		1.0	1.5	1.0
IA1022 (SCN)	3.0		2.0		1.0	1.0	1.0
IA3024	2.5		1.0		1.0	1.0	1.0
HM13-W155	2.0		1.0		1.0	1.0	1.0
LD12-300	2.5		1.0		1.0	1.0	1.0
MLG09-5302035	2.5		1.0		1.0	1.0	1.0
MLG09-5431014	2.0		1.5		1.0	1.0	1.0
MLG09-5431018	3.5		1.5		1.0	1.0	1.0
ORC 3313N	3.0		1.0		1.0	1.0	1.0
ORC 8512N	3.0		1.0		1.0	1.0	1.0
U13-602142	2.5		1.0		1.0	1.0	1.0
U13-603120	3.0		1.0		1.0	1.0	1.0
U13-604147	3.0		1.0		1.0	1.0	1.0
U13-605132	2.5		1.0		1.0	1.0	1.0
U13-609144	2.5		1.0		1.0	1.0	1.0
U13-612076	2.0		2.0		1.0	2.0	1.0
U13-613037	3.0		1.0		1.0	1.0	1.0
U13-618087	2.5		1.0		1.0	1.0	1.0
U13-618123	2.0		1.0		1.0	1.0	1.0
U13-908070	2.0		1.0		1.0	1.0	1.0
U13-909086	3.0		1.0		1.0	1.0	1.0
U13-910087	3.0		1.0		1.0	1.0	1.0
U13-912040	2.0		1.0		1.0	1.0	1.0
U13-914045	3.0		1.0		1.0	1.0	1.0
U13-929048	2.5		1.0		1.0	1.0	1.0

PRELIMINARY TEST IIB, 2015

PLANT HEIGHT (inches)

Strain	Mean 11 Tests	Ames IA	Boone County IA	Urbana IL	West Lafayette IN	Ingham County MI	Lamber-ton MN
IA2102 (II)	34	37	40	34	22	26	42
IA1022 (SCN)	31	31	38	31	17	22	39
IA3024	35	37	38	34	23	25	43
HM13-W155	34	34	40	31	25	24	42
LD12-300	32	35	39	30	23	25	40
MLG09-5302035	32	37	38	30	20	23	38
MLG09-5431014	33	37	37	31	20	26	40
MLG09-5431018	34	37	43	30	23	27	44
ORC 3313N	35	37	41	36	24	27	39
ORC 8512N	34	39	40	33	21	26	43
U13-602142	36	40	43	34	23	33	43
U13-603120	36	39	42	37	26	32	44
U13-604147	35	38	43	35	21	29	40
U13-605132	36	37	42	37	25	31	44
U13-609144	34	35	41	35	24	28	41
U13-612076	44	51	53	44	29	38	47
U13-613037	35	40	40	39	25	27	40
U13-618087	33	35	36	33	24	30	39
U13-618123	36	40	39	35	24	34	43
U13-908070	35	40	39	32	22	31	40
U13-909086	35	39	41	34	24	30	41
U13-910087	35	39	40	34	24	31	41
U13-912040	38	43	41	39	24	35	45
U13-914045	35	38	39	35	25	31	41
U13-929048	38	41	46	36	24	33	46

PRELIMINARY TEST IIB, 2015

PLANT HEIGHT (inches)

Strain	Waseca MN	Cotes-field NE	Hooper NE	Worms NE	Hoyt-ville OH	Wooster OH	Chatham ONT
IA2102 (II)	41		41		28	38	31
IA1022 (SCN)	39		36		26	37	27
IA3024	43		40		29	37	34
HM13-W155	41		37		28	36	32
LD12-300	41		35		28	34	26
MLG09-5302035	40		35		26	35	27
MLG09-5431014	40		40		24	36	28
MLG09-5431018	44		41		27	38	24
ORC 3313N	39		44		27	40	32
ORC 8512N	43		42		23	37	29
U13-602142	45		43		29	40	28
U13-603120	43		41		28	37	28
U13-604147	40		42		27	37	29
U13-605132	46		41		28	36	31
U13-609144	40		40		26	34	27
U13-612076	54		54		34	49	34
U13-613037	41		40		27	36	30
U13-618087	39		39		26	36	24
U13-618123	45		42		30	38	30
U13-908070	45		38		29	39	29
U13-909086	43		40		26	36	29
U13-910087	45		39		28	36	27
U13-912040	46		45		29	40	30
U13-914045	40		39		33	37	29
U13-929048	45		43		26	39	34

PRELIMINARY TEST IIB, 2015

SEED SIZE (g/100)

Strain	Mean 11 Tests	Ames IA	Boone County IA	Urbana IL	West Lafayette IN	Ingham County MI	Lamber-ton MN
IA2102 (II)	16.2	13.1		16.6	15.7	17.3	17.2
IA1022 (SCN)	15.2	10.7		15.9	15.2	15.9	15.8
IA3024	16.5	14.1		17.2	15.4	15.9	18.5
HM13-W155	18.5	16.8		20.8	17.6	15.1	20.2
LD12-300	15.1	11.1		16.4	15.1	15.4	16.5
MLG09-5302035	13.6	10.8		13.2	12.3	13.8	15.1
MLG09-5431014	15.4	13.4		16.7	13.8	16.0	16.2
MLG09-5431018	15.3	11.1		16.0	13.6	16.6	16.6
ORC 3313N	19.4	17.7		21.8	20.3	15.8	18.5
ORC 8512N	16.6	14.1		17.0	15.7	17.7	17.3
U13-602142	14.6	12.0		15.0	13.1	13.6	16.1
U13-603120	14.6	12.9		13.9	12.8	16.7	15.7
U13-604147	13.6	10.1		14.3	8.1	14.9	16.3
U13-605132	14.3	10.9		15.1	12.8	15.4	15.8
U13-609144	13.3	10.5		13.8	12.5	12.6	15.2
U13-612076	15.4	13.3		15.8	13.5	14.9	16.0
U13-613037	14.7	12.3		15.7	13.4	12.9	14.9
U13-618087	15.2	11.1		16.6	14.2	14.2	15.0
U13-618123	16.0	11.7		16.4	10.9	16.5	18.2
U13-908070	15.1	13.1		15.7	14.8	14.3	15.8
U13-909086	14.4	11.1		15.1	13.3	14.0	16.5
U13-910087	14.4	11.9		15.5	12.7	14.5	16.8
U13-912040	14.6	11.7		14.4	14.0	15.0	16.8
U13-914045	15.2	12.1		15.2	12.4	15.1	17.2
U13-929048	16.3	15.7		17.1	14.6	16.9	17.1

PRELIMINARY TEST IIB, 2015

SEED SIZE (g/100)

Strain	Waseca MN	Cotes-field NE	Hooper NE	Worms NE	Hoyt-ville OH	Wooster OH	Chatham ONT
IA2102 (II)	16.2	17.0	17.0		14.9	14.6	18.2
IA1022 (SCN)	15.4	17.0	16.0		15.3	13.8	15.8
IA3024	17.4	18.0	17.0		14.4	15.6	18.5
HM13-W155	19.6	21.0	20.0		18.0	16.4	18.3
LD12-300	15.7	16.0	16.0		15.4	13.4	15.0
MLG09-5302035	15.2	15.0	15.0		13.1	12.5	13.4
MLG09-5431014	15.8	16.0	17.0		14.3	14.2	15.8
MLG09-5431018	16.1	17.0	17.0		14.5	13.8	16.0
ORC 3313N	20.3	21.0	22.0		20.1	18.5	17.2
ORC 8512N	15.6	18.0	17.0		16.9	13.5	19.5
U13-602142	15.6	16.0	16.0		13.2	14.7	15.0
U13-603120	15.5	16.0	16.0		13.1	14.2	14.1
U13-604147	14.9	15.0	16.0		12.8	13.4	14.3
U13-605132	15.2	16.0	16.0		12.5	13.8	13.7
U13-609144	14.4	15.0	15.0		11.4	12.8	13.3
U13-612076	16.4	17.0	17.0		14.5	15.1	16.1
U13-613037	16.6	16.0	17.0		13.2	14.2	15.3
U13-618087	16.7	18.0	17.0		15.1	16.3	12.9
U13-618123	18.6	17.0	19.0		15.7	16.8	15.6
U13-908070	15.6	17.0	17.0		14.6	15.1	13.5
U13-909086	15.3	17.0	16.0		14.2	13.2	13.1
U13-910087	15.5	15.0	16.0		12.8	13.7	14.5
U13-912040	15.7	16.0	16.0		14.2	13.6	13.8
U13-914045	16.2	17.0	17.0		13.6	15.6	15.6
U13-929048	17.2	18.0	17.0		14.3	15.4	16.3

PRELIMINARY TEST IIB, 2015

SEED QUALITY (score)

Strain	Mean 10 Tests	Ames IA	Boone County IA	Urbana IL	West Lafayette IN	Ingham County MI	Lamber-ton MN
IA2102 (II)	1.6	2.0		2.0	1.0		2.0
IA1022 (SCN)	1.7	2.0		2.0	1.5		2.0
IA3024	1.4	1.0		1.0	1.0		2.0
HM13-W155	1.5	2.0		2.0	1.0		2.0
LD12-300	1.5	1.0		2.0	1.0		2.0
MLG09-5302035	1.5	1.0		2.0	1.0		2.0
MLG09-5431014	1.4	1.0		1.0	1.0		2.0
MLG09-5431018	1.6	2.0		2.0	1.0		2.0
ORC 3313N	1.8	2.0		3.0	1.5		2.0
ORC 8512N	1.4	1.0		2.0	1.0		2.0
U13-602142	1.5	1.0		2.0	1.0		2.0
U13-603120	1.6	2.0		2.0	1.0		2.0
U13-604147	1.5	1.0		2.0	1.0		2.0
U13-605132	1.5	1.0		1.0	1.0		3.0
U13-609144	1.3	1.0		1.0	1.0		2.0
U13-612076	1.5	1.0		2.0	1.0		2.0
U13-613037	1.7	1.0		2.0	1.0		3.0
U13-618087	1.6	2.0		2.0	1.0		2.0
U13-618123	1.7	2.0		2.0	1.0		3.0
U13-908070	1.3	1.0		1.0	1.0		2.0
U13-909086	1.4	2.0		1.0	1.0		1.0
U13-910087	1.4	1.0		1.0	1.0		2.0
U13-912040	1.3	1.0		1.0	1.0		1.0
U13-914045	1.4	1.0		2.0	1.0		2.0
U13-929048	1.5	1.0		2.0	1.0		2.0

PRELIMINARY TEST IIB, 2015

SEED QUALITY (score)

Strain	Waseca MN	Cotes-field NE	Hooper NE	Worms NE	Hoyt-ville OH	Wooster OH	Chatham ONT
IA2102 (II)	2.0	2.0	2.0		1.0	1.0	1.0
IA1022 (SCN)	2.0	2.0	2.0		1.0	1.0	1.0
IA3024	2.0	2.0	2.0		1.0	1.0	1.0
HM13-W155	2.0	2.0	1.0		1.0	1.0	1.0
LD12-300	2.0	2.0	2.0		1.0	1.0	1.0
MLG09-5302035	2.0	2.0	2.0		1.0	1.0	1.0
MLG09-5431014	2.0	2.0	2.0		1.0	1.0	1.0
MLG09-5431018	2.0	2.0	2.0		1.0	1.0	1.0
ORC 3313N	2.0	2.0	2.0		1.0	1.0	1.0
ORC 8512N	2.0	2.0	1.0		1.0	1.0	1.0
U13-602142	2.0	2.0	2.0		1.0	1.0	1.0
U13-603120	2.0	2.0	2.0		1.0	1.0	1.0
U13-604147	2.0	2.0	2.0		1.0	1.0	1.0
U13-605132	2.0	2.0	2.0		1.0	1.0	1.0
U13-609144	2.0	2.0	1.0		1.0	1.0	1.0
U13-612076	2.0	2.0	2.0		1.0	1.0	1.0
U13-613037	2.0	2.0	2.0		1.0	2.0	1.0
U13-618087	2.0	2.0	2.0		1.0	1.0	1.0
U13-618123	2.0	2.0	2.0		1.0	1.0	1.0
U13-908070	2.0	2.0	1.0		1.0	1.0	1.0
U13-909086	2.0	2.0	2.0		1.0	1.0	1.0
U13-910087	2.0	2.0	2.0		1.0	1.0	1.0
U13-912040	2.0	2.0	2.0		1.0	1.0	1.0
U13-914045	2.0	2.0	1.0		1.0	1.0	1.0
U13-929048	2.0	2.0	2.0		1.0	1.0	1.0

PRELIMINARY TEST IIB, 2015

PROTEIN (%)

Strain	Mean 7 Tests	Urbana IL	West Lafayette IN	Cotes-field NE	Hooper NE	Hoytville OH	Wooster OH	Chatham ONT
IA2102 (II)	35.3	34.2	34.5	33.0	34.5	35.4	36.1	39.7
IA1022 (SCN)	33.3	32.5	33.0	31.4	32.3	32.1	33.8	38.1
IA3024	34.2	32.7	32.8	33.2	32.9	34.3	34.1	39.3
HM13-W155	35.5	34.0	34.4	33.0	35.1	35.4	36.0	40.5
LD12-300	33.7	32.9	33.4	31.3	33.1	33.7	34.0	37.8
MLG09-5302035	35.8	34.2	35.6	33.1	35.3	35.8	35.5	40.9
MLG09-5431014	34.8	33.2	34.1	32.2	33.8	33.9	36.1	40.1
MLG09-5431018	35.1	33.0	33.9	33.5	34.5	34.6	35.8	40.3
ORC 3313N	36.5	36.0	35.5	35.1	35.0	36.3	37.1	40.2
ORC 8512N	34.6	32.5	33.7	34.0	34.0	34.3	34.8	39.1
U13-602142	34.7	33.3	33.6	33.1	34.9	34.2	34.5	39.2
U13-603120	34.5	32.8	32.9	33.5	34.2	33.9	34.3	39.7
U13-604147	34.4	32.7	33.1	33.0	34.0	34.5	33.7	39.8
U13-605132	33.8	31.6	32.3	31.9	34.5	34.7	33.5	38.4
U13-609144	33.6	31.5	32.4	31.9	34.0	33.3	33.4	38.6
U13-612076	34.5	33.2	33.2	33.2	34.1	33.8	33.9	39.8
U13-613037	33.3	31.0	31.9	31.7	34.1	33.3	33.2	37.7
U13-618087	34.5	32.5	33.7	33.2	33.4	34.5	34.5	39.7
U13-618123	35.0	32.7	34.0	34.0	34.9	34.9	34.2	40.5
U13-908070	35.0	33.4	33.8	33.6	34.7	34.9	35.0	39.8
U13-909086	34.9	33.0	33.4	33.5	34.3	34.2	35.8	39.9
U13-910087	33.9	32.3	32.2	31.9	33.8	34.1	34.2	39.0
U13-912040	34.5	33.0	33.9	32.8	33.9	34.7	34.1	39.0
U13-914045	34.4	32.5	33.5	33.2	34.2	34.0	34.1	39.4
U13-929048	35.1	33.5	33.8	33.3	34.8	34.6	35.0	40.5

PRELIMINARY TEST IIB, 2015

OIL (%)

Strain	Mean 7 Tests	Urbana IL	West Lafayette IN	Cotes-field NE	Hooper NE	Hoytville OH	Wooster OH	Chatham ONT
IA2102 (II)	19.5	19.6	19.6	19.3	19.2	18.6	18.5	21.8
IA1022 (SCN)	21.3	21.6	21.0	20.9	20.7	21.0	20.3	23.8
IA3024	20.5	20.8	20.7	19.7	20.0	19.9	19.9	22.6
HM13-W155	20.1	20.1	20.4	19.8	19.3	19.5	19.2	22.1
LD12-300	19.8	19.8	19.6	19.7	19.0	19.1	19.0	22.1
MLG09-5302035	19.7	20.0	19.3	20.0	18.8	19.0	19.3	21.9
MLG09-5431014	20.3	20.8	20.1	20.3	19.6	19.7	18.9	22.9
MLG09-5431018	20.6	21.0	20.3	20.2	19.9	19.9	19.7	23.1
ORC 3313N	19.9	19.7	19.9	19.5	19.7	19.4	18.7	22.3
ORC 8512N	19.6	20.0	19.5	19.0	18.8	19.2	18.3	22.3
U13-602142	20.3	20.7	20.3	19.7	19.5	19.5	19.8	22.7
U13-603120	20.2	20.6	20.2	19.6	19.3	19.6	19.9	22.1
U13-604147	20.3	20.5	20.4	19.7	19.7	19.7	19.9	22.3
U13-605132	20.6	21.0	20.6	20.2	19.6	19.2	20.3	23.0
U13-609144	20.7	21.0	21.0	20.0	19.6	19.7	20.4	23.3
U13-612076	20.4	20.6	20.4	19.7	19.5	20.0	20.3	22.4
U13-613037	20.6	21.1	20.4	20.2	19.7	19.6	20.2	22.8
U13-618087	20.1	20.6	20.1	19.4	19.6	19.5	20.0	21.9
U13-618123	20.3	20.9	20.2	19.7	19.5	19.7	20.4	21.9
U13-908070	19.5	19.9	19.5	18.9	18.7	18.9	19.4	21.3
U13-909086	19.8	20.2	20.1	19.5	19.3	19.3	18.8	21.5
U13-910087	20.6	21.1	20.9	20.3	19.9	19.8	20.0	22.2
U13-912040	20.5	20.7	20.0	20.2	20.0	19.6	20.2	23.0
U13-914045	19.8	20.4	19.6	19.5	19.3	18.9	19.4	21.7
U13-929048	20.2	20.4	20.3	20.1	19.2	19.7	19.6	21.9

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UNIFORM TEST III, 2015

Ent.	Strain	Parentage	Seed Source	Previous Testing	Gen. Comp.	Unique Traits
1	IA3023 (III)	Dairyland DSR-365 x Pioneer P9381	Fehr	14	F5	
2.	IA3024	A97-553017 x Pioneer YB33A99	Fehr	8		1% Linolenic
3.	IA3048 (SCN)	Dairyland 99540 x IA2068	Fehr	7	F4	SCN
4.	LD07-3395bf (SCN)	LD07-3395 Reselection	Diers	SCNUTIV	F5	SCN
5.	AR13-332001	AR07-176037 x Syngenta 05JR200591	Cianzo	PTIIIA	F5	BSR
6.	AR13-332029	AR07-376031 x Syngenta 05JR200591	Cianzo	PTIIIA	F5	SDS
7.	HM11-W192	OHS 305 x OHS 303	McHale	1	F4	
8.	HM12-N069	E05030 x LD04-13265	McHale	PTIIIA	F4	
9.	HR10-3325	LG00-6182 x LG02-4198	Mian	PTIIIA	F5	
10.	HR10-3349	LG01-4918 x H-2885	Mian	PTIIIA	F5	
11.	LD09-30224	LD05-3230 x LDX07-178a-1-7	Diers	SCNUTIII	F5	SCN, Rag1
12.	LD10-10219	LD05-3230 x LD00-3309	Diers	1	F4	
13.	LD10-10226	LD05-3230 x LD00-3309	Diers	1	F5	
14.	LD11-10069	LD06-2009 x LG04-6000	Diers	PTIIIB	F4	
15.	LD11-2170	Syngenta 03JR313108 x LD05-3171	Diers	SCNPIII	F5	SCN
16.	LD11-7311	Syngenta 03JR313108 x LD02-4485	Diers	SCNPIV	F5	SCN
17.	LD11-9790	LG04-6000 x Dairyland 75221	Diers	PTIV	F4	
18.	LG12-2177	U02-242055 x LG05-4550	Nelson	PTIIIB	F6	
19.	U11-377007	U02-242055 x LD04-13265	Graef	PTIIIB	F5	Susceptible to Rps.
20.	U11-396029	U03-300134 x LD04-11056	Graef	PTIIB	F5	Rps1k
21.	U11-430085	U03-100612 x LD04-13265	Graef	PTIIIB	F5	Rps resistance (1a?)
22.	U11-444083	U03-300134 x LD00-3309	Graef	PTIIIB	F5	Rps resistance. (1k, 3c?)
23.	U11-494100	LG04-6005 x LD00-2817P	Graef	PTIIIB	F5	Excellent Rps resistance.
24.	U11-614093	U02-242055 x LD04-13265	Graef	PTIIIB	F5	Rps1k.
25.	U11-616086	U02-242055 x LD02-4485	Graef	1	F6	Good Rps resistance.
26.	U11-622148	U02-242055 x LD04-13265	Graef	1	F6	Excellent Rps resistance.

UNIFORM TEST III, 2015

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	Shattering Score Man-hattan	Green Stem Score So. Charleston	SDS Data Crawfords-ville DX Rank	Fairbury and Valmeyer, IL Fair SDS DX	Val SDS DX	Mean SDS Mean DX
IA3023 (III)	WTTIYBI	1.0	1.4	8.4	5.6	14.7	10.1
IA3024	PGTSYDibI	1.0	1.7	25.6	1.1	30.6	15.8
IA3048 (SCN)	WGTIYYI	1.0	2.1	20.8	1.9	18.1	10.0
LD07-3395bf (SCN)	WGTSYBfI	1.0	2.8	1.7	0.0	0.3	0.1
AR13-332001	WGTSYBrI	2.0	1.9	7.2	6.7	30.6	18.6
AR13-332029	PTTSYBrI	1.0	0.9	4.8	0.3	4.2	2.2
HM11-W192	PTTSYBI	1.0	1.9	1.0	0.6	10.6	5.6
HM12-N069	PTBSYBI	2.0	2.2	7.5	2.5	12.2	7.4
HR10-3325	PGTSYBfI	1.0	1.1	2.2	2.2	36.1	19.2
HR10-3349	WGTSYBfI	1.0	1.4	7.2	0.0	0.3	0.1
LD09-30224	PGTSYBfI	1.0	1.6	0.7	0.0	1.1	0.6
LD10-10219	PGTSYDibI	1.0	0.9	1.4	0.0	0.3	0.1
LD10-10226	PGTSYG+DibI	1.0	1.3	16.4	5.8	14.2	10.0
LD11-10069	WTBSYBI	1.0	1.7	0.1	0.8	7.9	4.4
LD11-2170	PTBSYLbrI	1.0	0.8	2.5	13.9	6.1	10.0
LD11-7311	P+WGBSYLbfI	1.0	3.7	5.9	0.3	0.3	0.3
LD11-9790	PTBSYBrI	1.0	0.9	3.1	5.0	11.1	8.1
LG12-2177	WTBSYBI	1.0	3.4	1.7	2.8	6.1	4.4
U11-377007	WTBDYDibI	1.0	2.2	14.2	22.8	30.6	26.7
U11-396029	PTBSYBI	2.0	1.0	2.8	2.8	11.9	7.4
U11-430085	PTBDYBI	1.0	1.5	5.9	1.7	18.8	10.2
U11-444083	P+WTBSYBI	4.0	1.1	5.8	1.9	0.6	1.3
U11-494100	WTBDYBI	1.0	0.9	9.2	2.8	11.4	7.1
U11-614093	PTBDYBI	1.0	1.3	3.6	1.7	15.8	8.8
U11-616086	WTBDYYI	1.0	2.6	6.7	1.1	8.3	4.7
U11-622148	PTBDYGI	0.0	1.1	3.4	1.1	38.9	20.0
				LSD:	13.0	17.0	

UNIFORM TEST III, 2015

REGIONAL SUMMARY

No. of Tests Strain	Yield 16 bu/a	Rank 16 No.	Maturity 16 Date	Lodging 15 Score	Plant Height 15 In.	Seed Size 15 g/100	Seed Quality 15 Score	Composition Protein 6 %	 Oil 6 %
IA3023 (III)	58.8	13	9/23	1.6	31	15.0	1.7	34.0	19.7
IA3024	55.5	25	-2.0	1.6	31	15.6	1.9	34.3	20.0
IA3048 (SCN)	58.8	13	-0.2	1.8	32	14.1	1.7	34.8	19.2
LD07-3395bf (SCN)	61.4	2	4.9	1.4	30	15.3	1.8	32.8	20.4
AR13-332001	59.3	12	-0.4	1.3	29	17.4	1.9	36.4	19.1
AR13-332029	58.8	13	-0.8	1.7	33	13.4	2.0	34.8	19.6
HM11-W192	56.1	23	2.7	2.0	35	17.8	1.8	37.0	18.8
HM12-N069	59.6	11	3.0	2.3	35	15.9	1.9	35.7	19.5
HR10-3325	60.3	9	-0.8	1.6	33	14.1	1.9	34.3	19.1
HR10-3349	56.1	23	0.3	1.8	30	16.3	1.8	35.1	18.9
LD09-30224	58.4	19	-1.6	1.3	30	15.1	2.0	34.5	19.5
LD10-10219	60.6	8	-2.6	1.2	27	14.3	1.8	34.9	18.9
LD10-10226	58.4	19	-2.8	1.3	30	14.7	1.8	34.7	19.6
LD11-10069	61.3	5	1.7	1.8	33	13.8	1.7	34.9	18.8
LD11-2170	60.8	6	-0.9	1.2	30	14.8	1.9	34.9	20.1
LD11-7311	58.6	18	4.7	1.6	36	15.9	2.0	35.2	19.0
LD11-9790	60.7	7	3.3	1.4	32	14.8	1.9	35.6	18.5
LG12-2177	61.4	2	3.4	1.8	31	14.8	1.8	34.2	19.8
U11-377007	61.4	2	4.6	1.6	32	15.5	1.8	34.5	19.6
U11-396029	58.3	21	-1.0	1.4	31	14.3	1.8	34.3	19.6
U11-430085	58.7	16	3.2	1.7	35	14.3	2.0	33.7	19.6
U11-444083	55.1	26	0.0	1.5	34	13.6	1.7	33.9	19.5
U11-494100	61.6	1	3.2	1.5	34	14.0	1.7	34.2	19.2
U11-614093	58.7	16	-1.0	1.4	30	15.4	1.9	34.7	20.0
U11-616086	56.7	22	0.4	1.5	32	13.9	1.9	33.3	19.7
U11-622148	60.1	10	0.2	1.4	32	14.7	1.8	34.6	19.7
Mean	56.9			1.6	32.3	15.0	2.3		
C.V. (%)	28.5			48.8	18.1	15.7	34.9		
L.S.D. (5%)	7.7			0.4	2.7	1.2	0.5		

120.9 Days After Planting

UNIFORM TEST III, 2015

2014-2015 2-YEAR MEAN

No. of Tests Strain	Yield 31 bu/a	Rank 31 No.	Maturity 31 Date	Lodging 29 Score	Plant Height 29 In.	Seed Size 31 g/100	Seed Quality 29 Score	Composition Protein 15 %	 Oil 15 %
IA3023 (III)	58.4	7	9/20	1.5	32	15.9	1.8	34.1	19.6
IA3024	54.3	8	-2.4	1.5	31	15.9	2.0	34.0	20.0
IA3048 (SCN)	59.7	4	0.0	1.8	33	15.0	1.8	34.9	19.1
HM11-W192	58.9	6	2.5	2.1	33	18.7	1.9	36.9	18.8
LD10-10219	60.5	3	-1.5	1.3	30	15.2	1.9	34.9	18.8
LD10-10226	60.5	3	-1.9	1.3	32	15.6	1.9	34.8	19.5
U11-616086	59.6	5	0.2	1.6	32	14.6	1.9	33.2	19.7
U11-622148	61.1	1	-0.4	1.4	33	15.5	2.0	34.5	19.6

123.7 Days After Planting

UNIFORM TEST III, 2015

YIELD (bu/a)

Strain	Mean 16 Tests	Boone County IA	Crawfords-ville IA	Arthur IL	Urbana IL	Butler-ville IN*
IA3023 (III)	58.8	74.5	75.3	57.0	63.8	49.9
IA3024	55.5	69.8	56.8	62.9	60.3	32.3
IA3048 (SCN)	58.8	66.8	56.4	73.4	70.5	51.2
LD07-3395bf (SCN)	61.4	71.9	74.0	60.8	69.4	63.5
AR13-332001	59.3	68.9	66.5	69.7	65.3	54.9
AR13-332029	58.8	64.8	57.6	73.1	69.8	58.6
HM11-W192	56.1	67.1	62.8	71.1	60.3	74.6
HM12-N069	59.6	66.7	59.2	75.3	65.9	71.3
HR10-3325	60.3	65.9	64.9	70.4	69.0	45.1
HR10-3349	56.1	68.7	58.3	65.9	59.3	52.0
LD09-30224	58.4	72.9	70.6	67.2	62.1	38.4
LD10-10219	60.6	74.5	66.8	75.4	62.1	52.6
LD10-10226	58.4	71.4	68.9	66.7	65.8	43.6
LD11-10069	61.3	65.4	71.1	73.4	66.3	62.5
LD11-2170	60.8	73.0	74.0	68.0	72.8	58.7
LD11-7311	58.6	72.8	50.8	73.3	56.5	63.9
LD11-9790	60.7	64.7	62.9	74.4	65.9	70.0
LG12-2177	61.4	69.3	65.8	75.8	71.0	56.4
U11-377007	61.4	73.8	56.8	80.7	68.2	64.6
U11-396029	58.3	65.9	68.5	77.0	69.3	58.1
U11-430085	58.7	68.7	64.7	69.1	58.6	62.4
U11-444083	55.1	66.2	61.1	58.9	62.2	52.9
U11-494100	61.6	67.3	67.8	88.0	66.1	72.6
U11-614093	58.7	76.1	67.9	77.4	63.8	47.9
U11-616086	56.7	65.4	57.6	62.2	62.8	46.3
U11-622148	60.1	75.0	63.5	80.2	68.3	59.3
Location Mean		68.8	64.8	72.1	65.8	57.3
C.V. (%)		3.6	7.2	11.8	10.3	19.6
L.S.D. (5%)		5.2	9.5	14.4	11.5	7.5
Row Sp. (in.)		30	30	30	30	30
Rows/Plot		4	4	4	4	4
Reps		2	2	2	2	3

*Data not included in the mean.

UNIFORM TEST III, 2015

YIELD (bu/a)

Strain	Wanatah IN	West Lafayette IN	Man-hattan KS	Onaga KS	Ottawa KS	Portageville Clay MO
IA3023 (III)	67.2	56.3	35.0	26.5	39.8	60.4
IA3024	58.8	58.3	39.2	20.0	38.8	58.7
IA3048 (SCN)	70.0	56.6	37.6	25.0	44.4	56.4
LD07-3395bf (SCN)	68.6	57.6	39.3	24.1	47.0	55.4
AR13-332001	79.9	52.6	32.6	11.6	30.8	66.4
AR13-332029	64.5	55.5	44.5	22.8	45.5	54.2
HM11-W192	56.3	33.3	35.7	24.7	44.1	63.8
HM12-N069	65.6	58.6	42.3	22.7	45.7	64.1
HR10-3325	66.9	57.2	39.2	22.9	43.6	63.2
HR10-3349	58.5	60.3	34.6	22.7	39.3	50.7
LD09-30224	65.5	64.8	46.0	24.3	40.8	53.0
LD10-10219	77.4	54.5	47.4	22.7	37.7	56.7
LD10-10226	64.1	50.7	46.4	21.6	38.5	45.1
LD11-10069	65.7	55.9	32.3	27.4	48.0	68.5
LD11-2170	70.5	47.1	40.5	24.9	45.0	53.2
LD11-7311	65.2	59.9	42.0	25.1	42.2	52.9
LD11-9790	68.7	64.1	32.8	26.3	42.9	68.4
LG12-2177	58.0	63.0	30.2	23.5	44.3	71.8
U11-377007	63.8	59.5	33.3	26.0	44.0	64.1
U11-396029	68.4	53.6	35.4	20.9	39.6	53.2
U11-430085	60.8	62.1	32.3	22.6	43.2	60.6
U11-444083	65.2	54.4	34.5	19.4	36.7	53.5
U11-494100	59.8	61.1	33.5	24.3	46.2	64.6
U11-614093	70.7	56.3	37.0	24.0	38.3	53.2
U11-616086	65.4	60.3	40.5	23.2	41.6	51.6
U11-622148	68.5	57.5	38.4	26.2	42.8	51.8
Location Mean	65.6	57.4	37.3	23.7	42.8	56.6
C.V. (%)	10.7	14.1	7.6	8.4	5.1	12.4
L.S.D. (5%)	8.9	10.1	3.4	2.7	2.9	14.2
Row Sp. (in.)	30	30	30	30	30	30
Rows/Plot	4	4	4	4	4	4
Reps	3	3	3	3	3	3

UNIFORM TEST III, 2015

YIELD (bu/a)

Strain	Portageville Loam MO	Clay Center NE	Stevens Creek NE	Wymore NE	Hoyt-ville OH	So. Charl-eston OH
IA3023 (III)	49.0	73.0	86.0	59.2	67.4	49.8
IA3024	42.0	72.7	73.3	64.0	65.4	47.3
IA3048 (SCN)	47.9	76.0	74.7	58.2	65.4	61.5
LD07-3395bf (SCN)	63.3	85.0	76.3	62.0	67.6	59.7
AR13-332001	50.5	74.6	86.6	61.0	66.7	65.3
AR13-332029	58.3	75.6	66.9	65.6	64.5	58.2
HM11-W192	60.1	67.2	69.1	59.0	69.1	53.6
HM12-N069	58.1	64.4	65.6	58.8	72.4	67.6
HR10-3325	56.1	71.8	77.9	62.8	72.7	60.1
HR10-3349	53.4	69.8	72.3	62.9	66.2	55.5
LD09-30224	45.3	70.4	69.0	60.6	72.7	48.5
LD10-10219	42.9	80.0	79.7	60.4	70.7	61.1
LD10-10226	46.3	70.5	81.3	61.7	71.1	64.5
LD11-10069	56.4	67.9	75.2	65.5	79.3	63.2
LD11-2170	61.6	76.0	71.8	60.3	72.3	62.0
LD11-7311	64.4	71.2	71.6	62.6	62.8	63.9
LD11-9790	60.1	68.6	76.6	67.0	65.5	62.7
LG12-2177	49.8	73.2	79.6	65.3	76.1	66.4
U11-377007	65.6	72.2	75.9	64.2	73.2	61.4
U11-396029	48.4	75.5	84.4	62.9	65.1	45.1
U11-430085	59.7	73.1	69.8	59.8	72.3	61.3
U11-444083	48.6	73.8	72.1	52.0	69.7	52.8
U11-494100	58.5	70.3	79.0	63.8	72.1	62.7
U11-614093	41.0	73.3	81.6	59.4	68.6	50.0
U11-616086	47.6	67.2	73.9	60.1	66.2	62.2
U11-622148	58.3	75.1	67.5	58.9	68.6	61.6
Location Mean	54.8	72.9	75.0	61.4	68.9	61.3
C.V. (%)	7.6	5.6	7.7	6.8	6.9	12.2
L.S.D. (5%)	8.0	9.2	14.2	10.3	7.9	11.7
Row Sp. (in.)	30	30	30	30	7.5	15
Rows/Plot	4	4	4	4	8	6
Reps	3	2	2	2	3	3

UNIFORM TEST III, 2015

YIELD RANK

Strain	Yield Rank	Boone County IA	Crawfords-ville IA	Arthur IL	Urbana IL	Butler-ville IN
IA3023 (III)	13	3	1	26	16	20
IA3024	25	11	23	22	22	26
IA3048 (SCN)	13	18	25	10	3	19
LD07-3395bf (SCN)	2	9	3	24	5	7
AR13-332001	12	13	11	16	15	15
AR13-332029	13	25	21	13	4	12
HM11-W192	23	17	17	14	22	1
HM12-N069	11	19	19	8	12	3
HR10-3325	9	21	13	15	7	23
HR10-3349	23	15	20	21	23	18
LD09-30224	19	7	5	19	20	25
LD10-10219	8	4	10	7	20	17
LD10-10226	19	10	6	20	14	24
LD11-10069	5	24	4	11	10	8
LD11-2170	6	6	2	18	1	11
LD11-7311	18	8	26	12	26	6
LD11-9790	7	26	16	9	12	4
LG12-2177	2	12	12	6	2	14
U11-377007	2	5	24	2	9	5
U11-396029	21	22	7	5	6	13
U11-430085	16	14	14	17	25	9
U11-444083	26	20	18	25	19	16
U11-494100	1	16	9	1	11	2
U11-614093	16	1	8	4	16	21
U11-616086	22	23	21	23	18	22
U11-622148	10	2	15	3	8	10

UNIFORM TEST III, 2015

YIELD RANK

Strain	Wanatah IN	West Lafayette IN	Man-hattan KS	Onaga KS	Ottawa KS	Portageville Clay MO
IA3023 (III)	10	16	17	2	18	11
IA3024	23	11	10	24	21	12
IA3048 (SCN)	5	15	13	7	7	14
LD07-3395bf (SCN)	7	12	9	12	2	15
AR13-332001	1	23	23	26	26	4
AR13-332029	18	19	4	17	5	16
HM11-W192	26	26	15	9	9	8
HM12-N069	13	10	5	18	4	6
HR10-3325	11	14	11	16	11	9
HR10-3349	24	6	18	20	20	25
LD09-30224	14	1	3	10	17	21
LD10-10219	2	20	1	19	24	13
LD10-10226	19	24	2	22	22	26
LD11-10069	12	18	24	1	1	2
LD11-2170	4	25	7	8	6	18
LD11-7311	16	8	6	6	15	22
LD11-9790	6	2	22	3	13	3
LG12-2177	25	3	26	14	8	1
U11-377007	20	9	21	5	10	6
U11-396029	9	22	16	23	19	18
U11-430085	21	4	25	21	12	10
U11-444083	16	21	19	25	25	17
U11-494100	22	5	20	10	3	5
U11-614093	3	16	14	13	23	18
U11-616086	15	6	8	15	16	24
U11-622148	8	13	12	4	14	23

UNIFORM TEST III, 2015

YIELD RANK

Strain	Portageville Loam MO	Clay Center NE	Stevens Creek NE	Wymore NE	Hoyt-ville OH	So. Charl-eston OH
IA3023 (III)	17	13	2	21	14	23
IA3024	25	14	16	6	18	25
IA3048 (SCN)	20	3	14	25	18	12
LD07-3395bf (SCN)	3	1	11	12	13	17
AR13-332001	15	8	1	14	15	3
AR13-332029	9	5	25	2	20	18
HM11-W192	5	24	22	22	11	20
HM12-N069	11	26	26	24	5	1
HR10-3325	13	16	9	10	4	16
HR10-3349	14	21	17	8	16	19
LD09-30224	23	19	23	15	4	24
LD10-10219	24	2	6	16	9	15
LD10-10226	22	18	5	13	8	4
LD11-10069	12	23	13	3	1	6
LD11-2170	4	3	19	17	6	10
LD11-7311	2	17	20	11	21	5
LD11-9790	5	22	10	1	17	7
LG12-2177	16	11	7	4	2	2
U11-377007	1	15	12	5	3	13
U11-396029	19	6	3	8	19	26
U11-430085	7	12	21	19	6	14
U11-444083	18	9	18	26	10	21
U11-494100	8	20	8	7	7	7
U11-614093	26	10	4	20	12	22
U11-616086	21	24	15	18	16	9
U11-622148	9	7	24	23	12	11

UNIFORM TEST III, 2015

MATURITY (date)

Strain	Mean 16 Tests	Boone County IA	Crawfords-ville IA	Arthur IL	Urbana IL	Butler-ville IN
IA3023 (III)	9/23	10/8	9/22	9/9	9/14	9/11
IA3024	-2	-7	-8	-1	-3	-2
IA3048 (SCN)	-0	-3	-1	1	2	-1
LD07-3395bf (SCN)	5	2	4	6	7	4
AR13-332001	-0	-3	3	1	2	-1
AR13-332029	-1	-4	-3	2	0	0
HM11-W192	3	2	1	6	4	1
HM12-N069	3	-5	2	5	1	4
HR10-3325	-1	-6	-2	2	0	-2
HR10-3349	0	-6	0	0	1	-1
LD09-30224	-2	-6	-1	-1	0	-1
LD10-10219	-3	-7	-2	-1	-1	-1
LD10-10226	-3	-6	-5	-1	-2	-2
LD11-10069	2	-2	2	3	1	2
LD11-2170	-1	-7	1	3	1	-1
LD11-7311	5	3	5	7	7	8
LD11-9790	3	-1	3	6	5	4
LG12-2177	3	1	3	7	6	1
U11-377007	5	2	2	8	7	7
U11-396029	-1	-6	0	0	0	-1
U11-430085	3	1	2	6	8	3
U11-444083	0	-5	0	4	3	-1
U11-494100	3	1	3	5	4	1
U11-614093	-1	-5	1	2	2	-1
U11-616086	0	-5	2	3	3	1
U11-622148	0	-6	1	4	2	1
Date Planted	5/25	5/20	5/19	5/5	5/14	5/7
Days to Mature	120.9	141	126	127	123	127

UNIFORM TEST III, 2015

MATURITY (date)

Strain	Wanatah IN	West Lafayette IN	Man-hattan KS	Onaga KS	Ottawa KS	Portageville Clay MO
IA3023 (III)	10/3	9/24	9/15	10/15	9/30	9/30
IA3024	0	0	0	-2	-2	-1
IA3048 (SCN)	1	1	0	-3	0	-4
LD07-3395bf (SCN)	10	6	3	2	4	2
AR13-332001	0	1	-0	-4	-2	-6
AR13-332029	-2	1	1	-1	-2	-4
HM11-W192	3	3	5	-0	2	1
HM12-N069	5	4	5	1	3	2
HR10-3325	-1	1	1	-1	-0	-1
HR10-3349	2	1	2	-1	1	1
LD09-30224	-1	1	-0	-1	-1	-4
LD10-10219	-2	0	-1	-3	-4	-7
LD10-10226	-2	1	-1	-3	-3	-8
LD11-10069	-1	4	3	-1	3	1
LD11-2170	1	1	-1	-2	-2	-5
LD11-7311	6	9	1	1	2	-2
LD11-9790	6	6	2	-1	3	1
LG12-2177	4	4	2	0	3	3
U11-377007	4	7	3	2	5	3
U11-396029	3	1	1	-2	-2	-4
U11-430085	3	5	1	-0	3	2
U11-444083	1	3	1	-3	-1	-3
U11-494100	6	4	2	0	3	3
U11-614093	-2	2	0	-1	-1	-4
U11-616086	6	3	0	0	-2	-6
U11-622148	3	2	3	-0	-0	-4
Date Planted	5/22	5/27	6/2	6/22	6/18	6/16
Days to Mature	134	120	105	115	104	106

UNIFORM TEST III, 2015

MATURITY (date)

Strain	Portageville Loam MO	Clay Center NE	Stevens Creek NE	Wymore NE	Hoyt-ville OH	So. Charl-eston OH
IA3023 (III)	9/1	9/27	10/4		9/26	9/11
IA3024	-2	0	-3		0	-2
IA3048 (SCN)	4	-1	-2		-0	2
LD07-3395bf (SCN)	8	3	1		8	8
AR13-332001	-1	0	0		2	3
AR13-332029	4	-2	-5		0	3
HM11-W192	6	2	-2		2	8
HM12-N069	11	1	-1		6	6
HR10-3325	2	-2	-6		0	3
HR10-3349	2	1	0		0	2
LD09-30224	-5	-2	-4		-0	1
LD10-10219	-7	-1	-6		0	1
LD10-10226	-5	-2	-6		-0	-1
LD11-10069	5	-1	0		3	5
LD11-2170	3	-2	-6		0	1
LD11-7311	7	0	-1		10	12
LD11-9790	7	-2	0		5	9
LG12-2177	6	0	0		5	9
U11-377007	12	-1	0		6	7
U11-396029	-1	-1	-2		-0	-1
U11-430085	7	-1	0		6	6
U11-444083	2	-2	0		1	1
U11-494100	8	0	0		5	6
U11-614093	-3	-1	-6		2	0
U11-616086	1	-1	-4		4	3
U11-622148	4	-2	-7		2	3
Date Planted	5/4	6/9	6/2		5/22	5/8
Days to Mature	120	110	124		127	126

UNIFORM TEST III, 2015

LODGING (score)

Strain	Mean 15 Tests	Boone County IA	Crawfords-ville IA	Arthur IL	Urbana IL	Butler-ville IN
IA3023 (III)	1.6	1.5	2.0	1.3	1.0	1.0
IA3024	1.6	1.5	2.0	1.3	1.0	1.0
IA3048 (SCN)	1.8	2.5	3.0	1.8	1.5	1.0
LD07-3395bf (SCN)	1.4	1.5	2.0	1.3	1.0	1.0
AR13-332001	1.3	1.0	1.8	1.5	1.0	1.0
AR13-332029	1.7	2.5	3.3	1.8	1.3	1.0
HM11-W192	2.0	3.0	2.3	1.5	2.0	1.0
HM12-N069	2.3	3.5	3.3	1.8	2.0	1.5
HR10-3325	1.6	2.5	2.3	1.3	1.8	1.2
HR10-3349	1.8	3.5	2.5	1.3	1.5	1.2
LD09-30224	1.3	1.0	2.0	1.0	1.3	1.0
LD10-10219	1.2	1.0	1.8	1.0	1.0	1.0
LD10-10226	1.3	1.5	1.8	1.0	1.0	1.0
LD11-10069	1.8	3.0	2.8	1.3	1.8	1.2
LD11-2170	1.2	1.0	1.5	1.0	1.0	1.0
LD11-7311	1.6	1.5	2.0	1.8	1.3	1.2
LD11-9790	1.4	1.0	2.3	1.3	1.0	1.2
LG12-2177	1.8	1.5	2.3	2.3	1.3	1.3
U11-377007	1.6	1.0	2.3	1.5	1.5	1.0
U11-396029	1.4	1.5	1.8	1.5	1.5	1.0
U11-430085	1.7	2.0	2.3	1.5	1.0	1.2
U11-444083	1.5	1.5	2.5	1.3	1.3	1.0
U11-494100	1.5	1.5	2.5	2.0	1.0	1.0
U11-614093	1.4	1.0	2.0	1.3	1.0	1.0
U11-616086	1.5	2.0	2.0	1.3	1.0	1.3
U11-622148	1.4	1.0	2.0	1.3	1.3	1.2

UNIFORM TEST III, 2015

LODGING (score)

Strain	Wanatah IN	West Lafayette IN	Man-hattan KS	Onaga KS	Ottawa KS	Portageville Clay MO
IA3023 (III)	1.3	1.0	1.0	1.0	1.0	2.3
IA3024	1.3	1.0	1.3	1.0	1.0	3.0
IA3048 (SCN)	1.7	1.0	1.3	1.0	1.0	2.3
LD07-3395bf (SCN)	1.7	1.0	1.0	1.0	1.0	2.3
AR13-332001	1.7	1.0	1.0	1.0	1.0	2.0
AR13-332029	1.2	1.0	1.3	1.0	1.0	2.3
HM11-W192	2.0	1.0	1.7	1.0	1.0	3.0
HM12-N069	2.3	1.0	2.7	1.0	1.0	3.0
HR10-3325	1.7	1.0	1.0	1.0	1.0	2.7
HR10-3349	2.0	1.0	1.3	1.0	1.0	3.0
LD09-30224	1.3	1.0	1.3	1.0	1.0	2.0
LD10-10219	1.2	1.0	1.0	1.0	1.0	2.0
LD10-10226	1.3	1.0	1.0	1.0	1.0	2.3
LD11-10069	1.5	1.0	1.0	1.0	1.0	2.3
LD11-2170	1.3	1.0	1.0	1.0	1.0	2.3
LD11-7311	1.8	1.0	1.3	1.0	1.0	2.7
LD11-9790	1.7	1.0	1.0	1.0	1.0	3.0
LG12-2177	1.8	1.0	1.0	1.0	1.0	3.3
U11-377007	1.5	1.0	1.0	1.0	1.0	2.7
U11-396029	1.8	1.0	1.0	1.0	1.0	2.0
U11-430085	2.0	1.0	1.3	1.0	1.0	3.0
U11-444083	1.8	1.0	1.3	1.0	1.0	2.3
U11-494100	1.3	1.0	1.0	1.0	1.0	2.7
U11-614093	1.5	1.0	1.0	1.0	1.0	2.3
U11-616086	1.8	1.0	1.3	1.0	1.0	2.0
U11-622148	1.5	1.0	1.0	1.0	1.0	2.0

UNIFORM TEST III, 2015

LODGING (score)

Strain	Portageville Loam MO	Clay Center NE	Stevens Creek NE	Wymore NE	Hoyt-ville OH	So. Charl-eston OH
IA3023 (III)	2.3		1.5		1.0	4.3
IA3024	2.0		2.5		1.0	2.9
IA3048 (SCN)	2.0		2.5		1.0	2.8
LD07-3395bf (SCN)	2.3		2.0		1.0	1.3
AR13-332001	2.0		1.0		1.0	1.0
AR13-332029	2.7		1.5		1.0	2.8
HM11-W192	2.7		3.0		1.0	4.1
HM12-N069	2.7		4.5		1.0	2.7
HR10-3325	2.0		1.5		1.0	2.7
HR10-3349	2.0		3.0		1.0	2.1
LD09-30224	1.7		1.5		1.0	2.0
LD10-10219	1.0		1.0		1.0	1.5
LD10-10226	2.0		1.5		1.0	1.6
LD11-10069	2.0		3.0		1.0	2.9
LD11-2170	2.3		1.0		1.0	0.8
LD11-7311	2.7		1.5		1.0	1.9
LD11-9790	2.0		1.0		1.0	2.3
LG12-2177	2.7		2.5		1.0	2.7
U11-377007	2.7		3.0		1.0	1.5
U11-396029	2.0		1.0		1.0	1.1
U11-430085	2.7		2.0		1.0	2.7
U11-444083	2.0		1.5		1.0	2.1
U11-494100	2.3		1.0		1.0	2.4
U11-614093	2.0		1.5		1.0	2.1
U11-616086	2.0		2.5		1.0	1.9
U11-622148	2.3		1.5		1.0	1.6

UNIFORM TEST III, 2015

PLANT HEIGHT (inches)

Strain	Mean 15 Tests	Boone County IA	Crawfords-ville IA	Arthur IL	Urbana IL	Butler-ville IN
IA3023 (III)	31	42	37	34	30	24
IA3024	31	41	36	34	31	19
IA3048 (SCN)	32	43	36	35	34	24
LD07-3395bf (SCN)	30	36	37	31	29	23
AR13-332001	29	39	32	33	30	23
AR13-332029	33	43	36	35	34	24
HM11-W192	35	39	40	39	36	32
HM12-N069	35	43	42	42	37	32
HR10-3325	33	41	38	37	36	26
HR10-3349	30	42	34	34	28	23
LD09-30224	30	38	34	33	28	23
LD10-10219	27	37	31	27	25	22
LD10-10226	30	37	34	33	31	24
LD11-10069	33	43	38	40	34	27
LD11-2170	30	38	36	30	30	26
LD11-7311	36	44	40	39	36	30
LD11-9790	32	38	38	36	35	26
LG12-2177	31	40	32	37	33	27
U11-377007	32	39	39	37	33	25
U11-396029	31	40	38	37	33	25
U11-430085	35	45	40	39	33	30
U11-444083	34	46	40	37	37	27
U11-494100	34	42	40	41	34	31
U11-614093	30	39	36	37	27	23
U11-616086	32	40	36	37	32	25
U11-622148	32	41	35	35	34	26

UNIFORM TEST III, 2015

PLANT HEIGHT (inches)

Strain	Wanatah IN	West Lafayette IN	Man-hattan KS	Onaga KS	Ottawa KS	Portageville Clay MO
IA3023 (III)	32	20	37	24	27	26
IA3024	31	22	38	29	30	30
IA3048 (SCN)	30	26	39	26	30	29
LD07-3395bf (SCN)	30	23	33	24	25	26
AR13-332001	31	17	33	24	24	27
AR13-332029	34	27	41	28	29	28
HM11-W192	35	26	37	30	30	32
HM12-N069	33	27	40	27	31	34
HR10-3325	33	28	39	26	27	30
HR10-3349	29	20	36	26	28	29
LD09-30224	31	25	33	27	28	26
LD10-10219	28	21	30	21	22	23
LD10-10226	30	25	36	26	26	26
LD11-10069	32	25	36	27	28	29
LD11-2170	29	23	35	24	26	29
LD11-7311	36	29	43	26	29	31
LD11-9790	34	24	37	24	28	29
LG12-2177	30	25	35	26	27	27
U11-377007	32	25	37	26	29	29
U11-396029	31	25	35	25	26	26
U11-430085	36	28	41	29	31	32
U11-444083	34	24	40	27	31	30
U11-494100	34	27	40	26	29	32
U11-614093	30	21	35	24	28	28
U11-616086	33	23	37	27	27	26
U11-622148	31	26	37	25	28	30

UNIFORM TEST III, 2015

PLANT HEIGHT (inches)

Strain	Portageville Loam MO	Clay Center NE	Stevens Creek NE	Wymore NE	Hoyt-ville OH	So. Charl-eston OH
IA3023 (III)	28		41		25	35
IA3024	27		42		25	30
IA3048 (SCN)	25		41		27	34
LD07-3395bf (SCN)	28		46		26	31
AR13-332001	25		42		24	32
AR13-332029	32		42		31	37
HM11-W192	33		44		31	37
HM12-N069	34		42		32	36
HR10-3325	28		43		29	37
HR10-3349	28		39		24	33
LD09-30224	23		37		27	30
LD10-10219	21		39		25	29
LD10-10226	26		41		26	33
LD11-10069	30		41		31	35
LD11-2170	30		37		27	32
LD11-7311	36		45		32	39
LD11-9790	30		43		27	37
LG12-2177	26		38		30	34
U11-377007	33		35		30	32
U11-396029	27		39		27	33
U11-430085	32		48		30	39
U11-444083	28		45		28	37
U11-494100	32		43		31	35
U11-614093	27		40		26	32
U11-616086	30		45		27	35
U11-622148	32		42		30	32

UNIFORM TEST III, 2015

SEED SIZE (g/100)

Strain	Mean 15 Tests	Boone County IA	Crawfords-ville IA	Arthur IL	Urbana IL	Butler-ville IN
IA3023 (III)	15.0		13.6	17.3	15.3	15.5
IA3024	15.6		13.2	16.8	15.6	15.5
IA3048 (SCN)	14.1		11.3	16.0	15.7	12.9
LD07-3395bf (SCN)	15.3		14.0	14.6	16.4	15.0
AR13-332001	17.4		15.5	19.8	18.2	16.4
AR13-332029	13.4		12.8	14.4	13.6	13.5
HM11-W192	17.8		15.6	18.5	19.1	17.3
HM12-N069	15.9		13.7	17.1	16.8	15.3
HR10-3325	14.1		12.2	15.8	15.2	13.2
HR10-3349	16.3		14.5	17.8	17.8	15.0
LD09-30224	15.1		13.7	17.1	15.3	13.0
LD10-10219	14.3		13.1	16.0	15.2	12.9
LD10-10226	14.7		13.0	16.7	15.0	12.8
LD11-10069	13.8		12.5	14.2	14.4	13.9
LD11-2170	14.8		13.6	15.7	16.3	14.6
LD11-7311	15.9		16.1	16.0	17.9	13.9
LD11-9790	14.8		14.1	14.2	16.9	13.3
LG12-2177	14.8		13.9	16.3	16.7	14.5
U11-377007	15.5		13.7	14.9	17.3	13.9
U11-396029	14.3		13.1	15.7	14.7	13.4
U11-430085	14.3		12.2	15.6	15.3	13.7
U11-444083	13.6		12.1	13.7	14.8	13.6
U11-494100	14.0		12.7	15.3	15.6	12.7
U11-614093	15.4		13.9	17.0	16.1	14.8
U11-616086	13.9		13.1	14.3	14.3	12.3
U11-622148	14.7		13.7	15.3	15.4	13.7

UNIFORM TEST III, 2015

SEED SIZE (g/100)

Strain	Wanatah IN	West Lafayette IN	Man-hattan KS	Onaga KS	Ottawa KS	Portageville Clay MO
IA3023 (III)	15.0	14.8	9.6	11.9	17.6	16.6
IA3024	15.9	13.8	13.5	12.6	17.5	17.2
IA3048 (SCN)	14.3	14.0	11.0	12.9	12.9	15.2
LD07-3395bf (SCN)	16.3	14.8	11.0	12.6	17.7	16.6
AR13-332001	18.6	17.0	13.2	13.9	19.2	17.5
AR13-332029	14.0	13.3	10.0	11.4	15.4	14.4
HM11-W192	17.0	16.8	13.7	16.2	20.1	19.7
HM12-N069	15.7	15.0	12.2	12.4	18.9	17.7
HR10-3325	14.1	13.6	12.0	11.1	16.3	15.8
HR10-3349	16.5	15.8	13.2	13.0	17.8	18.4
LD09-30224	15.9	15.2	12.4	13.0	16.2	17.0
LD10-10219	15.3	13.7	11.5	12.3	15.3	14.6
LD10-10226	15.7	14.5	12.2	12.6	16.8	15.5
LD11-10069	14.4	14.1	10.3	11.9	14.7	15.5
LD11-2170	15.1	15.2	10.7	12.4	15.3	15.6
LD11-7311	16.4	15.8	12.0	13.8	17.7	16.3
LD11-9790	15.9	14.3	11.0	13.1	17.2	15.9
LG12-2177	14.3	14.0	10.9	11.5	15.7	16.5
U11-377007	16.2	15.0	11.8	13.6	17.2	16.7
U11-396029	14.0	14.3	10.6	11.9	16.6	16.1
U11-430085	13.7	13.9	10.6	12.2	15.4	16.3
U11-444083	13.0	13.1	10.5	11.7	15.1	15.5
U11-494100	13.8	12.6	10.9	12.9	13.7	15.6
U11-614093	14.7	14.6	12.2	12.6	16.6	17.1
U11-616086	13.7	13.4	11.4	12.0	15.3	15.9
U11-622148	14.7	14.2	12.3	11.7	15.8	16.0

UNIFORM TEST III, 2015

SEED SIZE (g/100)

Strain	Portageville Loam MO	Clay Center NE	Stevens Creek NE	Wymore NE	Hoyt-ville OH	So. Charl-eston OH
IA3023 (III)	15.0	16.0	16.0		16.0	15.2
IA3024	14.6	18.0	18.0		15.8	15.7
IA3048 (SCN)	13.0	16.0	16.0		14.8	14.8
LD07-3395bf (SCN)	14.0	18.0	18.0		14.8	16.3
AR13-332001	14.9	20.0	20.0		16.7	19.5
AR13-332029	11.4	14.0	15.0		13.5	14.1
HM11-W192	17.4	19.0	20.0		18.1	19.0
HM12-N069	14.9	17.0	20.0		14.6	16.7
HR10-3325	14.2	14.0	16.0		13.3	14.8
HR10-3349	14.8	18.0	18.0		16.8	16.9
LD09-30224	14.3	16.0	16.0		15.7	16.3
LD10-10219	12.9	16.0	16.0		14.8	15.4
LD10-10226	13.2	16.0	16.0		14.2	16.2
LD11-10069	12.1	15.0	15.0		15.0	14.4
LD11-2170	13.4	15.0	17.0		15.9	16.4
LD11-7311	14.5	17.0	17.0		15.3	18.6
LD11-9790	13.6	15.0	17.0		14.2	15.9
LG12-2177	13.7	16.0	17.0		14.9	16.6
U11-377007	13.1	18.0	19.0		15.1	16.8
U11-396029	12.5	17.0	16.0		13.4	14.6
U11-430085	13.3	16.0	17.0		14.3	14.7
U11-444083	12.2	16.0	16.0		13.0	13.7
U11-494100	13.8	15.0	16.0		14.2	15.3
U11-614093	15.0	18.0	18.0		14.8	15.1
U11-616086	12.3	16.0	16.0		13.9	14.5
U11-622148	13.3	17.0	18.0		14.3	15.3

UNIFORM TEST III, 2015

SEED QUALITY (score)

Strain	Mean 15 Tests	Boone County IA	Crawfords-ville IA	Arthur IL	Urbana IL	Butler-ville IN
IA3023 (III)	1.7		1.0	2.0	1.0	1.5
IA3024	1.9		2.0	2.0	1.0	1.5
IA3048 (SCN)	1.7		1.0	1.0	2.0	1.0
LD07-3395bf (SCN)	1.8		1.0	1.0	2.0	1.0
AR13-332001	1.9		1.0	3.0	2.0	1.0
AR13-332029	2.0		2.0	3.0	2.0	1.0
HM11-W192	1.8		1.0	2.0	2.0	1.0
HM12-N069	1.9		2.0	3.0	2.0	1.0
HR10-3325	1.9		1.0	2.0	2.0	1.0
HR10-3349	1.8		1.0	2.0	1.0	1.0
LD09-30224	2.0		2.0	2.0	2.0	1.0
LD10-10219	1.8		2.0	1.0	1.0	1.0
LD10-10226	1.8		1.0	1.0	2.0	1.0
LD11-10069	1.7		2.0	1.0	1.0	1.0
LD11-2170	1.9		2.0	2.0	1.0	1.0
LD11-7311	2.0		2.0	2.0	2.0	1.0
LD11-9790	1.9		2.0	2.0	2.0	1.0
LG12-2177	1.8		1.0	2.0	1.0	1.0
U11-377007	1.8		2.0	1.0	2.0	1.0
U11-396029	1.8		1.0	2.0	1.0	1.0
U11-430085	2.0		1.0	3.0	2.0	1.0
U11-444083	1.7		1.0	2.0	1.0	1.0
U11-494100	1.7		1.0	3.0	1.0	1.0
U11-614093	1.9		1.0	2.0	2.0	1.0
U11-616086	1.9		1.0	2.0	2.0	1.0
U11-622148	1.8		1.0	2.0	1.0	1.0

UNIFORM TEST III, 2015

SEED QUALITY (score)

Strain	Wanatah IN	West Lafayette IN	Man-hattan KS	Onaga KS	Ottawa KS	Portageville Clay MO
IA3023 (III)	1.0	1.0	3.0	3.0	2.0	3.0
IA3024	1.0	1.0	3.0	3.0	2.0	3.0
IA3048 (SCN)	1.0	1.5	3.0	3.0	2.0	3.0
LD07-3395bf (SCN)	1.0	1.5	3.0	3.0	1.0	3.0
AR13-332001	1.0	1.5	3.0	3.0	2.0	3.0
AR13-332029	1.0	1.0	3.0	3.0	2.0	3.0
HM11-W192	1.0	1.0	3.0	3.0	1.0	3.0
HM12-N069	1.0	1.0	2.0	3.0	1.0	3.0
HR10-3325	1.0	1.5	2.0	3.0	2.0	3.0
HR10-3349	1.0	1.0	3.0	3.0	2.0	3.0
LD09-30224	1.0	1.0	3.0	3.0	2.0	3.0
LD10-10219	1.0	1.0	3.0	3.0	2.0	3.0
LD10-10226	1.0	1.5	3.0	3.0	2.0	3.0
LD11-10069	1.0	1.0	3.0	3.0	1.0	3.0
LD11-2170	1.0	1.0	3.0	3.0	3.0	3.0
LD11-7311	1.0	1.0	3.0	3.0	3.0	3.0
LD11-9790	1.0	1.0	3.0	3.0	1.0	3.0
LG12-2177	1.0	1.0	3.0	3.0	2.0	3.0
U11-377007	1.0	1.0	3.0	3.0	1.0	3.0
U11-396029	1.0	1.0	3.0	3.0	2.0	3.0
U11-430085	1.0	1.0	3.0	3.0	2.0	3.0
U11-444083	1.0	1.0	3.0	3.0	2.0	2.7
U11-494100	1.0	1.0	2.0	2.0	2.0	3.0
U11-614093	1.0	1.0	3.0	3.0	2.0	3.0
U11-616086	1.0	1.0	3.0	3.0	3.0	3.0
U11-622148	1.0	1.0	3.0	3.0	2.0	3.0

UNIFORM TEST III, 2015

SEED QUALITY (score)

Strain	Portageville Loam MO	Clay Center NE	Stevens Creek NE	Wymore NE	Hoyt-ville OH	So. Charl-eston OH
IA3023 (III)	2.7	1.0	2.0		1.0	1.0
IA3024	3.0	2.0	2.0		1.0	1.3
IA3048 (SCN)	2.3	1.0	2.0		1.0	1.0
LD07-3395bf (SCN)	3.7	2.0	2.0		1.0	1.3
AR13-332001	3.3	1.0	2.0		1.0	1.3
AR13-332029	2.7	2.0	2.0		1.0	1.0
HM11-W192	3.0	2.0	2.0		1.0	1.3
HM12-N069	3.0	2.0	2.0		1.0	1.0
HR10-3325	3.3	2.0	2.0		1.0	1.0
HR10-3349	2.7	2.0	2.0		1.0	1.0
LD09-30224	3.3	2.0	2.0		1.0	1.0
LD10-10219	3.0	2.0	2.0		1.0	1.7
LD10-10226	2.3	2.0	2.0		1.0	1.0
LD11-10069	2.7	2.0	2.0		1.0	1.0
LD11-2170	2.3	2.0	2.0		1.0	1.3
LD11-7311	2.3	2.0	2.0		1.0	1.7
LD11-9790	3.0	2.0	2.0		1.0	1.0
LG12-2177	3.0	2.0	2.0		1.0	1.0
U11-377007	3.3	2.0	2.0		1.0	1.3
U11-396029	3.3	1.0	2.0		1.0	1.0
U11-430085	3.7	2.0	2.0		1.0	1.0
U11-444083	2.3	2.0	2.0		1.0	1.0
U11-494100	3.0	2.0	2.0		1.0	1.0
U11-614093	3.7	2.0	2.0		1.0	1.3
U11-616086	2.3	2.0	2.0		1.0	1.7
U11-622148	3.0	2.0	2.0		1.0	1.3

UNIFORM TEST III, 2015

PROTEIN (%)

Strain	Mean 6 Tests	Butler-ville IN	Wanatah IN	West Lafayette IN	Man-hattan KS	Portageville Clay MO	Hoytville OH
IA3023 (III)	34.0	34.8	33.1	32.4	34.4	35.3	34.3
IA3024	34.3	35.0	33.7	32.7	35.1	35.4	34.0
IA3048 (SCN)	34.8	34.5	34.6	33.7	36.0	34.7	35.4
LD07-3395bf (SCN)	32.8	33.0	31.2	32.2	33.2	34.6	32.8
AR13-332001	36.4	36.1	35.6	35.8	37.9	36.1	36.9
AR13-332029	34.8	35.1	34.7	33.8	35.4	35.2	34.5
HM11-W192	37.0	37.1	35.9	36.5	37.8	37.1	37.5
HM12-N069	35.7	35.8	35.0	34.8	36.1	36.9	35.5
HR10-3325	34.3	34.8	33.3	33.8	34.6	34.7	34.4
HR10-3349	35.1	35.2	34.4	34.3	35.4	35.8	35.5
LD09-30224	34.5	35.0	33.6	33.8	33.7	36.0	34.8
LD10-10219	34.9	35.2	33.9	34.1	35.5	35.8	34.9
LD10-10226	34.7	35.3	33.9	34.0	35.0	34.8	35.2
LD11-10069	34.9	34.7	33.8	33.7	36.4	35.6	34.9
LD11-2170	34.9	35.4	34.1	34.4	35.5	34.7	35.4
LD11-7311	35.2	34.9	34.2	35.0	35.7	35.8	35.6
LD11-9790	35.6	35.5	34.6	34.6	36.8	35.7	36.4
LG12-2177	34.2	34.3	32.5	33.0	35.3	35.8	34.6
U11-377007	34.5	34.1	33.4	33.6	34.9	35.4	35.7
U11-396029	34.3	34.6	33.4	33.4	34.9	34.7	34.8
U11-430085	33.7	33.8	32.4	31.7	34.7	34.4	35.1
U11-444083	33.9	34.3	32.6	32.6	36.0	34.3	33.6
U11-494100	34.2	34.3	33.0	33.1	35.2	34.8	34.9
U11-614093	34.7	35.3	33.2	33.5	35.0	35.5	35.5
U11-616086	33.3	33.6	32.9	32.7	33.8	33.1	33.6
U11-622148	34.6	35.1	33.4	33.7	35.9	34.7	34.7

UNIFORM TEST III, 2015

OIL (%)

Strain	Mean 6 Tests	Butler-ville IN	Wanatah IN	West Lafayette IN	Man-hattan KS	Portageville Clay MO	Hoytville OH
IA3023 (III)	19.7	19.7	19.8	20.7	19.2	19.4	19.5
IA3024	20.0	19.9	19.6	20.7	19.7	19.8	20.1
IA3048 (SCN)	19.2	19.2	18.7	19.9	18.3	19.9	18.9
LD07-3395bf (SCN)	20.4	20.7	20.5	20.8	19.8	20.4	20.1
AR13-332001	19.1	19.3	18.8	19.4	18.9	19.7	18.6
AR13-332029	19.6	19.5	19.1	20.1	18.9	20.3	19.5
HM11-W192	18.8	18.7	18.8	19.1	18.2	19.4	18.4
HM12-N069	19.5	19.7	19.2	20.0	19.0	19.8	19.3
HR10-3325	19.1	19.0	19.1	19.3	19.2	19.4	18.7
HR10-3349	18.9	18.7	19.2	19.5	18.5	19.1	18.7
LD09-30224	19.5	18.9	19.8	20.1	19.3	19.4	19.2
LD10-10219	18.9	18.6	18.8	19.3	18.7	19.0	18.7
LD10-10226	19.6	19.0	19.4	20.0	19.5	20.6	19.2
LD11-10069	18.8	19.1	18.7	19.1	17.9	19.4	18.8
LD11-2170	20.1	20.2	20.0	20.7	18.9	21.1	19.8
LD11-7311	19.0	19.4	18.9	19.2	18.3	19.9	18.5
LD11-9790	18.5	18.7	18.9	19.1	17.0	19.4	18.0
LG12-2177	19.8	20.6	20.3	20.7	18.7	19.8	18.7
U11-377007	19.6	20.1	19.6	19.9	19.2	19.9	19.2
U11-396029	19.6	19.8	19.5	20.1	18.9	20.4	19.1
U11-430085	19.6	19.8	19.5	20.3	19.1	20.0	19.1
U11-444083	19.5	19.6	19.4	20.0	18.5	20.1	19.2
U11-494100	19.2	19.3	18.9	19.5	18.9	19.7	18.9
U11-614093	20.0	20.0	20.0	20.6	20.2	20.1	19.4
U11-616086	19.7	19.6	19.4	19.8	19.7	20.6	18.9
U11-622148	19.7	19.6	19.5	20.0	19.3	20.2	19.4

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PRELIMINARY TEST IIIA, 2015

Ent.	Strain	Parentage	Seed Source	Gen. Comp.	Unique Traits
1	IA3023 (III)	Dairyland DSR-365 x Pioneer P9381	Fehr	F5	
2.	IA3024	A97-553017 x Pioneer YB33A99	Fehr		1% Linolenic
3.	IA3048 (SCN)	Dairyland 99540 x IA2068	Fehr	F4	SCN
4.	LD07-3395bf (SCN)	LD07-3395 Reselection	Diers	F5	SCN
5.	AR13-232011	Syngenta 03JR101916 x IAR2001 BSR	Cianzio	F5	BSR
6.	AR13-232073	AR07-176049 x Syngenta 05RM926756	Cianzio	F5	SDS
7.	AR13-332048	AR07-176075 x Syngenta 05JR200591	Cianzio	F4	
8.	AR13-332087	AR07-276077 x Syngenta 05RM926756	Cianzio	F4	
9.	DS11-02178	TN05-3027 x IA3023	Rainey/Diers	F5	
10.	DS11-03023	IA3023 x 4J105-3-4	Rainey/Diers	F5	
11.	DS11-03174	IA3023 x 4J105-3-4	Rainey/Diers	F5	
12.	DS11-06152	IA3023 x CL0J173-6-8	Rainey/Diers	F5	
13.	HM11-G011	HF04-0648 x HS5W-362	McHale		
14.	HM13-R061	HS8-3547 x HS6-3705	McHale		
15.	HM13-R079	HS7W-194 x OHS203	McHale		
16.	HM13-S072	HS7W-94 x OHS306	McHale		
17.	HM13-T053	HS6-8718 x HS7W-82	McHale		
18.	HM13-W045	OHS203 x HS7-6948	McHale		
19.	HM13-W098	HS8-3547 x HS6-3705	McHale		
20.	HM13-W128	HS8-3547 x HS6-3705	McHale		
21.	K13-1519	LG06-5920 x LD04-13265	Schapaugh	F4	
22.	K13-1523	LG06-5920 x LD04-13265	Schapaugh	F4	
23.	LD12-3866	LG04-5372 x Dairyland 75213-72	Diers	F5	
24.	SA12-1018	S07-5049 x S07-3614	Scaboo	F5	
25.	SA12-1338	S08-18569 x S07-5049	Scaboo	F5	
26.	SA12-1340	S08-18569 x S07-5049	Scaboo	F5	
27.	SA12-1455	CL06-121119 x S07-5117	Scaboo	F5	
28.	SA12-1914	S08-18569 x S07-5049	Scaboo	F5	

PRELIMINARY TEST IIIA, 2015

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	Shattering Score Manhattan	Green Stem Score So. Charleston	SDS Data Crawfordsville DX Rank
IA3023 (III)	PTBSYBI	1.0	1.1	5.5
IA3024	PGTSYDibI	2.0	2.6	25.8
IA3048 (SCN)	WGTIYYI	1.0	1.3	5.9
LD07-3395bf (SCN)	WGTSYBfI	1.0	3.0	0.0
AR13-232011	PTBSYBI	1.0	1.5	6.8
AR13-232073	PGBSYBfI	1.0	0.8	2.0
AR13-332048	PTTSYBI	1.0	4.0	1.1
AR13-332087	P+WGBSYBfI	2.0	2.9	10.0
DS11-02178	WTTIYBI	1.0	2.1	13.9
DS11-03023	WTBSYBI	1.0	1.1	3.5
DS11-03174	WTBSYBI	1.0	2.1	10.2
DS11-06152	WTBSYBI	1.0	1.2	1.4
HM11-G011	PGTSYDibI	1.0	1.0	14.5
HM13-R061	PTBIYBI	1.0	1.2	2.2
HM13-R079	PTBSYBI	1.0	2.2	27.8
HM13-S072	PGTSYBfI	3.0	1.0	8.4
HM13-T053	WTTSYBI	2.0	2.3	1.7
HM13-W045	PT+GTSYBI	2.0	1.0	1.3
HM13-W098	WTTSYBI	2.0	1.5	1.0
HM13-W128	PTBSYBI	1.0	1.0	14.7
K13-1519	PTBIYBI	1.0	4.7	2.0
K13-1523	PTBIYBI	1.0	4.1	5.6
LD12-3866	P+WGTSYLbfI	1.0	1.4	2.8
SA12-1018	PTTSYBI	1.0	4.3	5.6
SA12-1338	WTTSYBI	1.0	2.4	2.4
SA12-1340	WTTSYBI	2.0	1.4	1.1
SA12-1455	WTBDYGI	1.0	4.3	0.2
SA12-1914	WTTSYBI	1.0	3.0	0.0

PRELIMINARY TEST IIIA, 2015

REGIONAL SUMMARY

No. of Tests Strain	Yield 11 bu/a	Rank 11 No.	Maturity 10 Date	Lodging 9 Score	Plant Height 9 In.	Seed Size 9 g/100	Seed Quality 9 Score	Composition Protein 5 %	 Oil 5 %
IA3023 (III)	64.3	7	9/24	1.6	34	15.7	1.3	33.5	19.8
IA3024	60.6	19	-2.2	1.6	34	16.7	1.9	34.0	20.0
IA3048 (SCN)	64.5	6	1.1	2.0	34	15.1	1.9	34.4	19.3
LD07-3395bf (SCN)	67.1	2	4.6	1.3	32	15.9	1.9	32.3	20.5
AR13-232011	58.6	25	-0.2	1.6	34	13.6	1.7	34.6	19.4
AR13-232073	59.6	22	-4.7	2.0	33	17.6	2.0	34.7	19.7
AR13-332048	65.7	5	1.6	1.6	35	14.8	1.6	35.4	19.4
AR13-332087	57.6	27	-0.5	1.6	35	14.2	2.0	34.0	19.5
DS11-02178	60.2	20	2.1	1.4	36	18.5	1.8	34.7	19.6
DS11-03023	62.3	13	-1.1	1.6	34	14.8	1.7	32.8	20.2
DS11-03174	62.1	14	2.6	1.4	33	16.3	1.9	33.3	19.5
DS11-06152	66.6	3	0.4	1.3	32	15.6	1.6	33.0	19.5
HM11-G011	61.5	16	0.9	2.0	38	17.1	1.9	32.7	20.4
HM13-R061	59.6	22	-1.1	1.9	37	15.8	1.7	34.5	19.5
HM13-R079	58.0	26	-2.3	2.3	36	16.0	1.6	35.7	19.2
HM13-S072	57.5	28	3.0	2.3	33	19.3	1.7	37.7	18.7
HM13-T053	61.6	15	1.2	1.9	35	15.1	1.6	35.6	18.6
HM13-W045	61.3	17	0.1	1.5	38	17.1	1.8	35.5	19.3
HM13-W098	59.5	24	1.7	1.9	37	16.6	1.5	36.1	18.8
HM13-W128	59.7	21	-1.1	1.8	35	13.6	1.8	34.6	19.7
K13-1519	63.2	9	9.5	2.4	38	16.1	1.8	34.3	19.5
K13-1523	63.7	8	9.7	2.7	37	14.3	1.8	33.9	19.2
LD12-3866	66.0	4	3.3	1.7	36	14.6	1.8	35.0	19.3
SA12-1018	61.2	18	7.0	1.5	38	15.5	1.7	36.0	19.0
SA12-1338	63.2	9	6.6	1.7	37	16.2	1.7	35.3	19.1
SA12-1340	62.5	11	0.7	2.1	33	13.2	1.6	35.6	18.3
SA12-1455	70.4	1	8.2	1.3	33	17.2	1.8	35.2	19.2
SA12-1914	62.4	12	2.4	1.7	33	13.5	1.7	34.1	19.0
Mean	62.1			1.9	35.8	16.1	2.0		
C.V. (%)	20.8			54.8	15.1	16.8	34.5		
L.S.D. (5%)	8.0			0.7	3.6	2.0	0.6		

122.6 Days After Planting

PRELIMINARY TEST IIIA, 2015

YIELD (bu/a)

Strain	Mean 11 Tests	Boone County IA	Crawfords-ville IA	Urbana IL	West Lafayette IN	Man-hattan KS
IA3023 (III)	64.3	57.8	67.4	69.9	61.9	48.6
IA3024	60.6	58.7	50.7	59.2	66.0	46.3
IA3048 (SCN)	64.5	68.3	61.4	68.5	64.7	50.3
LD07-3395bf (SCN)	67.1	74.5	67.6	74.3	75.2	50.7
AR13-232011	58.6	67.4	59.6	57.9	62.4	42.8
AR13-232073	59.6	66.3	68.1	64.5	59.8	48.5
AR13-332048	65.7	66.4	73.6	76.3	65.9	47.4
AR13-332087	57.6	56.8	58.6	62.0	59.3	38.4
DS11-02178	60.2	59.7	63.1	63.0	61.0	40.2
DS11-03023	62.3	65.3	69.8	65.6	59.9	46.8
DS11-03174	62.1	69.4	60.4	74.7	61.9	48.2
DS11-06152	66.6	66.4	68.1	78.6	62.4	41.7
HM11-G011	61.5	53.6	58.2	72.0	67.1	41.8
HM13-R061	59.6	54.7	71.6	66.8	64.2	40.2
HM13-R079	58.0	57.3	45.6	63.1	63.9	45.7
HM13-S072	57.5	49.6	61.7	70.6	58.9	32.7
HM13-T053	61.6	53.2	62.4	74.6	63.2	43.0
HM13-W045	61.3	53.6	72.9	69.9	60.8	44.3
HM13-W098	59.5	59.2	63.3	70.0	59.5	39.2
HM13-W128	59.7	55.7	56.5	64.3	61.5	40.4
K13-1519	63.2	68.3	64.6	72.0	65.3	45.8
K13-1523	63.7	68.1	60.2	70.4	55.6	42.7
LD12-3866	66.0	61.3	64.3	71.7	62.9	46.7
SA12-1018	61.2	56.4	54.1	71.9	63.2	42.9
SA12-1338	63.2	62.6	65.9	71.4	65.9	41.2
SA12-1340	62.5	56.6	63.2	72.8	58.9	47.0
SA12-1455	70.4	77.0	69.9	80.6	66.2	49.0
SA12-1914	62.4	61.3	60.6	64.3	63.6	48.1
Location Mean		60.5	63.2	70.2	62.7	45.0
C.V. (%)		6.0	9.7	11.0	7.8	6.0
L.S.D. (5%)		8.0	12.5	12.9	7.2	4.5
Row Sp. (In.)		9	30	30	30	30
Rows/Plot		30	4	4	4	4
Reps		4	2	2	2	2

PRELIMINARY TEST IIIA, 2015

YIELD (bu/a)

Strain	Ottawa KS	Clay Center NE	Stevens Creek NE	Wymore NE	Hoyt-ville OH	So Charles-ton OH
IA3023 (III)	42.2	78.3	87.2	65.2	73.0	55.9
IA3024	40.0	77.1	69.0	63.7	84.1	51.8
IA3048 (SCN)	45.2	72.3	82.7	62.3	67.1	66.5
LD07-3395bf (SCN)	47.0	85.1	74.5	62.6	64.1	63.1
AR13-232011	37.7	72.9	62.5	57.1	71.6	52.7
AR13-232073	36.4	71.3	71.8	56.6	68.6	44.2
AR13-332048	39.3	77.3	70.7	62.0	82.1	61.6
AR13-332087	39.5	71.4	65.2	58.4	70.1	53.7
DS11-02178	40.5	76.5	70.2	63.2	74.0	50.3
DS11-03023	39.0	79.3	78.5	63.3	67.0	50.3
DS11-03174	43.1	67.2	71.7	56.2	65.2	65.1
DS11-06152	45.0	77.9	85.3	64.2	75.2	67.7
HM11-G011	42.3	70.9	71.2	59.5	69.6	70.8
HM13-R061	38.6	69.6	61.9	58.3	68.5	61.5
HM13-R079	37.4	69.7	67.6	60.0	75.5	51.9
HM13-S072	36.6	71.6	64.8	52.6	78.0	55.3
HM13-T053	43.0	73.4	64.4	63.4	81.3	56.0
HM13-W045	40.5	72.1	70.4	62.2	76.7	50.7
HM13-W098	40.6	69.3	69.6	61.7	72.5	50.0
HM13-W128	38.2	78.8	70.5	60.9	71.6	58.1
K13-1519	47.3	71.6	61.8	59.0	76.9	62.7
K13-1523	50.9	73.7	68.1	65.5	76.7	69.5
LD12-3866	48.2	78.6	75.6	64.9	82.9	68.8
SA12-1018	44.6	69.8	72.0	60.9	76.3	60.8
SA12-1338	46.8	74.3	70.1	64.4	76.9	56.0
SA12-1340	39.3	75.5	69.6	63.8	75.7	64.7
SA12-1455	46.3	82.5	80.6	68.8	85.4	67.9
SA12-1914	45.5	74.0	76.3	63.8	75.3	53.9
Location Mean	41.4	73.6	70.5	62.3	75.2	57.1
C.V. (%)	3.0	4.6	6.4	7.2	6.5	12.6
L.S.D. (5%)	2.2	8.5	11.3	10.9	10.0	15.0
Row Sp. (In.)	30	30	30	30	7.5	15
Rows/Plot	4	4	4	4	8	6
Reps	2	2	2	2	2	3

PRELIMINARY TEST IIIA, 2015

YIELD RANK

Strain	Yield Rank	Boone County IA	Crawfords-ville IA	Urbana IL	West Lafayette IN	Man-hattan KS
IA3023 (III)	7	18	9	16	17	4
IA3024	19	17	27	27	4	12
IA3048 (SCN)	6	4	18	18	8	2
LD07-3395bf (SCN)	2	2	8	6	1	1
AR13-232011	25	7	22	28	15	18
AR13-232073	22	10	6	21	23	5
AR13-332048	5	8	1	3	5	8
AR13-332087	27	20	23	26	25	27
DS11-02178	20	15	15	25	20	24
DS11-03023	13	11	5	20	22	10
DS11-03174	14	3	20	4	17	6
DS11-06152	3	9	6	2	15	21
HM11-G011	16	26	24	8	2	20
HM13-R061	22	24	3	19	9	25
HM13-R079	26	19	28	24	10	14
HM13-S072	28	28	17	13	26	28
HM13-T053	15	27	16	5	12	16
HM13-W045	17	25	2	16	21	15
HM13-W098	24	16	13	15	24	26
HM13-W128	21	23	25	22	19	23
K13-1519	9	5	11	8	7	13
K13-1523	8	6	21	14	28	19
LD12-3866	4	13	12	11	14	11
SA12-1018	18	22	26	10	12	17
SA12-1338	9	12	10	12	5	22
SA12-1340	11	21	14	7	26	9
SA12-1455	1	1	4	1	3	3
SA12-1914	12	14	19	22	11	7

PRELIMINARY TEST IIIA, 2015

YIELD RANK

Strain	Ottawa KS	Clay Center NE	Stevens Creek NE	Wymore NE	Hoyt-ville OH	So Charles-ton OH
IA3023 (III)	14	6	1	3	16	17
IA3024	18	9	20	9	2	23
IA3048 (SCN)	8	17	3	14	23	6
LD07-3395bf (SCN)	4	1	8	13	26	9
AR13-232011	25	16	26	25	18	21
AR13-232073	28	22	10	26	21	28
AR13-332048	20	8	13	16	4	11
AR13-332087	19	21	23	23	19	20
DS11-02178	17	10	16	12	15	26
DS11-03023	22	3	5	11	24	25
DS11-03174	11	28	11	27	25	7
DS11-06152	9	7	2	6	14	5
HM11-G011	13	23	12	21	20	1
HM13-R061	23	26	27	24	22	12
HM13-R079	26	25	22	20	12	22
HM13-S072	27	19	24	28	6	18
HM13-T053	12	15	25	10	5	15
HM13-W045	16	18	15	15	8	24
HM13-W098	15	27	18	17	17	27
HM13-W128	24	4	14	18	18	14
K13-1519	3	20	28	22	7	10
K13-1523	1	14	21	2	9	2
LD12-3866	2	5	7	4	3	3
SA12-1018	10	24	9	18	10	13
SA12-1338	5	12	17	5	7	15
SA12-1340	20	11	18	7	11	8
SA12-1455	6	2	4	1	1	4
SA12-1914	7	13	6	7	13	19

PRELIMINARY TEST IIIA, 2015

MATURITY (date)

Strain	Mean 10 Tests	Boone County IA	Crawfords-ville IA	Urbana IL	West Lafayette IN	Man-hattan KS
IA3023 (III)	9/24	10/2	9/22	9/11	9/25	9/19
IA3024	-2	-7	-5	-2	-1	2
IA3048 (SCN)	1	0	1	4	0	4
LD07-3395bf (SCN)	5	5	2	8	7	1
AR13-232011	-0	-1	0	3	0	2
AR13-232073	-5	-5	-8	-6	-3	2
AR13-332048	2	1	1	4	0	2
AR13-332087	-0	-2	-6	5	1	2
DS11-02178	2	2	2	6	2	1
DS11-03023	-1	1	-2	-3	0	1
DS11-03174	3	3	1	7	2	1
DS11-06152	0	2	1	5	1	1
HM11-G011	1	3	-2	2	-1	3
HM13-R061	-1	-3	1	1	0	2
HM13-R079	-2	-2	-7	2	1	3
HM13-S072	3	5	3	8	1	3
HM13-T053	1	-2	0	4	1	3
HM13-W045	0	-2	1	3	2	1
HM13-W098	2	2	3	9	1	2
HM13-W128	-1	-5	-3	3	0	2
K13-1519	10	11	8	15	12	4
K13-1523	10	11	13	15	6	5
LD12-3866	3	4	2	7	3	4
SA12-1018	7	8	7	14	8	2
SA12-1338	7	6	6	12	11	3
SA12-1340	1	-1	2	4	2	3
SA12-1455	8	10	7	15	9	2
SA12-1914	2	1	4	5	1	2
Date Planted	5/25	5/13	5/19	5/8	5/27	6/2
Days to Mature	122.6	142	126	126	121	109

PRELIMINARY TEST IIIA, 2015

MATURITY (date)

Strain	Ottawa KS	Clay Center NE	Stevens Creek NE	Wymore NE	Hoyt-ville OH	So Charles-ton OH
IA3023 (III)	10/2	9/27	10/14		9/26	9/10
IA3024	-3	2	-6		-4	2
IA3048 (SCN)	-1	1	-1		-2	5
LD07-3395bf (SCN)	3	3	1		5	11
AR13-232011	-3	-2	-2		0	1
AR13-232073	-7	-5	-6		-6	-3
AR13-332048	-2	2	2		0	6
AR13-332087	-4	-3	-4		-1	7
DS11-02178	1	0	-1		3	5
DS11-03023	-3	-1	-4		-1	1
DS11-03174	2	-1	1		3	7
DS11-06152	-3	-2	-4		0	3
HM11-G011	-1	2	-3		-1	5
HM13-R061	-6	-1	-7		-1	3
HM13-R079	-8	-5	-7		-3	3
HM13-S072	-1	2	-4		4	10
HM13-T053	-3	1	0		1	7
HM13-W045	-5	-3	0		-1	4
HM13-W098	-3	-1	-4		2	7
HM13-W128	-6	0	-6		-2	5
K13-1519	7	6	2		14	17
K13-1523	8	4	4		13	19
LD12-3866	1	-1	0		2	12
SA12-1018	4	4	0		7	17
SA12-1338	4	4	3		3	15
SA12-1340	-4	-2	-1		0	5
SA12-1455	4	3	3		12	18
SA12-1914	0	1	-1		2	9
Date Planted	6/18	6/9	6/2		5/22	5/8
Days to Mature	106	110	134		127	125

PRELIMINARY TEST IIIA, 2015

LODGING (score)

Strain	Mean 9 Tests	Boone County IA	Crawfords-ville IA	Urbana IL	West Lafayette IN	Man-hattan KS
IA3023 (III)	1.6	1.5	2.3	1.0	1.0	1.0
IA3024	1.6	1.0	2.0	1.0	1.0	1.5
IA3048 (SCN)	2.0	2.5	2.5	1.0	1.0	3.5
LD07-3395bf (SCN)	1.3	1.5	2.0	1.0	1.0	1.0
AR13-232011	1.6	1.5	2.3	1.0	1.0	2.0
AR13-232073	2.0	2.5	2.5	1.0	1.0	2.0
AR13-332048	1.6	1.5	2.0	1.0	1.0	2.0
AR13-332087	1.6	1.5	2.5	1.0	1.0	2.0
DS11-02178	1.4	1.0	2.0	1.0	1.3	1.0
DS11-03023	1.6	1.5	2.5	1.0	1.0	1.0
DS11-03174	1.4	1.5	2.3	1.0	1.0	1.0
DS11-06152	1.3	1.0	2.0	1.0	1.0	1.0
HM11-G011	2.0	2.0	2.5	1.0	1.0	3.0
HM13-R061	1.9	1.0	2.5	1.0	1.0	1.5
HM13-R079	2.3	2.5	3.8	1.0	1.0	3.0
HM13-S072	2.3	2.5	2.8	1.5	1.0	3.0
HM13-T053	1.9	2.0	2.8	1.5	1.0	3.0
HM13-W045	1.5	1.0	2.3	1.0	1.0	1.0
HM13-W098	1.9	2.5	2.5	1.0	1.0	1.5
HM13-W128	1.8	1.5	2.8	1.0	1.3	2.0
K13-1519	2.4	3.0	2.8	2.3	1.3	3.5
K13-1523	2.7	3.0	3.0	2.5	1.1	4.5
LD12-3866	1.7	1.0	2.5	1.0	1.0	3.5
SA12-1018	1.5	2.0	2.8	1.3	1.0	1.5
SA12-1338	1.7	2.0	2.8	1.0	1.0	2.5
SA12-1340	2.1	2.0	2.5	2.0	1.0	2.5
SA12-1455	1.3	1.5	2.5	1.0	1.0	1.5
SA12-1914	1.7	1.0	2.3	1.3	1.0	2.0

PRELIMINARY TEST IIIA, 2015

LODGING (score)

Strain	Ottawa KS	Clay Center NE	Stevens Creek NE	Wymore NE	Hoyt-ville OH	So Charles-ton OH
IA3023 (III)	1.0		2.5		1.0	3.5
IA3024	1.0		3.0		1.0	3.0
IA3048 (SCN)	1.0		3.0		1.0	2.4
LD07-3395bf (SCN)	1.1		2.0		1.0	1.1
AR13-232011	1.0		2.0		1.0	2.6
AR13-232073	1.0		4.0		1.0	2.9
AR13-332048	1.0		2.5		1.0	2.4
AR13-332087	1.0		2.0		1.0	2.2
DS11-02178	1.0		1.5		1.0	2.5
DS11-03023	1.0		2.0		1.0	3.7
DS11-03174	1.0		2.5		1.0	1.6
DS11-06152	1.0		2.5		1.0	0.9
HM11-G011	1.0		3.5		1.0	3.2
HM13-R061	1.0		4.0		1.0	3.8
HM13-R079	1.1		3.5		1.0	3.7
HM13-S072	1.0		5.0		1.0	2.9
HM13-T053	1.0		3.0		1.0	2.0
HM13-W045	1.0		3.0		1.0	2.4
HM13-W098	1.0		3.5		1.0	2.8
HM13-W128	1.0		2.5		1.0	2.8
K13-1519	1.0		2.5		1.5	4.1
K13-1523	1.0		3.5		1.5	4.1
LD12-3866	1.0		2.5		1.0	2.0
SA12-1018	1.0		1.5		1.0	1.8
SA12-1338	1.0		2.0		1.0	2.2
SA12-1340	1.0		3.5		1.0	3.1
SA12-1455	1.0		1.5		1.0	1.1
SA12-1914	1.0		3.5		1.0	2.2

PRELIMINARY TEST IIIA, 2015

PLANT HEIGHT (inches)

Strain	Mean 9 Tests	Boone County IA	Crawfords-ville IA	Urbana IL	West Lafayette IN	Man-hattan KS
IA3023 (III)	34	38	42	33	28	38
IA3024	34	39	33	32	26	40
IA3048 (SCN)	34	40	34	32	28	38
LD07-3395bf (SCN)	32	37	36	32	30	34
AR13-232011	34	40	37	31	25	38
AR13-232073	33	41	37	33	26	37
AR13-332048	35	39	39	35	27	39
AR13-332087	35	41	37	36	24	38
DS11-02178	36	41	43	32	30	42
DS11-03023	34	40	39	31	25	38
DS11-03174	33	38	40	31	27	35
DS11-06152	32	36	38	33	22	35
HM11-G011	38	44	43	37	32	40
HM13-R061	37	38	45	37	30	42
HM13-R079	36	42	41	32	32	38
HM13-S072	33	36	39	37	25	37
HM13-T053	35	43	39	38	30	37
HM13-W045	38	42	45	39	30	39
HM13-W098	37	43	41	38	28	38
HM13-W128	35	40	41	34	30	37
K13-1519	38	39	49	40	28	41
K13-1523	37	41	41	37	29	42
LD12-3866	36	38	44	35	31	39
SA12-1018	38	44	40	40	34	41
SA12-1338	37	41	47	37	30	41
SA12-1340	33	38	38	36	28	34
SA12-1455	33	38	39	31	25	35
SA12-1914	33	39	33	31	26	38

PRELIMINARY TEST IIIA, 2015

PLANT HEIGHT (inches)

Strain	Ottawa KS	Clay Center NE	Stevens Creek NE	Wymore NE	Hoyt-ville OH	So Charles-ton OH
IA3023 (III)	26		41		27	34
IA3024	31		42		30	33
IA3048 (SCN)	30		38		29	35
LD07-3395bf (SCN)	27		39		26	30
AR13-232011	27		43		31	35
AR13-232073	27		38		27	29
AR13-332048	28		41		31	34
AR13-332087	29		45		30	35
DS11-02178	29		42		29	34
DS11-03023	27		44		28	33
DS11-03174	25		44		26	33
DS11-06152	24		42		28	33
HM11-G011	33		45		35	35
HM13-R061	31		40		32	39
HM13-R079	28		41		32	35
HM13-S072	28		32		32	32
HM13-T053	27		37		31	35
HM13-W045	32		40		36	35
HM13-W098	30		44		35	34
HM13-W128	28		41		32	35
K13-1519	33		42		34	36
K13-1523	33		41		33	37
LD12-3866	29		41		32	34
SA12-1018	31		44		35	33
SA12-1338	31		43		34	35
SA12-1340	28		38		30	32
SA12-1455	25		41		31	30
SA12-1914	31		40		29	33

PRELIMINARY TEST IIIA, 2015

SEED SIZE (g/100)

Strain	Mean 9 Tests	Boone County IA	Crawfords-ville IA	Urbana IL	West Lafayette IN	Man-hattan KS
IA3023 (III)	15.7		13.4	16.9	15.2	13.6
IA3024	16.7		12.3	16.4	14.9	15.6
IA3048 (SCN)	15.1		12.8	16.3	14.2	11.4
LD07-3395bf (SCN)	15.9		14.4	16.9	15.0	12.4
AR13-232011	13.6		11.5	13.4	12.0	10.0
AR13-232073	17.6		15.1	17.2	15.9	15.2
AR13-332048	14.8		15.5	18.1	15.5	13.2
AR13-332087	14.2		11.1	14.7	14.2	11.2
DS11-02178	18.5		15.4	19.5	17.9	14.7
DS11-03023	14.8		13.1	15.1	14.1	11.1
DS11-03174	16.3		13.4	17.5	16.0	13.1
DS11-06152	15.6		13.0	16.3	14.7	12.1
HM11-G011	17.1		14.2	17.8	16.4	14.2
HM13-R061	15.8		15.5	15.6	14.8	11.4
HM13-R079	16.0		13.3	16.0	16.1	13.5
HM13-S072	19.3		16.7	19.5	18.8	15.1
HM13-T053	15.1		12.5	15.4	13.1	10.9
HM13-W045	17.1		14.5	17.5	15.9	13.5
HM13-W098	16.6		15.4	16.8	15.6	12.9
HM13-W128	13.6		12.0	12.6	12.5	11.2
K13-1519	16.1		14.8	16.8	14.8	13.4
K13-1523	14.3		13.2	14.3	13.5	12.9
LD12-3866	14.6		13.4	14.9	13.0	11.2
SA12-1018	15.5		13.0	16.4	14.4	12.9
SA12-1338	16.2		15.2	16.4	14.6	15.5
SA12-1340	13.2		11.8	13.5	12.3	12.0
SA12-1455	17.2		15.3	17.9	16.5	13.9
SA12-1914	13.5		12.1	13.2	13.0	11.1

PRELIMINARY TEST IIIA, 2015

SEED SIZE (g/100)

Strain	Ottawa KS	Clay Center NE	Stevens Creek NE	Wymore NE	Hoyt-ville OH	So Charles-ton OH
IA3023 (III)	17.8	15.0	17.0		17.2	15.6
IA3024	18.3	20.0	18.0		18.0	17.1
IA3048 (SCN)	17.8	16.0	17.0		15.2	15.2
LD07-3395bf (SCN)	17.2	18.0	18.0		15.0	16.4
AR13-232011	17.0	14.0	16.0		14.4	14.1
AR13-232073	22.6	18.0	19.0		18.2	17.4
AR13-332048	0.0	17.0	18.0		18.9	17.2
AR13-332087	15.8	15.0	16.0		15.1	14.9
DS11-02178	22.4	19.0	20.0		19.7	18.2
DS11-03023	17.2	16.0	16.0		15.3	14.9
DS11-03174	18.7	15.0	17.0		17.4	18.4
DS11-06152	18.0	17.0	17.0		15.7	16.4
HM11-G011	18.9	18.0	19.0		18.0	17.6
HM13-R061	17.2	17.0	18.0		15.8	16.8
HM13-R079	17.9	16.0	18.0		17.3	15.9
HM13-S072	21.7	20.0	21.0		20.9	19.8
HM13-T053	17.1	17.0	17.0		16.1	16.3
HM13-W045	19.5	18.0	19.0		18.9	16.8
HM13-W098	18.5	18.0	18.0		17.4	16.5
HM13-W128	15.3	15.0	15.0		14.3	14.4
K13-1519	18.1	16.0	18.0		15.5	17.4
K13-1523	15.8	15.0	15.0		13.7	15.4
LD12-3866	17.5	15.0	17.0		15.0	14.6
SA12-1018	17.4	16.0	16.0		16.6	16.7
SA12-1338	16.4	17.0	18.0		16.4	16.2
SA12-1340	13.6	14.0	15.0		13.0	13.8
SA12-1455	19.3	17.0	19.0		17.9	18.2
SA12-1914	14.1	15.0	15.0		13.2	14.7

PRELIMINARY TEST IIIA, 2015

SEED QUALITY (score)

Strain	Mean 9 Tests	Boone County IA	Crawfords-ville IA	Urbana IL	West Lafayette IN	Man-hattan KS
IA3023 (III)	1.3		1.0	1.0	1.0	2.0
IA3024	1.9		2.0	2.0	1.0	2.0
IA3048 (SCN)	1.9		1.0	2.0	1.0	3.0
LD07-3395bf (SCN)	1.9		2.0	2.0	1.0	3.0
AR13-232011	1.7		1.0	2.0	1.0	3.0
AR13-232073	2.0		1.0	3.0	1.0	3.0
AR13-332048	1.6		1.0	2.0	1.0	3.0
AR13-332087	2.0		2.0	1.0	1.5	3.0
DS11-02178	1.8		1.0	2.0	1.5	3.0
DS11-03023	1.7		2.0	1.0	1.0	3.0
DS11-03174	1.9		2.0	2.0	1.5	2.0
DS11-06152	1.6		1.0	1.0	1.0	3.0
HM11-G011	1.9		2.0	2.0	1.0	3.0
HM13-R061	1.7		2.0	1.0	1.0	3.0
HM13-R079	1.6		1.0	1.0	1.0	3.0
HM13-S072	1.7		1.0	2.0	1.5	2.0
HM13-T053	1.6		1.0	1.0	1.5	3.0
HM13-W045	1.8		2.0	1.0	1.5	3.0
HM13-W098	1.5		2.0	1.0	1.5	2.0
HM13-W128	1.8		2.0	1.0	1.0	3.0
K13-1519	1.8		2.0	2.0	1.5	3.0
K13-1523	1.8		2.0	2.0	1.0	3.0
LD12-3866	1.8		2.0	2.0	1.5	2.0
SA12-1018	1.7		1.0	2.0	1.0	3.0
SA12-1338	1.7		1.0	2.0	1.5	3.0
SA12-1340	1.6		1.0	1.0	1.0	3.0
SA12-1455	1.8		1.0	2.0	1.5	3.0
SA12-1914	1.7		1.0	2.0	1.0	3.0

PRELIMINARY TEST IIIA, 2015

SEED QUALITY (score)

Strain	Ottawa KS	Clay Center NE	Stevens Creek NE	Wymore NE	Hoyt-ville OH	So Charles-ton OH
IA3023 (III)	2.0	1.0	2.0		1.0	1.0
IA3024	3.0	2.0	2.0		1.0	2.0
IA3048 (SCN)	3.0	2.0	2.0		1.0	2.0
LD07-3395bf (SCN)	3.0	2.0	2.0		1.0	1.5
AR13-232011	2.0	2.0	2.0		1.0	1.0
AR13-232073	2.0	2.0	3.0		1.0	2.0
AR13-332048	0.0	2.0	2.0		1.0	2.5
AR13-332087	3.0	2.0	3.0		1.0	1.5
DS11-02178	3.0	1.0	2.0		1.0	1.5
DS11-03023	2.0	2.0	2.0		1.0	1.0
DS11-03174	3.0	2.0	2.0		1.0	1.5
DS11-06152	2.0	2.0	2.0		1.0	1.0
HM11-G011	3.0	2.0	2.0		1.0	1.5
HM13-R061	2.0	2.0	2.0		1.0	1.5
HM13-R079	2.0	2.0	2.0		1.0	1.5
HM13-S072	3.0	2.0	2.0		1.0	1.0
HM13-T053	1.0	2.0	2.0		1.0	1.5
HM13-W045	2.0	2.0	2.0		1.0	1.5
HM13-W098	2.0	1.0	2.0		1.0	1.0
HM13-W128	3.0	2.0	2.0		1.0	1.0
K13-1519	1.0	2.0	2.0		1.0	2.0
K13-1523	2.0	2.0	2.0		1.0	1.5
LD12-3866	3.0	2.0	2.0		1.0	1.0
SA12-1018	2.0	1.0	2.0		1.0	2.0
SA12-1338	2.0	2.0	2.0		1.0	1.0
SA12-1340	2.0	2.0	2.0		1.0	1.0
SA12-1455	2.0	2.0	2.0		1.0	1.5
SA12-1914	2.0	2.0	2.0		1.0	1.5

PRELIMINARY TEST IIIA, 2015

PROTEIN (%)

Strain	Mean 5 Tests	Urbana IL	West Lafayette IN	Man-hattan KS	Clay Center NE	Hoytville OH
IA3023 (III)	33.5	32.6	33.2	33.9	33.7	33.9
IA3024	34.0	32.6	32.8	34.7	35.2	34.7
IA3048 (SCN)	34.4	34.3	34.3	35.6	34.4	33.5
LD07-3395bf (SCN)	32.3	32.2	32.8	34.1	33.4	29.0
AR13-232011	34.6	33.2	33.9	36.0	34.8	34.8
AR13-232073	34.7	34.7	34.2	35.4	34.2	34.9
AR13-332048	35.4	35.2	34.5	36.2	35.6	35.7
AR13-332087	34.0	32.1	34.1	36.1	33.3	34.4
DS11-02178	34.7	34.3	34.1	35.3	35.0	34.6
DS11-03023	32.8	32.0	32.3	33.8	33.5	32.3
DS11-03174	33.3	33.1	33.5	33.6	34.0	32.2
DS11-06152	33.0	32.3	33.0	34.9	33.2	31.7
HM11-G011	32.7	32.7	32.2	34.2	33.5	31.0
HM13-R061	34.5	32.8	35.2	36.2	35.9	32.2
HM13-R079	35.7	34.4	35.2	37.2	35.2	36.6
HM13-S072	37.7	36.7	36.6	39.7	37.9	37.4
HM13-T053	35.6	34.1	35.0	36.8	36.4	35.7
HM13-W045	35.5	34.6	35.3	37.1	36.2	34.3
HM13-W098	36.1	35.0	36.3	37.6	37.1	34.7
HM13-W128	34.6	33.0	34.4	35.7	35.9	33.8
K13-1519	34.3	33.7	33.7	34.8	34.8	34.7
K13-1523	33.9	33.5	33.3	34.3	34.3	33.9
LD12-3866	35.0	33.4	34.4	36.9	34.8	35.5
SA12-1018	36.0	33.5	35.9	37.0	36.9	36.6
SA12-1338	35.3	36.7	35.1	35.3	35.5	33.9
SA12-1340	35.6	35.5	35.1	35.6	36.0	35.7
SA12-1455	35.2	33.9	35.1	35.9	36.5	34.5
SA12-1914	34.1	35.1	33.8	34.5	34.7	32.2

PRELIMINARY TEST IIIA, 2015

OIL (%)

Strain	Mean 5 Tests	Urbana IL	West Lafayette IN	Man-hattan KS	Clay Center NE	Hoytville OH
IA3023 (III)	19.8	20.3	20.1	19.9	19.2	19.6
IA3024	20.0	20.8	20.4	20.0	19.2	19.8
IA3048 (SCN)	19.3	19.6	19.5	18.7	19.0	19.9
LD07-3395bf (SCN)	20.5	20.7	20.3	19.4	20.1	22.2
AR13-232011	19.4	20.5	19.7	18.1	19.4	19.4
AR13-232073	19.7	20.0	19.9	19.5	19.4	19.7
AR13-332048	19.4	19.6	20.0	18.9	18.9	19.5
AR13-332087	19.5	20.6	19.8	17.9	19.8	19.3
DS11-02178	19.6	19.9	20.2	19.2	19.2	19.7
DS11-03023	20.2	20.7	20.7	19.3	19.6	20.5
DS11-03174	19.5	20.0	19.5	19.3	18.8	20.2
DS11-06152	19.5	20.2	19.8	17.9	19.2	20.2
HM11-G011	20.4	20.6	20.7	20.0	19.5	21.0
HM13-R061	19.5	20.4	19.6	18.4	18.3	20.6
HM13-R079	19.2	20.3	19.6	18.3	18.9	19.0
HM13-S072	18.7	19.1	19.3	17.9	18.3	18.9
HM13-T053	18.6	19.4	19.0	17.6	18.2	18.9
HM13-W045	19.3	19.8	19.4	18.7	18.7	19.7
HM13-W098	18.8	19.5	18.8	17.9	18.5	19.3
HM13-W128	19.7	20.3	19.7	19.1	19.2	20.1
K13-1519	19.5	19.7	19.4	19.6	19.3	19.3
K13-1523	19.2	19.3	19.4	19.9	18.8	18.8
LD12-3866	19.3	20.2	19.8	18.1	19.5	19.1
SA12-1018	19.0	20.3	18.9	18.4	18.5	18.7
SA12-1338	19.1	18.8	19.0	19.5	18.7	19.5
SA12-1340	18.3	19.1	18.1	18.5	17.9	18.0
SA12-1455	19.2	18.8	19.5	18.9	19.0	19.7
SA12-1914	19.0	19.6	18.7	18.9	18.5	19.4

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PRELIMINARY TEST IIIB, 2015

Ent.	Strain	Parentage	Seed Source	Gen. Comp.	Unique Traits
1	IA3023 (III)	Dairyland DSR-365 x Pioneer P9381	Fehr	F5	
2.	IA3024	A97-553017 x Pioneer YB33A99	Fehr		1% Linolenic
3.	IA3048 (SCN)	Dairyland 99540 x IA2068	Fehr	F4	SCN
4.	LD07-3395bf (SCN)	LD07-3395 Reselection	Diers	F5	SCN
5.	HR10-3342	LG01-4918 x H-2885	Mian	F5	Diversity
6.	HR10-3487	F3:4 LG00-8298 x H-2885	Mian	F5	Diversity
7.	LG13-1006	LG05-4229 x LG04-5187	Nelson	F6	Diversity
8.	LG13-1107	LG04-4468 x U02-242055	Nelson	F6	Diversity
9.	LG13-2240	LG04-5993 x LG04-5196	Nelson	F6	Diversity
10.	LG13-3844	LG04-5993 x LG04-5196	Nelson	F6	Diversity
11.	LG13-3861	LG04-5993 x LG04-5196	Nelson	F6	Diversity
12.	LG13-4001	LG04-5187 x LG05-4092	Nelson	F6	Diversity
13.	LG13-4038	LG04-5187 x LG05-4092	Nelson	F6	Diversity
14.	U12-209068	U00-409006 x Dairyland 75517	Graef	F5	SCN
15.	U12-330200	Dairyland 75517 x K07-1544	Graef	F5	SCN
16.	U12-415209	U00-409006 x LG06-2354	Graef	F5	
17.	U12-416214	U00-409006 x LG06-2354	Graef	F5	
18.	U12-428210	Dairyland 75517 x K07-1544	Graef	F5	SCN
19.	U12-428214	Dairyland 75517 x K07-1544	Graef	F5	SCN
20.	U13-602187	U03-260216 x U10-425065	Graef	F5	Rps, SCN
21.	U13-602194	U03-260216 x U10-425065	Graef	F5	Rps, SCN
22.	U13-605123	U09-323109 x U09-312115	Graef	F5	Rps
23.	U13-614037	U09-233044 x U09-312115	Graef	F5	Rps
24.	U13-614123	U09-311114 x U09-323109	Graef	F5	Rps
25.	U13-615123	U09-311114 x U10-425065	Graef	F5	Rps, SCN
26.	U13-617037	U09-312115 x U10-425065	Graef	F5	Rps, SCN
27.	U13-618135	U03-260216 x U10-425065	Graef	F5	Rps, SCN
28.	U13-931068	U03-260216 x U10-425065	Graef	F5	Rps, SCN

PRELIMINARY TEST IIIB, 2015

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	Shattering Score Manhattan	Green Stem Score So. Charleston	SDS Data Crawfordsville DX Rank
IA3023 (III)	WTTYBI	1.0	1.0	7.8
IA3024	PGTSYDibI	1.0	1.0	43.3
IA3048 (SCN)	WGTIYYI	1.0	1.0	7.5
LD07-3395bf (SCN)	WGTSYBfI	0.0	3.0	1.7
HR10-3342	WTTSYBI	2.0	1.5	8.3
HR10-3487	WTBIYBI	3.0	1.5	26.7
LG13-1006	WTBIYGI	1.0	1.5	1.1
LG13-1107	WTBSYBI	1.0	3.0	9.7
LG13-2240	WTBSYBI	2.0	1.0	4.5
LG13-3844	WTBIYBI	1.0	1.5	7.5
LG13-3861	WTBSYBI	2.0	1.5	2.5
LG13-4001	WTBSLgBI	1.0	3.5	2.2
LG13-4038	PTBSYBI	1.0	3.0	0.9
U12-209068	P+WTBSYBI	3.0	2.5	1.1
U12-330200	PTTDYBI	1.0	4.5	0.7
U12-415209	WTTSYBI	0.0	1.5	32.3
U12-416214	WTBSYBI	2.0	2.5	29.2
U12-428210	WTBSYBI	1.0	1.5	5.9
U12-428214	PTBIYBI	1.0	3.5	1.8
U13-602187	PTTIYBI	1.0	1.0	7.5
U13-602194	PTTSYBI	2.0	1.0	3.3
U13-605123	PTTSYBI	1.0	1.0	25.6
U13-614037	PT+GTIYBI	1.0	1.5	21.1
U13-614123	P+WTTSYBI	2.0	1.0	20.0
U13-615123	WGTIYB+BfI	1.0	2.5	9.2
U13-617037	PTBIYBI	1.0	1.0	22.5
U13-618135	PGTIYDibI	1.0	1.0	19.8
U13-931068	PT+GB+TIYBI	0.0	2.5	10.3

PRELIMINARY TEST IIIB, 2015

REGIONAL SUMMARY

No. of Tests Strain	Yield 11 bu/a	Rank 11 No.	Maturity 10 Date	Lodging 9 Score	Plant Height 9 In.	Seed Size 9 g/100	Seed Quality 9 Score	Composition Protein 5 %	 Oil 5 %
IA3023 (III)	60.8	15	9/23	1.5	32	15.8	1.7	33.7	19.9
IA3024	58.5	24	-2.1	1.7	33	15.8	1.9	33.9	20.0
IA3048 (SCN)	62.3	6	0.4	2.2	34	14.7	1.7	34.4	19.2
LD07-3395bf (SCN)	67.1	1	4.4	1.6	32	16.3	1.7	32.6	20.5
HR10-3342	60.1	17	4.4	2.1	34	16.1	1.8	34.4	18.4
HR10-3487	58.0	27	-2.3	1.8	33	15.8	1.7	34.9	18.8
LG13-1006	63.7	3	1.2	1.9	36	17.6	1.8	35.0	20.0
LG13-1107	59.6	20	0.9	2.2	36	15.9	1.7	34.9	19.7
LG13-2240	61.5	12	2.1	2.2	40	16.1	1.6	34.6	19.1
LG13-3844	59.0	23	2.9	2.1	38	14.9	1.6	35.1	18.4
LG13-3861	60.6	16	5.5	2.0	40	14.9	1.7	35.6	18.0
LG13-4001	61.3	14	6.5	2.0	37	16.0	1.6	36.4	19.3
LG13-4038	61.7	10	6.7	1.9	38	15.7	1.4	35.2	19.9
U12-209068	63.2	4	4.1	1.9	34	17.2	1.6	34.7	19.6
U12-330200	61.7	10	5.5	1.3	33	15.8	1.8	35.0	19.1
U12-415209	61.4	13	4.5	1.7	35	14.9	1.3	33.9	19.5
U12-416214	58.2	25	2.9	1.2	34	16.4	1.8	34.9	19.2
U12-428210	64.4	2	7.2	1.5	36	15.1	1.6	34.5	19.5
U12-428214	62.7	5	7.8	2.1	37	16.2	1.7	33.9	19.9
U13-602187	62.1	8	2.3	1.3	34	13.9	1.9	34.8	19.4
U13-602194	57.9	28	2.8	1.2	37	14.2	1.7	36.0	19.1
U13-605123	59.3	22	1.3	1.3	36	13.5	1.4	33.6	20.2
U13-614037	62.1	8	0.9	1.2	36	13.5	1.6	32.9	20.2
U13-614123	60.1	17	3.5	1.6	37	13.7	1.9	33.9	19.5
U13-615123	59.4	21	3.6	1.8	40	15.0	1.9	34.3	19.7
U13-617037	58.2	25	1.0	1.8	42	14.2	2.0	34.4	19.8
U13-618135	59.7	19	3.3	1.2	35	13.9	1.6	35.0	19.4
U13-931068	62.3	6	3.1	1.4	35	15.7	1.7	34.3	19.1
Mean	61.5			1.8	37.3	15.8	1.9		
C.V. (%)	20.2			53.3	14.9	13.7	38.3		
L.S.D. (5%)	7.8			0.6	3.6	1.7	0.6		

120.4 Days After Planting

PRELIMINARY TEST IIIB, 2015

YIELD (bu/a)

Strain	Mean 11 Tests	Boone County IA	Crawfords-ville IA	Urbana IL	West Lafayette IN	Man-hattan KS
IA3023 (III)	60.8	65.4	69.8	58.8	47.7	41.9
IA3024	58.5	67.3	46.0	54.2	52.0	47.7
IA3048 (SCN)	62.3	69.9	61.6	56.3	56.4	53.5
LD07-3395bf (SCN)	67.1	68.3	71.7	63.3	60.3	53.3
HR10-3342	60.1	61.6	53.9	66.6	58.4	40.2
HR10-3487	58.0	66.9	58.0	54.6	47.9	39.3
LG13-1006	63.7	63.8	71.9	63.7	49.5	44.5
LG13-1107	59.6	61.3	63.7	58.4	60.2	46.3
LG13-2240	61.5	59.2	62.9	70.9	57.6	39.0
LG13-3844	59.0	58.2	60.0	64.4	56.8	42.7
LG13-3861	60.6	58.2	63.3	74.9	57.1	37.4
LG13-4001	61.3	60.4	68.0	72.7	58.4	33.4
LG13-4038	61.7	59.3	61.7	75.6	58.5	37.6
U12-209068	63.2	66.1	63.0	68.3	59.4	40.8
U12-330200	61.7	69.7	62.4	62.9	53.7	46.2
U12-415209	61.4	65.2	50.2	64.3	56.2	36.7
U12-416214	58.2	65.7	45.8	61.9	48.4	41.8
U12-428210	64.4	61.5	68.2	70.4	63.3	36.9
U12-428214	62.7	70.1	63.3	62.7	57.0	39.8
U13-602187	62.1	69.9	56.8	62.0	57.0	36.4
U13-602194	57.9	61.2	59.5	63.0	58.7	34.7
U13-605123	59.3	62.3	54.2	62.2	49.4	42.5
U13-614037	62.1	61.8	57.2	68.5	57.9	47.5
U13-614123	60.1	66.2	55.8	63.6	51.9	36.4
U13-615123	59.4	60.8	51.5	65.6	63.1	41.7
U13-617037	58.2	57.2	58.1	65.1	59.6	43.3
U13-618135	59.7	68.8	57.9	63.8	56.5	44.1
U13-931068	62.3	63.4	58.5	69.9	54.9	37.5
Location Mean		63.6	59.8	63.7	57.0	41.2
C.V. (%)		7.2	8.7	7.4	9.8	8.4
L.S.D. (5%)		9.3	10.6	8.1	10.4	5.9
Row Sp. (In.)		30	30	30	30	30
Rows/Plot		4	4	4	4	4
Reps		2	2	2	2	2

PRELIMINARY TEST IIIB, 2015

YIELD (bu/a)

Strain	Ottawa KS	Clay Center NE	Stevens Creek NE	Wymore NE	Hoyt-ville OH	So Charles-ton OH
IA3023 (III)	42.2	76.8	82.3	60.4	71.9	51.9
IA3024	38.8	78.2	65.8	58.9	84.0	50.5
IA3048 (SCN)	49.7	75.3	69.7	59.9	75.8	57.3
LD07-3395bf (SCN)	52.0	81.6	77.3	65.1	77.3	68.1
HR10-3342	49.2	71.0	72.2	59.5	78.2	50.1
HR10-3487	38.1	71.1	73.5	61.5	72.8	54.3
LG13-1006	46.9	80.7	76.6	63.9	79.4	59.4
LG13-1107	44.7	71.0	63.0	58.1	70.8	57.6
LG13-2240	47.2	67.6	78.9	58.1	75.8	59.0
LG13-3844	45.1	71.0	66.0	60.7	74.7	49.2
LG13-3861	47.1	71.9	67.5	57.8	79.4	52.2
LG13-4001	51.2	67.2	77.4	55.9	74.4	55.6
LG13-4038	46.3	70.5	77.3	57.3	71.5	62.8
U12-209068	47.2	72.7	71.1	63.7	71.2	72.0
U12-330200	43.0	75.2	69.9	64.4	68.6	62.7
U12-415209	50.1	71.4	81.6	59.2	87.0	53.4
U12-416214	47.3	71.3	69.7	56.8	73.7	57.5
U12-428210	46.7	75.6	82.5	59.9	75.5	67.8
U12-428214	46.1	70.6	76.3	62.1	76.2	65.2
U13-602187	45.0	79.8	74.4	62.0	80.9	59.4
U13-602194	40.6	70.5	69.5	62.1	74.4	42.4
U13-605123	42.6	75.8	67.7	64.3	74.7	56.4
U13-614037	47.0	74.1	78.7	62.8	77.8	49.7
U13-614123	46.2	70.3	74.9	63.9	78.1	53.4
U13-615123	41.4	66.9	70.3	62.6	72.5	56.5
U13-617037	45.7	70.6	65.4	58.3	68.8	48.6
U13-618135	47.6	72.9	68.8	59.1	62.5	54.8
U13-931068	45.7	72.4	81.0	62.4	74.9	64.9
Location Mean	46.3	71.7	72.9	60.6	74.8	56.5
C.V. (%)	4.5	4.4	5.8	7.0	5.8	13.5
L.S.D. (5%)	3.5	8.0	10.4	10.4	9.0	16.0
Row Sp. (In.)	30	30	30	30	7.5	15
Rows/Plot	4	4	4	4	8	6
Reps	2	2	2	2	2	3

PRELIMINARY TEST IIIB, 2015

YIELD RANK

Strain	Yield Rank	Boone County IA	Crawfords-ville IA	Urbana IL	West Lafayette IN	Man-hattan KS
IA3023 (III)	15	12	3	24	28	12
IA3024	24	7	27	28	22	3
IA3048 (SCN)	6	3	13	26	18	1
LD07-3395bf (SCN)	1	6	2	17	3	2
HR10-3342	17	18	24	9	9	16
HR10-3487	27	8	18	27	27	18
LG13-1006	3	14	1	15	24	7
LG13-1107	20	20	6	25	4	5
LG13-2240	12	25	10	4	12	19
LG13-3844	23	26	14	12	16	10
LG13-3861	16	27	7	2	13	22
LG13-4001	14	23	5	3	9	28
LG13-4038	10	24	12	1	8	20
U12-209068	4	10	9	8	6	15
U12-330200	10	4	11	19	21	6
U12-415209	13	13	26	13	19	24
U12-416214	25	11	28	23	26	13
U12-428210	2	19	4	5	1	23
U12-428214	5	1	8	20	14	17
U13-602187	8	2	21	22	14	26
U13-602194	28	21	15	18	7	27
U13-605123	22	16	23	21	25	11
U13-614037	8	17	20	7	11	4
U13-614123	17	9	22	16	23	25
U13-615123	21	22	25	10	2	14
U13-617037	25	28	17	11	5	9
U13-618135	19	5	19	14	17	8
U13-931068	6	15	16	6	20	21

PRELIMINARY TEST IIIB, 2015

YIELD RANK

Strain	Ottawa KS	Clay Center NE	Stevens Creek NE	Wymore NE	Hoyt-ville OH	So Charles-ton OH
IA3023 (III)	24	5	2	15	18	22
IA3024	27	4	26	21	2	23
IA3048 (SCN)	4	8	19	16	10	13
LD07-3395bf (SCN)	1	1	8	1	8	2
HR10-3342	5	18	15	18	5	24
HR10-3487	28	17	14	13	16	18
LG13-1006	12	2	10	4	4	8
LG13-1107	21	18	28	23	21	11
LG13-2240	9	26	5	23	10	10
LG13-3844	19	18	25	14	13	26
LG13-3861	10	14	24	25	4	21
LG13-4001	2	27	7	28	14	16
LG13-4038	14	23	8	26	19	6
U12-209068	8	12	16	6	20	1
U12-330200	22	9	18	2	23	7
U12-415209	3	15	3	19	1	19
U12-416214	7	16	19	27	15	12
U12-428210	13	7	1	16	11	3
U12-428214	16	21	11	10	9	4
U13-602187	20	3	13	12	3	8
U13-602194	26	23	21	10	14	28
U13-605123	23	6	23	3	13	15
U13-614037	11	10	6	7	7	25
U13-614123	15	25	12	4	6	19
U13-615123	25	28	17	8	17	14
U13-617037	18	21	27	22	22	27
U13-618135	6	11	22	20	24	17
U13-931068	17	13	4	9	12	5

PRELIMINARY TEST IIIB, 2015

MATURITY (date)

Strain	Mean 10 Tests	Boone County IA	Crawfords-ville IA	Urbana IL	West Lafayette IN	Man-hattan KS
IA3023 (III)	9/23	10/3	9/22	9/11	9/24	9/16
IA3024	-2	-5	-8	-5	0	-1
IA3048 (SCN)	0	2	0	2	1	1
LD07-3395bf (SCN)	4	3	4	7	5	1
HR10-3342	4	9	1	6	6	2
HR10-3487	-2	-3	-6	-1	1	0
LG13-1006	1	0	-1	3	1	1
LG13-1107	1	-2	-3	3	2	1
LG13-2240	2	2	2	4	3	3
LG13-3844	3	2	3	4	4	2
LG13-3861	6	9	5	8	5	2
LG13-4001	7	11	5	10	6	1
LG13-4038	7	9	5	11	6	3
U12-209068	4	6	3	7	4	1
U12-330200	6	9	4	7	5	1
U12-415209	5	7	-2	7	3	5
U12-416214	3	2	-2	6	4	1
U12-428210	7	11	5	10	10	3
U12-428214	8	11	3	10	9	2
U13-602187	2	3	1	6	7	0
U13-602194	3	4	3	8	5	2
U13-605123	1	-1	-2	3	5	1
U13-614037	1	-2	-2	3	4	1
U13-614123	3	4	3	5	6	2
U13-615123	4	5	2	5	7	1
U13-617037	1	-1	-3	5	4	1
U13-618135	3	2	2	7	5	2
U13-931068	3	3	0	7	5	1
Date Planted	5/25	5/19	5/19	5/8	5/27	6/2
Days to Mature	120.4	137	126	126	120	106

PRELIMINARY TEST IIIB, 2015

MATURITY (date)

Strain	Ottawa KS	Clay Center NE	Stevens Creek NE	Wymore NE	Hoyt-ville OH	So Charles-ton OH
IA3023 (III)	10/1	9/24	10/2		9/27	9/12
IA3024	-3	4	-4		-3	3
IA3048 (SCN)	0	0	0		-2	0
LD07-3395bf (SCN)	3	5	4		4	8
HR10-3342	4	3	2		4	8
HR10-3487	-3	0	-4		-5	-2
LG13-1006	1	3	-2		1	5
LG13-1107	-2	1	-1		2	8
LG13-2240	2	3	0		-4	6
LG13-3844	2	5	-2		3	6
LG13-3861	7	6	2		5	7
LG13-4001	9	6	5		4	9
LG13-4038	9	4	5		6	10
U12-209068	4	3	3		2	9
U12-330200	4	6	3		6	11
U12-415209	4	7	4		5	6
U12-416214	2	4	3		3	6
U12-428210	5	7	4		7	10
U12-428214	9	8	7		8	11
U13-602187	1	1	-2		2	4
U13-602194	3	-2	-1		2	5
U13-605123	-1	2	-1		3	4
U13-614037	0	4	-1		1	1
U13-614123	1	2	3		5	5
U13-615123	1	3	3		3	7
U13-617037	-3	3	-1		1	3
U13-618135	3	2	-1		5	8
U13-931068	3	3	2		2	5
Date Planted	6/18	6/9	6/2		5/22	5/8
Days to Mature	105	107	122		128	127

PRELIMINARY TEST IIIB, 2015

LODGING (score)

Strain	Mean 9 Tests	Boone County IA	Crawfords-ville IA	Urbana IL	West Lafayette IN	Man-hattan KS
IA3023 (III)	1.5	1.5	2.3	1.0	1.0	1.0
IA3024	1.7	1.0	2.3	1.0	1.0	3.0
IA3048 (SCN)	2.2	3.0	2.8	1.0	1.0	4.5
LD07-3395bf (SCN)	1.6	2.0	2.0	1.0	1.0	2.0
HR10-3342	2.1	2.5	3.3	1.0	1.0	3.5
HR10-3487	1.8	2.5	2.3	1.0	1.0	3.0
LG13-1006	1.9	2.5	2.5	1.0	1.0	2.5
LG13-1107	2.2	3.0	2.3	1.0	1.0	3.0
LG13-2240	2.2	3.0	2.5	1.0	1.0	3.5
LG13-3844	2.1	3.5	3.0	1.0	1.0	3.5
LG13-3861	2.0	3.0	2.8	1.0	1.0	2.0
LG13-4001	2.0	3.0	2.8	1.0	1.0	2.0
LG13-4038	1.9	2.5	2.5	1.0	1.0	2.0
U12-209068	1.9	3.0	2.8	1.0	1.0	2.5
U12-330200	1.3	1.0	2.0	1.0	1.0	1.0
U12-415209	1.7	1.5	2.5	1.0	1.0	2.5
U12-416214	1.2	1.0	1.8	1.0	1.0	1.0
U12-428210	1.5	1.5	2.5	1.0	1.0	1.5
U12-428214	2.1	3.0	2.8	1.0	1.0	2.5
U13-602187	1.3	1.5	2.0	1.0	1.0	1.0
U13-602194	1.2	1.0	1.8	1.0	1.0	1.0
U13-605123	1.3	1.0	2.0	1.0	1.0	1.5
U13-614037	1.2	1.0	2.0	1.0	1.0	1.0
U13-614123	1.6	1.5	2.0	1.0	1.0	3.0
U13-615123	1.8	1.5	3.0	1.0	1.0	3.0
U13-617037	1.8	3.0	2.5	1.0	1.0	2.0
U13-618135	1.2	1.0	1.8	1.0	1.0	1.0
U13-931068	1.4	1.0	2.5	1.0	1.0	1.5

PRELIMINARY TEST IIIB, 2015

LODGING (score)

Strain	Ottawa KS	Clay Center NE	Stevens Creek NE	Wymore NE	Hoyt-ville OH	So Charles-ton OH
IA3023 (III)	1.0		2.0		1.0	2.9
IA3024	1.0		2.0		1.0	3.0
IA3048 (SCN)	1.0		2.0		1.0	3.1
LD07-3395bf (SCN)	1.0		3.0		1.0	1.1
HR10-3342	1.0		3.0		1.0	2.3
HR10-3487	1.0		2.0		1.0	2.5
LG13-1006	1.0		3.0		1.0	2.8
LG13-1107	1.0		3.5		1.0	3.8
LG13-2240	1.0		3.0		1.0	3.5
LG13-3844	1.0		2.5		1.0	2.4
LG13-3861	1.0		2.0		1.5	3.7
LG13-4001	1.0		2.0		1.0	4.2
LG13-4038	1.0		3.0		1.0	2.9
U12-209068	1.1		1.5		1.0	2.9
U12-330200	1.0		2.0		1.0	1.7
U12-415209	1.0		2.5		1.0	1.9
U12-416214	1.0		2.5		1.0	0.7
U12-428210	1.0		2.5		1.0	1.8
U12-428214	1.0		3.0		1.0	3.4
U13-602187	1.0		2.0		1.0	1.6
U13-602194	1.0		1.5		1.0	1.3
U13-605123	1.0		1.5		1.0	1.9
U13-614037	1.0		1.5		1.0	1.7
U13-614123	1.0		2.5		1.0	1.3
U13-615123	1.0		2.0		1.0	3.1
U13-617037	1.0		2.5		1.0	2.2
U13-618135	1.0		1.5		1.0	1.2
U13-931068	1.0		2.0		1.0	1.8

PRELIMINARY TEST IIIB, 2015

PLANT HEIGHT (inches)

Strain	Mean 9 Tests	Boone County IA	Crawfords-ville IA	Urbana IL	West Lafayette IN	Man-hattan KS
IA3023 (III)	32	39	39	29	18	38
IA3024	33	39	35	31	20	40
IA3048 (SCN)	34	44	40	28	22	41
LD07-3395bf (SCN)	32	39	38	29	19	38
HR10-3342	34	40	37	31	24	40
HR10-3487	33	41	36	30	21	39
LG13-1006	36	44	42	35	21	41
LG13-1107	36	43	38	33	29	43
LG13-2240	40	45	44	40	29	47
LG13-3844	38	46	40	36	25	43
LG13-3861	40	49	43	41	27	44
LG13-4001	37	46	42	36	26	42
LG13-4038	38	44	45	37	27	42
U12-209068	34	38	42	30	21	37
U12-330200	33	40	38	31	17	40
U12-415209	35	40	37	31	23	39
U12-416214	34	40	37	30	21	39
U12-428210	36	42	41	35	24	42
U12-428214	37	43	41	34	27	43
U13-602187	34	39	36	33	24	39
U13-602194	37	41	41	36	26	43
U13-605123	36	42	41	34	25	41
U13-614037	36	40	41	34	27	43
U13-614123	37	44	39	33	23	45
U13-615123	40	45	42	40	30	45
U13-617037	42	49	48	36	29	47
U13-618135	35	41	38	32	26	41
U13-931068	35	41	38	33	23	41

PRELIMINARY TEST IIIB, 2015

PLANT HEIGHT (inches)

Strain	Ottawa KS	Clay Center NE	Stevens Creek NE	Wymore NE	Hoyt-ville OH	So Charles-ton OH
IA3023 (III)	29		38		25	34
IA3024	31		43		30	33
IA3048 (SCN)	30		40		29	33
LD07-3395bf (SCN)	27		38		30	31
HR10-3342	29		40		30	33
HR10-3487	27		39		27	37
LG13-1006	30		40		32	36
LG13-1107	34		40		32	33
LG13-2240	33		43		37	40
LG13-3844	34		44		34	40
LG13-3861	33		45		40	41
LG13-4001	30		42		35	39
LG13-4038	31		46		33	38
U12-209068	28		40		33	36
U12-330200	27		41		29	33
U12-415209	30		47		35	34
U12-416214	28		43		31	34
U12-428210	32		42		35	34
U12-428214	29		44		35	36
U13-602187	29		42		34	31
U13-602194	32		45		36	32
U13-605123	29		42		34	37
U13-614037	30		44		33	34
U13-614123	32		46		34	36
U13-615123	33		46		37	41
U13-617037	34		48		40	44
U13-618135	29		42		30	36
U13-931068	31		40		32	34

PRELIMINARY TEST IIIB, 2015

SEED SIZE (g/100)

Strain	Mean 9 Tests	Boone County IA	Crawfords-ville IA	Urbana IL	West Lafayette IN	Man-hattan KS
IA3023 (III)	15.8		13.6	16.9	15.1	13.0
IA3024	15.8		12.0	16.0	15.3	13.9
IA3048 (SCN)	14.7		11.4	14.2	13.6	12.1
LD07-3395bf (SCN)	16.3		14.3	15.7	15.3	14.3
HR10-3342	16.1		13.2	16.4	15.2	12.3
HR10-3487	15.8		13.8	16.5	14.1	12.0
LG13-1006	17.6		16.1	17.7	16.0	14.6
LG13-1107	15.9		12.7	15.0	14.6	14.2
LG13-2240	16.1		13.9	15.5	15.9	13.5
LG13-3844	14.9		12.7	14.2	13.9	12.1
LG13-3861	14.9		12.7	15.6	14.0	11.2
LG13-4001	16.0		13.4	16.2	14.2	12.7
LG13-4038	15.7		13.6	15.5	14.4	14.1
U12-209068	17.2		15.4	17.4	16.4	15.1
U12-330200	15.8		14.5	16.2	15.5	13.0
U12-415209	14.9		13.1	13.5	13.3	13.2
U12-416214	16.4		14.1	16.5	14.9	12.6
U12-428210	15.1		13.2	14.6	13.8	10.8
U12-428214	16.2		14.1	16.3	14.7	14.1
U13-602187	13.9		11.7	13.9	12.9	11.2
U13-602194	14.2		12.8	14.6	13.1	11.0
U13-605123	13.5		11.6	13.1	12.8	10.6
U13-614037	13.5		11.1	12.6	11.9	11.2
U13-614123	13.7		12.2	13.0	12.8	10.4
U13-615123	15.0		13.0	13.9	13.9	13.4
U13-617037	14.2		12.4	13.5	13.6	11.5
U13-618135	13.9		12.4	13.9	12.4	10.6
U13-931068	15.7		13.6	15.5	15.1	12.9

PRELIMINARY TEST IIIB, 2015

SEED SIZE (g/100)

Strain	Ottawa KS	Clay Center NE	Stevens Creek NE	Wymore NE	Hoyt-ville OH	So Charles-ton OH
IA3023 (III)	18.9	15.0	17.0		17.2	15.8
IA3024	17.0	17.0	18.0		17.1	15.7
IA3048 (SCN)	17.9	15.0	18.0		15.3	14.7
LD07-3395bf (SCN)	18.1	18.0	18.0		16.7	16.4
HR10-3342	17.9	17.0	19.0		17.3	16.8
HR10-3487	17.6	17.0	17.0		18.2	16.0
LG13-1006	19.5	19.0	19.0		19.1	17.6
LG13-1107	18.2	16.0	19.0		16.3	16.9
LG13-2240	18.2	17.0	18.0		16.4	16.6
LG13-3844	16.7	17.0	17.0		16.0	14.8
LG13-3861	16.9	16.0	16.0		17.2	14.9
LG13-4001	18.3	18.0	18.0		16.6	16.9
LG13-4038	17.9	16.0	18.0		15.9	16.2
U12-209068	19.1	19.0	16.0		17.4	18.8
U12-330200	17.1	16.0	16.0		17.4	16.8
U12-415209	16.2	17.0	18.0		15.5	14.6
U12-416214	18.4	18.0	18.0		17.5	17.2
U12-428210	17.0	17.0	18.0		16.1	15.8
U12-428214	18.2	18.0	17.0		16.7	17.1
U13-602187	15.0	16.0	16.0		14.7	14.0
U13-602194	14.8	16.0	16.0		15.1	14.5
U13-605123	15.5	16.0	15.0		13.4	13.4
U13-614037	15.4	16.0	16.0		13.8	13.5
U13-614123	16.0	15.0	16.0		15.0	13.2
U13-615123	15.6	16.0	18.0		15.8	15.4
U13-617037	14.8	16.0	17.0		14.7	14.0
U13-618135	15.6	16.0	16.0		13.7	14.5
U13-931068	17.8	16.0	18.0		16.3	16.4

PRELIMINARY TEST IIIB, 2015

SEED QUALITY (score)

Strain	Mean 9 Tests	Boone County IA	Crawfords-ville IA	Urbana IL	West Lafayette IN	Man-hattan KS
IA3023 (III)	1.7		1.0	2.0	1.0	3.0
IA3024	1.9		2.0	2.0	1.0	3.0
IA3048 (SCN)	1.7		2.0	2.0	1.0	2.0
LD07-3395bf (SCN)	1.7		2.0	2.0	1.5	3.0
HR10-3342	1.8		2.0	1.0	1.0	3.0
HR10-3487	1.7		2.0	2.0	1.5	3.0
LG13-1006	1.8		2.0	2.0	1.0	2.0
LG13-1107	1.7		2.0	1.0	1.5	3.0
LG13-2240	1.6		1.0	1.0	1.5	3.0
LG13-3844	1.6		2.0	2.0	1.5	2.0
LG13-3861	1.7		1.0	1.0	1.0	3.0
LG13-4001	1.6		1.0	1.0	1.5	3.0
LG13-4038	1.4		1.0	1.0	1.5	3.0
U12-209068	1.6		1.0	2.0	1.0	3.0
U12-330200	1.8		1.0	2.0	1.0	3.0
U12-415209	1.3		1.0	1.0	1.0	3.0
U12-416214	1.8		2.0	1.0	1.0	3.0
U12-428210	1.6		1.0	2.0	1.0	3.0
U12-428214	1.7		1.0	2.0	1.5	3.0
U13-602187	1.9		2.0	1.0	1.5	3.0
U13-602194	1.7		1.0	1.0	1.0	3.0
U13-605123	1.4		1.0	1.0	1.0	2.0
U13-614037	1.6		1.0	1.0	1.0	3.0
U13-614123	1.9		2.0	2.0	1.5	3.0
U13-615123	1.9		2.0	1.0	1.5	3.0
U13-617037	2.0		2.0	2.0	1.0	3.0
U13-618135	1.6		1.0	1.0	1.0	3.0
U13-931068	1.7		1.0	2.0	1.0	3.0

PRELIMINARY TEST IIIB, 2015

SEED QUALITY (score)

Strain	Ottawa KS	Clay Center NE	Stevens Creek NE	Wymore NE	Hoyt-ville OH	So Charles-ton OH
IA3023 (III)	2.0	2.0	2.0		1.0	1.0
IA3024	3.0	2.0	2.0		1.0	1.5
IA3048 (SCN)	2.0	2.0	2.0		1.0	1.0
LD07-3395bf (SCN)	2.0	1.0	2.0		1.0	1.0
HR10-3342	2.0	2.0	2.0		1.0	2.0
HR10-3487	2.0	2.0	1.0		1.0	1.0
LG13-1006	2.0	2.0	2.0		1.0	2.0
LG13-1107	2.0	2.0	2.0		1.0	1.0
LG13-2240	1.0	2.0	2.0		1.0	1.5
LG13-3844	1.0	2.0	2.0		1.0	1.0
LG13-3861	2.0	2.0	3.0		1.0	1.0
LG13-4001	2.0	2.0	2.0		1.0	1.0
LG13-4038	1.0	1.0	2.0		1.0	1.0
U12-209068	2.0	1.0	2.0		1.0	1.0
U12-330200	3.0	2.0	2.0		1.0	1.0
U12-415209	1.0	1.0	2.0		1.0	1.0
U12-416214	2.0	2.0	2.0		1.0	2.0
U12-428210	1.0	2.0	2.0		1.0	1.0
U12-428214	2.0	2.0	2.0		1.0	1.0
U13-602187	3.0	2.0	2.0		1.0	1.5
U13-602194	3.0	2.0	2.0		1.0	1.0
U13-605123	2.0	2.0	2.0		1.0	1.0
U13-614037	2.0	2.0	2.0		1.0	1.0
U13-614123	2.0	2.0	2.0		1.0	1.5
U13-615123	3.0	2.0	2.0		1.0	1.5
U13-617037	3.0	2.0	2.0		1.0	2.0
U13-618135	2.0	2.0	2.0		1.0	1.0
U13-931068	3.0	1.0	2.0		1.0	1.0

PRELIMINARY TEST IIIB, 2015

PROTEIN (%)

Strain	Mean 5 Tests	Urbana IL	West Lafayette IN	Man-hattan KS	Clay Center NE	Hoytville OH
IA3023 (III)	33.7	33.1	32.6	34.1	34.3	34.4
IA3024	33.9	31.3	33.5	35.0	35.3	34.3
IA3048 (SCN)	34.4	33.1	33.6	36.3	34.7	34.5
LD07-3395bf (SCN)	32.6	31.6	32.9	33.7	33.3	31.6
HR10-3342	34.4	32.4	33.6	35.5	35.5	34.7
HR10-3487	34.9	33.6	33.8	36.2	35.3	35.7
LG13-1006	35.0	33.6	34.3	35.8	35.4	36.0
LG13-1107	34.9	33.5	34.5	36.4	35.0	34.9
LG13-2240	34.6	33.6	34.6	36.9	35.4	32.7
LG13-3844	35.1	34.1	34.3	36.9	35.4	34.7
LG13-3861	35.6	34.8	34.4	37.0	36.3	35.4
LG13-4001	36.4	35.5	35.3	38.5	37.5	35.2
LG13-4038	35.2	33.8	35.0	36.9	36.1	34.0
U12-209068	34.7	33.6	34.2	35.2	35.2	35.3
U12-330200	35.0	34.6	34.2	35.7	35.1	35.3
U12-415209	33.9	31.5	33.4	35.8	35.2	33.7
U12-416214	34.9	33.2	34.2	36.7	35.6	35.0
U12-428210	34.5	32.9	34.0	36.2	34.8	34.6
U12-428214	33.9	32.3	33.8	34.3	34.9	34.1
U13-602187	34.8	33.4	34.2	36.5	35.0	35.2
U13-602194	36.0	35.5	34.9	37.7	36.0	36.1
U13-605123	33.6	32.2	33.2	35.9	34.9	31.9
U13-614037	32.9	31.2	32.1	34.0	33.9	33.2
U13-614123	33.9	31.7	32.2	36.0	35.3	34.0
U13-615123	34.3	33.2	33.8	35.3	34.8	34.6
U13-617037	34.4	32.6	33.6	36.6	34.6	34.3
U13-618135	35.0	33.4	34.2	36.9	35.6	35.1
U13-931068	34.3	32.5	34.0	35.9	34.6	34.5

PRELIMINARY TEST IIIB, 2015

OIL (%)

Strain	Mean 5 Tests	Urbana IL	West Lafayette IN	Man-hattan KS	Clay Center NE	Hoytville OH
IA3023 (III)	19.9	20.1	20.6	19.6	19.4	19.7
IA3024	20.0	21.5	20.2	19.5	18.9	19.9
IA3048 (SCN)	19.2	20.1	19.7	18.3	18.8	19.2
LD07-3395bf (SCN)	20.5	20.9	20.5	20.1	20.2	21.0
HR10-3342	18.4	19.4	18.8	17.4	18.3	18.3
HR10-3487	18.8	19.6	19.2	17.7	18.8	18.9
LG13-1006	20.0	20.9	20.5	19.5	19.5	19.5
LG13-1107	19.7	20.5	20.0	19.4	19.3	19.5
LG13-2240	19.1	19.6	19.2	18.4	18.5	19.8
LG13-3844	18.4	19.0	18.5	17.7	18.4	18.5
LG13-3861	18.0	18.8	18.6	17.0	17.5	18.2
LG13-4001	19.3	20.0	20.0	18.4	18.6	19.5
LG13-4038	19.9	20.6	20.0	19.1	19.5	20.3
U12-209068	19.6	19.9	19.7	19.5	19.2	19.4
U12-330200	19.1	19.5	19.6	18.3	18.8	19.2
U12-415209	19.5	20.5	19.6	18.9	18.9	19.5
U12-416214	19.2	20.1	19.7	17.8	19.4	19.2
U12-428210	19.5	20.6	19.8	17.9	19.6	19.6
U12-428214	19.9	20.5	20.2	19.8	19.4	19.6
U13-602187	19.4	20.0	19.8	18.6	19.2	19.2
U13-602194	19.1	19.5	19.7	17.8	19.4	19.0
U13-605123	20.2	20.8	20.6	19.3	19.6	20.6
U13-614037	20.2	21.1	20.7	19.7	19.6	19.9
U13-614123	19.5	20.7	20.3	18.3	18.8	19.5
U13-615123	19.7	19.9	19.8	19.5	19.5	19.5
U13-617037	19.8	20.5	20.0	18.9	19.8	19.8
U13-618135	19.4	20.2	19.7	18.8	19.1	19.3
U13-931068	19.1	19.8	19.3	18.4	18.9	19.0

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UNIFORM TEST IV, 2015

Ent.	Strain	Parentage	Seed Source	Previous Testing	Gen. Comp.	Unique Traits
1	LD06-7620 (IV)	IA3023 x LD00- 3309	Diers	4	F5	SCN
2.	LD00-2817P (L)	Ina x Dwight	Diers	6	F5	SCN
3.	LD07-3395bf (SCN)	LD07-3395 Reselection	Diers	SCNUTIV	F5	SCN
4.	K12-1575	Reselection of LG09-5256	Schapaugh	PTIV	F6	
5.	K12-2333	LG04-5993 x LG04-5187	Schapaugh	PTIV	F6	
6.	LD11-11299	LG04-6000 x Syngenta 03RM893031	Diers	PTIV	F4	
7.	LG10-3278	LG03-2087 x LG03-6296	Nelson	PTIV	F6	Diversity
8.	LG11-6759	LG00-3372 x LD00-3309	Nelson	PTIV	F8	Diversity
9.	LG11-6760	LG00-3372 x LD00-3309	Nelson	PTIV	F8	Diversity
10.	LG12-3475	LG03-1686 x LG04-5993	Nelson	PTIV	F6	Diversity
11.	LG12-3478	LG03-1686 x LG04-5993	Nelson	PTIV	F6	Diversity
12.	LG12-4068	LG04-5993 x LG04-5187	Nelson	PTIV	F6	Diversity
13.	LG12-4072	LG04-5993 x LG04-5187	Nelson	PTIV	F6	Diversity
14.	SA10-8471	LG04-6000 x LD04-5907	Scaboo	1	F5	

UNIFORM TEST IV, 2015

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	Shattering Score Manhattan	Green Stem Score Columbia	Green Stem Score So Charleston	Green Stem Score Jackson	SDS Data Valmeyer, IL DX Rank
LD06-7620 (IV)	PTTSYBI	1.0	1.7	3.3	2.0	11.7
LD00-2817P (L)	PGTIYDibI	1.0	1.3	4.0	1.3	3.3
LD07-3395bf (SCN)	WGTSYBfI	1.0	2.3	3.0	1.7	5.6
K12-1575	PTBIYBI	1.0	1.0	1.7	1.0	6.7
K12-2333	WTBSYBI	1.0	1.3	2.0	1.0	13.9
LD11-11299	P+WTBILgBI	1.0	1.0	4.3	1.0	8.6
LG10-3278	PTBSYBI	1.0	1.7	5.0	1.3	27.8
LG11-6759	PTBSYBI	2.0	1.3	2.3	1.0	16.7
LG11-6760	PTTSYBI	1.0	1.0	3.0	1.0	36.1
LG12-3475	WTBSYBI	1.0	1.7	2.3	1.0	13.9
LG12-3478	WTBSYBI	1.0	1.7	2.7	1.0	10.6
LG12-4068	WTBSYBI	1.0	1.0	2.3	1.3	19.4
LG12-4072	PTBSYDibI	1.0	1.0	1.7	1.3	25.0
SA10-8471	WGTDYLbfI	1.0	1.7	3.7	1.0	16.7

LSD: 16.0

UNIFORM TEST IV, 2015

REGIONAL SUMMARY

Strain	Yield 12 bu/a	Rank 12 No.	Maturity 13 Date	Lodging 14 Score	Plant Height 14 In.	Seed Size 13 g/100	Seed Quality 13 Score	Composition Protein 8 %	Composition Oil 8 %
LD06-7620 (IV)	58.6	4	9/24	1.8	30	14.2	2.2	34.8	19.2
LD00-2817P (L)	54.4	14	3.1	2.1	34	13.0	2.2	33.6	20.0
LD07-3395bf (SCN)	58.4	5	-1.0	1.6	29	15.3	2.1	33.2	20.4
K12-1575	54.8	12	1.2	1.9	32	13.0	2.1	33.3	19.8
K12-2333	56.7	11	3.8	1.7	33	16.0	1.9	34.1	19.5
LD11-11299	59.2	3	1.5	1.6	34	14.5	1.9	35.0	19.6
LG10-3278	57.2	7	2.7	2.1	36	14.0	2.3	35.4	19.6
LG11-6759	60.3	2	1.4	2.3	36	14.9	2.3	35.2	19.2
LG11-6760	63.9	1	4.1	2.0	35	14.5	2.2	34.4	19.4
LG12-3475	57.1	9	3.9	2.1	34	13.7	2.0	35.1	19.0
LG12-3478	54.6	13	3.4	2.2	34	14.5	2.1	35.4	19.0
LG12-4068	57.2	7	2.1	1.8	35	17.0	2.2	35.3	19.2
LG12-4072	57.8	6	1.4	1.7	33	16.3	2.1	34.5	19.2
SA10-8471	56.8	10	5.2	2.0	34	13.5	2.1	34.0	19.4
Mean	56.1			2.1	34.2	14.7	2.4		
C.V. (%)	29.4			48.9	17.3	15.3	26.7		
L.S.D. (5%)	8.4			0.5	2.9	1.1	0.3		

124.8 Days After Planting

2014-2015 2-YEAR MEAN

Strain	Yield 20 bu/a	Rank 20 No.	Maturity 23 Date	Lodging 24 Score	Plant Height 24 In.	Seed Size 23 g/100	Seed Quality 23 Score	Composition Protein 14 %	Composition Oil 14 %
LD06-7620 (IV)	56.9	1	9/25	1.7	30	14.4	2.4	34.9	19.0
LD00-2817P (L)	53.6	3	3.2	2.0	34	13.5	2.5	33.5	19.9
SA10-8471	56.6	2	3.7	1.9	35	13.5	2.1	33.9	19.2

128.1 Days After Planting

UNIFORM TEST IV, 2015

YIELD (bu/a)

Strain	Mean 12 Tests	Browns-town IL	Carbon-dale IL*	Ivesdale IL	Urbana IL	Butler-ville IN*	West Lafayette IN	Man hattan KS
LD06-7620 (IV)	58.6	59.0	76.6	81.9	78.7	50.5	60.3	49.8
LD00-2817P (L)	54.4	61.3	74.9	68.5	71.4	56.5	57.0	35.6
LD07-3395bf (SCN)	58.4	63.0	81.7	80.0	77.6	47.8	58.7	47.4
K12-1575	54.8	46.0	80.4	77.7	70.7	49.8	61.5	33.5
K12-2333	56.7	51.6	58.1	77.8	70.8	65.7	65.8	29.7
LD11-11299	59.2	63.8	71.9	74.6	80.3	73.6	67.5	36.6
LG10-3278	57.2	68.6	83.1	69.3	70.8	74.0	60.9	33.9
LG11-6759	60.3	64.2	65.9	83.6	77.7	61.5	58.8	44.2
LG11-6760	63.9	72.8	79.7	81.5	78.0	59.6	63.5	45.7
LG12-3475	57.1	61.2	75.6	73.2	76.4	75.1	55.9	29.1
LG12-3478	54.6	62.2	76.7	71.2	72.5	74.1	58.8	28.4
LG12-4068	57.2	56.0	69.9	76.1	76.7	66.6	64.7	32.9
LG12-4072	57.8	62.1	78.9	76.4	73.9	63.7	54.4	35.5
SA10-8471	56.8	60.7	80.2	66.2	69.1	68.3	59.9	33.0
Location Mean		61.7	76.6	76.3	75.2	64.7	60.1	34.7
C.V. (%)		5.8	16.4	4.5	4.6	15.9	9.3	6.6
L.S.D. (5%)		6.2	21.1	7.4	6.0	8.3	8.4	3.4
Row Sp. (In.)		30	30	30	30	30	30	30
Rows/Plot		4	2	4	4	4	4	4
Reps		2	3	2	2	3	3	3

*Data not included in the mean.

UNIFORM TEST IV, 2015

YIELD (bu/a)

Strain	Onaga KS	Ottawa KS	Columbia MO	Portageville Clay MO	Portageville Loam MO	So Charles-ton OH	Jack-son TN
LD06-7620 (IV)	26.3	47.4	74.4	54.9	67.3	64.1	38.6
LD00-2817P (L)	23.1	49.4	70.0	48.4	65.9	50.4	51.4
LD07-3395bf (SCN)	26.2	48.9	69.7	54.2	57.4	67.3	50.2
K12-1575	26.2	44.8	71.5	57.1	68.2	65.2	35.7
K12-2333	29.5	50.7	69.6	57.3	65.4	69.2	42.6
LD11-11299	25.9	49.8	78.4	59.1	61.4	67.1	46.2
LG10-3278	26.1	47.4	70.4	62.7	68.3	61.7	46.7
LG11-6759	28.3	51.0	72.1	56.8	72.7	69.6	45.3
LG11-6760	29.9	50.3	80.7	65.8	76.7	77.3	44.5
LG12-3475	28.7	51.7	73.9	67.0	70.0	55.9	42.4
LG12-3478	25.5	46.7	69.8	59.0	67.1	57.3	37.3
LG12-4068	30.5	52.0	75.2	61.1	63.7	48.4	49.5
LG12-4072	30.2	54.0	74.5	58.7	66.4	55.3	52.2
SA10-8471	25.8	55.7	73.4	65.1	67.6	55.4	49.5
Location Mean	26.2	50.0	72.8	58.9	67.2	62.9	45.7
C.V. (%)	7.5	3.6	4.7	9.9	4.9	14.3	13.9
L.S.D. (5%)	2.9	2.5	5.8	11.8	6.7	14.6	10.6
Row Sp. (In.)	30	30	30	30	30	15	30
Rows/Plot	4	4	4	4	4	6	4
Reps	3	2	3	3	3	3	3

UNIFORM TEST IV, 2015

YIELD RANK

Strain	Yield Rank	Browns-town IL	Carbon-dale IL	Ivesdale IL	Urbana IL	Butler-ville IN	West Lafayette IN	Man hattan KS
LD06-7620 (IV)	4	11	8	2	2	12	1	1
LD00-2817P (L)	14	8	10	13	10	11	2	6
LD07-3395bf (SCN)	5	5	2	4	5	14	3	2
K12-1575	12	14	3	6	13	13	4	9
K12-2333	11	13	14	5	11	7	5	12
LD11-11299	3	4	11	9	1	4	6	5
LG10-3278	7	2	1	12	11	3	7	8
LG11-6759	2	3	13	1	4	9	8	4
LG11-6760	1	1	5	3	3	10	9	3
LG12-3475	9	9	9	10	7	1	9	13
LG12-3478	13	6	7	11	9	2	11	14
LG12-4068	7	12	12	8	6	6	12	11
LG12-4072	6	7	6	7	8	8	13	7
SA10-8471	10	10	4	14	14	5	14	10

MATURITY (date)

Strain	Mean 13 Tests	Browns-town IL	Carbon-dale IL	Ivesdale IL	Urbana IL	Butler-ville IN	West Lafayette IN	Man hattan KS
LD06-7620 (IV)	9/24	9/17		9/21	9/24	9/15	10/3	9/19
LD00-2817P (L)	3	4		-2	2	7	6	4
LD07-3395bf (SCN)	-1	-1		-6	-4	-1	0	-1
K12-1575	1	2		-5	0	3	-3	7
K12-2333	4	4		-1	2	6	7	9
LD11-11299	2	4		-1	0	4	3	6
LG10-3278	3	4		1	1	9	5	2
LG11-6759	1	4		-1	0	4	4	4
LG11-6760	4	8		2	3	9	5	4
LG12-3475	4	5		1	2	8	5	9
LG12-3478	3	4		2	2	8	5	10
LG12-4068	2	1		-1	1	5	4	12
LG12-4072	1	4		0	1	4	-1	1
SA10-8471	5	8		2	6	10	7	8
Date Planted	5/22	5/6		5/6	5/8	5/7	5/27	6/2
Days to Mature	124.8	134		138	139	131	129	109

UNIFORM TEST IV, 2015

YIELD RANK

Strain	Onaga KS	Ottawa KS	Columbia MO	Portageville Clay MO	Portageville Loam MO	So Charles-ton OH	Jack-son TN
LD06-7620 (IV)	7	11	5	12	7	7	12
LD00-2817P (L)	14	9	11	14	10	13	2
LD07-3395bf (SCN)	8	10	13	13	14	4	3
K12-1575	9	14	9	10	5	6	14
K12-2333	4	6	14	9	11	3	10
LD11-11299	11	8	2	6	13	5	7
LG10-3278	10	12	10	4	4	8	6
LG11-6759	6	5	8	11	2	2	8
LG11-6760	3	7	1	2	1	1	9
LG12-3475	5	4	6	1	3	10	11
LG12-3478	13	13	12	7	8	9	13
LG12-4068	1	3	3	5	12	14	4
LG12-4072	2	2	4	8	9	12	1
SA10-8471	12	1	7	3	6	11	4

MATURITY (date)

Strain	Onaga KS	Ottawa KS	Columbia MO	Portageville Clay MO	Portageville Loam MO	So Charles-ton OH	Jack-son TN
LD06-7620 (IV)	10/7	10/5	9/19	10/5	9/14	9/23	9/23
LD00-2817P (L)	-0	5	2	1	5	4	2
LD07-3395bf (SCN)	1	3	-1	-1	-2	-1	0
K12-1575	-0	4	0	2	5	-1	1
K12-2333	2	8	1	2	4	4	1
LD11-11299	-1	2	1	-1	0	4	-1
LG10-3278	1	2	1	1	1	9	-1
LG11-6759	-0	0	0	-1	3	3	-1
LG11-6760	1	3	3	2	6	7	1
LG12-3475	1	6	2	2	5	4	1
LG12-3478	-0	2	2	0	4	6	0
LG12-4068	2	6	-2	-2	2	-1	1
LG12-4072	0	6	-0	1	3	0	0
SA10-8471	0	6	5	2	4	9	1
Date Planted	6/18	6/18	5/6	6/16	5/4	5/8	6/11
Days to Mature	111	109	136	111	133	138	104

UNIFORM TEST IV, 2015

LODGING (score)

Strain	Mean 14 Tests	Browns-town IL	Carbon-dale IL	Ivesdale IL	Urbana IL	Butler-ville IN	West Lafayette IN	Man hattan KS
LD06-7620 (IV)	1.8	1.0	2.0	2.8	1.8	1.0	1.0	1.7
LD00-2817P (L)	2.1	1.5	2.0	3.0	1.3	1.0	1.0	3.0
LD07-3395bf (SCN)	1.6	1.3	3.0	1.5	1.0	1.0	1.0	1.0
K12-1575	1.9	1.5	2.0	2.5	1.5	1.0	1.0	2.0
K12-2333	1.7	1.0	2.0	1.8	1.5	1.2	1.0	1.0
LD11-11299	1.6	1.0	1.0	2.0	2.0	1.2	1.0	1.0
LG10-3278	2.1	1.3	1.0	3.0	3.3	1.2	1.2	1.7
LG11-6759	2.3	1.5	2.0	3.3	2.8	1.0	1.0	3.0
LG11-6760	2.0	2.0	1.0	3.0	2.5	1.0	1.0	2.0
LG12-3475	2.1	2.0	3.0	2.8	2.3	1.2	1.2	1.3
LG12-3478	2.2	2.0	1.0	3.3	2.8	1.5	1.0	1.7
LG12-4068	1.8	1.0	2.0	2.8	1.0	1.2	1.0	2.0
LG12-4072	1.7	1.0	1.0	2.8	1.0	1.0	1.0	1.3
SA10-8471	2.0	1.5	3.0	3.3	1.8	1.5	1.0	1.7

PLANT HEIGHT (inches)

Strain	Mean 14 Tests	Browns-town IL	Carbon-dale IL	Ivesdale IL	Urbana IL	Butler-ville IN	West Lafayette IN	Man hattan KS
LD06-7620 (IV)	30	24	34	41	33	23	23	40
LD00-2817P (L)	34	30	32	44	39	26	26	45
LD07-3395bf (SCN)	29	24	33	37	33	20	22	36
K12-1575	32	24	35	42	37	27	25	41
K12-2333	33	27	36	43	39	28	28	42
LD11-11299	34	26	34	44	42	29	30	42
LG10-3278	36	33	34	47	45	32	32	43
LG11-6759	36	30	36	46	42	30	28	45
LG11-6760	35	34	38	45	44	26	26	46
LG12-3475	34	30	39	44	40	28	27	42
LG12-3478	34	31	41	45	42	28	29	39
LG12-4068	35	31	42	47	38	30	25	42
LG12-4072	33	29	39	43	36	27	23	40
SA10-8471	34	29	38	41	41	30	29	42

UNIFORM TEST IV, 2015

LODGING (score)

Strain	Onaga KS	Ottawa KS	Columbia MO	Portageville Clay MO	Portageville Loam MO	So Charles-ton OH	Jack-son TN
LD06-7620 (IV)	1.0	1.0	2.3	2.7	2.0	3.1	1.7
LD00-2817P (L)	1.0	1.0	3.0	3.0	2.0	4.1	2.0
LD07-3395bf (SCN)	1.0	1.0	2.0	2.7	2.0	1.2	2.7
K12-1575	1.0	1.0	2.0	3.0	2.3	3.8	2.0
K12-2333	1.0	1.0	1.7	3.0	2.0	3.1	2.0
LD11-11299	1.0	1.0	1.8	3.0	2.0	2.8	1.3
LG10-3278	1.0	1.0	2.8	3.0	2.0	4.4	2.3
LG11-6759	1.0	1.0	3.0	3.0	3.0	4.2	2.3
LG11-6760	1.0	1.0	2.8	3.0	2.7	3.7	1.0
LG12-3475	1.0	1.0	2.5	3.0	2.3	3.5	2.3
LG12-3478	1.0	1.0	3.2	3.0	2.7	4.6	2.0
LG12-4068	1.0	1.0	1.8	3.0	2.0	3.1	2.0
LG12-4072	1.0	1.0	2.0	3.0	2.0	4.2	1.3
SA10-8471	1.0	1.0	2.5	2.3	2.0	3.3	1.7

PLANT HEIGHT (inches)

Strain	Onaga KS	Ottawa KS	Columbia MO	Portageville Clay MO	Portageville Loam MO	So Charles-ton OH	Jack-son TN
LD06-7620 (IV)	24	27	29	27	32	35	28
LD00-2817P (L)	27	31	34	35	39	39	36
LD07-3395bf (SCN)	25	28	26	28	30	33	27
K12-1575	24	29	28	27	34	38	30
K12-2333	27	33	31	30	34	40	31
LD11-11299	28	32	33	33	33	40	31
LG10-3278	27	30	34	35	37	41	36
LG11-6759	30	33	34	35	37	42	35
LG11-6760	27	32	34	33	36	41	32
LG12-3475	27	32	33	32	36	37	31
LG12-3478	28	31	31	30	36	38	32
LG12-4068	28	31	32	32	33	40	36
LG12-4072	27	30	30	32	33	38	33
SA10-8471	26	32	30	34	38	40	33

UNIFORM TEST IV, 2015

SEED SIZE (g/100)

Strain	Mean 13 Tests	Browns-town IL	Carbon-dale IL	Ivesdale IL	Urbana IL	Butler-ville IN	West Lafayette IN	Man hattan KS
LD06-7620 (IV)	14.2	12.3		15.1	15.3	14.3	13.2	10.8
LD00-2817P (L)	13.0	12.1		13.4	14.3	12.3	12.1	10.5
LD07-3395bf (SCN)	15.3	14.8		15.5	16.6	14.7	14.9	11.8
K12-1575	13.0	11.1		13.7	13.6	12.0	12.5	10.7
K12-2333	16.0	14.9		17.5	18.5	14.8	15.7	11.8
LD11-11299	14.5	12.9		15.0	16.0	13.8	14.4	10.4
LG10-3278	14.0	13.1		15.5	15.2	13.3	12.6	10.1
LG11-6759	14.9	13.0		16.2	16.2	13.0	13.7	12.6
LG11-6760	14.5	13.6		15.8	15.4	12.6	14.1	11.2
LG12-3475	13.7	11.9		14.6	14.8	13.7	12.7	10.4
LG12-3478	14.5	12.7		15.7	15.7	14.6	14.0	11.5
LG12-4068	17.0	16.1		17.3	19.5	16.7	16.2	12.2
LG12-4072	16.3	15.0		17.9	19.0	15.2	16.2	13.0
SA10-8471	13.5	12.2		13.3	14.5	12.7	12.9	11.1

SEED QUALITY (score)

Strain	Mean 13 Tests	Browns-town IL	Carbon-dale IL	Ivesdale IL	Urbana IL	Butler-ville IN	West Lafayette IN	Man hattan KS
LD06-7620 (IV)	2.2	1.0		2.0	2.0	1.0	1.0	3.0
LD00-2817P (L)	2.2	2.0		2.0	1.0	1.0	1.5	3.0
LD07-3395bf (SCN)	2.1	1.0		2.0	1.0	1.0	1.0	3.0
K12-1575	2.1	1.0		2.0	1.0	1.0	1.5	3.0
K12-2333	1.9	1.0		2.0	1.0	1.0	1.0	3.0
LD11-11299	1.9	1.0		2.0	2.0	1.0	1.0	3.0
LG10-3278	2.3	2.0		2.0	2.0	1.5	1.0	3.0
LG11-6759	2.3	2.0		2.0	2.0	1.0	1.0	3.0
LG11-6760	2.2	1.0		2.0	2.0	1.0	1.0	3.0
LG12-3475	2.0	1.0		2.0	1.0	1.0	1.0	3.0
LG12-3478	2.1	1.0		2.0	1.0	1.0	1.5	3.0
LG12-4068	2.2	1.0		2.0	2.0	1.5	1.0	3.0
LG12-4072	2.1	1.0		2.0	2.0	1.0	1.0	2.0
SA10-8471	2.1	1.0		2.0	2.0	1.0	1.0	3.0

UNIFORM TEST IV, 2015

SEED SIZE (g/100)

Strain	Onaga KS	Ottawa KS	Columbia MO	Portageville Clay MO	Portageville Loam MO	So Charles-ton OH	Jack-son TN
LD06-7620 (IV)	12.2	18.1	15.1	14.8	13.4	15.8	13.9
LD00-2817P (L)	12.1	14.8	12.8	14.2	11.4	15.1	13.4
LD07-3395bf (SCN)	12.7	19.2	16.1	16.9	13.2	17.3	15.1
K12-1575	12.0	15.8	12.8	14.1	13.2	14.4	12.7
K12-2333	15.9	18.8	14.9	17.4	15.3	17.5	15.4
LD11-11299	13.6	18.3	14.3	16.6	13.0	16.8	13.5
LG10-3278	12.4	16.2	13.9	16.1	13.4	16.8	14.1
LG11-6759	13.6	18.7	13.7	15.7	14.6	17.6	14.7
LG11-6760	13.7	17.0	13.3	15.5	14.1	17.1	14.7
LG12-3475	12.9	17.0	13.7	15.0	13.2	15.3	13.1
LG12-3478	12.2	17.1	15.1	16.5	13.8	16.3	13.3
LG12-4068	15.2	20.3	17.5	18.9	16.2	16.8	17.5
LG12-4072	13.7	20.1	15.8	18.4	15.1	17.3	15.8
SA10-8471	12.7	16.5	13.0	14.7	13.2	14.5	14.0

SEED QUALITY (score)

Strain	Onaga KS	Ottawa KS	Columbia MO	Portageville Clay MO	Portageville Loam MO	So Charles-ton OH	Jack-son TN
LD06-7620 (IV)	3.0	3.0	2.7	3.0	3.0	1.5	2.3
LD00-2817P (L)	3.0	2.0	2.3	3.0	3.7	1.6	2.7
LD07-3395bf (SCN)	3.0	3.0	2.3	3.0	3.0	1.7	2.7
K12-1575	3.0	2.0	2.7	3.0	3.3	1.7	2.0
K12-2333	3.0	2.0	2.0	3.0	2.3	1.5	2.0
LD11-11299	3.0	2.0	2.0	2.7	2.0	1.0	1.7
LG10-3278	3.0	2.0	3.3	3.0	3.0	2.1	2.0
LG11-6759	3.0	3.0	2.7	3.0	3.0	2.1	2.3
LG11-6760	3.0	3.0	2.3	3.3	3.3	2.0	2.0
LG12-3475	3.0	2.0	2.3	3.0	2.7	2.1	2.0
LG12-3478	3.0	2.0	2.0	3.0	3.0	1.9	2.3
LG12-4068	3.0	3.0	2.0	3.0	3.0	1.6	2.0
LG12-4072	3.0	3.0	2.0	3.0	3.0	1.8	2.0
SA10-8471	3.0	2.0	2.3	2.7	2.7	1.9	2.3

UNIFORM TEST IV, 2015

PROTEIN (%)

Strain	Mean 8 Tests	Browns-town IL	Ives-dale IL	Urbana IL	Butler-ville IN	West Lafayette IN	Man-hattan KS	Portageville Clay MO	Jackson TN
LD06-7620 (IV)	34.8	34.1	32.6	35.2	35.9	34.5	35.1	35.0	36.4
LD00-2817P (L)	33.6	33.2	35.0	32.8	32.8	32.2	35.4	33.8	33.6
LD07-3395bf (SCN)	33.2	32.2	33.1	32.6	33.1	32.1	34.5	34.1	33.7
K12-1575	33.3	31.3	33.7	32.0	33.3	32.3	35.4	33.8	34.4
K12-2333	34.1	32.5	32.4	33.9	34.1	33.5	37.0	34.7	34.8
LD11-11299	35.0	32.9	34.6	34.2	35.3	34.8	36.8	36.4	35.5
LG10-3278	35.4	34.5	34.9	34.7	35.6	34.2	37.7	35.9	35.5
LG11-6759	35.2	34.5	34.2	35.3	35.3	34.5	36.6	35.8	35.7
LG11-6760	34.4	33.6	34.0	34.0	34.5	33.5	36.5	34.5	34.9
LG12-3475	35.1	33.2	34.7	34.1	35.2	33.4	38.8	34.9	36.4
LG12-3478	35.4	34.4	34.7	35.1	35.3	33.9	37.9	35.4	36.2
LG12-4068	35.3	32.8	32.7	35.8	36.0	34.2	38.5	36.0	36.5
LG12-4072	34.5	32.1	34.5	34.2	34.3	33.7	37.5	34.1	35.3
SA10-8471	34.0	33.2	32.4	33.6	34.1	32.8	36.6	33.5	35.5

OIL (%)

Strain	Mean 8 Tests	Browns-town IL	Ives-dale IL	Urbana IL	Butler-ville IN	West Lafayette IN	Man-hattan KS	Portageville Clay MO	Jackson TN
LD06-7620 (IV)	19.2	19.1	19.9	18.6	19.0	19.2	18.1	19.2	20.0
LD00-2817P (L)	20.0	20.3	19.3	19.8	20.3	20.5	17.7	20.4	21.2
LD07-3395bf (SCN)	20.4	20.9	19.6	20.4	20.5	20.9	18.9	20.7	21.3
K12-1575	19.8	20.8	19.3	19.9	19.7	20.0	17.9	20.1	20.9
K12-2333	19.5	19.9	20.8	19.4	19.4	19.5	17.2	19.5	20.3
LD11-11299	19.6	20.4	19.9	19.5	19.7	19.6	17.9	19.6	20.4
LG10-3278	19.6	20.0	19.0	19.8	19.7	19.8	17.3	19.9	21.0
LG11-6759	19.2	19.4	19.6	19.0	18.8	19.1	18.2	19.1	20.1
LG11-6760	19.4	19.8	19.7	19.2	19.1	19.5	17.9	19.5	20.7
LG12-3475	19.0	19.6	19.5	19.3	19.1	19.4	16.0	19.5	19.5
LG12-3478	19.0	19.1	20.3	18.9	19.0	19.2	17.0	19.4	19.2
LG12-4068	19.2	20.3	20.1	18.9	19.2	19.5	17.1	19.2	19.7
LG12-4072	19.2	19.8	19.2	19.1	19.3	20.1	16.9	19.5	19.6
SA10-8471	19.4	19.5	20.4	18.9	19.2	19.4	17.8	20.1	20.0

PRELIMINARY TEST IV, 2015

Ent.	Strain	Parentage	Seed Source	Gen. Comp.	Unique Traits
1	LD06-7620 (IV)	IA3023 x LD00- 3309	Diers	F5	SCN
2.	LD00-2817P (L)	Ina x Dwight	Diers	F5	SCN
3.	LD07-3395bf (SCN)	LD07-3395 Reselection	Diers	F5	SCN
4.	K13-1156	LG06-2284 x LD00-3309	Schapaugh	F4	
5.	K13-1231	LG07-2309 x 435.TCS	Schapaugh	F4	
6.	K13-1234	LG07-2309 x 435.TCS	Schapaugh	F4	
7.	K13-1289	LG06-5920 x 435.TCS	Schapaugh	F4	STS
8.	K13-1290	LG06-5920 x 435.TCS	Schapaugh	F4	
9.	K13-1620	LS07-3125 x 435.TCS	Schapaugh	F4	
10.	K13-1627	LS07-3125 x 435.TCS	Schapaugh	F4	STS
11.	LD12-10534	LG04-6000 x (LD00-3309(5) x LD07-5065)	Diers	F5	
12.	LG11-6215	LG03-3020 x LG03-3780	Nelson	F6	Diversity
13.	LG11-6761	LG00-3372 x LD00-3309	Nelson	F9	Diversity
14.	LG12-3935	LG04-5187 x LG05-4557	Nelson	F6	Diversity
15.	LG12-4045	LG04-5988 x LG04-5187	Nelson	F6	Diversity
16.	LG13-3925	LG04-6000 x LG04-5187	Nelson	F6	Diversity
17.	LG13-3981	LG04-5196 x LG06-5920	Nelson	F6	Diversity
18.	LG13-3993	LG04-5196 x LG06-5920	Nelson	F6	Diversity
19.	LG13-4053	LG04-5187 x LG05-4092	Nelson	F6	Diversity
20.	S12-3835	LD06-7596 x S07-5117	Shannon	F5	Conventional, SCN
21.	S13-11061	LD07-3419 x K08-5026	Shannon	F5	Conventional, SCN
22.	SA12-1394	S07-5117 x S08-18569	Scaboo	F5	
23.	SA12-1451	CL06-121119 x S07-5117	Scaboo	F5	
24.	SA12-1471	CL06-121119 x S07-5117	Scaboo	F5	

PRELIMINARY TEST IV, 2015

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	Shattering Score Manhattan	Green Stem Score Jackson
LD06-7620 (IV)	PTTSYBI	1.0	2.0
LD00-2817P (L)	PGTIYDibI	1.0	1.0
LD07-3395bf (SCN)	WGTSYBfI	2.0	2.0
K13-1156	WTBIYBI	1.0	1.0
K13-1231	WTTSYBrI	1.0	1.5
K13-1234	WTTSYBI	1.0	1.0
K13-1289	WGBSYDibI	1.0	2.0
K13-1290	WTBSYBI	2.0	1.5
K13-1620	WTBSYBI	1.0	1.0
K13-1627	WT+GTSYBfI	1.0	1.0
LD12-10534	WTBSYBI	1.0	1.5
LG11-6215	WTBSYBI	2.0	1.0
LG11-6761	WTTSYBI	2.0	1.0
LG12-3935	WTBSYBI	3.0	2.0
LG12-4045	PTBSYBI	1.0	1.5
LG13-3925	P+WTTSYBrI	1.0	2.0
LG13-3981	PTBSYBrI	1.0	1.0
LG13-3993	WTBSYBrI	1.0	1.0
LG13-4053	WTBSYBI	1.0	1.0
S12-3835	WTTDYBI	1.0	1.5
S13-11061	PT+GTSYB+BfI	1.0	1.5
SA12-1394	PTBSYBI	1.0	1.0
SA12-1451	PGBSYDibI	1.0	2.0
SA12-1471	PTBDYBI	3.0	2.0

PRELIMINARY TEST IV, 2015

REGIONAL SUMMARY

No. of Tests Strain	Yield 9 bu/a	Rank 9 No.	Maturity 9 Date	Lodging 10 Score	Plant Height 10 In.	Seed Size 9 g/100	Seed Quality 9 Score	Composition Protein 6 %	 Oil 6 %
LD06-7620 (IV)	56.1	11	9/27	1.6	29	14.1	2.4	35.1	19.0
LD00-2817P (L)	54.9	17	2.2	2.1	35	13.1	2.2	33.2	20.1
LD07-3395bf (SCN)	57.2	7	-2.3	1.7	29	15.0	2.3	33.5	20.2
K13-1156	55.0	16	3.2	1.8	36	14.8	2.2	36.4	18.7
K13-1231	53.0	23	2.6	2.3	34	16.1	2.2	36.2	18.7
K13-1234	56.0	12	4.7	2.2	34	14.3	2.0	35.2	19.0
K13-1289	54.4	20	4.6	2.7	34	14.6	2.1	35.8	18.7
K13-1290	55.4	14	3.9	2.2	36	14.7	2.3	36.0	18.7
K13-1620	56.4	10	2.4	1.5	34	13.6	2.2	35.5	19.0
K13-1627	55.2	15	3.1	1.4	32	13.7	2.2	35.3	19.0
LD12-10534	59.0	4	-0.3	1.4	30	14.1	2.0	34.2	19.3
LG11-6215	56.5	8	-2.2	2.1	33	12.6	2.1	36.0	18.6
LG11-6761	59.4	2	-0.2	2.0	36	14.7	2.2	35.4	19.0
LG12-3935	54.1	21	-0.4	1.8	32	15.0	1.9	34.1	19.5
LG12-4045	54.8	19	-1.0	1.8	34	15.9	2.2	34.8	18.7
LG13-3925	59.5	1	0.7	2.2	37	15.0	2.2	34.8	19.0
LG13-3981	59.1	3	1.8	2.3	33	16.4	2.2	35.1	19.2
LG13-3993	58.0	6	3.2	1.9	33	16.2	2.2	34.1	19.8
LG13-4053	54.9	17	1.7	2.0	36	15.4	2.1	35.9	19.1
S12-3835	54.1	21	3.4	1.8	34	15.9	2.2	35.3	19.0
S13-11061	55.9	13	3.3	2.5	35	15.9	2.2	34.6	19.2
SA12-1394	52.2	24	4.9	1.7	32	15.1	1.9	36.5	18.7
SA12-1451	56.5	8	5.4	1.9	29	12.3	2.3	36.1	18.7
SA12-1471	58.7	5	3.6	1.9	35	15.3	2.0	36.0	18.7
Mean	53.5			2.2	34.3	14.8	2.5		
C.V. (%)	30.1			49.6	16.8	16.0	22.6		
L.S.D. (5%)	12.4			0.8	4.0	1.7	0.4		

121.1 Days After Planting

PRELIMINARY TEST IV, 2015

YIELD (bu/a)

Strain	Mean 9 Tests	Carbondale IL*	Urbana IL	Butlerville IN	West Lafayette IN	Man-hattan KS
LD06-7620 (IV)	56.1	68.5	77.5	68.0	60.3	42.0
LD00-2817P (L)	54.9	87.2	72.0	67.0	59.7	40.4
LD07-3395bf (SCN)	57.2	81.0	76.4	62.0	61.1	45.8
K13-1156	55.0	64.4	70.1	55.1	62.4	39.7
K13-1231	53.0	67.5	69.0	56.5	64.1	33.1
K13-1234	56.0	43.7	66.5	73.0	68.1	32.7
K13-1289	54.4	80.5	69.1	69.0	63.9	38.2
K13-1290	55.4	72.7	70.7	72.9	60.0	37.8
K13-1620	56.4	74.1	70.1	72.3	63.6	37.9
K13-1627	55.2	73.1	69.2	71.6	60.2	37.4
LD12-10534	59.0	82.8	82.1	70.4	60.7	38.0
LG11-6215	56.5	72.7	75.1	72.3	61.3	44.2
LG11-6761	59.4	71.8	76.9	66.9	72.2	39.2
LG12-3935	54.1	76.3	76.1	56.5	58.9	36.0
LG12-4045	54.8	67.6	76.6	67.3	62.8	32.0
LG13-3925	59.5	82.9	81.7	75.7	67.3	34.3
LG13-3981	59.1	91.6	72.7	79.0	69.4	36.1
LG13-3993	58.0	38.8	78.1	59.2	67.1	42.5
LG13-4053	54.9	84.0	74.3	72.4	54.1	26.6
S12-3835	54.1	75.4	74.6	60.6	55.4	40.3
S13-11061	55.9	83.3	66.9	80.5	67.3	28.2
SA12-1394	52.2	97.8	73.0	48.3	49.6	31.1
SA12-1451	56.5	102.8	71.7	65.9	67.0	38.8
SA12-1471	58.7	57.2	84.2	70.0	68.9	37.7
Location Mean		74.8	73.6	68.5	62.6	37.9
C.V. (%)		24.0	4.1	11.3	9.5	6.0
L.S.D. (5%)		24.9	5.2	8.6	11.9	3.9
Row Sp. (In.)		30	30	30	30	30
Rows/Plot		2	4	4	4	4
Reps		2	2	2	2	2

*Data not included in the mean.

PRELIMINARY TEST IV, 2015

YIELD (bu/a)

Strain	Onaga KS	Ottawa KS	Columbia MO	Portageville Clay MO	Jack-son TN
LD06-7620 (IV)	28.5	47.6	74.3	51.6	55.4
LD00-2817P (L)	24.8	48.8	69.3	53.5	58.7
LD07-3395bf (SCN)	30.8	48.9	75.7	54.8	59.1
K13-1156	30.3	50.9	74.9	59.8	52.0
K13-1231	27.3	47.6	68.7	55.4	55.0
K13-1234	27.9	51.3	65.0	63.0	56.3
K13-1289	25.0	46.9	63.6	52.9	61.1
K13-1290	29.4	46.8	65.4	54.1	61.5
K13-1620	32.4	47.0	69.7	59.5	54.9
K13-1627	25.8	49.7	70.4	56.2	55.9
LD12-10534	31.6	47.4	82.6	61.4	56.7
LG11-6215	32.7	49.3	68.0	53.3	52.7
LG11-6761	31.4	52.5	76.6	60.4	58.2
LG12-3935	30.1	47.2	72.5	61.5	48.7
LG12-4045	31.3	45.8	69.0	57.2	51.3
LG13-3925	30.0	48.8	72.0	68.6	56.9
LG13-3981	34.8	48.7	69.3	67.5	54.9
LG13-3993	31.6	51.1	75.7	69.4	47.5
LG13-4053	29.3	46.9	73.1	63.0	54.2
S12-3835	25.5	47.6	70.6	53.8	58.8
S13-11061	25.7	50.1	60.9	63.5	59.7
SA12-1394	28.4	45.9	71.6	62.2	59.4
SA12-1451	26.7	49.6	71.5	57.0	60.4
SA12-1471	26.3	45.9	70.6	67.8	57.0
Location Mean	29.4	48.1	70.6	59.7	56.5
C.V. (%)	7.5	3.9	4.8	7.9	9.6
L.S.D. (5%)	3.7	3.3	7.1	11.7	11.1
Row Sp. (In.)	30	30	30	30	30
Rows/Plot	4	4	4	4	4
Reps	2	2	2	2	2

PRELIMINARY TEST IV, 2015

YIELD RANK

Strain	Yield Rank	Carbondale IL	Urbana IL	Butlerville IN	West Lafayette IN	Man-hattan KS
LD06-7620 (IV)	11	18	5	13	17	4
LD00-2817P (L)	17	4	15	15	20	5
LD07-3395bf (SCN)	7	9	8	18	15	1
K13-1156	16	20	18	23	13	7
K13-1231	23	19	22	21	9	19
K13-1234	12	22	24	4	4	20
K13-1289	20	10	21	12	10	10
K13-1290	14	15	17	5	19	13
K13-1620	10	13	18	7	11	12
K13-1627	15	14	20	9	18	15
LD12-10534	4	8	2	10	16	11
LG11-6215	8	16	10	7	14	2
LG11-6761	2	17	6	16	1	8
LG12-3935	21	11	9	21	21	17
LG12-4045	19	18	7	14	12	21
LG13-3925	1	7	3	3	5	18
LG13-3981	3	3	14	2	2	16
LG13-3993	6	23	4	20	7	3
LG13-4053	17	5	12	6	23	24
S12-3835	21	12	11	19	22	6
S13-11061	13	6	23	1	5	23
SA12-1394	24	2	13	24	24	22
SA12-1451	8	1	16	17	8	9
SA12-1471	5	21	1	11	3	14

PRELIMINARY TEST IV, 2015

YIELD RANK

Strain	Onaga KS	Ottawa KS	Columbia MO	Portageville Clay MO	Jack-son TN
LD06-7620 (IV)	14	15	6	24	15
LD00-2817P (L)	24	10	16	21	8
LD07-3395bf (SCN)	8	9	3	18	6
K13-1156	9	4	5	12	21
K13-1231	17	13	19	17	16
K13-1234	16	2	22	6	13
K13-1289	23	19	23	23	2
K13-1290	12	21	21	19	1
K13-1620	3	18	15	13	17
K13-1627	20	6	14	16	14
LD12-10534	5	16	1	10	12
LG11-6215	2	8	20	22	20
LG11-6761	6	1	2	11	9
LG12-3935	10	17	8	9	23
LG12-4045	7	24	18	14	22
LG13-3925	11	11	9	2	11
LG13-3981	1	12	17	4	17
LG13-3993	4	3	4	1	24
LG13-4053	13	19	7	6	19
S12-3835	22	14	12	20	7
S13-11061	21	5	24	5	4
SA12-1394	15	22	10	8	5
SA12-1451	18	7	11	15	3
SA12-1471	19	23	13	3	10

PRELIMINARY TEST IV, 2015

MATURITY (date)

Strain	Mean 9 Tests	Carbondale IL	Urbana IL	Butlerville IN	West Lafayette IN	Man-hattan KS
LD06-7620 (IV)	9/27		9/25	9/20	10/3	9/19
LD00-2817P (L)	2		1	3	0	8
LD07-3395bf (SCN)	-2		-6	-3	-2	-1
K13-1156	3		5	3	5	9
K13-1231	3		2	6	6	4
K13-1234	5		4	7	5	13
K13-1289	5		6	5	6	15
K13-1290	4		8	4	5	7
K13-1620	2		2	2	6	6
K13-1627	3		6	4	6	4
LD12-10534	-0		2	-4	0	1
LG11-6215	-2		-4	-6	-2	0
LG11-6761	-0		-1	2	4	-1
LG12-3935	-0		-2	-5	-2	7
LG12-4045	-1		-5	-3	-1	2
LG13-3925	1		-1	-1	-1	5
LG13-3981	2		-1	2	1	7
LG13-3993	3		1	0	4	14
LG13-4053	2		1	0	0	10
S12-3835	3		7	4	7	6
S13-11061	3		1	4	5	12
SA12-1394	5		9	6	6	14
SA12-1451	5		11	7	9	9
SA12-1471	4		9	4	6	5
Date Planted	5/29		5/8	5/7	5/27	6/2
Days to Mature	121.1		140	136	129	109

PRELIMINARY TEST IV, 2015

MATURITY (date)

Strain	Onaga KS	Ottawa KS	Columbia MO	Portageville Clay MO	Jack-son TN
LD06-7620 (IV)	10/6	10/12	9/19	10/4	9/23
LD00-2817P (L)	0	2	4	2	0
LD07-3395bf (SCN)	-1	-6	0	-2	0
K13-1156	2	-6	3	3	4
K13-1231	1	-2	4	2	0
K13-1234	2	0	4	4	5
K13-1289	3	-3	2	3	5
K13-1290	5	-2	4	1	4
K13-1620	0	-1	4	3	1
K13-1627	1	2	4	1	1
LD12-10534	0	-3	1	1	-1
LG11-6215	3	-7	1	-1	-4
LG11-6761	0	-5	0	0	-1
LG12-3935	-1	-4	0	2	1
LG12-4045	2	-2	0	0	-1
LG13-3925	1	-4	1	4	3
LG13-3981	2	-2	2	3	3
LG13-3993	4	-2	1	5	1
LG13-4053	1	-2	2	3	1
S12-3835	1	-3	4	1	4
S13-11061	1	-5	4	3	6
SA12-1394	3	-1	4	2	1
SA12-1451	1	1	4	3	5
SA12-1471	2	-3	4	3	3
Date Planted	6/18	6/18	5/6	6/16	6/11
Days to Mature	110	116	136	110	104

PRELIMINARY TEST IV, 2015

LODGING (score)

Strain	Mean 10 Tests	Carbondale IL	Urbana IL	Butlerville IN	West Lafayette IN	Man-hattan KS
LD06-7620 (IV)	1.6	2.0	1.3	1.0	1.0	2.0
LD00-2817P (L)	2.1	2.0	2.0	1.3	1.0	3.5
LD07-3395bf (SCN)	1.7	3.0	1.0	1.0	1.0	1.0
K13-1156	1.8	1.0	1.8	1.0	1.0	2.5
K13-1231	2.3	2.0	3.8	1.3	1.3	2.5
K13-1234	2.2	1.0	4.0	2.0	1.0	3.0
K13-1289	2.7	3.0	4.0	2.0	1.5	4.5
K13-1290	2.2	1.0	2.8	2.0	1.3	3.5
K13-1620	1.5	1.0	1.5	1.5	1.0	2.0
K13-1627	1.4	2.0	1.3	1.0	1.0	1.0
LD12-10534	1.4	1.0	1.5	1.0	1.0	1.0
LG11-6215	2.1	3.0	2.3	1.5	1.0	3.5
LG11-6761	2.0	1.0	3.0	1.3	1.0	2.5
LG12-3935	1.8	1.0	1.8	1.5	1.0	2.0
LG12-4045	1.8	2.0	2.5	1.3	1.0	1.0
LG13-3925	2.2	1.0	2.5	1.5	1.0	4.0
LG13-3981	2.3	2.0	4.5	1.3	1.0	2.0
LG13-3993	1.9	1.0	2.3	1.0	1.0	2.5
LG13-4053	2.0	1.0	3.0	1.8	1.0	2.0
S12-3835	1.8	2.0	3.0	1.3	1.0	2.0
S13-11061	2.5	1.0	4.0	1.3	1.0	5.0
SA12-1394	1.7	3.0	1.3	1.3	1.1	1.0
SA12-1451	1.9	3.0	1.0	1.8	1.3	4.0
SA12-1471	1.9	1.0	1.0	1.0	1.0	3.0

PRELIMINARY TEST IV, 2015

LODGING (score)

Strain	Onaga KS	Ottawa KS	Columbia MO	Portageville Clay MO	Jack-son TN
LD06-7620 (IV)	1.0	1.0	2.3	2.5	2.0
LD00-2817P (L)	1.0	1.0	3.5	3.0	3.0
LD07-3395bf (SCN)	1.0	1.0	2.3	2.5	3.0
K13-1156	1.0	1.0	3.0	3.0	3.0
K13-1231	1.0	1.0	3.8	2.5	4.0
K13-1234	1.0	1.0	2.8	3.0	3.5
K13-1289	1.0	1.0	3.8	3.0	3.0
K13-1290	1.0	1.1	3.0	3.0	3.0
K13-1620	1.0	1.0	2.3	2.5	1.5
K13-1627	1.0	1.0	2.3	2.0	1.0
LD12-10534	1.0	1.0	1.8	2.5	2.0
LG11-6215	1.0	1.0	2.5	3.0	2.5
LG11-6761	1.0	1.0	3.3	3.0	2.5
LG12-3935	1.0	1.0	1.8	3.0	3.5
LG12-4045	1.1	1.0	2.3	3.0	3.0
LG13-3925	1.0	1.0	3.0	3.0	3.5
LG13-3981	1.0	1.0	3.3	3.0	3.5
LG13-3993	1.0	1.0	3.0	3.0	3.0
LG13-4053	1.0	1.0	3.0	3.0	3.5
S12-3835	1.0	1.0	2.5	3.0	1.5
S13-11061	1.0	1.0	4.3	3.0	3.5
SA12-1394	1.0	1.0	2.5	2.5	2.0
SA12-1451	1.0	1.1	3.3	2.0	1.0
SA12-1471	1.0	1.0	3.5	3.0	3.0

PRELIMINARY TEST IV, 2015

PLANT HEIGHT (inches)

Strain	Mean 10 Tests	Carbondale IL	Urbana IL	Butlerville IN	West Lafayette IN	Man-hattan KS
LD06-7620 (IV)	29	34	35	28	24	38
LD00-2817P (L)	35	35	43	34	31	43
LD07-3395bf (SCN)	29	34	30	28	23	38
K13-1156	36	39	43	28	32	45
K13-1231	34	38	40	28	32	41
K13-1234	34	32	37	30	32	44
K13-1289	34	39	38	32	30	42
K13-1290	36	40	43	35	31	43
K13-1620	34	42	40	33	29	43
K13-1627	32	41	37	30	25	38
LD12-10534	30	32	34	27	24	40
LG11-6215	33	35	41	30	26	43
LG11-6761	36	36	44	33	29	44
LG12-3935	32	32	41	28	26	41
LG12-4045	34	34	45	30	29	41
LG13-3925	37	35	43	35	32	45
LG13-3981	33	36	43	30	29	40
LG13-3993	33	38	40	27	27	43
LG13-4053	36	39	44	36	26	46
S12-3835	34	41	44	26	26	46
S13-11061	35	35	46	34	34	41
SA12-1394	32	36	39	28	27	40
SA12-1451	29	38	34	25	26	36
SA12-1471	35	32	42	28	31	45

PRELIMINARY TEST IV, 2015

PLANT HEIGHT (inches)

Strain	Onaga KS	Ottawa KS	Columbia MO	Portageville Clay MO	Jack-son TN
LD06-7620 (IV)	24	25	30	30	27
LD00-2817P (L)	29	32	36	34	36
LD07-3395bf (SCN)	23	26	27	27	31
K13-1156	31	34	37	35	37
K13-1231	27	31	32	34	35
K13-1234	29	32	31	35	39
K13-1289	29	32	32	31	39
K13-1290	29	31	35	35	40
K13-1620	27	29	34	30	32
K13-1627	26	29	31	29	32
LD12-10534	26	29	29	32	32
LG11-6215	28	30	32	35	32
LG11-6761	29	34	37	36	39
LG12-3935	30	30	30	30	37
LG12-4045	30	32	33	36	35
LG13-3925	35	35	38	36	38
LG13-3981	28	30	33	30	36
LG13-3993	26	29	35	34	34
LG13-4053	32	33	35	37	37
S12-3835	28	32	34	30	37
S13-11061	28	31	31	36	40
SA12-1394	28	30	31	30	34
SA12-1451	22	25	29	28	31
SA12-1471	30	32	35	36	38

PRELIMINARY TEST IV, 2015

SEED SIZE (g/100)

Strain	Mean 9 Tests	Carbondale IL	Urbana IL	Butlerville IN	West Lafayette IN	Man-hattan KS
LD06-7620 (IV)	14.1		15.5	13.2	13.6	10.4
LD00-2817P (L)	13.1		15.0	12.6	12.4	10.8
LD07-3395bf (SCN)	15.0		17.0	15.4	14.8	11.9
K13-1156	14.8		16.8	13.7	14.0	12.6
K13-1231	16.1		18.4	15.1	15.1	12.6
K13-1234	14.3		15.2	13.0	13.9	11.0
K13-1289	14.6		16.2	14.6	13.6	11.7
K13-1290	14.7		17.1	13.7	14.4	10.7
K13-1620	13.6		15.3	12.9	12.9	10.4
K13-1627	13.7		14.8	13.3	13.7	9.9
LD12-10534	14.1		16.1	12.7	13.8	11.0
LG11-6215	12.6		14.7	11.6	12.1	10.6
LG11-6761	14.7		17.7	13.3	13.6	11.8
LG12-3935	15.0		16.4	13.8	13.9	12.6
LG12-4045	15.9		18.3	14.7	15.8	12.2
LG13-3925	15.0		17.3	14.0	14.4	12.2
LG13-3981	16.4		18.7	14.9	15.1	11.3
LG13-3993	16.2		19.3	15.1	15.9	12.5
LG13-4053	15.4		16.9	14.5	13.9	12.1
S12-3835	15.9		20.1	15.4	15.1	12.8
S13-11061	15.9		19.2	15.5	15.8	12.1
SA12-1394	15.1		16.8	13.6	14.4	12.7
SA12-1451	12.3		13.7	11.3	11.6	10.0
SA12-1471	15.3		17.8	14.2	15.7	10.2

PRELIMINARY TEST IV, 2015

SEED SIZE (g/100)

Strain	Onaga KS	Ottawa KS	Columbia MO	Portageville Clay MO	Jack-son TN
LD06-7620 (IV)	11.0	18.8	13.6	15.0	15.6
LD00-2817P (L)	10.2	16.5	12.9	13.7	13.7
LD07-3395bf (SCN)	11.8	17.8	14.4	16.4	15.8
K13-1156	14.6	16.8	13.7	16.0	14.7
K13-1231	15.2	19.0	15.7	17.4	16.2
K13-1234	14.3	17.0	13.3	16.0	15.1
K13-1289	12.7	17.0	14.6	15.5	15.9
K13-1290	13.2	17.7	13.7	16.2	15.5
K13-1620	12.7	15.3	13.5	15.4	13.6
K13-1627	13.1	15.4	13.3	15.3	14.3
LD12-10534	12.5	17.3	13.5	16.0	14.2
LG11-6215	11.2	14.6	12.7	13.2	12.3
LG11-6761	13.7	17.1	14.6	15.1	15.8
LG12-3935	14.1	17.4	14.8	16.4	15.7
LG12-4045	13.4	18.3	16.6	17.4	16.6
LG13-3925	12.5	17.4	14.9	17.2	15.4
LG13-3981	18.8	18.9	15.8	17.4	17.0
LG13-3993	13.9	18.9	15.6	17.9	16.8
LG13-4053	14.0	18.9	14.8	17.8	15.8
S12-3835	13.6	18.0	14.9	16.8	16.2
S13-11061	13.1	17.9	15.7	16.9	17.3
SA12-1394	13.3	18.3	14.4	17.0	15.5
SA12-1451	10.8	15.3	11.0	14.0	13.1
SA12-1471	14.5	18.4	14.0	17.8	15.2

PRELIMINARY TEST IV, 2015

SEED QUALITY (score)

Strain	Mean 9 Tests	Carbondale IL	Urbana IL	Butlerville IN	West Lafayette IN	Man-hattan KS
LD06-7620 (IV)	2.4		2.0	1.5	1.0	3.0
LD00-2817P (L)	2.2		1.0	1.5	1.0	3.0
LD07-3395bf (SCN)	2.3		2.0	1.0	1.0	3.0
K13-1156	2.2		2.0	1.0	1.0	3.0
K13-1231	2.2		2.0	1.0	1.0	3.0
K13-1234	2.0		1.0	1.0	1.0	2.0
K13-1289	2.1		2.0	1.0	1.0	3.0
K13-1290	2.3		2.0	1.0	1.0	3.0
K13-1620	2.2		2.0	1.0	1.5	3.0
K13-1627	2.2		2.0	1.0	1.0	3.0
LD12-10534	2.0		1.0	1.0	1.0	3.0
LG11-6215	2.1		1.0	1.0	1.0	3.0
LG11-6761	2.2		2.0	1.0	1.0	3.0
LG12-3935	1.9		2.0	1.0	1.0	2.0
LG12-4045	2.2		2.0	1.0	1.0	3.0
LG13-3925	2.2		2.0	1.0	1.0	3.0
LG13-3981	2.2		2.0	1.0	1.0	3.0
LG13-3993	2.2		2.0	1.0	1.0	2.0
LG13-4053	2.1		1.0	1.0	1.0	3.0
S12-3835	2.2		1.0	1.0	1.5	3.0
S13-11061	2.2		2.0	1.0	1.0	3.0
SA12-1394	1.9		1.0	1.0	1.0	3.0
SA12-1451	2.3		2.0	1.0	1.0	3.0
SA12-1471	2.0		1.0	1.0	1.0	3.0

PRELIMINARY TEST IV, 2015

SEED QUALITY (score)

Strain	Onaga KS	Ottawa KS	Columbia MO	Portageville Clay MO	Jack-son TN
LD06-7620 (IV)	3.0	3.0	3.0	3.0	2.5
LD00-2817P (L)	3.0	2.0	3.0	3.0	2.0
LD07-3395bf (SCN)	3.0	3.0	2.5	3.0	2.5
K13-1156	3.0	2.0	3.0	3.0	2.0
K13-1231	3.0	3.0	2.5	2.5	2.0
K13-1234	3.0	2.0	3.0	3.0	2.0
K13-1289	2.0	2.0	2.5	3.0	2.0
K13-1290	3.0	3.0	2.5	3.0	2.0
K13-1620	3.0	2.0	2.5	3.0	1.5
K13-1627	3.0	2.0	3.0	3.0	2.0
LD12-10534	2.0	3.0	2.0	3.0	2.0
LG11-6215	2.0	3.0	2.5	3.0	2.0
LG11-6761	3.0	2.0	3.0	3.0	2.0
LG12-3935	2.0	2.0	2.5	3.0	2.0
LG12-4045	3.0	2.0	2.5	3.0	2.0
LG13-3925	3.0	3.0	2.0	3.0	2.0
LG13-3981	3.0	2.0	2.5	3.0	2.0
LG13-3993	3.0	3.0	2.0	3.0	2.5
LG13-4053	3.0	3.0	2.0	3.0	2.0
S12-3835	3.0	2.0	3.0	3.0	2.0
S13-11061	3.0	2.0	3.0	2.5	2.0
SA12-1394	3.0	1.0	2.0	3.0	2.0
SA12-1451	3.0	2.0	3.5	3.0	2.0
SA12-1471	3.0	2.0	2.0	3.0	2.0

PRELIMINARY TEST IV, 2015

PROTEIN (%)

Strain	Mean 6 Tests	Urbana IL	Butler-ville IN	West Lafayette IN	Man-hattan KS	Portageville Clay MO	Jackson TN
LD06-7620 (IV)	35.1	34.9	34.7	33.6	35.2	35.4	36.6
LD00-2817P (L)	33.2	32.1	32.8	31.8	34.9	33.5	34.2
LD07-3395bf (SCN)	33.5	32.5	32.9	32.1	34.8	34.6	33.9
K13-1156	36.4	35.6	35.9	35.2	37.7	36.3	37.7
K13-1231	36.2	35.6	36.0	34.7	37.5	35.9	37.6
K13-1234	35.2	34.1	34.9	33.9	37.3	34.6	36.3
K13-1289	35.8	35.9	35.5	34.5	37.7	34.4	36.9
K13-1290	36.0	35.7	35.4	35.2	37.9	35.3	36.3
K13-1620	35.5	34.9	35.5	35.1	36.5	35.9	35.4
K13-1627	35.3	34.8	35.1	34.9	36.1	34.6	36.5
LD12-10534	34.2	32.9	33.5	33.0	35.8	34.7	35.1
LG11-6215	36.0	34.7	35.8	35.4	37.3	36.2	36.6
LG11-6761	35.4	34.6	34.6	34.5	37.4	35.5	35.5
LG12-3935	34.1	32.7	34.0	32.8	35.4	34.9	34.9
LG12-4045	34.8	33.6	34.7	33.5	36.2	35.1	35.7
LG13-3925	34.8	33.4	34.4	33.6	36.1	35.1	36.2
LG13-3981	35.1	34.3	34.6	33.6	37.1	35.5	35.7
LG13-3993	34.1	33.5	33.6	33.3	35.8	34.4	34.2
LG13-4053	35.9	34.3	35.6	34.0	38.9	36.2	36.5
S12-3835	35.3	35.2	34.6	34.8	36.7	34.9	35.9
S13-11061	34.6	34.7	34.0	33.2	36.1	34.0	35.5
SA12-1394	36.5	35.6	36.1	35.2	37.7	36.1	38.1
SA12-1451	36.1	34.6	35.6	35.7	37.1	36.4	36.9
SA12-1471	36.0	34.1	35.7	35.2	38.1	36.1	36.8

PRELIMINARY TEST IV, 2015

OIL (%)

Strain	Mean 6 Tests	Urbana IL	Butler-ville IN	West Lafayette IN	Man-hattan KS	Portageville Clay MO	Jackson TN
LD06-7620 (IV)	19.0	18.7	19.1	19.4	18.1	19.0	19.5
LD00-2817P (L)	20.1	20.1	20.6	20.7	18.1	20.6	20.7
LD07-3395bf (SCN)	20.2	20.3	20.6	21.0	18.4	20.3	20.8
K13-1156	18.7	18.6	19.0	18.8	17.8	18.8	19.3
K13-1231	18.7	18.5	18.8	19.1	17.1	19.3	19.2
K13-1234	19.0	19.1	19.2	19.3	17.1	19.6	19.6
K13-1289	18.7	18.4	18.9	19.0	17.2	19.4	19.0
K13-1290	18.7	18.5	18.8	18.8	17.4	19.5	19.6
K13-1620	19.0	18.8	19.2	19.0	17.8	19.3	20.0
K13-1627	19.0	18.7	19.2	19.2	17.8	19.7	19.5
LD12-10534	19.3	19.3	20.0	19.6	17.9	19.6	19.5
LG11-6215	18.6	18.6	18.5	18.9	17.3	18.6	19.5
LG11-6761	19.0	19.2	19.3	19.2	17.1	19.3	20.0
LG12-3935	19.5	19.7	19.5	19.6	18.6	19.5	20.0
LG12-4045	18.7	19.2	18.7	18.9	17.0	19.1	19.5
LG13-3925	19.0	19.4	19.2	19.3	17.8	18.8	19.2
LG13-3981	19.2	19.6	19.5	19.6	17.2	19.4	19.9
LG13-3993	19.8	20.1	20.4	19.9	17.7	19.8	21.1
LG13-4053	19.1	19.6	19.4	19.8	16.8	19.4	19.8
S12-3835	19.0	19.1	19.2	19.2	17.5	19.7	19.6
S13-11061	19.2	18.9	19.5	19.3	17.7	19.8	19.9
SA12-1394	18.7	18.8	18.8	19.1	17.3	19.2	19.1
SA12-1451	18.7	19.0	18.9	18.8	17.4	18.9	19.2
SA12-1471	18.7	19.1	19.0	19.1	16.6	19.0	19.6

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UNIFORM TEST 00 Roundup-Ready, 2015

Ent.	Strain	Parentage	Seed Source	Previous Testing	Gen. Comp.	Unique Traits
1	AG00632 (00)		Monsanto			SCN
2.	AG00133		Monsanto			
3.	AG00932		Monsanto			
4.	ND12-20515	RG607RR x Ashtabula	Helms		F3	RR1, Rps6
5.	ND12-20540	RG607RR x Ashtabula	Helms		F3	RR1, Rps6
6.	ND12-21029	RG7008RR x ND03-5441	Helms		F3	RR1, Rps6
7.	ND12-21551	RG607RR x ND03-5441	Helms		F3	RR1, Rps6
8.	ND12-21598	OAC07-26C x RG607RR	Helms		F3	RR1
9.	ND12-21610	OAC07-26C x RG607RR	Helms		F3	RR1
10.	ND12-21663	OAC07-26C x RG607RR	Helms		F3	RR1
11.	ND12-21666	OAC07-26C x RG607RR	Helms		F3	RR1
12.	ND12-23032	Ashtabula x RG607RR	Helms		F3	RR1, Rps6
13.	ND12-23081	RG405RR x [Sheyenne x LaMoure]	Helms		F3	RR1
14.	ND12-23842	Pioneer 91M10 x RG7008RR	Helms		F3	RR1
15.	ND12-24081	RG200RR x ND07-18569	Helms		F3	RR1

UNIFORM TEST 00 ROUNDUP READY, 2015

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	IDC Score Crookston	IDC Score Moorehead	Shattering Score Manhattan
AG00632 (00)	PTBSYBI	1.0	1.0	1.0
AG00133	PTBSYBI	1.4	1.4	1.0
AG00932	WTBSYBI	1.1	1.1	1.0
ND12-20515	PGTSYBfI	2.0	2.0	1.0
ND12-20540	PGTSYBfI	2.1	2.1	1.0
ND12-21029	PTBSYYI	2.4	2.4	2.0
ND12-21551	PGTSYDibI	2.9	2.9	4.0
ND12-21598	PT+GB+TSYBI	1.9	1.9	1.0
ND12-21610	PTBSYYI	3.0	3.0	1.0
ND12-21663	WT+GB+TSYBrI	4.0	4.0	3.0
ND12-21666	P+WTBSYBrI	1.8	1.8	2.0
ND12-23032	PTBSYGI	1.9	1.9	1.0
ND12-23081	PGTDYBfI	2.8	2.8	1.0
ND12-23842	PGTSYGI	2.8	2.8	5.0
ND12-24081	WTBSYBI	3.3	3.3	2.0

UNIFORM TEST 00 ROUNDUP READY, 2015

REGIONAL SUMMARY

No. of Tests Strain	Yield 3 bu/a	Rank 3 No.	Maturity 4 Date	Lodging 3 Score	Plant Height 2 In	Seed Size 3 g/100	Seed Quality 3 Score	Composition Protein 3 %	 Oil 3 %
AG00632 (00)	54.9	5	9/7	1.0	28	17.2	2.0	34.1	19.2
AG00133	48.0	14	-4.0	1.0	22	17.0	1.7	34.6	19.5
AG00932	53.7	7	2.3	1.0	29	14.5	1.7	34.0	18.8
ND12-20515	54.0	6	4.0	1.0	28	12.3	1.3	33.5	19.2
ND12-20540	52.2	10	4.7	1.0	30	12.5	1.7	33.3	18.7
ND12-21029	47.4	15	-1.3	1.0	25	13.2	1.3	34.6	18.8
ND12-21551	55.4	3	10.7	1.2	29	13.9	1.3	32.9	19.9
ND12-21598	58.8	1	6.3	1.0	29	15.1	2.0	35.4	19.7
ND12-21610	53.2	8	6.7	1.0	29	13.1	1.7	34.3	18.6
ND12-21663	52.4	9	6.3	1.0	26	13.8	1.7	35.5	19.2
ND12-21666	55.2	4	7.7	1.0	26	13.7	1.7	35.4	18.6
ND12-23032	48.5	13	2.7	1.0	27	13.2	1.7	33.3	19.8
ND12-23081	57.5	2	9.3	1.1	31	13.0	1.7	32.2	19.6
ND12-23842	51.8	11	0.0	1.0	23	15.7	1.3	34.7	18.2
ND12-24081	49.6	12	1.0	1.0	25	13.5	1.7	33.3	19.5
Mean	47.7			1.0	27.0	13.2	1.9		
C.V. (%)	28.2			14.5	13.5	13.7	18.5		
L.S.D. (5%)	10.9			0.1	3.3	3.2	0.8		

111.0 Days After Planting

UNIFORM TEST 00 ROUNDUP READY, 2015

YIELD (bu/a)

Strain	Mean 3 Tests	Crook-ston MN	Moor-head MN*	Cassel-ton ND	North-wood ND
AG00632 (00)	54.9	46.6	40.5	52.4	65.8
AG00133	48.0	48.7	28.0	37.4	57.8
AG00932	53.7	50.5	35.1	51.5	59.2
ND12-20515	54.0	44.8	49.1	60.7	56.4
ND12-20540	52.2	48.4	41.4	54.0	54.1
ND12-21029	47.4	40.3	44.3	48.2	53.6
ND12-21551	55.4	43.8	45.6	60.6	61.8
ND12-21598	58.8	52.0	40.7	61.5	62.8
ND12-21610	53.2	49.8	30.1	55.3	54.6
ND12-21663	52.4	36.3	45.3	58.8	62.2
ND12-21666	55.2	47.1	44.6	58.8	59.7
ND12-23032	48.5	41.5	37.5	48.8	55.1
ND12-23081	57.5	53.1	42.3	59.7	59.7
ND12-23842	51.8	50.2	31.9	45.6	59.6
ND12-24081	49.6	45.0	35.1	53.4	50.3
Location Mean		47.1	40.7	54.0	59.2
C.V. (%)		11.8	25.7	9.4	8.6
L.S.D. (5%)		9.1	16.8	8.1	8.0
Row Sp. (in.)		12	10	30	30
Rows/Plot		8	8	4	4
Reps		3	3	3	3

*Data not included in the mean.

UNIFORM TEST 00 ROUNDUP READY, 2015

YIELD RANK

Strain	Yield Rank	Crook-ston MN	Moor-head MN	Cassel-ton ND	North-wood ND
AG00632 (00)	5	9	9	10	1
AG00133	14	6	15	15	9
AG00932	7	3	11	11	8
ND12-20515	6	11	1	2	10
ND12-20540	10	7	7	8	13
ND12-21029	15	14	5	13	14
ND12-21551	3	12	2	3	4
ND12-21598	1	2	8	1	2
ND12-21610	8	5	14	7	12
ND12-21663	9	15	3	5	3
ND12-21666	4	8	4	5	5
ND12-23032	13	13	10	12	11
ND12-23081	2	1	6	4	5
ND12-23842	11	4	13	14	7
ND12-24081	12	10	11	9	15

MATURITY (date)

Strain	Mean 4 Tests	Crook-ston MN	Moor-head MN	Cassel-ton ND	North-wood ND
AG00632 (00)	9/7	8/31	9/17	9/1	9/13
AG00133	-4	0	-5	-3	-8
AG00932	2	2	3	5	0
ND12-20515	4	4	4	9	-1
ND12-20540	5	4	5	10	0
ND12-21029	-1	1	1	1	-6
ND12-21551	11	12	7	15	5
ND12-21598	6	6	6	12	1
ND12-21610	7	9	11	12	-1
ND12-21663	6	12	4	9	-2
ND12-21666	8	12	4	11	0
ND12-23032	3	5	0	6	-3
ND12-23081	9	9	8	15	4
ND12-23842	0	1	3	5	-6
ND12-24081	1	5	4	4	-6
Date Planted	5/19	5/15	6/5	5/5	5/23
Days to Mature	111.0	108	104	119	113

UNIFORM TEST 00 ROUNDUP READY, 2015

LODGING (score)

Strain	Mean 3 Tests	Crook-ston MN	Moor-head MN	Cassel-ton ND	North-wood ND
AG00632 (00)	1.0	1.0		1.0	1.0
AG00133	1.0	1.0		1.0	1.0
AG00932	1.0	1.0		1.0	1.0
ND12-20515	1.0	1.0		1.0	1.0
ND12-20540	1.0	1.0		1.0	1.0
ND12-21029	1.0	1.0		1.0	1.0
ND12-21551	1.2	1.7		1.0	1.0
ND12-21598	1.0	1.0		1.0	1.0
ND12-21610	1.0	1.0		1.0	1.0
ND12-21663	1.0	1.0		1.0	1.0
ND12-21666	1.0	1.0		1.0	1.0
ND12-23032	1.0	1.0		1.0	1.0
ND12-23081	1.1	1.3		1.0	1.0
ND12-23842	1.0	1.0		1.0	1.0
ND12-24081	1.0	1.0		1.0	1.0

PLANT HEIGHT (inches)

Strain	Mean 2 Tests	Crook-ston MN	Moor-head MN	Cassel-ton ND	North-wood ND
AG00632 (00)	28	31		25	
AG00133	22	24		20	
AG00932	29	32		26	
ND12-20515	28	29		27	
ND12-20540	30	31		28	
ND12-21029	25	26		23	
ND12-21551	29	30		28	
ND12-21598	29	31		27	
ND12-21610	29	30		27	
ND12-21663	26	25		27	
ND12-21666	26	26		26	
ND12-23032	27	30		24	
ND12-23081	31	32		29	
ND12-23842	23	24		21	
ND12-24081	25	26		24	

UNIFORM TEST 00 ROUNDUP READY, 2015

SEED SIZE (g/100)

Strain	Mean 3 Tests	Crook-ston MN	Moor-head MN	Cassel-ton ND	North-wood ND
AG00632 (00)	17.2	13.2	17.9	20.6	
AG00133	17.0	14.8	16.9	19.3	
AG00932	14.5	13.7	13.2	16.5	
ND12-20515	12.3	9.4	13.0	14.4	
ND12-20540	12.5	9.7	12.8	15.0	
ND12-21029	13.2	12.3	13.1	14.3	
ND12-21551	13.9	12.9	13.2	15.7	
ND12-21598	15.1	13.9	14.4	17.1	
ND12-21610	13.1	11.9	13.0	14.5	
ND12-21663	13.8	12.7	13.1	15.5	
ND12-21666	13.7	11.9	13.8	15.4	
ND12-23032	13.2	10.6	13.3	15.8	
ND12-23081	13.0	11.2	13.1	14.7	
ND12-23842	15.7	15.1	15.7	16.3	
ND12-24081	13.5	12.5	12.4	15.5	

SEED QUALITY (score)

Strain	Mean 3 Tests	Crook-ston MN	Moor-head MN	Cassel-ton ND	North-wood ND
AG00632 (00)	2.0	2.0	2.0	2.0	
AG00133	1.7	2.0	2.0	1.0	
AG00932	1.7	2.0	2.0	1.0	
ND12-20515	1.3	1.0	2.0	1.0	
ND12-20540	1.7	2.0	2.0	1.0	
ND12-21029	1.3	1.0	2.0	1.0	
ND12-21551	1.3	2.0	1.0	1.0	
ND12-21598	2.0	2.0	2.0	2.0	
ND12-21610	1.7	2.0	2.0	1.0	
ND12-21663	1.7	2.0	2.0	1.0	
ND12-21666	1.7	2.0	2.0	1.0	
ND12-23032	1.7	2.0	2.0	1.0	
ND12-23081	1.7	2.0	2.0	1.0	
ND12-23842	1.3	2.0	1.0	1.0	
ND12-24081	1.7	2.0	2.0	1.0	

UNIFORM TEST 00 ROUNDUP READY, 2015

PROTEIN (%)

Strain	Mean 3 Tests	Crookston MN	Moorehead MN	Casselton ND
AG00632 (00)	34.1	33.9	33.8	34.6
AG00133	34.6	34.2	34.1	35.4
AG00932	34.0	34.8	32.7	34.6
ND12-20515	33.5	33.2	33.6	33.8
ND12-20540	33.3	32.4	32.7	34.7
ND12-21029	34.6	35.6	32.6	35.5
ND12-21551	32.9	31.2	32.9	34.7
ND12-21598	35.4	34.8	35.0	36.4
ND12-21610	34.3	33.2	33.8	35.9
ND12-21663	35.5	37.0	33.4	36.1
ND12-21666	35.4	35.4	34.6	36.2
ND12-23032	33.3	33.1	32.8	34.0
ND12-23081	32.2	30.3	32.5	33.8
ND12-23842	34.7	34.9	33.4	35.8
ND12-24081	33.3	30.3	33.1	36.4

OIL (%)

Strain	Mean 3 Tests	Crookston MN	Moorehead MN	Casselton ND
AG00632 (00)	19.2	16.9	20.6	20.1
AG00133	19.5	18.1	20.2	20.2
AG00932	18.8	17.9	19.1	19.3
ND12-20515	19.2	18.0	19.5	20.1
ND12-20540	18.7	17.2	19.3	19.6
ND12-21029	18.8	17.1	19.7	19.5
ND12-21551	19.9	19.7	19.5	20.4
ND12-21598	19.7	19.9	19.6	19.5
ND12-21610	18.6	17.1	19.7	18.9
ND12-21663	19.2	18.4	19.3	19.8
ND12-21666	18.6	18.3	18.8	18.8
ND12-23032	19.8	18.8	20.3	20.3
ND12-23081	19.6	19.2	19.2	20.5
ND12-23842	18.2	17.3	18.1	19.1
ND12-24081	19.5	19.3	19.7	19.4

UNIFORM TEST 0 Roundup-Ready, 2015

Ent.	Strain	Parentage	Seed Source	Previous Testing	Gen. Comp.	Unique Traits
1	AG0532 (0)		Monsanto	3		
2.	AG0231 (E)		Monsanto	3		
3.	AG0832		Monsanto	4		
4.	AG1234		Monsanto			
5.	M09-876012	MN1701CN x MN1410BC2R2F2-4	Orf	1	F5	R2CN
6.	M09-876048	MN1701CN x MN1410BC2R2F2-4	Orf	1	F5	R2CN
7.	M09-878011	MN1410 x MN1410BC2R2F2-4	Orf	1	F5	R2Yield
8.	M09-878072	MN1410 x MN1410BC2R2F2-4	Orf	1	F5	R2Yield
9.	M09-878087	MN1410 x MN1410BC2R2F2-4	Orf	1	F5	R2Yield
10.	M09-956021	MN1410 x MN1410BC2R2F3	Orf		F5	RR2
11.	M09-957051	MN1701CN x MN1410BC2R2F3	Orf		F5	RR2CN
12.	MN1410R2F5-83	MN1410*3 x R2 From Monsanto R2BC2	Orf	2	F5	R2
13.	MN1410R2F5-121	MN1410*3 x R2 From Monsanto R2BC2	Orf	2	F5	R2
14.	ND12-20566	RG607RR x Ashtabula	Helms		F3	RR1, Rps6
15.	ND12-20600	RG607RR x Ashtabula	Helms		F3	RR1, Rps6
16.	ND12-20611	RG607RR x Ashtabula	Helms		F3	RR1, Rps6
17.	ND12-20915	RG7008RR x Sheyenne	Helms		F3	RR1
18.	ND12-21077	RG7008RR x ND03-5441	Helms		F3	RR1, Rps6
19.	ND12-21092	RG7008RR x ND03-5441	Helms		F3	RR1, Rps6
20.	ND12-21211	OAC06-02 x RG7008RR	Helms		F3	RR1
21.	ND12-21283	Pioneer 91M10 x RG200RR	Helms		F3	RR1
22.	ND12-21292	Pioneer 91M10 x RG200RR	Helms		F3	RR1
23.	ND12-21575	OAC07-26C x RG607RR	Helms		F3	RR1
24.	ND12-21622	OAC07-26C x RG607RR	Helms		F3	RR1
25.	ND12-21733	RG200RR x ND07-18569	Helms		F3	RR1
26.	ND12-23230	RG405RR x [Sheyenne x LaMoure]	Helms		F3	RR1
27.	ND12-23562	Ashtabula x RG200RR	Helms		F3	RR1
28.	ND12-23760	Sheyenne x RG607RR	Helms		F3	RR1
29.	ND12-24175	RG200RR x ND07-18569	Helms		F3	RR1

UNIFORM TEST 0 ROUNDUP READY, 2015

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	IDC Score Morris	IDC Score Rosemount	Shattering Score Manhattan
AG0532 (0)	WTBSYBI	3.0	3.0	3.0
AG0231 (E)	WTBDYDibI	2.3	2.3	1.0
AG0832	PGTSYBr+BfI	2.6	2.6	3.0
AG1234	PGBSYBI	2.8	2.8	1.0
M09-876012	P+WGTSYBr+YI	3.9	3.9	2.0
M09-876048	PGTIYGI	3.1	3.1	2.0
M09-878011	PGTIYDibI	3.5	3.5	2.0
M09-878072	P+WGTSYBrI	3.3	3.3	2.0
M09-878087	P+WGTSYDibI	4.0	4.0	3.0
M09-956021	P+WGTSYBrI	3.9	3.9	4.0
M09-957051	P+WGTSYGI	3.6	3.6	2.0
MN1410R2F5-83	P+WGTSYBfI	4.5	4.5	1.0
MN1410R2F5-121	PGTSYDibI	4.1	4.1	2.0
ND12-20566	PGTSYBfI	2.9	2.9	2.0
ND12-20600	PGTSYBfI	2.5	2.5	3.0
ND12-20611	PGTSYBfI	2.9	2.9	2.0
ND12-20915	PGTSYYI	3.4	3.4	3.0
ND12-21077	WGTSYYI	3.0	3.0	1.0
ND12-21092	PGTSYY+GI	3.5	3.5	2.0
ND12-21211	PTBSYBrI	3.5	3.5	1.0
ND12-21283	PGTSYGI	3.5	3.5	2.0
ND12-21292	PGTSYYI	2.3	2.3	2.0
ND12-21575	PTBSYBI	4.0	4.0	1.0
ND12-21622	WTBSYYI	4.1	4.1	4.0
ND12-21733	PGTSYGI	2.8	2.8	1.0
ND12-23230	PGTSYBfI	4.9	4.9	1.0
ND12-23562	PGTSYBfI	5.0	5.0	1.0
ND12-23760	PGTSYYI	3.6	3.6	3.0
ND12-24175	PGTSYDibI	3.9	3.9	3.0

UNIFORM TEST 0 ROUNDUP READY, 2015

REGIONAL SUMMARY

No. of Tests Strain	Yield 5 bu/a	Rank 5 No.	Maturity 5 Date	Lodging 5 Score	Plant Height 4 In.	Seed Size 4 g/100	Seed Quality 4 Score	Composition Protein 4 %	 Oil 4 %
AG0532 (0)	39.8	29	9/20	1.0	29	16.7	1.7	36.6	19.2
AG0231 (E)	50.1	28	-6.6	1.2	31	17.7	1.6	35.2	19.3
AG0832	61.1	3	-2.5	1.4	34	17.9	1.8	36.5	19.6
AG1234	58.6	10	-2.0	1.6	36	15.1	1.8	35.7	19.2
M09-876012	59.4	5	-1.7	2.7	36	14.1	1.9	36.8	18.9
M09-876048	62.0	1	-1.0	1.9	33	15.9	2.0	35.4	19.4
M09-878011	59.1	8	-2.0	1.7	34	17.3	1.9	36.7	19.1
M09-878072	58.0	11	-1.3	1.9	35	17.7	2.1	37.1	19.1
M09-878087	58.7	9	-2.8	2.1	33	17.1	1.8	35.6	20.2
M09-956021	59.4	5	2.3	1.9	36	16.2	2.0	36.1	19.4
M09-957051	59.2	7	-0.3	1.8	35	15.5	2.3	36.2	19.0
MN1410R2F5-83	59.5	4	-6.3	2.0	32	15.8	2.2	38.0	18.3
MN1410R2F5-121	61.4	2	0.0	2.0	36	15.3	1.8	37.5	18.6
ND12-20566	52.7	22	-8.5	1.7	32	14.6	2.0	35.8	19.5
ND12-20600	54.1	16	-8.8	1.7	31	15.4	2.0	36.0	19.8
ND12-20611	51.9	25	-8.2	1.7	32	15.6	1.8	35.9	20.1
ND12-20915	53.6	18	-4.0	2.3	37	15.0	2.0	34.7	20.5
ND12-21077	52.3	24	-6.6	1.3	33	17.2	2.2	37.0	19.1
ND12-21092	57.0	12	-3.2	1.6	34	15.9	2.2	35.3	20.8
ND12-21211	52.4	23	-6.8	1.9	33	15.3	1.8	35.5	19.5
ND12-21283	54.1	16	-5.5	1.8	32	13.9	1.9	37.3	19.1
ND12-21292	53.0	21	-5.8	1.9	34	14.1	1.8	36.1	19.5
ND12-21575	53.2	20	-7.8	1.6	34	15.9	2.0	37.5	20.3
ND12-21622	54.3	14	-7.6	1.7	34	16.4	2.0	36.4	19.9
ND12-21733	54.2	15	-3.6	2.2	36	16.6	1.7	37.3	19.1
ND12-23230	53.5	19	-5.6	1.7	37	16.6	1.8	34.8	21.3
ND12-23562	51.1	27	-5.0	1.6	35	16.7	1.8	34.8	21.3
ND12-23760	55.7	13	-5.8	1.3	32	15.2	2.0	35.4	19.7
ND12-24175	51.6	26	-7.6	1.8	34	15.1	2.0	36.7	19.0
Mean	55.2			1.8	33.9	17.0	1.8		
C.V. (%)	22.8			49.6	14.5	12.0	23.7		
L.S.D. (5%)	8.7			0.6	3.8	2.3	1.0		

123.2 Days After Planting

UNIFORM TEST 0 ROUNDUP READY, 2015

2014-2015 2-Year Mean

No. of Tests Strain	Yield 10 bu/a	Rank 10 No.	Maturity 10 Date	Lodging 10 Score	Plant Height 6 In.	Seed Size 8 g/100	Seed Quality 6 Score	Composition Protein 8 %	 Oil 8 %
AG0532 (0)	45.1	10	9/20	1.0	29	16.6	1.6	35.1	18.6
AG0231 (E)	48.5	9	-5	1.1	31	17.7	1.8	34.5	18.8
AG0832	59.2	2	1	1.3	33	18.2	1.8	35.4	19.0
M09-876012	58.8	3	1	2.4	35	14.1	1.9	35.6	18.4
M09-876048	60.0	1	1	1.7	31	15.7	2.0	34.3	19.0
M09-878011	58.8	3	1	1.6	34	17.2	1.7	35.7	18.7
M09-878072	57.1	7	1	1.5	34	17.5	1.8	36.1	18.6
M09-878087	57.0	8	0	2.1	33	17.1	1.8	34.9	19.3
MN1410R2F5-83	57.7	6	-2	1.7	33	15.3	1.9	37.0	17.9
MN1410R2F5-121	58.6	5	2	1.9	35	15.3	1.7	36.3	18.3

119.1 Days After Planting

2013-2015 3-Year Mean

No. of Tests Strain	13	13	14	14	6	12	8	12	12
AG0532 (0)	45.6	4	9/20	1.0	29	16.6	1.8	35.5	18.3
AG0231 (E)	46.5	3	-6	1.1	31	17.5	1.9	34.6	18.6
MN1410R2F5-83	53.7	2	-2	1.6	33	15.2	2.0	37.1	17.5
MN1410R2F5-121	56.6	1	3	1.9	34	15.3	1.7	36.5	17.9

120.7 Days After Planting

UNIFORM TEST 0 ROUNDUP READY, 2015

YIELD (bu/a)

Strain	Mean 5 Tests	Morris MN	Rose-mount MN	Casselton ND	Fair-mount ND	Saint Hyacinthe QUE
AG0532 (0)	39.8	31.3	42.5	20.7	54.5	49.8
AG0231 (E)	50.1	34.6	42.7	53.9	59.2	59.9
AG0832	61.1	43.8	54.8	71.2	60.0	75.5
AG1234	58.6	46.7	51.2	65.7	50.9	78.6
M09-876012	59.4	46.0	53.7	74.3	63.4	59.8
M09-876048	62.0	49.1	46.7	73.1	67.5	73.7
M09-878011	59.1	39.5	47.0	71.3	64.5	73.2
M09-878072	58.0	42.0	42.2	67.6	60.0	78.3
M09-878087	58.7	40.9	50.1	71.4	61.1	70.1
M09-956021	59.4	42.8	49.9	66.4	67.4	70.5
M09-957051	59.2	45.1	50.0	66.4	65.2	69.4
MN1410R2F5-83	59.5	43.5	44.7	69.6	64.5	75.0
MN1410R2F5-121	61.4	43.1	55.3	70.0	64.3	74.1
ND12-20566	52.7	41.9	45.5	49.1	60.3	66.6
ND12-20600	54.1	37.1	58.0	51.7	59.3	64.3
ND12-20611	51.9	39.9	47.0	45.3	58.6	68.6
ND12-20915	53.6	39.7	56.5	53.3	59.2	59.3
ND12-21077	52.3	34.6	59.8	53.6	55.8	57.9
ND12-21092	57.0	36.2	57.9	67.4	58.0	65.4
ND12-21211	52.4	37.8	51.8	56.7	57.8	58.1
ND12-21283	54.1	42.9	43.6	62.9	56.1	64.8
ND12-21292	53.0	36.5	45.6	61.1	58.0	63.7
ND12-21575	53.2	39.0	48.7	53.5	60.8	63.8
ND12-21622	54.3	39.8	50.6	60.5	57.7	62.8
ND12-21733	54.2	40.0	44.0	63.2	60.7	62.9
ND12-23230	53.5	33.2	47.7	61.2	57.5	67.7
ND12-23562	51.1	33.9	42.2	56.8	55.0	67.8
ND12-23760	55.7	39.9	46.4	66.1	58.3	68.0
ND12-24175	51.6	36.0	47.5	56.4	62.3	55.9
Location Mean		39.9	47.7	62.9	59.3	66.6
C.V. (%)		12.6	14.7	11.0	7.6	5.6
L.S.D. (5%)		8.3	11.9	10.7	3.7	6.1
Row Sp. (In.)		30	30	30	30	14.2
Rows/Plot		4	4	4	4	4
Reps		3	3	3	3	3

UNIFORM TEST 0 ROUNDUP READY, 2015

YIELD RANK

Strain	Yield Rank	Morris MN	Rose-mount MN	Casselton ND	Fair-mount ND	Saint Hyacinthe QUE
AG0532 (0)	29	29	27	29	28	29
AG0231 (E)	28	25	26	22	17	23
AG0832	3	5	6	5	13	3
AG1234	10	2	9	13	29	1
M09-876012	5	3	7	1	7	24
M09-876048	1	1	19	2	1	6
M09-878011	8	18	17	4	4	7
M09-878072	11	10	28	8	13	2
M09-878087	9	12	11	3	9	9
M09-956021	5	9	13	10	2	8
M09-957051	7	4	12	10	3	10
MN1410R2F5-83	4	6	23	7	4	4
MN1410R2F5-121	2	7	5	6	6	5
ND12-20566	22	11	22	27	12	15
ND12-20600	16	21	2	26	15	18
ND12-20611	25	14	17	28	18	11
ND12-20915	18	17	4	25	15	25
ND12-21077	24	25	1	23	26	27
ND12-21092	12	23	3	9	20	16
ND12-21211	23	20	8	20	22	26
ND12-21283	16	8	25	15	25	17
ND12-21292	21	22	21	17	20	20
ND12-21575	20	19	14	24	10	19
ND12-21622	14	16	10	18	23	22
ND12-21733	15	13	24	14	11	21
ND12-23230	19	28	15	16	24	14
ND12-23562	27	27	28	19	27	13
ND12-23760	13	14	20	12	19	12
ND12-24175	26	24	16	21	8	28

UNIFORM TEST 0 ROUNDUP READY, 2015

MATURITY (date)

Strain	Mean 5 Tests	Morris MN	Rose-mount MN	Casselton ND	Fair-mount ND	Saint Hyacinthe QUE
AG0532 (0)	9/20	9/13	9/24	10/1	9/15	9/20
AG0231 (E)	-7	-4	-8	-16	-3	-2
AG0832	-3	3	-2	-9	0	1
AG1234	-2	5	1	-8	0	2
M09-876012	-2	1	1	-7	1	1
M09-876048	-1	2	0	-7	2	2
M09-878011	-2	6	-2	-10	1	3
M09-878072	-1	1	-1	-10	3	3
M09-878087	-3	3	-4	-9	1	1
M09-956021	2	9	0	-3	5	5
M09-957051	-0	8	2	-6	2	3
MN1410R2F5-83	-6	11	-10	-15	-1	1
MN1410R2F5-121	0	4	1	-7	4	3
ND12-20566	-9	0	-11	-15	-6	-2
ND12-20600	-9	-5	-11	-22	-4	-2
ND12-20611	-8	-5	-9	-18	-6	-3
ND12-20915	-4	0	-3	-13	-1	1
ND12-21077	-7	-4	-10	-15	-4	0
ND12-21092	-3	-1	-5	-11	1	0
ND12-21211	-7	-5	-11	-12	-4	-2
ND12-21283	-6	2	-7	-13	0	-2
ND12-21292	-6	2	-8	-12	-3	0
ND12-21575	-8	-4	-10	-17	-5	-3
ND12-21622	-8	-7	-10	-15	-3	-3
ND12-21733	-4	-2	-6	-10	0	0
ND12-23230	-6	-2	-9	-14	-2	-1
ND12-23562	-5	-2	-7	-15	-2	1
ND12-23760	-6	0	-6	-15	-1	-1
ND12-24175	-8	-4	-11	-18	-3	-2
Date Planted	5/20	5/22	6/6	5/5	5/22	5/16
Days to Mature	123.2	114	110	149	116	127

UNIFORM TEST 0 ROUNDUP READY, 2015

LODGING (score)

Strain	Mean 5 Tests	Morris MN	Rose-mount MN	Casselton ND	Fair-mount ND	Saint Hyacinthe QUE
AG0532 (0)	1.0	1.0	1.0	1.0	1.0	1.0
AG0231 (E)	1.2	1.3	1.3	1.0	1.0	1.3
AG0832	1.4	1.7	1.7	1.0	1.0	1.7
AG1234	1.6	2.0	2.0	1.0	1.0	2.0
M09-876012	2.7	3.3	3.3	1.0	1.0	4.7
M09-876048	1.9	2.7	2.7	1.0	1.0	2.0
M09-878011	1.7	2.0	2.0	1.0	1.0	2.7
M09-878072	1.9	2.7	2.7	1.0	1.0	2.0
M09-878087	2.1	2.7	2.7	1.0	1.0	3.0
M09-956021	1.9	2.3	2.3	1.0	1.0	2.7
M09-957051	1.8	2.3	2.3	1.0	1.0	2.3
MN1410R2F5-83	2.0	2.3	2.3	1.0	1.0	3.3
MN1410R2F5-121	2.0	3.0	3.0	1.0	1.0	2.0
ND12-20566	1.7	2.0	2.0	1.0	1.0	2.3
ND12-20600	1.7	2.0	2.0	1.0	1.0	2.3
ND12-20611	1.7	2.0	2.0	1.0	1.0	2.7
ND12-20915	2.3	2.7	2.7	1.0	1.0	4.0
ND12-21077	1.3	1.3	1.3	1.0	1.0	2.0
ND12-21092	1.6	2.0	2.0	1.0	1.0	2.0
ND12-21211	1.9	2.3	2.3	1.0	1.0	3.0
ND12-21283	1.8	2.7	2.7	1.0	1.0	1.7
ND12-21292	1.9	2.0	2.0	1.0	1.0	3.3
ND12-21575	1.6	2.0	2.0	1.0	1.0	2.0
ND12-21622	1.7	2.3	2.3	1.0	1.0	1.7
ND12-21733	2.2	2.7	2.7	1.0	1.0	3.7
ND12-23230	1.7	2.0	2.0	1.0	1.0	2.7
ND12-23562	1.6	1.7	1.7	1.0	1.0	2.7
ND12-23760	1.3	1.7	1.7	1.0	1.0	1.0
ND12-24175	1.8	2.0	2.0	1.0	1.0	3.0

UNIFORM TEST 0 ROUNDUP READY, 2015

PLANT HEIGHT (inches)

Strain	Mean 4 Tests	Morris MN	Rose-mount MN	Casselton ND	Fair-mount ND	Saint Hyacinthe QUE
AG0532 (0)	29	29	29	25		32
AG0231 (E)	31	30	30	29		36
AG0832	34	32	32	30		41
AG1234	36	37	37	29		41
M09-876012	36	35	35	30		44
M09-876048	33	33	33	28		40
M09-878011	34	34	34	30		39
M09-878072	35	35	35	29		41
M09-878087	33	32	32	27		40
M09-956021	36	36	36	32		40
M09-957051	35	35	35	28		41
MN1410R2F5-83	32	31	31	29		37
MN1410R2F5-121	36	36	36	30		43
ND12-20566	32	33	33	24		37
ND12-20600	31	32	32	25		37
ND12-20611	32	32	32	24		38
ND12-20915	37	38	38	29		42
ND12-21077	33	31	31	30		40
ND12-21092	34	33	33	33		39
ND12-21211	33	35	35	26		37
ND12-21283	32	32	32	28		36
ND12-21292	34	34	34	32		38
ND12-21575	34	36	36	25		38
ND12-21622	34	33	33	30		39
ND12-21733	36	36	36	34		40
ND12-23230	37	36	36	32		44
ND12-23562	35	34	34	31		43
ND12-23760	32	31	31	30		38
ND12-24175	34	34	34	29		41

UNIFORM TEST 0 ROUNDUP READY, 2015

SEED SIZE (g/100)

Strain	Mean 4 Tests	Morris MN	Rose-mount MN	Casselton ND	Fair-mount ND	Saint Hyacinthe QUE
AG0532 (0)	16.7	16.8	14.8	17.2		17.8
AG0231 (E)	17.7	16.3	16.7	17.3		20.5
AG0832	17.9	17.0	17.7	16.5		20.5
AG1234	15.1	14.7	14.8	13.8		17.2
M09-876012	14.1	14.5	13.7	13.0		15.0
M09-876048	15.9	15.5	15.7	14.8		17.5
M09-878011	17.3	17.0	18.0	15.2		18.9
M09-878072	17.7	16.9	17.3	17.0		19.7
M09-878087	17.1	15.1	16.4	16.8		20.2
M09-956021	16.2	15.5	16.0	14.7		18.4
M09-957051	15.5	15.9	15.4	14.0		16.8
MN1410R2F5-83	15.8	14.8	14.2	16.2		18.1
MN1410R2F5-121	15.3	13.8	15.1	14.7		17.5
ND12-20566	14.6	12.8	13.2	14.6		17.9
ND12-20600	15.4	15.2	13.7	15.0		17.5
ND12-20611	15.6	16.1	14.0	14.6		17.7
ND12-20915	15.0	14.3	14.1	14.3		17.1
ND12-21077	17.2	16.6	15.6	15.1		21.3
ND12-21092	15.9	15.6	14.6	15.3		18.2
ND12-21211	15.3	14.1	13.7	14.3		19.0
ND12-21283	13.9	13.3	13.3	13.0		15.8
ND12-21292	14.1	14.2	12.5	13.1		16.6
ND12-21575	15.9	15.7	14.6	15.1		18.1
ND12-21622	16.4	16.0	14.8	15.9		18.9
ND12-21733	16.6	16.0	16.0	15.9		18.6
ND12-23230	16.6	16.5	15.5	15.0		19.4
ND12-23562	16.7	16.3	16.3	15.4		18.9
ND12-23760	15.2	14.1	14.6	14.8		17.1
ND12-24175	15.1	14.9	13.9	13.9		17.6

UNIFORM TEST 0 ROUNDUP READY, 2015

SEED QUALITY (score)

Strain	Mean 4 Tests	Morris MN	Rose-mount MN	Casselton ND	Fair-mount ND	Saint Hyacinthe QUE
AG0532 (0)	1.7	1.0	2.0	1.0		2.7
AG0231 (E)	1.6	1.0	2.0	1.0		2.3
AG0832	1.8	1.0	2.0	1.0		3.0
AG1234	1.8	1.0	2.0	1.0		3.0
M09-876012	1.9	1.0	2.0	1.0		3.7
M09-876048	2.0	2.0	2.0	1.0		3.0
M09-878011	1.9	1.0	2.0	1.0		3.7
M09-878072	2.1	2.0	2.0	1.0		3.3
M09-878087	1.8	1.0	2.0	1.0		3.0
M09-956021	2.0	2.0	2.0	1.0		3.0
M09-957051	2.3	2.0	2.0	1.0		4.0
MN1410R2F5-83	2.2	2.0	2.0	1.0		3.7
MN1410R2F5-121	1.8	1.0	2.0	1.0		3.0
ND12-20566	2.0	2.0	2.0	1.0		3.0
ND12-20600	2.0	2.0	2.0	1.0		3.0
ND12-20611	1.8	1.0	2.0	1.0		3.0
ND12-20915	2.0	2.0	2.0	1.0		3.0
ND12-21077	2.2	2.0	2.0	1.0		3.7
ND12-21092	2.2	2.0	2.0	1.0		3.7
ND12-21211	1.8	1.0	2.0	1.0		3.0
ND12-21283	1.9	2.0	2.0	1.0		2.7
ND12-21292	1.8	2.0	2.0	1.0		2.3
ND12-21575	2.0	2.0	2.0	1.0		3.0
ND12-21622	2.0	2.0	2.0	1.0		3.0
ND12-21733	1.7	1.0	2.0	1.0		2.7
ND12-23230	1.8	1.0	2.0	1.0		3.3
ND12-23562	1.8	1.0	2.0	1.0		3.0
ND12-23760	2.0	2.0	2.0	1.0		3.0
ND12-24175	2.0	2.0	2.0	1.0		3.0

UNIFORM TEST 0 ROUNDUP READY, 2015

PROTEIN (%)

Strain	Mean 4 Tests	Morris MN	Rosemount MN	Casselton ND	Saint Hyacinthe QUE
AG0532 (0)	36.6	35.5	36.2	34.4	40.4
AG0231 (E)	35.2	34.3	33.1	33.4	40.0
AG0832	36.5	34.1	34.7	35.0	42.0
AG1234	35.7	34.0	34.8	33.4	40.4
M09-876012	36.8	34.5	35.5	35.1	42.0
M09-876048	35.4	33.3	34.9	33.1	40.1
M09-878011	36.7	35.7	35.7	33.5	41.8
M09-878072	37.1	36.1	34.4	35.2	42.5
M09-878087	35.6	33.9	33.9	34.2	40.4
M09-956021	36.1	34.2	35.9	33.2	41.1
M09-957051	36.2	34.9	33.8	34.6	41.4
MN1410R2F5-83	38.0	36.5	36.5	36.3	42.7
MN1410R2F5-121	37.5	34.5	37.5	35.3	42.7
ND12-20566	35.8	33.1	34.9	34.0	41.2
ND12-20600	36.0	34.8	33.1	35.0	41.1
ND12-20611	35.9	33.8	34.5	33.8	41.3
ND12-20915	34.7	35.5	31.7	32.1	39.3
ND12-21077	37.0	35.4	35.2	35.0	42.2
ND12-21092	35.3	33.4	33.5	34.1	40.0
ND12-21211	35.5	34.8	32.8	33.5	41.0
ND12-21283	37.3	36.1	36.5	34.5	42.0
ND12-21292	36.1	33.8	35.2	33.8	41.6
ND12-21575	37.5	36.3	37.1	35.6	41.0
ND12-21622	36.4	35.6	33.9	34.7	41.3
ND12-21733	37.3	36.2	36.0	34.7	42.4
ND12-23230	34.8	34.1	33.7	32.3	39.1
ND12-23562	34.8	32.4	34.2	32.7	39.8
ND12-23760	35.4	33.8	34.4	33.8	39.4
ND12-24175	36.7	36.6	33.8	34.3	42.2

UNIFORM TEST 0 ROUNDUP READY, 2015

OIL (%)

Strain	Mean 4 Tests	Morris MN	Rosemount MN	Casselton ND	Saint Hyacinthe QUE
AG0532 (0)	19.2	18.8	18.4	18.7	20.7
AG0231 (E)	19.3	18.0	18.4	19.4	21.2
AG0832	19.6	19.1	19.0	19.5	20.9
AG1234	19.2	19.2	17.7	19.3	20.7
M09-876012	18.9	18.9	18.5	18.5	19.8
M09-876048	19.4	19.3	18.0	19.6	20.8
M09-878011	19.1	18.2	17.9	19.1	21.2
M09-878072	19.1	18.1	18.8	18.8	20.6
M09-878087	20.2	19.6	19.4	19.5	22.1
M09-956021	19.4	18.3	18.5	19.3	21.4
M09-957051	19.0	18.7	18.0	18.7	20.4
MN1410R2F5-83	18.3	17.3	17.3	18.3	20.2
MN1410R2F5-121	18.6	18.0	17.6	18.7	20.2
ND12-20566	19.5	18.3	18.5	19.9	21.2
ND12-20600	19.8	19.0	19.9	19.3	21.1
ND12-20611	20.1	19.2	20.0	20.0	21.2
ND12-20915	20.5	19.8	19.9	20.4	21.9
ND12-21077	19.1	18.1	19.0	19.0	20.4
ND12-21092	20.8	20.7	20.2	20.0	22.3
ND12-21211	19.5	18.7	19.4	19.1	20.7
ND12-21283	19.1	18.1	18.7	19.0	20.6
ND12-21292	19.5	18.2	19.8	18.9	20.9
ND12-21575	20.3	19.3	19.2	20.2	22.3
ND12-21622	19.9	19.0	19.0	20.1	21.5
ND12-21733	19.1	18.2	18.6	19.0	20.7
ND12-23230	21.3	20.3	20.2	21.1	23.6
ND12-23562	21.3	20.2	20.6	21.2	23.1
ND12-23760	19.7	19.0	18.4	19.7	21.8
ND12-24175	19.0	18.2	17.9	19.3	20.5

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UNIFORM TEST I Roundup-Ready, 2015

Ent.	Strain	Parentage	Seed Source	Previous Testing	Gen. Comp.	Unique Traits
1	AG1733 (I)		Monsanto			
2.	AG1234 (E)		Monsanto			
3.	AG2031		Monsanto	3		
4.	U07-135601R		Graef	6	F4	RR, Dt
5.	M09-876026	MN1701CN x MN1410BC2R2F2-4	Orf	1	F5	
6.	M09-876048	MN1701CN x MN1410BC2R2F2-4	Orf	1	F5	
7.	M09-876062	MN1701CN x MN1410BC2R2F2-4	Orf	1	F5	
8.	M09-877004	MN1410 x MN1410BC2R2F2-3	Orf	1	F5	
9.	M09-956047	MN1410 x MN1410BC2R2F3	Orf		F5	RR2
10.	M09-957021	MN1701CN x MN1410BC2R2F3	Orf		F5	RR2CN
11.	M09-957029	MN1701CN x MN1410BC2R2F3	Orf		F5	RR2CN
12.	M09-957075	MN1701CN x MN1410BC2R2F3	Orf		F5	RR2CN
13.	MN1410R2F5-117	MN1410*3 x R2 From Monsanto R2BC2	Orf	2	F5	

UNIFORM TEST I ROUNDUP READY, 2015

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	IDC Score Lamberton	IDC Score Waseca	Shattering Score Manhattan	SDS Data Fairbury, IL DX Rank
AG1733 (I)	PGTSYDibI	2.3	2.3	2.0	0.8
AG1234 (E)	PGBSYBI	2.5	2.5	2.0	1.4
AG2031	PGTSYDibI	4.8	4.8	4.0	0.0
U07-135601R	PGTIYDibI	4.0	4.0	1.0	17.8
M09-876026	WTBIYGI	4.5	4.5	2.0	0.6
M09-876048	P+WT+GB+TSYGI	2.8	2.8	1.0	1.1
M09-876062	PGTSYYI	4.5	4.5	2.0	7.5
M09-877004	P+WGTSYBfI	3.0	3.0	2.0	33.3
M09-956047	WT+GB+TSYBfI	3.0	3.0	5.0	6.8
M09-957021	P+WT+GB+TSYGI	2.8	2.8	1.0	26.7
M09-957029	P+WT+GB+TSYGI	3.5	3.5	1.0	5.0
M09-957075	P+WGTIYYI	3.0	3.0	1.0	1.7
MN1410R2F5-117	PGTSYDibI	4.0	4.0	2.0	17.5

LSD: 14.0

UNIFORM TEST I ROUNDUP READY, 2015

REGIONAL SUMMARY

No. of Tests Strain	Yield 8 bu/a	Rank 8 No.	Maturity 8 Date	Lodging 8 Score	Plant Height 8 In.	Seed Size 8 g/100	Seed Quality 7 Score	Composition Protein 4 %	 Oil 4 %
AG1733 (I)	65.1	9	9/18	1.1	28	16.4	1.9	34.8	20.1
AG1234 (E)	67.4	4	-6.6	1.1	31	14.9	1.8	35.4	19.5
AG2031	69.9	2	4.1	1.6	32	16.9	1.7	35.6	19.8
U07-135601R	66.0	6	3.0	1.2	29	14.8	2.0	34.9	20.3
M09-876026	65.4	8	0.6	2.1	34	16.9	1.9	35.2	19.9
M09-876048	60.3	13	-6.4	1.5	27	15.7	1.9	35.0	20.3
M09-876062	64.6	10	-3.5	1.5	31	16.0	2.1	36.3	19.3
M09-877004	67.5	3	-2.3	1.7	34	16.7	2.0	36.2	19.6
M09-956047	70.6	1	-1.4	1.5	32	16.5	1.9	35.7	20.3
M09-957021	62.5	12	-2.5	1.6	30	14.6	1.9	35.5	19.8
M09-957029	64.1	11	-2.8	1.5	29	14.4	1.9	35.3	19.5
M09-957075	65.7	7	-1.5	1.6	30	15.3	1.9	36.1	19.6
MN1410R2F5-117	67.1	5	0.1	1.8	34	15.0	1.9	36.1	19.3
Mean	65.1			1.8	34.9	16.2	1.9		
C.V. (%)	25.6			46.6	24.1	9.4	18.6		
L.S.D. (5%)	10.8			0.6	6.0	1.2	0.3		

120.5 Days After Planting

UNIFORM TEST I ROUNDUP READY, 2015

2014-2015 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 14 g/100	Seed Quality 13 Score	Composition Protein 9 %	 Oil 9 %
AG2031	68.9	1	3.9	1.3	32	16.1	1.9	35.3	19.0
U07-135601R	68.8	2	4.0	1.3	32	15.9	2.1	35.6	19.2
M09-876026	66.7	4	1.8	1.9	35	17.2	2.2	35.1	19.0
M09-876048	64.8	7	-2.2	1.5	30	15.8	2.2	34.3	19.6
M09-876062	64.9	6	-1.6	1.5	31	16.1	2.4	35.9	18.7
M09-877004	67.2	3	-0.6	1.6	35	16.4	2.2	35.9	19.0
MN1410R2F5-117	66.6	5	0.6	1.7	35	15.3	2.1	36.0	18.7

119.3 Days After Planting

2013-2015 3-Year Mean

No. of Tests Strain	20	20	17	18	13	17	12	12	12
AG2031	67.3	1	4.3	1.3	32	16.7	1.8	35.2	18.7
U07-135601R	65.5	2	4.1	1.2	30	15.8	1.7	34.3	19.0
MN1410R2F5-117	64.3	3	0.7	1.8	34	15.6	2.0	35.4	18.5

123.1 Days After Planting

UNIFORM TEST I ROUNDUP READY, 2015

YIELD (bu/a)

Strain	Mean 8 Tests	Wanatah IN	West Lafayette IN*	Ingham County MI*	Saginaw County MI	Lamber-ton MN
AG1733 (I)	65.1	38.1	21.7	20.4	62.3	60.8
AG1234 (E)	67.4	32.3	24.8	35.2	71.5	67.0
AG2031	69.9	39.9	27.0	29.5	53.9	64.7
U07-135601R	66.0	34.4	40.9	22.2	68.0	56.5
M09-876026	65.4	34.4	25.0	33.8	61.7	57.8
M09-876048	60.3	25.9	18.7	16.0	51.6	66.7
M09-876062	64.6	32.8	31.3	34.0	62.7	65.2
M09-877004	67.5	33.9	28.1	37.4	67.0	71.3
M09-956047	70.6	28.7	23.9	18.2	73.7	64.2
M09-957021	62.5	31.2	31.5	22.7	69.9	67.0
M09-957029	64.1	31.6	26.1	25.4	63.1	58.4
M09-957075	65.7	30.3	34.6	26.3	64.9	58.8
MN1410R2F5-117	67.1	34.7	31.3	40.6	65.6	60.6
Location Mean		32.8	27.0	26.3	64.9	64.2
C.V. (%)		13.9	23.8	29.4	7.0	11.5
L.S.D. (5%)		5.8	7.1	21.9	12.2	11.8
Row Sp. (In.)		30	30	15	15	30
Rows/Plot		4	4	6	6	4
Reps		3	3	2	2	3

*Data not included in the mean.

UNIFORM TEST I ROUNDUP READY, 2015

YIELD (bu/a)

Strain	Waseca MN	Cotes-field NE	Hooper NE	Worms NE	Saint Hyacinthe QUE
AG1733 (I)	71.8	77.5	80.7	58.5	71.5
AG1234 (E)	62.6	79.6	78.2	74.2	73.9
AG2031	68.1	94.5	84.7	79.5	73.8
U07-135601R	55.2	85.2	79.7	77.9	71.0
M09-876026	57.3	83.4	84.6	73.2	70.6
M09-876048	58.7	76.4	71.1	62.5	69.7
M09-876062	63.3	83.1	71.3	74.8	63.5
M09-877004	55.2	79.1	74.3	87.7	71.4
M09-956047	61.5	82.2	81.4	96.1	77.0
M09-957021	60.8	75.7	78.6	51.3	65.5
M09-957029	64.1	73.2	72.3	81.1	69.0
M09-957075	54.8	81.5	82.7	85.4	67.1
MN1410R2F5-117	60.3	87.3	82.1	83.0	63.3
Location Mean	60.8	81.5	79.7	77.9	70.6
C.V. (%)	13.8	8.3	7.3	10.0	5.5
L.S.D. (5%)	13.7	16.6	14.1	19.0	6.4
Row Sp. (In.)	30	30	30	8	14.2
Rows/Plot	4	4	4	30	4
Reps	3	2	2	4	3

UNIFORM TEST I ROUNDUP READY, 2015

YIELD RANK

Strain	Yield Rank	Wanatah IN	West Lafayette IN	Ingham County MI	Saginaw County MI	Lamber-ton MN
AG1733 (I)	9	2	12	11	10	8
AG1234 (E)	4	8	10	3	2	2
AG2031	2	1	7	6	12	6
U07-135601R	6	4	1	10	4	13
M09-876026	8	4	9	5	11	12
M09-876048	13	13	13	13	13	4
M09-876062	10	7	4	4	9	5
M09-877004	3	6	6	2	5	1
M09-956047	1	12	11	12	1	7
M09-957021	12	10	3	9	3	2
M09-957029	11	9	8	8	8	11
M09-957075	7	11	2	7	7	10
MN1410R2F5-117	5	3	4	1	6	9

MATURITY (date)

Strain	Mean 8 Tests	Wanatah IN	West Lafayette IN	Ingham County MI	Saginaw County MI	Lamber-ton MN
AG1733 (I)	9/18	9/18	9/6	9/20		9/26
AG1234 (E)	-7	-7	-9	-4		-9
AG2031	4	5	3	6		6
U07-135601R	3	3	1	3		5
M09-876026	1	0	-2	-1		1
M09-876048	-6	-6	-7	-7		-10
M09-876062	-4	-4	-4	-7		-3
M09-877004	-2	-1	-7	-5		1
M09-956047	-1	-1	-3	-4		2
M09-957021	-3	-1	-5	-7		-3
M09-957029	-3	-3	-5	-5		-2
M09-957075	-2	-1	-5	-4		-1
MN1410R2F5-117	0	0	0	-1		-1
Date Planted	05/21	5/22	5/26	5/22		5/20
Days to Mature	120.5	119	103	121		129

UNIFORM TEST I ROUNDUP READY, 2015

YIELD RANK

Strain	Waseca MN	Cotes-field NE	Hooper NE	Worms NE	Saint Hyacinthe QUE
AG1733 (I)	1	10	6	12	4
AG1234 (E)	5	8	9	9	2
AG2031	2	1	1	6	3
U07-135601R	11	3	7	7	6
M09-876026	10	4	2	10	7
M09-876048	9	11	13	11	8
M09-876062	4	5	12	8	12
M09-877004	11	9	10	2	5
M09-956047	6	6	5	1	1
M09-957021	7	12	8	13	11
M09-957029	3	13	11	5	9
M09-957075	13	7	3	3	10
MN1410R2F5-117	8	2	4	4	13

MATURITY (date)

Strain	Waseca MN	Cotes-field NE	Hooper NE	Worms NE	Saint Hyacinthe QUE
AG1733 (I)	9/24		9/17	9/13	9/24
AG1234 (E)	-8		-8	-2	-6
AG2031	3		1	0	11
U07-135601R	2		3	4	5
M09-876026	3		-1	2	3
M09-876048	-5		-5	-6	-5
M09-876062	-2		-1	-3	-4
M09-877004	-1		-1	-2	1
M09-956047	-1		-1	0	0
M09-957021	-4		-2	1	1
M09-957029	-2		-3	-1	-1
M09-957075	0		-2	0	1
MN1410R2F5-117	1		1	1	0
Date Planted	5/13		5/30	5/19	5/16
Days to Mature	134		110	117	131

UNIFORM TEST I ROUNDUP READY, 2015

LODGING (score)

Strain	Mean 8 Tests	Wanatah IN	West Lafayette IN	Ingham County MI	Saginaw County MI	Lamber-ton MN
AG1733 (I)	1.1	1.0	1.0	1.0	1.0	1.0
AG1234 (E)	1.1	1.0	1.0	1.0	1.0	1.0
AG2031	1.6	1.5	1.0	1.0	1.0	1.7
U07-135601R	1.2	1.0	1.0	1.0	1.0	1.3
M09-876026	2.1	1.7	1.0	1.0	1.0	2.7
M09-876048	1.5	1.0	1.0	1.0	1.0	2.0
M09-876062	1.5	1.3	1.0	1.0	1.0	2.0
M09-877004	1.7	1.2	1.0	1.0	1.0	2.0
M09-956047	1.5	1.0	1.0	1.0	1.0	2.3
M09-957021	1.6	1.0	1.0	1.0	1.0	2.0
M09-957029	1.5	1.3	1.0	1.0	1.0	2.0
M09-957075	1.6	1.2	1.0	1.0	1.0	2.0
MN1410R2F5-117	1.8	1.0	1.5	1.0	1.0	2.0

PLANT HEIGHT (inches)

Strain	Mean 8 Tests	Wanatah IN	West Lafayette IN	Ingham County MI	Saginaw County MI	Lamber-ton MN
AG1733 (I)	28	20	14	16	33	35
AG1234 (E)	31	23	18	21	34	38
AG2031	32	24	15	22	29	40
U07-135601R	29	16	17	18	35	37
M09-876026	34	26	17	23	31	41
M09-876048	27	18	16	10	29	36
M09-876062	31	22	18	18	35	37
M09-877004	34	25	20	22	33	42
M09-956047	32	24	18	17	34	40
M09-957021	30	23	18	18	29	38
M09-957029	29	20	14	14	25	38
M09-957075	30	22	20	19	29	38
MN1410R2F5-117	34	25	22	20	31	40

UNIFORM TEST I ROUNDUP READY, 2015

LODGING (score)

Strain	Waseca MN	Cotes-field NE	Hooper NE	Worms NE	Saint Hyacinthe QUE
AG1733 (I)	2.0		1.0		1.0
AG1234 (E)	2.0		1.0		1.0
AG2031	2.3		1.3		2.7
U07-135601R	2.0		1.0		1.0
M09-876026	4.0		2.3		3.0
M09-876048	3.0		1.0		1.7
M09-876062	2.7		1.3		2.0
M09-877004	3.0		1.8		2.3
M09-956047	2.7		1.3		1.7
M09-957021	3.0		1.0		2.7
M09-957029	2.3		1.0		2.0
M09-957075	3.0		1.3		2.0
MN1410R2F5-117	3.0		1.8		3.0

PLANT HEIGHT (inches)

Strain	Waseca MN	Cotes-field NE	Hooper NE	Worms NE	Saint Hyacinthe QUE
AG1733 (I)	34		32		37
AG1234 (E)	35		36		41
AG2031	40		38		47
U07-135601R	34		34		40
M09-876026	44		42		45
M09-876048	35		33		38
M09-876062	38		37		40
M09-877004	43		41		43
M09-956047	39		41		43
M09-957021	39		37		41
M09-957029	39		37		42
M09-957075	38		35		41
MN1410R2F5-117	42		43		46

UNIFORM TEST I ROUNDUP READY, 2015

SEED SIZE (g/100)

Strain	Mean 8 Tests	Wanatah IN	West Lafayette IN	Ingham County MI	Saginaw County MI	Lamber-ton MN
AG1733 (I)	16.4	15.6	16.3	15.7		17.3
AG1234 (E)	14.9	13.8	13.3	14.2		15.4
AG2031	16.9	16.2	15.0	15.4		17.8
U07-135601R	14.8	14.0	13.4	12.2		15.7
M09-876026	16.9	15.6	14.6	15.7		17.4
M09-876048	15.7	15.1	13.5	14.4		16.7
M09-876062	16.0	15.5	14.3	15.3		16.8
M09-877004	16.7	15.4	16.1	15.8		17.2
M09-956047	16.5	15.3	15.4	14.7		17.3
M09-957021	14.6	12.8	12.4	13.7		15.7
M09-957029	14.4	14.0	13.9	13.4		14.8
M09-957075	15.3	14.7	14.1	14.6		16.6
MN1410R2F5-117	15.0	13.6	13.4	14.2		16.4

SEED QUALITY (score)

Strain	Mean 7 Tests	Wanatah IN	West Lafayette IN	Ingham County MI	Saginaw County MI	Lamber-ton MN
AG1733 (I)	1.9	1.5	1.5			1.0
AG1234 (E)	1.8	1.0	1.0			2.0
AG2031	1.7	1.0	1.0			2.0
U07-135601R	2.0	1.0	1.0			2.0
M09-876026	1.9	1.0	1.0			2.0
M09-876048	1.9	1.5	1.0			2.0
M09-876062	2.1	1.5	1.5			3.0
M09-877004	2.0	1.0	1.0			2.0
M09-956047	1.9	1.0	1.0			2.0
M09-957021	1.9	1.0	1.0			2.0
M09-957029	1.9	1.0	1.0			2.0
M09-957075	1.9	1.5	1.0			2.0
MN1410R2F5-117	1.9	1.0	1.0			2.0

UNIFORM TEST I ROUNDUP READY, 2015

SEED SIZE (g/100)

Strain	Waseca MN	Cotes-field NE	Hooper NE	Worms NE	Saint Hyacinthe QUE
AG1733 (I)	14.8	18.0	17.0		16.4
AG1234 (E)	14.1	16.0	16.0		16.1
AG2031	15.7	19.0	19.0		17.5
U07-135601R	14.1	17.0	16.0		15.8
M09-876026	16.7	19.0	18.0		18.5
M09-876048	15.4	18.0	16.0		16.6
M09-876062	14.9	17.0	18.0		16.3
M09-877004	15.5	18.0	19.0		16.8
M09-956047	16.2	19.0	18.0		16.5
M09-957021	13.1	16.0	16.0		16.8
M09-957029	13.7	16.0	15.0		14.4
M09-957075	14.6	16.0	16.0		15.4
MN1410R2F5-117	14.4	16.0	16.0		15.7

SEED QUALITY (score)

Strain	Waseca MN	Cotes-field NE	Hooper NE	Worms NE	Saint Hyacinthe QUE
AG1733 (I)	2.0	2.0	2.0		3.3
AG1234 (E)	2.0	2.0	2.0		2.7
AG2031	2.0	2.0	1.0		3.0
U07-135601R	2.0	2.0	2.0		3.7
M09-876026	2.0	2.0	2.0		3.0
M09-876048	2.0	2.0	2.0		3.0
M09-876062	2.0	2.0	2.0		3.0
M09-877004	2.0	2.0	2.0		3.7
M09-956047	2.0	2.0	2.0		3.0
M09-957021	2.0	2.0	2.0		3.0
M09-957029	2.0	2.0	2.0		3.0
M09-957075	2.0	2.0	2.0		3.0
MN1410R2F5-117	2.0	2.0	2.0		3.0

UNIFORM TEST I ROUNDUP READY, 2015

PROTEIN (%)

Strain	Mean 4 Tests	Wanatah IN	West Lafayette IN	Lamber-ton MN	Saint Hyacinthe QUE
AG1733 (I)	34.8	32.4	34.7	33.3	38.9
AG1234 (E)	35.4	32.9	34.2	34.7	39.9
AG2031	35.6	33.7	34.4	35.5	38.9
U07-135601R	34.9	33.4	34.3	34.2	37.8
M09-876026	35.2	33.3	33.3	34.1	40.1
M09-876048	35.0	33.5	34.4	32.6	39.4
M09-876062	36.3	33.7	34.8	35.9	41.0
M09-877004	36.2	34.1	35.1	34.5	40.9
M09-956047	35.7	34.0	35.0	33.9	40.0
M09-957021	35.5	33.3	34.1	34.8	39.8
M09-957029	35.3	33.5	34.2	33.7	39.7
M09-957075	36.1	34.6	34.6	34.8	40.5
MN1410R2F5-117	36.1	33.4	35.0	35.5	40.7

OIL (%)

Strain	Mean 4 Tests	Wanatah IN	West Lafayette IN	Lamber-ton MN	Saint Hyacinthe QUE
AG1733 (I)	20.1	20.6	19.8	18.9	21.1
AG1234 (E)	19.5	19.5	19.3	18.5	20.9
AG2031	19.8	20.0	20.4	17.8	21.2
U07-135601R	20.3	20.2	20.3	19.0	21.7
M09-876026	19.9	20.2	20.4	18.4	20.5
M09-876048	20.3	20.0	19.5	20.6	21.1
M09-876062	19.3	19.7	19.5	18.1	20.0
M09-877004	19.6	19.8	19.6	18.3	20.8
M09-956047	20.3	20.1	19.9	19.3	21.9
M09-957021	19.8	19.7	19.5	19.6	20.6
M09-957029	19.5	19.5	19.4	18.4	20.6
M09-957075	19.6	19.5	19.8	18.8	20.4
MN1410R2F5-117	19.3	19.7	19.5	17.9	20.3

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UNIFORM TEST II Roundup-Ready, 2015

Ent.	Strain	Parentage	Seed Source	Previous Testing	Gen. Comp.	Unique Traits
1	U06-814223R (II)		Graef	5	F5	RR,Dt
2.	AG2031 (E)		Monsanto	3		
3.	AG2535		Monsanto			
4.	NEX2905A0R (L)		Graef	9		Dt
5.	LD12-15064 R1a	LD05-1540 x LD06-30505Ra	Diers		F5	RR1, Rag 1
6.	LD12-15129 R1a	LD05-1540 x LD06-30505Ra	Diers		F5	RR1, Rag 1
7.	LD12-15224 R2a	LD09-17170R2 x LD08-12459a	Diers		F5	RR2, Rag 1+2
8.	LD12-15227 R2a	LD09-17170R2 x LD08-12459a	Diers		F5	RR2, Rag 1+2
9.	LD12-15229 R2a	LD09-17170R2 x LD08-12459a	Diers		F5	RR2, Rag 1+2
10.	LD12-15246 R2a	LD09-17170R2 x LD08-12459a	Diers		F5	RR2, Rag 1+2
11.	LD12-15248 R2a	LD09-17170R2 x LD08-12459a	Diers		F5	RR2, Rag 1+2
12.	M09-877026	MN1410 x MN1410BC2R2F2-3	Orf	1	F5	
13.	M09-956063	MN1410 x MN1410BC2R2F3	Orf		F5	RR2
14.	M09-957052	MN1701CN x MN1410BC2R2F3	Orf		F5	RR2CN
15.	U12-909109R	U07-135601R x U07-135377R	Graef	1	F5	Excellent Rps resistance.
16.	U12-923116R	U07-135601R x U08-932024R	Graef	2	F5	Excellent Rps resistance.

UNIFORM TEST II ROUNDUP READY, 2015

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	IDC Score Lamberton	IDC Score Waseca	IDC Score Westbrook	Shattering Score Manhattan
U06-814223R (II)	WTBIYBrI	4.6	4.6	4.6	1.0
AG2031 (E)	PGTSYDibI	3.8	3.8	3.8	5.0
AG2535	PGTSYDibI	3.8	3.8	3.8	1.0
NEX2905A0R (L)	PGTSYDibI	5.0	5.0	5.0	2.0
LD12-15064 R1a	PGTSYBfI	4.3	4.3	4.3	1.0
LD12-15129 R1a	P+WTBSYBrI	4.4	4.4	4.4	1.0
LD12-15224 R2a	PTBSYBI	3.0	3.0	3.0	5.0
LD12-15227 R2a	PTBSYBI	2.0	2.0	2.0	3.0
LD12-15229 R2a	PTBSYBI	1.1	1.1	1.1	2.0
LD12-15246 R2a	PGTSYDibI	1.8	1.8	1.8	3.0
LD12-15248 R2a	PTBIYBI	3.8	3.8	3.8	5.0
M09-877026	PGTSYDibI	2.8	2.8	2.8	1.0
M09-956063	PGTSYBfI	3.0	3.0	3.0	5.0
M09-957052	P+WT+GB+TSYYI	3.5	3.5	3.5	2.0
U12-909109R	WTBIYBI	4.1	4.1	4.1	2.0
U12-923116R	PGTSYDibI	4.4	4.4	4.4	1.0

UNIFORM TEST II ROUNDUP READY, 2015

REGIONAL SUMMARY

No. of Tests Strain	Yield 11 bu/a	Rank 11 No.	Maturity 10 Date	Lodging 9 Score	Plant Height 10 In.	Seed Size 10 g/100	Seed Quality 9 Score	Composition Protein 7 %	 Oil 7 %
U06-814223R (II)	53.9	16	9/24	1.3	24	14.3	1.8	33.6	20.2
AG2031 (E)	64.7	5	-0.4	1.3	28	17.2	1.7	35.0	19.4
AG2535	66.3	1	-0.2	1.1	29	15.5	1.6	34.2	19.5
NEX2905A0R (L)	64.5	6	5.3	1.3	30	13.6	1.4	33.9	19.4
LD12-15064 R1a	63.2	11	-0.4	1.5	29	16.2	1.6	34.2	19.6
LD12-15129 R1a	65.6	3	-1.9	1.3	28	15.9	1.7	34.5	19.5
LD12-15224 R2a	59.4	14	-3.7	1.2	26	15.2	1.9	34.5	18.8
LD12-15227 R2a	63.9	8	2.4	1.3	28	16.2	1.7	34.2	19.1
LD12-15229 R2a	63.4	9	2.3	1.2	27	15.4	1.9	34.3	18.7
LD12-15246 R2a	65.9	2	2.5	1.3	27	15.3	2.0	34.2	19.2
LD12-15248 R2a	64.0	7	-2.5	1.2	28	16.9	2.0	34.3	19.3
M09-877026	63.4	9	-0.7	1.3	32	16.4	1.8	35.1	19.0
M09-956063	61.6	12	-7.5	1.3	30	17.7	2.1	35.0	19.7
M09-957052	59.3	15	-7.0	1.4	29	16.3	1.6	33.9	19.8
U12-909109R	64.8	4	4.1	1.3	27	15.9	1.8	34.1	19.6
U12-923116R	60.6	13	0.7	1.4	28	14.5	2.0	34.7	19.4
Mean	61.7			1.5	32.6	16.1	1.9		
C.V. (%)	26.7			43.3	20.9	10.5	37.9		
L.S.D. (5%)	9.6			0.4	4.5	1.2	0.7		

125.9 Days After Planting

UNIFORM TEST II ROUNDUP READY, 2015

2014-2015 2-Year Mean

No. of Tests Strain	Yield 19 bu/a	Rank 19 No.	Maturity 18 Date	Lodging 17 Score	Plant Height 16 In.	Seed Size 17 g/100	Seed Quality 15 Score	Composition Protein 13 %	 Oil 13 %
U06-814223R (II)	60.3	6	9/26	1.3	28	14.7	1.6	33.9	19.8
AG0231 (E)	67.0	2	0.5	1.4	32	17.4	1.8	35.5	19.0
NEX2905A0R (L)	66.0	3	3.4	1.5	34	13.5	1.4	34.3	19.0
M09-877026	65.7	4	0.8	1.6	35	16.2	2.0	34.8	18.7
U12-909109R	68.5	1	4.3	1.3	29	15.6	1.8	34.6	19.0
U12-923116R	65.5	5	1.7	1.6	32	14.8	1.9	34.6	19.3

126.0 Days After Planting

2013-2015 3-Year Mean

No. of Tests Strain	29	29	26	26	22	26	21	18	18
U06-814223R (II)	60.6	4	9/24	1.2	28	14.9	1.6	34.1	19.8
AG0231 (E)	66.1	1	-0.2	1.4	32	17.7	1.6	35.4	19.2
NEX2905A0R (L)	65.1	3	4.8	1.4	33	13.6	1.3	34.1	19.2
U12-923116R	65.7	2	1.8	1.6	32	14.8	1.6	34.8	19.2

125.8 Days After Planting

UNIFORM TEST II ROUNDUP READY, 2015

YIELD (bu/a)

Strain	Mean 11 Tests	Dekalb IL	Urbana IL	Wanatah IN	West Lafayette IN
U06-814223R (II)	53.9	58.9	26.3	55.3	37.0
AG2031 (E)	64.7	69.9	33.8	62.0	42.3
AG2535	66.3	78.0	39.4	61.8	51.1
NEX2905A0R (L)	64.5	64.6	47.1	69.2	51.9
LD12-15064 R1a	63.2	59.8	45.4	65.8	39.6
LD12-15129 R1a	65.6	62.1	45.4	68.2	41.6
LD12-15224 R2a	59.4	65.3	33.0	62.0	39.4
LD12-15227 R2a	63.9	69.4	48.1	62.8	47.6
LD12-15229 R2a	63.4	69.6	42.1	68.6	42.4
LD12-15246 R2a	65.9	69.4	38.5	65.7	34.2
LD12-15248 R2a	64.0	68.1	40.4	63.7	46.7
M09-877026	63.4	65.5	44.5	59.7	43.2
M09-956063	61.6	61.4	27.9	55.0	33.3
M09-957052	59.3	57.3	31.9	51.0	42.6
U12-909109R	64.8	67.7	45.4	56.3	51.2
U12-923116R	60.6	68.6	43.8	55.3	43.4
Location Mean		66.6	41.3	62.0	42.5
C.V. (%)		6.4	11.7	11.2	14.9
L.S.D. (5%)		7.4	8.1	8.1	8.2
Row Sp. (In.)		30	30	30	30
Rows/Plot		4	4	4	4
Reps		2	2	3	3

UNIFORM TEST II ROUNDUP READY, 2015

YIELD (bu/a)

Strain	Ingham County MI*	Lenawee County MI	Lamberton MN	Waseca MN	West-brook MN
U06-814223R (II)	15.1	61.1	55.7	56.6	52.0
AG2031 (E)	40.0	74.3	55.1	57.4	61.4
AG2535	34.3	70.9	50.7	50.1	65.9
NEX2905A0R (L)	39.5	73.6	45.1	53.9	58.8
LD12-15064 R1a	45.0	70.2	46.6	62.1	55.5
LD12-15129 R1a	44.5	69.7	58.3	68.0	55.6
LD12-15224 R2a	31.5	58.2	56.1	53.5	59.1
LD12-15227 R2a	38.4	66.3	62.9	51.1	58.2
LD12-15229 R2a	41.9	67.6	60.2	55.3	57.3
LD12-15246 R2a	54.7	70.8	58.9	64.6	65.3
LD12-15248 R2a	45.1	65.3	56.2	55.5	68.7
M09-877026	47.5	76.1	45.0	57.5	60.4
M09-956063	13.3	72.4	55.0	58.8	67.2
M09-957052	37.9	65.9	53.4	44.3	70.3
U12-909109R	38.5	76.3	56.3	46.9	59.7
U12-923116R	44.9	66.7	40.9	41.6	53.7
Location Mean	39.8	70.0	55.4	55.4	59.4
C.V. (%)	27.3	3.4	13.2	11.4	12.6
L.S.D. (5%)	27.4	6.1	11.8	10.5	12.7
Row Sp. (In.)	15	15	30	30	30
Rows/Plot	6	6	4	4	4
Reps	2	2	3	3	3

*Data not included in the mean.

UNIFORM TEST II ROUNDUP READY, 2015

YIELD (bu/a)

Strain	Cotes-field NE	Hooper NE	Worms NE
U06-814223R (II)	66.8	75.9	47.0
AG2031 (E)	90.4	86.6	78.3
AG2535	86.0	92.4	82.8
NEX2905A0R (L)	82.8	79.9	82.8
LD12-15064 R1a	87.1	81.3	81.8
LD12-15129 R1a	90.9	90.0	72.2
LD12-15224 R2a	79.4	76.9	70.8
LD12-15227 R2a	81.5	80.7	74.8
LD12-15229 R2a	81.0	79.8	73.9
LD12-15246 R2a	88.6	83.7	85.6
LD12-15248 R2a	82.9	80.0	76.8
M09-877026	81.9	84.2	79.2
M09-956063	86.1	85.3	75.4
M09-957052	80.5	81.1	73.9
U12-909109R	88.5	86.7	77.6
U12-923116R	87.6	78.9	85.7
Location Mean	84.5	81.2	77.2
C.V. (%)	4.8	4.8	9.9
L.S.D. (5%)	10.0	9.5	18.6
Row Sp. (In.)	30	30	30
Rows/Plot	4	4	4
Reps	2	2	2

UNIFORM TEST II ROUNDUP READY, 2015

YIELD RANK

Strain	Yield Rank	Dekalb IL	Urbana IL	Wanatah IN	West Lafayette IN
U06-814223R (II)	16	15	16	13	8
AG2031 (E)	5	2	12	8	14
AG2535	1	1	10	10	3
NEX2905A0R (L)	6	11	2	1	16
LD12-15064 R1a	11	14	3	4	7
LD12-15129 R1a	3	12	3	3	5
LD12-15224 R2a	14	10	13	8	15
LD12-15227 R2a	8	4	1	7	1
LD12-15229 R2a	9	3	8	2	9
LD12-15246 R2a	2	4	11	5	2
LD12-15248 R2a	7	7	9	6	12
M09-877026	9	9	6	11	13
M09-956063	12	13	15	15	6
M09-957052	15	16	14	16	4
U12-909109R	4	8	3	12	10
U12-923116R	13	6	7	13	11

MATURITY (date)

Strain	Mean 10 Tests	Dekalb IL	Urbana IL	Wanatah IN	West Lafayette IN
U06-814223R (II)	9/24	9/26	9/10	9/23	9/21
AG2031 (E)	-0	-4	-2	1	0
AG2535	-0	0	1	5	0
NEX2905A0R (L)	5	7	11	10	6
LD12-15064 R1a	-0	-2	-1	4	9
LD12-15129 R1a	-2	-2	3	1	0
LD12-15224 R2a	-4	-4	-2	0	1
LD12-15227 R2a	2	6	6	7	1
LD12-15229 R2a	2	8	6	7	0
LD12-15246 R2a	3	5	5	6	-1
LD12-15248 R2a	-3	-3	0	1	0
M09-877026	-1	-2	2	3	1
M09-956063	-7	-6	-7	-5	-6
M09-957052	-7	-9	-5	-5	-6
U12-909109R	4	8	8	7	5
U12-923116R	1	1	1	5	0
Date Planted	5/21	5/22	5/20	5/22	5/26
Days to Mature	125.9	127	113	124	118

UNIFORM TEST II ROUNDUP READY, 2015

YIELD RANK

Strain	Ingham County MI	Lenawee County MI	Lamberton MN	Waseca MN	West-brook MN
U06-814223R (II)	15	15	8	7	16
AG2031 (E)	8	3	9	6	6
AG2535	13	6	12	13	4
NEX2905A0R (L)	9	4	14	10	10
LD12-15064 R1a	4	8	13	3	14
LD12-15129 R1a	6	9	4	1	13
LD12-15224 R2a	14	16	7	11	9
LD12-15227 R2a	11	12	1	12	11
LD12-15229 R2a	7	10	2	9	12
LD12-15246 R2a	1	7	3	2	5
LD12-15248 R2a	3	14	6	8	2
M09-877026	2	2	15	5	7
M09-956063	16	5	10	4	3
M09-957052	12	13	11	15	1
U12-909109R	10	1	5	14	8
U12-923116R	5	11	16	16	15

MATURITY (date)

Strain	Ingham County MI	Lenawee County MI	Lamberton MN	Waseca MN	West-brook MN
U06-814223R (II)	9/24		10/8	10/1	9/20
AG2031 (E)	2		-7	-2	19
AG2535	0		-6	2	0
NEX2905A0R (L)	5		1	4	1
LD12-15064 R1a	1		-10	2	-1
LD12-15129 R1a	1		-11	5	-1
LD12-15224 R2a	1		-8	-4	-11
LD12-15227 R2a	3		-2	4	1
LD12-15229 R2a	4		1	4	-9
LD12-15246 R2a	4		0	4	1
LD12-15248 R2a	1		-7	-5	-1
M09-877026	2		-5	1	-1
M09-956063	-7		-12	-9	-4
M09-957052	-5		-13	-6	-3
U12-909109R	4		1	4	1
U12-923116R	2		2	4	-1
Date Planted	5/22		5/20	5/13	5/19
Days to Mature	125		141	141	124

UNIFORM TEST II ROUNDUP READY, 2015

YIELD RANK

Strain	Cotes-field NE	Hooper NE	Worms NE
U06-814223R (II)	16	16	16
AG2031 (E)	2	4	7
AG2535	8	1	3
NEX2905A0R (L)	10	12	3
LD12-15064 R1a	6	8	5
LD12-15129 R1a	1	2	14
LD12-15224 R2a	15	15	15
LD12-15227 R2a	12	10	11
LD12-15229 R2a	13	13	12
LD12-15246 R2a	3	7	2
LD12-15248 R2a	9	11	9
M09-877026	11	6	6
M09-956063	7	5	10
M09-957052	14	9	12
U12-909109R	4	3	8
U12-923116R	5	14	1

MATURITY (date)

Strain	Cotes-field NE	Hooper NE	Worms NE
U06-814223R (II)		9/26	9/23
AG2031 (E)		-4	-7
AG2535		1	-3
NEX2905A0R (L)		2	1
LD12-15064 R1a		-2	-2
LD12-15129 R1a		-3	-5
LD12-15224 R2a		-4	-6
LD12-15227 R2a		0	0
LD12-15229 R2a		1	1
LD12-15246 R2a		1	-1
LD12-15248 R2a		-5	-6
M09-877026		-3	-4
M09-956063		-10	-9
M09-957052		-10	-8
U12-909109R		0	0
U12-923116R		0	-2
Date Planted		5/30	5/19
Days to Mature		119	127

UNIFORM TEST II ROUNDUP READY, 2015

LODGING (score)

Strain	Mean 9 Tests	Dekalb IL	Urbana IL	Wanatah IN	West Lafayette IN
U06-814223R (II)	1.3	1.0	1.0	1.0	1.0
AG2031 (E)	1.3	1.3	1.0	1.0	1.0
AG2535	1.1	1.0	1.0	1.0	1.0
NEX2905A0R (L)	1.3	1.0	1.0	1.3	1.0
LD12-15064 R1a	1.5	1.3	1.0	1.0	1.0
LD12-15129 R1a	1.3	1.3	1.0	1.2	1.0
LD12-15224 R2a	1.2	1.0	1.0	1.2	1.0
LD12-15227 R2a	1.3	1.3	1.0	1.2	1.0
LD12-15229 R2a	1.2	1.5	1.0	1.3	1.0
LD12-15246 R2a	1.3	1.5	1.0	1.0	1.0
LD12-15248 R2a	1.2	1.5	1.0	1.0	1.0
M09-877026	1.3	1.8	1.0	1.2	1.0
M09-956063	1.3	1.3	1.0	1.0	1.0
M09-957052	1.4	1.5	1.0	1.2	1.0
U12-909109R	1.3	1.3	1.0	1.0	1.0
U12-923116R	1.4	1.5	1.0	1.2	1.2

PLANT HEIGHT (inches)

Strain	Mean 10 Tests	Dekalb IL	Urbana IL	Wanatah IN	West Lafayette IN
U06-814223R (II)	24	23	17	20	16
AG2031 (E)	28	34	22	26	19
AG2535	29	34	25	26	21
NEX2905A0R (L)	30	32	26	28	19
LD12-15064 R1a	29	30	26	27	19
LD12-15129 R1a	28	27	26	25	20
LD12-15224 R2a	26	29	22	23	18
LD12-15227 R2a	28	32	24	29	19
LD12-15229 R2a	27	30	22	27	15
LD12-15246 R2a	27	30	21	26	17
LD12-15248 R2a	28	32	23	26	17
M09-877026	32	36	29	28	23
M09-956063	30	31	23	24	19
M09-957052	29	30	23	24	22
U12-909109R	27	29	25	27	20
U12-923116R	28	30	22	24	18

UNIFORM TEST II ROUNDUP READY, 2015

LODGING (score)

Strain	Ingham County MI	Lenawee County MI	Lamberton MN	Waseca MN	West-brook MN
U06-814223R (II)	1.0	1.0	2.0	2.3	
AG2031 (E)	1.0	1.0	1.7	2.0	
AG2535	1.0	1.0	1.0	2.0	
NEX2905A0R (L)	1.0	1.0	2.0	2.3	
LD12-15064 R1a	1.0	1.0	3.0	2.7	
LD12-15129 R1a	1.0	1.0	1.7	2.7	
LD12-15224 R2a	1.0	1.0	1.7	2.0	
LD12-15227 R2a	1.0	1.0	1.7	2.7	
LD12-15229 R2a	1.0	1.0	1.0	2.3	
LD12-15246 R2a	1.0	1.0	1.3	2.7	
LD12-15248 R2a	1.0	1.0	1.3	2.0	
M09-877026	1.0	1.0	2.0	2.0	
M09-956063	1.0	1.0	2.0	2.3	
M09-957052	1.0	1.0	2.0	3.0	
U12-909109R	1.0	1.0	2.0	2.3	
U12-923116R	1.0	1.0	2.0	2.7	

PLANT HEIGHT (inches)

Strain	Ingham County MI	Lenawee County MI	Lamberton MN	Waseca MN	West-brook MN
U06-814223R (II)	17	24	35	33	19
AG2031 (E)	23	34	39	39	10
AG2535	23	31	39	40	11
NEX2905A0R (L)	25	33	42	42	12
LD12-15064 R1a	25	29	38	42	11
LD12-15129 R1a	24	30	40	42	9
LD12-15224 R2a	23	29	36	34	11
LD12-15227 R2a	26	29	39	38	12
LD12-15229 R2a	24	29	38	38	13
LD12-15246 R2a	26	28	37	38	12
LD12-15248 R2a	24	34	36	40	12
M09-877026	29	36	40	44	13
M09-956063	24	32	38	42	24
M09-957052	22	32	39	39	23
U12-909109R	23	30	39	33	12
U12-923116R	24	29	40	35	25

UNIFORM TEST II ROUNDUP READY, 2015

LODGING (score)

Strain	Cotes-field NE	Hooper NE	Worms NE
U06-814223R (II)		1.0	
AG2031 (E)		1.3	
AG2535		1.0	
NEX2905A0R (L)		1.0	
LD12-15064 R1a		1.5	
LD12-15129 R1a		1.0	
LD12-15224 R2a		1.0	
LD12-15227 R2a		1.0	
LD12-15229 R2a		1.0	
LD12-15246 R2a		1.3	
LD12-15248 R2a		1.0	
M09-877026		1.0	
M09-956063		1.5	
M09-957052		1.0	
U12-909109R		1.0	
U12-923116R		1.0	

PLANT HEIGHT (inches)

Strain	Cotes-field NE	Hooper NE	Worms NE
U06-814223R (II)		31	
AG2031 (E)		37	
AG2535		37	
NEX2905A0R (L)		37	
LD12-15064 R1a		39	
LD12-15129 R1a		40	
LD12-15224 R2a		36	
LD12-15227 R2a		37	
LD12-15229 R2a		37	
LD12-15246 R2a		37	
LD12-15248 R2a		40	
M09-877026		42	
M09-956063		43	
M09-957052		38	
U12-909109R		33	
U12-923116R		35	

UNIFORM TEST II ROUNDUP READY, 2015

SEED SIZE (g/100)

Strain	Mean 10 Tests	Dekalb IL	Urbana IL	Wanatah IN	West Lafayette IN
U06-814223R (II)	14.3	13.9	13.1	13.3	12.5
AG2031 (E)	17.2	18.6	15.4	16.2	16.0
AG2535	15.5	16.0	12.7	13.5	13.7
NEX2905A0R (L)	13.6	14.3	12.1	12.8	11.1
LD12-15064 R1a	16.2	15.7	14.4	14.7	15.3
LD12-15129 R1a	15.9	15.8	14.8	16.0	14.9
LD12-15224 R2a	15.2	15.8	14.1	14.6	13.9
LD12-15227 R2a	16.2	17.2	15.5	14.5	15.1
LD12-15229 R2a	15.4	15.8	13.8	14.6	13.5
LD12-15246 R2a	15.3	16.7	14.3	14.1	14.1
LD12-15248 R2a	16.9	17.2	15.5	15.5	15.5
M09-877026	16.4	17.0	15.7	15.2	15.7
M09-956063	17.7	18.9	16.3	16.4	17.0
M09-957052	16.3	16.4	14.8	15.1	14.9
U12-909109R	15.9	16.3	13.9	14.2	14.6
U12-923116R	14.5	14.2	13.1	13.0	13.8

SEED QUALITY (score)

Strain	Mean 9 Tests	Dekalb IL	Urbana IL	Wanatah IN	West Lafayette IN
U06-814223R (II)	1.8	1.0	2.0	1.0	1.0
AG2031 (E)	1.7	1.0	2.0	1.5	1.0
AG2535	1.6	1.0	1.0	1.0	1.0
NEX2905A0R (L)	1.4	1.0	1.0	1.0	1.0
LD12-15064 R1a	1.6	1.0	2.0	1.0	1.0
LD12-15129 R1a	1.7	1.0	2.0	1.0	1.0
LD12-15224 R2a	1.9	1.0	2.0	1.0	1.0
LD12-15227 R2a	1.7	1.0	1.0	1.0	1.0
LD12-15229 R2a	1.9	1.0	1.0	1.0	1.0
LD12-15246 R2a	2.0	2.0	1.0	1.0	1.0
LD12-15248 R2a	2.0	1.0	2.0	1.5	1.5
M09-877026	1.8	1.0	2.0	1.0	1.0
M09-956063	2.1	1.0	4.0	1.0	1.5
M09-957052	1.6	1.0	2.0	1.0	1.0
U12-909109R	1.8	1.0	2.0	1.0	1.5
U12-923116R	2.0	1.0	2.0	1.0	1.0

UNIFORM TEST II ROUNDUP READY, 2015

SEED SIZE (g/100)

Strain	Ingham County MI	Lenawee County MI	Lamberton MN	Waseca MN	West-brook MN
U06-814223R (II)	12.4		15.0	14.0	14.8
AG2031 (E)	16.1		18.6	16.2	17.0
AG2535	13.9		17.3	16.6	17.6
NEX2905A0R (L)	12.0		14.0	13.8	16.1
LD12-15064 R1a	15.5		16.3	17.3	17.4
LD12-15129 R1a	14.8		16.0	15.1	16.4
LD12-15224 R2a	14.4		17.0	13.8	16.4
LD12-15227 R2a	15.4		17.9	15.4	17.6
LD12-15229 R2a	13.9		17.7	15.0	18.1
LD12-15246 R2a	14.7		16.9	14.4	16.3
LD12-15248 R2a	17.1		18.5	15.9	17.9
M09-877026	15.8		17.2	16.2	16.6
M09-956063	17.4		18.1	16.9	16.9
M09-957052	15.5		17.0	16.2	17.1
U12-909109R	14.5		17.2	16.5	18.0
U12-923116R	12.4		16.4	14.0	18.0

SEED QUALITY (score)

Strain	Ingham County MI	Lenawee County MI	Lamberton MN	Waseca MN	West-brook MN
U06-814223R (II)			2.0	2.0	3.0
AG2031 (E)			2.0	2.0	2.0
AG2535			2.0	2.0	2.0
NEX2905A0R (L)			2.0	2.0	1.0
LD12-15064 R1a			2.0	1.0	2.0
LD12-15129 R1a			3.0	1.0	2.0
LD12-15224 R2a			2.0	2.0	3.0
LD12-15227 R2a			2.0	1.0	3.0
LD12-15229 R2a			2.0	2.0	5.0
LD12-15246 R2a			2.0	2.0	5.0
LD12-15248 R2a			2.0	2.0	4.0
M09-877026			2.0	2.0	3.0
M09-956063			2.0	2.0	3.0
M09-957052			1.0	2.0	2.0
U12-909109R			2.0	2.0	3.0
U12-923116R			2.0	2.0	5.0

UNIFORM TEST II ROUNDUP READY, 2015

SEED SIZE (g/100)

Strain	Cotes-field NE	Hooper NE	Worms NE
U06-814223R (II)	18.0	16.0	
AG2031 (E)	19.0	19.0	
AG2535	17.0	17.0	
NEX2905A0R (L)	15.0	15.0	
LD12-15064 R1a	17.0	18.0	
LD12-15129 R1a	17.0	18.0	
LD12-15224 R2a	15.0	17.0	
LD12-15227 R2a	16.0	17.0	
LD12-15229 R2a	16.0	16.0	
LD12-15246 R2a	15.0	17.0	
LD12-15248 R2a	18.0	18.0	
M09-877026	17.0	18.0	
M09-956063	20.0	19.0	
M09-957052	18.0	18.0	
U12-909109R	17.0	17.0	
U12-923116R	15.0	15.0	

SEED QUALITY (score)

Strain	Cotes-field NE	Hooper NE	Worms NE
U06-814223R (II)	2.0	2.0	
AG2031 (E)	2.0	2.0	
AG2535	2.0	2.0	
NEX2905A0R (L)	2.0	2.0	
LD12-15064 R1a	2.0	2.0	
LD12-15129 R1a	2.0	2.0	
LD12-15224 R2a	3.0	2.0	
LD12-15227 R2a	3.0	2.0	
LD12-15229 R2a	2.0	2.0	
LD12-15246 R2a	2.0	2.0	
LD12-15248 R2a	2.0	2.0	
M09-877026	2.0	2.0	
M09-956063	2.0	2.0	
M09-957052	2.0	2.0	
U12-909109R	2.0	2.0	
U12-923116R	2.0	2.0	

UNIFORM TEST II ROUNDUP READY, 2015

PROTEIN (%)

Strain	Mean 7 Tests	Dekalb IL	Urbana IL	Wanatah IN	West Lafayette IN	Lamber-ton MN	Waseca MN	West-brook MN
U06-814223R (II)	33.6	33.6	32.3	32.7	33.5	34.6	33.4	34.9
AG2031 (E)	35.0	35.2	33.8	33.5	35.0	36.1	35.0	36.7
AG2535	34.2	33.7	32.7	33.4	34.2	35.0	34.3	35.9
NEX2905A0R (L)	33.9	33.3	32.4	33.6	33.1	34.6	34.1	35.9
LD12-15064 R1a	34.2	34.0	32.9	33.4	33.6	34.8	34.7	36.0
LD12-15129 R1a	34.5	34.6	33.2	34.7	34.1	34.5	34.3	36.1
LD12-15224 R2a	34.5	34.7	33.0	33.9	34.3	34.8	34.4	36.7
LD12-15227 R2a	34.2	34.1	33.7	33.3	33.8	35.1	33.6	36.1
LD12-15229 R2a	34.3	34.6	32.2	33.3	34.2	35.4	33.7	36.5
LD12-15246 R2a	34.2	34.3	32.8	33.4	33.9	35.1	33.9	36.1
LD12-15248 R2a	34.3	34.7	32.4	33.7	34.2	35.7	33.5	35.9
M09-877026	35.1	34.7	34.8	33.7	35.7	35.7	34.9	36.2
M09-956063	35.0	34.8	35.0	34.2	35.7	34.4	35.2	35.8
M09-957052	33.9	33.7	33.5	33.0	33.9	34.0	33.5	35.7
U12-909109R	34.1	34.7	32.8	33.1	33.8	34.5	34.3	35.6
U12-923116R	34.7	34.6	33.2	34.0	35.0	35.3	35.0	36.1

OIL (%)

Strain	Mean 7 Tests	Dekalb IL	Urbana IL	Wanatah IN	West Lafayette IN	Lamber-ton MN	Waseca MN	West-brook MN
U06-814223R (II)	20.2	20.1	21.5	20.6	20.9	19.4	19.6	19.1
AG2031 (E)	19.4	19.5	20.4	20.0	20.0	18.7	18.9	18.4
AG2535	19.5	19.6	20.3	19.7	19.7	19.1	19.2	18.6
NEX2905A0R (L)	19.4	19.4	20.4	19.4	19.9	19.3	19.0	18.4
LD12-15064 R1a	19.6	19.6	20.6	20.0	20.4	19.1	19.0	18.3
LD12-15129 R1a	19.5	19.6	20.7	19.7	20.8	19.1	18.8	18.1
LD12-15224 R2a	18.8	19.0	19.8	19.1	19.2	18.5	18.4	17.7
LD12-15227 R2a	19.1	19.0	19.7	19.4	19.8	18.7	18.7	18.3
LD12-15229 R2a	18.7	18.4	19.9	18.9	19.3	18.1	18.4	17.9
LD12-15246 R2a	19.2	19.2	20.4	19.6	19.9	18.7	18.6	18.0
LD12-15248 R2a	19.3	19.3	20.3	19.8	19.6	18.7	19.0	18.3
M09-877026	19.0	19.3	19.6	19.6	19.2	18.8	18.6	18.3
M09-956063	19.7	20.0	20.4	20.2	19.6	19.9	19.3	18.9
M09-957052	19.8	19.9	20.4	20.3	20.0	19.7	19.7	18.8
U12-909109R	19.6	19.3	20.5	20.1	20.3	19.5	19.0	18.5
U12-923116R	19.4	19.4	20.3	19.5	19.9	19.1	18.9	18.5

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UNIFORM TEST III Roundup-Ready, 2015

Ent.	Strain	Parentage	Seed Source	Previous Testing	Gen. Comp.	Unique Traits
1	U03-827101 (III) (SCN)		Graef	7		RR, SCN
2.	AG3334		Monsanto			
3.	AG3832		Monsanto	6		RR, SCN
4.	NEX2905A0R (E)		Graef	8		Dt
5.	LD11-13802R2	Syngenta 03JR313108 x (LD00-3309 x Mon	Diers	1	F4	RR2, SCN
6.	LD11-14102R	(Syngenta 03JR313108 x (LD00-3309 x RR	Diers	2	F5	RR2, SCN
7.	LD12-15156 R1a	LD06-30505Ra x LD04-13265	Diers		F5	RR1, Rag 1
8.	LD12-15505 R1	LD06-7620 x LD06-14187R	Diers		F5	RR1
9.	LD12-15609 R2	LD09-17254R2 x LD04-13265	Diers		F5	RR2
10.	LD12-15753 R2	LD06-7984 x LD09-17254R2	Diers		F5	RR2
11.	SA12-1756RR	S05-11482 x S07-15722RR	Scaboo		F5	

UNIFORM TEST III ROUNDUP READY, 2015

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	Shattering Score Manhattan	SDS Data Fair bury, IL DX Rank	SDS Data Valmeyer, IL DX Rank	Mean DX
U03-827101R (III) (SCN)	WTBIYBI	1.0	8.3	30.6	19.4
AG3334	PGTSYDibI	1.0			
AG3832	PGTSYDibI	1.0	0.0	5.6	2.8
NEX2905A0R (E)	PGTSYDibI	2.0	0.6	2.8	1.7
LD11-13802R2	PTBSYBrI	1.0	0.0	0.3	0.1
LD11-14102R	WTTSYBI	1.0	7.5	15.1	11.3
LD12-15156 R1a	PTBIYBI	1.0	8.3	4.7	6.5
LD12-15505 R1	PTBDYBI	1.0	1.1	13.9	7.5
LD12-15609 R2	PTBIYBI	1.0	5.6	3.6	4.6
LD12-15753 R2	PTTSYBrI	2.0	0.0	5.6	2.8
SA12-1756RR	WTBSYBI	3.0	0.8	20.6	10.7
			LSD: 13.0	17.0	

UNIFORM TEST III ROUNDUP READY, 2015

REGIONAL SUMMARY

No. of Tests Strain	Yield 8 bu/a	Rank 8 No.	Maturity 7 Date	Lodging 7 Score	Plant Height 7 In.	Seed Size 7 g/100	Seed Quality 8 Score	Composition Protein 4 %	 Oil 4 %
U03-827101R (III) (SCN)	59.4	10	9/23	1.2	28	15.1	1.9	35.6	19.3
AG3334	67.0	3	0.3	1.0	30	16.0	1.7	35.9	19.0
AG3832	69.3	1	2.1	1.1	29	16.4	1.9	35.7	19.1
NEX2905A0R (E)	59.6	9	-2.5	1.2	26	13.0	1.8	33.7	20.1
LD11-13802R2	64.1	6	-0.6	2.0	28	14.2	1.9	35.0	20.0
LD11-14102R	67.8	2	0.6	1.0	30	15.1	1.9	35.1	19.8
LD12-15156 R1a	63.7	8	-0.4	1.5	30	15.5	1.8	33.6	20.1
LD12-15505 R1	58.5	11	-1.3	1.3	30	13.4	2.1	35.3	19.6
LD12-15609 R2	64.7	4	1.6	1.2	29	14.8	2.0	34.8	19.8
LD12-15753 R2	64.1	6	-2.1	1.0	28	15.4	1.8	35.7	19.7
SA12-1756RR	64.7	4	0.5	1.6	32	12.5	2.0	35.0	18.6
Mean	63.1			1.3	29.9	14.7	2.4		
C.V. (%)	20.3			42.4	15.7	12.4	32.1		
L.S.D. (5%)	9.5			0.4	3.8	1.1	0.7		

123.9 Days After Planting

2014-2015 2-Year Mean

No. of Tests Strain	Yield 15 bu/a	Rank 15 No.	Maturity 14 Date	Lodging 14 Score	Plant Height 14 In.	Seed Size 14 g/100	Seed Quality 15 Score	Composition Protein 9 %	 Oil 9 %
U03-827101R (III) (SCN)	60.2	4	9/23	1.5	30	16.1	1.9	35.8	19.1
AG3832	68.6	1	3.1	1.3	31	16.9	2.1	35.6	18.8
NEX2905A0R (E)	57.2	5	-0.5	1.4	30	13.3	1.9	33.9	19.9
LD11-13802R2	63.8	3	-0.6	2.1	31	15.0	2.0	35.3	19.8
LD11-14102R	67.7	2	2.0	1.4	31	16.0	2.1	35.2	19.7

124.2 Days After Planting

2013-2015 3-Year Mean

No. of Tests Strain	22	22	22	21	20	23	22	13	13
U03-827101R (III) (SCN)	60.8	2	9/24	1.5	31	16.2	1.9	36.0	19.1
NEX2905A0R (E)	57.4	3	-3.9	1.3	28	13.3	2.0	34.1	20.0
LD11-14102R	69.1	1	3.1	1.3	31	16.0	2.2	35.2	19.7

124.5 Days After Planting

UNIFORM TEST III ROUNDUP READY, 2015

YIELD (bu/a)

Strain	Mean 8 Tests	Urbana IL	Butler-ville IN*	Wanatah IN	West Lafayette IN
U03-827101R (III) (SCN)	59.4	47.9	60.6	65.2	51.3
AG3334	67.0	56.8	68.1	73.9	66.4
AG3832	69.3	71.0	44.3	71.9	58.6
NEX2905A0R (E)	59.6	46.2	43.2	70.8	54.2
LD11-13802R2	64.1	53.5	50.9	67.1	61.2
LD11-14102R	67.8	64.1	46.9	66.4	66.3
LD12-15156 R1a	63.7	60.5	47.8	62.5	56.8
LD12-15505 R1	58.5	50.8	47.8	60.5	51.3
LD12-15609 R2	64.7	64.7	53.5	66.5	59.9
LD12-15753 R2	64.1	59.7	59.7	70.2	61.2
SA12-1756RR	64.7	66.4	55.4	66.8	58.5
Location Mean		59.7	50.9	66.8	58.6
C.V. (%)		6.3	16.5	8.3	12.5
L.S.D. (5%)		6.7	6.4	8.3	11.0
Row Sp. (in.)		30	30	30	30
Rows/Plot		4	4	4	4
Reps		2	3	3	3

*Data not included in the mean.

UNIFORM TEST III ROUNDUP READY, 2015

YIELD (bu/a)

Strain	Portageville Clay MO	Portageville Loam MO	Clay Center NE	Phillips NE	Wymore NE
U03-827101R (III) (SCN)	43.9	58.6	73.3	76.6	58.1
AG3334	60.4	65.7	76.7	76.1	59.9
AG3832	59.1	67.4	77.4	87.9	61.0
NEX2905A0R (E)	43.6	53.3	66.5	89.3	52.8
LD11-13802R2	48.1	60.2	73.3	95.2	54.1
LD11-14102R	46.7	70.8	76.3	86.0	65.9
LD12-15156 R1a	51.2	61.6	70.6	88.0	58.5
LD12-15505 R1	41.9	56.9	73.2	81.8	51.5
LD12-15609 R2	50.5	71.2	69.6	72.4	63.0
LD12-15753 R2	53.5	67.1	68.8	77.4	55.2
SA12-1756RR	53.5	67.6	69.5	83.1	52.2
Location Mean	50.5	65.7	73.2	83.1	58.1
C.V. (%)	10.2	5.0	7.5	6.9	8.4
L.S.D. (5%)	10.5	6.6	13.5	14.2	12.0
Row Sp. (in.)	30	30	30	30	30
Rows/Plot	4	4	4	4	4
Reps	3	3	2	2	2

UNIFORM TEST III ROUNDUP READY, 2015

YIELD RANK

Strain	Yield Rank	Urbana IL	Butler-ville IN	Wanatah IN	West Lafayette IN
U03-827101R (III) (SCN)	10	10	2	9	10
AG3334	3	7	1	1	1
AG3832	1	1	10	2	6
NEX2905A0R (E)	9	11	11	3	9
LD11-13802R2	6	8	6	5	3
LD11-14102R	2	4	9	8	2
LD12-15156 R1a	8	5	7	10	8
LD12-15505 R1	11	9	7	11	10
LD12-15609 R2	4	3	5	7	5
LD12-15753 R2	6	6	3	4	3
SA12-1756RR	4	2	4	6	7

MATURITY (date)

Strain	Mean 7 Tests	Urbana IL	Butler-ville IN	Wanatah IN	West Lafayette IN
U03-827101R (III) (SCN)	9/23	9/26	9/11	10/4	10/1
AG3334	0	-1	4	3	0
AG3832	2	4	1	6	3
NEX2905A0R (E)	-3	-8	2	-1	-4
LD11-13802R2	-1	-3	-1	9	-4
LD11-14102R	1	2	-1	4	1
LD12-15156 R1a	-0	-1	4	3	-3
LD12-15505 R1	-1	-5	2	3	-3
LD12-15609 R2	2	-1	3	8	0
LD12-15753 R2	-2	-7	-2	3	-3
SA12-1756RR	1	4	2	-3	1
Date Planted	5/22	5/20	5/7	5/22	5/26
Days to Mature	123.9	129	127	135	128

UNIFORM TEST III ROUNDUP READY, 2015

YIELD RANK

Strain	Portageville Clay MO	Portageville Loam MO	Clay Center NE	Phillips NE	Wymore NE
U03-827101R (III) (SCN)	9	9	4	9	6
AG3334	1	6	2	10	4
AG3832	2	4	1	4	3
NEX2905A0R (E)	10	11	11	2	9
LD11-13802R2	7	8	4	1	8
LD11-14102R	8	2	3	5	1
LD12-15156 R1a	5	7	7	3	5
LD12-15505 R1	11	10	6	7	11
LD12-15609 R2	6	1	8	11	2
LD12-15753 R2	3	5	10	8	7
SA12-1756RR	3	3	9	6	10

MATURITY (date)

Strain	Portageville Clay MO	Portageville Loam MO	Clay Center NE	Phillips NE	Wymore NE
U03-827101R (III) (SCN)		9/8	9/27		9/29
AG3334		-6	2		0
AG3832		1	1		1
NEX2905A0R (E)		-8	2		-3
LD11-13802R2		-5	2		-3
LD11-14102R		0	0		-1
LD12-15156 R1a		-5	1		-2
LD12-15505 R1		-5	2		-4
LD12-15609 R2		1	1		1
LD12-15753 R2		-5	0		-3
SA12-1756RR		1	-1		0
Date Planted		5/4	6/9		6/10
Days to Mature		127	110		111

UNIFORM TEST III ROUNDUP READY, 2015

LODGING (score)

Strain	Mean 7 Tests	Urbana IL	Butler-ville IN	Wanatah IN	West Lafayette IN
U03-827101R (III) (SCN)	1.2	1.0	1.2	1.2	1.0
AG3334	1.0	1.0	1.2	1.2	1.0
AG3832	1.1	1.0	1.0	1.3	1.0
NEX2905A0R (E)	1.2	1.0	1.2	1.2	1.0
LD11-13802R2	2.0	1.0	1.0	7.3	1.0
LD11-14102R	1.0	1.0	1.0	1.3	1.0
LD12-15156 R1a	1.5	1.0	1.2	1.7	1.0
LD12-15505 R1	1.3	1.0	1.2	1.2	1.0
LD12-15609 R2	1.2	1.0	1.3	1.5	1.0
LD12-15753 R2	1.0	1.0	1.0	1.2	1.0
SA12-1756RR	1.6	1.0	1.0	1.0	1.0

PLANT HEIGHT (inches)

Strain	Mean 7 Tests	Urbana IL	Butler-ville IN	Wanatah IN	West Lafayette IN
U03-827101R (III) (SCN)	28	29	24	28	21
AG3334	30	30	27	34	25
AG3832	29	30	23	35	24
NEX2905A0R (E)	26	26	28	33	20
LD11-13802R2	28	29	24	31	25
LD11-14102R	30	30	26	32	27
LD12-15156 R1a	30	30	28	33	24
LD12-15505 R1	30	31	25	32	26
LD12-15609 R2	29	31	28	33	24
LD12-15753 R2	28	30	22	35	22
SA12-1756RR	32	38	27	29	28

UNIFORM TEST III ROUNDUP READY, 2015

LODGING (score)

Strain	Portageville Clay MO	Portageville Loam MO	Clay Center NE	Phillips NE	Wymore NE
U03-827101R (III) (SCN)	1.0	1.3			1.5
AG3334	1.0	1.0			1.0
AG3832	1.0	1.3			1.0
NEX2905A0R (E)	1.0	1.0			2.0
LD11-13802R2	1.7	1.3			1.0
LD11-14102R	1.0	1.0			1.0
LD12-15156 R1a	1.7	2.0			2.0
LD12-15505 R1	1.0	2.3			1.5
LD12-15609 R2	1.0	1.3			1.0
LD12-15753 R2	1.0	1.0			1.0
SA12-1756RR	2.0	3.0			2.5

PLANT HEIGHT (inches)

Strain	Portageville Clay MO	Portageville Loam MO	Clay Center NE	Phillips NE	Wymore NE
U03-827101R (III) (SCN)	27	29			35
AG3334	28	31			38
AG3832	26	30			36
NEX2905A0R (E)	20	21			35
LD11-13802R2	25	30			33
LD11-14102R	25	31			36
LD12-15156 R1a	27	30			39
LD12-15505 R1	26	31			36
LD12-15609 R2	26	27			37
LD12-15753 R2	26	29			34
SA12-1756RR	32	33			40

UNIFORM TEST III ROUNDUP READY, 2015

SEED SIZE (g/100)

Strain	Mean 7 Tests	Urbana IL	Butler-ville IN	Wanatah IN	West Lafayette IN
U03-827101R (III) (SCN)	15.1	15.6	13.7		14.3
AG3334	16.0	17.6	15.2		16.1
AG3832	16.4	18.1	14.4		16.0
NEX2905A0R (E)	13.0	11.8	13.8		11.4
LD11-13802R2	14.2	14.1	14.6		13.1
LD11-14102R	15.1	17.0	13.5		13.5
LD12-15156 R1a	15.5	16.8	15.2		14.5
LD12-15505 R1	13.4	13.3	16.1		12.8
LD12-15609 R2	14.8	15.5	13.6		14.3
LD12-15753 R2	15.4	17.4	13.9		14.5
SA12-1756RR	12.5	12.8	14.1		10.8

SEED QUALITY (score)

Strain	Mean 8 Tests	Urbana IL	Butler-ville IN	Wanatah IN	West Lafayette IN
U03-827101R (III) (SCN)	1.9	2.0	1.0	1.0	1.0
AG3334	1.7	1.0	1.0	1.0	1.0
AG3832	1.9	2.0	1.0	1.0	1.0
NEX2905A0R (E)	1.8	1.0	1.0	1.0	1.0
LD11-13802R2	1.9	2.0	1.0	1.0	1.0
LD11-14102R	1.9	2.0	1.0	1.0	1.0
LD12-15156 R1a	1.8	1.0	1.0	1.0	1.5
LD12-15505 R1	2.1	3.0	1.0	1.0	1.5
LD12-15609 R2	2.0	2.0	1.5	1.0	1.5
LD12-15753 R2	1.8	2.0	1.5	1.0	1.0
SA12-1756RR	2.0	2.0	1.5	1.0	1.5

UNIFORM TEST III ROUNDUP READY, 2015

SEED SIZE (g/100)

Strain	Portageville Clay MO	Portageville Loam MO	Clay Center NE	Phillips NE	Wymore NE
U03-827101R (III) (SCN)	16.1	12.7	17.0	16.0	
AG3334	15.7	14.6	16.0	17.0	
AG3832	17.6	15.5	17.0	16.0	
NEX2905A0R (E)	13.2	11.5	15.0	14.0	
LD11-13802R2	14.1	12.4	16.0	15.0	
LD11-14102R	15.6	14.2	16.0	16.0	
LD12-15156 R1a	15.5	13.6	17.0	16.0	
LD12-15505 R1	13.4	11.2	14.0	13.0	
LD12-15609 R2	15.8	12.3	16.0	16.0	
LD12-15753 R2	16.2	13.8	16.0	16.0	
SA12-1756RR	12.3	11.7	13.0	13.0	

SEED QUALITY (score)

Strain	Portageville Clay MO	Portageville Loam MO	Clay Center NE	Phillips NE	Wymore NE
U03-827101R (III) (SCN)	2.7	3.3	2.0	2.0	
AG3334	2.3	3.0	2.0	2.0	
AG3832	3.0	3.3	2.0	2.0	
NEX2905A0R (E)	3.0	3.0	2.0	2.0	
LD11-13802R2	3.0	3.0	2.0	2.0	
LD11-14102R	3.0	3.0	2.0	2.0	
LD12-15156 R1a	3.0	3.0	2.0	2.0	
LD12-15505 R1	2.7	3.3	2.0	2.0	
LD12-15609 R2	2.7	3.3	2.0	2.0	
LD12-15753 R2	3.0	2.7	2.0	1.0	
SA12-1756RR	2.7	3.0	2.0	2.0	

UNIFORM TEST III ROUNDUP READY, 2015

PROTEIN (%)

Strain	Mean 4 Tests	Urbana IL	Butler-ville IN	West Lafayette IN	Portageville Clay MO
U03-827101 (III) (SCN)	35.6	36.1	35.0	35.3	35.9
AG3334	35.9	36.4	35.8	35.7	35.6
AG3832	35.7	36.2	35.5	35.0	36.2
NEX2905A0R (E)	33.7	32.4	35.3	33.5	33.5
LD11-13802R2	35.0	34.9	35.2	33.5	36.2
LD11-14102R	35.1	35.7	35.5	33.7	35.5
LD12-15156 R1a	33.6	33.6	34.6	32.6	33.6
LD12-15505 R1	35.3	35.9	34.9	35.1	35.3
LD12-15609 R2	34.8	34.5	35.7	34.1	35.0
LD12-15753 R2	35.7	35.8	35.4	35.3	36.4
SA12-1756RR	35.0	36.2	34.7	34.6	34.6

OIL (%)

Strain	Mean 4 Tests	Urbana IL	Butler-ville IN	West Lafayette IN	Portageville Clay MO
U03-827101 (III) (SCN)	19.3	19.1	19.1	19.1	19.7
AG3334	19.0	18.7	18.9	19.0	19.4
AG3832	19.1	18.6	19.4	19.2	19.1
NEX2905A0R (E)	20.1	20.4	19.5	19.7	20.7
LD11-13802R2	20.0	20.1	19.3	20.4	20.2
LD11-14102R	19.8	19.6	19.1	20.3	20.4
LD12-15156 R1a	20.1	19.8	19.7	20.0	20.7
LD12-15505 R1	19.6	19.1	19.7	19.6	20.1
LD12-15609 R2	19.8	19.5	19.4	19.8	20.3
LD12-15753 R2	19.7	20.0	18.7	20.0	20.0
SA12-1756RR	18.6	17.5	19.6	18.4	19.1

UNIFORM TEST IV Roundup-Ready, 2015

Ent.	Strain	Parentage	Seed Source	Previous Testing	Gen. Comp.	Unique Traits
1	AG4033 (IV)		Monsanto			
2.	AG3832		Monsanto	3		RR, SCN
3.	AG4232		Monsanto	2		RR, SCN
4.	LD11-13948R	LD02-5124W x (LD00-3309 x MonsantoRR2)	Diers	2	F5	RR2, SCN
5.	S11-10348RR	S04-20912RR x S08-095	Scaboo		F5	
6.	S13-14661	S08-17361 x S08-9727RR	Shannon		F5	RR1, Diversity
7.	SA11-9478RR	S06-10572RR x S08-115	Scaboo	1	F5	RR1

UNIFORM TEST IV ROUNDUP READY, 2015

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	Shattering Score Manhattan	SDS Data Valmeyer, IL DX Rank
AG4033 (IV)	PGTSYDibI	1.0	
AG3832	PGTSYDibI	1.0	14.4
AG4232	PTBSYBI	1.0	
LD11-13948R	PTBSYBI	1.0	14.4
S11-10348RR	PGTIYBfI	1.0	22.2
S13-14661	WTBSYBrI	2.0	16.9
SA11-9478RR	WTTSYlbrI	1.0	13.9

LSD: 16.0

UNIFORM TEST IV ROUNDUP READY, 2015

REGIONAL SUMMARY

No. of Tests Strain	Yield 5 bu/a	Rank 5 No.	Maturity 5 Date	Lodging 5 Score	Plant Height 5 In.	Seed Size 5 g/100	Seed Quality 5 Score	Composition Protein 4 %	 Oil 4 %
AG4033 (IV)	62.6	5	10/1	1.1	27	14.5	2.0	36.0	18.6
AG3832	62.9	4	-0.6	1.0	27	16.5	2.0	35.6	18.9
AG4232	66.1	2	7.6	1.5	31	13.7	2.0	34.8	18.8
LD11-13948R	64.0	3	2.0	1.3	30	15.8	2.0	36.2	19.4
S11-10348RR	62.6	5	0.8	1.6	31	14.5	2.0	35.5	18.8
S13-14661	60.2	7	5.6	1.4	29	14.3	1.9	35.5	19.1
SA11-9478RR	66.6	1	4.2	1.9	32	12.8	1.8	35.1	18.8
Mean	66.5			1.7	32.3	14.9	2.7		
C.V. (%)	14.2			43.4	10.4	9.4	18.9		
L.S.D. (5%)	9.7			0.6	2.9	1.2	0.5		

133.8 Days After Planting

2014-2015 2-Year Mean

No. of Tests Strain	Yield 12 bu/a	Rank 12 No.	Maturity 12 Date	Lodging 12 Score	Plant Height 12 In.	Seed Size 12 g/100	Seed Quality 12 Score	Composition Protein 10 %	 Oil 10 %
AG3832	59.6	4	-1.6	1.3	29	16.8	2.1	35.5	18.8
AG4232	62.6	2	6.4	1.8	34	14.0	2.1	34.7	18.7
LD11-13948R	62.4	3	1.0	1.6	33	16.8	2.0	36.2	19.2
SA11-9478RR	63.4	1	3.2	2.1	36	13.4	1.8	35.0	18.8

132.9 Days After Planting

UNIFORM TEST IV ROUNDUP READY, 2015

YIELD (bu/a)

Strain	Mean 5 Tests	Urbana IL	Butler-ville IN	West Lafayette IN	Portageville Clay MO	Portageville Loam MO
AG4033 (IV)	62.6	59.9	53.6	59.3	65.7	74.7
AG3832	62.9	68.8	58.9	59.3	58.6	69.0
AG4232	66.1	56.4	70.9	51.0	65.3	86.7
LD11-13948R	64.0	58.5	68.5	59.4	61.3	72.6
S11-10348RR	62.6	61.2	57.6	58.6	60.4	75.2
S13-14661	60.2	52.9	56.9	57.4	59.7	73.8
SA11-9478RR	66.6	56.3	72.4	61.2	64.3	78.9
Location Mean		58.5	58.9	59.3	61.3	74.7
C.V. (%)		8.6	11.9	12.3	6.1	4.9
L.S.D. (5%)		9.9	8.6	8.7	8.3	8.2
Row Sp. (In.)		30	30	30	30	30
Rows/Plot		4	4	4	4	4
Reps		2	3	3	3	3

UNIFORM TEST IV ROUNDUP READY, 2015

YIELD RANK

Strain	Yield Rank	Urbana IL	Butler-ville IN	West Lafayette IN	Portageville Clay MO	Portageville Loam MO
AG4033 (IV)	5	3	7	3	1	4
AG3832	4	1	4	3	7	7
AG4232	2	5	2	7	2	1
LD11-13948R	3	4	3	2	4	6
S11-10348RR	5	2	5	5	5	3
S13-14661	7	7	6	6	6	5
SA11-9478RR	1	6	1	1	3	2

MATURITY (date)

Strain	Mean 5 Tests	Urbana IL	Butler-ville IN	West Lafayette IN	Portageville Clay MO	Portageville Loam MO
AG4033 (IV)	10/1	10/1	9/17	10/4	10/2	10/14
AG3832	-1	1	0	0	-1	-3
AG4232	8	7	8	7	8	8
LD11-13948R	2	2	4	1	2	1
S11-10348RR	1	2	4	1	-1	-2
S13-14661	6	7	7	5	5	4
SA11-9478RR	4	3	7	4	3	4
Date Planted	5/20	5/20	5/7	5/26	6/16	5/4
Days to Mature	133.8	134	133	131	108	163

UNIFORM TEST IV ROUNDUP READY, 2015

LODGING (score)

Strain	Mean 5 Tests	Urbana IL	Butler-ville IN	West Lafayette IN	Portageville Clay MO	Portageville Loam MO
AG4033 (IV)	1.1	1.0	1.2	1.0	1.3	1.0
AG3832	1.0	1.0	1.0	1.0	1.0	1.0
AG4232	1.5	1.0	1.3	1.0	2.0	2.0
LD11-13948R	1.3	1.0	1.3	1.0	2.0	1.3
S11-10348RR	1.6	1.0	1.2	1.0	2.3	2.3
S13-14661	1.4	1.0	1.2	1.0	2.0	2.0
SA11-9478RR	1.9	1.0	1.3	1.0	3.0	3.0

PLANT HEIGHT (inches)

Strain	Mean 5 Tests	Urbana IL	Butler-ville IN	West Lafayette IN	Portageville Clay MO	Portageville Loam MO
AG4033 (IV)	27	32	25	22	29	30
AG3832	27	30	26	23	26	31
AG4232	31	35	28	22	33	35
LD11-13948R	30	34	29	26	28	35
S11-10348RR	31	35	29	25	32	35
S13-14661	29	34	24	21	31	34
SA11-9478RR	32	35	30	28	33	35

UNIFORM TEST IV ROUNDUP READY, 2015

SEED SIZE (g/100)

Strain	Mean 5 Tests	Urbana IL	Butler-ville IN	West Lafayette IN	Portageville Clay MO	Portageville Loam MO
AG4033 (IV)	14.5	14.9	13.9	14.2	16.0	13.4
AG3832	16.5	17.9	15.2	16.3	17.3	15.6
AG4232	13.7	14.2	12.3	13.5	14.3	14.2
LD11-13948R	15.8	17.2	14.8	15.3	17.5	14.0
S11-10348RR	14.5	15.6	14.8	13.4	15.3	13.6
S13-14661	14.3	16.2	13.3	13.2	14.5	14.4
SA11-9478RR	12.8	13.3	11.8	11.4	14.1	13.4

SEED QUALITY (score)

Strain	Mean 5 Tests	Urbana IL	Butler-ville IN	West Lafayette IN	Portageville Clay MO	Portageville Loam MO
AG4033 (IV)	2.0	2.0	1.0	1.5	3.0	2.7
AG3832	2.0	2.0	1.0	1.0	3.0	3.0
AG4232	2.0	2.0	1.0	1.5	2.3	3.0
LD11-13948R	2.0	2.0	1.0	1.0	3.0	3.0
S11-10348RR	2.0	2.0	1.0	1.0	3.0	3.0
S13-14661	1.9	3.0	1.0	1.0	2.3	2.0
SA11-9478RR	1.8	1.0	1.0	1.0	3.0	3.0

UNIFORM TEST IV ROUNDUP READY, 2015

PROTEIN (%)

Strain	Mean 4 Tests	Urbana IL	Butler-ville IN	West Lafayette IN	Portageville Clay MO
AG4033 (IV)	36.0	36.7	35.5	35.1	36.8
AG3832	35.6	36.4	35.5	34.7	35.6
AG4232	34.8	36.1	34.0	34.5	34.6
LD11-13948R	36.2	36.9	35.8	35.0	37.0
S11-10348RR	35.5	36.4	35.9	34.7	35.2
S13-14661	35.5	37.2	35.7	34.9	34.3
SA11-9478RR	35.1	36.7	35.5	34.4	33.8

OIL (%)

Strain	Mean 4 Tests	Urbana IL	Butler-ville IN	West Lafayette IN	Portageville Clay MO
AG4033 (IV)	18.6	18.2	18.7	18.8	18.6
AG3832	18.9	18.5	18.9	19.2	19.1
AG4232	18.8	18.2	18.8	18.8	19.3
LD11-13948R	19.4	19.1	19.4	19.4	19.5
S11-10348RR	18.8	18.1	18.8	19.0	19.3
S13-14661	19.1	18.7	18.7	19.1	20.0
SA11-9478RR	18.8	18.1	18.4	18.7	19.8