THE UNIFORM SOYBEAN TESTS

NORTHERN REGION

2013

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

2013

USDA-ARS
Crop Production and Pest Control Research Unit
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Annual reports are available online at
https://ag.purdue.edu/btny/Extension/Pages/ExtPubs-old.aspx

2013 UNIFORM SOYBEAN TESTS NORTHERN STATES

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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 Statements or data in the report, therefore, should not be published unless those concerned have obtained permission previously.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.

Northern Region UT – POLICY ON EVALUATION AND RELEASE OF STRAINS

Qualifications for inclusion in the Uniform Tests.

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

Use of Uniform Test entries in soybean breeding and research.

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

Release of Uniform Test entries.

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

STRAIN DESIGNATIONS

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

A	Iowa A.E.S. (A=W. Fehr, AR=S. Cianzio)
Ar	Arizona A.E.S.
Au	Alabama A. E. S.
B	California
C	Purdue (Indiana) A.R.P. (C=J.R. Wilcox, CL=A. LeRoy)
CM	Canada Dept. of Agriculture, Morden, Manitoba
D	Mississippi A.E.S.
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, LS=M. Schmidt)
La	Louisiana A.E.S.
LS	Southern Illinois University
M	Minnesota A.E.S.
Md	Maryland A.E.S.
Me	Maine A.E.S.
N	North Carolina A.E.S.
ND	North Dakota A.E.S.
OAC	University of Guelph, Guelph, Ontario
OK	Oklahoma Agricultural Experiment Station
ORC	Ridgetown, Ontario
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

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	-7 to +5		MN0095 (L)
0	Sheyenne	-6 to +2	MN0095 (E)	Surge (L)
I	MN1410	-4 to +4	Sheyenne (0)	IA1022 (SCN)
II	IA2102	-3 to +5	IA1022 (I)	IA3024 (L)
III	IA3023	-6 to +2	IA3024	IA4004 (L)
IV	LD06-7620	-4 to +7	IA4004 (III)	LD00-2817P (L)
0RR	AG0532		AG0231 (E)	AG1230
IRR	AG1631		AG1230 (E)	U07-135601R
IIRR	U06-814223		AG2031 (E)	NEX2905A0R (L)
IIIRR	U03-827101 (SCN)		NEX2905A0R (E)	AG3803 (L)

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% linolenic 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.

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 8 abbreviated as underlined below.

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

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

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, (F. solani f.sp. glycines)
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.

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 Chlororis scores (IDC): Scores are the values on the average of 2 observations taken mid July, and early August. Data was collected from Danvers, Minnesota. Planting dates May 2013.

Iowa State Iron Chlororis scores are values on the average of 4 observations. Data was collective from Humboldt, Iowa. Planting date July 2, 2013.

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 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 IN 2013

Variety	Experimental designation	Uniform Test evaluations
IA2109	A10-556015	2013 UTII

Variety	Release date	Releasing states or Provinces	Foundation seed production
IA2109	Nov. 2013	Iowa	2014

2013 Soybean Cyst Nematode Evaluations

1250 eggs per plant inoculum

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

Ratings:	FI 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)

Indicator	6 reps Mean	FI	*retest Mean*	*retest FI*
Lee	205			
Essex	181			
PI548402	0	0		
PI88788	1	0		
PI90763	0	0		
PI437654	0	0		
PI209332	1	0		
PI89772	0	0		
PI548316	6	3		
PI438489B	16	8		
Pickett	0	0		

*=small root

HG Type 2.5.7 (Race1)

Indicator	6 reps Mean	FI	*retest Mean*	*retest FI*
Lee	171			
Essex	152			
PI548402	1	0		
PI88788	87	51	*no retest done*	
PI90763	0	0		
PI437654	0	0		
PI209332	59	34		
PI89772	0	0		
PI548316	116	68		
PI438489B	1	1		
Pickett	2	1		

******=rep data too variable to rate

		HG Type 0 (Race 3)			HG Type 2.5.7 (Race1)			
Entry	**Line**	**Mean**	**FI**	**Rating**	**Mean**	**FI**	**Rating**	**Test**
1	MN0071 (00)	115	56	LR	129	76	NR	UT00
2	Cavalier	108	53	LR	124	73	NR	UT00
4	MN0095 (0)	161	79	NR	101	59	LR	UT00 UT0, PT0
18	ND10-2993	17	8	HR	100	58	LR	UT00
1	MN1410 (I)	149	73	NR	123	72	NR	UT0, PT0, UTI, PTI
2	Sheyenne (0)	131	64	NR	130	76	NR	UT0, PT0, UTI, PTI
3	Surge	144	70	NR	119	70	NR	UT0, PT0
5	MN0606CN	4	2	HR	94	55	LR	UT0, PT0
6	M05-363022	5	2	HR	96	56	LR	UT0
7	M06-289001	17	8	HR	78	46	LR	UT0
1	IA2102	9	4	HR	107	63	NR	UTI, PTI, UTII, PTII
2	IA1022 (SCN)	8	4	HR	101	59	LR	UTI, PTI, UTII, PTII
4	LD02- 4485	6	3	HR	92	54	LR	UTII
16	U11-610107	140	69	NR	79	46	LR	PTIB
17	U11-903002	169	83	NR	103	60	NR	PTIB
18	U11-907098	96	47	LR	125	73	NR	PTIB
19	U11-911074	187	92	NR	110	64	NR	PTIB

	HG Type 0 (Race 3)				HG Type 2.5.7 (Race1)			
Entry	**Line**	**Mean**	**FI**	**Rating**	**Mean**	**FI**	**Rating**	**Test**
20	U11-911079	4	2	HR	130	76	NR	PTIB
21	U11-913028	134	65	NR	94	55	LR	PTIB
22	U11-913102	118	57	LR	89	52	LR	PTIB
23	U11-915054	182	89	NR	91	53	LR	PTIB
24	U11-917032	4	2	HR	82	48	LR	PTIB
25	U11-918019	157	77	NR	96	56	LR	PTIB
26	U11-918052	134	65	NR	94	55	LR	PTIB
30	U11-905076	109	53	LR	100	59	LR	PTIB
1	IA2102	9	4	HR	107	63	NR	UTII, PTII
4	LD02- 4485	6	3	HR	92	54	LR	UTII
8	LD08-12435a	55	27	**	86	50	LR	UTII
16	LD09-16058	9	5	HR	103	60	NR	UTII
17	LD09-30015	7	3	HR	89	52	LR	UTII
24	U09-316113	95	47	LR	103	60	NR	UTII
22	LD10-5213a	4	2	HR	107	63	NR	PTIIA
23	LD10-5330a	7	3	HR	90	52	LR	PTIIA
24	LD10-5587a	7	3	HR	102	59	LR	PTIIA
25	LD10-30036	7	3	HR	117	68	NR	PTIIA
12	U11-610109	132	64	NR	130	76	NR	PTIIB
13	U11-610122	131	64	NR	136	80	NR	PTIIB
14	U11-611112	10	5	HR	108	63	NR	PTIIB
15	U11-614119	190	93	NR	100	58	LR	PTIIB
16	U11-615155	170	83	NR	114	67	NR	PTIIB
17	U11-616107	40	20	R	105	62	NR	PTIIB
18	U11-619102	128	63	NR	94	55	LR	PTIIB
19	U11-619104	152	74	NR	103	60	NR	PTIIB
20	U11-620101	133	65	NR	102	59	LR	PTIIB
21	U11-622089	14	7	HR	136	79	NR	PTIIB
22	U11-910094	151	74	NR	121	71	NR	PTIIB
23	U11-919011	110	54	LR	88	52	LR	PTIIB
24	U11-920016	123	60	NR	95	56	LR	PTIIB
25	U11-920017	130	64	NR	117	68	NR	PTIIB
1	IA3023	116	57	LR	87	51	LR	UTIII, PTIII
2	IA3024	146	71	NR	94	55	LR	UTII, PTII, UTIII, PTIII,
3	IA3048	3	1	HR	93	54	LR	UTIII, PTIII
6	LD08-1592	7	3	HR	98	57	LR	UTIII
7	LD08-8622	7	4	HR	118	69	NR	UTIII
8	LD08-RST5-10	18	9	HR	92	54	LR	UTIII
11	U10-430052	5	3	HR	109	64	NR	UTIII
5	LD10-776	9	5	HR	105	62	NR	PTIIIB
6	LD10- 2477	11	5	HR	106	62	NR	PTIIIB
7	LD10- 9110	8	4	HR	109	64	NR	PTIIIB
8	LD10- 9168	10	5	HR	99	58	LR	PTIIIB
9	LD10- 9200	11	5	HR	82	48	LR	PTIIIB

		HG Type 0 (Race 3)			HG Type 2.5.7 (Race1)			
Entry	Line	Mean	FI	Rating	Mean	FI	Rating	Test
10	LD10-10150	11	6	HR	100	59	LR	PTIIIB
11	LD10-10213	18	9	HR	97	57	LR	PTIIIB
12	LD10-10226	6	3	HR	106	62	NR	PTIIIB
13	LD10-11740	9	4	HR	91	53	LR	PTIIIB
14	LD10-30004	12	6	HR	108	63	NR	PTIIIB
15	LD10-30019	14	7	HR	99	58	LR	PTIIIB
16	U11-605110	116	57	NR	102	60	NR	PTIIIB
17	U11-615157	147	72	NR	112	65	NR	PTIIIB
18	U11-616086	114	55	LR	103	60	NR	PTIIIB
19	U11-616111	125	61	NR	109	64	NR	PTIIIB
20	U11-621085	130	63	NR	113	66	NR	PTIIIB
21	U11-622148	199	97	NR	106	62	NR	PTIIIB
22	U11-623105	178	87	NR	144	84	NR	PTIIIB
23	U11-628132	112	55	LR	87	51	LR	PTIIIB
24	U11-629113	104	51	LR	85	50	LR	PTIIIB
27	U11-649117	118	58	LR	96	56	LR	PTIIIB
1	LD06-7620	13	6	HR	89	52	LR	UTIV
2	IA4005	129	63	NR	112	65	NR	UTIII, UTIV
3	LD00- 2817P	0	0	HR	7	4	HR	UTIV
10	K11-1778	25	12	R	90	53	LR	UTIV
12	LD10-9423	5	2	HR	92	54	LR	UTIV
13	LD10-9483	8	4	HR	101	59	LR	UTIV
30	SA10-11227	121	59	LR	53	31	MR	UTIV
1	AG1631	13	6	HR	103	60	NR	UTIRR
2	AG1230	18	9	HR	118	69	NR	UT0RR, UTIRR
3	U07-135601R	146	71	NR	124	73	NR	UTIRR
1	U06-814223R (II)	44	21	R	100	59	LR	UTIIRR
2	AG2031 (E)	8	4	HR	86	50	LR	UTIRR, UTIIRR
3	AG2606	19	9	HR	101	59	LR	UTIIRR
5	U07-135601R	149	73	NR	110	64	NR	UTIIRR
6	U07-135636R	135	66	NR	111	65	NR	UTIIRR
7	U07-236940R	171	84	NR	115	67	NR	UTIIRR
8	U11-607166R	135	66	NR	116	68	NR	UTIIRR
9	U11-607174R	144	70	NR	101	59	LR	UTIIRR
10	U11-609165R	138	67	NR	112	66	NR	UTIIRR
11	U11-924119R	123	60	NR	116	68	NR	UTIIRR
12	U11-926111R	142	69	NR	129	75	NR	UTIIRR
13	U11-931121R	144	70	NR	115	67	NR	UTIIRR
1	U03-827101 (SCN)	21	10	R	106	62	NR	UTIIIRR
2	NEX2905A0R (E)	126	61	NR	108	63	NR	UTIIRR, UTIIIRR
3	AG3504	16	8	HR	113	66	NR	UTIIIRR
4	AG3803	6	3	HR	114	67	NR	UTIIIRR,PTIVRR

	HG Type 0 (Race 3)				HG Type 2.5.7 (Race1)			
Entry	**Line**	**Mean**	**FI**	**Rating**	**Mean**	**FI**	**Rating**	**Test**
5	LD09-17123R2	16	8	HR	120	70	NR	UTIIIRR
6	LD09-17213R2	5	2	HR	105	61	NR	UTIIIRR
7	LD09-17220R2	4	2	HR	93	55	LR	UTIIIRR
8	LD11-13814R	14	7	HR	95	56	LR	UTIIIRR
9	LD11-14102R	7	3	HR	100	58	LR	UTIIIRR
10	LD11-14160R	16	8	HR	99	58	LR	UTIIIRR
11	LD11-14283R	2	1	HR	98	57	LR	UTIIIRR
12	LD11-14287R	10	5	HR	98	58	LR	UTIIIRR
13	LD11-14335R	5	3	HR	89	52	LR	UTIIIRR
14	LD11-14362R	5	3	HR	100	58	LR	UTIIIRR
1	AG4005	15	7	HR	98	57	LR	PTIVRR
3.	AG4232	2	1	HR	113	66	NR	PTIVRR
4.	LD11-13342Ra	11	5	HR	111	65	NR	PTIVRR
5.	LD11-13834R	6	3	HR	108	63	NR	PTIVRR
6.	LD11-13948R	6	3	HR	110	64	NR	PTIVRR
7.	S10-6090RR	16	8	HR	114	67	NR	PTIVRR
8.	S11-9938	21	10	R	111	65	NR	PTIVRR
9.	S11-10082	3	1	HR	121	71	NR	PTIVRR
10.	S11-10163	8	4	HR	110	64	NR	PTIVRR

2013 Soybean Phytophthora Rps Gene Evaluation - Indiana

2013 Phytophthora Evaluations-Ohio

			Isolate of *P. sojae* (pathotype of isolate)					Partial Resistance			
Test	**Entry #**	**Strain**	**R1**	**R4**	**R7**	**R17**	**R25**	**R25**	**R25**	**C2S1**	**C2S1**
			(7)	(1a,1c,5,7)	(1a,2,3a,3c,4,5,6,7)	(1b,1d,2,3,4,5,6,7,8)	(1a,1b,1c,1k,7)	(1a,1b,1c,1k,7)			
UT00	1.	MN0071 (00)	0/10	3/11	.	.	10/10	12\12	2.3	.	2.5
UT00	2.	Cavalier	2/11	0/12	.	.	0/11	1\12	.	15\15	2.8
UT00	3.	MN0095 (0)	0/10	11/11	.	.	11/11	11\11	5.0	.	
UT00	4.	M06-320039	7/12	7/9	.	.	10/12	14\14	3.3	.	
UT00	5.	M06-338016	0/10	6/9	.	.	12/12	12\12	2.2	.	2.0
UT00	6.	M07-260009	1/12	9/11	.	.	12/12	13\13	5.3	.	
UT00	7.	M07-260028	11/11	10/11	.	.	11/11	13\13	5.5	.	
UT00	8.	M07-396100	9/9	8/8	.	.	9/9	11\11	5.2	.	
UT00	9.	ND09-4592	0/10	9/12	.	.	11/12	13\13	5.3	.	
UT00	10.	ND09-5604	0/11	5/12	.	.	3/12	5\11	.	13\13	2.7
UT00	11.	ND09-5706	1/11	7/10	.	.	10/12	13\13	4.7	.	
UT00	12.	ND10-2763	0/9	1/10	.	.	0/9	2\9	.	10\10	2.3
UT00	13.	ND10-2769	0/8	7/10	.	.	10/11	10\10	.	.	2.7
UT00	14.	ND10-2993	9/10	6/9	.	.	7/9	5\5	5.3	.	
UT00	15.	ND10-3401	0/7	0/11	.	.	1/9	1\9	.	8\8	3.3
UT00	16.	ND10-3417	3/10	0/11	.	.	3/14	5\12	.	15\15	2.3
UT00	17.	ND10-3419	2/10	0/11	.	.	0/10	1\9	.	14\14	3.0
UT00	18.	ND10-3427	10/12	0/12	.	.	0/12	5\12	.	12\12	3.7
UT00	19.	ND10-3446	4/12	0/12	.	.	0/12	0\9	.	14\14	2.7
UT00	20.	ND10-3449	0/12	10/12	.	.	11/11	.	.	.	3.5
UT00	21.	ND10-3473	4/11	0/11	.	.	4/12	0\13	.	13\13	2.0
UT00	22.	ND10-3495	3/12	0/12	.	.	3/12	0/10	.	14\14	2.7
UT00	23.	ND10-4423	11/11	9/9	.	.	11/11	.	.	.	.
UT00	24.	ND10-4839	0/10	0/12	.	.	0/11	0\12	.	13\13	2.3
UT00	25.	ND10-4865	2/12	0/11	.	.	2/11	.	.	.	3.0
UT00	26.	OAC 11-13C	0/12	0/12	.	.	9/11	15\15	3.8	.	.
										.	.
UT0	1.	Sheyenne (0)	0/11	6/12	.	.	12/12	9\9	3.8	.	.
UT0	2.	MN1410 (I)	7/10	9/12	.	.	10/12	9\9	4.5	.	.
UT0	3.	Surge (L)	0/10	8/12	.	.	10/11	10\10	4.2	.	.
UT0	4.	MN0095 (E)	0/12	8/10	.	.	10/11	13\13	6.2	.	.
UT0	5.	MN0606CN (SCN)	9/11	4/10	.	.	10/10	10\10	4.8	.	.
UT0	6.	M05-363022	12/12	6/12	.	.	12/12	12\12	5.2	.	.
UT0	7.	M06-289001	10/10	12/12	.	.	9/11	12\12	4.7	.	.
UT0	8.	M06-380029	5/10	1/8	.	.	9/11	9\10	5.3	.	.
UT0	9.	M06-381085	9/9	10/11	.	.	11/12	14\14	5.5	.	.
UT0	10.	ND09-4027	0/11	1/10	.	.	2/8	0\11	.	12\12	2
UT0	11.	OAC 10-20C	2/11	0/12	.	.	3/12	.	.	.	.
UT0	12.	OAC 10-24C	11/11	4/12	.	.	10/11	15\15	5.5	.	.
UT0	13.	SD06-415	0/10	11/12	.	.	10/10	12\12	5.3	.	.
UT0	14.	SD06-418	0/11	9/11	.	.	9/10	12\12	6.5	.	.
UT0	15.	SD07CV-539	0/10	7/9	.	.	10/12	12\12	5.7	.	.
UT0	16.	SD08CV-0015	11/11	9/11	.	.	12/12	14\14	5.8	.	.
UT0	17.	SD08CV-0018	10/11	8/12	.	.	8/10	15\15	5.8	.	.
UT0	18.	SD09CV-0012	0/12	8/11	.	.	9/10	12\12	5.8	.	.
UT0	19.	SD09CV-0133	0/10	8/11	.	.	8/9	9\9	6.7	.	.

2013 Soybean Phytophthora Rps Gene Evaluation - Indiana

2013 Phytophthora Evaluations-Ohio

Test	Controls	R1	R4	R7	R17	R25
		(7)	(1a,1c,5,7)	(1a,2,3a,3c,4,5,6,7)	(1b,1d,2,3,4,5,6,7,8)	(1a,1b,1c,1k,7)
UT00	None	10/11	9/10	.	.	12/12
&	1a (Harosoy)	0/7	8/11	.	.	7/9
UT0	1a (Union)	2/12	2/14	.	.	6/10
	1b	2/11	5/11	.	.	10/11
	1c	0/10	11/12	.	.	9/10
	1d	10/11	0/11	.	.	5/11
	1k	0/10	7/12	.	.	10/11
	2	7/9	1/12	.	.	3/12
	3a	0/9	0/11	.	.	0/8
	3b	0/8	7/12	.	.	0/9
	3c	9/11	0/11	.	.	2/7
	4	8/12	0/12	.	.	0/8
	5	0/8	0/12	.	.	0/10
	6	5/11	2/12	.	.	0/9
	7	10/10	7/14	.	.	4/11
	8	5/8	0/14	.	.	1/7

								Partial Resistance		
Test	**Entry #**	**Strain**	**R1**	**R4**	**R7**	**R17**	**R25**	**R25**	**R25**	**C2S1**	**C2S1**
			(7)	(1a,1c,5,7)	(1a,2,3a,3c,4,5,6,7)	(1b,1d,2,3,4,5,6,7,8)	(1a,1b,1c,1k,7)	(1a,1b,1c,1k,7)			
PT0	1.	Sheyenne (0)	0/6	.	.	0/11	8/10	11\11	5.7	.	.
PT0	2.	MN1410 (I)	9/11	.	.	7/12	9/9	11\11	6.0	.	.
PT0	3.	Surge (L)	0/10	.	.	0/10	11/12	13\13	7.3	.	.
PT0	4.	MN0095 (E)	0/10	.	.	0/10	8/9	11\11	7.0	.	.
PT0	5.	M07-267006	0/10	.	.	1/11	0/11	0\13	.	14\14	3.0
PT0	6.	M07-278126	0/9	.	.	0/11	11/11	11\13	3.3	.	.
PT0	7.	M07-340035	0/9	.	.	1/10	8/10	11\11	4.8	.	.
PT0	8.	M07-352123	0/10	.	.	0/11	10/10	.	.	.	.
PT0	9.	M07-355016	0/8	.	.	0/11	12/12	14\14	6.3	.	.
PT0	10.	M07-396047	12/12	.	.	9/9	7/8	12\12	5.3	.	.
PT0	11.	M07-396099	8/8	.	.	11/11	9/9	15\15	4.8	.	.
PT0	12.	M08-144017	0/12	.	.	0/9	9/10	12\12	6.0	.	.
PT0	13.	M08-154093	0/12	.	.	0/11	11/11	11\12	5.3	.	.
PT0	14.	ND09-5798	0/9	.	.	0/12	1/11	1\12	.	14\14	2.7
PT0	15.	ND10-2762	2/10	.	.	1/11	6/10	0\7	.	9\9	2.3
PT0	16.	ND10-2933	0/11	.	.	0/11	9/9	8\8	6.0	.	.
PT0	17.	ND10-3067	0/8	.	.	0/11	9/9	9\10	5.8	.	.
PT0	18.	ND10-3315	0/10	.	.	0/12	9/9	12\12	5.2	.	.
PT0	19.	ND10-3318	0/10	.	.	0/11	11/11	5\6	6.0	.	.
PT0	20.	ND10-3330	0/8	.	.	0/9	7/9	9\9	6.2	.	.
PT0	21.	ND10-3413	4/11	.	.	11/12	3/12	0\11	.	15\15	3.0
PT0	22.	ND10-3434	5/10	.	.	9/10	0/10	4\11	.	15\15	2.0
PT0	23.	ND10-3459	1/10	.	.	10/10	0/10	1\10	.	15\15	2.0
PT0	24.	ND10-4485	0/10	.	.	0/9	7/9	9\9	6.5	.	.
PT0	25.	ND10-4518	0/10	.	.	0/11	6/10	11\11	7.0	.	.
PT0	26.	OAC 11-25C	4/7	.	.	4/12	12/12	11\12	5.0	.	.
PT0	27.	OAC 11-34C	10/11	.	.	11/12	11/12	13\13	5.7	.	.
PT0	28.	OAC 11-43C	0/12	.	.	2/11	4/11	5\14	.	3\14	.
PT0	29.	SD10CV-0004	0/9	.	.	0/10	5/9	10\10	4.5	.	.
PT0	30.	SD10CV-0066	0/7	.	.	0/11	8/9	7\7	6.2	.	.
PT0	31.	SD10CV-0096	0/9	.	.	0/12	6/7	6\7	7.2	.	.
PT0	32.	SD10CV-0129	0/8	.	.	0/9	9/9	6\7	5.5	.	.
PT0	33.	SD10CV-0140	0/11	.	.	0/12	5/9	7\13	2.3	10\10	4.7
PT0	34.	SD10CV-0152	0/7	.	14/14	0/12	6/9	13\13	7.0	.	.
PT0	35.	SD10CV-0156	0/8	.	12/12	0/12	8/8	6\6	5.5	.	.

2013 Soybean Phytophthora Rps Gene Evaluation - Indiana

2013 Phytophthora Evaluations-Ohio

Test	Controls	R1	R4	R7	R17	R25
		(7)	(1a,1c,5,7)	(1a,2,3a,3c,4,5,6,7)	(1b,1d,2,3,4,5,6,7,8)	(1a,1b,1c,1k,7)
PT0	None	10/11	.	20/24	11/12	12/12
	1a (Harosoy)	0/7	.	12/22	3/12	7/9
	1a (Union)	2/12	.	18/21	0/13	6/10
	1b	2/11	.	0/21	10/11	10/11
	1c	0/10	.	1/18	0/12	9/10
	1d	10/11	.	8/20	9/11	5/11
	1k	0/10	.	0/18	0/12	10/11
	2	7/9	.	20/21	11/11	3/12
	3a	0/9	.	16/17	9/9	0/8
	3b	0/8	.	1/22	11/11	0/9
	3c	9/11	.	18/24	8/11	2/7
	4	8/12	.	15/19	12/12	0/8
	5	0/8	.	16/16	12/12	0/10
	6	5/11	.	19/22	12/12	0/9
	7	10/10	.	12/22	8/12	4/11
	8	5/8	.	0/16	8/12	1/7

								Partial Resistance		
Test	**Entry #**	**Strain**	**R1**	**R4**	**R7**	**R17**	**R25**	**R25**	**C2S1**	**C2S1**
			(7)	(1a,1c,5,7)	(1a,2,3a,3c,4,5,6,7)	(1b,1d,2,3,4,5,6,7,8)	(1a,1b,1c,1k,7)	(1a,1b,1c,1k,7)		
UTI	1.	MN1410 (I)	7/12	.	.	.	11/11	14\14	3.5	.	.
UTI	2.	IA1022 (SCN)	10/12	.	.	.	7/9	11\11	3.0	.	.
UTI	3.	Sheyenne (0)	0/11	.	.	.	11/11	12\12	4.2	.	.
UTI	4.	A10-456040	10/10	.	.	.	8/8	14\14	4.7	.	.
UTI	5.	M06-337011	0/9	.	.	.	10/10	11\11	5.8	.	.
UTI	6.	SD08CV-1043	0/10	.	.	.	9/10	10\11	5.7	.	.
UTI	7.	SD09CV-1040	0/11	.	.	.	9/9	13\13	4.8	.	.
UTI	8.	U09-105007	1/12	.	.	.	0/11	2\13	.	14\14	2
UTI	9.	U09-118017	3/10	.	.	.	10/10	14\14	3.5	.	.
UTI	10.	U09-210051	2/7	.	.	.	6/7	11\11	4.5	.	.
									.		
UTII	1.	IA 2102 (II)	5/10	.	.	.	8/8	8\8	2.0	.	.
UTII	2.	IA1022 (SCN)	3/12	.	.	.	8/9	14\14	2.7	.	.
UTII	3.	IA3024	1/9	.	.	.	5/9	10\10	5.7	.	.
UTII	4.	LD02-4485 (SCN)	3/11	.	.	.	11/11	13\13	4.2	.	.
UTII	5.	A10-555001	6/11	.	.	.	7/7	10\10	5.7	.	.
UTII	6.	A10-556015	9/11	.	.	.	11/11	13\13	8.5	.	.
UTII	7.	A10-653019	4/8	.	.	.	6/10	12\12	7.0	.	.
UTII	8.	AR10-206075	4/9	.	.	.	10/10	13\13	5.7	.	.
UTII	9.	AR11-114002	0/11	.	.	.	9/10	11\11	1.8	.	1.7
UTII	10.	AR11-114057	0/10	.	.	.	8/8	13\13	3.2	.	.
UTII	11.	AR11-214001	1/9	.	.	.	11/11	13\13	4.5	.	.
UTII	12.	AR11-214022	0/9	.	.	.	2/10	12\12	2.7	.	2.7
UTII	13.	E10265LL	1/12	.	.	.	7/11	15\15	3.5	.	.
UTII	14.	HM09-W084	0/11	.	.	.	11/12	15\15	2.2	.	.
UTII	15.	LD08-12435a	4/8	.	.	.	10/11	11\11	4.2	.	3.0
UTII	16.	LD09-16058	6/11	.	.	.	10/10	15\15	3.3	.	.
UTII	17.	LD09-30015	5/11	.	.	.	10/11	14\14	3.0	.	.
UTII	18.	U09-133005	4/5	.	.	.	6/8	9\9	4.2	.	.
UTII	19.	U09-133021	6/12	.	.	.	8/10	10\10	3.5	.	2.3
UTII	20.	U09-202083	1/5	.	.	.	1/6	7\12	.	11\11	3.3
UTII	21.	U09-211049	3/8	.	.	.	4/9	10\11	6.0	.	.
UTII	22.	U09-311114	3/8	.	.	.	10/11	13\13	6.2	.	.
UTII	23.	U09-312115	1/11	.	.	.	10/11	14\14	5.7	.	.
UTII	24.	U09-316113	0/8	.	.	.	6/8	12\12	4.3	.	.
UTII	25.	U09-317120	1/9	.	.	.	12/12	14\14	4.5	.	.

2013 Soybean Phytophthora Rps Gene Evaluation - Indiana

2013 Phytophthora Evaluations-Ohio

Test	Controls	R1	R4	R7	R17	R25
		(7)	(1a,1c,5,7)	(1a,2,3a,3c,4,5,6,7)	(1b,1d,2,3,4,5,6,7,8)	(1a,1b,1c,1k,7)
UTI	None	12/12	.	.	.	10/11
&	1a (Harosoy)	3/11	.	.	.	8/10
UTII	1a (Union)	2/10	.	.	.	10/11
	1b	2/9	.	.	.	10/10
	1c	0/10	.	.	.	10/10
	1d	8/12	.	.	.	8/10
	1k	0/11	.	.	.	10/10
	2	0/11	.	.	.	1/10
	3a	0/10	.	.	.	0/9
	3b	1/10	.	.	.	0/6
	3c	5/11	.	.	.	1/9
	4	0/11	.	.	.	0/11
	5	1/12	.	.	.	4/11
	6	1/10	.	.	.	0/9
	7	10/11	.	.	.	6/8
	8	0/12	.	.	.	1/7

								Partial Resistance		
Test	**Entry #**	**Strain**	**R1**	**R4**	**R7**	**R17**	**R25**	**R25**	**R25**	**C2S1**	**C2S1**
			(7)	(1a,1c,5,7)	(1a,2,3a,3c,4,5,6,7)	(1b,1d,2,3,4,5,6,7,8)	(1a,1b,1c,1k,7)	(1a,1b,1c,1k,7)			
PTI A	1.	MN1410 (I)	9/10	12/12	.	9/12	12/12	14\14	4.0	.	.
PTI A	2.	IA1022 (SCN)	6/11	7/9	.	11/12	11/11	13\13	3.8	.	.
PTI A	3.	Sheyenne (0)	0/9	9/9	.	0/12	11/11	9\9	4.7	.	.
PTI A	4.	AR12-128008	0/11	12/12	.	0/12	9/9	13\14	3.5	.	.
PTI A	5.	AR12-128013	0/10	9/10	.	1/10	9/10	12\12	4.0	.	.
PTI A	6.	AR12-128023	8/8	11/11	.	12/12	11/11	13\13	5.3	.	.
PTI A	7.	AR12-128024	8/12	8/9	.	12/12	9/9	10\10	3.7	.	.
PTI A	8.	AR12-128045	3/11	10/10	.	1/10	10/10	12\12	4.8	.	.
PTI A	9.	AR12-128047	0/9	8/10	.	2/12	9/9	13\13	4.0	.	.
PTI A	10.	AR12-128061	0/11	10/10	.	0/11	8/8	13\13	4.7	.	.
PTI A	11.	AR12-128065	0/10	10/10	.	0/12	12/12	11\11	5.3	.	.
PTI A	12.	AR12-128076	9/10	10/10	.	12/12	8/8	13\13	5.7	.	.
PTI A	13.	AR12-128091	4/11	12/12	.	5/12	8/9	10\10	4.2	.	.
PTI A	14.	AR12-128102	4/12	9/9	.	8/11	11/11	12\12	4.2	.	.
PTI A	15.	AR12-228007	1/12	11/11	.	8/12	12/12	13\13	3.8	.	.
PTI A	16.	AR12-228022	0/9	11/11	.	6/11	11/11	12\12	4.3	.	.
PTI A	17.	AR12-228068	9/9	12/12	.	12/12	8/8	12\12	4.7	.	.
PTI A	18.	M07-266078	7/9	9/12	.	3/9	5/9	10\10	4.3	.	.
PTI A	19.	M07-276085	0/10	9/10	.	0/12	12/12	13\13	4.0	.	.
PTI A	20.	M07-278122	0/11	1/12	.	1/12	4/12	4\15	.	.	.
PTI A	21.	M07-352133	5/11	10/10	.	6/12	12/12	15\15	3.7	.	.
PTI A	22.	M07-354108	0/10	8/9	.	0/12	10/11	12\12	1.5	.	.
PTI A	23.	M07-392055	6/9	5/11	.	5/9	11/11	8\8	5.2	.	.
PTI A	24.	M07-396118	3/11	11/11	.	7/11	10/10	9\9	5.0	.	.
PTI A	25.	M07-404023	0/9	10/10	.	0/11	11/11	12\12	5.3	.	.
PTI A	26.	M08-144031	0/9	11/11	.	1/11	6/6	13\13	5.2	.	.
PTI A	27.	M08-144103	0/10	10/10	.	0/11	10/10	13\13	5.8	.	.
PTI A	28.	M08-144119	0/12	12/12	.	0/11	9/9	13\13	5.3	.	.
PTI A	29.	M08-154007	6/9	9/9	.	9/10	8/8	13\13	4.8	.	.
PTI B	1.	MN1410 (I)	5/12	11/11	.	11/12	7/8	12\12	4.3	.	.
PTI B	2.	IA1022 (SCN)	9/11	0/10	.	9/11	11/11	12\12	3.5	.	.
PTI B	3.	Sheyenne (0)	0/11	9/12	.	0/12	11/11	11\11	4.7	.	.
PTI B	4.	OAC 11-37C	0/12	0/11	.	0/11	0/10	0\11	.	14\14	5
PTI B	5.	OAC 11-46C	0/12	4/11	.	2/12	4/10	5\9	1.0	6\13	.
PTI B	6.	OAC 11-51C	0/9	0/9	.	7/12	0/12	3\11	.	14\14	.

PTI B	7.	SD09CV-1515	0/11	12/12	.	0/12	10/10	8\8	3.8	.	.
PTI B	8.	SD09CV-2038	5/7	11/11	.	10/11	10/10	13\13	4.8	.	.
PTI B	9.	SD09CV-2096	0/10	7/8	.	1/12	9/9	8\8	2.5	.	.
PTI B	10.	SD10CV-1156	0/9	9/9	.	1/12	9/10	8\8	4.2	.	.
PTI B	11.	SD10CV-1181	0/10	11/12	.	0/12	11/11	10\10	5.7	.	.
PTI B	12.	SD10CV-1218	0/11	7/9	.	0/10	7/7	13\13	3.2	.	.
PTI B	13.	SD10CV-1225	5/9	9/9	.	3/11	11/11	8\8	3.8	.	.
PTI B	14.	SD10CV-1235	0/8	10/12	.	0/10	6/6	11\11	4.3	.	.
PTI B	15.	SDFA07-771	0/8	11/12	.	0/12	9/9	8\8	3.2	.	.
PTI B	16.	U11-610107	3/12	10/12	.	8/9	12/12	10\10	3.3	.	.
PTI B	17.	U11-903002	3/10	9/10	.	5/11	9/9	11\11	4.8	.	.
PTI B	18.	U11-907098	4/9	11/11	.	8/10	8/10	12\12	5.0	.	.
PTI B	19.	U11-911074	0/10	11/11	.	0/12	9/10	14\14	2.2	.	3.333333333
PTI B	20.	U11-911079	0/11	5/9	.	0/12	10/10	10\10	2.8	.	.
PTI B	21.	U11-913028	1/8	7/12	.	0/10	8/9	10\11	2.8	.	.
PTI B	22.	U11-913102	0/8	0/11	.	0/9	1/11	13\13	1.0	.	.
PTI B	23.	U11-915054	0/8	4/7	.	0/8	7/7	10\10	4.3	.	.
PTI B	24.	U11-917032	7/12	9/10	.	8/11	7/7	10\10	4.8	.	.
PTI B	25.	U11-918019	3/11	9/10	.	8/11	10/11	7\7	4.8	.	.
PTI B	26.	U11-918052	6/12	9/10	.	3/10	11/12	11\11	4.7	.	.
PTI B	27.	U11-932025	6/10	10/10	.	8/10	8/9	9\9	5.3	.	.
PTI B	28.	U11-932077	8/12	6/9	.	10/11	10/10	14\14	5.5	.	.
PTI B	29.	U11-932079	4/9	7/11	.	9/11	7/7	12\12	6.5	.	.
PTI B	30.	U11-905076	9/10	10/10	.	9/11	10/10	13\13	4.5	.	.

Test	**Controls**	**R1**	**R4**	**R7**	**R17**	**R25**
		(7)	(1a,1c,5,7)	(1a,2,3a,3c,4,5,6,7)	(1b,1d,2,3,4,5,6,7,8)	(1a,1b,1c,1k,7)
PTIA	None	12/12	9/10	.	11/12	10/11
&	1a (Harosoy)	3/11	8/11	.	3/12	8/10
PTIB	1a (Union)	2/10	2/14	.	0/13	10/11
	1b	2/9	5/11	.	10/11	10/10
	1c	0/10	11/12	.	0/12	10/10
	1d	8/12	0/11	.	9/11	8/10
	1k	0/11	7/12	.	0/12	10/10
	2	0/11	1/12	.	11/11	1/10
	3a	0/10	0/11	.	9/9	0/9
	3b	1/10	7/12	.	11/11	0/6
	3c	5/11	0/11	.	8/11	1/9
	4	0/11	0/12	.	12/12	0/11
	5	1/12	0/12	.	12/12	4/11
	6	1/10	2/12	.	12/12	0/9
	7	10/11	7/14	.	8/12	6/8
	8	0/12	0/14	.	8/12	1/7

2013 Soybean Phytophthora Rps Gene Evaluation - Indiana

2013 Phytophthora Evaluations-Ohio

Test	Entry #	Strain	R1	R4	R7	R17	R25	Partial Resistance R25	Partial Resistance R25	Partial Resistance C2S1	Partial Resistance C2S1
			(7)	(1a,1c,5,7)	(1a,2,3a,3c,4,5,6,7)	(1b,1d,2,3,4,5,6,7,8)	(1a,1b,1c,1k,7)	(1a,1b,1c,1k,7)			
PTII A	1.	IA 2102 (II)	3/10	8/12	.	3/9	7/9	13\13	3.0	.	.
PTII A	2.	IA1022 (SCN)	1/11	9/10	.	3/8	4/7	.	.	.	.
PTII A	3.	IA3024	0/8	5/8	.	1/10	3/9	9\9	5.8	.	.
PTII A	4.	AR12-228004	0/9	9/11	.	8/10	8/9	13\13	3.8	.	.
PTII A	5.	AR12-228016	0/11	5/10	.	0/9	6/7	13\13	3.0	.	.
PTII A	6.	AR12-228031	0/12	10/11	.	0/11	8/10	15\15	3.5	.	.
PTII A	7.	AR12-228047	2/12	9/10	.	7/12	9/11	14\14	4.5	.	.
PTII A	8.	AR12-228063	0/11	8/9	.	9/10	6/10	15\15	3.3	.	.
PTII A	9.	AR12-228097	0/11	12/12	.	2/12	8/9	15\15	6.0	.	.
PTII A	10.	AR12-228114	0/11	11/11	.	10/12	8/10	13\13	4.3	.	.
PTII A	11.	AR12-228117	0/11	10/11	.	2/10	7/9	13\13	3.8	.	.
PTII A	12.	AR12-228127	0/10	9/9	.	2/10	6/10	13\13	4.2	.	.
PTII A	13.	AR12-228136	4/11	9/12	.	6/10	5/8	13\13	5.7	.	.
PTII A	14.	AR12-228141	2/11	9/10	.	8/11	7/11	12\12	4.3	.	.
PTII A	15.	AR12-228146	0/12	7/7	.	4/12	9/11	14\14	5.0	.	.
PTII A	16.	AR12-228149	0/11	10/10	.	9/12	5/10	14\14	4.8	.	.
PTII A	17.	E11095	3/11	.	.	7/10	8/11	13\13	5.2	.	.
PTII A	18.	E11291LL	0/11	11/12	.	0/11	6/11	15\15	5.5	.	.
PTII A	19.	E11399	2/12	11/11	.	0/10	9/10	15\15	5.2	.	.
PTII A	20.	E11401	0/12	5/9	.	0/11	8/11	13\13	4.3	.	.
PTII A	21.	E11431	0/12	10/11	.	0/12	8/9	15\15	3.5	.	.
PTII A	22.	LD10-5213a	0/12	10/10	.	8/9	12/12	15\15	4.2	.	.
PTII A	23.	LD10-5330a	0/11	8/11	.	4/11	5/8	12\12	5.2	.	.
PTII A	24.	LD10-5587a	2/12	5/7	.	12/12	8/11	12\12	4.8	.	.
PTII A	25.	LD10-30036	0/11	9/12	.	0/12	7/9	15\15	4.3	.	.
PTII A	26.	HM09-W053	0/12	0/9	.	1/12	1/9	6\13	.	8\12	2.5
PTII A	27.	HM10-W083	0/11	7/11	.	2/11	0/8	5\13	.	13\14	2.0
PTII A	28.	HM11-G016	0/11	6/11	.	0/9	0/11	4\15	.	13\14	2.3
PTII A	29.	HM11-G021	0/12	11/11	.	0/12	0/10	6\15	.	12\14	.
PTII A	30.	HM11-G023	0/12	2/8	.	0/11	0/12	4\15	.	10\15	2.0
PTII B	1.	IA 2102 (II)	3/11	8/8	.	6/8	9/9	11\11	4.0	.	.
PTII B	2.	IA1022 (SCN)	0/11	1/10	.	8/9	7/9	13\14	3.3	.	.
PTII B	3.	IA3024	0/11	7/10	.	0/8	4/7	10\10	6.0	.	.
PTII B	4.	M08-1608-1026	2/9	5/6	.	3/9	2/11	14\14	1.5	.	.
PTII B	5.	M08-1609002	2/12	1/6	.	2/8	3/10	14\14	5.0	.	.
PTII B	6.	MLG03-4069017	1/12	6/8	.	0/11	6/9	13\13	3.8	.	.
PTII B	7.	SD10-7225	0/9	7/12	.	0/8	12/12	13\13	5.0	.	.
PTII B	8.	SD10-7247	0/10	8/9	.	0/9	9/10	11\12	5.0	.	.
PTII B	9.	SD10-7346	0/12	10/10	.	0/11	11/11	10\10	4.8	.	.
PTII B	10.	SD10CV-2005	0/11	4/6	.	0/7	4/7	.	.	.	.
PTII B	11.	SD10CV-2013	0/10	5/7	.	1/6	1/7	.	.	.	.
PTII B	12.	U11-610109	2/11	9/11	.	7/9	8/9	12\12	4.5	.	.
PTII B	13.	U11-610122	3/10	9/10	.	4/10	9/9	8\8	6.7	.	.
PTII B	14.	U11-611112	1/7	5/9	.	6/6	6/7	12\12	5.2	.	.
PTII B	15.	U11-614119	0/11	9/12	.	0/5	4/7	12\12	5.7	.	.
PTII B	16.	U11-615155	3/12	9/9	.	0/10	5/6	10\10	6.2	.	.
PTII B	17.	U11-616107	0/10	5/8	.	3/11	5/6	11\11	4.2	.	.
PTII B	18.	U11-619102	2/9	6/10	.	1/8	3/6	10\10	3.3	.	.
PTII B	19.	U11-619104	4/9	5/8	.	8/9	5/8	10\10	4.8	.	.
PTII B	20.	U11-620101	0/8	6/7	.	1/10	3/7	.	.	.	.
PTII B	21.	U11-622089	0/9	9/10	.	3/9	8/8	9\9	1.8	.	.
PTII B	22.	U11-910094	0/9	10/11	.	0/11	6/9	13\14	3.0	.	.
PTII B	23.	U11-919011	2/9	8/10	.	4/8	5/7	12\12	3.8	.	.
PTII B	24.	U11-920016	1/11	11/12	.	2/9	7/7	13\13	5.0	.	.
PTII B	25.	U11-920017	0/8	5/7	.	0/9	10/11	.	4.7	.	.

PTIII A	1.	IA3023 (III)	2/8	2/4	.	7/9	4/7	7\7	3.7	.	.
PTIII A	2.	IA3024	0/9	4/6	.	0/10	3/7	12\12	4.3	.	.
PTIII A	3.	IA3048 (SCN)	0/7	.	.	1/6	6/6	6\6	3.7	.	.
PTIII A	4.	IA4005	1/12	.	.	7/11	11/12	15\15	4.2	.	.
PTIII A	5.	AR12-228017	0/10	.	.	3/9	4/7	14\14	2.3	.	.
PTIII A	6.	AR12-228108	0/11	.	.	0/11	12/12	11\11	4.8	.	.
PTIII A	7.	AR12-228120	5/12	.	.	9/10	11/11	11\11	6.0	.	.
PTIII A	8.	AR12-228145	2/11	.	.	6/11	7/12	13\13	4.0	.	.
PTIII A	9.	AR12-328003	2/10	.	.	8/9	1/9	9\9	4.7	.	.
PTIII A	10.	AR12-328006	0/11	.	.	0/9	8/11	13\13	5.5	.	.
PTIII A	11.	AR12-328011	0/7	9/9	.	0/9	6/9	11\11	3.7	.	.
PTIII A	12.	AR12-328018	1/7	7/7	.	5/8	4/4	9\9	3.7	.	.
PTIII A	13.	AR12-328020	0/11	7/7	.	0/6	10/11	8\8	3.2	.	.
PTIII A	14.	AR12-328034	7/11	10/11	.	3/9	11/11	13\13	4.7	.	.
PTIII A	15.	AR12-328048	7/9	8/10	.	3/9	10/10	15\15	4.2	.	.
PTIII A	16.	AR12-328074	6/11	10/11	.	5/10	7/10	13\13	4.2	.	.
PTIII A	17.	AR12-328078	9/11	8/8	.	4/10	9/12	10\10	3.8	.	.
PTIII A	18.	AR12-328080	0/9	6/8	.	0/8	10/11	9\9	4.5	.	.
PTIII A	19.	HM10-A012	0/12	6/11	.	0/12	0/11	5\15	.	.	.
PTIII A	20.	HM10-W336	1/11	9/11	.	0/10	10/11	15\15	5.0	.	.
PTIII A	21.	HM10-W346	8/12	7/12	.	0/12	9/12	15\15	4.7	.	.
PTIII A	22.	HM11-H031	5/12	10/11	.	0/12	12/12	14\14	4.3	.	.
PTIII A	23.	HM11-W157	9/11	10/12	.	9/11	9/10	13\13	3.7	.	.
PTIII A	24.	HM11-W192	0/12	6/12	.	0/10	0/11	.	.	.	.
PTIII A	25.	HM11-W193	0/12	4/12	.	7/8	0/11	.	.	.	.
PTIII A	26.	LG09-7477	4/10	8/12	.	4/12	9/11	.	.	.	.
PTIII A	27.	LG10-2688	8/12	7/9	.	4/12	10/11	13\13	3.7	.	.
PTIII A	28.	LG10-2983	4/11	6/12	.	2/9	6/10	14\14	5.0	.	.
PTIII A	29.	LG10-3409	4/12	7/12	.	7/10	8/10	15\15	6.7	.	.
PTIII A	30.	LG10-3413	7/12	9/12	.	2/12	9/11	15\15	3.3	.	.
PTIII A	31.	LG11-5120	5/12	11/12	.	3/10	9/9	13\13	4.2	.	.
PTIII A	32.	LG11-6210	2/11	9/9	.	2/11	10/11	12\12	4.0	.	.
PTIII A	33.	LG11-6214	2/11	9/9	.	8/12	5/11	.	.	.	.

Test	**Controls**	**R1**	**R4**	**R7**	**R17**	**R25**
		(7)	(1a,1c,5,7)	(1a,2,3a,3c,4,5,6,7)	(1b,1d,2,3,4,5,6,7,8)	(1a,1b,1c,1k,7)
PTIIA	None	10/12	9/11	.	19/22	8/9
&	1a (Harosoy)	2/12	11/11	.	4/22	8/9
PTIIB	1a (Union)	0/13	6/15	.	0/20	8/10
&	1b	0/12	9/11	.	11/17	10/10
PTIIIA	1c	0/12	7/10	.	1/16	6/9
	1d	0/11	7/11	.	14/19	3/9
	1k	0/12	7/9	.	1/18	11/11
	2	0/12	2/10	.	9/17	2/12
	3a	0/10	0/11	.	19/20	0/11
	3b	0/11	10/15	.	15/18	0/8
	3c	0/12	3/10	.	5/11	0/10
	4	0/12	5/9	.	11/18	0/11
	5	0/12	2/8	.	14/16	0/11
	6	0/11	2/11	.	14/18	0/9
	7	3/12	8/11	.	9/20	12/12
	8	0/11	4/14	.	1/20	1/10

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Test	Entry #	Strain	R1	R4	R7	R17	R25	Partial Resistance R25	Partial Resistance R25	Partial Resistance C2S1	Partial Resistance C2S1
			(7)	(1a,1c,5,7)	(1a,2,3a,3c,4,5,6,7)	(1b,1d,2,3,4,5,6,7,8)	(1a,1b,1c,1k,7)	(1a,1b,1c,1k,7)			
PTIII B	1.	IA3023 (III)	5/10	5/9	.	8/8	9/9	7\8	4.8	.	.
PTIII B	2.	IA3024	4/7	8/8	.	0/7	8/9	9\9	4.5	.	.
PTIII B	3.	IA3048 (SCN)	1/2	3/4	.	6/8	8/8	7\7	2.0	.	.
PTIII B	4.	IA4005	7/12	9/12	.	9/12	11/12	7\7	3.7	.	.
PTIII B	5.	LD10-776	11/11	8/10	.	8/12	11/12	10\10	4.7	.	.
PTIII B	6.	LD10- 2477	8/12	9/12	.	10/12	9/12	9\9	4.5	.	.
PTIII B	7.	LD10- 9110	11/12	7/10	.	11/12	10/11	8\8	4.8	.	.
PTIII B	8.	LD10- 9168	6/11	7/11	.	9/11	11/11	8\8	3.2	.	.
PTIII B	9.	LD10- 9200	10/12	5/9	.	10/12	11/12	9\9	4.0	.	.
PTIII B	10.	LD10-10150	4/11	2/11	.	7/10	8/9	9\9	3.3	.	.
PTIII B	11.	LD10-10213	6/12	1/12	.	8/11	9/10	9\9	4.2	.	.
PTIII B	12.	LD10-10226	2/12	4/12	.	2/12	4/10	9\9	4.0	.	.
PTIII B	13.	LD10-11740	9/11	6/11	.	9/11	9/11	9\9	5.2	.	.
PTIII B	14.	LD10-30004	11/11	6/10	.	0/11	11/12	11\11	5.3	.	.
PTIII B	15.	LD10-30019	4/10	2/12	.	0/11	10/11	10\10	4.0	.	.
PTIII B	16.	U11-605110	3/8	8/9	.	0/8	9/9	10\10	4.0	.	.
PTIII B	17.	U11-615157	2/8	5/11	.	0/10	11/11	8\8	5.0	.	.
PTIII B	18.	U11-616086	6/11	6/10	.	0/8	7/8	8\8	4.2	.	.
PTIII B	19.	U11-616111	1/10	2/9	.	0/11	9/9	8\8	5.3	.	.
PTIII B	20.	U11-621085	4/7	10/12	.	0/10	7/7	8\8	5.3	.	.
PTIII B	21.	U11-622148	0/8	2/7	.	0/10	5/10	8\8	5.5	.	.
PTIII B	22.	U11-623105	3/11	6/11	.	0/11	7/9	7\7	5.2	.	.
PTIII B	23.	U11-628132	4/10	4/8	.	1/10	6/7	7\7	2.7	.	.
PTIII B	24.	U11-629113	7/9	2/6	.	5/8	5/6	5\5	1.8	.	.
PTIII B	25.	U11-630092	0/5	4/6	.	1/8	5/5	12\12	4.3	.	.
PTIII B	26.	U11-641122	7/9	9/11	.	0/9	9/10	8\8	3.8	.	.
PTIII B	27.	U11-649117	10/11	3/9	.	7/11	11/11	9\9	4.5	.	.

Test	Controls	R1	R4	R7	R17	R25
		(7)	(1a,1c,5,7)	(1a,2,3a,3c,4,5,6,7)	(1b,1d,2,3,4,5,6,7,8)	(1a,1b,1c,1k,7)
PTIIIB	None	10/11	9/10	.	11/12	10/12
	1a (Harosoy)	4/11	8/11	.	3/12	12/12
	1a (Union)	0/14	2/14	.	0/13	14/14
	1b	1/10	5/11	.	10/11	10/10
	1c	4/12	11/12	.	0/12	11/11
	1d	4/9	0/11	.	9/11	10/10
	1k	1/11	7/12	.	0/12	9/10
	2	6/10	1/12	.	11/11	0/10
	3a	0/8	0/11	.	9/9	0/10
	3b	0/12	7/12	.	11/11	3/9
	3c	2/9	0/11	.	8/11	7/12
	4	1/12	0/12	.	12/12	3/10
	5	2/12	0/12	.	12/12	10/11
	6	0/11	2/12	.	12/12	3/12
	7	10/13	7/14	.	8/12	12/12
	8	2/15	0/14	.	8/12	7/12

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Test	Entry #	Strain	R1	R4	R7	R17	R25	Partial Resistance R25	Partial Resistance R25	Partial Resistance C2S1	Partial Resistance C2S1
			(7)	(1a,1c,5,7)	(1a,2,3a,3c,4,5,6,7)	(1b,1d,2,3,4,5,6,7,8)	(1a,1b,1c,1k,7)	(1a,1b,1c,1k,7)			
UTIII	1.	IA3023 (III)	8/9	.	.	.	8/9	6\6	5.0	.	.
UTIII	2.	IA3024	0/9	.	.	.	8/9	9\10	6.2	.	.
UTIII	3.	IA3048 (SCN)	5/5	.	.	.	6/7	4\4	4.5	.	.
UTIII	4.	IA4005	9/12	.	.	.	11/11	11\11	5.0	.	.
UTIII	5.	AR11-214015	3/10	.	.	.	7/8	12\12	4.2	.	.
UTIII	6.	LD08-1592	8/11	.	.	.	11/11	13\13	3.0	.	.
UTIII	7.	LD08-8622	7/12	.	.	.	11/11	10\10	4.0	.	.
UTIII	8.	LD08-RST5-10	12/12	.	.	.	11/11	13\13	4.2	.	.
UTIII	9.	LG09-7163	8/12	.	.	.	12/12	14\14	3.3	.	.
UTIII	10.	LG09-8165	10/12	.	.	.	10/12	15\15	3.5	.	.
UTIII	11.	U10-430052	0/10	.	.	.	11/11	10\10	5.2	.	.
UTIV	1.	LD06-7620	9/9	.	.	.	12/12	14\14	3.7	.	.
UTIV	2.	IA4005	10/12	.	.	.	12/12	13\13	5.5	.	.
UTIV	3.	LD00-2817P (L)	4/12	.	.	.	10/10	15\15	3.7	.	.
UTIV	4.	K11-1163	3/10	.	.	.	10/11	12\12	4.8	.	.
UTIV	5.	K11-1173	4/12	.	.	.	12/12	14\14	3.8	.	.
UTIV	6.	K11-1196	1/10	.	.	.	12/12	13\13	3.5	.	.
UTIV	7.	K11-1204	9/11	.	.	.	10/10	15\15	4.2	.	.
UTIV	8.	K11-1252	3/11	.	.	.	11/12	13\13	5.2	.	.
UTIV	9.	K11-1289	0/12	.	.	.	12/12	14\14	3.7	.	.
UTIV	10.	K11-1778	1/12	.	.	.	10/11	13\13	5.0	.	.
UTIV	11.	K11-2216	2/12	.	.	.	3/12	.	.	.	.
UTIV	12.	LD10-9423	9/12	.	.	.	11/12	12\12	3.8	.	.
UTIV	13.	LD10-9483	1/12	.	.	.	11/12	10\10	5.8	.	.
UTIV	14.	LG09-7167	0/12	.	.	.	7/11	15\15	4.8	.	.
UTIV	15.	LG09-7739	12/12	.	.	.	9/12	15\15	4.2	.	.
UTIV	16.	LG09-8519	4/12	.	.	.	12/12	15\15	5.5	.	.
UTIV	17.	LG10-2695	12/12	.	.	.	11/12	15\15	5.0	.	.
UTIV	18.	LG10-2699	11/12	.	.	.	12/12	12\12	3.3	.	.
UTIV	19.	LG10-3045	5/12	.	.	.	5/12	.	.	.	.
UTIV	20.	LG10-3250	0/12	.	.	.	8/11	.	.	.	.
UTIV	21.	LG10-3987	0/11	.	.	.	2/12	15\15	3.0	.	.
UTIV	22.	LG11-6190	8/10	.	.	.	12/12	12\12	4.3	.	.
UTIV	23.	LG11-6205	10/12	.	.	.	11/12	14\14	4.3	.	.
UTIV	24.	LG11-6208	1/11	.	.	.	11/12	12\12	3.0	.	.
UTIV	25.	LG11-7662	11/12	.	.	.	12/12	15\15	4.8	.	.
UTIV	26.	LG11-7722	11/11	.	.	.	8/12	13\13	4.3	.	.
UTIV	27.	LG11-7727	10/12	.	.	.	12/12	15\15	4.5	.	.
UTIV	28.	LG11-7880	0/12	.	.	.	9/12	13\13	2.8	.	.
UTIV	29.	SA10-8471	7/11	.	.	.	9/11	15\15	4.2	.	.
UTIV	30.	SA10-11227	12/12	.	.	.	11/11	13\13	4.5	.	.
UTIV	31.	S11-14926	0/12	.	.	.	7/8	13\13	4.7	.	.
UTIV	32.	S11-15382	2/10	.	.	.	7/10	13\13	4.2	.	.

UTII RR	1.	U06-814223R (II)	0/12	.	.	.	11/12	13\13	3.7	.	.
UTII RR	2.	AG2031 (E)	0/12	.	.	.	11/12	14\14	4.0	.	.
UTII RR	3.	AG2606	1/9	.	.	.	10/11	14\14	3.7	.	.
UTII RR	4.	NEX2905A0R (L)	3/9	.	.	.	3/7	11\11	4.8	.	.
UTII RR	5.	U07-135601R	0/10	.	.	.	4/9	.	.	.	.
UTII RR	6.	U07-135636R	0/10	.	.	.	10/10	14\14	3.2	.	.
UTII RR	7.	U07-236940R	0/7	.	.	.	5/8	10\10	4.2	.	.
UTII RR	8.	U11-607166R	0/10	.	.	.	9/12	13\13	3.3	.	.
UTII RR	9.	U11-607174R	0/11	.	.	.	9/10	11\11	4.2	.	.
UTII RR	10.	U11-609165R	0/11	.	.	.	10/11	9\9	4.7	.	.
UTII RR	11.	U11-924119R	0/8	.	.	.	6/6	13\14	1.3	.	.
UTII RR	12.	U11-926111R	0/11	.	.	.	9/10	10\10	1.7	.	.
UTII RR	13.	U11-931121R	1/9	.	.	.	9/10	12\12	2.0	.	.
UTII RR	14.	U12-902102R	8/10	.	.	.	10/12	9\10	5.0	.	.
UTII RR	15.	U12-902104R	9/10	.	.	.	9/11	13\13	3.0	.	.
UTII RR	16.	U12-902108R	5/9	.	.	.	9/10	13\13	1.3	.	.
UTII RR	17.	U12-907117R	6/11	.	.	.	9/9	11\12	4.2	.	.
UTII RR	18.	U12-909110R	0/10	.	.	.	7/11	9\9	1.0	.	.
UTII RR	19.	U12-920124R	0/8	.	.	.	9/11	14\14	3.3	.	.
UTII RR	20.	U12-923116R	0/11	.	.	.	3/8	14\14	2.0	.	.
UTII RR	21.	U12-923122R	0/11	.	.	.	7/11	11\11	1.3	.	.
UTII RR	22.	U12-924117R	0/8	.	.	.	8/10	10\10	2.0	.	.
UTII RR	23.	U12-926110R	0/12	.	.	.	6/9	12\12	1.3	.	.
UTII RR	24.	U12-926115R	0/10	.	.	.	8/11	10\10	1.0	.	.
UTII RR	25.	U12-927105R	0/12	.	.	.	4/9	11\11	1.3	.	.

Test	**Controls**	**R1**	**R4**	**R7**	**R17**	**R25**
		(7)	(1a,1c,5,7)	(1a,2,3a,3c,4,5,6,7)	(1b,1d,2,3,4,5,6,7,8)	(1a,1b,1c,1k,7)
UTIII	None	10/11	.	.	.	10/12
&	1a (Harosoy)	4/11	.	.	.	12/12
UTIV	1a (Union)	0/14	.	.	.	14/14
&	1b	1/10	.	.	.	10/10
UTIIRR	1c	4/12	.	.	.	11/11
	1d	4/9	.	.	.	10/10
	1k	1/11	.	.	.	9/10
	2	6/10	.	.	.	0/10
	3a	0/8	.	.	.	0/10
	3b	0/12	.	.	.	3/9
	3c	2/9	.	.	.	7/12
	4	1/12	.	.	.	3/10
	5	2/12	.	.	.	10/11
	6	0/11	.	.	.	3/12
	7	10/13	.	.	.	12/12
	8	2/15	.	.	.	7/12

2013 Soybean Phytophthora Rps Gene Evaluation - Indiana

2013 Phytophthora Evaluations-Ohio

Test	Entry #	Strain	R1	R4	R7	R17	R25	Partial Resistance R25	Partial Resistance R25	Partial Resistance C2S1	Partial Resistance C2S1
			(7)	(1a,1c,5,7)	(1a,2,3a,3c,4,5,6,7)	(1b,1d,2,3,4,5,6,7,8)	(1a,1b,1c,1k,7)	(1a,1b,1c,1k,7)			
UT00RR	1.	AG0532	0/12	.	0/10	.	8/12	15\15	5.2	.	.
UT00RR	2.	AG0231 (E)	0/12	.	0/10	.	8/10	12\12	4.2	.	.
UT00RR	3.	AG0808	1/11	.	0/11	.	7/11	13\13	5.3	.	.
UT00RR	4.	AG1230	0/12	.	1/12	.	11/12	12\13	2.7	.	.
UT00RR	5.	M06R-614008	9/11	.	5/10	.	6/8	10\10	2.8	.	.
UT00RR	6.	M06R-614016	0/9	.	1/12	.	6/10	9\9	4.0	.	.
UT00RR	7.	MN1410R2F5-83	2/11	.	4/12	.	10/11	11\11	3.3	.	.
UT00RR	8.	MN1410R2F5-121	10/11	.	8/9	.	10/10	13\13	3.7	.	.
UT00RR	9.	MN1410R2F5-217	2/11	.	3/10	.	9/9	13\13	2.8	.	.
UTIRR	1.	AG1631	0/12	.	0/11	.	9/12	15\15	3.3	.	.
UTIRR	2.	AG1230 (E)	0/9	.	1/11	.	10/12	14\14	4.2	.	.
UTIRR	3.	U07-135601R	1/8	.	0/11	.	7/8	8\8	1.7	.	.
UTIRR	4.	AG2031	0/12	.	0/12	.	8/12	15\15	3.2	.	.
UTIRR	5.	M00-530039	8/11	.	2/12	.	5/8	14\14	2.7	.	.
UTIRR	6.	MN1410R2F5-4	0/12	.	8/11	.	8/11	15\15	4.3	.	.
UTIRR	7.	MN1410R2F5-22	12/12	.	8/9	.	7/11	15\15	4.5	.	.
UTIRR	8.	MN1410R2F5-117	0/12	.	0/11	.	12/12	15\15	4.8	.	.
UTIRR	9.	U12-903108R	9/9	.	9/9	.	11/11	12\12	5.0	.	.
UTIRR	10.	U12-904114R	0/11	.	1/4	.	7/8	12\12	1.8	.	.
UTIRR	11.	U12-920105R	0/10	.	0/10	.	11/11	14\14	1.3	.	.
UTIRR	12.	U12-922122R	0/11	.	0/10	.	8/8	14\14	2.3	.	.
UTIVRR	1.	AG4005	0/11	.	0/11	.	8/8	11\11	2.5	.	.
UTIVRR	2.	AG3803	0/9	.	0/13	.	6/8	9\9	3.0	.	.
UTIVRR	3.	AG4232	0/11	.	7/11	.	8/9	12\12	1.8	.	.
UTIVRR	4.	LD11-13342Ra	8/11	.	7/10	.	5/10	10\10	4.8	.	.
UTIVRR	5.	LD11-13834R	11/12	.	11/11	.	9/9	13\13	3.3	.	.
UTIVRR	6.	LD11-13948R	12/12	.	7/10	.	10/11	14\14	4.3	.	.
UTIVRR	7.	S10-6090RR	0/12	.	0/12	.	7/9	15\15	.	.	.
UTIVRR	8.	S11-9938	0/7	.	7/9	.	5/8	10\10	5.3	.	.
UTIVRR	9.	S11-10082	0/11	.	9/11	.	8/8	12\12	5.2	.	.
UTIVRR	10.	S11-10163	0/10	.	.	.	5/6	13\13	2.3	.	.

Test	Controls	R1	R4	R7	R17	R25
		(7)	(1a,1c,5,7)	(1a,2,3a,3c,4,5,6,7)	(1b,1d,2,3,4,5,6,7,8)	(1a,1b,1c,1k,7)
	None	10/11	.	20/24	.	12/12
	1a (Harosoy)	0/7	.	12/22	.	7/9
	1a (Union)	2/12	.	18/21	.	6/10
	1b	2/11	.	0/21	.	10/11
	1c	0/10	.	1/18	.	9/10
	1d	10/11	.	8/20	.	5/11
	1k	0/10	.	0/18	.	10/11
	2	7/9	.	20/21	.	3/12
	3a	0/9	.	16/17	.	0/8
	3b	0/8	.	1/22	.	0/9
	3c	9/11	.	18/24	.	2/7
	4	8/12	.	15/19	.	0/8
	5	0/8	.	16/16	.	0/10
	6	5/11	.	19/22	.	0/9
	7	10/10	.	12/22	.	4/11
	8	5/8	.	0/16	.	1/7

2013 Soybean Phytophthora Rps Gene Evaluation - Indiana

2013 Phytophthora Evaluations-Ohio

Test	Entry #	Strain	R1	R4	R7	R17	R25	Partial Resistance R25	Partial Resistance R25	Partial Resistance C2S1	Partial Resistance C2S1
			(7)	(1a,1c,5,7)	(1a,2,3a,3c,4,5,6,7)	(1b,1d,2,3,4,5,6,7,8)	(1a,1b,1c,1k,7)	(1a,1b,1c,1k,7)			
UTIIIRR	1.	U03-827101 (SCN)	.	6/7	.	0/5	6/6	8\8	2.8	.	.
UTIIIRR	2.	NEX2905A0R (E)	.	8/9	.	2/10	9/9	9\9	4.2	.	.
UTIIIRR	3.	AG3504	.	9/9	.	0/7	7/10	11\11	3.2	.	.
UTIIIRR	4.	AG3803	.	4/9	.	0/12	5/10	.	.	.	.
UTIIIRR	5.	LD09-17123R2	.	10/10	.	5/12	12/12	11\11	3.3	.	.
UTIIIRR	6.	LD09-17213R2	.	11/12	.	7/11	11/12	5\12	2.7	.	.
UTIIIRR	7.	LD09-17220R2	.	9/12	.	1/8	7/10	10\10	3.7	.	.
UTIIIRR	8.	LD11-13814R	.	11/12	.	1/12	8/11	13\13	4.5	.	.
UTIIIRR	9.	LD11-14102R	.	11/11	.	6/12	11/12	11\12	4.2	.	.
UTIIIRR	10.	LD11-14160R	.	11/12	.	5/11	10/11	9\9	3.7	.	.
UTIIIRR	11.	LD11-14283R	.	7/12	.	7/11	10/10	.	3.8	.	.
UTIIIRR	12.	LD11-14287R	.	9/12	.	6/12	10/11	.	2.5	.	.
UTIIIRR	13.	LD11-14335R	.	7/10	.	7/9	12/12	.	3.2	.	.
UTIIIRR	14.	LD11-14362R	.	5/11	.	7/12	6/12	14\15	2.3	.	.
UTIIIRR	15.	U12-903124R	.	5/10	.	1/11	4/6	11\11	2.3	.	.
UTIIIRR	16.	U12-906103R	.	5/7	.	0/10	9/11	5\11	4.0	.	.
UTIIIRR	17.	U12-911104R	.	3/9	.	0/6	8/10	10\10	3.2	.	.
UTIIIRR	18.	U12-913114R	.	6/6	.	0/8	4/7	13\13	2.3	.	.
UTIIIRR	19.	U12-915108R	.	7/8	.	0/5	3/8	.	.	.	.
UTIIIRR	20.	U12-916111R	.	3/6	.	0/9	2/10	.	.	.	.
UTIIIRR	21.	U12-916112R	.	7/9	.	0/9	8/8	9\10	4.2	.	.
UTIIIRR	22.	U12-917104R	.	1/7	.	0/6	1/5	.	.	.	.
UTIIIRR	23.	U12-926101R	.	8/9	.	1/8	9/9	14\14	1.5	.	.

Test	Controls	R1	R4	R7	R17	R25
		(7)	(1a,1c,5,7)	(1a,2,3a,3c,4,5,6,7)	(1b,1d,2,3,4,5,6,7,8)	(1a,1b,1c,1k,7)
	None	.	9/11	.	19/22	8/9
	1a (Harosoy)	.	11/11	.	4/22	8/9
	1a (Union)	.	6/15	.	0/20	8/10
	1b	.	9/11	.	11/17	10/10
	1c	.	7/10	.	1/16	6/9
	1d	.	7/11	.	14/19	3/9
	1k	.	7/9	.	1/18	11/11
	2	.	2/10	.	9/17	2/12
	3a	.	0/11	.	19/20	0/11
	3b	.	10/15	.	15/18	0/8
	3c	.	3/10	.	5/11	0/10
	4	.	5/9	.	11/18	0/11
	5	.	2/8	.	14/16	0/11
	6	.	2/11	.	14/18	0/9
	7	.	8/11	.	9/20	12/12
	8	.	4/14	.	1/20	1/10

IDENTIFICATION OF PARENT STRAINS 2013

Strain	Parentage
A4	L15 x AP68-1016
A8	A4 x Century
A20	BSR101 x CN210
A55-5629-4	Roanoke x Hawkeye
A75-204018	IVR4731 x Wirth
A76-304020	(Beeson x AP68-1016) x (L15 x Calland)
A80-346029	A75-204018 x BSR 301
A81-151026	A75-204018 x Century
A81-356022	Century x A76-304020
A83-271027	Northrup King S1492 x Asgrow A3127
A86-301024	A81-356022 x Hack
A87-296011	Harper x A80-346029
A87-395012	Fayette x Asgrow A3659
A91-701035	A86-301024 x DeKalb 226
A92-525014	IA2008 x Kenwood
A92-526007	A20 x Asgrow A2234
A92-535029	
A94-773014	Pioneer P9303 x A87-395012
A95-581028	Marcus x Pioneer 9273
A97-871009	NKS20-12 x (A92-535029 x IA2021)
A97-973002	LN90-4366 x IA3005
A99-217006	Dairyland DSR-365 x Agripro Ap1995
A02-381008	SD98-76192 x N98-4445A
A02-381100-1539	IA2064 x XB27U01
A06-915014	
AgriPro 26	Beeson x Calland
Agripro 68-1016	Clark (5) x PI 84.946-2
Agripro 1989	AgriPro AP26 x Vickery
Agripro AP1995	Unknown
Agripro 96596-B99-24476	
AP68-1016	Clark (5) x PI 84.946-2
AR3 (A00-882130)	(Northrup King S20-20 x Asgrow 2234) x Pioneer 9254
AR03-361091	LS90-1920 x IA1008
AR04-874018	Pioneer 9254 x (Northrup King S20-20 x Asgrow 2234)
AR04-874024	(Pioneer 9233 x (Pioneer 9273 x (Jacques J231 x A8)
AR05-150079	Pana x Agripro 96596-B99-24476
AR05-150109	S25-J5 x IA2050
AR05-150102	Syngenta S25-J5 x IA 2050
AR05-250002	(IA2050 x ((Pioneer P9303 x (Fayette x Asgrow A3659)) x AP1995))
AR05-250101	Syngenta S10-F2 x Pana
AR05-250110	Loda x Syngenta S10-F2
AR06-264007	Loda x Syngenta S10-F2
AR06-364039	LS98-0582 x Syngenta S16-Y6
AR07-176119	Golden Harvest 24040 x Garst-Agripro 96289-A99-31240
AR07-176049	IA1006 x LS99-2235
AR07-176037	IAR2001BSR x Soygenetics 96-2205
AR07-176075	Golden Harvest 24040 x Golden Harvest H-2285
AR07-176077	Golden Harvest 24040 x Agripro 96596-B99-24476
AR07-276077	Golden Harvest 24040 x Golden Harvest H-2285
AR07-376031	Syngenta S16-Y6 x LS99-2235
Asgrow A2234	[(Calland x Amsoy) x (Century(3) x Williams82)]
Asgrow A3127	Williams x Essex

IDENTIFICATION OF PARENT STRAINS 2013

Strain	Parentage
Asgrow A3659	Williams x Essex
Asgrow A3935	MO474C x Asgrow A3127
Asgrow A5475	(Tracy x d5064) x Bedford
AX56P64-1	Adams x Harosoy
C1079	Lincoln x Ogden
C1842	[Spencer (2) x Pella 86] x Resnik
C1907	A87-296011 x CX1039-99
C1944	CRS3-998-24-1 x HC85-2206
CM293	
CRS3-998-24-1	Sel from High Pro Recurrent Sel Pop.
CX1039-99	Cutler 71(3) x Pando
Dairyland DSR 304	Williams x Unknown
Dairyland DSR 365	
Dekalb 226	Unknown
E00003	Agripro AP1995 x Pioneer P9281
E07933	
E08901	
Golden Harvest 24040	
Golden Harvest H2885	
Golden Harvest X 33802	
HC85-2206	Elf x Williams 82
HC99-2763	
HF03-546	A95-581028 x PI592.926
HF04-0648	HS93-4118 x IA 3023 x PI 567.374
HM10-A012	Dennison x HS4-2973
HM10-W336	HS5-1134 x HS3-2669
HM10-W346	HS5-1134 x HS3-2669
HM11-H031	HS4-2973 x HF04-0648
HM11-W157	HS4-2973 x OHS 303
HM11-W192	OHS 305 x OHS 303
HM11-W193	OHS 305 x OHS 303
HS3-2669	U97-3114 x HS97-5261
HS4-2973	A98-980047 x Kottman
HS4-9864	HS99-4256 x Dilworth
HS5-3417	IA3023 x HS99-4045
HS5W-362	Dilworth x Kottman x PI 399.073
HS88-4988	Winchester x A83-271027
HS88-6786	Conrad(2) x PI 360.844
HS88-7363	Voris 311 x Resnik
HS93-135	HS88-6786 x HS88-4988
HS93-4118	IA 2007 x Dairyland DSR 304
HS97-5261	HS94-4530 x IA3004
HS99-4045	General(2) x HS93-135
HS99-4256	HS94-4530 x IA3004
IVR 1120	Provar x (AX56P64-1 x PI 191.110-1)
IRV4731	Amsoy x Wayne
K1599	
K03-3825	K1433 x HS93-4118
L15	Wayne (6) x Clark 63
L57-0034	Clark x Adams
L66L-154	Wayne x L57-0034
L73-4673	Corsoy x L66L-154(Williams sib)

IDENTIFICATION OF PARENT STRAINS 2013

Strain	Parentage
L77-994	Williams x PI 88.788
L85P-558	L73-4673 x Fayette
LD00-2817	Ina x Dwight
LD00-3296	LN95-5724 x Pana
LD00-4970	Maverick x Dwight
LD01-5907	Ina x IA3010
LD01-7323	LN95-5454 x Dwight
LD02-4485	M90-184111 x IA3010
LD02-5124W	A97-973002 x Loda
LD02-7222P	Macon x LS93-0375
LD03-6566	LN95-6446 x SS96-5637
LD03-7607	LN95-5817 x IA3010
LD04-11056	U96-2208 x Syngenta S38-T8
LD04-13296	Syngenta S32-Z3 x U98-311442
LD04-13265	Syngenta S32-Z3 x U98-205355
LD04-8782	Syngenta S32-Z3 x Dwight
LD05-16638	Dwight(3) x (Dowling x Loda)
LD05-16657	Dwight(3) x (Dowling x Loda)
LD05-30578a	LD00-3309(2) x [LD00-4970(2) x (Dowling x Loda)]
LD05-3230	Syngenta S25-J5 x LD00-3296
LD05-8517	LD00-2817 x Syngenta S38-T8
LD05-16066	
LD05-16094	SD01-76R[3] x (Dowling x Loda)
LD06-7620	
LD06-7648	A3023 x LD00- 3309
LDX08-210a	LD04-8782(3) x [LD03-6566 x ((LD02-4485 x (Ina x PI 200538))]
LDX08-214a	Dwight x [LD05-16638 x (Dwight x (Ina x PI 200538))]
LG00-3372	PI 561.319A x PI 574.477
LG00-6182	F6 PI 561.319A x PI 574.477
LG00-6925	PI427099 x PI445830
LG00-8298	PI561377 x PI574477
LG02-2412	PI091730-1 x PI227333
LG02-3733	LG94-1133 x LG92-1255
LG02-3996	PI189930 x PI290126B
LG03-1614	F5 LG96-1488 x LG97-7363
LG03-1672	F5 LG97-5454 x IA3010
LG03-2866	
LG03-2979	F6 Rend x LG95-258
LG03-3020	F6 LG96-1711 x LG92-4208
LG03-3780	
LG03-6296	
LG03-11572	PI592922
LG04-4866	
LG04-5187	
LG04-5190	
LG04-6000	HS93-4118 x LG97-9912
LG04-6005	HS93-4118 x LG97-9912
LG04-6400	HS93-4118 x LG97-9912
LG84-1291	PI 68522 x Hobbit
LG84-1269	F5 PI 227.333 x PI 91.730-1
LG85-3343	PI 361064 x PI 407710
LG86-3574	F5 PI 424.159B x PI 407.710

IDENTIFICATION OF PARENT STRAINS 2013

Strain	Parentage
LG87-1991	PI 189930 x PI 68600
LG88-2248	F6 PI 438.151 x A78-123018
LG88-2694	F6 Ripley x PI 370.059
LG88-3146	F6 PI 427.099 x PI 445.830
LG90-2179	F6 P I437.851A x Ripley
LG92-1255	LG84-1291 x A3127
LG92-4208	F6 LG84-1269 x Chamberlain
LG94-1128	LG85-3343 x LG87-1991
LG94-1133	LG85-3343 x LG87-1991
LG95-258	F5 LG86-3574 x LG88-2694
LG98-1445	
LG96-1488	F6 LG89-8665 x LG88-2696
LG96-1711	F6 LG88-3146 x LG88-2248
LG97-5474	F6 P6906-16 x P5096-03D
LG97-7012	LG89-1525 x A3322
LG97-7363	F6 LG90-2179 x LG88-3146
LG97-9912	
LN86-4668	Fayette x Hardin
LN90-4366	LN86-4668 x Resnik
LN95-5454	Jack x IA3003
LN95-5724	Jack x C1842
LN95-5817	Jack x C1842
LN95-6446	Jack x Iroquois
LS90-1920	Jack x Iroquois
LS93-0375	Asgrow A3935 x Pioneer P9402
LS98-0582	Northrup King S46-44 x Asgorw A4138
LS99-2235	
M0474C	White flowered off type in Mitchell
M0835	IVR 1120 x Calland
M30121	
M71-148	Clay x Evans
M84-93	M71-148 x Ozzie
M85-647	Ozzie x Fayette
M86-1973	
M90-162034	Burlison x M84-93
M90-184111	L85P-558 x M86-1973
M09-W053	HS0-3243 x Dennison
M91-116124	Faribault x Archer
M92-1525	M85-647 x Bell
M92-1571	MN9002CN
M95-255017	M92-1525 x A92-526007
M96-136086	M90-162034 x IA2021
M96-355009	M91-116124 x MN1301
M96-71481	Unknown
M97-136016	M90-162034 x IA2021
M97-357138	IA1006 x Surge
M98-308007	MN1601SP x IA20121
M99-274166	PI548379(OTTAWA x MANDARIN) x S19-90
M00-110002	MN0301 X MN0304
M00-351195	
M00-365181	Jim x LN94-14862-97-2
M01-241048	MN0301 x LG94-1128

IDENTIFICATION OF PARENT STRAINS 2013

Strain	Parentage
M01-242042	MN0302 x PI495831
M01-257028	PI437994 x PI567222
M01-257033	PI437994 x PI567222
M10-W083	Dennison x HS4-9864
M11-G016	HF04-0648 x HS5W-362
M11-G021	HF04-0648 x HS5W-362
M11-G023	HF04-0648 x HS5W-362
M02-115031	MN0301 X MN0304
MTC00-112-53-20	N94-7784 x MN0302
N34505R	RR Line
N83-1014	
N90-516	Hutcheson x N83-1014
N94-7784	Celeste x Crawford
N98-4445A	
ND88-800	Evans x Maple Amber
ND95-958	ND88-800 x Pioneer 9061
ND96-1006	Glacier x Council
ND96-1593	ND88-800 x Council
ND96-8929	ND88-800 x Council
ND02-971	Celeste x Crawford
ND01-1912	Pioneer 9092 x ND95-958
ND02-971	Celeste x Crawford
ND02-2019	Sargent x ND96-1006
ND03-4839	ND96-1593 x Pioneer 9061
ND03-5037	Barnes x SD96-33
ND03-5441	Barnes x MN9002CN
ND03-5672	Barnes x SD96-33
ND03-6795	ND96-8929 x AC Orford
ND03-7267	Walsh x MN9002CN
ND03-7538	Barnes x MN9002CN
ND03-7566	Barnes x MN9002CN
ND04-11329	(SD96-702 x Loda) x MN0902CN
ND04-12603	Sargent x MN0902CN
ND04-12689	Sargent x MN0902CN
ND88-800	Maple Amber x Evans
ND96-8929	ND88-800 x Council
Northrup King S1346	A55-5629-4 x PI 257.435
Northrup King S1492	Corsoy x Wayne
Northrup King S15-50	[Mack x Corsoy x Pride B216(2)] x (NKS1492 x Lee74)
Northrup King S19-90	Pride B216 x Pella
Northrup King S20-12	
Northrup King S20-20	
Northrup King S24-92	Asgrow A3127 x [(IVR 1120 x Calland) x (Mitchell x Cutler 71))
Northrup King S46-44	Asgrow A5474 x Asgrow A3127
OAC 00-01	OAC Bayfield x (OT89-16 x OAC Shire)
OAC 00-17	A92-525014 x OAC Vision
OAC 05-17	Rcat 99-01 x OAC 00-01
OAC 05-21	OT99-2 x OAC00-17
ORC9002	A81-151026 x Elgin
OT89-16	AC Proteus
OT99-2	{(Bravor x RAGT86L579) x AC Harmony}
Pioneer 92B12	Unknown

IDENTIFICATION OF PARENT STRAINS 2013

Strain	Parentage
Pioneer 93B82	Unknown
Pioneer P1677	Rampage x Corsoy(2)
Pioneer P9061	Wells x Pioneer 1677
Pioneer P9092	Pioneer 9061 x NKS15-50
Pioneer P9071	Pioneer P9061 x Pioneer P9181
Pioneer P9151	Unknown
Pioneer P9181	Beeson x Williams
Pioneer P9233	CM293 x ST2250
Pioneer P9254	Unknown
Pioneer P9273	Pioneer 2981 x Asgrow A3127
Pioneer P9281	Hark x (Corsoy x Calland)
Pioneer P9303	Pioneer P2981 x M0835
Pioneer P9321	
Pioneer P9402	(L77-994 x Asgrow A3127) x L77-994
Pride B216	Corsoy x Wayne
R01-52F	
R02-6268F	
S04-2091RR	
S05-11482	
S06-12439	
S25-J5	unknown
S88-1218	
S91-5371-17	Williams(2) x (Forrest x PI 437.654)
S92-2716	Williams(2) x (Forrest x PI 437.654)
S92-1069	Manokin x Hartwig
S99-2281	N90-516 x S92-1069
S03-W4	
S04-8882	S99-2281 x LG97-7012
SD96-33	IA2008 x Hendricks
SD96-153-3	Surge x Hendricks
SD96-702	ORC9002 x Ozzie
SD98-76342	
SD02-4-59	M96-71481 x N984445A
SD02-833	Surge x Pioneer P9151
SD02-906	
SD02-911	Unknown
SD03-234	SDX98-75-11-2 x SDX98-82-9-2
SD00-1501	Surge x C1907
SD00-167	
SD00-632	
SD00-1501	Parker x C1907
SDX98-75-11-2	C9144 x M93-141-16-3
SDX98-82-9-2	C1944 x U97-2519
SDX98-76192	Pioneer P9071 x C1944
SDX00R-026-42	SD1081RR X IA1008
SDX02FA-3A-10	
SDX02FA-5-4	A02-381100-1539 x (SD98-76342 x N98-4445A)
SDX02FA-5-5 BR	A02-381100 x [SD98-76342 x N98-4445A]
Soygenetics F35170C	
Soygenetics F36150C	
Soygenetics 96-2205	
SS03-5354	LN95-6446 x S92-2716

IDENTIFICATION OF PARENT STRAINS 2013

Strain	Parentage
SS96-5637	S88-1218 x S91-5371-17
ST2250	
Syngenta 03JR101016	
Syngenta 03JR101916	
Syngenta 03JR313108	
Syngenta 03JR321086	
Syngenta 03JR321088	
Syngenta 04KL015644	
Syngenta 04KL108370	
Syngenta 04RM820808	
Syngenta 05JR200591	
Syngenta 05RM926756	
Syngenta S10-F2	
Syngenta S16-Y6	
Syngenta S25-J5	
Syngenta S38-T8	
U94-2306	Holt x Dairyland DSR 304
U96-2208	Colfax x A91-701035
U97-2519	MSBP3F6
U97-3114	MSBP3F6
U97-207904	
U98-205355	A94-773014 x Bell
U98-307917	U94-2306 x A92-525014
U98-311442	A94-773014 x Bell
U99-009019	MSBP6S4
U01-190311	NE1900 x A97-871009
U01-310156	UP3YC1S3
U01-390489	IA1008 x NE3001
U02-242055	NE1900 x Pioneer 93B82
U02-341563	NE3400 x Pioneer 93B82
U03-100612	U99-009019 x P92B12
U03-200317	U99-009019 x P92B12
U03-300134	NE3202 x NE2802
U03-400435	P92B12 x U97-207904
U03-130145R	AAK 2501 MOR x U99-507030R
U06-300952	U98-307917 x U01-310156
U07-135377R	
U07-135478R	
U07-135601R	
U07-236486R	
U07-237991R	
U07-338254R	
U07-439042R	
U08-932024R	
XB27U01	unknown

2013 DISEASE, SHATTERING, AND DESCRIPTIVE DATA

Location		Tests Conducted By:	Tests	UT	PT	UT RR
IA	Humboldt	W. Fehr / K. Scholbrock	Fe Chlorosis	I-III		
IL	Valmeyer	C. Schmidt	SDS	III-IV		III, IV*
	Urbana	T. Cary	SCN HG Types Score	00-IV	0-III	0-III
IN	Lafayette	T. Hughes / T. Fleury	PR Evaluations	00-IV	0-III	0-III, IV*
	Lafayette	W. Crochet	Descriptive Code	00-IV	0-III	0-III, IV*
	Lafayette	W. Crochet	Green Stem			IV
	Wanatah	W. Crochet	Green Stem	I-III		I-III
KS	Manhattan	W. Schapaugh Jr.	Shattering Score	00-IV	0-III	0-IV*
MN	Danvers	J. H. Orf	Fe Chlorosis	00-II	0-I	I-II
OH	Ohio State Univ.	Anne Dorrance	PR Evaluations	00-IV	0-III	0-III, IV*
	South Charelston	L. McHale	Green Stem	III	III	
QUE	St. Mathieu	L. O'Donoughue	Green Stem	00-0	0	
	St. Germain	J. Aulcair	Green Stem			0
TN	Jackson	P. Arelli / L. Fritz	Green Stem	IV		
	Jackson	P. Arelli / L. Fritz	Shattering	IV		

2013 UNIFORM AND PRELIMINARY TEST LOCATIONS

Location		Tests Conducted By:	Uniform Tests						Preliminary Tests				Uniform Tests RR				
			00	0	I	II	III	IV	0	I	II	III	0	I	II	III	IV*
IA	Eldora	W. Fehr			X	X											
	Charles City	W. Fehr			X												
	Carlisle	W. Fehr				X	X										
	Greenfield	W. Fehr					X										
	Kanawha	S. Cianzio			X					X							
	Boone	S. Cianzio				X					X						
	Crawfordsville	S. Cianzio					X					X					
IL	Dekalb	B. Diers/T. Cary				X											
	Arthur	B. Diers/T. Cary					**X**										
	Urbana	B. Diers/T. Cary				X	**X**	**X**			**X**	**X**			**X**	**X**	**X**
	Brownstown	B. Diers/T. Cary						**X**									**X**
IN	Lafayette	W. Crochet			X	X	X	X		X	X	X		X	X	X	X
	Wanatah	W. Crochet			X	X	X							X	X	X	
	Butlerville	W. Crochet					X	X								X	X
KS	Manhattan	W. Schapaugh Jr.										X					
	Ottawa	W. Schapaugh Jr.					X	X				X					
	Ashland	W. Schapaugh Jr.					**X**	**X**									
MI	Saginaw Co.	D. Wang / J. Boyse			X									X			
	Ingham Co.	D. Wang / J. Boyse			X	X				X	X			X	X		
	Lenawee Co.	D. Wang / J. Boyse				X									X		
MN	Crookston	J. Orf	**X**														
	Lamberton	J. Orf			**X**	**X**				**X**				**X**	**X**		
	Moorhead	J. Orf	**X**														
	Morris	J. Orf		**X**					**X**				**X**				
	Rosemount	J. Orf		**X**					**X**				**X**				
	Shelly	J. Orf	**X**														
	Stewart	J. Orf				**X**											
	Waseca	J. Orf			**X**	**X**				**X**				**X**	**X**		
	Westbrook	J. Orf													**X**		
MO	Columbia	A. Scaboo					**X**	**X**				**X**				**X**	**X**
	Portageville (Clay)	G. Shannon														X	X
	Portageville (Loam)	G. Shannon					X	X								X	X

2013 UNIFORM AND PRELIMINARY TEST LOCATIONS

Location		Tests Conducted By:	Uniform Tests						Preliminary Tests				Uniform Tests RR				
			00	0	I	II	III	IV	0	I	II	III	0	I	II	III	IV*
NE	Meade	G. Graef / L.Korte			X	X				X	X			X	**X**		
	Cotesfield	G. Graef / L.Korte			X	X				X	**X**			X	**X**		
	Wymore	G. Graef / L.Korte					**X**					**X**				**X**	
	Phillips	G. Graef / L.Korte			X	X				X	**X**						
	Goehner	G. Graef / L.Korte					**X**					**X**				**X**	
ND	Casselton	T. Helms	**X**	**X**					**X**				**X**				
	Northwood	T. Helms	X														
OH	Hoytville	L. McHale/McIntyre				X	X				X	X					
	Wooster	L. McHale/McIntyre				X					X						
	St. Charleston	L. McHale					X					X					
ONT	Chatham	I. Rajcan/D. Fischer				**X**					**X**						
	Elora	I. Rajcan	**X**														
	Ottawa	E. Cober	**X**	**X**													
	St. Pauls	I. Rajcan		**X**					**X**								
	Woodstock	I. Rajcan		**X**					**X**								
QUE	St. Mathieu de Beloeil	L. O'Donoughue	**X**	**X**					**X**								
	Saint Hyacinthe	J. Auclair			X					**X**				**X**			
	La Pocatiere	J. Aulcair	X														
	St. Germain de -Grantham	J. Aulcair											**X**				
SD	Beresford	G. Jiang				X					X						
	Watertown	G. Jiang		X	X				X	X							
	Volga	G. Jiang		**X**	X	**X**			**X**	**X**	**X**						
TN	Jackson	P. Arelli						**X**									
X	Location With Agronomic Data		9	9	15	20	16	9	8	11	12	10	4	9	10	9	7
X	Location With Seed Composition Data		7	8	2	5	6	5	7	4	4	4	4	3	5	4	3
*	Perliminary Test																

Uniform Test 00, 2013

Ent.	Strain	Parentage	Seed Source	Previous Testing	Gen. Comp.	Unique Traits
1.	MN0071 (00)	Harmony x OT92-8	Orf	**13**	F5	Rps1
2.	Cavalier	Sargent x ND96-1006	Helms	**8**	F4	Rps6
3.	MN0095 (0)	M92-270029 x M93-313185	Orf	**5**	F5	Rps1
4.	M06-320039	MN0201 x MN1105SP	Orf	1	F5	PRO
5.	M06-338016	ND02-971 x MN0071	Orf	1	F5	OIL
6.	M07-260009	NE1900 x MN0107	Orf	new	F5	
7.	M07-260028	NE1900 x MN0107	Orf	new	F5	
8.	M07-396100	Sheyenne x M01-257028	Orf	new	F5	Slow Wilt
9.	ND09-4592	ND03-7538 x [ND01-1912 x M95-255017]	Helms	new	F4	Rps1c, 2% hard seed
10.	ND09-5604	ND03-5672 x Hamlin	Helms	new	F4	Rps6, 9% hard seed
11.	ND09-5706	ND03-7267 x Sheyenne	Helms	1	F4	Rps6, 6% hard seed
12.	ND10-2763	Sheyenne x ND03-5441	Helms	new	F4	Rps1c
13.	ND10-2769	Sheyenne x ND03-5441	Helms	new	F4	Rps1c
14.	ND10-2993	ND04-11329 x ND03-7566	Helms	new	F4	SCN, 3% hard seed
15.	ND10-3401	ND03-7566 x [ND03-5441 x LaMoure(2)]	Helms	new	F4	Rps1c
16.	ND10-3417	ND03-7566 x [ND03-5441 x LaMoure(2)]	Helms	new	F4	Rps1c, 4% hard seed
17.	ND10-3419	ND03-7566 x [ND03-5441 x LaMoure(2)]	Helms	new	F4	Rps1c
18.	ND10-3427	ND03-7566 x [ND03-5441 x LaMoure(2)]	Helms	new	F4	Rps1c
19.	ND10-3446	ND03-7566 x [ND03-5441 x LaMoure(2)]	Helms	new	F4	Rps1c
20.	ND10-3449	ND03-7566 x [ND03-5441 x LaMoure(2)]	Helms	new	F4	Rps1c
21.	ND10-3473	ND03-7566 x [ND03-5441 x LaMoure(2)]	Helms	new	F4	Rps1c, 5% hard seed
22.	ND10-3495	ND03-7566 x [ND03-5441 x LaMoure(2)]	Helms	new	F4	Rps1c, 6% hard seed
23.	ND10-4423	ND03-7566 x [ND03-5441 x LaMoure(2)]	Helms	new	F4	Rps1c, 1% hard seed
24.	ND10-4839	ND03-5441 x ND03-6793	Helms	new	F4	Rps6
25.	ND10-4865	ND04-12603 x ND03-5037	Helms	new	F4	Rps6, 6% hard seed
26.	OAC 11-13C	OAC Prodigy x S03-W4	Rajcan		F5	

UNIFORM TEST 00, 2013

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	Chlorosis Score Danvers MN	Shattering Score Manhattan KS	Green Stem Score St. Mathieu QUE
MN0071 (00)	PTBDYBrI	3.5	2.0	1.0
Cavalier	P+WTBDYYI	3.5	2.0	2.0
MN0095 (0)	PGBDYIbLI	2.9	2.0	1.3
M06-320039	PTBDYYI	4.0	2.0	3.3
M06-338016	PGBDYBf+YI	3.8	2.0	1.0
M07-260009	P+WGTDYYI	3.6	1.0	1.0
M07-260028	P+WGTDYYI	3.8	2.0	1.7
M07-396100	PTBIYBr+YI	3.8	2.0	3.0
ND09-4592	PGTDYYI	3.9	2.0	1.7
ND09-5604	P+WTBDYBLI	3.9	1.0	1.0
ND09-5706	WTBDYYI	3.3	2.0	2.0
ND10-2763	WGTDYYI	3.9	2.0	2.0
ND10-2769	PGB+TDYYI	3.9	2.0	2.0
ND10-2993	WGTDYLbfI	3.6	2.0	1.7
ND10-3401	WGTDYBfI	3.8	2.0	2.0
ND10-3417	WGTDYLbfI	3.5	1.0	2.3
ND10-3419	WGTDYLbfI	3.3	2.0	2.0
ND10-3427	WGTDYLbfI	3.5	1.0	1.7
ND10-3446	WGTDYLbfI	3.5	1.0	2.0
ND10-3449	PGBDYYI	4.0	2.0	2.3
ND10-3473	WGTDYLbfI	3.1	1.0	2.0
ND10-3495	WGTDYLbfI	3.3	1.0	2.3
ND10-4423	PTTDYBrI	3.6	2.0	2.3
ND10-4839	W+PGBDYYI	3.9	1.0	1.3
ND10-4865	PTBDYLbfI	4.0	1.0	2.0
OAC 11-13C	PTBIYYI	4.5	2.0	2.7

UNIFORM TEST 00, 2013

REGIONAL SUMMARY

					Plant	Seed	Seed	Composition	
	Yield	Rank	Maturity	Lodging	Height	Quality	Size	Protein	Oil
No. of Tests	9	9	9	8	7	7	8	7	7
Strain	bu/a	No.	Date	Score	In	Score	g/100	%	%
MN0071 (00)	44.1	22	9/11	1.2	25	1.8	15.1	34.0	19.1
Cavalier	44.4	21	1.8	1.2	25	1.7	16.8	34.9	17.9
MN0095 (0)	49.5	13	5.4	1.2	26	1.4	13.2	34.5	18.6
M06-320039	46.2	19	6.0	1.3	30	1.7	14.4	40.3	15.9
M06-338016	52.0	4	5.7	1.4	29	2.4	15.2	33.6	18.9
M07-260009	52.3	3	5.9	1.3	30	1.7	15.4	35.1	17.9
M07-260028	51.9	5	6.4	1.2	27	1.5	16.7	36.8	16.8
M07-396100	45.9	20	4.9	1.2	25	1.9	15.9	36.0	18.0
ND09-4592	48.1	16	5.3	1.2	25	1.5	13.3	35.0	18.5
ND09-5604	51.9	5	4.1	1.2	24	1.6	15.9	34.7	18.7
ND09-5706	49.0	14	0.9	1.1	24	2.2	14.7	34.3	18.6
ND10-2763	50.6	8	8.3	1.1	24	2.7	15.8	33.6	19.1
ND10-2769	49.0	14	9.2	1.1	26	1.7	13.4	34.3	18.5
ND10-2993	41.8	26	4.9	1.2	25	1.1	12.7	34.1	19.0
ND10-3401	42.0	25	5.1	1.2	22	1.9	13.4	34.7	18.6
ND10-3417	50.1	10	10.3	1.2	26	1.8	14.3	35.2	18.5
ND10-3419	50.9	7	10.6	1.1	26	1.9	14.5	35.2	18.5
ND10-3427	47.5	17	10.0	1.2	25	1.9	14.4	34.9	18.5
ND10-3446	49.9	11	9.9	1.1	26	1.6	14.7	35.1	18.6
ND10-3449	56.1	1	12.0	1.2	29	1.9	16.1	33.2	18.9
ND10-3473	49.9	11	11.4	1.2	28	2.2	14.9	35.5	18.3
ND10-3495	47.6	17	10.1	1.2	27	1.6	15.0	35.0	18.4
ND10-4423	44.0	23	1.9	1.2	26	1.7	14.9	35.2	18.9
ND10-4839	43.1	24	4.8	1.2	25	1.7	13.6	32.9	19.5
ND10-4865	50.1	8	7.0	1.3	27	1.6	16.1	34.5	19.2
OAC 11-13C	53.5	2	8.9	1.3	30	1.5	16.6	34.8	18.7

105.8 Days After Planting

UNIFORM TEST 00, 2013

2012-2013 2-YEAR MEAN

Strain	Yield	Rank	Maturity	Lodging	Plant Height	Seed Quality	Seed Size	Composition	
								Protein	Oil
No. of Tests	16	16	17	15	16	15	17	15	15
	bu/a	No.	Date	Score	In.	Score	g/100	%	%
MN0071 (00)	41.4	6	9/8	1.1	24	1.7	15.6	33.5	18.5
Cavalier	42.6	5	2.4	1.1	23	2.0	17.3	33.9	17.7
MN0095 (0)	45.8	3	5.7	1.1	24	1.6	13.5	33.5	18.6
M06-320039	43.9	4	5.3	1.3	30	1.7	14.5	39.4	15.8
M06-338016	48.6	1	6.1	1.2	28	2.4	15.7	32.6	18.9
ND09-5706	47.4	2	4.2	1.1	25	1.9	15.0	32.9	18.5

106.9 Days After Planting

UNIFORM TEST 00, 2013

YIELD (bu/a)

Strain	Mean 9 Tests	Crookston MN	Moorhead MN	Shelly MN	Casselton ND	Northwood ND	Elora ONT	Ottawa ONT	La Pocatiere Que.	St. Mathieu de-Beloeil Que.
MN0071 (00)	44.1	40.0	40.9	25.9	61.9	26.5	33.9	50.8	56.3	60.8
Cavalier	44.4	37.8	40.2	24.8	58.2	34.5	37.8	44.5	53.4	68.1
MN0095 (0)	49.5	48.3	37.1	35.2	61.2	39.8	33.6	56.7	56.3	77.0
M06-320039	46.2	42.6	38.5	35.3	61.7	38.4	39.8	45.5	51.4	63.0
M06-338016	52.0	48.4	50.3	37.3	48.0	40.6	44.8	55.7	62.8	79.7
M07-260009	52.3	50.1	53.4	31.6	50.9	41.3	40.7	53.5	66.0	82.9
M07-260028	51.9	48.7	44.4	34.5	58.8	44.5	41.8	56.1	56.5	81.5
M07-396100	45.9	42.5	37.4	32.3	57.7	34.0	33.8	47.1	52.6	75.3
ND09-4592	48.1	48.8	46.8	27.1	60.5	34.2	32.2	54.1	54.8	74.4
ND09-5604	51.9	40.7	44.6	36.5	60.1	36.5	42.3	55.5	59.9	90.6
ND09-5706	49.0	51.9	45.6	27.6	63.4	38.0	32.8	54.5	53.4	74.2
ND10-2763	50.6	53.3	47.5	28.9	62.8	36.7	33.1	55.0	55.3	82.4
ND10-2769	49.0	47.6	42.6	31.6	51.1	40.5	33.6	54.9	58.4	81.1
ND10-2993	41.8	45.6	36.4	25.7	49.8	32.9	22.5	50.1	47.7	65.8
ND10-3401	42.0	44.9	41.1	23.1	59.4	35.6	23.0	48.0	37.8	65.1
ND10-3417	50.1	51.2	48.2	32.3	64.5	42.1	32.0	53.3	49.3	78.1
ND10-3419	50.9	51.1	50.0	34.5	59.4	43.8	35.4	51.9	52.6	79.5
ND10-3427	47.5	45.7	43.4	32.4	59.0	38.1	30.1	55.8	49.2	74.1
ND10-3446	49.9	50.9	53.5	31.2	54.4	39.2	33.2	54.3	50.0	82.5
ND10-3449	56.1	53.5	53.5	39.7	59.2	48.6	36.0	58.7	67.2	88.1
ND10-3473	49.9	45.7	53.2	33.6	59.4	43.6	32.4	52.5	50.5	77.9
ND10-3495	47.6	50.2	42.1	32.9	46.3	43.0	37.3	50.4	47.3	78.6
ND10-4423	44.0	37.2	42.8	22.1	58.5	36.3	28.9	48.2	44.8	77.4
ND10-4839	43.1	41.5	42.2	25.1	37.2	37.0	29.1	53.6	51.3	71.2
ND10-4865	50.1	44.6	40.3	29.2	61.8	39.6	42.2	54.4	58.1	80.9
OAC 11-13C	53.5	50.1	48.2	33.0	57.2	41.8	50.5	53.9	63.0	84.2
Location Mean		46.7	44.8	30.9	57.0	38.7	35.1	52.7	54.1	76.7
C.V. (%)		12.7	9.4	13.2	14.3	9.4	10.4	5.5	12.0	6.4
L.S.D. (5%)		9.7	6.9	6.6	13.3	6.1	6.2	5.7	3.6	8.1
Row Sp. (in.)		30	30	30	30	30	14	17.7	7	7
Rows/Plot		4	4	4	4	4	4	4	8	5
Reps		3	3	3	3	3	3	3	3	3

UNIFORM TEST 00, 2013

YIELD RANK

Strain	Yield Rank	Crookston MN	Moorhead MN	Shelly MN	Casselton ND	Northwood ND	Elora ONT	Ottawa ONT	La Pocatiere Que.	St. Mathieu de-Beloeil Que.
MN0071 (00)	22	24	20	21	4	26	12	19	10	26
Cavalier	21	25	22	24	17	22	8	26	13	22
MN0095 (0)	13	13	25	5	7	11	14	2	9	16
M06-320039	19	20	23	4	6	14	7	25	17	25
M06-338016	4	12	5	2	24	9	2	5	4	10
M07-260009	3	8	3	14	22	8	6	14	2	4
M07-260028	5	11	13	6	15	2	5	3	8	7
M07-396100	20	21	24	12	18	24	13	24	16	17
ND09-4592	16	10	10	20	8	23	20	12	12	18
ND09-5604	5	23	12	3	9	19	3	6	5	1
ND09-5706	14	3	11	19	2	16	18	10	14	19
ND10-2763	8	2	9	18	3	18	17	8	11	6
ND10-2769	14	14	16	14	21	10	15	7	6	8
ND10-2993	26	17	26	22	23	25	26	21	23	23
ND10-3401	25	18	19	25	10	21	25	23	26	24
ND10-3417	10	4	7	12	1	6	21	16	21	13
ND10-3419	7	5	6	6	10	3	11	18	15	11
ND10-3427	17	15	14	11	14	15	22	4	22	20
ND10-3446	11	6	1	16	20	13	16	11	20	5
ND10-3449	1	1	1	1	13	1	10	1	1	2
ND10-3473	11	15	4	8	10	4	19	17	19	14
ND10-3495	17	7	18	10	25	5	9	20	24	12
ND10-4423	23	26	15	26	16	20	24	22	25	15
ND10-4839	24	22	17	23	26	17	23	15	18	21
ND10-4865	8	19	21	17	5	12	4	9	7	9
OAC 11-13C	2	8	7	9	19	7	1	13	3	3

UNIFORM TEST 00, 2013

MATURITY (date)

Strain	Mean 9 Tests	Crookston MN	Moorhead MN	Shelly MN	Casselton ND	Northwood ND	Elora ONT	Ottawa ONT	La Pocatiere Que.	St. Mathieu de-Beloeil Que.
MN0071 (00)	9/11	9/4	9/15	9/9	9/13	9/3	9/24	8/27	10/3	9/4
Cavalier	1.8	4	3	2	0	-6	1	6	4	2
MN0095 (0)	5.4	6	5	4	0	3	7	7	10	7
M06-320039	6.0	10	7	6	1	0	8	8	8	6
M06-338016	5.7	6	7	4	3	-4	9	6	15	5
M07-260009	5.9	8	8	4	1	-1	8	7	12	6
M07-260028	6.4	14	9	5	1	-2	6	7	13	5
M07-396100	4.9	6	9	3	-2	-1	6	8	10	5
ND09-4592	5.3	8	7	4	2	-2	7	8	7	7
ND09-5604	4.1	6	7	3	1	-4	3	7	5	9
ND09-5706	0.9	1	3	0	-3	-5	1	6	2	3
ND10-2763	8.3	16	8	5	5	1	6	9	15	10
ND10-2769	9.2	13	10	9	6	6	7	11	10	11
ND10-2993	4.9	10	8	6	-2	-6	8	9	7	4
ND10-3401	5.1	5	5	2	0	-5	9	8	17	5
ND10-3417	10.3	10	10	13	5	6	7	13	16	13
ND10-3419	10.6	14	10	15	5	2	9	11	16	13
ND10-3427	10.0	12	9	10	7	2	10	11	15	14
ND10-3446	9.9	12	11	12	7	1	7	11	16	12
ND10-3449	12.0	15	14	14	7	7	8	14	14	15
ND10-3473	11.4	17	11	11	7	4	16	12	16	9
ND10-3495	10.1	16	10	12	4	4	8	10	17	10
ND10-4423	1.9	6	6	0	-3	-7	1	4	1	9
ND10-4839	4.8	10	8	5	3	-3	1	7	4	8
ND10-4865	7.0	13	8	7	3	-2	6	9	9	10
OAC 11-13C	8.9	19	11	7	2	0	9	11	12	9
Date Planted	5/28	5/28	6/7	6/6	5/13	5/23	6/6	5/14	6/7	5/28
Days to Mature	106	99	100	95	123	103	110	105	118	99

UNIFORM TEST 00, 2013

LODGING (score)

Strain	Mean 8 Tests	Crookston MN	Moorhead MN	Shelly MN	Casselton ND	Northwood ND	Elora ONT	Ottawa ONT	La Pocatiere Que.	St. Mathieu de-Beloeil Que.
MN0071 (00)	1.2	2.0	1.0	1.0	1.0	1.0	1.4	1.1		1.0
Cavalier	1.2	2.0	1.0	1.0	1.0	1.0	1.6	1.0		1.0
MN0095 (0)	1.2	2.0	1.0	1.0	1.0	1.0	1.4	1.2		1.0
M06-320039	1.3	2.0	1.0	1.0	1.0	1.0	2.6	1.0		1.0
M06-338016	1.4	2.0	1.0	1.0	1.3	1.0	3.1	1.1		1.0
M07-260009	1.3	2.0	1.0	1.0	1.0	1.0	2.2	1.0		1.0
M07-260028	1.2	2.0	1.0	1.0	1.0	1.0	1.8	1.0		1.0
M07-396100	1.2	2.0	1.0	1.0	1.3	1.0	1.3	1.0		1.0
ND09-4592	1.2	2.0	1.0	1.0	1.0	1.0	1.3	1.0		1.0
ND09-5604	1.2	2.0	1.0	1.0	1.0	1.0	1.8	1.0		1.0
ND09-5706	1.1	2.0	1.0	1.0	1.0	1.0	1.1	1.0		1.0
ND10-2763	1.1	2.0	1.0	1.0	1.0	1.0	1.1	1.0		1.0
ND10-2769	1.1	2.0	1.0	1.0	1.0	1.0	1.1	1.0		1.0
ND10-2993	1.2	2.0	1.0	1.0	1.0	1.0	1.2	1.0		1.0
ND10-3401	1.2	2.0	1.0	1.0	1.0	1.0	1.2	1.0		1.0
ND10-3417	1.2	2.0	1.0	1.0	1.0	1.0	1.3	1.0		1.0
ND10-3419	1.1	2.0	1.0	1.0	1.0	1.0	1.0	1.0		1.0
ND10-3427	1.2	2.0	1.0	1.0	1.0	1.0	1.4	1.0		1.0
ND10-3446	1.1	2.0	1.0	1.0	1.0	1.0	1.0	1.1		1.0
ND10-3449	1.2	2.0	1.0	1.0	1.0	1.0	1.8	1.0		1.0
ND10-3473	1.2	2.0	1.0	1.0	1.0	1.0	1.8	1.0		1.0
ND10-3495	1.2	2.0	1.0	1.0	1.0	1.0	1.5	1.0		1.0
ND10-4423	1.2	2.0	1.0	1.0	1.0	1.0	1.5	1.0		1.0
ND10-4839	1.2	2.0	1.0	1.0	1.0	1.0	1.2	1.0		1.0
ND10-4865	1.3	2.0	1.0	1.0	1.0	1.0	2.3	1.0		1.0
OAC 11-13C	1.3	2.0	1.0	1.0	1.0	1.0	1.7	1.7		1.0

UNIFORM TEST 00, 2013

PLANT HEIGHT (inches)

Strain	Mean 7 Tests	Crookston MN	Moorhead MN	Shelly MN	Casselton ND	Northwood ND	Elora ONT	Ottawa ONT	La Pocatiere Que.	St. Mathieu de-Beloeil Que.
MN0071 (00)	25		18	18	23		33	28	34	22
Cavalier	25		19	17	24		34	26	31	21
MN0095 (0)	26		20	19	30		29	27	34	20
M06-320039	30		28	26	30		36	31	33	24
M06-338016	29		26	24	28		37	29	37	24
M07-260009	30		27	21	30		37	31	38	26
M07-260028	27		25	20	30		32	28	33	23
M07-396100	25		21	19	27		30	26	31	21
ND09-4592	25		24	18	27		30	26	30	20
ND09-5604	24		22	20	26		28	25	30	21
ND09-5706	24		21	19	26		27	24	30	19
ND10-2763	24		21	18	28		27	25	31	19
ND10-2769	26		22	18	30		30	28	28	23
ND10-2993	25		22	18	28		27	27	32	20
ND10-3401	22		20	15	22		26	23	28	18
ND10-3417	26		24	20	30		28	26	30	20
ND10-3419	26		22	19	30		28	28	31	21
ND10-3427	25		21	18	30		28	28	31	19
ND10-3446	26		27	18	27		30	28	30	20
ND10-3449	29		29	23	35		30	31	35	23
ND10-3473	28		26	23	30		29	30	32	23
ND10-3495	27		26	20	29		29	30	32	22
ND10-4423	26		24	18	31		29	28	30	22
ND10-4839	25		20	15	30		27	29	33	20
ND10-4865	27		23	18	30		34	27	32	22
OAC 11-13C	30		27	22	28		38	32	37	26

UNIFORM TEST 00, 2013

SEED QUALITY (score)

Strain	Mean 7 Tests	Crookston MN	Moorhead MN	Shelly MN	Casselton ND	Northwood ND	Elora ONT	Ottawa ONT	La Pocatiere Que.	St. Mathieu de-Beloeil Que.
MN0071 (00)	1.8	2.0	3.0	2.0	1.0		1.5	1.3		1.7
Cavalier	1.7	2.0	2.0	2.0	1.0		1.5	1.7		2.0
MN0095 (0)	1.4	2.0	1.0	2.0	1.0		1.5	1.3		1.3
M06-320039	1.7	2.0	2.0	1.0	2.0		1.5	1.7		2.0
M06-338016	2.4	3.0	2.0	2.0	4.0		1.5	1.4		3.0
M07-260009	1.7	1.0	1.0	2.0	4.0		1.5	1.0		1.3
M07-260028	1.5	2.0	1.0	2.0	1.0		1.5	1.1		1.7
M07-396100	1.9	2.0	1.0	2.0	3.0		1.5	1.8		2.0
ND09-4592	1.5	1.0	2.0	2.0	1.0		1.5	1.3		1.8
ND09-5604	1.6	1.0	2.0	2.0	1.0		1.5	1.7		2.0
ND09-5706	2.2	2.0	3.0	3.0	1.0		2.0	2.5		2.0
ND10-2763	2.7	3.0	3.0	2.0	4.0		2.5	1.6		3.0
ND10-2769	1.7	2.0	1.0	2.0	2.0		1.5	1.3		2.0
ND10-2993	1.1	1.0	1.0	1.0	1.0		1.5	0.6		1.7
ND10-3401	1.9	2.0	1.0	2.0	1.0		2.5	1.8		2.7
ND10-3417	1.8	2.0	1.0	2.0	2.0		2.0	1.2		2.7
ND10-3419	1.9	1.0	1.0	3.0	2.0		2.0	1.2		3.0
ND10-3427	1.9	2.0	2.0	2.0	2.0		1.5	1.3		2.7
ND10-3446	1.6	1.0	1.0	1.0	3.0		2.0	1.1		2.3
ND10-3449	1.9	2.0	2.0	3.0	1.0		1.5	1.5		2.3
ND10-3473	2.2	3.0	1.0	2.0	4.0		2.5	0.9		2.3
ND10-3495	1.6	2.0	1.0	1.0	1.0		2.5	1.5		2.3
ND10-4423	1.7	2.0	1.0	3.0	1.0		1.5	1.2		2.3
ND10-4839	1.7	1.0	2.0	2.0	2.0		1.5	1.3		2.0
ND10-4865	1.6	1.0	2.0	2.0	1.0		1.5	0.8		3.0
OAC 11-13C	1.5	1.0	2.0	2.0	1.0		1.5	1.5		1.3

UNIFORM TEST 00, 2013

SEED SIZE (g/100)

Strain	Mean 8 Tests	Crookston MN	Moorhead MN	Shelly MN	Casselton ND	Northwood ND	Elora ONT	Ottawa ONT	La Pocatiere Que.	St. Mathieu de-Beloeil Que.
MN0071 (00)	15.1	12.1	13.2	13.4	18.5		15.4	16.6	14.0	17.3
Cavalier	16.8	12.0	14.7	15.5	21.0		18.4	17.4	16.5	18.9
MN0095 (0)	13.2	9.8	12.8	13.4	15.9		14.0	13.4	11.0	15.3
M06-320039	14.4	11.8	13.2	15.0	15.6		15.0	15.3	12.0	17.3
M06-338016	15.2	11.9	15.8	15.0	17.5		14.8	16.3	12.1	18.5
M07-260009	15.4	12.6	16.3	16.4	15.8		15.7	15.8	13.3	17.5
M07-260028	16.7	13.4	17.9	17.3	17.1		17.4	17.7	13.8	19.3
M07-396100	15.9	11.7	16.0	15.4	17.2		17.4	16.6	13.6	19.4
ND09-4592	13.3	11.2	12.7	12.9	16.6		14.2	13.0	10.7	15.3
ND09-5604	15.9	11.7	15.5	15.4	18.1		15.6	17.4	12.9	20.3
ND09-5706	14.7	12.1	14.0	13.8	15.8		15.7	16.0	12.7	17.8
ND10-2763	15.8	13.9	14.7	15.1	16.5		15.5	16.5	14.6	19.2
ND10-2769	13.4	11.1	13.1	14.3	14.6		12.7	14.0	10.6	16.9
ND10-2993	12.7	9.6	12.8	13.2	13.3		13.9	14.2	10.7	14.2
ND10-3401	13.4	12.0	11.5	13.1	16.4		13.5	14.3	10.8	15.6
ND10-3417	14.3	11.1	13.6	14.1	15.7		14.4	15.3	12.6	17.7
ND10-3419	14.5	12.3	13.1	14.5	15.6		14.6	15.0	12.4	18.2
ND10-3427	14.4	11.3	13.3	13.9	16.1		14.3	15.3	12.6	18.3
ND10-3446	14.7	11.9	13.2	14.2	17.0		14.9	15.6	12.8	17.8
ND10-3449	16.1	18.1	15.0	16.6	16.9		14.7	15.8	13.3	18.6
ND10-3473	14.9	14.5	14.0	14.5	16.1		15.7	14.8	12.7	17.1
ND10-3495	15.0	15.2	13.8	14.9	14.5		15.9	15.3	13.2	17.1
ND10-4423	14.9	13.0	14.5	14.0	15.5		14.5	15.5	13.9	17.9
ND10-4839	13.6	12.2	14.2	13.4	14.6		12.8	14.6	10.7	16.6
ND10-4865	16.1	14.5	16.5	15.1	16.1		15.9	17.7	12.7	20.2
OAC 11-13C	16.6	14.6	17.0	17.3	17.6		17.2	15.0	15.2	18.8

UNIFORM TEST 00, 2013

PROTEIN (%)

Strain	Mean 7 Tests	Crookston MN	Moorehead MN	Shelly MN	Casselton ND	Elora ONT	Ottawa ONT	St. Mathieu de-Beloeil Que.
MN0071 (00)	34.0	34.8	32.5	33.0	32.5	37.0	34.7	33.8
Cavalier	34.9	34.8	33.8	34.3	34.7	37.3	34.9	34.8
MN0095 (0)	34.5	35.2	33.1	32.3	33.0	38.8	34.6	34.7
M06-320039	40.3	39.4	36.9	36.5	40.7	44.5	42.4	41.9
M06-338016	33.6	35.9	32.2	31.4	32.2	36.5	33.4	33.6
M07-260009	35.1	37.4	33.2	33.4	34.0	37.8	35.3	34.4
M07-260028	36.8	39.1	34.8	34.2	35.6	39.8	36.9	37.0
M07-396100	36.0	36.7	33.7	34.5	35.4	39.8	35.8	35.7
ND09-4592	35.0	35.9	32.7	32.6	33.7	38.8	36.1	34.9
ND09-5604	34.7	37.1	32.5	31.9	34.3	38.0	34.5	34.8
ND09-5706	34.3	34.2	32.9	32.1	35.5	37.7	34.2	33.8
ND10-2763	33.6	33.0	32.7	31.2	35.2	36.6	33.1	33.8
ND10-2769	34.3	34.3	32.9	32.1	35.5	36.5	33.2	35.5
ND10-2993	34.1	34.6	32.7	32.4	32.4	37.8	34.5	34.0
ND10-3401	34.7	33.9	33.2	32.5	33.1	39.8	35.2	35.1
ND10-3417	35.2	34.6	32.4	33.2	35.4	39.0	35.0	36.7
ND10-3419	35.2	33.5	32.5	34.2	36.1	38.9	34.8	36.5
ND10-3427	34.9	34.1	33.2	32.9	33.7	38.9	34.8	36.7
ND10-3446	35.1	33.2	33.0	33.0	35.9	39.2	35.1	36.0
ND10-3449	33.2	32.3	32.3	31.8	32.2	36.5	32.6	34.6
ND10-3473	35.5	33.9	34.3	33.6	36.5	39.2	35.0	36.2
ND10-3495	35.0	30.9	33.6	34.1	35.2	39.8	35.3	36.3
ND10-4423	35.2	31.9	33.7	34.0	36.5	38.1	35.6	36.8
ND10-4839	32.9	31.1	31.8	32.5	31.2	36.3	34.1	33.5
ND10-4865	34.5	32.4	33.3	32.7	34.7	37.5	35.2	35.3
OAC 11-13C	34.8	32.1	33.6	33.5	35.2	38.3	34.8	36.2

* Protein and Oil values converted to 13% moisture basis.

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OIL (%)

Strain	Mean 7 Tests	Crookston MN	Moorehead MN	Shelly MN	Casselton ND	Elora ONT	Ottawa ONT	St. Mathieu de-Beloeil Que.
MN0071 (00)	19.1	17.7	20.4	19.4	21.0	17.5	18.6	18.8
Cavalier	17.9	17.1	18.7	18.2	18.5	17.3	17.9	17.7
MN0095 (0)	18.6	17.6	20.3	20.1	19.3	16.1	18.6	18.4
M06-320039	15.9	15.6	17.8	17.1	16.8	13.1	14.8	15.7
M06-338016	18.9	17.2	20.5	20.3	20.2	16.6	19.1	18.7
M07-260009	17.9	16.7	19.2	18.8	18.8	16.2	17.8	17.8
M07-260028	16.8	15.3	18.7	18.2	17.7	14.9	16.4	16.7
M07-396100	18.0	17.0	19.9	18.5	19.3	15.8	17.8	17.8
ND09-4592	18.5	17.7	20.6	20.0	18.5	16.2	18.1	18.5
ND09-5604	18.7	15.9	20.5	19.7	19.8	17.2	18.6	19.1
ND09-5706	18.6	18.0	19.8	19.9	20.0	16.4	18.2	18.0
ND10-2763	19.1	18.7	20.3	20.5	19.6	16.4	19.3	19.0
ND10-2769	18.5	18.6	20.1	19.8	18.5	16.3	18.7	17.7
ND10-2993	19.0	19.1	20.5	20.0	20.3	16.1	18.4	18.4
ND10-3401	18.6	18.6	20.0	19.9	20.4	15.1	17.8	18.2
ND10-3417	18.5	18.2	20.9	19.5	18.3	15.8	18.8	17.9
ND10-3419	18.5	19.8	20.4	18.5	18.4	15.8	19.0	17.8
ND10-3427	18.5	18.9	20.2	19.2	18.7	15.7	18.8	17.7
ND10-3446	18.6	19.4	20.2	19.8	18.6	15.8	18.7	17.7
ND10-3449	18.9	19.0	19.8	20.0	19.4	16.6	19.1	18.1
ND10-3473	18.3	18.9	19.6	18.8	18.5	15.7	18.8	18.0
ND10-3495	18.4	20.1	19.6	18.5	18.6	15.5	18.5	18.0
ND10-4423	18.9	20.7	20.3	19.3	18.2	17.2	18.8	17.7
ND10-4839	19.5	20.6	20.7	19.8	20.1	17.1	19.1	19.4
ND10-4865	19.2	20.0	20.1	19.5	19.8	17.1	18.8	18.9
OAC 11-13C	18.7	19.0	19.1	19.3	20.4	16.4	18.8	17.8

Uniform Test 0, 2013

Ent.	Strain	Parentage	Seed Source	Previous Testing	Gen. Comp.	Unique Traits
1	Sheyenne (0)	Pioneer 9071 x A96-492041	Helms	**7**	F4	Rps1-c
2.	MN1410 (I)	Unknown	Orf	**6**	F5	
3.	Surge (L)	A86-204022 x Kato	Green	**14**	F5	
4.	MN0095 (E)	M92-270029 x M93-313185	Orf	**3**	F5	Rps1
5.	MN0606CN (SCN)	MN0901 x MN0902CN	Orf	**5**	F5	SCN
6.	M05-363022	IA1008 x MN1011CN	Orf	1	F5	SCN
7.	M06-289001	M00-351195 x M00-365181	Orf	12 UT 00	F5	SCN
8.	M06-380029	Jim x PI548325	Orf	PT0	F5	Diversity
9.	M06-381085	M97-136016 X PI603290	Orf	PT0	F5	Diversity
10.	ND09-4027	Cavalier x ND03-6795	Helms	PT0	F4	Rps6, 1% hard seed
11.	OAC 10-20C	OAC Lakeview x RCAT Wildcat	Rajcan	PT0	F5	
12.	OAC 10-24C	OAC Lakeview x SD00-167	Rajcan	PT0	F5	
13.	SD06-415	SDX98-76192 x N98-4445A	Jiang	PT0	F5	Oil
14.	SD06-418	SDX98-76192 x N98-4445A	Jiang	PT0	F5	Oil
15.	SD07CV-539	IA2052 x Pion 9092	Jiang	2	F8	Oil
16.	SD08CV-0015	M97-136016 x SD96-135-3	Jiang	1	F5	
17.	SD08CV-0018	M97-136016 x SD96-135-3	Jiang	1	F5	
18.	SD09CV-0012	Lambert x SDX02FA-5-4	Jiang	PT0	F6	Oil
19.	SD09CV-0133	Surge x Loda	Jiang	PT0	F5	

UNIFORM TEST 0, 2013

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	Chlorosis Score Danvers MN	Shattering Score Manhattan KS	Green Stem Score St. Mathieu QUE
Sheyenne (0)	PGBIYYI	4.0	1.0	3.0
MN1410 (I)	WGBIYBfI	4.0	2.0	3.7
Surge (L)	PGBDYIbI	3.0	1.0	1.7
MN0095 (E)	PGBDYIbI	1.9	1.0	1.7
MN0606CN (SCN)	WTTIYYI	3.5	1.0	2.7
M05-363022	P+WGTDYYI	3.3	3.0	1.0
M06-289001	WTTIYYI	3.5	2.0	1.0
M06-380029	PGBDYBfI	3.5	2.0	2.0
M06-381085	P+WGBDYYI	4.6	1.0	2.0
ND09-4027	PGBDYLbfI	3.8	2.0	1.7
OAC 10-20C	PGBDYLgrI	3.4	3.0	1.7
OAC 10-24C	PLtBDYGrI	3.5	2.0	1.3
SD06-415	PGBDYBfI	2.5	2.0	1.7
SD06-418	PGBDYBfI	2.8	2.0	1.3
SD07CV-539	WGBDYBf+YI	4.1	2.0	2.3
SD08CV-0015	WGBDYLbfI	3.6	2.0	3.0
SD08CV-0018	WGBDYBfI	3.9	2.0	2.3
SD09CV-0012	PGTDYBfI	3.8	2.0	1.0
SD09CV-0133	PGBDYIbI	3.4	2.0	1.7

UNIFORM TEST 0, 2013

REGIONAL SUMMARY

Strain	Yield	Rank	Maturity	Lodging	Plant Height	Seed Quality	Seed Size	Composition	
								Protein	Oil
No. of Tests	7	7	9	9	9	9	9	8	8
	bu/a	No.	Date	Score	In.	Score	g/100	%	%
Sheyenne (0)	55.3	11	9/21	1.2	29	1.4	15.7	35.1	18.3
MN1410 (I)	61.5	1	7.2	1.7	32	1.4	17.8	36.3	18.3
Surge (L)	60.0	3	0.9	1.3	29	1.4	19.8	36.7	17.9
MN0095 (E)	52.9	18	-6.0	1.3	28	1.6	17.2	35.6	18.1
MN0606CN (SCN)	56.1	7	0.9	1.9	33	1.2	18.2	35.8	17.8
M05-363022	55.6	9	0.1	1.2	29	1.4	16.1	34.6	19.1
M06-289001	53.6	15	-2.8	1.6	29	1.6	17.4	36.6	18.4
M06-380029	53.7	13	-2.1	1.8	31	1.7	19.6	35.6	18.6
M06-381085	56.1	7	5.9	1.5	30	1.5	17.6	35.0	19.4
ND09-4027	55.6	9	-5.0	1.2	29	1.4	16.1	34.6	19.1
OAC 10-20C	53.6	15	1.0	1.6	29	1.6	17.4	36.6	18.4
OAC 10-24C	53.7	13	-1.7	1.8	31	1.7	19.6	35.6	18.6
SD06-415	53.3	17	5.1	1.5	30	1.5	17.6	35.0	19.4
SD06-418	58.1	4	4.0	1.5	31	1.8	16.7	34.6	19.0
SD07CV-539	56.2	6	3.9	1.3	29	1.5	15.3	34.2	18.9
SD08CV-0015	60.3	2	5.8	1.2	32	1.3	18.9	36.2	18.0
SD08CV-0018	56.7	5	1.1	1.5	30	1.2	15.8	35.6	18.6
SD09CV-0012	50.5	19	3.0	1.7	32	1.4	16.4	36.2	18.8
SD09CV-0133	54.1	12	2.8	1.3	28	1.4	18.7	36.9	17.9

121.0 Days After Planting

UNIFORM TEST 0, 2013

2012-2013 2-YEAR MEAN

Strain	Yield	Rank	Maturity	Lodging	Plant Height	Seed Quality	Seed Size	Composition	
								Protein	Oil
No. of Tests	14	14	17	16	16	17	17	15	15
	bu/a	No.	Date	Score	In.	Score	g/100	%	%
Sheyenne (0)	55.1	4	9/14	1.2	30	1.5	15.9	34.3	18.4
MN1410 (I)	58.2	2	6.5	1.6	32	1.4	17.3	35.7	18.4
Surge (L)	55.2	3	1.4	1.3	29	1.3	19.4	36.1	18.1
MN0095 (E)	48.7	9	-4.9	1.3	27	1.6	15.4	35.0	18.3
MN0606CN (SCN)	52.9	8	2.0	1.7	32	1.3	16.8	35.1	18.1
M05-363022	54.2	7	0.8	1.1	29	1.4	15.8	34.5	18.8
SD07CV-539	54.5	6	3.7	1.2	30	1.4	15.4	33.6	18.9
SD08CV-0015	58.3	1	5.1	1.3	33	1.2	18.5	35.5	18.2
SD08CV-0018	54.6	5	1.3	1.3	30	1.3	15.7	34.6	18.9

114.7 Days After Planting

UNIFORM TEST 0, 2013

YIELD (bu/a)

Strain	Mean 7 Tests	Morris* MN	Rosemount MN	Casselton ND	Ottawa ONT	St. Pauls ONT	Woodstock ONT	St. Mathieu de-Beloeil QUE	Volga* SD	Watertown SD
Sheyenne (0)	55.3	30.8	30.8	61.2	57.7	42.7	43.8	91.4	40.1	59.4
MN1410 (I)	61.5	29.0	36.8	67.8	68.9	56.0	48.8	96.9	45.2	55.5
Surge (L)	60.0	26.4	37.9	71.2	62.2	52.6	44.4	95.5	49.7	56.4
MN0095 (E)	52.9	28.0	34.6	61.2	57.3	41.8	38.3	76.1	48.2	61.4
MN0606CN (SCN)	56.1	28.2	34.3	69.4	59.5	42.7	46.3	87.8	33.1	52.9
M05-363022	55.6	21.9	35.8	53.8	57.3	49.4	47.5	84.4	45.8	60.9
M06-289001	53.6	29.4	31.1	69.1	54.8	47.0	40.8	79.2	31.9	53.0
M06-380029	53.7	27.0	35.4	63.9	61.7	46.5	38.8	81.9	36.9	47.8
M06-381085	53.3	26.7	30.4	58.7	55.5	51.8	40.6	86.1	27.7	50.2
ND09-4027	50.4	26.4	30.3	62.6	53.7	39.0	36.7	80.5	41.7	49.7
OAC 10-20C	57.2	23.2	34.4	64.5	60.7	57.2	46.3	89.0	35.9	48.6
OAC 10-24C	60.6	21.9	35.4	68.6	65.9	51.8	46.7	97.0	41.5	59.1
SD06-415	56.2	26.7	33.0	65.2	57.1	49.8	46.7	90.5	39.5	51.2
SD06-418	58.1	21.2	33.4	69.1	62.4	55.1	46.1	91.8	36.4	49.1
SD07CV-539	56.2	29.9	36.5	69.4	59.9	47.2	42.6	87.1	32.6	51.0
SD08CV-0015	60.3	26.9	37.9	66.7	60.8	55.9	48.7	97.2	49.0	55.3
SD08CV-0018	56.7	28.9	35.4	58.4	63.2	51.8	43.0	88.2	38.0	56.9
SD09CV-0012	50.5	27.9	29.2	65.1	55.4	46.3	28.2	80.9	29.7	48.3
SD09CV-0133	54.1	23.6	31.8	61.1	58.4	43.0	42.3	91.8	36.4	50.6
Location Mean		26.5	33.9	64.6	59.6	48.8	43.0	88.1	38.9	53.5
C.V. (%)		18.9	10.0	10.1	4.1	7.0	7.4	4.8	17.1	7.9
L.S.D. (5%)		8.4	5.6	11.1	4.8	6.4	5.3	7.0	11.0	7.0
Row Sp. (In.)		30	30	30	17.7	14	14	7	30	30
Rows/Plot		4	4	4	4	4	4	5	2	2
Reps		3	3	3	3	3	3	3	3	3

*Data not included in mean.

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YIELD RANK

Strain	Yield Rank	Morris MN	Rosemount MN	Casselton ND	Ottawa ONT	St. Pauls ONT	Woodstock ONT	St. Mathieu de-Beloeil QUE	Volga SD	Watertown SD
Sheyenne (0)	11	1	16	14	12	17	10	7	8	3
MN1410 (I)	1	4	3	7	1	2	1	3	5	7
Surge (L)	3	13	1	1	5	5	9	4	1	6
MN0095 (E)	18	7	9	14	13	18	17	19	3	1
MN0606CN (SCN)	7	6	11	2	10	16	6	11	15	10
M05-363022	9	17	5	19	14	10	3	14	4	2
M06-289001	15	3	15	4	18	12	14	18	17	9
M06-380029	13	9	6	12	6	13	16	15	11	19
M06-381085	7	11	17	17	16	8	15	13	19	14
ND09-4027	9	13	18	13	19	19	18	17	6	15
OAC 10-20C	15	16	10	11	8	1	7	9	14	17
OAC 10-24C	13	17	6	6	2	7	5	2	7	4
SD06-415	17	11	13	9	15	9	4	8	9	11
SD06-418	4	19	12	4	4	4	8	5	13	16
SD07CV-539	6	2	4	2	9	11	12	12	16	12
SD08CV-0015	2	10	1	8	7	3	2	1	2	8
SD08CV-0018	5	5	6	18	3	6	11	10	10	5
SD09CV-0012	19	8	19	10	17	14	19	16	18	18
SD09CV-0133	12	15	14	16	11	15	13	6	12	13

UNIFORM TEST 0, 2013

MATURITY (date)

Strain	Mean 9 Tests	Morris MN	Rosemount MN	Casselton ND	Ottawa ONT	St. Pauls ONT	Woodstock ONT	St. Mathieu de-Beloeil QUE	Volga SD	Watertown SD
Sheyenne (0)	9/21	9/25	9/17	9/28	9/16	9/20	10/5	9/22	9/10	9/21
MN1410 (I)	7.2	4	6	12	9	7	7	7	6	7
Surge (L)	0.9	0	1	2	4	1	-2	1	0	2
MN0095 (E)	-6.0	-4	-6	-9	-8	-13	-8	-11	6	-1
MN0606CN (SCN)	0.9	4	-1	3	-4	-0	2	2	1	1
M05-363022	0.1	1	1	2	2	-5	-2	-2	2	2
M06-289001	-2.8	0	-3	-5	-1	-7	-2	-9	1	0
M06-380029	-2.1	-2	-1	-2	-3	-7	-3	-4	1	2
M06-381085	5.9	5	7	8	8	8	7	2	6	2
ND09-4027	-5.0	-4	-5	-5	-3	-7	-8	-9	-4	0
OAC 10-20C	1.0	0	4	1	2	-2	-2	0	4	2
OAC 10-24C	-1.7	-1	4	-3	-3	-5	-1	-9	2	0
SD06-415	5.1	2	7	5	9	6	3	5	7	2
SD06-418	4.0	0	5	7	7	4	0	2	5	6
SD07CV-539	3.9	2	5	5	5	4	1	4	6	3
SD08CV-0015	5.8	5	7	5	7	6	7	4	4	7
SD08CV-0018	1.1	1	5	0	-1	2	2	-2	1	2
SD09CV-0012	3.0	2	3	5	1	3	10	-1	2	2
SD09CV-0133	2.8	2	4	7	5	1	1	2	1	2
Date Planted	5/23	5/29	6/2	5/13	5/14	5/17	6/18	5/28	5/9	5/20
Days to Mature	121	119	107	138	125	126	109	117	124	124

UNIFORM TEST 0, 2013

LODGING (score)

Strain	Mean 9 Tests	Morris MN	Rosemount MN	Casselton ND	Ottawa ONT	St. Pauls ONT	Woodstock ONT	St. Mathieu de-Beloeil QUE	Volga SD	Watertown SD
Sheyenne (0)	1.2	1.0	2.0	1.3	1.0	1.0	1.5	1.0	1.0	1.0
MN1410 (I)	1.7	1.0	2.7	3.0	1.5	2.0	1.2	1.0	1.0	2.0
Surge (L)	1.3	1.0	2.3	1.0	1.5	1.0	1.0	1.0	2.0	1.0
MN0095 (E)	1.3	1.0	2.0	1.0	1.3	1.0	1.0	1.0	2.0	1.0
MN0606CN (SCN)	1.8	1.0	3.0	2.0	1.3	1.0	1.7	1.0	4.0	1.5
M05-363022	1.1	1.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
M06-289001	1.1	1.0	2.3	1.0	1.0	1.0	1.0	1.0	1.0	1.0
M06-380029	1.3	1.0	2.7	1.0	1.0	1.3	1.6	1.0	1.0	1.0
M06-381085	1.9	1.0	2.3	2.3	2.5	2.0	2.4	1.0	2.0	2.0
ND09-4027	1.2	1.0	1.7	1.0	1.0	1.2	1.0	1.0	2.0	1.0
OAC 10-20C	1.6	1.0	3.0	1.7	1.1	1.0	1.7	1.0	3.0	1.0
OAC 10-24C	1.8	1.0	3.0	1.3	1.1	1.0	1.7	1.0	4.0	2.0
SD06-415	1.5	1.0	2.7	1.7	1.2	1.2	1.4	1.0	2.0	1.0
SD06-418	1.5	1.0	1.7	2.0	1.2	1.0	1.2	1.0	3.0	1.0
SD07CV-539	1.3	1.0	1.7	1.3	1.6	1.0	1.0	1.0	2.0	1.0
SD08CV-0015	1.2	1.0	2.0	1.0	1.0	1.0	1.2	1.0	2.0	1.0
SD08CV-0018	1.5	1.0	2.3	2.0	1.0	1.3	1.3	1.0	2.0	1.5
SD09CV-0012	1.7	1.0	2.7	2.7	1.2	1.7	2.1	1.0	1.0	2.0
SD09CV-0133	1.3	1.0	2.0	1.0	1.0	1.0	1.1	1.0	3.0	1.0

UNIFORM TEST 0, 2013

PLANT HEIGHT (inches)

Strain	Mean 9 Tests	Morris MN	Rosemount MN	Casselton ND	Ottawa ONT	St. Pauls ONT	Woodstock ONT	St. Mathieu de-Beloeil QUE	Volga SD	Watertown SD
Sheyenne (0)	29	20	24	31	32	30	33	25	31	36
MN1410 (I)	32	23	26	31	37	38	34	28	33	37
Surge (L)	29	22	24	30	30	30	32	22	36	35
MN0095 (E)	27	19	24	26	28	27	29	21	31	35
MN0606CN (SCN)	29	21	25	30	33	27	33	25	33	36
M05-363022	29	22	22	31	32	32	30	25	33	37
M06-289001	32	18	25	32	35	30	33	30	39	41
M06-380029	28	21	23	30	30	29	30	22	32	38
M06-381085	33	22	27	32	35	37	39	27	31	43
ND09-4027	29	22	19	30	31	29	29	21	39	38
OAC 10-20C	29	21	27	31	34	29	31	24	35	31
OAC 10-24C	31	23	24	34	36	34	33	26	34	34
SD06-415	30	22	23	29	33	31	32	26	38	41
SD06-418	31	23	25	32	37	31	34	25	37	36
SD07CV-539	29	20	25	30	33	29	31	22	37	35
SD08CV-0015	32	23	26	32	36	33	34	26	40	39
SD08CV-0018	30	20	25	33	33	34	31	23	38	37
SD09CV-0012	32	22	24	36	33	36	36	28	35	40
SD09CV-0133	28	20	24	30	29	27	33	22	34	34

UNIFORM TEST 0, 2013

SEED QUALITY (score)

Strain	Mean 9 Tests	Morris MN	Rosemount MN	Casselton ND	Ottawa ONT	St. Pauls ONT	Woodstock ONT	St. Mathieu de-Beloeil QUE	Volga SD	Watertown SD
Sheyenne (0)	1.4	1.0	1.0	1.0	1.7	1.5	1.5	2.7	1.0	1.0
MN1410 (I)	1.4	1.0	2.0	1.0	1.3	1.5	1.5	2.0	1.0	1.0
Surge (L)	1.4	1.0	2.0	1.0	1.8	1.5	1.5	2.0	1.0	1.0
MN0095 (E)	1.5	2.0	2.0	2.0	1.8	1.5	1.5	1.0	1.0	1.0
MN0606CN (SCN)	1.5	1.0	2.0	1.0	2.0	1.5	1.5	2.3	1.0	1.0
M05-363022	1.6	2.0	2.0	2.0	1.7	1.5	1.5	1.7	1.0	1.0
M06-289001	1.3	1.0	1.0	1.0	1.5	1.5	1.5	2.0	1.0	1.0
M06-380029	1.6	3.0	1.0	1.0	1.8	1.5	1.5	1.8	2.0	1.0
M06-381085	1.2	1.0	1.0	1.0	1.4	1.5	1.5	1.5	1.0	1.0
ND09-4027	1.4	1.0	1.0	1.0	1.5	1.5	1.5	2.3	2.0	1.0
OAC 10-20C	1.6	1.0	2.0	2.0	2.0	1.5	1.5	2.0	1.0	1.0
OAC 10-24C	1.7	2.0	2.0	2.0	1.6	1.5	1.5	1.7	2.0	1.0
SD06-415	1.5	2.0	2.0	1.0	1.4	1.5	1.5	1.7	1.0	1.0
SD06-418	1.8	2.0	1.0	3.0	1.8	1.5	1.5	3.0	1.0	1.0
SD07CV-539	1.5	2.0	2.0	1.0	1.7	1.5	1.5	1.7	1.0	1.0
SD08CV-0015	1.3	2.0	1.0	1.0	1.4	1.5	1.5	1.3	1.0	1.0
SD08CV-0018	1.2	1.0	1.0	1.0	1.0	1.5	1.5	1.5	1.0	1.0
SD09CV-0012	1.4	1.0	1.0	2.0	1.3	1.5	1.5	2.0	1.0	1.0
SD09CV-0133	1.4	1.0	2.0	1.0	1.3	1.5	1.5	1.3	2.0	1.0

UNIFORM TEST 0, 2013

SEED SIZE (g/100)

Strain	Mean 9 Tests	Morris MN	Rosemount MN	Casselton ND	Ottawa ONT	St. Pauls ONT	Woodstock ONT	St. Mathieu de-Beloeil QUE	Volga SD	Watertown SD
Sheyenne (0)	15.7	16.3	14.3	15.3	16.2	14.4	16.2	18.1	13.6	16.8
MN1410 (I)	17.8	19.4	14.6	18.6	18.4	16.4	20.1	21.2	14.6	16.7
Surge (L)	19.8	20.5	17.9	21.4	20.4	18.6	20.1	22.9	17.6	19.1
MN0095 (E)	14.6	14.2	15.0	14.0	14.5	13.0	15.9	15.3	14.0	15.6
MN0606CN (SCN)	15.9	15.6	13.7	15.1	16.2	14.5	18.2	18.2	14.5	17.5
M05-363022	17.3	18.5	14.2	16.6	18.1	15.7	19.7	19.2	14.9	18.4
M06-289001	16.3	17.8	13.6	15.4	16.5	15.8	18.4	17.2	13.5	18.2
M06-380029	17.2	17.2	15.3	17.7	17.9	16.0	19.4	19.4	14.1	17.8
M06-381085	18.2	18.2	13.9	18.0	20.0	18.7	20.6	21.4	13.9	19.1
ND09-4027	16.1	15.4	14.6	15.6	16.8	14.9	15.6	19.4	14.9	17.3
OAC 10-20C	17.4	17.1	14.9	16.5	18.9	18.5	18.1	20.0	12.8	19.7
OAC 10-24C	19.6	16.0	16.3	19.8	20.0	20.5	22.6	22.9	15.9	22.2
SD06-415	17.6	14.5	14.4	18.6	19.2	18.6	20.0	21.8	14.1	17.2
SD06-418	16.7	14.7	14.8	16.7	18.2	15.6	18.5	20.1	14.0	17.3
SD07CV-539	15.3	15.0	14.4	15.5	16.3	13.1	15.9	18.0	11.8	17.3
SD08CV-0015	18.9	17.9	16.7	18.5	19.1	18.8	20.7	22.3	15.7	20.0
SD08CV-0018	15.8	15.1	14.8	17.2	16.0	14.1	16.7	18.8	12.3	17.1
SD09CV-0012	16.4	16.9	14.1	17.9	18.0	15.2	16.4	19.1	13.4	16.4
SD09CV-0133	18.7	19.0	16.2	20.8	19.7	17.5	19.3	21.9	14.3	19.2

UNIFORM TEST 0, 2013

PROTEIN (%)

Strain	Mean 8 Tests	Morris MN	Rosemount MN	Casselton ND	Ottawa* ONT	St. Pauls* ONT	Woodstock* ONT	St. Mathieu de-Beloeil QUE	Volga SD
Sheyenne (0)	35.1	35.8	35.8	34.2	33.3	35.0	36.5	34.9	35.5
MN1410 (I)	36.3	36.3	36.9	35.0	34.0	36.6	37.6	36.7	37.3
Surge (L)	36.7	36.4	37.8	35.7	34.5	36.5	38.2	37.4	36.8
MN0095 (E)	35.4	34.9	35.2	34.8	34.7	35.1	37.7	34.9	35.7
MN0606CN (SCN)	36.0	34.7	36.1	36.4	34.5	35.4	37.8	35.5	37.5
M05-363022	35.6	34.5	37.8	33.3	34.6	35.2	36.0	36.4	37.3
M06-289001	36.9	36.1	37.2	35.8	35.4	36.9	38.6	36.6	38.5
M06-380029	35.6	35.9	35.9	34.4	34.5	35.2	37.1	35.2	36.5
M06-381085	35.8	34.9	36.4	33.1	35.0	34.9	37.5	36.2	38.4
ND09-4027	34.6	34.8	35.5	33.9	33.2	33.6	35.3	34.2	36.7
OAC 10-20C	36.6	35.4	37.2	35.3	35.6	36.7	38.4	36.8	37.8
OAC 10-24C	35.6	36.8	36.9	34.9	33.3	35.2	37.3	34.5	35.5
SD06-415	35.0	35.0	34.9	32.7	33.1	35.8	36.2	35.9	36.6
SD06-418	34.6	34.2	36.5	31.8	33.2	34.4	35.4	35.2	36.1
SD07CV-539	34.2	33.3	34.9	32.2	33.0	33.9	35.7	34.1	36.3
SD08CV-0015	36.2	35.5	37.1	34.8	34.5	35.7	37.8	36.3	38.1
SD08CV-0018	35.6	34.6	35.2	35.4	33.9	35.7	37.0	35.4	37.3
SD09CV-0012	36.2	36.2	37.2	34.6	34.7	35.9	38.1	36.0	36.8
SD09CV-0133	36.9	36.6	37.5	36.5	34.2	36.7	38.1	37.0	38.6

* Protein and Oil values converted to 13% moisture basis.

UNIFORM TEST 0, 2013

OIL (%)

Strain	Mean 8 Tests	Morris MN	Rosemount MN	Casselton ND	Ottawa* ONT	St. Pauls* ONT	Woodstock* ONT	St. Mathieu de-Beloeil QUE	Volga SD
Sheyenne (0)	18.3	18.8	17.8	18.8	19.2	17.8	17.5	18.0	18.6
MN1410 (I)	18.3	18.2	17.3	19.1	19.4	18.2	17.7	17.7	19.1
Surge (L)	18.6	19.0	17.5	20.1	19.6	18.4	17.6	17.4	19.6
MN0095 (E)	18.6	19.5	18.5	19.1	18.6	18.0	17.5	18.9	19.0
MN0606CN (SCN)	18.0	18.5	17.3	18.1	18.4	18.2	17.6	17.6	18.2
M05-363022	18.3	19.2	16.9	19.7	18.4	18.2	17.8	17.3	19.1
M06-289001	17.9	18.1	17.1	18.8	18.5	17.8	17.4	17.7	17.8
M06-380029	18.1	18.7	18.2	19.1	18.2	17.5	17.6	17.9	17.6
M06-381085	17.8	19.1	17.5	18.2	18.6	17.8	16.5	17.1	18.0
ND09-4027	19.1	19.7	18.5	20.0	19.7	18.9	18.4	19.3	18.7
OAC 10-20C	18.4	19.1	17.9	19.8	18.6	18.3	17.5	17.7	18.3
OAC 10-24C	18.6	17.9	17.8	19.2	19.6	18.9	17.7	18.5	19.2
SD06-415	19.4	18.9	19.0	20.1	20.7	19.1	18.7	18.6	20.0
SD06-418	19.0	19.3	17.8	20.5	19.8	18.6	17.8	18.2	19.7
SD07CV-539	18.9	19.5	18.7	20.4	19.4	18.6	18.0	18.3	18.5
SD08CV-0015	18.0	18.4	17.5	18.8	19.0	18.1	16.9	17.1	18.3
SD08CV-0018	18.6	19.1	18.5	19.3	19.7	17.5	17.5	18.4	18.6
SD09CV-0012	18.8	18.5	18.3	19.5	19.7	19.1	17.3	18.2	19.8
SD09CV-0133	17.9	18.0	17.4	17.7	19.4	18.0	17.1	17.2	18.2

* Protein and Oil values converted to 13% moisture basis.

Preliminary Test 0, 2013

Ent.	Strain	Parentage	Seed Source	Gen. Comp.	Unique Traits
1	Sheyenne (0)	Pioneer 9071 x A96-492041	Helms	F4	Rps1-c
2.	MN1410 (I)	Unknown	Orf	F5	
3.	Surge (L)	A86-204022 x Kato	Green	F5	
4.	MN0095 (E)	M92-270029 x M93-313185	Orf	F5	Rps1
5.	M07-267006	M02-115031 x ND02-2019	Orf	F5	
6.	M07-278126	M00-110002 x Sheyenne	Orf	F5	
7.	M07-340035	M99-274166 x MN0091	Orf	F5	SSR
8.	M07-352123	M01-242042 x M01-257033	Orf	F5	DIVERSITY
9.	M07-355016	M01-241048 x MN0107	Orf	F5	
10.	M07-396047	Sheyenne x M01-257028	Orf	F5	Slow Wilt
11.	M07-396099	Sheyenne x M01-257028	Orf	F5	Slow Wilt
12.	M08-144017	MN0307SP x Hendricks	Orf	F5	Slow Wilt
13.	M08-154093	SD02-906 x U03-100612	Orf	F5	
14.	ND09-5798	ND03-7267 x Sheyenne	Helms	F4	2% hard seed
15.	ND10-2762	Sheyenne x ND03-5441	Helms	F4	
16.	ND10-2933	ND04-12689 x ND02-2019	Helms	F4	1% hard seed
17.	ND10-3067	Sheyenne x {LaMoure(2)Rag1]	Helms	F4	
18.	ND10-3315	Sheyenne(2) x {LaMoure(2)Rag1]	Helms	F4	3% hard seed
19.	ND10-3318	Sheyenne(2) x {LaMoure(2)Rag1]	Helms	F4	4% hard seed
20.	ND10-3330	Sheyenne(2) x {LaMoure(2)Rag1]	Helms	F4	1% hard seed
21.	ND10-3413	ND03-7566 x [ND03-5441 x LaMoure(2)]	Helms	F4	2% hard seed
22.	ND10-3434	ND03-7566 x [ND03-5441 x LaMoure(2)]	Helms	F4	
23.	ND10-3459	ND03-7566 x [ND03-5441 x LaMoure(2)]	Helms	F4	1% hard seed
24.	ND10-4485	Sheyenne x Ashtabula	Helms	F4	
25.	ND10-4518	Sheyenne x Ashtabula	Helms	F4	8% hard sed
26.	OAC 11-25C	OAC Prodigy x OAC Wallace	Rajcan	F5	
27.	OAC 11-34C	OAC Prodigy x OAC Champion	Rajcan	F5	
28.	OAC 11-43C	OAC Huron x S03-W4	Rajcan	F5	
29.	SD10CV-0004	SD03-234 x LD05-16094	Jiang	F5	
30.	SD10CV-0066	SD03-1501 x LD05-16094	Jiang	F5	
31.	SD10CV-0096	SD03-1501 x LD05-16094	Jiang	F5	
32.	SD10CV-0129	SDX02FA-5-5 BR x LD05-16066	Jiang	F5	
33.	SD10CV-0140	SD00-632 x SD00-1501	Jiang	F5	
34.	SD10CV-0152	SDX02FA-3A-10 IMBL x LD05-16066	Jiang	F5	
35.	SD10CV-0156	SDX02FA-3A-10 IMBL x LD05-16066	Jiang	F5	

PRELIMINARY TEST 0, 2013

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	Chlorosis Score Danvers MN	Shattering Score Manhattan KS	Green Stem Score St. Mathieu QUE
Sheyenne (0)	PGBDYYI	3.6	2.0	2.3
MN1410 (I)	WGBDYBfI	3.9	2.0	3.0
Surge (L)	PGBDYIbI	3.5	2.0	0.9
MN0095 (E)	PGBDYIbI	3.1	2.0	1.3
M07-267006	WGBDYYI	3.3	2.0	2.1
M07-278126	P+WGBDYYI	3.1	1.0	1.8
M07-340035	PGBDYYI	3.8	3.0	0.9
M07-352123	PGBIYYI	3.8	1.0	2.8
M07-355016	P+WGB+TIYYI	3.8	2.0	0.8
M07-396047	PTBSYYI	3.6	4.0	2.7
M07-396099	PGBDYYI	3.6	2.0	1.8
M08-144017	WGBDYYI	3.5	1.0	1.9
M08-154093	PTTDYBlI	3.1	2.0	1.2
ND09-5798	PTBDYYI	3.0	1.0	2.4
ND10-2762	PGTDYYI	3.6	1.0	0.9
ND10-2933	PGBDYYI	3.6	2.0	1.9
ND10-3067	PGBDYYI	3.9	1.0	2.1
ND10-3315	PGBDYYI	3.9	2.0	2.8
ND10-3318	PGBDYYI	3.9	2.0	2.2
ND10-3330	PGBDYYI	3.6	2.0	2.2
ND10-3413	WGTDYLbfI	3.1	2.0	1.7
ND10-3434	WGTDYLbfI	3.4	2.0	1.8
ND10-3459	WGTDYLbfI	3.0	1.0	1.3
ND10-4485	PGBDYYI	3.9	1.0	2.0
ND10-4518	PGBIYYI	3.3	2.0	1.2
OAC 11-25C	PTBIYYI	3.5	2.0	1.6
OAC 11-34C	PTBDYYI	3.9	3.0	1.4
OAC 11-43C	PTBDYYI	4.4	2.0	2.2
SD10CV-0004	PTTDYBlI	2.9	2.0	0.6
SD10CV-0066	PTBDYBlI	4.3	2.0	2.2
SD10CV-0096	PTBDYBrI	4.3	2.0	0.9
SD10CV-0129	PTTDYBrI	2.8	2.0	1.7
SD10CV-0140	P+WGBDYIb+BfI	4.1	2.0	3.1
SD10CV-0152	PTBDYBrI	3.9	2.0	1.6
SD10CV-0156	PTBDYBlI	3.5	3.0	2.1

PRELIMINARY TEST 0, 2013

REGIONAL SUMMARY

Strain	Yield 7 bu/a	Rank 7 No.	Maturity 8 Date	Lodging 8 Score	Plant Height 8 In.	Seed Quality 8 Score	Seed Size 8 g/100	Composition Protein 7 %	Composition Oil 7 %
No. of Tests									
Sheyenne (0)	53.0	16	9/21	1.2	30	1.5	15.5	35.4	18.1
MN1410 (I)	58.9	1	6.6	1.6	32	1.6	17.5	36.3	18.1
Surge (L)	55.6	4	1.4	1.2	30	1.6	19.3	37.2	18.2
MN0095 (E)	48.3	27	-5.9	1.3	26	1.3	14.2	35.7	18.8
M07-267006	50.2	17	-2.1	1.5	33	1.4	18.9	36.4	17.7
M07-278126	52.0	15	-4.0	1.3	30	1.5	16.5	34.4	18.5
M07-340035	48.5	27	-5.4	1.4	27	1.6	17.5	37.3	17.4
M07-352123	48.0	33	3.4	1.2	32	1.9	17.2	35.7	18.3
M07-355016	46.9	34	-1.9	1.4	27	1.4	13.9	36.3	18.4
M07-396047	49.7	25	-1.5	1.4	29	2.3	17.5	36.2	18.0
M07-396099	48.0	32	0.1	1.2	26	1.8	15.4	37.1	17.3
M08-144017	47.2	35	-4.1	1.3	27	1.8	18.9	35.5	18.8
M08-154093	53.4	10	-1.6	1.1	26	1.5	18.3	36.3	18.6
ND09-5798	52.5	12	0.5	1.2	26	1.6	16.9	35.7	18.2
ND10-2762	51.4	14	-1.9	1.3	27	1.3	14.5	35.8	18.1
ND10-2933	50.1	29	-0.1	1.3	30	1.8	15.5	35.6	18.1
ND10-3067	52.0	21	1.0	1.3	29	1.8	15.6	35.3	18.2
ND10-3315	51.7	20	-1.0	1.2	30	1.8	16.1	35.1	18.3
ND10-3318	52.3	12	-1.6	1.2	28	1.7	15.9	34.9	18.5
ND10-3330	52.0	18	-0.9	1.2	29	1.4	15.6	34.7	18.3
ND10-3413	50.0	23	-1.8	1.2	26	1.8	15.4	36.8	18.2
ND10-3434	49.7	24	-2.1	1.1	26	1.9	15.2	37.1	18.0
ND10-3459	48.4	30	-1.1	1.2	26	1.7	15.3	36.6	18.1
ND10-4485	50.2	26	-3.9	1.2	29	1.7	15.8	35.4	18.6
ND10-4518	52.1	9	-3.0	1.1	28	1.4	16.8	34.4	18.4
OAC 11-25C	57.1	2	0.4	1.7	30	1.4	18.6	35.3	18.1
OAC 11-34C	51.3	21	0.8	1.7	33	1.6	18.8	37.2	17.5
OAC 11-43C	57.9	3	2.0	1.2	28	1.6	21.8	36.6	18.3
SD10CV-0004	52.3	8	5.5	1.2	29	1.4	19.2	37.4	18.0
SD10CV-0066	54.6	5	3.6	1.2	28	1.5	19.4	36.9	18.0
SD10CV-0096	54.0	6	2.5	1.2	28	1.8	19.1	36.0	18.2
SD10CV-0129	51.0	11	6.9	1.1	27	1.6	18.9	38.4	17.2
SD10CV-0140	52.8	7	6.1	1.5	32	1.8	17.7	37.2	17.3
SD10CV-0152	49.7	19	3.3	1.8	31	1.8	17.1	37.0	17.9
SD10CV-0156	49.3	30	2.9	1.9	29	2.0	16.1	37.7	17.2

120.9 Days After Planting

PRELIMINARY TEST 0, 2013

YIELD (bu/a)

Strain	Mean 7 Tests	Morris* MN	Rosemount MN	Casselton ND	St. Pauls ONT	Woodstock ONT	St. Mathieu de-Beloeil QUE	Volga SD	Watertown SD
Sheyenne (0)	53.0	32.6	39.5	59.6	48.4	46.3	96.6	39.6	40.8
MN1410 (I)	58.9	21.8	40.8	65.9	61.7	51.4	99.1	39.9	53.9
Surge (L)	55.6	21.2	41.0	67.4	45.4	47.2	86.1	43.4	58.6
MN0095 (E)	48.3	22.9	37.4	62.8	41.2	36.3	75.9	44.0	40.6
M07-267006	50.2	26.9	35.9	57.0	53.4	41.7	79.4	34.3	49.8
M07-278126	52.0	29.7	36.9	60.5	45.6	42.6	88.0	38.5	51.6
M07-340035	48.5	27.1	34.1	57.3	49.5	44.4	77.2	35.4	41.8
M07-352123	48.0	27.1	33.7	54.8	47.6	38.3	79.6	36.6	45.5
M07-355016	46.9	31.9	35.9	63.7	45.5	34.7	76.3	29.2	43.1
M07-396047	49.7	32.4	41.3	56.7	45.6	38.9	81.6	36.2	47.7
M07-396099	48.0	28.2	35.9	57.4	49.2	37.2	78.0	33.2	45.1
M08-144017	47.2	24.9	36.8	62.5	43.6	36.6	83.5	36.6	30.8
M08-154093	53.4	21.7	36.7	57.4	59.4	39.6	93.4	33.5	53.9
ND09-5798	52.5	23.1	44.1	64.2	51.5	42.1	90.5	36.8	38.4
ND10-2762	51.4	24.9	41.3	58.1	47.7	35.5	84.1	41.7	51.7
ND10-2933	50.1	26.9	36.2	54.9	51.2	36.8	89.8	37.1	44.8
ND10-3067	52.0	21.5	38.5	61.3	53.0	43.2	95.5	35.1	37.7
ND10-3315	51.7	24.5	45.2	51.2	51.2	42.5	91.8	45.6	34.2
ND10-3318	52.3	22.5	34.6	57.7	54.5	46.1	89.2	45.1	39.1
ND10-3330	52.0	26.4	28.5	65.7	47.1	49.5	92.2	45.6	35.7
ND10-3413	50.0	28.2	40.8	61.0	42.9	34.2	82.6	31.9	56.7
ND10-3434	49.7	30.4	33.0	70.4	46.6	35.3	80.7	31.9	49.9
ND10-3459	48.4	30.2	39.0	56.4	43.7	27.6	79.5	36.0	56.6
ND10-4485	50.2	29.0	34.1	58.7	46.8	40.5	88.7	41.7	41.1
ND10-4518	52.1	29.4	39.3	60.3	53.2	44.4	83.4	40.3	44.1
OAC 11-25C	57.1	27.7	41.4	66.8	54.9	49.8	89.5	36.2	61.4
OAC 11-34C	51.3	27.5	39.9	54.0	55.7	44.8	90.1	33.1	41.5
OAC 11-43C	57.9	23.6	39.0	58.9	60.3	54.9	95.3	43.9	53.2
SD10CV-0004	52.3	24.2	33.1	67.8	51.4	43.9	83.3	38.7	47.6
SD10CV-0066	54.6	23.9	38.8	72.5	52.4	45.9	88.0	36.5	48.3
SD10CV-0096	54.0	20.2	42.6	68.8	50.3	42.5	89.6	37.9	46.6
SD10CV-0129	51.0	27.5	40.4	55.0	50.2	36.8	77.6	44.4	52.7
SD10CV-0140	52.8	22.4	38.1	69.7	55.7	37.1	83.1	35.4	50.8
SD10CV-0152	49.7	27.1	36.3	60.4	52.1	44.6	76.1	28.5	49.7
SD10CV-0156	49.3	25.6	36.2	65.7	53.1	36.2	86.4	24.3	43.4
Location Mean		26.1	37.9	61.2	50.3	41.4	85.8	37.4	46.5
C.V. (%)		18.4	13.9	15.1	6.8	7.8	4.0	12.9	13.3
L.S.D. (5%)		9.7	10.6	15.1	7.0	6.6	7.1	9.8	12.6
Row Sp. (In.)		30	30	30	14	14	7	30	30
Rows/Plot		4	4	4	4	4	5	2	2
Reps		2	2	3	2	2	2	2	2

PRELIMINARY TEST 0, 2013

YIELD RANK

Strain	Yield Rank	Morris MN	Rosemount MN	Casselton ND	St. Pauls ONT	Woodstock ONT	St. Mathieu de-Beloeil QUE	Volga SD	Watertown SD
Sheyenne (0)	16	1	12	20	22	6	2	12	28
MN1410 (I)	1	31	8	8	1	2	1	11	6
Surge (L)	4	34	7	6	31	5	18	7	2
MN0095 (E)	27	28	19	13	35	29	35	5	29
M07-267006	17	17	26	28	8	19	29	27	13
M07-278126	15	6	20	17	28	15	15	14	10
M07-340035	27	14	30	27	20	12	32	25	25
M07-352123	33	14	32	33	24	23	27	19	19
M07-355016	34	3	26	12	30	33	33	33	24
M07-396047	25	2	5	29	29	22	25	22	16
M07-396099	32	9	26	25	21	24	30	29	20
M08-144017	35	21	21	14	33	28	20	18	35
M08-154093	10	32	22	25	3	21	5	28	5
ND09-5798	12	27	2	11	14	18	8	17	31
ND10-2762	14	21	5	23	23	31	19	9	9
ND10-2933	29	17	24	32	16	27	10	16	21
ND10-3067	21	33	17	15	11	14	3	26	32
ND10-3315	20	23	1	35	17	16	7	1	34
ND10-3318	12	29	29	24	7	7	13	3	30
ND10-3330	18	19	35	9	25	4	6	2	33
ND10-3413	23	9	8	16	34	34	24	31	3
ND10-3434	24	4	34	2	27	32	26	32	12
ND10-3459	30	5	14	30	32	35	28	23	4
ND10-4485	26	8	30	22	26	20	14	8	27
ND10-4518	9	7	13	19	9	11	21	10	22
OAC 11-25C	2	11	4	7	6	3	12	21	1
OAC 11-34C	21	12	11	34	4	9	9	30	26
OAC 11-43C	3	26	14	21	2	1	4	6	7
SD10CV-0004	8	24	33	5	15	13	22	13	17
SD10CV-0066	5	25	16	1	12	8	16	20	15
SD10CV-0096	6	35	3	4	18	17	11	15	18
SD10CV-0129	11	12	10	31	19	26	31	4	8
SD10CV-0140	7	30	18	3	5	25	23	24	11
SD10CV-0152	19	14	23	18	13	10	34	34	14
SD10CV-0156	30	21	24	9	10	30	17	35	23

PRELIMINARY TEST 0, 2013

MATURITY (date)

Strain	Mean 8 Tests	Morris MN	Rosemount MN	Casselton ND	St. Pauls ONT	Woodstock ONT	St. Mathieu de-Beloeil QUE	Volga SD	Watertown SD
Sheyenne (0)	9/21	9/22	9/16	9/28	9/19	10/7	9/20	9/9	9/21
MN1410 (I)	6.6	5	5	8	6	8	8	7	6
Surge (L)	1.4	0	5	0	1	-1	3	1	2
MN0095 (E)	-5.9	-3	-2	-11	-8	-10	-9	-3	-1
M07-267006	-2.1	-1	0	-5	-3	2	-9	0	-1
M07-278126	-4.0	-2	-5	-7	-9	-1	-10	3	-1
M07-340035	-5.4	-2	-4	-11	-10	-6	-10	1	-1
M07-352123	3.4	4	8	3	2	-1	5	0	6
M07-355016	-1.9	1	0	-6	-4	-1	-5	1	-1
M07-396047	-1.5	1	0	-1	-8	-4	1	-3	2
M07-396099	0.1	1	0	-1	-3	-2	2	0	4
M08-144017	-4.1	-1	1	-7	-9	-6	-7	-3	-1
M08-154093	-1.6	1	1	-3	-3	-5	-2	-1	-1
ND09-5798	0.5	4	5	-2	-1	-2	4	-3	-1
ND10-2762	-1.9	2	1	-1	-6	-4	0	-6	-1
ND10-2933	-0.1	1	3	-1	-2	-3	1	0	0
ND10-3067	1.0	3	6	-2	3	-1	1	-1	-1
ND10-3315	-1.0	1	3	-2	-7	-2	0	0	-1
ND10-3318	-1.6	0	1	-3	-5	-1	0	-4	-1
ND10-3330	-0.9	0	3	-3	-2	0	-1	-3	-1
ND10-3413	-1.8	2	-1	-5	-3	0	-4	-2	-1
ND10-3434	-2.1	3	0	-5	-6	-2	-5	-1	-1
ND10-3459	-1.1	3	-1	-2	-2	0	0	-6	-1
ND10-4485	-3.9	-1	0	-6	-8	-7	-5	-3	-1
ND10-4518	-3.0	2	1	-3	-8	-7	-6	-2	-1
OAC 11-25C	0.4	4	5	-3	-2	-4	2	0	1
OAC 11-34C	0.8	4	5	-5	2	-3	-1	1	3
OAC 11-43C	2.0	3	7	-2	1	-2	1	6	2
SD10CV-0004	5.5	9	7	7	4	4	8	3	2
SD10CV-0066	3.6	5	5	6	6	-3	6	2	2
SD10CV-0096	2.5	6	5	8	1	-3	4	-5	4
SD10CV-0129	6.9	9	11	6	8	1	8	4	8
SD10CV-0140	6.1	10	7	7	5	2	6	5	7
SD10CV-0152	3.3	7	5	3	2	-3	4	7	1
SD10CV-0156	2.9	5	9	2	1	-2	0	6	2
Date Planted	5/23	5/29	5/24	5/13	5/17	6/18	5/28	5/9	5/20
Days to Mature	121	116	115	138	125	111	115	123	124

PRELIMINARY TEST 0, 2013

LODGING (score)

Strain	Mean 8 Tests	Morris MN	Rosemount MN	Casselton ND	St. Pauls ONT	Woodstock ONT	St. Mathieu de-Beloeil QUE	Volga SD	Watertown SD
Sheyenne (0)	1.2	1.0	2.5	1.3	1.0	1.1	1.0	1.0	1.0
MN1410 (I)	1.6	1.0	2.5	2.7	1.2	1.1	1.0	2.0	1.5
Surge (L)	1.2	1.0	2.0	1.0	1.3	1.0	1.0	1.0	1.0
MN0095 (E)	1.3	1.0	3.0	1.0	1.0	1.0	1.0	1.0	1.0
M07-267006	1.5	1.0	2.5	1.3	2.1	1.9	1.0	1.0	1.5
M07-278126	1.3	1.0	3.0	1.0	1.1	1.1	1.0	1.0	1.0
M07-340035	1.4	1.0	3.0	1.0	1.1	1.2	0.9	2.0	1.0
M07-352123	1.2	1.0	2.0	1.0	1.4	1.0	1.0	1.0	1.0
M07-355016	1.4	1.0	3.0	1.3	1.3	1.2	1.0	1.0	1.0
M07-396047	1.4	1.0	3.0	1.0	1.2	1.3	1.0	1.5	1.0
M07-396099	1.2	1.0	2.0	1.0	1.4	1.0	1.0	1.0	1.0
M08-144017	1.3	1.0	2.5	1.0	1.0	2.1	1.0	1.0	1.0
M08-154093	1.1	1.0	1.5	1.0	1.0	1.1	1.0	1.0	1.0
ND09-5798	1.2	1.0	2.5	1.0	1.0	1.1	0.9	1.0	1.0
ND10-2762	1.3	1.0	3.0	1.3	1.0	1.3	1.0	1.0	1.0
ND10-2933	1.3	1.0	3.0	1.3	1.1	1.0	0.9	1.0	1.0
ND10-3067	1.3	1.0	2.0	1.7	1.2	1.1	1.0	1.0	1.0
ND10-3315	1.2	1.0	2.5	1.0	1.0	1.0	1.0	1.0	1.0
ND10-3318	1.2	1.0	2.0	1.0	1.1	1.2	1.0	1.0	1.0
ND10-3330	1.2	1.0	2.0	1.0	1.0	1.1	1.0	1.5	1.0
ND10-3413	1.2	1.0	2.5	1.0	1.0	1.3	1.0	1.0	1.0
ND10-3434	1.1	1.0	2.0	1.0	1.0	1.1	1.0	1.0	1.0
ND10-3459	1.2	1.0	2.5	1.0	1.0	1.0	1.0	1.0	1.0
ND10-4485	1.2	1.0	2.0	1.0	1.2	1.0	1.0	1.0	1.0
ND10-4518	1.1	1.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0
OAC 11-25C	1.7	1.0	3.0	1.3	1.2	1.9	1.0	3.0	1.0
OAC 11-34C	1.7	1.0	3.0	1.0	1.6	1.4	1.0	3.0	1.5
OAC 11-43C	1.2	1.0	2.5	1.0	1.2	1.2	1.0	1.0	1.0
SD10CV-0004	1.2	1.0	2.0	1.0	1.5	1.2	1.0	1.0	1.0
SD10CV-0066	1.2	1.0	2.0	1.3	1.0	1.0	1.5	1.0	1.0
SD10CV-0096	1.2	1.0	2.0	1.3	1.0	1.3	1.0	1.0	1.0
SD10CV-0129	1.1	1.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0
SD10CV-0140	1.5	1.0	2.5	2.0	1.5	2.2	1.0	1.0	1.0
SD10CV-0152	1.8	1.0	4.0	1.7	1.7	1.7	1.5	1.0	1.5
SD10CV-0156	1.9	1.0	3.5	3.0	2.1	2.8	1.0	1.0	1.0

PRELIMINARY TEST 0, 2013

PLANT HEIGHT (inches)

Strain	Mean 8 Tests	Morris MN	Rosemount MN	Casselton ND	St. Pauls ONT	Woodstock ONT	St. Mathieu de-Beloeil QUE	Volga SD	Watertown SD
Sheyenne (0)	30	21	29	34	29	33	28	33	34
MN1410 (I)	32	26	28	33	36	38	29	36	32
Surge (L)	30	23	29	32	28	35	22	33	36
MN0095 (E)	26	19	25	28	26	31	22	31	28
M07-267006	33	26	32	30	37	36	31	32	39
M07-278126	30	21	31	30	29	32	26	35	38
M07-340035	27	20	27	28	28	30	23	32	26
M07-352123	32	21	31	32	34	32	30	39	34
M07-355016	27	21	27	29	27	31	25	29	30
M07-396047	29	23	27	31	28	28	23	35	33
M07-396099	26	21	24	29	25	24	21	29	33
M08-144017	27	20	27	30	25	30	27	36	21
M08-154093	26	18	26	28	29	24	25	29	29
ND09-5798	26	20	25	30	28	27	25	28	26
ND10-2762	27	21	26	32	28	29	25	28	30
ND10-2933	30	21	30	31	33	32	27	37	32
ND10-3067	29	21	30	32	32	31	27	35	27
ND10-3315	30	22	28	32	32	29	27	36	30
ND10-3318	28	24	28	31	30	32	27	27	25
ND10-3330	29	21	26	31	31	33	28	38	26
ND10-3413	26	20	25	28	26	29	22	28	27
ND10-3434	26	19	25	28	25	30	22	35	27
ND10-3459	26	19	26	30	25	25	21	30	31
ND10-4485	29	23	28	32	29	30	24	27	36
ND10-4518	28	23	29	28	29	28	24	32	28
OAC 11-25C	30	24	27	30	31	34	25	33	37
OAC 11-34C	33	26	29	30	35	36	29	42	37
OAC 11-43C	28	22	28	29	25	33	25	35	29
SD10CV-0004	29	24	26	31	30	30	26	32	32
SD10CV-0066	28	22	24	27	26	30	26	35	34
SD10CV-0096	28	22	24	31	29	30	27	29	29
SD10CV-0129	27	24	23	25	30	28	26	28	28
SD10CV-0140	32	26	28	32	33	31	29	37	36
SD10CV-0152	31	26	24	31	34	36	26	36	35
SD10CV-0156	29	20	28	30	33	30	30	30	31

PRELIMINARY TEST 0, 2013

SEED QUALITY (score)

Strain	Mean 8 Tests	Morris MN	Rosemount MN	Casselton ND	St. Pauls ONT	Woodstock ONT	St. Mathieu de-Beloeil QUE	Volga SD	Watertown SD
Sheyenne (0)	1.5	1.0	1.0	2.0	1.5	1.5	2.0	2.0	1.0
MN1410 (I)	1.6	1.0	2.0	2.0	2.0	1.5	2.0	1.0	1.0
Surge (L)	1.6	2.0	2.0	2.0	1.5	1.5	1.5	1.0	1.0
MN0095 (E)	1.3	2.0	2.0	1.0	1.5	1.0	1.0	1.0	1.0
M07-267006	1.4	2.0	1.0	1.0	1.5	1.5	2.0	1.0	1.0
M07-278126	1.5	2.0	2.0	1.0	1.5	1.5	2.0	1.0	1.0
M07-340035	1.6	2.0	2.0	1.0	1.5	1.5	2.0	2.0	1.0
M07-352123	1.9	2.0	2.0	2.0	2.0	1.5	2.5	2.0	1.0
M07-355016	1.4	1.0	2.0	2.0	1.5	1.0	1.5	1.0	1.0
M07-396047	2.3	3.0	2.0	5.0	2.0	1.5	2.5	1.0	1.0
M07-396099	1.8	2.0	3.0	2.0	2.0	1.5	2.0	1.0	1.0
M08-144017	1.8	2.0	1.0	1.0	2.5	2.0	2.5	2.0	1.0
M08-154093	1.5	2.0	3.0	1.0	1.5	1.5	1.0	1.0	1.0
ND09-5798	1.6	3.0	2.0	1.0	1.5	1.0	2.0	1.0	1.0
ND10-2762	1.3	1.0	1.0	2.0	1.5	1.0	2.0	1.0	1.0
ND10-2933	1.8	1.0	2.0	4.0	2.0	1.5	2.0	1.0	1.0
ND10-3067	1.8	2.0	2.0	3.0	2.0	1.5	2.0	1.0	1.0
ND10-3315	1.8	2.0	2.0	3.0	1.5	1.0	2.5	1.0	1.0
ND10-3318	1.7	2.0	2.0	2.0	2.0	1.0	2.5	1.0	1.0
ND10-3330	1.4	1.0	1.0	2.0	2.0	1.0	2.0	1.0	1.0
ND10-3413	1.8	2.0	1.0	3.0	2.5	2.0	2.0	1.0	1.0
ND10-3434	1.9	3.0	1.0	2.0	2.5	2.5	2.5	1.0	1.0
ND10-3459	1.7	2.0	2.0	2.0	1.5	2.0	2.0	1.0	1.0
ND10-4485	1.7	1.0	1.0	3.0	2.5	1.5	2.5	1.0	1.0
ND10-4518	1.4	1.0	2.0	1.0	1.5	1.5	2.0	1.0	1.0
OAC 11-25C	1.4	2.0	2.0	1.0	1.5	1.0	1.0	2.0	1.0
OAC 11-34C	1.6	2.0	3.0	1.0	1.5	1.0	2.0	1.0	1.0
OAC 11-43C	1.6	1.0	2.0	3.0	1.5	1.5	1.5	1.0	1.0
SD10CV-0004	1.4	2.0	1.0	1.0	1.5	1.5	2.5	1.0	1.0
SD10CV-0066	1.5	2.0	2.0	1.0	1.5	1.5	2.0	1.0	1.0
SD10CV-0096	1.8	2.0	3.0	2.0	1.5	1.5	2.5	1.0	1.0
SD10CV-0129	1.6	3.0	1.0	1.0	1.5	1.0	2.0	2.0	1.0
SD10CV-0140	1.8	2.0	3.0	1.0	1.5	1.5	1.5	3.0	1.0
SD10CV-0152	1.8	2.0	3.0	1.0	2.0	1.5	2.0	2.0	1.0
SD10CV-0156	2.0	2.0	1.0	5.0	1.5	1.5	3.0	1.0	1.0

PRELIMINARY TEST 0, 2013

SEED SIZE (g/100)

Strain	Mean 8 Tests	Morris MN	Rosemount MN	Casselton ND	St. Pauls ONT	Woodstock ONT	St. Mathieu de-Beloeil QUE	Volga SD	Watertown SD
Sheyenne (0)	15.5	13.2	15.0	15.3	15.0	17.8	18.8	11.9	17.0
MN1410 (I)	17.5	15.2	15.4	17.2	17.9	20.5	21.4	13.0	19.1
Surge (L)	19.3	16.1	19.5	19.5	20.4	21.8	23.4	14.2	19.2
MN0095 (E)	14.2	11.8	17.4	14.7	12.2	15.4	14.9	13.2	13.9
M07-267006	18.9	17.0	16.8	18.4	18.8	21.7	22.5	15.5	20.1
M07-278126	16.5	13.3	15.4	14.4	15.7	18.6	17.0	12.1	25.6
M07-340035	17.5	14.9	16.6	17.4	17.5	19.9	21.3	14.1	18.3
M07-352123	17.2	15.8	16.9	17.3	16.8	18.8	20.4	14.3	17.6
M07-355016	13.9	11.5	15.5	12.8	13.8	15.9	16.2	11.7	13.5
M07-396047	17.5	16.2	17.7	16.8	17.3	18.1	20.2	15.1	18.4
M07-396099	15.4	13.4	13.7	17.2	16.2	16.5	18.8	11.1	16.0
M08-144017	18.9	14.7	19.5	16.6	19.6	21.3	23.9	15.1	20.2
M08-154093	18.3	16.4	18.1	17.2	18.9	19.8	22.4	13.6	19.7
ND09-5798	16.9	16.2	17.1	17.0	16.0	18.6	20.3	13.0	17.1
ND10-2762	14.5	12.8	13.7	20.0	13.1	14.9	15.7	11.5	13.9
ND10-2933	15.5	13.4	16.1	15.1	15.5	16.9	18.3	12.0	16.7
ND10-3067	15.6	14.7	15.0	16.8	13.6	17.2	18.2	12.9	16.3
ND10-3315	16.1	13.9	15.9	17.1	14.3	16.9	18.8	15.1	16.7
ND10-3318	15.9	14.3	16.3	15.8	14.6	17.5	19.2	13.9	15.5
ND10-3330	15.6	12.6	15.8	14.8	15.3	16.8	18.5	14.0	16.6
ND10-3413	15.4	14.7	15.9	15.2	13.5	17.2	18.2	11.6	16.7
ND10-3434	15.2	15.4	15.2	14.8	15.0	15.6	17.6	11.0	16.6
ND10-3459	15.3	15.2	14.3	16.5	15.2	14.9	18.4	11.9	16.2
ND10-4485	15.8	13.9	16.0	15.1	16.8	15.0	18.9	13.3	17.6
ND10-4518	16.8	16.9	16.5	18.0	17.1	17.0	18.5	12.7	17.9
OAC 11-25C	18.6	18.9	16.5	18.2	18.0	20.3	21.5	14.7	20.6
OAC 11-34C	18.8	19.3	17.4	15.4	20.8	20.9	22.5	13.9	20.5
OAC 11-43C	21.8	21.0	19.5	20.2	22.5	23.2	24.6	19.2	24.1
SD10CV-0004	19.2	17.0	19.0	19.5	20.9	22.0	22.6	14.0	18.4
SD10CV-0066	19.4	17.8	18.0	17.8	20.4	22.3	24.8	14.9	19.2
SD10CV-0096	19.1	16.9	19.3	20.8	19.0	20.8	22.3	14.6	19.1
SD10CV-0129	18.9	19.2	16.9	16.4	17.8	21.5	21.2	17.9	20.6
SD10CV-0140	17.7	16.2	17.7	19.6	17.9	17.9	19.2	14.6	18.5
SD10CV-0152	17.1	17.2	16.3	16.2	17.6	19.9	21.2	13.4	15.3
SD10CV-0156	16.1	14.6	15.6	16.0	16.8	17.4	19.6	12.1	16.8

PRELIMINARY TEST 0, 2013

PROTEIN (%)

Strain	Mean 7 Tests	Morris MN	Rosemount MN	Casselton ND	St. Pauls* ONT	Woodstock* ONT	St. Mathieu de-Beloeil QUE	Volga SD
Sheyenne (0)	35.4	33.5	35.9	33.7	35.7	36.0	34.8	38.3
MN1410 (I)	36.3	35.0	35.5	34.6	36.4	37.6	36.5	38.6
Surge (L)	37.2	35.7	35.3	37.7	37.3	38.3	37.9	38.0
MN0095 (E)	35.7	35.0	35.9	34.5	35.3	37.5	34.8	36.8
M07-267006	36.4	37.0	34.5	35.8	35.8	37.7	36.2	37.6
M07-278126	34.4	33.9	36.8	30.3	34.5	36.3	32.4	37.0
M07-340035	37.3	37.4	38.5	35.1	36.1	37.6	35.5	40.7
M07-352123	35.7	34.8	35.8	34.6	34.9	36.1	36.2	37.7
M07-355016	36.3	35.3	35.2	35.1	35.4	37.8	34.7	40.7
M07-396047	36.2	35.4	35.0	34.9	36.2	37.7	36.9	37.2
M07-396099	37.1	35.7	37.7	35.2	36.0	38.8	36.1	40.1
M08-144017	35.5	36.1	34.7	34.6	34.4	36.9	35.5	36.5
M08-154093	36.3	35.8	34.7	34.5	36.1	37.4	36.1	39.2
ND09-5798	35.7	35.3	34.0	35.4	35.9	36.5	35.1	37.5
ND10-2762	35.8	35.1	36.7	36.2	34.8	35.8	35.0	37.1
ND10-2933	35.6	35.4	34.6	36.1	34.5	36.2	34.0	38.6
ND10-3067	35.3	34.8	36.5	34.0	33.7	35.8	34.4	38.1
ND10-3315	35.1	35.0	37.3	34.2	33.8	35.9	33.9	35.3
ND10-3318	34.9	35.1	36.8	31.7	34.4	35.8	34.5	36.1
ND10-3330	34.7	35.5	34.3	33.6	34.5	36.0	33.8	35.5
ND10-3413	36.8	36.2	36.2	33.8	36.5	38.2	36.6	39.8
ND10-3434	37.1	36.0	36.0	36.2	36.5	37.8	36.4	40.6
ND10-3459	36.6	36.2	36.1	34.8	36.7	37.8	36.8	38.1
ND10-4485	35.4	35.0	35.0	34.7	35.7	36.3	34.0	37.2
ND10-4518	34.4	33.5	36.3	34.3	33.7	34.9	32.5	35.5
OAC 11-25C	35.3	35.9	34.2	33.0	34.3	37.1	35.0	37.6
OAC 11-34C	37.2	35.7	36.6	35.5	38.0	38.4	37.2	39.1
OAC 11-43C	36.6	36.6	36.7	35.3	35.1	37.1	36.4	38.9
SD10CV-0004	37.4	36.2	37.0	35.0	37.4	39.2	37.4	39.5
SD10CV-0066	36.9	36.4	34.8	36.8	35.8	38.1	37.4	39.2
SD10CV-0096	36.0	35.6	35.1	33.8	35.3	37.1	35.9	38.9
SD10CV-0129	38.4	37.8	36.0	38.0	38.5	39.9	38.7	40.0
SD10CV-0140	37.2	36.8	36.1	35.0	37.3	38.3	36.7	40.5
SD10CV-0152	37.0	37.0	36.1	33.6	37.0	38.1	37.5	39.9
SD10CV-0156	37.7	36.9	38.3	33.3	38.7	39.4	35.8	41.1

* Protein and Oil values converted to 13% moisture basis.

PRELIMINARY TEST 0, 2013

OIL (%)

Strain	Mean 7 Tests	Morris MN	Rosemount MN	Casselton ND	St. Pauls ONT	Woodstock ONT	St. Mathieu de-Beloeil QUE	Volga SD
Sheyenne (0)	18.1	19.6	18.0	19.1	17.5	17.1	18.3	16.8
MN1410 (I)	18.1	18.7	18.6	18.5	18.2	17.4	17.9	17.3
Surge (L)	18.2	19.5	18.6	18.4	17.8	17.3	17.5	18.0
MN0095 (E)	18.8	19.5	19.5	19.2	18.0	17.7	19.1	18.3
M07-267006	17.7	17.4	18.6	18.6	17.4	17.0	17.6	17.4
M07-278126	18.5	19.5	17.0	21.1	17.7	17.5	19.1	17.3
M07-340035	17.4	17.3	16.9	18.5	17.6	17.4	17.7	16.1
M07-352123	18.3	18.7	18.9	18.8	18.1	17.6	17.8	17.9
M07-355016	18.4	19.2	18.2	19.1	18.4	18.0	18.9	16.7
M07-396047	18.0	18.5	18.7	18.6	18.0	17.4	17.9	17.0
M07-396099	17.3	18.1	16.7	18.7	17.1	17.2	17.4	15.8
M08-144017	18.8	19.1	18.1	20.0	19.0	17.8	18.9	19.0
M08-154093	18.6	19.1	18.6	19.9	18.7	18.4	18.5	17.1
ND09-5798	18.2	18.3	19.1	19.1	18.1	17.7	18.0	17.1
ND10-2762	18.1	19.1	18.1	17.8	18.0	17.7	18.2	17.9
ND10-2933	18.1	18.7	18.1	18.9	18.0	17.4	18.4	17.1
ND10-3067	18.2	18.5	17.7	19.3	18.5	17.7	18.4	17.4
ND10-3315	18.3	18.8	17.1	18.5	18.4	17.7	18.8	18.7
ND10-3318	18.5	19.0	17.6	20.3	18.2	17.5	18.4	18.3
ND10-3330	18.3	18.4	18.8	19.0	17.8	17.7	18.3	18.2
ND10-3413	18.2	18.7	18.5	20.5	17.8	16.7	18.4	16.7
ND10-3434	18.0	19.0	18.0	19.1	17.7	17.1	18.0	16.8
ND10-3459	18.1	18.1	18.0	19.2	17.7	17.1	18.4	18.0
ND10-4485	18.6	19.3	18.5	19.2	18.1	17.9	19.3	18.0
ND10-4518	18.4	19.2	18.5	17.7	18.2	18.3	19.3	17.6
OAC 11-25C	18.1	18.2	18.6	18.7	18.4	17.2	18.2	17.4
OAC 11-34C	17.5	18.5	17.6	17.9	17.1	17.2	17.1	16.8
OAC 11-43C	18.3	18.5	17.8	18.1	19.0	18.1	18.0	18.7
SD10CV-0004	18.0	18.4	18.4	18.6	17.8	16.9	17.8	18.2
SD10CV-0066	18.0	17.8	18.8	17.9	18.8	17.6	17.7	17.3
SD10CV-0096	18.2	18.4	18.5	19.2	18.7	17.8	18.3	16.5
SD10CV-0129	17.2	17.8	17.7	17.3	17.3	15.9	16.9	17.7
SD10CV-0140	17.3	17.3	17.7	17.7	17.6	16.6	17.5	16.8
SD10CV-0152	17.9	17.7	18.8	19.4	18.0	17.3	17.6	16.3
SD10CV-0156	17.2	16.5	17.8	19.1	17.1	16.6	17.9	15.4

Uniform Test I, 2013

Ent.	Strain	Parentage	Seed Source	Previous Testing	Gen. Comp.	Unique Traits
1	MN1410 (I)	Unknown	Orf	**8**	F5	
2.	IA1022 (SCN)	Dairyland 98822 x A00-711024	Fehr	**7**	F5	SCN
3.	Sheyenne (0)	Pioneer 9071 x A96-492041	Helms	**6**	F4	Rps1-c
4.	A10-456040	A06-915014 x Syngenta 04KL015644	Fehr			7% saturates
5.	M06-337011	Parker x ND02-971	Orf	PTI	F5	OIL
6.	SD08CV-1043	M96-355009 x M97-357138	Jiang	1	F5	
7.	SD09CV-1040	IA1008 x Surge	Jiang	PTI	F5	
8.	U09-105007	OAC 05-21 x U03-300134	Graef	1	F5	Rps, Dt
9.	U09-118017	U01-190311 x U02-242055	Graef	PTI	F4	
10.	U09-210051	U01-190311 x U03-200317	Graef	1	F5	Rps

UNIFORM TEST I, 2013

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	Chlorosis Score Humboldt IA	Chlorosis Score Danvers MN	Shattering Score Manhattan KS	Green Stem Score Wanatah IN
MN1410 (I)	WGBDYBfI	2.6	3.5	2.0	1.0
IA1022 (SCN)	PGTSYYI	2.0	3.1	3.0	1.0
Sheyenne (0)	PGBDYYI	3.3	3.3	2.0	1.0
A10-456040	PGTDYIbI	3.9	3.6	2.0	1.0
M06-337011	WGBDYBfI	3.4	3.8	2.0	1.0
SD08CV-1043	PGBDYIbI	3.0	3.3	2.0	1.0
SD09CV-1040	WGBDYBfI	3.8	3.1	2.0	1.0
U09-105007	PTBDYBrI	3.1	2.9	3.0	1.0
U09-118017	WTBDYYI	3.5	3.6	2.0	1.0
U09-210051	PTBDYBlI	3.7	3.8	1.0	1.0

UNIFORM TEST I, 2013

REGIONAL SUMMARY

	Yield	Rank	Maturity	Lodging	Plant Height	Seed Quality	Seed Size	Composition Protein	Composition Oil
No. of Tests	15	15	11	13	13	10	14	4	4
Strain	bu/a	No.	Date	Score	In.	Score	g/100	%	%
MN1410 (I)	56.6	6	9/18	1.6	32	2.0	17.2	35.6	19.0
IA1022 (SCN)	59.9	3	4.5	1.7	31	1.8	16.4	33.8	19.4
Sheyenne (0)	48.2	10	-5.1	1.2	28	2.0	16.4	34.6	18.6
A10-456040	58.1	5	6.7	1.1	28	1.8	16.4	35.2	18.2
M06-337011	52.9	7	-0.0	1.7	32	2.0	17.8	35.5	19.2
SD08CV-1043	50.2	9	-2.5	1.3	29	1.8	16.9	36.3	18.3
SD09CV-1040	52.7	8	1.0	1.6	31	2.0	18.1	36.4	18.1
U09-105007	62.0	1	1.8	1.1	25	1.8	18.0	33.3	20.1
U09-118017	60.6	2	4.7	1.2	30	1.8	17.1	33.9	19.4
U09-210051	58.8	4	5.5	1.5	31	1.7	16.9	34.2	18.8

124.1 Days After Planting

UNIFORM TEST I, 2013

2012-2013 2-YEAR MEAN

	Yield	Rank	Maturity	Lodging	Plant Height	Seed Quality	Seed Size	Composition Protein	Composition Oil
No. of Tests	27	27	25	25	25	19	28	11	11
Strain	bu/a	No.	Date	Score	In.	Score	g/100	%	%
MN1410 (I)	54.4	4	9/12	1.4	33	2.0	16.4	35.5	19.1
IA1022 (SCN)	58.6	1	5.2	1.6	33	1.7	15.7	33.0	20.0
Sheyenne (0)	47.0	6	-4.9	1.2	31	2.1	15.6	34.2	19.2
SD08CV-1043	51.6	5	-0.7	1.3	30	2.1	15.8	34.7	19.2
U09-105007	57.4	2	3.1	1.1	27	1.7	16.0	33.3	19.7
U09-210051	55.8	3	3.4	1.3	31	1.6	15.0	34.6	18.7

119.5 Days After Planting

UNIFORM TEST I, 2013

YIELD (bu/a)

Strain	Mean 15 Tests	Charles City IA	Eldora IA	Kanawha IA	Lafayette IN	Wanatah IN	Ingham County MI	Saginaw County MI	Lamberton MN
MN1410 (I)	56.6	57.7	63.4	47.4	65.9	58.6	32.5	33.6	45.5
IA1022 (SCN)	59.9	49.3	59.6	56.2	66.4	56.6	41.0	45.9	55.1
Sheyenne (0)	48.2	43.6	52.3	36.3	50.1	43.6	25.2	40.6	40.2
A10-456040	58.1	51.4	56.0	46.5	67.9	55.8	39.1	50.6	47.8
M06-337011	52.9	50.4	56.9	45.2	60.7	52.6	28.7	35.4	45.5
SD08CV-1043	50.2	49.8	49.8	38.1	58.2	48.5	27.6	36.9	41.3
SD09CV-1040	52.7	45.4	52.4	41.6	62.2	49.2	33.0	36.9	46.8
U09-105007	62.0	54.6	63.5	49.5	68.0	53.1	44.6	46.9	56.4
U09-118017	60.6	51.2	55.3	47.4	70.4	54.8	38.4	43.3	54.9
U09-210051	58.8	48.8	61.5	45.5	67.1	58.6	40.0	42.3	47.0
Location Mean		50.2	57.1	45.4	63.7	53.1	35.0	41.2	48.1
C.V. (%)		7.6	7.9	7.4	5.9	8.2	13.4	11.5	8.6
L.S.D. (5%)		8.7	10.2	7.6	6.5	7.5	13.2	13.4	7.0
Row Sp. (In.)		27	27	30	30	30	15	15	30
Rows/Plot		4	4	4	4	4	6	6	4
Reps		2	2	2	3	3	2	2	3

*Data not included in mean.

UNIFORM TEST I, 2013

YIELD RANK

Strain	Yield Rank	Charles City IA	Eldora IA	Kanawha IA	Lafayette IN	Wanatah IN	Ingham County MI	Saginaw County MI	Lamberton MN
MN1410 (I)	6	1	2	4	6	1	7	10	7
IA1022 (SCN)	3	7	4	1	5	3	2	3	2
Sheyenne (0)	10	10	9	10	10	10	10	6	10
A10-456040	5	3	6	5	3	4	4	1	4
M06-337011	7	5	5	7	8	7	8	9	8
SD08CV-1043	9	6	10	9	9	9	9	7	9
SD09CV-1040	8	9	8	8	7	8	6	8	6
U09-105007	1	2	1	2	2	6	1	2	1
U09-118017	2	4	7	3	1	5	5	4	3
U09-210051	4	8	3	6	4	1	3	5	5

UNIFORM TEST I, 2013

YIELD (bu/a)

Strain	Waseca MN	Cotesfield NE	Mead NE	Phillips NE	St. Hyacinthe Que.	Volga SD	Watertown SD
MN1410 (I)	62.6	63.3	81.4	80.8	64.5	41.3	51.1
IA1022 (SCN)	65.4	69.8	85.9	88.0	63.0	41.8	54.5
Sheyenne (0)	55.7	54.4	69.6	51.2	62.5	37.2	60.5
A10-456040	62.1	73.1	91.6	79.8	68.2	28.3	53.8
M06-337011	62.3	48.9	76.7	73.7	62.2	33.1	61.5
SD08CV-1043	55.9	53.3	69.6	67.4	61.2	38.5	57.5
SD09CV-1040	55.3	59.4	82.3	80.7	59.8	37.2	48.5
U09-105007	63.3	68.9	94.7	90.5	65.7	51.5	58.1
U09-118017	66.7	75.7	86.7	83.8	69.2	47.5	64.0
U09-210051	69.3	62.2	86.6	86.7	73.3	34.5	58.0
Location Mean	61.9	62.9	82.5	78.3	65.0	39.1	56.8
C.V. (%)	8.0	9.2	5.5	6.2	6.1	11.4	11.5
L.S.D. (5%)	8.2	13.0	11.7	11.8	6.9	7.7	11.3
Row Sp. (In.)	30	30	30	30	14	30	30
Rows/Plot	4	4	4	4	4	2	2
Reps	3	2	2	2	3	3	3

UNIFORM TEST I, 2013

YIELD RANK

Strain	Waseca MN	Cotesfield NE	Mead NE	Phillips NE	St. Hyacinthe Que.	Volga SD	Watertown SD
MN1410 (I)	5	5	7	5	5	4	9
IA1022 (SCN)	3	3	5	2	6	3	7
Sheyenne (0)	9	8	9	10	7	6	3
A10-456040	7	2	2	7	3	10	8
M06-337011	6	10	8	8	8	9	2
SD08CV-1043	8	9	10	9	9	5	6
SD09CV-1040	10	7	6	6	10	7	10
U09-105007	4	4	1	1	4	1	4
U09-118017	2	1	3	4	2	2	1
U09-210051	1	6	4	3	1	8	5

UNIFORM TEST I, 2013

MATURITY (date)

Strain	Mean 11 Tests	Charles City IA	Eldora IA	Kanawha IA	Lafayette IN	Wanatah IN	Ingham County MI	Saginaw County MI	Lamberton MN
MN1410 (I)	9/18		9/15	9/24	9/25	9/6			9/23
IA1022 (SCN)	4.5		6	1	6	5			5
Sheyenne (0)	-5.1		-7	-9	-4	-5			-1
A10-456040	6.7		9	3	8	8			6
M06-337011	-0.0		1	2	-3	2			3
SD08CV-1043	-2.5		-5	-6	-2	2			-1
SD09CV-1040	1.0		-2	1	2	4			2
U09-105007	1.8		3	0	4	5			2
U09-118017	4.7		7	3	4	9			4
U09-210051	5.5		7	3	6	8			4
Date Planted	5/16		5/17	5/13	5/22	5/14	6/4	5/18	5/17
Days to Mature	124		121	134	126	115			129

UNIFORM TEST I, 2013

LODGING (score)

Strain	Mean 13 Tests	Charles City IA	Eldora IA	Kanawha IA	Lafayette IN	Wanatah IN	Ingham County MI	Saginaw County MI	Lamberton MN
MN1410 (I)	1.6	2.3	2.5	1.0	1.2	1.2	1.0	1.0	1.0
IA1022 (SCN)	1.7	1.8	1.8	1.5	1.2	1.0	1.0	1.0	1.0
Sheyenne (0)	1.2	1.8	1.8	1.0	1.0	1.0	1.0	1.0	1.0
A10-456040	1.1	1.5	1.3	1.0	1.0	1.0	1.0	1.0	1.0
M06-337011	1.7	2.3	2.0	1.0	1.2	1.0	1.0	1.0	1.0
SD08CV-1043	1.3	1.8	1.5	1.3	1.0	1.0	1.0	1.0	1.0
SD09CV-1040	1.6	2.3	2.3	1.3	1.2	1.0	1.0	1.0	1.0
U09-105007	1.1	1.3	1.3	1.0	1.0	1.2	1.0	1.0	1.0
U09-118017	1.2	1.5	1.5	1.0	1.0	1.0	1.0	1.0	1.0
U09-210051	1.5	2.5	2.5	1.3	1.0	1.0	1.5	1.0	1.3

UNIFORM TEST I, 2013

MATURITY (date)

Strain	Waseca MN	Cotesfield NE	Mead NE	Phillips NE	St. Hyacinthe Que.	Volga SD	Watertown SD
MN1410 (I)	9/24		9/4	9/9	9/23	9/18	9/27
IA1022 (SCN)	7		8	2	6	2	3
Sheyenne (0)	-7		-5	-4	-2	-7	-5
A10-456040	7		8	3	9	6	7
M06-337011	1		-4	-3	3	0	-3
SD08CV-1043	-3		-2	-4	1	-4	-4
SD09CV-1040	1		1	-2	5	-4	3
U09-105007	2		5	1	0	-1	0
U09-118017	7		5	2	9	0	2
U09-210051	5		7	3	9	2	7
Date Planted	5/15	5/22	5/15	5/17	5/2	5/9	5/20
Days to Mature	132		112	115	144	132	130

UNIFORM TEST I, 2013

LODGING (score)

Strain	Waseca MN	Cotesfield NE	Mead NE	Phillips NE	St. Hyacinthe Que.	Volga SD	Watertown SD
MN1410 (I)	2.7		1.0	2.0		2.0	2.5
IA1022 (SCN)	2.7		2.0	2.0		2.0	3.0
Sheyenne (0)	2.0		1.0	1.0		1.0	1.0
A10-456040	2.0		1.0	1.0		1.0	1.0
M06-337011	2.0		2.0	3.0		2.0	2.0
SD08CV-1043	2.0		1.0	1.0		1.5	2.0
SD09CV-1040	2.3		1.0	2.0		2.0	2.0
U09-105007	2.0		1.0	1.0		1.0	1.0
U09-118017	2.0		1.0	1.0		1.0	1.0
U09-210051	2.0		2.0	2.0		1.0	1.0

UNIFORM TEST I, 2013

PLANT HEIGHT (inches)

Strain	Mean 13 Tests	Charles City IA	Eldora IA	Kanawha IA	Lafayette IN	Wanatah IN	Ingham County MI	Saginaw County MI	Lamberton MN
MN1410 (I)	32	33	36	24	37	32	25	27	30
IA1022 (SCN)	31	31	32	25	35	30	22	26	30
Sheyenne (0)	28	28	31	20	33	24	22	24	30
A10-456040	28	26	29	20	28	24	20	26	31
M06-337011	32	33	34	28	37	33	22	26	35
SD08CV-1043	29	29	29	23	33	26	20	24	29
SD09CV-1040	31	33	33	23	36	30	24	23	29
U09-105007	25	25	25	20	28	24	21	21	24
U09-118017	30	29	31	25	34	28	22	25	28
U09-210051	31	30	34	25	35	28	24	24	29

UNIFORM TEST I, 2013

SEED QUALITY (score)

Strain	Mean 10 Tests	Charles City IA	Eldora IA	Kanawha IA	Lafayette IN	Wanatah IN	Ingham County MI	Saginaw County MI	Lamberton MN
MN1410 (I)	2.0			2.0	1.5	1.5			3.0
IA1022 (SCN)	1.8			3.0	1.0	1.0			3.0
Sheyenne (0)	2.0			3.0	1.5	1.0			2.0
A10-456040	1.8			2.0	1.5	1.5			2.0
M06-337011	2.0			3.0	1.5	1.5			3.0
SD08CV-1043	1.8			2.0	1.5	1.5			2.0
SD09CV-1040	2.0			2.0	1.5	1.5			4.0
U09-105007	1.8			2.0	1.5	1.5			3.0
U09-118017	1.8			2.0	1.5	1.5			2.0
U09-210051	1.7			2.0	1.5	1.0			1.0

UNIFORM TEST I, 2013

PLANT HEIGHT (inches)

Strain	Waseca MN	Cotesfield NE	Mead NE	Phillips NE	St. Hyacinthe Que.	Volga SD	Watertown SD
MN1410 (I)	33		37		23	42	38
IA1022 (SCN)	33		33		21	44	41
Sheyenne (0)	29		30		21	36	40
A10-456040	27		32		24	38	33
M06-337011	28		34		24	40	41
SD08CV-1043	29		36		22	37	39
SD09CV-1040	30		36		22	39	42
U09-105007	27		29		19	31	28
U09-118017	31		37		25	37	34
U09-210051	35		38		29	39	34

UNIFORM TEST I, 2013

SEED QUALITY (score)

Strain	Waseca MN	Cotesfield NE	Mead NE	Phillips NE	St. Hyacinthe Que.	Volga SD	Watertown SD
MN1410 (I)	3.0		2.0	2.0	3.0	1.0	1.0
IA1022 (SCN)	2.0		2.0	2.0	2.3	1.0	1.0
Sheyenne (0)	3.0		2.0	2.0	3.7	1.0	1.0
A10-456040	2.0		2.0	2.0	3.0	1.0	1.0
M06-337011	2.0		2.0	2.0	3.0	1.0	1.0
SD08CV-1043	2.0		2.0	2.0	3.0	1.0	1.0
SD09CV-1040	1.0		2.0	2.0	4.0	1.0	1.0
U09-105007	1.0		2.0	2.0	3.0	1.0	1.0
U09-118017	2.0		2.0		3.0	1.0	1.0
U09-210051	2.0		2.0	2.0	3.0	1.0	1.0

UNIFORM TEST I, 2013

SEED SIZE (g/100)

Strain	Mean 14 Tests	Charles City IA	Eldora IA	Kanawha IA	Lafayette IN	Wanatah IN	Ingham County MI	Saginaw County MI	Lamberton MN
MN1410 (I)	17.2	17.8	16.7	18.7	15.5	17.2	15.5	16.8	18.7
IA1022 (SCN)	16.4	14.7	16.2	17.0	14.9	14.9	18.8	16.7	17.9
Sheyenne (0)	16.4	16.2	16.8	17.0	15.1	15.3	14.1	16.6	19.0
A10-456040	16.4	14.8	16.0	17.5	15.1	17.2	17.8	16.5	17.6
M06-337011	17.8	17.4	19.0	20.6	16.9	15.8	15.4	16.8	21.4
SD08CV-1043	16.9	17.1	16.0	16.5	15.6	17.2	15.4	15.5	19.0
SD09CV-1040	18.1	17.7	16.7	19.1	17.1	18.3	18.5	16.8	18.4
U09-105007	18.0	18.4	17.2	17.4	15.5	18.1	19.3	16.1	19.2
U09-118017	17.1	16.9	17.1	17.3	15.4	16.1	19.2	16.0	18.7
U09-210051	16.9	15.8	17.2	17.3	14.3	15.8	19.4	16.3	17.6

UNIFORM TEST I, 2013

SEED SIZE (g/100)

Strain	Waseca MN	Cotesfield NE	Mead NE	Phillips NE	St. Hyacinthe Que.	Volga SD	Watertown SD
MN1410 (I)	19.9		18.7	19.2	18.9	13.7	14.0
IA1022 (SCN)	17.7		17.5	17.7	17.0	13.6	15.3
Sheyenne (0)	16.9		18.0	18.9	17.0	12.1	16.1
A10-456040	18.1		16.5	19.5	16.4	11.7	14.8
M06-337011	18.8		18.5	19.5	18.5	13.4	17.8
SD08CV-1043	17.8		17.7	18.5	18.0	13.2	18.7
SD09CV-1040	18.8		19.4	20.1	18.7	14.0	20.0
U09-105007	20.0		17.5	19.3	18.4	15.3	20.7
U09-118017	18.8		18.7		18.0	13.1	17.4
U09-210051	17.5		17.9	19.5	17.6	12.7	17.6

UNIFORM TEST I, 2013

PROTEIN (%)

Strain	Mean 4 Tests	Lamberton MN	Waseca MN	St. Hyacinthe Que.	Volga SD
MN1410 (I)	35.6	35.9	34.9	34.3	37.2
IA1022 (SCN)	33.8	33.5	33.0	31.3	37.6
Sheyenne (0)	34.6	35.9	34.5	31.8	36.1
A10-456040	35.2	35.3	34.7	32.9	37.9
M06-337011	35.5	35.4	33.8	34.3	38.6
SD08CV-1043	36.3	36.8	35.0	34.2	39.4
SD09CV-1040	36.4	36.7	35.0	34.3	39.6
U09-105007	33.3	34.3	32.3	31.5	35.3
U09-118017	33.9	34.5	32.5	31.9	36.8
U09-210051	34.2	33.5	33.2	32.0	38.2

* Protein and Oil values converted to 13% moisture basis.

UNIFORM TEST I, 2013

OIL (%)

Strain	Mean 4 Tests	Lamberton MN	Waseca MN	St. Hyacinthe Que.	Volga SD
MN1410 (I)	19.0	19.8	19.2	18.3	18.7
IA1022 (SCN)	19.4	20.3	19.8	19.0	18.5
Sheyenne (0)	18.6	19.1	19.2	18.5	17.8
A10-456040	18.2	18.4	19.1	17.3	17.8
M06-337011	19.2	20.7	20.3	18.2	17.7
SD08CV-1043	18.3	19.1	19.0	17.9	17.3
SD09CV-1040	18.1	19.3	19.2	17.2	16.8
U09-105007	20.1	20.9	20.6	19.2	19.5
U09-118017	19.4	20.7	20.4	18.2	18.2
U09-210051	18.8	20.2	19.8	18.1	17.2

Preliminary Test IA, 2013

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.	AR12-128008	AR06-264007 x Golden Harvest 24040	Cianzio	F4	IDC
5.	AR12-128013	AR05-250101 x Golden Harvest 24040	Cianzio	F4	IDC
6.	AR12-128023	AR05-250110 x Golden Harvest 24040	Cianzio	F4	IDC
7.	AR12-128024	AR05-250110 x Golden Harvest 24040	Cianzio	F4	IDC
8.	AR12-128045	Syngenta 04RM820808 x AR05-150079	Cianzio	F4	SDS
9.	AR12-128047	AR05-150079 x Syngenta 04KL108370	Cianzio	F4	SDS
10.	AR12-128061	AR07-176049 x Syngenta 04KL108370	Cianzio	F4	SDS
11.	AR12-128065	AR07-176049 x Syngenta 04KL108370	Cianzio	F4	SDS
12.	AR12-128076	AR07-176049 x Balkan	Cianzio	F4	SDS
13.	AR12-128091	AR07-176075 x Syngenta 05JR200591	Cianzio	F4	
14.	AR12-128102	AR07-176077 x Syngenta 05JR200591	Cianzio	F4	
15.	AR12-228007	AR07-176037 x Syngenta 03JR101016	Cianzio	F4	BSR
16.	AR12-228022	AR06-264007 x Golden Harvest 24040	Cianzio	F4	IDC
17.	AR12-228068	AR05-250101 x Golden Harvest H-2285	Cianzio	F4	PR
18.	M07-266078	M02-113076 x MN0604	Orf	F5	
19.	M07-276085	MN0095 x MN1401	Orf	F5	
20.	M07-278122	M00-110002 x Sheyenne	Orf	F5	
21.	M07-352133	M01-242042 x M01-257033	Orf	F5	DIVERSITY
22.	M07-354108	MN1401 x MN1013	Orf	F5	DIVERSITY
23.	M07-392055	MN1410 x MTC00-112-53-20	Orf	F5	Slow Wilt
24.	M07-396118	Sheyenne x M01-257028	Orf	F5	Slow Wilt
25.	M07-404023	M02-489037 x M02-483059	Orf	F5	APHID
26.	M08-144031	MN0307SP x Hendricks	Orf	F5	Slow Wilt
27.	M08-144103	MN0307SP x Hendricks	Orf	F5	Slow Wilt
28.	M08-144119	MN0307SP x Hendricks	Orf	F5	Slow Wilt
29.	M08-154007	SD02-906 x U03-100612	Orf	F5	

PRELIMINARY TEST IA, 2013

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	Chlorosis Score Danvers MN	Shattering Score Manhattan KS
MN1410 (I)	WGBDYBfI	3.6	1.0
IA1022 (SCN)	PGTSYYI	3.4	2.0
Sheyenne (0)	PGBDYYI	2.9	2.0
AR12-128008	PGTDYIbI	2.8	2.0
AR12-128013	PGTDYIbI	2.8	3.0
AR12-128023	PGTDYIbI	3.3	1.0
AR12-128024	PGTDYIbI	3.0	2.0
AR12-128045	PTBDYBl+BrI	3.6	2.0
AR12-128047	PGTDYBfI	3.8	1.0
AR12-128061	PLt+T TIYBrI	3.9	2.0
AR12-128065	PTTIYBrI	3.6	2.0
AR12-128076	WTTDYYI	3.0	2.0
AR12-128091	PG+LtTDYBlI	3.1	2.0
AR12-128102	PTTDYBL+IbI	3.5	3.0
AR12-228007	PTTDYBrI	3.1	2.0
AR12-228022	PGTDYLibI	3.0	3.0
AR12-228068	PTBDYIbI	3.6	2.0
M07-266078	PTBDYBrI	3.5	1.0
M07-276085	PGBDYIbI	3.1	2.0
M07-278122	WGTIYYI	2.8	1.0
M07-352133	PTBDYBfI	2.8	1.0
M07-354108	PTTDYBr+YI	2.6	2.0
M07-392055	PTBDYBlI	3.0	2.0
M07-396118	PTBSYYI	3.3	2.0
M07-404023	WGTDYYI	3.9	3.0
M08-144031	W+PGBDYYI	3.1	2.0
M08-144103	WTBDYYI	2.6	1.0
M08-144119	PT+GB+TDYYI	2.8	1.0
M08-154007	PTBDYBlI	3.3	2.0

PRELIMINARY TEST IA, 2013

REGIONAL SUMMARY

Strain	Yield	Rank	Maturity	Lodging	Plant Height	Seed Quality	Seed Size	Composition	
								Protein	Oil
No. of Tests	10	10	9	9	9	7	9	4	4
	bu/a	No.	Date	Score	In.	Score	g/100	%	%
MN1410 (I)	62.3	13	9/19	1.5	34	1.7	17.5	35.6	18.8
IA1022 (SCN)	65.9	4	2.7	1.9	33	1.8	16.6	33.8	19.1
Sheyenne (0)	52.3	24	-5.0	1.2	31	1.8	16.3	34.0	18.6
AR12-128008	62.9	11	-0.8	1.5	29	1.2	16.4	34.8	19.0
AR12-128013	63.8	9	5.6	1.7	35	1.6	16.2	35.2	17.8
AR12-128023	60.8	15	4.6	2.4	33	1.4	16.6	34.9	18.5
AR12-128024	64.7	8	4.4	2.6	34	1.3	15.7	35.0	18.5
AR12-128045	61.2	14	2.3	1.3	29	1.9	15.7	34.9	18.5
AR12-128047	59.0	18	0.6	1.2	28	1.7	16.5	36.5	17.9
AR12-128061	64.9	7	3.9	1.5	33	2.6	17.9	35.8	17.1
AR12-128065	66.4	3	4.7	1.4	35	1.6	19.5	36.0	17.4
AR12-128076	56.9	21	4.4	1.6	33	1.8	18.9	37.8	16.8
AR12-128091	63.0	10	1.9	1.1	29	1.4	16.2	35.3	18.4
AR12-128102	65.5	5	3.9	1.2	31	1.4	16.1	35.1	18.5
AR12-228007	68.0	1	6.6	1.1	32	1.3	16.5	35.0	18.2
AR12-228022	65.3	6	4.6	1.2	31	1.4	19.0	36.2	18.3
AR12-228068	66.9	2	8.6	1.9	38	1.4	15.7	34.0	18.2
M07-266078	58.1	20	-0.2	2.2	34	1.4	17.0	34.1	19.2
M07-276085	58.2	19	-2.1	1.4	34	1.5	15.7	35.4	19.1
M07-278122	62.8	12	-2.1	1.4	33	1.5	15.1	33.7	18.4
M07-352133	59.1	17	1.4	1.7	34	1.8	18.7	34.5	19.7
M07-354108	47.5	29	-6.4	1.2	28	2.2	16.9	34.8	19.0
M07-392055	54.0	23	1.1	1.5	26	1.5	16.8	34.8	18.8
M07-396118	56.5	22	-2.1	1.2	29	1.7	14.5	35.7	17.9
M07-404023	49.7	26	-4.5	1.3	29	2.0	17.1	37.4	17.6
M08-144031	50.1	25	-4.3	1.4	29	2.0	21.5	36.1	18.5
M08-144103	48.0	28	-4.4	1.3	27	1.9	19.2	36.9	18.7
M08-144119	48.2	27	-6.9	1.2	26	2.0	18.6	35.7	18.4
M08-154007	60.2	16	-3.6	1.1	29	1.9	19.0	35.3	19.2

125.6 Days After Planting

PRELIMINARY TEST IA, 2013

YIELD (bu/a)

Strain	Mean 10 Tests	Kanawha IA	Lafayette IN	Ingham County MI	Lamberton MN	Waseca MN
MN1410 (I)	62.3	44.5	62.7	47.8	52.3	65.1
IA1022 (SCN)	65.9	51.8	64.6	54.6	50.0	67.8
Sheyenne (0)	52.3	37.3	51.3	31.3	46.7	54.2
AR12-128008	62.9	56.4	57.5	48.8	52.7	63.8
AR12-128013	63.8	51.0	67.1	54.4	48.0	61.3
AR12-128023	60.8	53.9	59.8	49.1	49.0	58.1
AR12-128024	64.7	60.3	65.1	53.8	52.9	58.8
AR12-128045	61.2	52.5	63.3	52.3	51.4	54.1
AR12-128047	59.0	50.4	50.3	50.4	47.2	57.0
AR12-128061	64.9	49.8	56.6	56.6	54.2	62.3
AR12-128065	66.4	49.8	74.7	53.5	53.8	64.9
AR12-128076	56.9	47.7	56.9	39.5	43.9	60.2
AR12-128091	63.0	52.3	55.8	54.1	54.3	54.2
AR12-128102	65.5	52.5	65.1	53.1	51.3	58.0
AR12-228007	68.0	59.0	63.1	47.1	49.4	67.8
AR12-228022	65.3	54.4	74.8	49.5	55.9	66.3
AR12-228068	66.9	58.5	64.8	48.6	53.9	66.6
M07-266078	58.1	49.2	62.0	41.4	52.7	56.5
M07-276085	58.2	52.1	57.7	49.6	46.4	54.6
M07-278122	62.8	50.3	60.7	43.3	56.8	54.4
M07-352133	59.1	43.6	62.5	41.2	49.0	51.4
M07-354108	47.5	32.7	45.6	33.4	43.1	45.9
M07-392055	54.0	38.4	45.3	41.9	47.4	51.7
M07-396118	56.5	47.6	61.8	33.8	49.6	62.3
M07-404023	49.7	36.8	48.2	35.5	49.4	50.8
M08-144031	50.1	35.6	50.6	27.1	45.2	48.1
M08-144103	48.0	37.3	50.5	30.3	52.2	48.9
M08-144119	48.2	32.2	49.4	31.0	46.4	49.8
M08-154007	60.2	43.9	58.5	45.3	51.0	56.0
Location Mean		47.6	58.8	44.8	50.2	57.6
C.V. (%)		8.2	12.3	11.6	9.9	7.3
L.S.D. (5%)		8.0	14.9	12.8	10.2	8.5
Row Sp. (In.)		30	30	15	30	30
Rows/Plot		4	4	6	4	4
Reps		2	2	2	2	2

*Data not included in mean.

PRELIMINARY TEST IA, 2013

YIELD (bu/a)

Strain	Cotesfield NE	Mead NE	Phillips NE	St. Hyacinthe Que.	Volga* SD	Watertown SD
MN1410 (I)	67.6	83.6	78.0	63.2	36.9	58.6
IA1022 (SCN)	71.0	85.8	86.5	63.4	35.9	64.0
Sheyenne (0)	65.6	55.9	66.4	57.6	39.4	56.7
AR12-128008	69.0	83.4	81.1	61.3	44.4	54.5
AR12-128013	64.2	86.6	68.5	69.1	34.2	67.8
AR12-128023	67.9	81.3	77.0	56.8	35.0	55.6
AR12-128024	67.7	84.8	81.6	62.3	35.0	59.7
AR12-128045	64.4	78.7	72.6	66.9	35.7	55.3
AR12-128047	65.4	80.3	75.2	60.3	39.2	53.5
AR12-128061	78.7	77.6	76.9	66.1	26.6	70.2
AR12-128065	74.7	87.3	72.3	69.1	33.9	63.4
AR12-128076	59.0	75.3	73.3	59.3	27.1	53.6
AR12-128091	74.1	81.7	78.1	65.8	39.1	59.9
AR12-128102	74.3	91.3	83.1	69.2	32.9	57.1
AR12-228007	86.1	83.3	85.0	67.6	28.6	71.6
AR12-228022	59.9	83.6	78.5	65.5	42.5	64.6
AR12-228068	80.9	81.7	77.3	70.1	38.0	66.4
M07-266078	69.1	68.8	66.5	59.4	29.2	55.6
M07-276085	60.4	71.6	68.0	62.1	34.7	59.1
M07-278122	68.2	84.9	89.6	60.6	40.9	58.9
M07-352133	66.8	78.5	76.8	59.2	34.5	61.8
M07-354108	53.1	54.0	57.2	51.8	35.2	58.5
M07-392055	63.6	62.2	70.3	60.8	28.5	58.2
M07-396118	67.7	71.7	68.9	48.4	26.2	53.4
M07-404023	41.1	62.9	63.9	57.5	26.4	51.0
M08-144031	55.5	62.0	63.4	56.4	42.1	57.0
M08-144103	50.6	48.0	62.1	56.9	39.4	43.3
M08-144119	51.1	59.5	63.5	52.5	36.2	46.5
M08-154007	72.8	73.8	81.7	58.2	46.3	60.5
Location Mean	65.9	75.2	73.9	61.3	35.3	58.5
C.V. (%)	9.2	7.4	7.8	8.8	15.1	11.6
L.S.D. (5%)	12.4	11.4	12.0	6.3	10.9	13.9
Row Sp. (In.)	30	30	30	14	30	30
Rows/Plot	4	4	4	4	2	2
Reps	2	2	2	3	2	2

PRELIMINARY TEST IA, 2013

YIELD RANK

Strain	Yield Rank	Kanawha IA	Lafayette IN	Ingham County MI	Lamberton MN	Waseca MN
MN1410 (I)	13	20	10	15	10	5
IA1022 (SCN)	4	11	7	2	15	1
Sheyenne (0)	24	25	22	26	24	20
AR12-128008	11	4	18	13	8	7
AR12-128013	9	12	3	3	21	10
AR12-128023	15	6	15	12	19	13
AR12-128024	8	1	4	5	7	12
AR12-128045	14	8	8	8	12	22
AR12-128047	18	13	25	9	23	15
AR12-128061	7	16	20	1	4	8
AR12-128065	3	15	2	6	6	6
AR12-128076	21	18	19	22	28	11
AR12-128091	10	9	21	4	3	20
AR12-128102	5	7	4	7	13	14
AR12-228007	1	2	9	16	17	1
AR12-228022	6	5	1	11	2	4
AR12-228068	2	3	6	14	5	3
M07-266078	20	17	12	20	8	16
M07-276085	19	10	17	10	25	18
M07-278122	12	14	14	18	1	19
M07-352133	17	22	11	21	19	24
M07-354108	29	28	28	25	29	29
M07-392055	23	23	29	19	22	23
M07-396118	22	19	13	24	16	8
M07-404023	26	26	27	23	17	25
M08-144031	25	27	23	29	27	28
M08-144103	28	24	24	28	11	27
M08-144119	27	29	26	27	25	26
M08-154007	16	21	16	17	14	17

PRELIMINARY TEST IA, 2013

YIELD RANK

Strain	Cotesfield NE	Mead NE	Phillips NE	St. Hyacinthe Que.	Volga SD	Watertown SD
MN1410 (I)	15	8	10	11	11	14
IA1022 (SCN)	8	4	2	10	13	6
Sheyenne (0)	17	27	24	22	6	19
AR12-128008	10	9	7	14	2	23
AR12-128013	20	3	21	3	20	3
AR12-128023	12	13	12	25	17	20
AR12-128024	13	6	6	12	16	11
AR12-128045	19	15	17	6	14	22
AR12-128047	18	14	15	17	8	25
AR12-128061	3	17	13	7	27	2
AR12-128065	4	2	18	4	21	7
AR12-128076	24	18	16	19	26	24
AR12-128091	6	11	9	8	9	10
AR12-128102	5	1	4	2	22	17
AR12-228007	1	10	3	5	24	1
AR12-228022	23	7	8	9	3	5
AR12-228068	2	12	11	1	10	4
M07-266078	9	22	23	18	23	21
M07-276085	22	21	22	13	18	12
M07-278122	11	5	1	16	5	13
M07-352133	16	16	14	20	19	8
M07-354108	26	28	29	28	15	15
M07-392055	21	24	19	15	25	16
M07-396118	14	20	20	29	29	26
M07-404023	29	23	25	23	28	27
M08-144031	25	25	27	26	4	18
M08-144103	28	29	28	24	7	29
M08-144119	27	26	26	27	12	28
M08-154007	7	19	5	21	1	9

PRELIMINARY TEST IA, 2013

MATURITY (date)

Strain	Mean 9 Tests	Kanawha IA	Lafayette IN	Ingham County MI	Lamberton MN	Waseca MN
MN1410 (I)	9/19	9/26	9/4		9/25	9/28
IA1022 (SCN)	2.7	-5	5		2	1
Sheyenne (0)	-5.0	-6	-3		-5	-7
AR12-128008	-0.8	-4	4		-4	-2
AR12-128013	5.6	1	9		1	9
AR12-128023	4.6	0	9		2	3
AR12-128024	4.4	4	8		2	6
AR12-128045	2.3	-3	8		1	0
AR12-128047	0.6	-3	4		1	-1
AR12-128061	3.9	4	10		1	2
AR12-128065	4.7	2	8		4	4
AR12-128076	4.4	1	7		1	3
AR12-128091	1.9	-2	6		2	0
AR12-128102	3.9	-3	8		3	2
AR12-228007	6.6	-1	14		4	6
AR12-228022	4.6	-1	12		3	2
AR12-228068	8.6	7	13		3	9
M07-266078	-0.2	-2	6		1	-1
M07-276085	-2.1	1	1		-3	-3
M07-278122	-2.1	2	-1		-1	-2
M07-352133	1.4	1	3		-1	0
M07-354108	-6.4	-8	-1		-6	-9
M07-392055	1.1	-6	7		-1	1
M07-396118	-2.1	-4	1		-3	-5
M07-404023	-4.5	-3	0		-6	-8
M08-144031	-4.3	-6	-2		-7	-9
M08-144103	-4.4	-6	1		-6	-9
M08-144119	-6.9	-8	-3		-11	-9
M08-154007	-3.6	-6	4		-5	-7
Date Planted	5/17	5/13	5/22	6/4	5/17	5/15
Days to Mature	126	136	105		131	136

PRELIMINARY TEST IA, 2013

MATURITY (date)

Strain	Cotesfield NE	Mead NE	Phillips NE	St. Hyacinthe Que.	Volga SD	Watertown SD
MN1410 (I)		9/6	9/18	9/24	9/18	9/27
IA1022 (SCN)		6	3	6	0	6
Sheyenne (0)		-8	-3	-2	-8	-4
AR12-128008		-1	-2	0	0	0
AR12-128013		4	3	7	9	8
AR12-128023		5	3	6	8	5
AR12-128024		5	2	6	2	5
AR12-128045		3	0	7	2	3
AR12-128047		-1	1	6	-5	3
AR12-128061		5	2	7	1	4
AR12-128065		4	4	10	2	4
AR12-128076		3	3	11	7	4
AR12-128091		5	2	3	0	1
AR12-128102		3	3	8	7	5
AR12-228007		8	8	9	2	9
AR12-228022		5	3	5	8	4
AR12-228068		8	7	10	12	9
M07-266078		-1	1	-1	-1	-4
M07-276085		-6	-4	0	-5	0
M07-278122		-6	-3	-3	-2	-3
M07-352133		-1	-1	7	0	5
M07-354108		-9	-8	-7	-7	-4
M07-392055		1	2	5	1	1
M07-396118		-4	-2	0	-2	0
M07-404023		-6	-8	-5	-6	0
M08-144031		-8	-7	-1	3	-2
M08-144103		-5	-6	-1	-5	-3
M08-144119		-9	-9	-5	-5	-4
M08-154007		-4	-2	-4	-5	-4
Date Planted	5/22	5/15	5/17	5/2	5/9	5/20
Days to Mature		114	124	145	132	130

PRELIMINARY TEST IA, 2013

LODGING (score)

Strain	Mean 9 Tests	Kanawha IA	Lafayette IN	Ingham County MI	Lamberton MN	Waseca MN
MN1410 (I)	1.5	1.0	1.0	1.5	1.0	2.5
IA1022 (SCN)	1.9	1.3	1.0	1.5	1.0	2.5
Sheyenne (0)	1.2	1.0	1.0	1.0	1.0	2.0
AR12-128008	1.5	1.5	1.0	1.0	1.0	2.0
AR12-128013	1.7	1.5	1.0	1.0	1.0	2.0
AR12-128023	2.4	1.8	1.5	1.5	1.0	3.0
AR12-128024	2.6	1.8	1.5	2.5	2.0	2.5
AR12-128045	1.3	1.5	1.0	1.0	1.0	2.0
AR12-128047	1.2	1.0	1.0	1.0	1.0	2.0
AR12-128061	1.5	1.5	1.0	1.0	1.0	2.0
AR12-128065	1.4	1.5	1.0	1.5	1.0	2.0
AR12-128076	1.6	1.0	1.0	1.0	1.0	2.0
AR12-128091	1.1	1.0	1.0	1.0	1.0	2.0
AR12-128102	1.2	1.3	1.0	1.0	1.0	2.0
AR12-228007	1.1	1.0	1.0	1.0	1.0	2.0
AR12-228022	1.2	1.5	1.0	1.5	1.0	2.0
AR12-228068	1.9	1.5	1.0	1.0	1.0	2.5
M07-266078	2.2	1.5	2.0	1.0	1.0	2.0
M07-276085	1.4	1.0	1.3	1.5	1.0	2.0
M07-278122	1.4	1.0	1.0	1.0	1.0	2.0
M07-352133	1.7	1.3	1.3	1.5	1.0	2.0
M07-354108	1.2	1.5	1.0	1.0	1.0	2.0
M07-392055	1.5	1.0	1.0	2.0	1.0	2.0
M07-396118	1.2	1.0	1.0	1.0	1.0	2.0
M07-404023	1.3	1.0	1.0	1.0	1.0	2.0
M08-144031	1.4	1.0	1.0	1.0	1.0	2.0
M08-144103	1.3	1.0	1.0	1.0	1.0	2.0
M08-144119	1.2	1.0	1.0	1.5	1.0	2.0
M08-154007	1.1	1.0	1.0	1.0	1.0	2.0

PRELIMINARY TEST IA, 2013

LODGING (score)

Strain	Cotesfield NE	Mead NE	Phillips NE	St. Hyacinthe Que.	Volga SD	Watertown SD
MN1410 (I)		1.5	2.0		1.0	2.0
IA1022 (SCN)		2.0	2.5		2.0	3.0
Sheyenne (0)		1.0	1.0		1.5	1.0
AR12-128008		1.0	3.0		1.5	1.5
AR12-128013		1.5	2.0		2.0	3.0
AR12-128023		2.5	2.5		4.0	4.0
AR12-128024		2.5	3.5		3.0	4.0
AR12-128045		1.0	1.5		1.5	1.0
AR12-128047		1.0	1.0		2.0	1.0
AR12-128061		1.0	1.0		1.0	4.0
AR12-128065		1.0	1.0		1.5	2.0
AR12-128076		1.5	1.5		2.0	3.0
AR12-128091		1.0	1.0		1.0	1.0
AR12-128102		1.5	1.0		1.0	1.0
AR12-228007		1.0	1.0		1.0	1.0
AR12-228022		1.0	1.0		1.0	1.0
AR12-228068		1.5	2.5		2.0	4.0
M07-266078		1.5	2.0		5.0	4.0
M07-276085		1.0	1.5		1.5	1.5
M07-278122		1.0	1.5		2.0	2.0
M07-352133		1.0	2.0		2.0	3.0
M07-354108		1.0	1.0		1.0	1.5
M07-392055		1.5	2.0		1.0	2.0
M07-396118		1.0	1.0		1.0	2.0
M07-404023		1.0	1.0		2.0	1.5
M08-144031		1.0	1.5		3.0	1.0
M08-144103		1.0	1.0		2.0	1.5
M08-144119		1.0	1.0		1.0	1.5
M08-154007		1.0	1.0		1.0	1.0

PRELIMINARY TEST IA, 2013

PLANT HEIGHT (inches)

Strain	Mean 9 Tests	Kanawha IA	Lafayette IN	Ingham County MI	Lamberton MN	Waseca MN
MN1410 (I)	34	26	37	29	34	35
IA1022 (SCN)	33	21	33	27	32	36
Sheyenne (0)	31	21	31	24	31	34
AR12-128008	29	23	30	21	33	31
AR12-128013	35	27	37	33	33	35
AR12-128023	33	26	35	29	33	34
AR12-128024	34	30	36	30	33	34
AR12-128045	29	24	29	23	30	27
AR12-128047	28	23	27	26	27	31
AR12-128061	33	30	34	28	34	35
AR12-128065	35	28	39	26	35	36
AR12-128076	33	27	35	24	33	36
AR12-128091	29	25	31	25	29	27
AR12-128102	31	24	33	26	30	33
AR12-228007	32	26	35	25	30	34
AR12-228022	31	25	34	27	31	34
AR12-228068	38	33	40	28	38	39
M07-266078	34	25	39	27	35	35
M07-276085	34	27	36	28	33	36
M07-278122	33	28	33	25	33	34
M07-352133	34	27	37	27	36	38
M07-354108	28	18	27	23	30	30
M07-392055	26	20	24	25	26	26
M07-396118	29	22	29	21	31	31
M07-404023	29	24	29	25	32	31
M08-144031	29	21	30	22	31	29
M08-144103	27	20	29	24	29	30
M08-144119	26	19	26	21	28	28
M08-154007	29	21	31	22	31	31

PRELIMINARY TEST IA, 2013

PLANT HEIGHT (inches)

Strain	Cotesfield NE	Mead NE	Phillips NE	St. Hyacinthe Que.	Volga SD	Watertown SD
MN1410 (I)		35		25	41	44
IA1022 (SCN)		37		22	42	43
Sheyenne (0)		31		23	43	38
AR12-128008		32		22	35	33
AR12-128013		39		28	44	43
AR12-128023		39		26	33	38
AR12-128024		38		26	43	37
AR12-128045		34		24	34	37
AR12-128047		30		22	35	33
AR12-128061		36		27	37	40
AR12-128065		39		28	43	40
AR12-128076		35		27	40	40
AR12-128091		34		22	33	35
AR12-128102		35		26	40	36
AR12-228007		35		26	37	39
AR12-228022		35		25	32	34
AR12-228068		45		28	43	47
M07-266078		34		25	45	45
M07-276085		37		24	42	44
M07-278122		36		24	42	43
M07-352133		34		26	43	43
M07-354108		26		22	35	38
M07-392055		28		20	33	33
M07-396118		33		20	39	37
M07-404023		29		22	34	34
M08-144031		24		23	44	40
M08-144103		28		23	32	29
M08-144119		25		21	33	31
M08-154007		35		22	36	33

PRELIMINARY TEST IA, 2013

SEED QUALITY (score)

Strain	Mean 7 Tests	Kanawha IA	Lafayette IN	Ingham County MI	Lamberton MN	Waseca MN
MN1410 (I)	1.7	2.0	1.0		3.0	1.0
IA1022 (SCN)	1.8	2.0	1.0		3.0	2.0
Sheyenne (0)	1.8	3.0	1.0		2.0	1.0
AR12-128008	1.2	1.0	1.0		1.0	1.0
AR12-128013	1.6	2.0	1.0		2.0	1.0
AR12-128023	1.4	2.0	1.0		1.0	1.0
AR12-128024	1.3	1.0	1.0		1.0	2.0
AR12-128045	1.9	1.0	1.5		2.0	2.0
AR12-128047	1.7	3.0	1.0		2.0	1.0
AR12-128061	2.6	2.0	1.0		3.0	1.0
AR12-128065	1.6	2.0	1.5		2.0	1.0
AR12-128076	1.8	2.0	1.5		3.0	1.0
AR12-128091	1.4	2.0	1.0		1.0	1.0
AR12-128102	1.4	2.0	1.5		1.0	1.0
AR12-228007	1.3	2.0	1.0		1.0	1.0
AR12-228022	1.4	2.0	1.5		1.0	1.0
AR12-228068	1.4	2.0	1.0		1.0	1.0
M07-266078	1.4	1.0	1.0		2.0	1.0
M07-276085	1.5	2.0	1.0		2.0	1.0
M07-278122	1.5	2.0	1.0		2.0	1.0
M07-352133	1.8	2.0	1.0		2.0	1.0
M07-354108	2.2	2.0	1.0		3.0	2.0
M07-392055	1.5	2.0	1.0		2.0	1.0
M07-396118	1.7	2.0	1.5		2.0	2.0
M07-404023	2.0	2.0	1.0		3.0	1.0
M08-144031	2.0	2.0	1.0		3.0	2.0
M08-144103	1.9	2.0	1.0		4.0	1.0
M08-144119	2.0	3.0	1.0		3.0	1.0
M08-154007	1.9	3.0	1.5		2.0	1.0

PRELIMINARY TEST IA, 2013

SEED QUALITY (score)

Strain	Cotesfield NE	Mead NE	Phillips NE	St. Hyacinthe Que.	Volga SD	Watertown SD
MN1410 (I)				3.0	1.0	1.0
IA1022 (SCN)				2.7	1.0	1.0
Sheyenne (0)				3.7	1.0	1.0
AR12-128008				2.7	1.0	1.0
AR12-128013				3.3	1.0	1.0
AR12-128023				3.0	1.0	1.0
AR12-128024				2.3	1.0	1.0
AR12-128045				3.0	1.0	3.0
AR12-128047				3.0	1.0	1.0
AR12-128061				4.0	3.0	4.0
AR12-128065				3.0	1.0	1.0
AR12-128076				3.0	1.0	1.0
AR12-128091				2.7	1.0	1.0
AR12-128102				2.3	1.0	1.0
AR12-228007				2.0	1.0	1.0
AR12-228022				2.3	1.0	1.0
AR12-228068				3.0	1.0	1.0
M07-266078				3.0	1.0	1.0
M07-276085				2.3	1.0	1.0
M07-278122				2.3	1.0	1.0
M07-352133				3.7	1.0	2.0
M07-354108				4.7	1.0	2.0
M07-392055				2.7	1.0	1.0
M07-396118				2.3	1.0	1.0
M07-404023				4.0	2.0	1.0
M08-144031				3.3	2.0	1.0
M08-144103				3.3	1.0	1.0
M08-144119				4.0	1.0	1.0
M08-154007				4.0	1.0	1.0

PRELIMINARY TEST IA, 2013

SEED SIZE (g/100)

Strain	Mean 9 Tests	Kanawha IA	Lafayette IN	Ingham County MI	Lamberton MN	Waseca MN
MN1410 (I)	17.5	18.3	15.8	17.5	18.3	18.7
IA1022 (SCN)	16.6	17.1	14.6	19.7	18.1	17.6
Sheyenne (0)	16.3	18.4	15.4	15.8	17.8	16.6
AR12-128008	16.4	17.2	14.9	18.4	18.3	17.2
AR12-128013	16.2	15.4	15.7	18.0	16.4	16.4
AR12-128023	16.6	17.7	15.6	18.3	16.3	17.7
AR12-128024	15.7	15.7	15.3	18.8	15.5	16.9
AR12-128045	15.7	15.7	14.5	18.7	15.3	17.2
AR12-128047	16.5	16.8	15.0	18.7	17.3	16.1
AR12-128061	17.9	17.6	16.9	21.0	18.6	17.5
AR12-128065	19.5	18.3	17.6	22.2	19.8	21.1
AR12-128076	18.9	18.5	17.8	19.4	18.3	19.8
AR12-128091	16.2	16.4	15.1	19.1	16.4	16.7
AR12-128102	16.1	15.7	14.7	18.7	16.2	16.6
AR12-228007	16.5	15.6	14.2	20.5	17.7	16.3
AR12-228022	19.0	18.1	17.3	22.0	18.7	21.5
AR12-228068	15.7	15.5	14.4	17.9	16.4	16.1
M07-266078	17.0	16.8	15.4	19.6	18.1	17.5
M07-276085	15.7	16.5	14.6	16.4	17.2	16.6
M07-278122	15.1	16.1	12.9	14.0	15.6	20.8
M07-352133	18.7	19.5	17.0	19.1	20.2	20.0
M07-354108	16.9	18.1	15.6	16.8	16.9	18.1
M07-392055	16.8	17.4	14.9	19.5	17.5	17.4
M07-396118	14.5	15.0	13.6	15.1	14.8	14.9
M07-404023	17.1	16.7	16.2	18.1	19.0	17.4
M08-144031	21.5	22.1	20.8	20.3	24.6	21.2
M08-144103	19.2	19.7	18.5	19.8	21.1	20.2
M08-144119	18.6	19.6	17.6	19.0	19.9	19.7
M08-154007	19.0	20.6	17.7	19.9	19.5	19.1

PRELIMINARY TEST IA, 2013

SEED SIZE (g/100)

Strain	Cotesfield NE	Mead NE	Phillips NE	St. Hyacinthe Que.	Volga SD	Watertown SD
MN1410 (I)		19.4		17.9	14.7	17.2
IA1022 (SCN)		17.5		16.2	11.8	17.0
Sheyenne (0)		18.1		15.9	12.8	16.0
AR12-128008		17.5		15.9	13.0	15.0
AR12-128013		18.1		15.4	13.3	17.1
AR12-128023		17.3		14.1	15.7	16.5
AR12-128024		15.6		13.9	12.9	16.4
AR12-128045		16.6		14.2	13.1	16.4
AR12-128047		16.7		16.4	13.8	17.8
AR12-128061		18.6		17.9	14.9	18.4
AR12-128065		20.8		19.5	15.7	20.7
AR12-128076		21.9		18.3	17.5	19.0
AR12-128091		16.4		16.1	12.4	17.2
AR12-128102		17.7		15.9	13.3	16.0
AR12-228007		17.1		15.9	13.8	17.9
AR12-228022		18.7		17.5	18.3	18.8
AR12-228068		15.4		15.1	14.0	16.4
M07-266078		17.2		16.9	13.1	18.6
M07-276085		16.1		15.2	12.7	16.4
M07-278122		16.0		14.1	12.3	14.5
M07-352133		18.1		18.3	15.8	20.3
M07-354108		16.6		17.7	13.9	18.4
M07-392055		16.1		16.2	13.4	18.8
M07-396118		15.6		13.9	12.1	15.5
M07-404023				17.4	11.7	20.3
M08-144031		20.5		22.2	16.3	25.1
M08-144103		20.1		19.0	14.0	20.5
M08-144119		18.9		18.2	14.7	19.9
M08-154007		20.9		18.9	15.6	18.5

PRELIMINARY TEST IA, 2013

PROTEIN (%)

Strain	Mean 4 Tests	Lamberton MN	Waseca MN	St. Hyacinthe Que.	Volga SD
MN1410 (I)	35.6	35.2	34.8	34.7	37.6
IA1022 (SCN)	33.8	34.2	32.6	30.9	37.6
Sheyenne (0)	34.0	35.3	33.9	31.8	34.8
AR12-128008	34.8	35.9	33.7	31.4	38.2
AR12-128013	35.2	36.4	34.6	32.9	36.8
AR12-128023	34.9	35.3	34.5	32.5	37.3
AR12-128024	35.0	35.7	33.5	32.3	38.4
AR12-128045	34.9	35.4	34.3	32.0	37.7
AR12-128047	36.5	37.7	36.2	33.9	38.3
AR12-128061	35.8	36.0	34.8	34.1	38.5
AR12-128065	36.0	36.0	34.8	34.5	38.7
AR12-128076	37.8	37.9	37.4	36.4	39.4
AR12-128091	35.3	36.3	34.3	33.2	37.3
AR12-128102	35.1	35.6	34.4	33.6	37.0
AR12-228007	35.0	35.0	32.8	33.1	39.3
AR12-228022	36.2	36.4	35.3	35.0	38.0
AR12-228068	34.0	35.0	33.0	31.7	36.2
M07-266078	34.1	34.3	33.4	31.9	36.7
M07-276085	35.4	36.1	34.1	33.8	37.8
M07-278122	33.7	33.6	32.7	31.7	37.0
M07-352133	34.5	36.1	32.8	32.8	36.3
M07-354108	34.8	35.6	34.5	32.7	36.5
M07-392055	34.8	35.5	34.3	31.6	37.9
M07-396118	35.7	36.4	35.0	33.4	37.9
M07-404023	37.4	39.0	35.8	35.1	39.5
M08-144031	36.1	36.9	35.1	34.5	37.9
M08-144103	36.9	38.3	34.7	34.8	39.8
M08-144119	35.7	35.4	34.2	34.1	39.1
M08-154007	35.3	36.2	35.0	33.1	37.0

* Protein and Oil values converted to 13% moisture basis.

PRELIMINARY TEST IA, 2013

OIL (%)

Strain	Mean 4 Tests	Lamberton MN	Waseca MN	St. Hyacinthe Que.	Volga SD
MN1410 (I)	18.8	20.0	18.8	17.7	18.5
IA1022 (SCN)	19.1	20.7	19.4	18.5	17.8
Sheyenne (0)	18.6	19.4	18.5	18.0	18.7
AR12-128008	19.0	20.2	19.2	18.2	18.5
AR12-128013	17.8	18.6	17.2	16.7	18.6
AR12-128023	18.5	19.8	18.0	17.5	18.8
AR12-128024	18.5	19.6	18.5	17.8	18.1
AR12-128045	18.5	19.5	18.5	17.8	18.3
AR12-128047	17.9	18.7	17.7	17.1	18.0
AR12-128061	17.1	18.5	17.2	16.1	16.7
AR12-128065	17.4	18.1	17.5	16.3	17.7
AR12-128076	16.8	17.7	16.1	15.7	17.5
AR12-128091	18.4	19.4	18.6	17.1	18.4
AR12-128102	18.5	19.9	18.6	17.2	18.3
AR12-228007	18.2	19.6	18.2	17.1	17.9
AR12-228022	18.3	19.3	17.9	17.2	18.9
AR12-228068	18.2	18.8	17.9	17.7	18.6
M07-266078	19.2	20.3	19.5	18.4	18.4
M07-276085	19.1	20.7	19.4	18.1	18.4
M07-278122	18.4	19.7	18.8	17.4	17.8
M07-352133	19.7	21.1	19.9	18.0	19.6
M07-354108	19.0	19.9	18.9	18.6	18.5
M07-392055	18.8	20.2	18.4	18.5	18.2
M07-396118	17.9	19.1	17.8	17.6	17.0
M07-404023	17.6	18.5	18.5	17.1	16.3
M08-144031	18.5	19.7	18.8	17.7	17.8
M08-144103	18.7	20.1	20.0	17.7	16.9
M08-144119	18.4	20.4	19.1	17.2	17.1
M08-154007	19.2	19.9	19.0	18.5	19.5

Preliminary Test IB, 2013

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.	OAC 11-37C	CF0703 x OAC Prodigy	Rajcan	F5	
5.	OAC 11-46C	OAC Huron x S03-W4	Rajcan	F5	
6.	OAC 11-51C	RCAT 0412SCN x OAC Champion	Rajcan	F5	
7.	SD09CV-1515	Surge x M98-308007	Jiang	F5	
8.	SD09CV-2038	IA1008 x Surge	Jiang	F5	
9.	SD09CV-2096	M98-308007 x Surge	Jiang	F5	Protein
10.	SD10CV-1156	SD03-1501 x LD05-16094	Jiang	F5	
11.	SD10CV-1181	SDX98-76192 X SD02-833	Jiang	F5	
12.	SD10CV-1218	SDX02FA-3A-10 IMBL x LD05-16094	Jiang	F5	
13.	SD10CV-1225	SDX02FA-3A-10 IMBL x LD05-16094	Jiang	F5	
14.	SD10CV-1235	SD00-632 x SD00-1501	Jiang	F5	
15.	SDFA07-771	SD02-4-59 x A02-381100	Jiang	F5	
16.	U11-610107	LD02-4485 x U03-100612	Graef	F6	SCN
17.	U11-903002	MN1410 x LD02- 7222P	Graef	F6	SCN, Rps1k, BSR
18.	U11-907098	U03-100612 x LD02- 7222P	Graef	F6	SCN
19.	U11-911074	LD02-4485 x U03-300134	Graef	F6	Rps1k, SCN
20.	U11-911079	LD02-4485 x U03-300134	Graef	F6	Rps1k, SCN
21.	U11-913028	OAC 05-17 x LD04-11056	Graef	F6	SCN
22.	U11-913102	HS5-3417 x LD02- 4485	Graef	F6	SCN, Rps1k?
23.	U11-915054	SD02-833 x LD04-11056	Graef	F6	SCN, Rps1k
24.	U11-917032	LD02-4485 x U03-100612	Graef	F6	IDC, SCN
25.	U11-918019	LD02-4485 x U03-100612	Graef	F6	SCN
26.	U11-918052	U03-100612 x LD04-11056	Graef	F6	SCN
27.	U11-932025	U06-300952 x U03-100612	Graef	F6	IDC
28.	U11-932077	U06-300952 x U03-100612	Graef	F6	IDC
29.	U11-932079	U06-300952 x U03-100612	Graef	F6	IDC
30.	U11-905076	LD01-5907 x U03-100612	Graef	F6	SCN

PRELIMINARY TEST IB, 2013

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	Chlorosis Score Danvers MN	Shattering Score Manhattan KS
MN1410 (I)	WGBDYBfI	3.5	2.0
IA1022 (SCN)	PGTSYYI	2.9	2.0
Sheyenne (0)	PGBDYYI	3.0	2.0
OAC 11-37C	WTBDYYI	3.6	3.0
OAC 11-46C	PGBDYYI	3.9	1.0
OAC 11-51C	PGTSYYI	3.5	3.0
SD09CV-1515	PGBDYIbI	3.1	1.0
SD09CV-2038	PGBDYYI	2.9	1.0
SD09CV-2096	PGT+BDYBf+IbI	3.4	2.0
SD10CV-1156	PGTDYIbI	3.0	2.0
SD10CV-1181	WGBDYLbfI	3.5	2.0
SD10CV-1218	PGTDYIbI	3.5	1.0
SD10CV-1225	PGBDYIbI	3.1	2.0
SD10CV-1235	WT+GBDYBl+IbI	4.4	2.0
SDFA07-771	WTTDYBrI	3.8	2.0
U11-610107	PLtBDYLbrI	4.1	1.0
U11-903002	WGBDYBfI	4.1	2.0
U11-907098	PLtBDYLblI	3.6	2.0
U11-911074	PTBDYBlI	3.0	3.0
U11-911079	PLtBDYBlI	3.6	2.0
U11-913028	PTBDYBrI	3.5	5.0
U11-913102	WGBDYBfI	3.1	2.0
U11-915054	PTBDYBlI	2.8	2.0
U11-917032	PTBDYBlI	4.0	2.0
U11-918019	PGBDYBfI	3.0	2.0
U11-918052	PGBDYYI	2.8	2.0
U11-932025	WTBDYBlI	3.3	2.0
U11-932077	W+PTBDYBlI	3.5	2.0
U11-932079	PTBIYBlI	3.9	1.0
U11-905076	PTBDYLbrI	3.5	1.0

PRELIMINARY TEST IB, 2013

REGIONAL SUMMARY

Strain	Yield	Rank	Maturity	Lodging	Plant Height	Seed Quality	Seed Size	Composition	
								Protein	Oil
No. of Tests	10	10	9	9	9	8	9	4	4
	bu/a	No.	Date	Score	In.	Score	g/100	%	%
MN1410 (I)	62.6	11	9/17	1.4	32	1.7	17.2	35.4	19.0
IA1022 (SCN)	62.2	13	3.5	1.6	31	1.8	16.6	33.3	19.4
Sheyenne (0)	54.9	25	-4.8	1.2	29	2.1	16.4	34.1	18.9
OAC 11-37C	54.5	28	-4.1	1.6	31	1.5	18.9	35.2	18.5
OAC 11-46C	54.6	27	-2.6	1.3	27	1.6	18.4	36.9	18.1
OAC 11-51C	59.5	19	1.5	1.4	35	1.8	17.6	36.1	18.7
SD09CV-1515	52.3	29	-3.4	1.3	27	2.1	18.6	36.0	18.4
SD09CV-2038	60.1	18	2.8	1.4	32	1.8	18.7	36.2	17.4
SD09CV-2096	57.8	21	1.2	1.5	31	1.8	20.6	36.5	18.4
SD10CV-1156	55.2	24	-0.7	1.1	31	2.1	18.0	37.1	18.1
SD10CV-1181	54.7	26	-0.8	1.8	32	2.3	18.9	36.3	18.4
SD10CV-1218	49.4	30	-6.1	1.2	26	1.9	15.4	34.5	18.9
SD10CV-1225	57.3	22	2.7	1.4	29	1.5	15.0	35.5	19.0
SD10CV-1235	57.2	23	-0.2	1.3	32	1.8	18.0	35.1	18.4
SDFA07-771	58.4	20	2.2	2.2	33	2.1	15.0	35.9	17.3
U11-610107	68.0	1	6.4	1.4	33	1.7	16.6	33.7	18.9
U11-903002	61.9	14	4.2	1.2	31	1.7	18.2	35.4	18.3
U11-907098	65.0	4	4.6	1.3	31	1.4	16.0	33.9	18.2
U11-911074	60.6	16	2.9	1.3	30	1.8	13.4	33.9	18.8
U11-911079	66.3	2	5.1	1.2	33	1.6	13.9	34.2	17.5
U11-913028	64.1	6	2.7	1.3	32	1.7	16.0	33.0	19.1
U11-913102	60.3	17	3.3	1.1	29	1.5	14.7	35.7	17.7
U11-915054	62.9	9	3.6	1.3	35	1.9	19.9	34.9	19.0
U11-917032	62.7	10	3.6	1.6	31	1.5	16.5	33.4	19.1
U11-918019	64.2	5	5.3	1.2	30	1.5	15.7	33.7	18.3
U11-918052	63.3	8	1.9	1.2	31	1.5	14.9	34.5	18.9
U11-932025	65.7	3	2.9	1.1	29	1.6	16.9	36.2	18.2
U11-932077	62.6	11	4.0	1.2	32	1.6	16.4	36.1	17.9
U11-932079	64.0	7	2.6	1.2	29	1.4	16.1	34.9	18.1
U11-905076	61.0	15	3.7	1.2	29	1.8	16.4	34.7	18.3

123.9 Days After Planting

PRELIMINARY TEST IB, 2013

YIELD (bu/a)

Strain	Mean 10 Tests	Kanawha* IA	Lafayette IN	Ingham County MI	Lamberton MN	Waseca MN
MN1410 (I)	62.6	54.4	64.2	38.3	46.2	55.4
IA1022 (SCN)	62.2	64.1	56.8	56.4	54.9	64.2
Sheyenne (0)	54.9	41.0	45.1	43.8	52.6	57.1
OAC 11-37C	54.5	46.4	48.1	46.3	52.9	52.0
OAC 11-46C	54.6	45.8	48.6	46.8	48.5	52.4
OAC 11-51C	59.5	59.1	56.8	52.7	46.0	60.6
SD09CV-1515	52.3	44.1	47.7	39.6	47.5	54.0
SD09CV-2038	60.1	60.2	56.3	54.3	51.5	59.0
SD09CV-2096	57.8	53.3	54.0	44.2	45.3	54.0
SD10CV-1156	55.2	47.5	43.6	45.6	48.5	55.9
SD10CV-1181	54.7	61.7	57.1	41.9	50.9	52.9
SD10CV-1218	49.4	54.5	40.3	29.0	43.1	51.0
SD10CV-1225	57.3	50.3	57.3	38.6	55.3	61.8
SD10CV-1235	57.2	52.3	55.6	37.2	54.0	55.5
SDFA07-771	58.4	56.8	54.1	46.5	45.5	50.2
U11-610107	68.0	67.8	65.9	60.9	53.9	63.1
U11-903002	61.9	61.9	59.3	45.9	47.9	63.5
U11-907098	65.0	65.7	67.6	52.6	55.6	61.6
U11-911074	60.6	55.5	58.3	51.2	44.7	59.9
U11-911079	66.3	69.8	67.8	60.7	55.2	67.3
U11-913028	64.1	57.6	63.5	50.5	55.6	59.8
U11-913102	60.3	50.0	58.3	44.4	48.6	65.4
U11-915054	62.9	52.4	59.4	49.4	49.7	65.3
U11-917032	62.7	64.0	65.7	55.7	47.5	63.6
U11-918019	64.2	54.8	64.1	58.3	57.5	66.7
U11-918052	63.3	63.6	64.3	53.0	46.4	64.7
U11-932025	65.7	67.0	59.3	54.7	52.0	66.4
U11-932077	62.6	64.2	62.5	56.4	56.5	66.8
U11-932079	64.0	57.6	64.8	59.2	49.9	58.4
U11-905076	61.0	63.8	62.0	54.5	45.8	59.1
Location Mean		56.9	57.6	49.0	50.3	59.6
C.V. (%)		15.4	7.1	12.2	8.4	7.6
L.S.D. (5%)		18.0	8.4	14.7	8.6	9.2
Row Sp. (In.)		30	30	15	30	30
Rows/Plot		4	4	6	4	4
Reps		2	2	2	2	2

*Data not included in mean.

PRELIMINARY TEST IB, 2013

YIELD (bu/a)

Strain	Cotesfield NE	Mead NE	Phillips NE	St. Hyacinthe Que.	Volga SD	Watertown SD
MN1410 (I)	74.8	81.6	90.8	70.3	42.8	61.8
IA1022 (SCN)	62.8	82.5	83.8	67.0	39.9	54.0
Sheyenne (0)	65.2	70.3	70.8	65.5	37.5	41.3
OAC 11-37C	47.1	61.1	70.0	62.8	43.3	61.4
OAC 11-46C	55.4	63.5	64.9	62.3	36.3	66.8
OAC 11-51C	60.1	72.3	70.6	71.4	42.8	61.3
SD09CV-1515	66.7	59.1	66.1	60.1	35.4	47.3
SD09CV-2038	71.1	75.6	81.1	67.9	31.1	53.5
SD09CV-2096	70.1	67.5	79.5	67.9	31.9	63.2
SD10CV-1156	71.5	68.8	63.6	59.1	35.5	60.3
SD10CV-1181	62.2	74.7	65.0	69.1	30.1	43.2
SD10CV-1218	61.1	52.6	62.0	60.2	41.6	53.4
SD10CV-1225	64.3	70.5	78.7	62.6	39.3	45.1
SD10CV-1235	69.3	78.7	71.5	67.1	31.4	51.7
SDFA07-771	72.5	80.0	80.0	69.8	26.9	58.8
U11-610107	83.2	84.9	89.7	76.1	32.8	69.4
U11-903002	73.9	84.9	85.0	73.6	35.3	49.4
U11-907098	68.1	86.1	93.0	66.4	31.8	67.7
U11-911074	74.5	82.9	79.1	66.4	29.3	59.6
U11-911079	75.6	86.4	83.6	68.0	32.7	65.4
U11-913028	73.0	85.6	85.9	62.4	34.4	70.1
U11-913102	69.8	82.2	66.1	66.8	29.1	71.9
U11-915054	69.2	82.3	76.3	70.0	39.5	68.3
U11-917032	65.5	75.8	86.7	69.9	35.9	60.5
U11-918019	72.0	82.3	88.9	67.0	30.1	55.3
U11-918052	80.9	85.5	85.2	67.0	31.7	54.8
U11-932025	76.7	92.6	88.4	70.1	34.5	61.9
U11-932077	59.6	82.8	86.0	69.7	34.0	52.1
U11-932079	79.3	88.3	89.4	69.1	37.4	43.9
U11-905076	67.5	81.9	83.5	70.1	31.2	54.4
Location Mean	68.8	77.4	78.8	67.2	34.8	57.6
C.V. (%)	8.2	7.0	6.5	5.8	10.1	12.3
L.S.D. (5%)	11.5	11.1	10.5	4.6	7.2	14.5
Row Sp. (In.)	30	30	30	14	30	30
Rows/Plot	4	4	4	4	2	2
Reps	2	2	2	3	2	2

PRELIMINARY TEST IB, 2013

YIELD RANK

Strain	Yield Rank	Kanawha IA	Lafayette IN	Ingham County MI	Lamberton MN	Waseca MN
MN1410 (I)	11	20	7	28	24	23
IA1022 (SCN)	13	6	19	5	7	8
Sheyenne (0)	25	30	28	24	11	20
OAC 11-37C	28	27	26	19	10	28
OAC 11-46C	27	28	25	17	18	27
OAC 11-51C	19	13	19	12	25	14
SD09CV-1515	29	29	27	26	21	24
SD09CV-2038	18	12	21	10	13	18
SD09CV-2096	21	21	24	23	28	24
SD10CV-1156	24	26	29	21	18	21
SD10CV-1181	26	11	18	25	14	26
SD10CV-1218	30	19	30	30	30	29
SD10CV-1225	22	24	17	27	5	12
SD10CV-1235	23	23	22	29	8	22
SDFA07-771	20	16	23	18	27	30
U11-610107	1	2	3	1	9	11
U11-903002	14	10	13	20	20	10
U11-907098	4	4	2	13	3	13
U11-911074	16	17	15	14	29	15
U11-911079	2	1	1	2	6	1
U11-913028	6	14	9	15	3	16
U11-913102	17	25	15	22	17	5
U11-915054	9	22	12	16	16	6
U11-917032	10	7	4	7	21	9
U11-918019	5	18	8	4	1	3
U11-918052	8	9	6	11	23	7
U11-932025	3	3	13	8	12	4
U11-932077	11	5	10	6	2	2
U11-932079	7	14	5	3	15	19
U11-905076	15	8	11	9	26	17

PRELIMINARY TEST IB, 2013

YIELD RANK

Strain	Cotesfield NE	Mead NE	Phillips NE	St. Hyacinthe Que.	Volga SD	Watertown SD
MN1410 (I)	6	16	2	4	2	10
IA1022 (SCN)	24	11	12	17	5	20
Sheyenne (0)	22	24	22	23	8	30
OAC 11-37C	30	28	24	24	1	11
OAC 11-46C	29	27	28	27	10	6
OAC 11-51C	27	22	23	3	3	12
SD09CV-1515	20	29	26	29	13	26
SD09CV-2038	13	20	15	15	25	21
SD09CV-2096	14	26	17	14	20	8
SD10CV-1156	12	25	29	30	12	14
SD10CV-1181	25	21	27	12	27	29
SD10CV-1218	26	30	30	28	4	22
SD10CV-1225	23	23	19	25	7	27
SD10CV-1235	16	18	21	16	23	24
SDFA07-771	10	17	16	9	30	16
U11-610107	1	8	3	1	18	3
U11-903002	8	7	11	2	14	25
U11-907098	18	4	1	21	21	5
U11-911074	7	9	18	22	28	15
U11-911079	5	3	13	13	19	7
U11-913028	9	5	9	26	16	2
U11-913102	15	14	25	20	29	1
U11-915054	17	13	20	7	6	4
U11-917032	21	19	7	8	11	13
U11-918019	11	12	5	18	26	17
U11-918052	2	6	10	19	22	18
U11-932025	4	1	6	6	15	9
U11-932077	28	10	8	10	17	23
U11-932079	3	2	4	11	9	28
U11-905076	19	15	14	5	24	19

PRELIMINARY TEST IB, 2013

MATURITY (date)

Strain	Mean 9 Tests	Kanawha IA	Lafayette IN	Ingham County MI	Lamberton MN	Waseca MN
MN1410 (I)	9/17	9/23	9/6		9/24	9/23
IA1022 (SCN)	3.5	4	3		4	6
Sheyenne (0)	-4.8	-9	-5		-1	-2
OAC 11-37C	-4.1	-8	-4		-2	-3
OAC 11-46C	-2.6	-5	-2		-1	-1
OAC 11-51C	1.5	1	1		3	4
SD09CV-1515	-3.4	-7	-2		0	-3
SD09CV-2038	2.8	3	4		3	3
SD09CV-2096	1.2	-1	1		3	5
SD10CV-1156	-0.7	-3	-1		0	2
SD10CV-1181	-0.8	-2	0		2	0
SD10CV-1218	-6.1	-10	-4		-3	-3
SD10CV-1225	2.7	3	5		3	6
SD10CV-1235	-0.2	3	0		3	-1
SDFA07-771	2.2	2	2		3	6
U11-610107	6.4	6	11		5	11
U11-903002	4.2	3	5		5	9
U11-907098	4.6	4	6		4	8
U11-911074	2.9	3	5		3	6
U11-911079	5.1	5	8		5	10
U11-913028	2.7	2	6		4	6
U11-913102	3.3	3	4		3	8
U11-915054	3.6	5	6		4	6
U11-917032	3.6	2	5		4	7
U11-918019	5.3	5	10		5	9
U11-918052	1.9	2	3		3	7
U11-932025	2.9	1	6		3	6
U11-932077	4.0	4	8		4	5
U11-932079	2.6	2	5		4	2
U11-905076	3.7	2	6		4	6
Date Planted	5/17	5/13	5/22	6/4	5/17	5/15
Days to Mature	124	133	107		130	131

PRELIMINARY TEST IB, 2013

MATURITY (date)

Strain	Cotesfield NE	Mead NE	Phillips NE	St. Hyacinthe Que.	Volga SD	Watertown SD
MN1410 (I)		9/5	9/9	9/24	9/18	9/29
IA1022 (SCN)		7	3	7	-4	2
Sheyenne (0)		-6	-3	-4	-8	-6
OAC 11-37C		-6	-4	-6	-6	1
OAC 11-46C		-2	-4	-1	-7	-1
OAC 11-51C		2	2	1	-3	3
SD09CV-1515		-4	-5	-2	-7	-1
SD09CV-2038		4	3	7	-5	4
SD09CV-2096		-2	1	2	-4	5
SD10CV-1156		1	-2	-1	-4	1
SD10CV-1181		-3	-2	1	-6	2
SD10CV-1218		-8	-6	-6	-9	-7
SD10CV-1225		6	1	1	-1	2
SD10CV-1235		-3	1	1	-6	1
SDFA07-771		3	2	5	-4	2
U11-610107		8	3	10	-3	7
U11-903002		5	2	8	-3	4
U11-907098		7	4	6	-3	7
U11-911074		6	2	5	-4	1
U11-911079		8	3	10	-6	4
U11-913028		0	2	5	-4	4
U11-913102		6	2	7	-6	3
U11-915054		4	3	7	-3	1
U11-917032		5	3	6	-5	6
U11-918019		7	4	7	-5	7
U11-918052		2	2	1	-7	6
U11-932025		5	2	6	-6	4
U11-932077		6	2	7	-5	6
U11-932079		3	3	4	-5	6
U11-905076		6	3	6	-4	5
Date Planted	5/22	5/15	5/17	5/2	5/9	5/20
Days to Mature		113	115	145	132	132

PRELIMINARY TEST IB, 2013

LODGING (score)

Strain	Mean 9 Tests	Kanawha IA	Lafayette IN	Ingham County MI	Lamberton MN	Waseca MN
MN1410 (I)	1.4	1.3	1.3	1.0	1.0	3.0
IA1022 (SCN)	1.6	1.8	1.0	1.5	1.0	2.0
Sheyenne (0)	1.2	1.0	1.3	1.5	1.0	2.0
OAC 11-37C	1.6	1.5	1.5	1.5	1.0	2.0
OAC 11-46C	1.3	1.3	1.0	1.0	1.0	2.0
OAC 11-51C	1.4	1.3	1.0	2.0	1.0	2.0
SD09CV-1515	1.3	1.3	1.0	1.5	1.0	2.0
SD09CV-2038	1.4	2.0	1.0	1.5	1.0	2.0
SD09CV-2096	1.5	1.3	1.0	1.5	1.0	2.0
SD10CV-1156	1.1	1.0	1.0	1.0	1.0	2.0
SD10CV-1181	1.8	1.5	1.5	2.0	2.0	2.0
SD10CV-1218	1.2	1.3	1.0	1.5	1.0	2.0
SD10CV-1225	1.4	1.8	1.3	1.5	1.0	2.0
SD10CV-1235	1.3	1.5	1.0	1.5	1.0	2.0
SDFA07-771	2.2	2.0	1.8	2.5	1.0	3.0
U11-610107	1.4	2.0	1.0	1.0	1.0	2.5
U11-903002	1.2	1.5	1.0	1.0	1.0	2.0
U11-907098	1.3	1.8	1.0	1.0	1.0	2.5
U11-911074	1.3	2.0	1.0	1.0	1.0	3.0
U11-911079	1.2	1.5	1.0	1.0	1.0	2.0
U11-913028	1.3	1.5	1.0	1.5	1.0	2.0
U11-913102	1.1	1.3	1.0	1.0	1.0	2.0
U11-915054	1.3	1.5	1.0	1.0	1.0	2.0
U11-917032	1.6	2.0	1.0	1.5	1.0	3.0
U11-918019	1.2	1.5	1.0	1.0	1.0	2.0
U11-918052	1.2	1.8	1.0	1.0	1.0	2.0
U11-932025	1.1	1.0	1.0	1.0	1.0	2.0
U11-932077	1.2	1.3	1.0	1.0	1.0	2.5
U11-932079	1.2	1.5	1.0	1.0	1.0	2.0
U11-905076	1.2	1.5	1.0	1.0	1.0	2.0

PRELIMINARY TEST IB, 2013

LODGING (score)

Strain	Cotesfield NE	Mead NE	Phillips NE	St. Hyacinthe Que.	Volga SD	Watertown SD
MN1410 (I)		1.0	2.0		1.0	1.0
IA1022 (SCN)		2.0	3.0		1.5	1.0
Sheyenne (0)		1.0	1.0		1.0	1.0
OAC 11-37C		2.5	1.0		1.0	2.0
OAC 11-46C		1.0	1.0		1.5	1.5
OAC 11-51C		1.0	1.0		1.5	1.5
SD09CV-1515		1.0	2.0		1.0	1.0
SD09CV-2038		1.0	2.0		1.0	1.0
SD09CV-2096		1.0	3.0		1.0	2.0
SD10CV-1156		1.0	1.0		1.0	1.0
SD10CV-1181		2.5	3.0		1.0	1.0
SD10CV-1218		1.0	1.0		1.0	1.0
SD10CV-1225		1.0	2.0		1.0	1.0
SD10CV-1235		1.5	1.0		1.0	1.0
SDFA07-771		2.5	3.0		1.0	3.0
U11-610107		1.5	1.0		1.0	2.0
U11-903002		1.0	1.0		1.0	1.0
U11-907098		1.0	1.0		1.0	1.0
U11-911074		1.0	1.0		1.0	1.0
U11-911079		1.0	1.0		1.0	1.0
U11-913028		1.0	1.0		1.0	2.0
U11-913102		1.0	1.0		1.0	1.0
U11-915054		1.5	2.0		1.0	1.0
U11-917032		1.5	2.0		1.0	1.0
U11-918019		1.0	1.0		1.0	1.0
U11-918052		1.0	1.0		1.0	1.0
U11-932025		1.0	1.0		1.0	1.0
U11-932077		1.0	1.0		1.0	1.0
U11-932079		1.0	1.0		1.5	1.0
U11-905076		1.5	1.0		1.0	1.0

PRELIMINARY TEST IB, 2013

PLANT HEIGHT (inches)

Strain	Mean 9 Tests	Kanawha IA	Lafayette IN	Ingham County MI	Lamberton MN	Waseca MN
MN1410 (I)	32	27	37	25	33	33
IA1022 (SCN)	31	28	31	27	31	31
Sheyenne (0)	29	21	31	27	32	32
OAC 11-37C	31	24	34	27	32	30
OAC 11-46C	27	23	27	22	30	24
OAC 11-51C	35	32	37	32	34	32
SD09CV-1515	27	22	29	26	29	28
SD09CV-2038	32	30	32	31	34	31
SD09CV-2096	31	28	32	25	32	32
SD10CV-1156	31	21	29	29	31	30
SD10CV-1181	32	28	33	26	32	30
SD10CV-1218	26	21	26	23	27	28
SD10CV-1225	29	25	30	24	30	28
SD10CV-1235	32	26	33	25	32	33
SDFA07-771	33	26	35	26	33	30
U11-610107	33	31	35	27	33	33
U11-903002	31	23	32	25	33	32
U11-907098	31	30	35	26	33	31
U11-911074	30	27	32	25	29	31
U11-911079	33	31	36	30	31	34
U11-913028	32	25	33	29	33	32
U11-913102	29	23	30	26	29	31
U11-915054	35	30	37	30	34	34
U11-917032	31	29	29	29	31	33
U11-918019	30	28	33	30	30	29
U11-918052	31	30	31	27	30	31
U11-932025	29	27	30	26	29	30
U11-932077	32	28	34	28	33	32
U11-932079	29	25	30	28	28	29
U11-905076	29	30	31	25	27	32

PRELIMINARY TEST IB, 2013

PLANT HEIGHT (inches)

Strain	Cotesfield NE	Mead NE	Phillips NE	St. Hyacinthe Que.	Volga SD	Watertown SD
MN1410 (I)		36		28	40	34
IA1022 (SCN)		36		26	37	30
Sheyenne (0)		28		25	39	30
OAC 11-37C		33		25	40	37
OAC 11-46C		26		26	31	37
OAC 11-51C		36		29	42	43
SD09CV-1515		29		22	31	28
SD09CV-2038		35		26	37	32
SD09CV-2096		33		26	40	34
SD10CV-1156		34		25	38	40
SD10CV-1181		37		27	40	35
SD10CV-1218		25		24	33	29
SD10CV-1225		34		25	36	32
SD10CV-1235		34		29	40	34
SDFA07-771		36		30	39	40
U11-610107		38		28	37	33
U11-903002		34		26	41	33
U11-907098		35		27	37	30
U11-911074		35		26	33	30
U11-911079				26	40	35
U11-913028		35		24	36	38
U11-913102		34		24	34	35
U11-915054				29	46	42
U11-917032		36		26	35	32
U11-918019		36		26	33	30
U11-918052		37		27	35	33
U11-932025		35		26	33	30
U11-932077		38		28	31	32
U11-932079		31		26	32	28
U11-905076		33		27	32	29

PRELIMINARY TEST IB, 2013

SEED QUALITY (score)

Strain	Mean 8 Tests	Kanawha IA	Lafayette IN	Ingham County MI	Lamberton MN	Waseca MN
MN1410 (I)	1.7	2.0	1.0		2.0	2.0
IA1022 (SCN)	1.8	2.0	1.0		3.0	2.0
Sheyenne (0)	2.1	3.0	1.5		3.0	2.0
OAC 11-37C	1.5	1.0	1.0		2.0	2.0
OAC 11-46C	1.6	2.0	1.0		2.0	2.0
OAC 11-51C	1.8	2.0	1.0		3.0	2.0
SD09CV-1515	2.1	3.0	1.0		3.0	2.0
SD09CV-2038	1.8	2.0	1..5		3.0	2.0
SD09CV-2096	1.8	2.0	1.0		2.0	2.0
SD10CV-1156	2.1	2.0	1.0		3.0	3.0
SD10CV-1181	2.3	2.0	1.0		3.0	4.0
SD10CV-1218	1.9	2.0	1.5		2.0	2.0
SD10CV-1225	1.5	2.0	1.0		1.0	1.0
SD10CV-1235	1.8	2.0	1.0		2.0	2.0
SDFA07-771	2.1	3.0	1.0		2.0	3.0
U11-610107	1.7	2.0	1.0		1.0	2.0
U11-903002	1.7	2.0	1.5		1.0	2.0
U11-907098	1.4	1.0	1.0		1.0	2.0
U11-911074	1.8	2.0	1.0		3.0	2.0
U11-911079	1.6	2.0	1.0		2.0	2.0
U11-913028	1.7	2.0	1.5		1.0	2.0
U11-913102	1.5	2.0	1.0		1.0	2.0
U11-915054	1.9	2.0	1.5		2.0	3.0
U11-917032	1.5	2.0	1.0		1.0	1.0
U11-918019	1.5	2.0	1.0		1.0	2.0
U11-918052	1.5	2.0	1.0		2.0	2.0
U11-932025	1.6	2.0	1.0		1.0	2.0
U11-932077	1.6	1.0	1.0		2.0	2.0
U11-932079	1.4	1.0	1.0		1.0	2.0
U11-905076	1.8	2.0	1.0		2.0	2.0

PRELIMINARY TEST IB, 2013

SEED QUALITY (score)

Strain	Cotesfield NE	Mead NE	Phillips NE	St. Hyacinthe Que.	Volga SD	Watertown SD
MN1410 (I)		2.0		2.3	1.0	1.0
IA1022 (SCN)		2.0		2.3	1.0	1.0
Sheyenne (0)		2.0		3.0	1.0	1.0
OAC 11-37C		2.0		2.0	1.0	1.0
OAC 11-46C		2.0		2.0	1.0	1.0
OAC 11-51C		2.0		2.7	1.0	1.0
SD09CV-1515		2.0		4.0	1.0	1.0
SD09CV-2038		2.0		3.0	1.0	1.0
SD09CV-2096		2.0		3.3	1.0	1.0
SD10CV-1156		2.0		4.0	1.0	1.0
SD10CV-1181		2.0		3.3	1.0	2.0
SD10CV-1218		2.0		3.7	1.0	1.0
SD10CV-1225		2.0		3.0	1.0	1.0
SD10CV-1235		2.0		3.7	1.0	1.0
SDFA07-771		2.0		3.7	1.0	1.0
U11-610107		2.0		2.3	1.0	2.0
U11-903002		2.0		2.7	1.0	1.0
U11-907098		2.0		2.3	1.0	1.0
U11-911074		2.0		2.3	1.0	1.0
U11-911079		2.0		2.0	1.0	1.0
U11-913028		2.0		2.7	1.0	1.0
U11-913102		2.0		2.0	1.0	1.0
U11-915054		2.0		2.7	1.0	1.0
U11-917032		2.0		2.7	1.0	1.0
U11-918019		2.0		2.3	1.0	1.0
U11-918052		1.0		2.0	1.0	1.0
U11-932025		2.0		3.0	1.0	1.0
U11-932077		2.0		3.0	1.0	1.0
U11-932079		2.0		2.3	1.0	1.0
U11-905076		2.0		3.0	1.0	1.0

PRELIMINARY TEST IB, 2013

SEED SIZE (g/100)

Strain	Mean 9 Tests	Kanawha IA	Lafayette IN	Ingham County MI	Lamberton MN	Waseca MN
MN1410 (I)	17.2	16.8	16.3	15.7	18.5	18.3
IA1022 (SCN)	16.6	17.4	14.9	19.3	17.1	17.2
Sheyenne (0)	16.4	17.8	15.9	15.7	17.0	17.4
OAC 11-37C	18.9	20.6	18.0	20.8	20.9	21.0
OAC 11-46C	18.4	18.9	16.8	18.3	19.3	19.6
OAC 11-51C	17.6	17.9	15.6	18.6	18.0	18.8
SD09CV-1515	18.6	18.5	17.8	18.3	20.9	19.4
SD09CV-2038	18.7	18.5	18.3	20.6	18.8	20.0
SD09CV-2096	20.6	20.9	19.0	21.8	21.3	23.1
SD10CV-1156	18.0	19.1	17.3	18.8	18.6	20.1
SD10CV-1181	18.9	20.4	17.7	19.7	20.4	19.7
SD10CV-1218	15.4	17.9	15.3	15.1	15.8	15.6
SD10CV-1225	15.0	16.2	13.9	15.3	14.8	16.2
SD10CV-1235	18.0	18.6	17.6	17.1	18.6	18.2
SDFA07-771	15.0	15.3	13.5	17.6	14.3	14.6
U11-610107	16.6	17.7	14.9	20.0	15.9	17.5
U11-903002	18.2	17.9	16.5	21.8	17.8	18.8
U11-907098	16.0	16.2	14.1	18.9	17.0	17.3
U11-911074	13.4	13.4	13.1	16.4	13.2	12.0
U11-911079	13.9	14.4	12.9	16.7	14.0	14.4
U11-913028	16.0	15.5	13.2	19.0	16.4	16.7
U11-913102	14.7	15.3	13.9	16.2	14.6	14.8
U11-915054	19.9	19.7	18.5	20.9	20.3	21.8
U11-917032	16.5	16.5	14.8	19.3	17.9	18.3
U11-918019	15.7	16.3	14.6	18.4	15.9	15.8
U11-918052	14.9	15.4	14.2	17.7	14.5	15.9
U11-932025	16.9	17.8	14.9	20.1	17.1	16.5
U11-932077	16.4	16.1	15.2	20.7	15.8	15.9
U11-932079	16.1	16.6	14.4	19.2	15.7	16.4
U11-905076	16.4	17.8	15.9	19.7	15.8	16.7

PRELIMINARY TEST IB, 2013

SEED SIZE (g/100)

Strain	Cotesfield NE	Mead NE	Phillips NE	St. Hyacinthe Que.	Volga SD	Watertown SD
MN1410 (I)		19.7		18.0	13.3	18.3
IA1022 (SCN)		18.3		16.4	12.2	16.3
Sheyenne (0)		17.7		16.3	12.3	17.4
OAC 11-37C		19.5		19.5	16.5	13.5
OAC 11-46C		20.0		18.9	13.7	19.8
OAC 11-51C		18.1		17.7	13.8	20.1
SD09CV-1515		21.1		18.3	13.6	19.3
SD09CV-2038		20.5		18.3	14.0	19.1
SD09CV-2096		21.1		21.7	15.5	21.4
SD10CV-1156		18.3		18.2	13.6	18.0
SD10CV-1181		20.4		19.0	13.1	19.5
SD10CV-1218		16.5		15.9	11.7	15.3
SD10CV-1225		15.6		15.4	12.4	14.9
SD10CV-1235		20.4		18.2	12.9	20.6
SDFA07-771		15.7		16.3	11.6	16.4
U11-610107		17.4		17.2	11.8	17.2
U11-903002		19.1		18.7	13.5	19.9
U11-907098		16.6		15.9	11.6	16.5
U11-911074		14.6		13.7	10.4	14.0
U11-911079		14.7		13.6	9.9	14.6
U11-913028		16.5		16.4	11.8	18.6
U11-913102		16.2		15.2	10.4	15.6
U11-915054		21.4		19.3	15.2	22.0
U11-917032		16.5		16.5	11.7	16.7
U11-918019		17.1		15.4	11.6	16.1
U11-918052		15.2		15.0	10.8	15.5
U11-932025		18.0		17.7	12.3	17.8
U11-932077		17.6		17.1	12.7	16.3
U11-932079		16.4		16.4	12.8	16.9
U11-905076		17.9		16.7	11.6	15.8

PRELIMINARY TEST IB, 2013

PROTEIN (%)

Strain	Mean 4 Tests	Lamberton MN	Waseca MN	St. Hyacinthe Que.	Volga SD
MN1410 (I)	35.4	36.3	34.5	34.0	36.7
IA1022 (SCN)	33.3	33.7	32.1	30.6	36.7
Sheyenne (0)	34.1	36.4	32.5	31.3	36.0
OAC 11-37C	35.2	36.5	34.2	33.7	36.3
OAC 11-46C	36.9	38.0	35.5	34.5	39.8
OAC 11-51C	36.1	36.6	34.6	34.8	38.5
SD09CV-1515	36.0	37.4	34.3	34.5	37.6
SD09CV-2038	36.2	36.3	34.4	34.2	39.7
SD09CV-2096	36.5	38.3	34.8	35.7	37.1
SD10CV-1156	37.1	38.9	35.4	36.0	38.1
SD10CV-1181	36.3	37.3	34.8	34.0	39.2
SD10CV-1218	34.5	36.3	33.3	31.8	36.6
SD10CV-1225	35.5	36.5	33.5	32.8	39.0
SD10CV-1235	35.1	35.6	33.3	33.3	38.4
SDFA07-771	35.9	36.9	33.4	33.8	39.5
U11-610107	33.7	34.6	31.7	31.7	36.9
U11-903002	35.4	36.2	33.4	34.5	37.4
U11-907098	33.9	33.5	32.3	31.3	38.5
U11-911074	33.9	34.3	32.9	31.6	36.8
U11-911079	34.2	33.9	32.7	33.1	37.3
U11-913028	33.0	32.9	32.4	31.3	35.5
U11-913102	35.7	34.8	34.7	33.1	40.0
U11-915054	34.9	36.3	32.8	33.1	37.5
U11-917032	33.4	34.6	31.7	31.2	36.2
U11-918019	33.7	33.8	32.0	31.4	37.6
U11-918052	34.5	34.2	32.9	31.8	39.0
U11-932025	36.2	37.5	34.1	33.1	40.2
U11-932077	36.1	35.6	34.6	32.9	41.3
U11-932079	34.9	34.6	34.0	31.8	39.1
U11-905076	34.7	34.3	33.1	31.2	40.1

* Protein and Oil values converted to 13% moisture basis.

PRELIMINARY TEST IB, 2013

OIL (%)

Strain	Mean 4 Tests	Lamberton MN	Waseca MN	St. Hyacinthe Que.	Volga SD
MN1410 (I)	19.0	19.6	19.2	18.2	19.0
IA1022 (SCN)	19.4	20.2	20.1	18.8	18.7
Sheyenne (0)	18.9	19.5	19.3	18.5	18.1
OAC 11-37C	18.5	18.3	18.8	17.8	19.2
OAC 11-46C	18.1	19.0	18.2	18.0	17.3
OAC 11-51C	18.7	19.2	19.0	18.1	18.6
SD09CV-1515	18.4	18.8	18.8	17.8	18.0
SD09CV-2038	17.4	18.8	18.0	16.5	16.4
SD09CV-2096	18.4	18.7	19.3	17.0	18.6
SD10CV-1156	18.1	18.6	18.4	17.1	18.2
SD10CV-1181	18.4	19.4	18.9	18.2	17.2
SD10CV-1218	18.9	19.2	19.2	18.6	18.4
SD10CV-1225	19.0	19.9	18.7	19.1	18.3
SD10CV-1235	18.4	19.6	19.3	18.0	16.8
SDFA07-771	17.3	18.3	18.1	17.1	15.8
U11-610107	18.9	19.7	19.2	18.0	18.6
U11-903002	18.3	18.6	18.4	17.6	18.5
U11-907098	18.2	19.2	19.0	17.7	16.9
U11-911074	18.8	19.9	18.6	18.6	18.2
U11-911079	17.5	18.6	17.9	17.1	16.4
U11-913028	19.1	19.9	19.3	18.5	18.8
U11-913102	17.7	19.0	19.1	17.3	15.2
U11-915054	19.0	19.0	19.9	18.2	18.8
U11-917032	19.1	19.7	19.5	18.3	18.9
U11-918019	18.3	19.6	18.7	17.5	17.4
U11-918052	18.9	20.3	19.4	18.4	17.4
U11-932025	18.2	19.4	18.8	17.8	16.6
U11-932077	17.9	19.3	18.6	17.7	16.0
U11-932079	18.1	19.3	18.3	17.9	16.7
U11-905076	18.3	19.6	19.2	18.4	16.1

Uniform Test II, 2013

Ent.	Strain	Parentage	Seed Source	Previous Testing	Gen. Comp.	Unique Traits
1	IA 2102 (II)	A04-545045 x AgriPro 98180-A01-0613	Fehr	**2**	F4	
2.	IA1022 (SCN)	Dairyland 98822 x A00-711024	Fehr	**5**	F5	SCN
3.	IA3024	A97-553017 x Pioneer YB33A99	Fehr	**6**		1% linolenic
4.	LD02-4485 (SCN)	M90-184111 x IA3010	Diers	**2**	F5	SCN
5.	A10-555001	IA3042 x Syngenta 03JR321086	Fehr			1% linolenic
6.	A10-556015	IA3026 x Syngenta 04KL015644	Fehr			7% saturates
7.	A10-653019	IA3042 x Syngenta 03JR321086	Fehr			1% linolenic
8.	AR10-206075	AR05-150109 x Syngenta 03JR321086	Cianzio	1	F3	BSR
9.	AR11-114002	AR04-874024 x Soygenetics F35170C	Cianzio	PTI	F4	BSR
10.	AR11-114057	AR03-163008 x Soygenetics F36150C	Cianzio	PTI	F4	SDS
11.	AR11-214001	AR05-150102 x Syngenta 03JR321086	Cianzio	PTIIA	F5	BSR
12.	AR11-214022	AR06-264007 x Soygenetics F35170C	Cianzio	PTIIA	F4	IDC
13.	E10265LL	IA2065 x IA2078	Wang	PTIIB	F5	1% linolenic
14.	HM09-W084	Dennison x HF03-546	McHale	PTIIB	F4	
15.	LD08-12435a	LD02-4485(2) x (Ina x PI 200538)	Diers	1	F5	SCN, Rag2
16.	LD09-16058	LD01-7323(5) x [(LD01-7323(2) x PI 547875) x (LD01-7323(2) x PR33)]	Diers	PTIIA	F5	rust Rpp1
17.	LD09-30015	LD02-4485(5) x Ripley	Diers	PTIIA	F5	SDS
18.	U09-133005	U02-242055 x U03-200317	Graef	PTIIB	F4	
19.	U09-133021	U02-242055 x U03-200317	Graef	PTIIB	F4	
20.	U09-202083	OAC 05-21 x U03-400435	Graef	PTIIB	F4	
21.	U09-211049	U01-190311 x U03-300134	Graef	PTIIB	F4	
22.	U09-311114	U02-242055 x U03-200317	Graef	1	F5	Rps1K
23.	U09-312115	U02-242055 x U03-300134	Graef	1	F5	Rps1K
24.	U09-316113	LD01-5907 x U03-300134	Graef	1	F5	SCN,Rps
25.	U09-317120	U03-300134 x U03-400435	Graef	1	F5	Rps,

UNIFORM TEST II, 2013

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	Chlorosis Score Humboldt IA	Chlorosis Score Danvers MN	Green Stem Score Wanatah IN	Shattering Score Manhattan KS
IA 2102 (II)	WGTDYYI	3.3	3.8	1.0	1.0
IA1022 (SCN)	PGTSYYI	2.6	3.0	1.0	2.0
IA3024	PGTIYIbI	3.6	3.8	1.0	3.0
LD02-4485 (SCN)	PGBDYLbfI	3.1	3.8	1.0	2.0
A10-555001	WTBDYBrI	3.5	4.0	1.0	3.0
A10-556015	WLtBDYIbI	4.0	4.5	1.0	2.0
A10-653019	WTBDYBrI	3.0	4.3	1.0	4.0
AR10-206075	P+WLtTDYBrI	3.4	3.8	1.0	2.0
AR11-114002	PTTDYYI	4.3	4.3	1.0	4.0
AR11-114057	WGTDYBfI	4.3	4.3	1.0	3.0
AR11-214001	PTBDYBlI	3.4	4.5	1.0	2.0
AR11-214022	WTTIYBlI	3.3	4.3	1.0	2.0
E10265LL	WTBDYBlI	3.7	4.0	1.0	2.0
HM09-W084	WLtTDYLblI	3.0	4.3	1.0	3.0
LD08-12435a	PGBDYBfI	3.3	4.5	1.0	2.0
LD09-16058	PGTDYYI	3.8	4.5	1.0	2.0
LD09-30015	PGBDYBfI	3.4	3.8	1.0	2.0
U09-133005	PTBDYBlI	3.8	4.5	1.0	3.0
U09-133021	PTBDYLgI	3.8	4.3	1.0	3.0
U09-202083	PTBDYBrI	3.5	3.5	1.0	4.0
U09-211049	P+WTBDYBlI	4.0	4.3	1.0	4.0
U09-311114	P+WTBDYBlI	3.6	4.3	1.0	3.0
U09-312115	PLtBDYBlI	3.3	3.8	1.0	2.0
U09-316113	PGBDYIbI	3.1	3.8	1.0	3.0
U09-317120	PLtBDYBlI	3.3	3.8	1.0	2.0

UNIFORM TEST II, 2013

REGIONAL SUMMARY

					Plant	Seed	Seed	Composition	
	Yield	Rank	Maturity	Lodging	Height	Quality	Size	Protein	Oil
No. of Tests	20	20	17	18	15	13	18	8	8
Strain	bu/a	No.	Date	Score	In.	Score	g/100	%	%
IA 2102 (II)	64.1	1	9/22	2.0	33	1.6	16.1	34.7	18.7
IA1022 (SCN)	59.0	24	-4.4	1.6	30	1.7	16.2	33.2	20.4
IA3024	62.0	13	5.3	1.4	33	1.7	16.4	33.9	19.2
LD02-4485 (SCN)	63.1	7	1.4	1.7	32	1.4	14.9	33.4	19.2
A10-555001	61.9	14	4.2	1.2	31	1.3	15.2	34.4	19.0
A10-556015	62.1	12	-2.6	1.4	32	1.6	16.5	34.9	18.8
A10-653019	64.0	3	6.3	1.5	32	1.5	15.1	34.8	18.5
AR10-206075	61.6	18	0.9	1.2	31	1.2	14.5	34.8	19.3
AR11-114002	60.8	21	-1.1	1.2	30	1.8	18.9	36.3	18.7
AR11-114057	59.3	22	-0.2	1.2	28	1.6	18.9	34.6	18.6
AR11-214001	62.5	8	1.0	1.2	30	1.3	17.0	35.2	19.0
AR11-214022	57.7	25	-0.9	1.3	30	1.3	16.6	35.5	18.7
E10265LL	62.3	10	0.6	1.6	34	1.5	17.3	34.9	19.4
HM09-W084	61.6	18	0.4	1.5	32	1.5	15.8	35.2	18.7
LD08-12435a	63.2	6	4.0	1.5	32	1.4	16.1	33.3	19.7
LD09-16058	59.1	23	1.4	1.5	30	1.6	16.1	35.2	18.5
LD09-30015	62.2	11	2.3	1.8	31	1.4	13.5	32.9	19.6
U09-133005	61.5	20	2.2	1.4	32	1.4	15.6	33.7	19.7
U09-133021	64.1	1	1.2	1.5	31	1.7	15.2	34.2	19.5
U09-202083	61.8	16	0.9	1.5	32	1.4	14.7	34.5	19.0
U09-211049	61.9	14	2.6	1.4	33	1.5	16.9	34.0	19.2
U09-311114	64.0	3	5.0	1.4	37	1.6	16.6	33.2	19.6
U09-312115	63.7	5	2.3	1.3	32	1.5	13.5	33.0	20.0
U09-316113	62.5	8	2.6	1.5	34	1.8	15.3	33.5	18.9
U09-317120	61.7	17	-0.2	1.2	31	1.1	12.8	34.0	19.0

127.3 Days After Planting

UNIFORM TEST II, 2013

2012-2013 2-YEAR MEAN

Strain	Yield	Rank	Maturity	Lodging	Plant Height	Seed Quality	Seed Size	Composition	
								Protein	Oil
No. of Tests	37	37	35	37	31	26	37	21	21
	bu/a	No.	Date	Score	In.	Score	g/100	%	%
IA 2102 (II)	62.0	1	9/19	1.9	35	1.6	15.8	34.6	18.9
IA1022 (SCN)	56.6	10	-4.3	1.5	32	1.7	15.8	33.0	20.4
IA3024	59.6	8	6.3	1.4	35	1.7	16.5	34.0	19.1
LD02-4485 (SCN)	60.3	5	1.7	1.5	34	1.5	14.9	33.2	19.4
AR10-206075	59.6	8	1.0	1.3	31	1.3	14.6	34.7	19.4
LD08-12435a	60.9	3	3.7	1.6	33	1.7	15.8	33.3	19.8
U09-311114	60.8	4	5.6	1.4	37	1.6	16.3	33.2	19.7
U09-312115	61.4	2	3.9	1.3	33	1.3	13.2	32.8	20.1
U09-316113	60.3	5	4.2	1.4	35	2.0	15.0	33.1	19.2
U09-317120	59.9	7	1.6	1.2	32	1.1	12.7	33.8	19.2

126.5 Days After Planting

UNIFORM TEST II, 2013

YIELD (bu/a)

Strain	Mean 20 Tests	Carlisle IA	Eldora IA	Boone IA	Dekalb IL	Urbana IL	Lafayette IN	Wanatah IN	Ingham County MI	Lenaweee County MI	Lamberton MN
IA 2102 (II)	64.1	57.3	48.9	50.7	71.0	66.5	71.3	67.1	59.2	74.5	60.2
IA1022 (SCN)	59.0	50.1	44.8	49.9	58.2	59.2	67.7	52.1	49.9	76.6	60.9
IA3024	62.0	57.7	64.0	47.5	63.9	62.2	69.9	56.5	49.2	61.4	53.6
LD02-4485 (SCN)	63.1	52.3	49.8	57.5	74.7	67.3	79.7	64.7	52.6	67.2	54.9
A10-555001	61.9	54.2	48.0	51.3	68.9	59.9	70.2	66.8	46.3	81.3	59.4
A10-556015	62.1	50.3	54.2	58.1	58.4	59.1	76.3	64.8	63.5	73.3	58.4
A10-653019	64.0	57.7	49.7	55.4	77.0	58.8	78.7	67.9	53.0	80.6	58.3
AR10-206075	61.6	54.1	41.7	57.3	60.3	59.7	74.2	66.2	55.4	64.8	53.6
AR11-114002	60.8	45.7	60.3	47.8	57.5	63.4	66.6	56.6	47.2	67.9	55.9
AR11-114057	59.3	50.5	54.3	43.5	56.8	62.6	64.8	54.6	50.2	66.5	55.7
AR11-214001	62.5	52.3	55.2	48.4	65.2	69.1	77.4	64.3	59.6	71.9	59.8
AR11-214022	57.7	50.5	44.8	45.1	63.4	70.4	71.5	61.5	53.5	68.8	52.1
E10265LL	62.3	58.4	59.1	43.1	60.6	67.2	74.4	66.0	55.3	78.3	57.8
HM09-W084	61.6	55.3	49.5	49.9	66.3	65.0	69.1	61.2	51.0	69.1	60.2
LD08-12435a	63.2	60.7	57.9	60.9	59.0	67.5	73.4	64.5	55.0	78.1	54.3
LD09-16058	59.1	48.1	45.9	48.4	61.2	61.6	70.0	59.5	51.5	71.8	57.0
LD09-30015	62.2	54.8	59.9	56.5	69.7	66.1	69.7	68.4	55.7	76.5	57.2
U09-133005	61.5	54.6	62.1	52.0	59.4	55.9	73.1	63.7	50.4	63.5	58.5
U09-133021	64.1	59.8	57.0	50.8	70.2	70.8	75.3	62.0	49.2	79.1	57.4
U09-202083	61.8	51.9	49.5	50.1	60.3	59.4	73.5	63.4	48.2	67.8	56.1
U09-211049	61.9	58.8	46.7	44.6	67.7	58.3	72.9	60.4	52.8	63.7	57.1
U09-311114	64.0	62.0	49.2	52.4	69.5	57.3	76.8	69.8	59.5	76.1	55.9
U09-312115	63.7	58.9	50.9	47.3	75.6	70.7	77.3	58.2	54.7	76.0	59.0
U09-316113	62.5	57.2	48.5	52.7	73.1	63.2	75.0	64.8	48.6	85.0	61.4
U09-317120	61.7	56.6	54.0	40.7	67.5	59.8	66.9	58.6	51.0	80.8	58.2
Location Mean		54.8	52.2	50.5	65.4	63.2	72.6	62.5	52.9	72.8	57.3
C.V. (%)		5.4		10.9	8.2	7.4	6.0	6.9	10.2	8.0	7.9
L.S.D. (5%)		6.2		11.3	11.0	9.7	7.1	7.1	13.4	14.5	7.3
Row Sp. (In.)		27	27	30	30	30	30	30	15	15	30
Rows/Plot		4	4	4	4	4	4	4	6	6	4
Reps		2	2	2	2	2	3	3	2	2	3

*Data not included in mean.

UNIFORM TEST II, 2013

YIELD (bu/a)

Strain	Waseca MN	Stewart MN	Cotesfield NE	Mead NE	Phillips NE	Hoytville OH	Wooster OH	Chatham ONT	Volga SD	Beresford SD
IA 2102 (II)	66.1	46.4	78.8	82.5	92.8	51.7	71.7	53.7	38.3	73.8
IA1022 (SCN)	63.4	55.1	64.4	86.9	83.4	40.4	59.3	49.1	50.3	57.9
IA3024	67.7	43.9	79.1	79.1	93.0	59.4	76.2	45.8	48.4	62.2
LD02-4485 (SCN)	62.5	54.7	77.9	88.7	70.9	66.4	70.7	46.5	36.7	67.2
A10-555001	65.2	47.8	58.7	87.0	88.0	62.7	65.1	51.6	46.7	58.1
A10-556015	66.0	54.2	65.5	77.4	90.6	48.2	55.0	55.8	46.6	67.2
A10-653019	65.6	46.1	73.0	91.8	86.8	64.9	66.0	48.2	45.2	55.1
AR10-206075	73.1	50.8	75.8	81.2	80.8	60.1	80.7	45.4	41.7	54.8
AR11-114002	69.4	51.5	64.5	87.9	85.8	61.7	65.8	56.1	42.4	61.7
AR11-114057	64.0	49.4	64.8	86.4	80.4	63.7	62.1	54.4	48.2	52.9
AR11-214001	61.5	45.8	70.7	91.5	86.4	57.3	76.4	51.5	29.8	56.8
AR11-214022	64.1	46.5	60.9	84.6	68.6	48.0	55.0	46.4	45.0	53.6
E10265LL	65.3	46.1	67.8	76.2	88.2	57.1	75.0	49.1	34.4	67.1
HM09-W084	64.9	47.0	71.2	87.2	75.9	67.2	71.5	43.4	42.9	63.2
LD08-12435a	69.5	55.3	62.7	87.0	79.2	54.2	74.7	54.8	43.7	50.9
LD09-16058	60.8	42.3	71.3	85.6	78.6	54.8	64.4	47.2	36.4	66.7
LD09-30015	72.1	47.4	76.5	80.5	80.5	55.9	64.1	47.8	30.9	53.1
U09-133005	72.0	50.2	65.7	82.3	92.6	52.6	72.5	48.4	41.4	59.4
U09-133021	71.9	51.1	66.1	93.0	91.9	62.4	58.0	54.7	46.8	54.9
U09-202083	74.1	50.6	68.4	84.6	86.4	61.9	79.0	53.3	40.3	58.3
U09-211049	71.0	44.9	80.3	85.0	85.7	54.9	71.5	51.9	45.0	64.6
U09-311114	70.0	43.4	69.6	84.2	88.0	55.2	77.7	54.3	41.2	67.7
U09-312115	72.4	46.1	76.2	77.7	88.1	57.4	78.1	49.6	40.1	60.2
U09-316113	70.4	40.7	76.4	91.9	87.8	52.6	65.3	47.1	32.8	54.9
U09-317120	69.4	43.1	72.2	87.7	91.6	50.2	70.4	54.5	42.1	58.3
Location Mean	67.7	48.0	70.3	85.1	84.9	56.8	69.0	50.4	41.5	60.0
C.V. (%)		6.7	4.3	8.6	5.9	11.9	14.6	7.2	11.1	11.8
L.S.D. (5%)		5.2	6.3	15.0	10.4	11.1	16.5	5.0	7.6	11.6
Row Sp. (In.)	30	30	30	30	30	7.5	7.5	17	30	30
Rows/Plot	4	4	4	4	4	8	8	5	2	2
Reps	3	3	2	2	2	3	3	3	3	3

UNIFORM TEST II, 2013

YIELD RANK

Strain	Yield Rank	Carlisle IA	Eldora IA	Boone IA	Dekalb IL	Urbana IL	Lafayette IN	Wanatah IN	Ingham County MI	Lenaweee County MI	Lamberton MN
IA 2102 (II)	1	9	18	12	5	8	16	4	4	12	3
IA1022 (SCN)	24	23	23	14	23	20	22	25	19	8	2
IA3024	13	7	1	19	14	14	19	23	20	25	23
LD02-4485 (SCN)	7	17	13	3	3	6	1	10	13	20	21
A10-555001	14	15	20	10	9	16	17	5	25	2	6
A10-556015	12	22	10	2	22	21	6	8	1	13	9
A10-653019	3	7	14	6	1	22	2	3	11	4	10
AR10-206075	18	16	25	4	19	18	10	6	6	22	23
AR11-114002	21	25	3	18	24	11	24	22	24	18	18
AR11-114057	22	20	9	23	25	13	25	24	18	21	20
AR11-214001	8	17	8	17	13	4	3	12	2	14	5
AR11-214022	25	20	23	21	15	3	15	16	10	17	25
E10265LL	10	6	5	24	17	7	9	7	7	6	12
HM09-W084	18	12	15	14	12	10	21	17	15	16	3
LD08-12435a	6	2	6	1	21	5	12	11	8	7	22
LD09-16058	23	24	22	16	16	15	18	19	14	15	16
LD09-30015	11	13	4	5	7	9	20	2	5	9	14
U09-133005	20	14	2	9	20	25	13	13	17	24	8
U09-133021	1	3	7	11	6	1	7	15	21	5	13
U09-202083	16	19	15	13	18	19	11	14	23	19	17
U09-211049	14	5	21	22	10	23	14	18	12	23	15
U09-311114	3	1	17	8	8	24	5	1	3	10	18
U09-312115	5	4	12	20	2	2	4	21	9	11	7
U09-316113	8	10	19	7	4	12	8	8	22	1	1
U09-317120	17	11	11	25	11	17	23	20	16	3	11

UNIFORM TEST II, 2013

YIELD RANK

Strain	Waseca MN	Stewart MN	Cotesfield NE	Mead NE	Phillips NE	Hoytville OH	Wooster OH	Chatham ONT	Volga SD	Beresford SD
IA 2102 (II)	14	15	3	18	2	20	10	8	19	1
IA1022 (SCN)	22	2	22	11	17	24	21	14	1	16
IA3024	13	21	2	22	1	10	6	23	2	9
LD02-4485 (SCN)	23	3	4	5	24	2	12	21	20	3
A10-555001	18	11	25	9	9	5	17	11	5	15
A10-556015	15	4	19	24	6	22	23	2	6	4
A10-653019	16	16	9	3	12	3	14	17	7	18
AR10-206075	2	7	8	20	18	9	1	24	14	21
AR11-114002	11	5	21	6	15	8	15	1	12	10
AR11-114057	21	10	20	12	20	4	20	6	3	24
AR11-214001	24	19	13	4	14	12	5	12	25	17
AR11-214022	20	14	24	15	25	23	23	22	9	22
E10265LL	17	16	16	25	7	13	7	15	22	5
HM09-W084	19	13	12	8	23	1	11	25	11	8
LD08-12435a	10	1	23	10	21	18	8	3	10	25
LD09-16058	25	24	11	13	22	17	18	19	21	6
LD09-30015	4	12	5	21	19	14	19	18	24	23
U09-133005	5	9	18	19	3	19	9	16	15	12
U09-133021	6	6	17	1	4	6	22	4	4	20
U09-202083	1	8	15	16	13	7	2	9	17	13
U09-211049	7	20	1	14	16	16	11	10	8	7
U09-311114	9	22	14	17	10	15	4	7	16	2
U09-312115	3	16	7	23	8	11	3	13	18	11
U09-316113	8	25	6	2	11	19	16	20	23	19
U09-317120	11	23	10	7	5	21	13	5	13	14

UNIFORM TEST II, 2013

MATURITY (date)

Strain	Mean 17 Tests	Carlisle IA	Eldora IA	Boone IA	Dekalb IL	Urbana IL	Lafayette IN	Wanatah IN	Ingham County MI	Lenaweee County MI	Lamberton MN
IA 2102 (II)	9/22	9/20	9/24	9/20	9/26	9/10	9/18	9/18			10/3
IA1022 (SCN)	-4.4	-6	-2	-4	-7	-5	-6	-8			-6
IA3024	5.3	7	4	8	5	5	5	8			1
LD02-4485 (SCN)	1.4	0	1	3	4	0	1	5			-3
A10-555001	4.2	3	5	8	6	1	4	6			1
A10-556015	-2.6	-6	-1	-2	-4	-2	-5	-3			-6
A10-653019	6.3	7	6	8	9	6	7	9			1
AR10-206075	0.9	-1	2	3	3	0	1	1			-1
AR11-114002	-1.1	-3	-1	2	-1	-1	-4	-3			-3
AR11-114057	-0.2	-1	2	0	3	-2	-5	0			-2
AR11-214001	1.0	0	2	5	4	2	3	3			-4
AR11-214022	-0.9	-4	1	1	-1	0	0	0			-6
E10265LL	0.6	-1	1	7	3	0	1	2			-2
HM09-W084	0.4	-1	3	5	4	0	-1	-2			-1
LD08-12435a	4.0	5	8	6	5	5	4	6			-1
LD09-16058	1.4	0	2	2	4	-2	0	6			-3
LD09-30015	2.3	3	7	4	5	0	2	7			-1
U09-133005	2.2	4	4	5	4	0	2	3			-1
U09-133021	1.2	2	1	3	3	2	1	0			-1
U09-202083	0.9	1	2	4	0	0	2	1			-3
U09-211049	2.6	5	3	7	5	2	3	5			-1
U09-311114	5.0	8	4	9	6	3	6	7			3
U09-312115	2.3	5	4	7	5	2	3	3			-1
U09-316113	2.6	8	4	6	5	2	4	3			0
U09-317120	-0.2	2	2	4	1	-2	-1	0			-4
Date Planted	5/17	5/18	5/17	5/18	5/14	5/15	5/23	5/14	6/4	5/17	5/17
Days to Mature	127	125	130	125	135	118	118	127			139

UNIFORM TEST II, 2013

MATURITY (date)

Strain	Waseca MN	Stewart MN	Cotesfield NE	Mead NE	Phillips NE	Hoytville OH	Wooster OH	Chatham ONT	Volga SD	Beresford SD
IA 2102 (II)	10/5	10/4		9/16	9/19	9/12	9/11	9/28	9/28	9/24
IA1022 (SCN)	-6	-5		-3	-4	-1	-2	-5	-1	-4
IA3024	3	1		7	4	8	8	5	11	0
LD02-4485 (SCN)	2	-1		6	-2	3	2	1	0	1
A10-555001	2	3		5	-1	5	19	4	2	-1
A10-556015	-6	1		-4	-5	0	-3	-1	1	-1
A10-653019	5	5		8	7	8	9	4	13	-4
AR10-206075	-2	3		3	-2	6	5	-1	0	-4
AR11-114002	-3	6		-3	-4	0	0	-2	-1	1
AR11-114057	2	6		-1	-4	0	-1	-2	1	0
AR11-214001	-2	2		1	-3	5	3	0	1	-4
AR11-214022	-2	2		-2	-4	3	0	1	-1	-5
E10265LL	-1	1		-1	-1	0	1	-1	1	-1
HM09-W084	-2	-3		1	-4	3	4	0	0	1
LD08-12435a	3	1		5	-1	10	7	5	5	-4
LD09-16058	-1	3		1	-3	7	3	0	5	1
LD09-30015	4	1		3	-1	7	2	1	-1	-3
U09-133005	1	3		6	-1	5	5	2	1	-4
U09-133021	-1	2		4	-1	3	4	2	1	-4
U09-202083	-1	1		2	0	6	2	1	1	-3
U09-211049	0	3		4	2	6	4	2	1	-4
U09-311114	3	3		9	5	9	10	4	0	-2
U09-312115	0	0		3	1	6	3	1	1	-2
U09-316113	1	2		3	-3	6	5	0	0	0
U09-317120	-2	2		0	-1	2	-1	0	1	-5
Date Planted	5/15	5/14	5/22	5/15	5/17	5/17	5/17	6/5	5/9	5/6
Days to Mature	143	143		124	125	118	117	115	142	141

UNIFORM TEST II, 2013

LODGING (score)

Strain	Mean 18 Tests	Carlisle IA	Eldora IA	Boone IA	Dekalb IL	Urbana IL	Lafayette IN	Wanatah IN	Ingham County MI	Lenaweee County MI	Lamberton MN
IA 2102 (II)	2.0	2.0	2.3	1.5	2.5	2.5	1.3	1.2	4.0	3.0	2.0
IA1022 (SCN)	1.6	2.0	2.0	1.5	1.8	2.3	1.2	1.3	1.5	2.5	1.0
IA3024	1.4	1.8	2.0	1.5	1.5	1.8	1.0	1.0	1.0	1.5	1.0
LD02-4485 (SCN)	1.7	1.8	2.0	1.8	1.5	2.5	1.2	1.0	2.0	2.5	2.0
A10-555001	1.2	1.3	1.5	1.5	1.0	1.0	1.0	1.0	1.5	1.0	1.0
A10-556015	1.4	1.3	2.0	2.0	1.8	1.5	1.0	1.3	2.0	1.5	1.0
A10-653019	1.5	1.8	1.8	1.8	1.8	1.8	1.2	1.0	1.0	1.5	1.0
AR10-206075	1.2	1.3	1.5	1.8	1.3	1.3	1.0	1.0	1.5	1.0	1.0
AR11-114002	1.2	1.0	1.5	1.8	1.5	1.5	1.0	1.0	1.0	1.0	1.0
AR11-114057	1.2	1.0	1.8	1.5	1.5	1.0	1.0	1.0	1.0	1.0	1.0
AR11-214001	1.2	1.5	1.5	1.5	1.3	1.3	1.0	1.0	1.0	2.0	1.0
AR11-214022	1.3	1.5	1.8	2.0	2.0	1.5	1.0	1.0	1.5	2.0	1.0
E10265LL	1.6	1.5	2.0	1.8	1.8	2.8	1.2	1.3	1.5	2.0	1.0
HM09-W084	1.5	1.5	1.5	2.0	1.5	2.3	1.0	1.0	1.0	2.0	1.0
LD08-12435a	1.5	2.0	2.0	2.0	1.5	1.8	1.0	1.0	2.0	2.0	2.0
LD09-16058	1.5	1.8	2.0	2.0	2.0	1.8	1.0	1.0	2.0	3.0	1.0
LD09-30015	1.8	2.3	2.3	2.0	2.0	3.3	1.2	1.7	2.5	1.5	2.0
U09-133005	1.4	1.8	2.0	1.8	1.5	1.3	1.0	1.0	2.0	2.0	2.0
U09-133021	1.5	1.5	1.8	1.5	1.8	1.8	1.0	1.0	1.0	3.0	2.0
U09-202083	1.5	1.5	2.0	1.8	2.0	1.8	1.0	1.2	1.0	1.5	2.0
U09-211049	1.4	1.8	2.0	1.5	1.5	1.5	1.0	1.0	1.5	2.0	1.0
U09-311114	1.4	1.5	2.3	1.5	1.8	1.5	1.0	1.0	1.5	2.0	2.0
U09-312115	1.3	1.5	1.5	1.8	1.5	1.8	1.0	1.0	1.0	1.5	1.0
U09-316113	1.5	2.0	2.0	2.5	1.8	1.5	1.0	1.0	2.5	1.0	2.0
U09-317120	1.2	1.5	1.5	1.5	1.5	1.3	1.0	1.0	1.0	1.0	1.0

UNIFORM TEST II, 2013

LODGING (score)

Strain	Waseca MN	Stewart MN	Cotesfield NE	Mead NE	Phillips NE	Hoytville OH	Wooster OH	Chatham ONT	Volga SD	Beresford SD
IA 2102 (II)	3.0	2.0			3.0	1.0	1.0	1.7	1.5	1.0
IA1022 (SCN)	2.0	1.0			3.0	1.0	1.0	1.0	1.0	1.0
IA3024	2.0	1.0			1.0	1.0	1.0	1.0	3.0	1.0
LD02-4485 (SCN)	2.0	1.0			3.0	1.0	1.0	1.0	2.0	1.0
A10-555001	2.0	2.0			1.0	1.0	1.0	1.0	1.0	1.0
A10-556015	2.0	2.0			1.0	1.0	1.0	1.0	1.0	1.0
A10-653019	2.0	1.0			3.0	1.0	1.0	1.7	2.0	1.0
AR10-206075	2.0	1.0			1.0	1.0	1.0	1.0	1.0	1.0
AR11-114002	2.0	1.0			2.0	1.0	1.0	1.0	1.0	1.0
AR11-114057	2.0	1.0			1.0	1.0	1.0	1.0	1.0	1.0
AR11-214001	2.0	1.0			1.0	1.0	1.0	1.0	1.0	1.0
AR11-214022	2.0	1.0			1.0	1.0	1.0	1.0	1.0	1.0
E10265LL	2.0	2.0			3.0	1.0	1.0	1.7	1.0	1.0
HM09-W084	2.0	1.0			3.0	1.0	1.0	1.0	3.0	1.0
LD08-12435a	2.0	1.0			2.0	1.0	1.0	1.0	1.0	1.0
LD09-16058	2.0	1.0			2.0	1.0	1.0	1.3	1.0	1.0
LD09-30015	2.0	1.0			2.0	1.0	1.0	1.3	3.0	1.0
U09-133005	2.0	1.0			1.0	1.0	1.0	1.0	1.5	1.0
U09-133021	2.0	1.0			2.0	1.0	1.0	1.0	1.0	1.0
U09-202083	2.0	1.0			2.0	1.0	1.0	1.0	1.5	1.0
U09-211049	2.0	1.0			2.0	1.0	1.0	1.0	1.5	1.0
U09-311114	2.0	1.0			2.0	1.0	1.0	1.0	1.0	1.0
U09-312115	2.0	1.0			1.0	1.0	1.0	1.0	1.0	1.0
U09-316113	2.0	1.0			1.0	1.0	1.0	1.0	2.0	1.0
U09-317120	2.0	1.0			1.0	1.0	1.0	1.0	1.0	1.0

UNIFORM TEST II, 2013

PLANT HEIGHT (inches)

Strain	Mean 15 Tests	Carlisle IA	Eldora IA	Boone IA	Dekalb IL	Urbana IL	Lafayette IN	Wanatah IN	Ingham County MI	Lenaweee County MI	Lamberton MN
IA 2102 (II)	33		33	27	31	37	36	32	37	31	
IA1022 (SCN)	30		30	24	31	33	32	28	27	29	
IA3024	33		35	29	31	35	36	32	29	27	
LD02-4485 (SCN)	32		33	25	34	35	34	32	29	30	
A10-555001	31		31	24	30	33	33	31	31	30	
A10-556015	32		33	27	28	36	36	33	36	30	
A10-653019	32		31	25	32	37	35	35	29	28	
AR10-206075	31		31	25	28	35	34	30	29	28	
AR11-114002	30		31	28	29	35	31	30	26	24	
AR11-114057	28		28	23	27	32	29	26	27	25	
AR11-214001	30		29	24	30	32	32	29	32	28	
AR11-214022	30		27	22	29	34	34	30	32	27	
E10265LL	34		36	25	33	36	37	33	36	32	
HM09-W084	32		32	26	31	39	34	33	28	29	
LD08-12435a	32		30	27	32	36	35	33	35	30	
LD09-16058	30		25	23	30	35	33	29	29	27	
LD09-30015	31		32	26	29	32	34	33	28	29	
U09-133005	32		30	28	34	36	36	33	27	29	
U09-133021	31		32	26	32	36	35	34	28	32	
U09-202083	32		33	28	32	36	35	32	27	28	
U09-211049	33		35	27	31	37	36	31	34	30	
U09-311114	37		37	30	33	40	41	37	35	33	
U09-312115	32		30	27	30	36	34	31	30	31	
U09-316113	34		35	29	33	39	36	34	38	31	
U09-317120	31		31	24	29	36	34	31	27	30	

UNIFORM TEST II, 2013

PLANT HEIGHT (inches)

Strain	Waseca MN	Stewart MN	Cotesfield NE	Mead NE	Phillips NE	Hoytville OH	Wooster OH	Chatham ONT	Volga SD	Beresford SD
IA 2102 (II)		29		40		31	33	34	38	33
IA1022 (SCN)		26		37		27	29	33	40	25
IA3024		28		42		30	33	34	43	35
LD02-4485 (SCN)		27		38		31	29	34	40	31
A10-555001		24		37		30	28	34	42	25
A10-556015		29				29	27	33	44	30
A10-653019		27		38		29	29	37	41	30
AR10-206075		25		33		28	31	34	39	29
AR11-114002		20		38		31	29	33	35	30
AR11-114057		23		34		30	27	34	39	21
AR11-214001		25		34		29	27	35	36	26
AR11-214022		27		38		29	32	34	33	29
E10265LL		32		36		30	33	34	41	36
HM09-W084		26		38		33	29	36	44	26
LD08-12435a		27		39		27	30	34	34	28
LD09-16058		22		39		26	29	33	37	28
LD09-30015		24		36		30	30	34	40	25
U09-133005		20		42		29	31	33	41	37
U09-133021		20				29	29	34	37	35
U09-202083		23		40		29	31	35	41	30
U09-211049		19		44		26	32	33	42	34
U09-311114		33		50		30	35	38	45	33
U09-312115		26		40		28	31	35	36	32
U09-316113		26		43		27	30	36	41	32
U09-317120		24		36		29	30	36	40	28

UNIFORM TEST II, 2013

SEED QUALITY (score)

Strain	Mean 13 Tests	Carlisle IA	Eldora IA	Boone IA	Dekalb IL	Urbana IL	Lafayette IN	Wanatah IN	Ingham County MI	Lenaweee County MI	Lamberton MN
IA 2102 (II)	1.6			2.0		2.0	1.0	1.5			1.0
IA1022 (SCN)	1.7			2.0		2.0	1.0	1.5			2.0
IA3024	1.7			3.0		2.0	1.0	1.5			2.0
LD02-4485 (SCN)	1.4			2.0		2.0	1.0	1.0			1.0
A10-555001	1.3			2.0		2.0	1.0	1.0			1.0
A10-556015	1.6			2.0		1.0	1.0	1.5			2.0
A10-653019	1.5			2.0		2.0	1.0	1.0			1.0
AR10-206075	1.2			2.0		1.0	1.0	1.0			1.0
AR11-114002	1.8			2.0		1.0	1.0	1.5			2.0
AR11-114057	1.6			2.0		2.0	1.5	1.5			1.0
AR11-214001	1.3			2.0		1.0	1.0	1.0			1.0
AR11-214022	1.3			2.0		1.0	1.0	1.5			2.0
E10265LL	1.5			2.0		2.0	1.0	1.0			1.0
HM09-W084	1.5			2.0		2.0	1.0	1.0			1.0
LD08-12435a	1.4			2.0		2.0	1.0	1.0			1.0
LD09-16058	1.6			2.0		2.0	1.0	1.0			1.0
LD09-30015	1.4			2.0		1.0	1.0	1.0			1.0
U09-133005	1.4			2.0		1.0	1.0	1.5			1.0
U09-133021	1.7			2.0		2.0	1.5	1.0			1.0
U09-202083	1.4			2.0		1.0	1.0	1.0			1.0
U09-211049	1.5			2.0		1.0	1.0	1.5			1.0
U09-311114	1.6			1.0		2.0	1.0	1.0			1.0
U09-312115	1.5			2.0		2.0	1.0	1.0			1.0
U09-316113	1.8			2.0		3.0	1.5	1.5			2.0
U09-317120	1.1			2.0		1.0	1.0	1.0			1.0

UNIFORM TEST II, 2013

SEED QUALITY (score)

Strain	Waseca MN	Stewart MN	Cotesfield NE	Mead NE	Phillips NE	Hoytville OH	Wooster OH	Chatham ONT	Volga SD	Beresford SD
IA 2102 (II)	1.0	1.0		2.0	3.0	1.0	1.0	1.0		3.0
IA1022 (SCN)	3.0	1.0		2.0	2.0	1.0	1.0	1.3		2.0
IA3024	2.0	2.0		2.0	3.0	1.0	1.0	1.0		1.0
LD02-4485 (SCN)	1.0	2.0		1.0	2.0	1.0	1.0	1.3		2.0
A10-555001	1.0	1.0		1.0	2.0	1.0	1.0	1.7		1.0
A10-556015	2.0	2.0		2.0	2.0	1.0	1.0	1.7		1.0
A10-653019	1.0	2.0		2.0	2.0	1.0	1.0	2.0		1.0
AR10-206075	2.0	1.0		1.0	1.0	1.0	1.0	1.3		1.0
AR11-114002	3.0	4.0		2.0	2.0	1.0	1.0	1.3		2.0
AR11-114057	1.0	4.0		2.0	2.0	1.0	1.0	1.0		1.0
AR11-214001	2.0	2.0		1.0	2.0	1.0	1.0	1.0		1.0
AR11-214022	1.0	1.0		2.0	2.0	1.0	1.0	1.0		1.0
E10265LL	1.0	2.0		2.0	3.0	1.0	1.0	1.0		1.0
HM09-W084	3.0	1.0		2.0	2.0	1.0	1.0	1.0		1.0
LD08-12435a	1.0	1.0		2.0	2.0	1.0	1.0	1.0		2.0
LD09-16058	1.0	5.0		1.0	2.0	1.0	1.0	1.3		1.5
LD09-30015	1.0	1.0		2.0	3.0	1.0	1.0	1.3		2.0
U09-133005	2.0	2.0		2.0	2.0	1.0	1.0	1.3		1.0
U09-133021	2.0	3.0		2.0	3.0	1.0	1.0	1.7		1.0
U09-202083	2.0	2.0		2.0	2.0	1.0	1.0	1.0		1.0
U09-211049	2.0	2.0		2.0	3.0	1.0	1.0	1.3		1.0
U09-311114	3.0	4.0		2.0	2.0	1.0	1.0	1.3		1.0
U09-312115	3.0	2.0		2.0	1.0	1.0	1.0	1.0		1.0
U09-316113	2.0	2.0		2.0	2.0	2.0	2.0	1.0		1.0
U09-317120	1.0	1.0		1.0	1.0	1.0	1.0	1.0		1.0

UNIFORM TEST II, 2013

SEED SIZE (g/100)

Strain	Mean 18 Tests	Carlisle IA	Eldora IA	Boone IA	Dekalb IL	Urbana IL	Lafayette IN	Wanatah IN	Ingham County MI	Lenaweee County MI	Lamberton MN
IA 2102 (II)	16.1	15.6	14.0	14.7		16.2	15.7	16.9	21.4	18.5	16.1
IA1022 (SCN)	16.2	15.9	15.6	14.5		16.9	15.2	15.4	19.4	18.1	17.6
IA3024	16.4	16.6	15.2	15.0		15.9	15.5	16.9	20.5	19.0	16.4
LD02-4485 (SCN)	14.9	14.9	14.1	14.5		15.6	14.3	15.2	18.8	16.8	14.0
A10-555001	15.2	14.7	14.2	13.4		14.5	14.8	15.6	19.2	17.8	15.0
A10-556015	16.5	16.5	16.7	14.7		16.0	15.1	16.0	20.7	19.2	18.4
A10-653019	15.1	15.2	13.6	13.9		13.8	15.6	15.7	19.1	16.8	15.3
AR10-206075	14.5	14.5	14.0	13.5		13.7	14.0	15.0	19.3	16.1	14.4
AR11-114002	18.9	17.9	17.8	16.2		18.4	18.4	19.6	23.3	22.5	19.5
AR11-114057	18.9	18.3	18.3	16.4		19.0	18.3	20.2	24.5	22.4	20.0
AR11-214001	17.0	16.9	16.1	15.6		17.6	17.4	17.2	22.5	19.3	16.8
AR11-214022	16.6	16.2	15.9	15.0		17.3	16.2	16.6	21.7	18.6	15.7
E10265LL	17.3	17.1	16.6	16.0		18.0	16.1	17.8	22.2	20.1	17.2
HM09-W084	15.8	15.0	15.2	14.0		15.6	15.4	15.9	21.1	17.4	15.3
LD08-12435a	16.1	16.2	15.3	16.0		16.6	15.8	15.7	20.3	18.3	15.4
LD09-16058	16.1	14.8	14.5	14.0		15.5	15.5	16.1	20.1	19.0	16.8
LD09-30015	13.5	13.3	12.6	12.7		13.0	12.7	13.9	17.1	15.8	12.6
U09-133005	15.6	15.9	15.3	14.1		13.7	15.2	16.8	19.4	17.0	16.6
U09-133021	15.2	15.0	13.7	13.5		14.9	14.5	15.6	19.6	17.3	15.6
U09-202083	14.7	14.6	14.5	13.5		13.4	14.0	15.4	18.2	16.8	14.7
U09-211049	16.9	17.2	16.0	14.1		16.3	16.5	16.5	22.2	19.1	17.8
U09-311114	16.6	16.5	15.6	15.5		15.9	16.6	16.1	21.2	20.0	16.7
U09-312115	13.5	13.5	12.7	11.5		13.1	14.1	12.2	18.7	16.5	13.7
U09-316113	15.3	15.3	14.5	13.0		14.6	15.3	15.6	21.7	18.0	15.2
U09-317120	12.8	12.9	13.3	10.9		11.4	12.2	12.0	17.5	15.0	13.6

UNIFORM TEST II, 2013

SEED SIZE (g/100)

Strain	Waseca MN	Stewart MN	Cotesfield NE	Mead NE	Phillips NE	Hoytville OH	Wooster OH	Chatham ONT	Volga SD	Beresford SD
IA 2102 (II)	15.7	13.7		16.5	17.5	12.9	16.1	16.4	13.1	18.6
IA1022 (SCN)	16.4	14.9		16.3	18.1	12.6	16.4	15.1	14.8	17.6
IA3024	16.7	13.0		17.1	18.5	14.6	16.6	17.0	12.0	18.9
LD02-4485 (SCN)	13.4	13.5		15.9	16.0	13.2	15.2	15.1	12.1	15.5
A10-555001	15.0	13.0		16.4	16.4	13.0	14.8	15.6	14.5	15.5
A10-556015	17.4	14.9		15.4	18.2	14.3	17.2	18.7	15.0	13.1
A10-653019	14.5	13.1		16.9	17.1	13.1	15.4	16.3	12.9	13.9
AR10-206075	13.8	13.2		15.5	15.3	13.0	16.2	14.4	11.5	13.8
AR11-114002	18.3	16.4		19.1	20.0	16.3	19.8	20.7	15.8	19.7
AR11-114057	18.4	14.2		20.0	20.8	15.5	19.5	20.9	17.1	16.9
AR11-214001	16.1	15.1		18.5	19.3	14.2	17.9	17.5	13.5	13.9
AR11-214022	16.2	15.5		17.5	17.7	13.7	16.1	17.1	14.0	17.1
E10265LL	16.3	14.8		17.9	19.8	13.7	18.0	16.9	14.4	18.5
HM09-W084	16.2	13.9		17.4	16.6	14.7	15.8	16.3	14.5	13.6
LD08-12435a	14.9	14.6		16.7	17.3	13.7	16.1	17.1	14.9	15.8
LD09-16058	15.8	14.3		16.8	17.7	14.1	16.3	17.9	14.5	17.0
LD09-30015	13.0	11.2		14.0	14.7	11.0	14.0	13.5	11.1	16.2
U09-133005	14.4	15.5		15.9	17.8	14.4	16.4	16.4	12.8	13.7
U09-133021	15.0	12.9		16.8	16.1	12.6	15.0	15.9	14.1	14.9
U09-202083	13.8	12.4		15.0	16.5	12.6	15.7	15.1	12.0	15.8
U09-211049	16.9	13.8		17.6	19.6	14.9	17.1	17.4	14.7	17.6
U09-311114	16.2	13.1		18.2	19.1	15.0	17.9	18.0	13.7	13.8
U09-312115	14.8	11.6		13.3	14.8	11.5	14.2	14.7	10.8	12.2
U09-316113	14.1	12.6		15.8	17.2	13.9	14.5	16.8	12.6	15.3
U09-317120	13.0	10.3		13.3	14.5	10.9	12.9	13.7	12.1	11.8

UNIFORM TEST II, 2013

PROTEIN (%)

Strain	Mean 8 Tests	Urbana IL	Lamberton MN	Stewart MN	Waseca MN	Mead NE	Phillips NE	Chatham* ONT	Volga SD
IA 2102 (II)	34.7	34.3	33.9	33.4	33.7	35.1	36.0	35.4	35.9
IA1022 (SCN)	33.2	33.1	32.3	30.5	32.5	34.0	35.1	34.0	34.1
IA3024	33.9	32.7	33.0	32.0	32.6	35.3	35.5	33.8	36.4
LD02-4485 (SCN)	33.4	33.0	32.7	32.0	31.8	34.5	35.2	33.8	34.0
A10-555001	34.4	33.8	33.1	32.3	32.7	36.3	36.3	35.2	35.7
A10-556015	34.9	34.2	34.4	33.5	33.4	35.2	36.0	36.1	36.1
A10-653019	34.8	34.2	32.9	33.5	33.5	36.5	36.5	35.5	36.1
AR10-206075	34.8	34.3	33.8	33.3	33.0	35.8	36.2	35.9	35.9
AR11-114002	36.3	36.0	35.1	36.2	34.8	37.2	37.4	36.4	37.2
AR11-114057	34.6	35.0	32.8	34.8	33.1	35.5	36.1	34.7	34.8
AR11-214001	35.2	34.5	33.4	33.7	33.7	35.9	36.5	36.6	37.1
AR11-214022	35.5	35.2	35.8	34.2	33.5	36.2	36.4	36.9	36.1
E10265LL	34.9	34.5	33.1	33.2	33.3	36.4	36.7	35.9	35.8
HM09-W084	35.2	35.3	34.0	33.1	33.6	36.0	36.6	36.2	37.1
LD08-12435a	33.3	32.7	32.8	32.0	31.4	35.4	34.9	32.7	34.7
LD09-16058	35.2	34.6	34.1	35.3	34.2	35.9	36.1	35.9	35.7
LD09-30015	32.9	32.8	31.8	31.5	31.5	34.4	34.1	32.8	34.6
U09-133005	33.7	33.0	32.5	32.6	32.7	34.7	34.7	33.7	35.3
U09-133021	34.2	32.9	32.5	36.9	33.1	34.3	34.3	34.2	35.3
U09-202083	34.5	33.0	33.7	34.2	32.6	35.4	35.5	34.8	36.4
U09-211049	34.0	32.7	33.0	34.1	33.2	34.9	35.6	33.8	34.5
U09-311114	33.2	32.8	31.3	31.9	32.5	35.0	34.9	32.5	35.0
U09-312115	33.0	32.3	31.0	31.4	32.6	34.2	33.9	33.8	35.2
U09-316113	33.5	33.0	31.9	30.9	33.4	33.7	34.6	34.1	36.2
U09-317120	34.0	34.0	32.9	31.3	32.7	34.7	35.6	35.7	34.9

UNIFORM TEST II, 2013

OIL (%)

Strain	Mean 8 Tests	Urbana IL	Lamberton MN	Stewart MN	Waseca MN	Mead NE	Phillips NE	Chatham* ONT	Volga SD
IA 2102 (II)	18.7	19.6	18.8	18.2	18.8	19.1	18.7	18.1	18.3
IA1022 (SCN)	20.4	20.6	20.6	20.8	20.0	20.5	19.8	20.2	20.4
IA3024	19.2	20.5	18.7	19.3	19.4	19.8	19.6	19.0	17.8
LD02-4485 (SCN)	19.2	20.1	19.3	18.8	18.5	19.4	19.2	19.1	19.1
A10-555001	19.0	19.8	18.9	18.7	19.6	19.2	18.9	18.5	18.3
A10-556015	18.8	19.2	19.1	18.9	18.9	19.0	19.0	17.9	18.6
A10-653019	18.5	19.8	19.4	17.4	18.1	18.8	18.5	17.8	18.1
AR10-206075	19.3	20.1	19.7	18.9	19.4	19.8	19.5	18.6	18.6
AR11-114002	18.7	19.4	19.3	17.1	18.8	18.8	18.8	18.8	18.3
AR11-114057	18.6	19.1	19.3	17.1	18.2	18.7	18.8	19.1	18.6
AR11-214001	19.0	19.9	19.2	19.5	18.9	19.4	19.1	17.9	18.2
AR11-214022	18.7	19.6	18.6	17.7	19.0	19.2	18.8	17.8	19.0
E10265LL	19.4	19.9	20.0	18.2	19.9	19.6	19.3	18.5	19.4
HM09-W084	18.7	19.5	18.8	18.6	18.8	19.2	18.9	17.9	18.3
LD08-12435a	19.7	20.8	19.0	19.0	20.0	19.6	19.8	20.2	19.3
LD09-16058	18.5	19.2	18.9	17.2	18.8	18.8	18.6	18.0	18.2
LD09-30015	19.6	20.1	19.4	19.2	19.8	19.7	19.6	19.9	19.3
U09-133005	19.7	20.5	19.8	19.5	19.3	20.0	19.9	19.7	19.0
U09-133021	19.5	20.8	19.6	17.3	19.4	19.9	20.0	19.9	19.0
U09-202083	19.0	19.7	19.0	20.1	18.4	19.2	19.1	18.8	17.5
U09-211049	19.2	20.1	18.8	19.0	18.4	19.3	19.3	19.1	19.2
U09-311114	19.6	20.7	19.3	17.8	19.6	19.9	19.9	20.3	19.2
U09-312115	20.0	21.1	20.5	19.3	19.5	20.3	20.3	19.7	18.9
U09-316113	18.9	19.6	18.8	18.9	18.6	19.7	19.3	18.8	17.7
U09-317120	19.0	19.5	19.3	19.1	19.3	19.3	19.2	17.9	18.8

Preliminary Test IIA, 2013

Ent.	Strain	Parentage	Seed Source	Gen. Comp.	Unique Traits
1	IA 2102 (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.	AR12-228004	AR05-250002 x Syngenta 04KL108370	Cianzo	F4	BSR
5.	AR12-228016	AR07-176037 x Syngenta 05RM926756	Cianzo	F4	BSR
6.	AR12-228031	AR05-250101 x Golden Harvest 24040	Cianzo	F4	IDC
7.	AR12-228047	PI 424169A x Golden Harvest 24040	Cianzo	F4	Phyto
8.	AR12-228063	AR06-264007 x Golden Harvest H-2285	Cianzo	F4	Phyto
9.	AR12-228097	AR05-250002 x Syngenta 03JR101916	Cianzo	F4	SDS
10.	AR12-228114	AR07-376031 x Syngenta 04KL108370	Cianzo	F4	SDS
11.	AR12-228117	AR07-376031 x Syngenta 03JR321088	Cianzo	F4	SDS
12.	AR12-228127	AR07-176119 x Syngenta 04KL108370	Cianzo	F4	
13.	AR12-228136	AR07-176075 x Syngenta 05JR200591	Cianzo	F4	
14.	AR12-228141	AR07-176075 x Syngenta 05RM926756	Cianzo	F4	
15.	AR12-228146	AR07-276077 x Syngenta 03JR321088	Cianzo	F4	
16.	AR12-228149	AR07-276077 x Syngenta 05RM926756	Cianzo	F4	
17.	E11095	LD01-5907 x (GD0518 x LD01-7323)	Wang	F5	
18.	E11291LL	IA2078 x E07933 (A02-381100 x Skylla)	Wang	F5	1% linolenic acid
19.	E11399	Skylla x PI 567597C	Wang	F5	
20.	E11401	Skylla x E08901 (E00003 x PI 567543C)	Wang	F5	
21.	E11431	Skylla x PI 567537	Wang	F5	
22.	LD10-5213a	LD02-4485(5) x (Ina x PI 200538)	Diers	F5	Rag2, SCN
23.	LD10-5330a	LD02-4485(5) x (Ina x PI 200538)	Diers	F5	Rag2, SCN
24.	LD10-5587a	LD04-8782(2) x [LD03-6566 x (LD02-4485 x (Ina x PI 200538))]	Diers	F5	Rag2?, SCN
25.	LD10-30036	LD05-16657 x LDX08-210a	Diers	F4	Rag1+2, SCN
26.	HM09-W053	HS0-3243 x Dennison	McHale	F4	
27.	HM10-W083	Dennison x HS4-9864	McHale	F4	
28.	HM11-G016	HF04-0648 x HS5-362	McHale	F4	
29.	HM11-G021	HF04-0648 x HS5-362	McHale	F4	
30.	HM11-G023	HF04-0648 x HS5-362	McHale	F4	

PRELIMINARY TEST IIA, 2013

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	Shattering Score Manhattan KS
IA 2102 (II)	WGTDYYI	2.0
IA1022 (SCN)	PGTSYYI	2.0
IA3024	PGTIYIbI	2.0
AR12-228004	PGBDYBfI	4.0
AR12-228016	PTBDYBrI	2.0
AR12-228031	PT+GBDYBl+IbI	4.0
AR12-228047	PGBDYIbfI	2.0
AR12-228063	PTTDYBlI	2.0
AR12-228097	PTTDYBlI	2.0
AR12-228114	PLtTIYBrI	3.0
AR12-228117	PTTDYBl+BrI	2.0
AR12-228127	PLtTDYBlI	2.0
AR12-228136	PTTDYBlI	4.0
AR12-228141	PTBDYLbr+LblI	2.0
AR12-228146	PGTDYIbI	2.0
AR12-228149	PGTDYBfI	2.0
E11095	PTTDYIbI	2.0
E11291LL	P+WTTDYBlI	1.0
E11399	PTTDYBlI	2.0
E11401	PTTDYBlI	1.0
E11431	PTTDYBlI	2.0
LD10-5213a	PGBDYBfI	1.0
LD10-5330a	PGBDYLbfI	2.0
LD10-5587a	WLtTDYBlI	2.0
LD10-30036	WTTDYBlI	2.0
HM09-W053	WLtTDYIbI	3.0
HM10-W083	WLtTDYBlI	3.0
HM11-G016	PGBDYIbI	3.0
HM11-G021	PGT+BDYIbI	4.0
HM11-G023	PGBDYIbI	4.0

PRELIMINARY TEST IIA, 2013

REGIONAL SUMMARY

No. of Tests Strain	Yield 10 bu/a	Rank 10 No.	Maturity 10 Date	Lodging 10 Score	Plant Height 10 In.	Seed Quality 10 Score	Seed Size 11 g/100	Composition Protein 5 %	 Oil 5 %
IA 2102 (II)	67.1	4	9/18	1.9	34	1.5	16.0	35.3	19.0
IA1022 (SCN)	61.2	23	-4.6	1.6	32	1.5	15.9	34.0	20.2
IA3024	65.9	6	6.1	1.4	34	1.6	17.0	34.8	19.3
AR12-228004	61.7	21	1.8	1.1	32	1.5	16.2	36.5	18.1
AR12-228016	62.2	18	-1.4	1.1	32	1.3	16.1	36.0	18.5
AR12-228031	61.0	25	-0.8	1.7	37	1.4	14.1	35.4	18.8
AR12-228047	68.0	3	-0.5	1.4	34	1.5	15.2	34.0	19.5
AR12-228063	57.5	30	-3.4	1.2	31	1.4	14.7	36.0	18.8
AR12-228097	62.9	16	-0.2	1.2	29	1.2	15.2	35.8	19.3
AR12-228114	60.5	27	-1.7	1.7	34	1.4	16.0	36.5	19.0
AR12-228117	63.0	14	-0.6	1.2	33	1.3	15.3	36.2	19.0
AR12-228127	61.9	20	-2.8	1.8	32	1.3	16.1	35.8	18.8
AR12-228136	63.1	13	-1.2	1.2	34	1.2	16.3	35.4	19.3
AR12-228141	64.5	9	-0.5	1.2	32	1.4	15.4	36.2	19.0
AR12-228146	64.9	7	-0.5	1.2	31	1.3	14.7	35.5	19.2
AR12-228149	61.5	22	0.2	1.3	33	1.3	15.2	36.1	19.0
E11095	58.7	28	-1.3	1.2	31	2.1	15.6	33.7	19.9
E11291LL	60.8	26	2.2	1.1	31	1.5	15.4	35.2	18.7
E11399	62.2	18	-1.7	1.3	35	1.5	17.2	34.8	19.3
E11401	63.4	11	-0.9	1.1	36	1.4	17.5	34.8	19.4
E11431	64.7	8	-0.9	1.4	35	1.4	17.5	34.6	19.5
LD10-5213a	68.9	1	1.8	1.2	32	1.4	16.3	34.6	19.6
LD10-5330a	68.1	2	0.3	1.3	32	1.4	16.1	33.7	19.8
LD10-5587a	67.0	5	4.0	1.2	32	1.4	16.9	34.7	19.7
LD10-30036	59.7	28	2.4	1.5	33	1.4	15.1	34.3	19.1
HM09-W053	62.9	16	3.4	1.8	37	1.3	15.5	36.4	18.5
HM10-W083	61.2	23	3.1	1.5	36	1.2	14.4	35.9	18.9
HM11-G016	63.0	14	4.8	1.9	38	1.7	16.2	35.1	19.1
HM11-G021	63.2	12	4.5	1.8	39	1.6	16.2	35.4	19.3
HM11-G023	64.0	10	5.8	1.9	41	1.4	16.9	35.4	19.1

133.0 Days After Planting

PRELIMINARY TEST IIA, 2013

YIELD (bu/a)

Strain	Mean 10 Tests	Boone IA	Urbana IL	Lafayette IN	Ingham County MI	Cotesfield NE	Mead NE
IA 2102 (II)	67.1	52.4	61.2	71.8	55.6	80.4	93.3
IA1022 (SCN)	61.2	47.4	60.3	65.4	53.2	63.2	94.3
IA3024	65.9	48.7	63.4	66.9	51.2	76.7	91.1
AR12-228004	61.7	48.1	59.0	65.1	65.0	65.7	82.6
AR12-228016	62.2	49.8	64.9	72.9	51.5	65.7	84.7
AR12-228031	61.0	47.8	65.2	61.1	57.9	63.8	81.4
AR12-228047	68.0	59.1	72.4	67.3	62.3	78.7	91.2
AR12-228063	57.5	46.9	59.1	55.6	54.9	65.0	71.5
AR12-228097	62.9	50.2	62.7	61.1	57.9	73.9	86.6
AR12-228114	60.5	48.5	59.3	63.8	51.5	77.4	77.8
AR12-228117	63.0	49.9	69.7	70.5	54.5	68.7	83.0
AR12-228127	61.9	51.7	63.1	71.2	52.2	76.3	71.6
AR12-228136	63.1	39.4	63.9	71.1	51.7	69.7	87.1
AR12-228141	64.5	48.0	63.6	64.1	57.5	71.7	90.4
AR12-228146	64.9	49.6	62.3	64.3	61.0	74.0	89.3
AR12-228149	61.5	45.4	62.6	69.4	52.4	66.8	81.5
E11095	58.7	43.1	63.3	63.3	54.1	58.7	81.0
E11291LL	60.8	37.0	64.0	64.1	50.0	70.3	87.9
E11399	62.2	44.5	65.1	57.8	52.0	72.5	89.8
E11401	63.4	44.0	60.5	64.7	58.6	69.9	93.9
E11431	64.7	45.4	65.1	63.3	59.7	63.0	87.2
LD10-5213a	68.9	53.0	70.4	69.6	57.1	75.2	91.4
LD10-5330a	68.1	58.3	65.9	69.7	58.9	72.1	95.1
LD10-5587a	67.0	53.3	65.1	68.0	55.3	69.5	85.9
LD10-30036	59.7	47.7	59.2	62.7	51.2	67.0	74.9
HM09-W053	62.9	41.8	60.6	66.8	60.3	74.0	70.0
HM10-W083	61.2	38.9	52.4	62.8	53.3	75.4	74.8
HM11-G016	63.0	37.7	66.7	68.6	58.9	72.2	72.8
HM11-G021	63.2	41.1	59.7	63.8	58.5	72.1	76.5
HM11-G023	64.0	42.4	64.6	67.2	56.0	70.0	78.1
Location Mean		47.0	63.2	65.8	55.8	70.6	83.9
C.V. (%)		10.7	6.0	5.1	11.3	7.8	6.6
L.S.D. (5%)		10.3	7.7	6.9	15.5	11.3	11.2
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 mean.

PRELIMINARY TEST IIA, 2013

YIELD (bu/a)

Strain	Phillips NE	Hoytville OH	Wooster* OH	Chatham ONT	Volga* SD	Beresford SD
IA 2102 (II)	90.1	37.8	81.9	56.9	37.8	71.8
IA1022 (SCN)	78.9	45.3	80.6	46.9	44.0	57.0
IA3024	80.8	61.3	84.9	51.5	35.0	67.5
AR12-228004	83.7	44.5	83.1	44.0	25.9	58.9
AR12-228016	72.9	42.6	67.1	45.3	34.2	71.3
AR12-228031	72.9	51.3	82.7	49.9	27.3	58.2
AR12-228047	76.5	54.6	82.4	53.6	34.5	64.8
AR12-228063	84.7	42.8	73.9	36.8	27.1	57.4
AR12-228097	75.9	48.2	73.3	49.2	33.7	63.0
AR12-228114	81.7	39.1	70.1	43.5	33.9	62.7
AR12-228117	83.7	50.8	74.0	42.4	33.6	57.1
AR12-228127	77.7	40.6	69.1	49.8	34.7	65.1
AR12-228136	79.7	52.2	75.6	54.2	36.4	62.1
AR12-228141	78.0	54.4	84.8	50.7	36.3	66.9
AR12-228146	88.1	45.7	85.5	47.0	37.2	67.5
AR12-228149	78.2	52.9	63.3	43.9	36.5	61.9
E11095	74.6	42.3	88.4	48.3	40.5	58.5
E11291LL	81.2	43.6	85.2	50.3	36.3	60.0
E11399	82.5	44.0	82.8	51.3	34.0	62.0
E11401	79.6	49.5	84.5	52.3	34.2	61.5
E11431	99.1	47.7	73.9	50.9	41.9	65.5
LD10-5213a	81.2	64.0	33.7	58.8	40.1	68.6
LD10-5330a	87.2	56.8	75.0	53.6	41.2	63.9
LD10-5587a	83.9	55.8	79.9	61.6	40.7	71.7
LD10-30036	78.6	47.9	84.7	55.7	46.3	52.4
HM09-W053	83.0	64.1	81.4	50.0	29.7	58.8
HM10-W083	97.0	52.2	69.7	47.2	31.0	58.3
HM11-G016	85.8	52.7	82.0	52.9	24.8	61.5
HM11-G021	91.1	54.7	89.7	54.0	27.4	60.6
HM11-G023	85.1	56.9	87.0	53.7	32.0	66.2
Location Mean	82.4	49.9	77.7	50.2	34.9	62.8
C.V. (%)	8.9	14.8	18.0	7.4	15.9	6.9
L.S.D. (5%)	15.0	15.1	28.5	6.3	11.4	8.9
Row Sp. (In.)	30	7.5	7.5	17	30	30
Rows/Plot	4	8	8	5	2	2
Reps	2	2	2	2	2	2

PRELIMINARY TEST IIA, 2013

YIELD RANK

Strain	Yield Rank	Boone IA	Urbana IL	Lafayette IN	Ingham County MI	Cotesfield NE	Mead NE
IA 2102 (II)	4	5	21	2	15	1	4
IA1022 (SCN)	23	17	24	15	21	28	2
IA3024	6	11	15	13	28	4	7
AR12-228004	21	13	29	16	1	24	18
AR12-228016	18	9	10	1	26	25	16
AR12-228031	25	15	6	27	10	27	20
AR12-228047	3	1	1	11	2	2	6
AR12-228063	30	18	28	30	17	26	29
AR12-228097	16	7	18	27	11	10	14
AR12-228114	27	12	26	21	27	3	23
AR12-228117	14	8	3	5	18	21	17
AR12-228127	20	6	17	3	23	5	28
AR12-228136	13	27	13	4	25	19	13
AR12-228141	9	14	14	19	12	15	8
AR12-228146	7	10	20	18	3	9	10
AR12-228149	22	20	19	8	22	23	19
E11095	28	23	16	23	19	30	21
E11291LL	26	30	12	19	30	16	11
E11399	18	21	7	29	24	11	9
E11401	11	22	23	17	8	18	3
E11431	8	19	8	23	5	29	12
LD10-5213a	1	4	2	7	13	7	5
LD10-5330a	2	2	5	6	6	14	1
LD10-5587a	5	3	8	10	16	20	15
LD10-30036	28	16	27	26	29	22	25
HM09-W053	16	25	22	14	4	8	30
HM10-W083	23	28	30	25	20	6	26
HM11-G016	14	29	4	9	7	12	27
HM11-G021	12	26	25	21	9	13	24
HM11-G023	10	24	11	12	14	17	22

PRELIMINARY TEST IIA, 2013

YIELD RANK

Strain	Phillips NE	Hoytville OH	Wooster OH	Chatham ONT	Volga SD	Beresford SD
IA 2102 (II)	4	29	15	3	8	1
IA1022 (SCN)	21	20	17	24	2	29
IA3024	18	3	6	12	14	6
AR12-228004	11	21	10	26	29	22
AR12-228016	30	25	27	25	18	3
AR12-228031	29	13	12	18	27	26
AR12-228047	26	8	13	9	16	11
AR12-228063	9	24	22	30	28	27
AR12-228097	27	16	23	20	21	13
AR12-228114	15	28	24	28	20	14
AR12-228117	12	14	21	29	22	28
AR12-228127	25	27	26	19	15	10
AR12-228136	19	12	19	5	11	15
AR12-228141	24	9	7	15	12	7
AR12-228146	5	19	4	23	9	5
AR12-228149	23	10	28	27	10	17
E11095	28	26	2	21	6	24
E11291LL	16	23	5	16	13	21
E11399	14	22	11	13	19	16
E11401	20	15	9	11	17	19
E11431	1	18	22	14	3	9
LD10-5213a	17	2	29	2	7	4
LD10-5330a	6	5	20	8	4	12
LD10-5587a	10	6	18	1	5	2
LD10-30036	22	17	8	4	1	30
HM09-W053	13	1	16	17	25	23
HM10-W083	2	12	25	22	24	25
HM11-G016	7	11	14	10	30	18
HM11-G021	3	7	1	6	26	20
HM11-G023	8	4	3	7	23	8

PRELIMINARY TEST IIA, 2013

MATURITY (date)

Strain	Mean 10 Tests	Boone IA	Urbana IL	Lafayette IN	Ingham County MI	Cotesfield NE	Mead NE
IA 2102 (II)	9/18	9/18	9/4	9/15			9/17
IA1022 (SCN)	-4.6	-4	-4	-3			-5
IA3024	6.1	9	5	8			5
AR12-228004	1.8	5	1	5			-1
AR12-228016	-1.4	2	1	-1			-2
AR12-228031	-0.8	1	1	0			-2
AR12-228047	-0.5	3	1	1			-2
AR12-228063	-3.4	-1	-1	-2			-4
AR12-228097	-0.2	3	0	2			-3
AR12-228114	-1.7	0	-1	-1			2
AR12-228117	-0.6	3	1	3			2
AR12-228127	-2.8	1	-3	-1			-3
AR12-228136	-1.2	0	0	1			-3
AR12-228141	-0.5	2	0	2			-3
AR12-228146	-0.5	5	-1	1			-4
AR12-228149	0.2	3	-1	2			-2
E11095	-1.3	-1	-1	-1			-6
E11291LL	2.2	7	1	4			2
E11399	-1.7	3	-1	0			-3
E11401	-0.9	3	-1	1			0
E11431	-0.9	3	-1	0			-4
LD10-5213a	1.8	4	1	4			1
LD10-5330a	0.3	4	0	2			-3
LD10-5587a	4.0	5	3	5			3
LD10-30036	2.4	4	4	5			4
HM09-W053	3.4	8	4	5			2
HM10-W083	3.1	8	2	5			5
HM11-G016	4.8	7	4	4			6
HM11-G021	4.5	8	5	4			7
HM11-G023	5.8	8	6	5			7
Date Planted	5/8	5/18	5/15	5/23	6/4	5/22	5/15
Days to Mature	133	123	112	115			125

PRELIMINARY TEST IIA, 2013

MATURITY (date)

Strain	Phillips NE	Hoytville OH	Wooster OH	Chatham ONT	Volga SD	Beresford SD
IA 2102 (II)	9/20	9/14	9/15	9/29	9/28	9/24
IA1022 (SCN)	-9	-3	-7	-5	-1	-5
IA3024	3	12	4	3	11	1
AR12-228004	-2	11	3	0	-1	-4
AR12-228016	-6	0	-1	0	-3	-4
AR12-228031	-2	1	0	2	-4	-6
AR12-228047	-6	5	-2	0	-5	0
AR12-228063	-8	-1	-4	-2	-6	-5
AR12-228097	-2	7	0	0	-3	-5
AR12-228114	-5	0	-5	0	-5	-1
AR12-228117	-6	0	-5	0	-4	0
AR12-228127	-4	-2	-6	-2	-5	-3
AR12-228136	-7	2	-2	0	-1	-3
AR12-228141	-6	3	5	0	-5	-3
AR12-228146	-3	3	-1	-1	-4	-1
AR12-228149	-3	6	3	0	-3	-4
E11095	-8	8	4	0	-4	-5
E11291LL	2	8	4	1	-2	-5
E11399	-3	-2	-7	1	-5	-1
E11401	-3	-3	-2	1	-4	-1
E11431	-5	-3	1	0	1	-1
LD10-5213a	-2	9	4	3	-4	-2
LD10-5330a	-6	8	2	1	-3	-2
LD10-5587a	0	13	6	6	-1	0
LD10-30036	-4	9	3	3	-1	-4
HM09-W053	-2	13	2	5	-2	-1
HM10-W083	1	9	1	1	-1	0
HM11-G016	3	13	9	5	-1	-2
HM11-G021	4	11	5	4	-3	0
HM11-G023	5	13	9	5	1	0
Date Planted	5/17	5/17	5/17	6/5	5/9	5/6
Days to Mature	126	120	121	116	142	141

PRELIMINARY TEST IIA, 2013

LODGING (score)

Strain	Mean 10 Tests	Boone IA	Urbana IL	Lafayette IN	Ingham County MI	Cotesfield NE	Mead NE
IA 2102 (II)	1.9	2.3	3.3	1.5	1.5		
IA1022 (SCN)	1.6	1.8	2.3	1.5	1.5		
IA3024	1.4	1.8	2.5	1.0	1.5		
AR12-228004	1.1	1.5	1.0	1.0	1.0		
AR12-228016	1.1	1.8	1.3	1.0	1.0		
AR12-228031	1.7	1.8	2.5	1.3	2.0		
AR12-228047	1.4	2.0	2.3	1.3	1.0		
AR12-228063	1.2	1.8	1.5	1.0	1.0		
AR12-228097	1.2	1.8	1.5	1.0	1.0		
AR12-228114	1.7	2.0	2.3	1.5	2.0		
AR12-228117	1.2	2.0	1.5	1.0	1.0		
AR12-228127	1.8	1.8	3.0	1.3	1.0		
AR12-228136	1.2	1.8	1.5	1.0	1.0		
AR12-228141	1.2	1.5	1.5	1.0	1.0		
AR12-228146	1.2	1.5	1.3	1.0	1.5		
AR12-228149	1.3	1.8	2.0	1.0	1.0		
E11095	1.2	1.5	1.0	1.0	1.0		
E11291LL	1.1	1.5	1.0	1.0	1.0		
E11399	1.3	1.5	1.5	1.0	1.0		
E11401	1.1	1.5	1.0	1.0	1.0		
E11431	1.4	1.8	1.3	1.0	1.5		
LD10-5213a	1.2	1.5	1.5	1.0	1.0		
LD10-5330a	1.3	2.0	1.3	1.3	1.5		
LD10-5587a	1.2	1.5	1.3	1.0	1.0		
LD10-30036	1.5	1.5	1.8	1.0	1.0		
HM09-W053	1.8	1.8	3.0	1.3	1.5		
HM10-W083	1.5	1.8	2.8	1.5	1.0		
HM11-G016	1.9	2.0	2.8	1.8	2.0		
HM11-G021	1.8	2.0	3.0	1.5	2.0		
HM11-G023	1.9	1.8	2.8	2.0	1.5		

PRELIMINARY TEST IIA, 2013

LODGING (score)

Strain	Phillips NE	Hoytville OH	Wooster OH	Chatham ONT	Volga SD	Beresford SD
IA 2102 (II)	4.0	1.0	1.0	1.5	2.0	1.0
IA1022 (SCN)	2.0	1.0	1.5	1.0	2.0	1.0
IA3024	2.0	1.0	1.0	1.0	1.0	1.0
AR12-228004	1.0	1.0	1.0	1.0	1.0	1.0
AR12-228016	1.0	1.0	1.0	1.0	1.0	1.0
AR12-228031	3.0	1.0	1.5	2.0	1.0	1.0
AR12-228047	2.0	1.0	1.0	1.0	1.0	1.0
AR12-228063	2.0	1.0	1.0	1.0	1.0	1.0
AR12-228097	1.0	1.0	1.0	1.0	2.0	1.0
AR12-228114	2.0	1.0	1.5	1.5	2.0	1.0
AR12-228117	1.0	1.0	1.0	1.0	1.0	1.0
AR12-228127	3.0	1.0	2.0	1.5	2.0	1.0
AR12-228136	2.0	1.0	1.0	1.0	1.0	1.0
AR12-228141	2.0	1.0	1.0	1.0	1.0	1.0
AR12-228146	1.0	1.0	1.0	1.5	1.0	1.0
AR12-228149	2.0	1.0	1.0	1.0	1.0	1.0
E11095	1.0	1.0	2.0	1.0	1.0	1.0
E11291LL	1.0	1.0	1.0	1.0	1.0	1.0
E11399	2.0	1.0	1.0	1.0	1.5	1.0
E11401	1.0	1.0	1.0	1.0	1.5	1.0
E11431	1.5	1.0	2.0	1.0	1.5	1.0
LD10-5213a	1.0	1.0	1.0	1.0	1.5	1.0
LD10-5330a	1.0	1.0	1.0	1.5	1.5	1.0
LD10-5587a	1.0	1.0	1.0	2.0	1.0	1.0
LD10-30036	2.0	1.0	1.5	1.5	2.5	1.0
HM09-W053	3.0	1.0	1.0	2.0	2.0	1.0
HM10-W083	2.0	1.0	1.5	1.5	1.0	1.0
HM11-G016	3.0	1.0	2.0	2.0	1.5	1.0
HM11-G021	3.0	1.0	2.0	1.0	1.0	1.0
HM11-G023	3.0	1.0	2.5	2.0	1.5	1.0

PRELIMINARY TEST IIA, 2013

PLANT HEIGHT (inches)

Strain	Mean 10 Tests	Boone IA	Urbana IL	Lafayette IN	Ingham County MI	Cotesfield NE	Mead NE
IA 2102 (II)	34	26	36	35	30		42
IA1022 (SCN)	32	26	35	32	26		37
IA3024	34	29	37	37	25		40
AR12-228004	32	24	34	32	29		37
AR12-228016	32	25	37	35	27		
AR12-228031	37	27	42	36	31		43
AR12-228047	34	28	36	37	31		41
AR12-228063	31	26	35	33	28		42
AR12-228097	29	24	32	29	28		34
AR12-228114	34	27	38	35	33		43
AR12-228117	33	26	35	35	30		39
AR12-228127	32	27	33	35	25		35
AR12-228136	34	26	37	39	28		41
AR12-228141	32	25	36	34	30		37
AR12-228146	31	25	32	33	31		34
AR12-228149	33	25	38	35	25		38
E11095	31	24	34	35	28		34
E11291LL	31	23	35	32	25		38
E11399	35	26	37	36	32		40
E11401	36	27	36	37	36		40
E11431	35	24	38	35	36		41
LD10-5213a	32	25	34	35	27		37
LD10-5330a	32	28	33	35	30		37
LD10-5587a	32	24	35	35	28		35
LD10-30036	33	25	33	35	25		37
HM09-W053	37	28	38	39	32		43
HM10-W083	36	29	37	38	33		39
HM11-G016	38	29	41	42	35		47
HM11-G021	39	27	42	42	38		46
HM11-G023	41	30	46	44	36		48

PRELIMINARY TEST IIA, 2013

PLANT HEIGHT (inches)

Strain	Phillips NE	Hoytville OH	Wooster OH	Chatham ONT	Volga SD	Beresford SD
IA 2102 (II)		28	35	35	40	32
IA1022 (SCN)		22	33	34	42	29
IA3024		30	35	36	40	31
AR12-228004		23	34	36	44	30
AR12-228016		27	31	36	43	30
AR12-228031		33	40	38	42	36
AR12-228047		29	33	34	38	30
AR12-228063		23	34	30	32	32
AR12-228097		25	28	35	32	27
AR12-228114		26	34	34	36	34
AR12-228117		27	33	35	37	33
AR12-228127		29	34	34	35	31
AR12-228136		28	34	33	44	33
AR12-228141		26	34	34	36	28
AR12-228146		23	34	34	39	28
AR12-228149		30	30	32	42	31
E11095		25	39	33	31	32
E11291LL		23	33	35	38	28
E11399		27	36	36	47	34
E11401		29	36	37	48	32
E11431		26	36	36	45	34
LD10-5213a		28	27	37	39	30
LD10-5330a		25	32	35	36	32
LD10-5587a		27	33	36	37	32
LD10-30036		27	35	35	47	34
HM09-W053		32	38	40	45	34
HM10-W083		31	35	36	40	39
HM11-G016		29	37	40	47	37
HM11-G021		34	38	39	47	38
HM11-G023		34	42	39	53	42

PRELIMINARY TEST IIA, 2013

SEED QUALITY (score)

Strain	Mean 10 Tests	Boone IA	Urbana IL	Lafayette IN	Ingham County MI	Cotesfield NE	Mead NE
IA 2102 (II)	1.5	2.0	2.0	1.0			2.0
IA1022 (SCN)	1.5	2.0	2.0	1.0			2.0
IA3024	1.6	2.0	2.0	1.5			2.0
AR12-228004	1.5	2.0	2.0	1.0			2.0
AR12-228016	1.3	2.0	1.0	1.0			1.0
AR12-228031	1.4	2.0	2.0	1.5			2.0
AR12-228047	1.5	2.0	2.0	1.0			2.0
AR12-228063	1.4	2.0	2.0	1.5			1.0
AR12-228097	1.2	2.0	1.0	1.0			1.0
AR12-228114	1.4	2.0	2.0	1.0			1.0
AR12-228117	1.3	2.0	1.0	1.0			2.0
AR12-228127	1.3	2.0	1.0	1.0			2.0
AR12-228136	1.2	2.0	1.0	1.0			2.0
AR12-228141	1.4	2.0	2.0	1.0			2.0
AR12-228146	1.3	2.0	1.0	1.0			2.0
AR12-228149	1.3	2.0	1.0	1.0			2.0
E11095	2.1	2.0	3.0	1.5			3.0
E11291LL	1.5	2.0	2.0	1.0			2.0
E11399	1.5	2.0	2.0	1.0			2.0
E11401	1.4	2.0	2.0	1.0			2.0
E11431	1.4	2.0	2.0	1.0			2.0
LD10-5213a	1.4	2.0	2.0	1.0			2.0
LD10-5330a	1.4	2.0	2.0	1.0			2.0
LD10-5587a	1.4	1.0	1.0	1.5			2.0
LD10-30036	1.4	2.0	2.0	1.0			2.0
HM09-W053	1.3	2.0	2.0	1.0			1.0
HM10-W083	1.2	2.0	1.0	1.0			1.0
HM11-G016	1.7	2.0	2.0	1.0			3.0
HM11-G021	1.6	1.0	2.0	1.0			3.0
HM11-G023	1.4	1.0	2.0	1.0			3.0

PRELIMINARY TEST IIA, 2013

SEED QUALITY (score)

Strain	Phillips NE	Hoytville OH	Wooster OH	Chatham ONT	Volga SD	Beresford SD
IA 2102 (II)	2.0	1.0	1.0	1.0	1.0	2.0
IA1022 (SCN)	2.0	1.0	1.0	1.5	1.0	1.0
IA3024	3.0	1.0	1.0	1.0	1.0	1.0
AR12-228004	2.0	1.0	1.0	1.5	1.0	1.0
AR12-228016	2.0	1.0	1.0	1.0	1.0	1.5
AR12-228031	1.0	1.0	1.0	1.5	1.0	1.0
AR12-228047	2.0	1.0	1.0	1.0	1.0	1.5
AR12-228063	2.0	1.0	1.0	1.0	1.0	1.0
AR12-228097	2.0	1.0	1.0	1.0	1.0	1.0
AR12-228114	2.0	1.0	1.0	1.5	1.0	1.0
AR12-228117	2.0	1.0	1.0	1.0	1.0	1.0
AR12-228127	2.0	1.0	1.0	1.0	1.0	1.0
AR12-228136	1.0	1.0	1.0	1.0	1.0	1.0
AR12-228141	2.0	1.0	1.0	1.0	1.0	1.0
AR12-228146	2.0	1.0	1.0	1.0	1.0	1.0
AR12-228149	1.0	1.0	1.0	1.0	1.0	1.5
E11095	3.0	2.0	1.0	1.0	2.0	2.0
E11291LL	2.0	1.0	1.0	1.5	1.0	1.0
E11399	3.0	1.0	1.0	1.0	1.0	1.0
E11401	2.0	1.0	1.0	1.0	1.0	1.0
E11431	2.0	1.0	1.0	1.0	1.0	1.0
LD10-5213a	2.0	1.0	1.0	1.0	1.0	1.0
LD10-5330a	2.0	1.0	1.0	1.0	1.0	1.0
LD10-5587a	3.0	1.0	1.0	1.5	1.0	1.0
LD10-30036	2.0	1.0	1.0	1.0	1.0	1.0
HM09-W053	2.0	1.0	1.0	1.0	1.0	1.0
HM10-W083	2.0	1.0	1.0	1.0	1.0	1.0
HM11-G016	3.0	2.0	1.0	1.0	1.0	1.0
HM11-G021	3.0	2.0	1.0	1.0	1.0	1.0
HM11-G023	2.0	1.0	1.0	1.0	1.0	1.0

PRELIMINARY TEST IIA, 2013

SEED SIZE (g/100)

Strain	Mean 11 Tests	Boone IA	Urbana IL	Lafayette IN	Ingham County MI	Cotesfield NE	Mead NE
IA 2102 (II)	16.0	14.6	17.0	15.1	19.4		16.8
IA1022 (SCN)	15.9	13.9	15.9	15.8	19.5		17.3
IA3024	17.0	15.3	16.0	17.0	20.8		17.6
AR12-228004	16.2	15.3	16.0	16.2	21.9		16.5
AR12-228016	16.1	14.4	16.1	14.8	21.7		17.4
AR12-228031	14.1	12.7	14.5	14.8	17.5		13.9
AR12-228047	15.2	14.3	15.3	13.9	18.7		16.2
AR12-228063	14.7	12.7	14.8	14.0	18.6		15.1
AR12-228097	15.2	13.7	14.4	14.3	20.0		14.9
AR12-228114	16.0	14.9	16.4	15.9	20.2		15.3
AR12-228117	15.3	13.6	15.5	14.7	20.5		14.2
AR12-228127	16.1	14.7	15.6	14.5	22.2		15.9
AR12-228136	16.3	12.6	16.3	16.2	21.4		18.1
AR12-228141	15.4	13.7	14.1	14.4	20.4		16.9
AR12-228146	14.7	12.7	13.7	14.9	19.9		15.0
AR12-228149	15.2	12.8	14.6	15.2	20.3		15.0
E11095	15.6	12.8	15.8	14.4	19.3		16.3
E11291LL	15.4	13.4	14.7	14.6	19.0		16.3
E11399	17.2	16.3	17.3	16.6	20.1		18.2
E11401	17.5	15.1	18.0	17.1	21.9		18.1
E11431	17.5	16.7	17.8	16.5	22.3		16.7
LD10-5213a	16.3	15.3	16.7	15.3	20.8		17.8
LD10-5330a	16.1	14.5	16.2	15.1	20.5		16.7
LD10-5587a	16.9	15.0	15.9	15.8	22.1		16.0
LD10-30036	15.1	13.1	14.3	13.6	20.0		15.3
HM09-W053	15.5	13.0	14.4	15.5	22.5		13.6
HM10-W083	14.4	11.0	12.6	14.0	19.9		16.5
HM11-G016	16.2	12.4	15.3	14.4	22.9		17.1
HM11-G021	16.2	12.7	14.6	13.7	22.6		18.0
HM11-G023	16.9	14.2	15.6	16.0	23.6		16.9

PRELIMINARY TEST IIA, 2013

SEED SIZE (g/100)

Strain	Phillips NE	Hoytville OH	Wooster OH	Chatham ONT	Volga SD	Beresford SD
IA 2102 (II)	16.8	13.8	16.8	16.6	13.3	15.7
IA1022 (SCN)	16.7	13.2	16.7	15.4	13.4	17.4
IA3024	18.6	15.2	17.5	18.4	12.9	17.3
AR12-228004	17.3	15.0	17.7	15.6	11.7	15.6
AR12-228016	17.6	13.6	15.8	16.9	12.4	17.0
AR12-228031	14.4	12.2	15.6	15.7	10.8	13.1
AR12-228047	16.8	13.2	16.7	15.5	10.7	16.1
AR12-228063	16.0	12.3	15.5	15.3	11.1	16.3
AR12-228097	16.0	13.6	16.1	16.7	12.4	14.9
AR12-228114	17.1	14.5	16.8	15.4	12.7	16.8
AR12-228117	16.1	14.0	16.5	14.6	12.3	16.2
AR12-228127	17.8	14.4	16.8	16.4	13.2	16.0
AR12-228136	18.0	14.0	15.7	17.7	13.2	15.8
AR12-228141	16.5	13.7	16.8	14.4	12.7	16.3
AR12-228146	15.9	13.2	16.0	14.7	11.4	14.3
AR12-228149	16.2	13.0	16.2	15.9	11.4	16.4
E11095	17.0	13.0	17.4	16.7	13.0	15.7
E11291LL	17.3	14.0	16.3	15.4	12.3	16.3
E11399	18.5	14.1	18.3	17.5	14.8	17.1
E11401	18.1	15.2	15.9	19.4	15.5	18.6
E11431	17.5	14.8	16.9	18.4	16.0	18.5
LD10-5213a	17.5	13.8	17.1	15.9	12.3	17.2
LD10-5330a	17.7	13.5	16.6	16.6	13.6	16.3
LD10-5587a	17.7	14.2	17.5	19.3	14.5	17.5
LD10-30036	14.7	14.1	16.3	16.7	14.3	14.0
HM09-W053	15.8	14.6	16.8	18.1	12.3	14.2
HM10-W083	17.9	12.5	14.2	14.7	11.9	13.6
HM11-G016	18.9	14.1	17.2	17.7	12.6	15.4
HM11-G021	20.3	13.9	17.0	18.1	12.3	15.6
HM11-G023	18.7	15.2	18.3	17.3	13.5	17.1

PRELIMINARY TEST IIA, 2013

PROTEIN (%)

Strain	Mean 5 Tests	Urbana IL	Mead NE	Phillips NE	Chatham* ONT	Volga SD
IA 2102 (II)	35.3	35.2	35.7	36.0	32.6	37.3
IA1022 (SCN)	34.0	33.3	34.7	34.5	31.0	36.6
IA3024	34.8	33.8	35.4	35.3	33.1	36.3
AR12-228004	36.5	35.7	36.3	35.6	36.0	38.9
AR12-228016	36.0	35.0	36.4	36.1	34.2	38.4
AR12-228031	35.4	35.0	35.8	36.1	33.9	36.3
AR12-228047	34.0	33.3	34.4	34.4	30.9	37.0
AR12-228063	36.0	35.4	36.5	36.1	32.8	39.4
AR12-228097	35.8	35.6	36.0	36.5	33.1	37.9
AR12-228114	36.5	35.1	36.0	36.7	36.0	38.5
AR12-228117	36.2	35.2	36.3	35.9	34.2	39.5
AR12-228127	35.8	34.8	35.8	36.0	33.9	38.5
AR12-228136	35.4	35.5	36.6	36.3	30.9	37.6
AR12-228141	36.2	35.7	36.1	36.2	35.8	37.2
AR12-228146	35.5	34.8	35.3	35.7	33.5	38.3
AR12-228149	36.1	35.8	36.3	36.5	33.9	37.9
E11095	33.7	33.4	33.5	34.1	31.3	36.2
E11291LL	35.2	34.5	35.7	35.7	33.8	36.1
E11399	34.8	34.3	34.4	35.2	33.3	36.5
E11401	34.8	33.7	34.6	35.6	33.1	36.8
E11431	34.6	33.9	34.7	35.4	32.9	36.2
LD10-5213a	34.6	33.9	35.4	34.9	33.1	36.0
LD10-5330a	33.7	32.5	34.1	33.8	33.0	35.1
LD10-5587a	34.7	34.2	35.1	35.3	33.6	35.3
LD10-30036	34.3	33.3	35.3	34.9	33.5	34.6
HM09-W053	36.4	36.1	35.3	36.1	36.1	38.4
HM10-W083	35.9	35.1	37.3	37.1	34.3	35.8
HM11-G016	35.1	33.9	34.7	35.9	33.6	37.6
HM11-G021	35.4	34.3	36.0	36.4	33.9	36.3
HM11-G023	35.4	34.3	35.1	35.5	34.0	37.9

* Protein and Oil values converted to 13% moisture basis.

PRELIMINARY TEST IIA, 2013

OIL (%)

Strain	Mean 5 Tests	Urbana IL	Mead NE	Phillips NE	Chatham* ONT	Volga SD
IA 2102 (II)	19.0	19.4	19.0	18.6	19.7	18.1
IA1022 (SCN)	20.2	20.5	20.0	20.0	21.7	18.9
IA3024	19.3	19.9	19.5	19.3	19.6	18.1
AR12-228004	18.1	18.7	18.8	19.2	17.8	15.9
AR12-228016	18.5	19.1	18.8	18.9	19.1	16.7
AR12-228031	18.8	19.5	18.7	18.7	19.1	18.1
AR12-228047	19.5	20.1	19.5	19.7	20.8	17.3
AR12-228063	18.8	19.2	18.6	19.0	20.8	16.6
AR12-228097	19.3	19.5	19.5	19.3	19.9	18.2
AR12-228114	19.0	19.8	19.1	19.0	19.5	17.6
AR12-228117	19.0	19.6	18.9	19.4	19.7	17.3
AR12-228127	18.8	19.5	19.0	18.9	19.1	17.3
AR12-228136	19.3	19.2	19.1	19.1	20.8	18.1
AR12-228141	19.0	19.3	19.3	19.4	18.6	18.2
AR12-228146	19.2	19.6	19.6	19.3	20.1	17.2
AR12-228149	19.0	19.5	19.5	19.2	19.7	17.4
E11095	19.9	19.9	20.5	20.1	20.4	18.8
E11291LL	18.7	18.9	18.7	18.8	18.7	18.3
E11399	19.3	19.6	19.6	19.1	19.6	18.5
E11401	19.4	19.9	19.6	19.2	19.7	18.6
E11431	19.5	19.8	19.6	19.3	19.8	18.8
LD10-5213a	19.6	20.1	19.7	19.8	20.0	18.4
LD10-5330a	19.8	20.1	19.8	19.9	19.8	19.1
LD10-5587a	19.7	20.5	19.9	19.7	19.6	19.1
LD10-30036	19.1	19.7	19.0	19.2	19.2	18.6
HM09-W053	18.5	19.1	19.4	19.1	17.8	17.4
HM10-W083	18.9	19.1	19.0	18.7	19.0	18.6
HM11-G016	19.1	19.9	19.7	19.1	18.9	17.8
HM11-G021	19.3	19.9	19.6	19.0	19.5	18.6
HM11-G023	19.1	19.8	19.9	19.3	19.3	17.5

Preliminary Test IIB, 2013

Ent.	Strain	Parentage	Seed Source	Gen. Comp.	Unique Traits
1	IA 2102 (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.	M08-1608-1026	R01-52F x MN0094SP	Orf	F5	dt
5.	M08-1609002	R02-6268F x MN0107	Orf	F5	NFx dt
6.	MLG03-4069017	A99-217006 x LG98-1445	Orf	F5	PI
7.	SD10-7225	SD02-911 x SD00-1501	Jiang	F5	
8.	SD10-7247	SD02-911 x SD00-1501	Jiang	F5	Oil
9.	SD10-7346	SD02-911 x SD00-1501	Jiang	F5	Oil
10.	SD10CV-2005	SD03-234 x LD05-16094	Jiang	F5	
11.	SD10CV-2013	SD03-234 x LD05-16094	Jiang	F5	
12.	U11-610109	LD02-4485 x U03-100612	Graef	F6	SCN
13.	U11-610122	LD02-4485 x U03-100612	Graef	F6	SCN
14.	U11-611112	LD02-4485 x U03-100612	Graef	F6	SCN
15.	U11-614119	U02-242055 x LD04-13265	Graef	F6	SCN,Rps1k
16.	U11-615155	U03-100612 x LD04-11056	Graef	F6	SCN
17.	U11-616107	U02-242055 x LD02- 4485	Graef	F6	SCN,Rps1k
18.	U11-619102	U03-300134 x LD00-3309	Graef	F6	SCN,Rps1k
19.	U11-619104	U03-300134 x LD00-3309	Graef	F6	SCN,Rps1k
20.	U11-620101	U03-300134 x LD00-3309	Graef	F6	SCN,Rps1k
21.	U11-622089	U03-300134 x LD02-7222P	Graef	F6	SCN,Rps1k
22.	U11-910094	LD02-4485 x U03-300134	Graef	F6	SCN,Rps1k
23.	U11-919011	LD02-4485 x U03-300134	Graef	F6	SCN,Rps1k
24.	U11-920016	HS5-3417 x LD02- 4485	Graef	F6	SCN,Rps1k
25.	U11-920017	HS5-3417 x LD02- 4485	Graef	F6	SCN,Rps1k

PRELIMINARY TEST IIB, 2013

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	Shattering Score Manhattan KS
IA 2102 (II)	WGTDYYI	1.0
IA1022 (SCN)	PGTSYYI	3.0
IA3024	PGTIYIbI	3.0
M08-1608-1026	P+WTTDYBrI	2.0
M08-1609002	PGTDYIbI	4.0
MLG03-4069017	PTBDYBlI	3.0
SD10-7225	PTBDYBlI	2.0
SD10-7247	PTBDYBlI	2.0
SD10-7346	PTBDYBlI	2.0
SD10CV-2005	WTTDYBrI	3.0
SD10CV-2013	WTTDYBrI	2.0
U11-610109	PLtBDYLbrI	2.0
U11-610122	PGBDYBfI	2.0
U11-611112	PLtBDYBrI	3.0
U11-614119	WTBDYBlI	2.0
U11-615155	PTBDYBlI	2.0
U11-616107	P+WT+GBDYBl+YI	3.0
U11-619102	P+WLtBDYBlI	4.0
U11-619104	PLtBDYBlI	4.0
U11-620101	PGBDYBfD	2.0
U11-622089	PLtBDYBlI	3.0
U11-910094	PGBDYIbI	3.0
U11-919011	PLtBDYBlI	4.0
U11-920016	WGBDYBfI	2.0
U11-920017	PLtBDYBrI	1.0

PRELIMINARY TEST IIB, 2013

REGIONAL SUMMARY

					Plant	Seed	Seed	Composition	
	Yield	Rank	Maturity	Lodging	Height	Quality	Size	Protein	Oil
No. of Tests	12	12	10	10	10	10	11	5	5
Strain	bu/a	No.	Date	Score	In.	Score	g/100	%	%
IA 2102 (II)	66.6	7	9/19	1.9	34	1.4	15.8	35.9	18.5
IA1022 (SCN)	64.0	15	-4.3	1.6	33	1.5	15.8	34.7	20.1
IA3024	65.7	8	7.0	1.4	35	1.5	16.4	34.8	19.3
M08-1608-1026	56.7	24	2.8	1.4	32	1.5	19.3	36.9	18.6
M08-1609002	57.8	23	-2.7	2.0	39	1.6	16.0	35.5	19.0
MLG03-4069017	64.7	13	-3.1	1.6	36	1.4	17.5	36.8	18.9
SD10-7225	63.9	16	-1.4	1.3	32	1.5	16.2	35.9	20.2
SD10-7247	61.2	20	-2.5	1.5	32	1.5	15.9	35.6	20.3
SD10-7346	61.9	19	-2.2	1.3	31	1.4	15.2	35.6	20.2
SD10CV-2005	58.5	22	-2.6	2.5	39	1.3	18.3	36.7	19.6
SD10CV-2013	53.5	25	-4.2	2.3	37	1.5	18.8	37.5	19.5
U11-610109	67.3	4	-0.5	1.4	35	1.2	16.2	35.4	19.5
U11-610122	64.5	14	-0.6	1.4	33	1.2	14.4	33.5	19.0
U11-611112	65.7	8	0.1	1.8	38	1.3	14.0	34.1	19.7
U11-614119	71.9	1	4.2	1.3	34	1.3	16.6	35.2	19.1
U11-615155	60.6	21	0.9	1.3	35	1.5	15.6	35.3	19.4
U11-616107	65.4	11	2.2	1.6	36	1.4	15.6	35.4	19.4
U11-619102	67.0	5	2.1	1.3	33	1.4	15.1	34.9	18.7
U11-619104	66.9	6	1.8	1.2	33	1.4	14.6	35.2	18.5
U11-620101	63.7	17	2.9	1.3	34	1.4	14.4	34.4	18.5
U11-622089	65.7	8	0.4	1.4	33	1.3	13.6	34.9	18.9
U11-910094	64.9	12	-0.4	1.4	35	1.3	15.5	35.0	18.7
U11-919011	69.5	3	-2.1	1.7	37	1.6	15.7	35.1	19.0
U11-920016	63.5	18	1.8	1.2	34	1.4	14.0	35.5	18.5
U11-920017	69.9	2	1.2	1.3	33	1.4	17.6	34.1	19.6

122.9 Days After Planting

PRELIMINARY TEST IIB, 2013

YIELD (bu/a)

Strain	Mean 12 Tests	Boone IA	Urbana IL	Lafayette IN	Ingham County MI	Cotesfield NE	Mead NE
IA 2102 (II)	66.6	62.3	58.9	67.2	68.0	83.8	92.0
IA1022 (SCN)	64.0	58.5	65.7	61.3	56.1	63.6	90.3
IA3024	65.7	50.2	58.4	69.7	63.1	66.1	94.3
M08-1608-1026	56.7	38.6	58.8	57.7	55.3	58.5	75.9
M08-1609002	57.8	42.3	57.2	61.0	56.4	60.3	77.1
MLG03-4069017	64.7	49.9	64.6	68.6	63.8	63.2	81.4
SD10-7225	63.9	38.8	60.3	62.9	63.6	64.7	93.1
SD10-7247	61.2	38.9	62.4	67.6	68.9	59.4	85.6
SD10-7346	61.9	40.7	62.6	65.3	62.2	66.5	83.2
SD10CV-2005	58.5	43.6	60.0	59.9	54.9	59.6	68.4
SD10CV-2013	53.5	40.7	54.3	53.0	58.2	56.1	74.6
U11-610109	67.3	53.3	79.2	70.1	70.3	71.3	77.0
U11-610122	64.5	53.1	70.6	64.6	62.4	72.8	86.4
U11-611112	65.7	58.1	65.5	70.5	64.3	79.4	87.7
U11-614119	71.9	64.9	73.2	79.8	63.8	69.0	91.9
U11-615155	60.6	49.5	53.0	66.6	65.8	67.4	81.6
U11-616107	65.4	55.1	68.5	70.6	60.7	73.1	84.5
U11-619102	67.0	44.4	63.4	69.4	79.1	74.1	88.8
U11-619104	66.9	48.1	56.4	66.3	77.8	76.3	89.7
U11-620101	63.7	44.5	62.9	67.1	65.0	75.9	94.9
U11-622089	65.7	68.1	68.1	63.8	60.9	71.7	87.8
U11-910094	64.9	48.2	57.4	66.8	62.9	78.2	91.2
U11-919011	69.5	56.5	70.0	68.8	66.3	73.1	98.3
U11-920016	63.5	52.3	64.7	59.3	59.9	58.9	89.3
U11-920017	69.9	51.0	72.5	66.1	72.3	75.4	92.7
Location Mean		50.1	63.5	65.8	64.1	68.7	86.3
C.V. (%)		7.3	7.9	6.5	7.0	7.0	7.0
L.S.D. (5%)		7.6	10.4	8.8	11.2	9.9	12.5
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 mean.

PRELIMINARY TEST IIB, 2013

YIELD (bu/a)

Strain	Phillips NE	Hoytville OH	Wooster OH	Chatham ONT	Volga SD	Beresford SD
IA 2102 (II)	80.5	46.0	78.6	50.5	36.1	74.8
IA1022 (SCN)	87.0	49.6	73.6	47.7	45.8	68.9
IA3024	88.6	61.1	82.0	54.6	30.7	70.0
M08-1608-1026	76.3	46.9	75.2	43.8	38.8	54.1
M08-1609002	74.5	44.2	73.1	51.2	38.2	58.2
MLG03-4069017	88.8	59.5	82.6	51.7	34.8	67.2
SD10-7225	79.2	59.3	87.2	58.6	34.8	64.2
SD10-7247	73.7	50.2	80.5	52.0	34.8	59.8
SD10-7346	76.6	54.5	85.5	49.1	33.8	63.0
SD10CV-2005	79.0	47.1	82.4	51.9	37.8	56.9
SD10CV-2013	61.8	42.8	68.8	46.6	34.5	51.1
U11-610109	85.9	58.8	89.5	50.4	31.7	70.7
U11-610122	85.3	50.0	86.2	45.5	30.3	67.0
U11-611112	88.6	56.2	81.0	51.0	24.1	62.1
U11-614119	99.4	62.6	93.9	56.3	36.1	71.4
U11-615155	87.1	36.9	82.5	51.6	26.5	58.2
U11-616107	88.5	57.6	76.4	51.8	36.4	61.2
U11-619102	101.9	45.8	87.8	53.1	32.8	63.2
U11-619104	91.9	52.7	86.1	61.0	32.1	64.9
U11-620101	87.8	54.1	81.6	46.9	23.0	60.6
U11-622089	89.0	55.9	81.3	48.8	26.5	65.9
U11-910094	89.6	55.1	81.4	53.0	33.1	61.7
U11-919011	89.3	61.1	87.2	58.9	36.7	68.3
U11-920016	81.9	58.3	86.0	49.7	27.3	75.0
U11-920017	86.6	63.1	92.7	58.1	37.6	70.7
Location Mean	84.8	53.2	82.5	51.8	33.4	64.4
C.V. (%)	6.1	10.0	6.6	7.3	10.0	6.4
L.S.D. (5%)	11.0	11.0	11.3	6.5	6.9	8.6
Row Sp. (In.)	30	7.5	7.5	17	30	30
Rows/Plot	4	8	8	5	2	2
Reps	2	2	2	2	2	2

PRELIMINARY TEST IIB, 2013

YIELD RANK

Strain	Yield Rank	Boone IA	Urbana IL	Lafayette IN	Ingham County MI	Cotesfield NE	Mead NE
IA 2102 (II)	7	4	18	10	6	1	6
IA1022 (SCN)	15	5	8	20	23	18	9
IA3024	8	13	20	5	14	16	3
M08-1608-1026	24	26	19	24	24	24	23
M08-1609002	23	21	22	21	22	20	21
MLG03-4069017	13	14	11	8	11	19	20
SD10-7225	16	25	16	19	13	17	4
SD10-7247	20	24	15	9	5	22	16
SD10-7346	19	22	14	16	17	15	18
SD10CV-2005	22	20	17	22	25	21	25
SD10CV-2013	25	23	24	25	21	25	24
U11-610109	4	9	1	4	4	12	22
U11-610122	14	10	4	17	16	10	15
U11-611112	8	6	9	3	10	2	14
U11-614119	1	3	2	1	12	13	7
U11-615155	21	15	25	13	8	14	19
U11-616107	11	8	6	2	19	8	17
U11-619102	5	19	12	6	1	7	12
U11-619104	6	17	23	14	2	4	10
U11-620101	17	18	13	11	9	5	2
U11-622089	8	1	7	18	18	11	13
U11-910094	12	16	21	12	15	3	8
U11-919011	3	7	5	7	7	9	1
U11-920016	18	11	10	23	20	23	11
U11-920017	2	12	3	15	3	6	5

PRELIMINARY TEST IIB, 2013

YIELD RANK

Strain	Phillips NE	Hoytville OH	Wooster OH	Chatham ONT	Volga SD	Beresford SD
IA 2102 (II)	18	20	19	16	9	2
IA1022 (SCN)	13	17	22	21	1	7
IA3024	8	3	13	6	19	6
M08-1608-1026	22	19	21	25	2	24
M08-1609002	23	22	23	14	3	22
MLG03-4069017	7	4	10	12	10	9
SD10-7225	19	5	5	3	12	13
SD10-7247	24	15	18	9	11	20
SD10-7346	21	12	9	19	14	15
SD10CV-2005	20	18	12	10	4	23
SD10CV-2013	25	23	24	23	13	25
U11-610109	15	6	3	17	18	4
U11-610122	16	16	6	24	20	10
U11-611112	9	9	17	15	24	16
U11-614119	2	2	1	5	8	3
U11-615155	12	24	11	13	23	21
U11-616107	10	8	20	11	7	18
U11-619102	1	21	4	7	16	14
U11-619104	3	14	7	1	17	12
U11-620101	11	13	14	22	25	19
U11-622089	6	10	16	20	22	11
U11-910094	4	11	15	8	15	17
U11-919011	5	3	5	2	6	8
U11-920016	17	7	8	18	21	1
U11-920017	14	1	2	4	5	5

PRELIMINARY TEST IIB, 2013

MATURITY (date)

Strain	Mean 10 Tests	Boone IA	Urbana IL	Lafayette IN	Ingham County MI	Cotesfield NE	Mead NE
IA 2102 (II)	9/19	9/20	9/10	9/19			9/17
IA1022 (SCN)	-4.3	-3	-5	-7			-5
IA3024	7.0	9	4	6			4
M08-1608-1026	2.8	7	4	5			0
M08-1609002	-2.7	2	-1	-4			-5
MLG03-4069017	-3.1	2	-1	-4			-4
SD10-7225	-1.4	2	-2	-1			-3
SD10-7247	-2.5	-1	-2	-4			-5
SD10-7346	-2.2	2	-2	-4			-4
SD10CV-2005	-2.6	0	-2	-5			-2
SD10CV-2013	-4.2	-3	-2	-7			-5
U11-610109	-0.5	-7	1	0			-1
U11-610122	-0.6	3	-1	-1			-4
U11-611112	0.1	4	0	0			-1
U11-614119	4.2	8	4	2			4
U11-615155	0.9	6	0	2			-4
U11-616107	2.2	5	3	1			3
U11-619102	2.1	6	-1	1			-1
U11-619104	1.8	5	-1	1			-1
U11-620101	2.9	6	3	2			0
U11-622089	0.4	7	0	-1			-3
U11-910094	-0.4	4	-2	-1			-3
U11-919011	-2.1	2	-2	-4			-4
U11-920016	1.8	6	0	1			1
U11-920017	1.2	6	0	0			0
Date Planted	5/19	5/18	5/15	5/23	6/4	5/22	5/15
Days to Mature	123	125	118	119			125

PRELIMINARY TEST IIB, 2013

MATURITY (date)

Strain	Phillips NE	Hoytville OH	Wooster OH	Chatham ONT	Volga SD	Beresford SD
IA 2102 (II)	9/19	9/13	9/18	9/27	9/28	9/20
IA1022 (SCN)	-5	-2	-10	-5	-1	0
IA3024	4	12	7	7	11	6
M08-1608-1026	0	9	4	0	-3	2
M08-1609002	-7	0	-9	0	-4	1
MLG03-4069017	-5	-1	-10	0	-7	-1
SD10-7225	-8	1	-1	0	-5	2
SD10-7247	-8	-2	1	-2	-5	2
SD10-7346	-5	-1	-2	-2	-5	0
SD10CV-2005	-11	0	-8	2	-3	3
SD10CV-2013	-9	-1	-9	0	-5	-1
U11-610109	-5	8	3	1	-5	0
U11-610122	-4	9	0	0	-7	-1
U11-611112	-4	6	-1	3	-5	-1
U11-614119	1	11	5	6	-2	4
U11-615155	-4	13	-2	3	-5	-1
U11-616107	-3	10	3	4	-3	-1
U11-619102	0	13	1	4	-5	3
U11-619104	-1	9	2	3	-1	1
U11-620101	1	9	4	5	2	-3
U11-622089	-4	8	1	2	-7	0
U11-910094	-3	6	0	3	-7	-1
U11-919011	-6	0	-4	2	-4	-1
U11-920016	-4	11	1	3	-5	4
U11-920017	-2	9	1	3	-5	0
Date Planted	5/17	5/17	5/17	6/5	5/9	5/6
Days to Mature	125	119	124	114	142	137

PRELIMINARY TEST IIB, 2013

LODGING (score)

Strain	Mean 10 Tests	Boone IA	Urbana IL	Lafayette IN	Ingham County MI	Cotesfield NE	Mead NE
IA 2102 (II)	1.9	2.3	2.3	1.8	3.0		
IA1022 (SCN)	1.6	1.8	2.3	1.3	2.5		
IA3024	1.4	2.0	1.8	1.0	2.0		
M08-1608-1026	1.4	1.5	1.5	1.0	2.0		
M08-1609002	2.0	1.8	2.8	1.5	4.0		
MLG03-4069017	1.6	1.8	1.8	1.0	2.5		
SD10-7225	1.3	1.5	1.8	1.0	2.5		
SD10-7247	1.5	1.5	1.8	1.0	2.5		
SD10-7346	1.3	1.5	1.8	1.0	1.5		
SD10CV-2005	2.5	2.0	2.5	1.5	3.5		
SD10CV-2013	2.3	2.0	2.5	2.0	4.0		
U11-610109	1.4	2.3	2.0	1.5	2.5		
U11-610122	1.4	2.3	1.8	1.5	2.0		
U11-611112	1.8	2.0	2.0	1.5	3.0		
U11-614119	1.3	1.8	1.5	1.0	1.5		
U11-615155	1.3	1.8	1.5	1.0	2.5		
U11-616107	1.6	2.0	2.5	1.5	2.5		
U11-619102	1.3	2.0	1.5	1.0	2.0		
U11-619104	1.2	2.0	1.3	1.0	2.0		
U11-620101	1.3	1.5	1.5	1.0	2.5		
U11-622089	1.4	2.0	1.3	1.0	2.5		
U11-910094	1.4	2.0	1.8	1.0	2.0		
U11-919011	1.7	1.8	2.0	1.3	3.0		
U11-920016	1.2	1.8	1.5	1.0	2.0		
U11-920017	1.3	2.3	1.5	1.0	2.0		

PRELIMINARY TEST IIB, 2013

LODGING (score)

Strain	Phillips NE	Hoytville OH	Wooster OH	Chatham ONT	Volga SD	Beresford SD
IA 2102 (II)	3.0	1.0	1.0	2.0	1.5	1.0
IA1022 (SCN)	2.0	1.0	1.0	1.0	2.0	1.0
IA3024	2.0	1.0	1.0	1.0	1.0	1.0
M08-1608-1026	2.0	1.0	1.0	1.0	1.5	1.0
M08-1609002	3.0	1.0	2.0	1.5	1.0	1.0
MLG03-4069017	2.0	1.0	1.0	1.5	1.0	2.0
SD10-7225	1.0	1.0	1.0	1.0	1.0	1.0
SD10-7247	3.0	1.0	1.0	1.0	1.0	1.0
SD10-7346	2.0	1.0	1.0	1.0	1.0	1.0
SD10CV-2005	4.0	1.0	2.5	2.5	4.0	1.0
SD10CV-2013	3.0	1.0	3.0	2.0	2.0	1.0
U11-610109	1.0	1.0	1.0	1.0	1.0	1.0
U11-610122	1.0	1.0	1.0	1.0	1.0	1.0
U11-611112	2.0	1.0	2.0	1.5	1.5	1.0
U11-614119	2.0	1.0	1.0	1.0	1.0	1.0
U11-615155	1.0	1.0	1.0	1.5	1.0	1.0
U11-616107	2.0	1.0	1.0	1.5	1.0	1.0
U11-619102	1.0	1.0	1.0	1.0	1.0	1.0
U11-619104	1.0	1.0	1.0	1.0	1.0	1.0
U11-620101	1.0	1.0	1.0	1.0	1.0	1.0
U11-622089	2.0	1.0	1.0	1.0	1.0	1.0
U11-910094	2.0	1.0	1.0	1.0	1.5	1.0
U11-919011	3.0	1.0	1.0	1.0	1.5	1.0
U11-920016	1.0	1.0	1.0	1.0	1.0	1.0
U11-920017	1.0	1.0	1.0	1.0	1.5	1.0

PRELIMINARY TEST IIB, 2013

PLANT HEIGHT (inches)

Strain	Mean 10 Tests	Boone IA	Urbana IL	Lafayette IN	Ingham County MI	Cotesfield NE	Mead NE
IA 2102 (II)	34	27	36	34	33		41
IA1022 (SCN)	33	27	37	30	34		36
IA3024	35	28	35	34	32		41
M08-1608-1026	32	25	36	34	34		35
M08-1609002	39	33	38	41	40		41
MLG03-4069017	36	29	39	39	37		39
SD10-7225	32	25	34	32	33		35
SD10-7247	32	24	33	31	36		37
SD10-7346	31	24	32	33	30		34
SD10CV-2005	39	31	35	39	41		43
SD10CV-2013	37	28	35	37	37		43
U11-610109	35	28	39	40	37		41
U11-610122	33	27	37	37	31		36
U11-611112	38	30	40	40	40		42
U11-614119	34	28	36	37	37		37
U11-615155	35	28	38	35	37		38
U11-616107	36	27	39	39	36		38
U11-619102	33	26	37	37	36		39
U11-619104	33	25	37	34	34		35
U11-620101	34	22	31	32	36		40
U11-622089	33	27	35	32	38		37
U11-910094	35	27	38	37	37		39
U11-919011	37	29	38	38	39		40
U11-920016	34	28	34	36	33		40
U11-920017	33	26	36	34	34		37

PRELIMINARY TEST IIB, 2013

PLANT HEIGHT (inches)

Strain	Phillips NE	Hoytville OH	Wooster OH	Chatham ONT	Volga SD	Beresford SD
IA 2102 (II)		26	35	37	38	31
IA1022 (SCN)		26	36	35	40	31
IA3024		30	35	37	42	36
M08-1608-1026		23	34	33	39	29
M08-1609002		28	38	43	48	37
MLG03-4069017		33	36	36	44	32
SD10-7225		28	31	33	35	31
SD10-7247		27	30	36	35	29
SD10-7346		26	30	33	36	28
SD10CV-2005		31	41	40	55	38
SD10CV-2013		30	38	41	46	36
U11-610109		27	34	35	41	32
U11-610122		26	33	33	38	30
U11-611112		30	37	38	45	34
U11-614119		27	35	38	37	32
U11-615155		27	35	38	37	33
U11-616107		31	34	37	42	37
U11-619102		25	33	32	38	31
U11-619104		23	32	36	40	29
U11-620101		27	34	41	42	35
U11-622089		25	35	33	41	31
U11-910094		27	35	37	43	31
U11-919011		31	37	39	48	35
U11-920016		27	36	37	39	30
U11-920017		29	33	34	38	31

PRELIMINARY TEST IIB, 2013

SEED QUALITY (score)

Strain	Mean 10 Tests	Boone IA	Urbana IL	Lafayette IN	Ingham County MI	Cotesfield NE	Mead NE
IA 2102 (II)	1.4	2.0	2.0	1.0			2.0
IA1022 (SCN)	1.5	2.0	2.0	1.5			2.0
IA3024	1.5	2.0	2.0	1.5			2.0
M08-1608-1026	1.5	1.0	3.0	1.0			2.0
M08-1609002	1.6	2.0	2.0	1.5			2.0
MLG03-4069017	1.4	2.0	2.0	1.0			2.0
SD10-7225	1.5	2.0	2.0	1.0			2.0
SD10-7247	1.5	2.0	2.0	1.0			2.0
SD10-7346	1.4	2.0	1.0	1.0			2.0
SD10CV-2005	1.3	2.0	2.0	1.0			1.0
SD10CV-2013	1.5	2.0	2.0	1.5			2.0
U11-610109	1.2	1.0	2.0	1.0			2.0
U11-610122	1.2	2.0	2.0	1.0			1.0
U11-611112	1.3	2.0	1.0	1.0			2.0
U11-614119	1.3	2.0	1.0	1.0			2.0
U11-615155	1.5	2.0	2.0	1.0			2.0
U11-616107	1.4	2.0	2.0	1.0			2.0
U11-619102	1.4	2.0	1.0	2.0			2.0
U11-619104	1.4	2.0	1.0	1.5			2.0
U11-620101	1.4	2.0	2.0	1.0			1.0
U11-622089	1.3	2.0	1.0	1.0			2.0
U11-910094	1.3	2.0	1.0	1.0			2.0
U11-919011	1.6	2.0	2.0	1.5			2.0
U11-920016	1.4	1.0	1.0	1.5			2.0
U11-920017	1.4	2.0	2.0	1.0			2.0

PRELIMINARY TEST IIB, 2013

SEED QUALITY (score)

Strain	Phillips NE	Hoytville OH	Wooster OH	Chatham ONT	Volga SD	Beresford SD
IA 2102 (II)	2.0	1.0	1.0	1.0	1.0	1.0
IA1022 (SCN)	2.0	1.0	1.0	1.0	1.0	1.0
IA3024	2.0	1.0	1.0	1.0	1.0	1.0
M08-1608-1026	2.0	2.0	1.0	1.0	1.0	1.0
M08-1609002	3.0	1.0	1.0	1.0	1.0	1.0
MLG03-4069017	2.0	1.0	1.0	1.0	1.0	1.0
SD10-7225	3.0	1.0	1.0	1.0	1.0	1.0
SD10-7247	3.0	1.0	1.0	1.0	1.0	1.0
SD10-7346	3.0	1.0	1.0	1.0	1.0	1.0
SD10CV-2005	2.0	1.0	1.0	1.0	1.0	1.0
SD10CV-2013	2.0	1.0	1.0	1.0	1.0	1.0
U11-610109	1.0	1.0	1.0	1.0	1.0	1.0
U11-610122	1.0	1.0	1.0	1.0	1.0	1.0
U11-611112	2.0	1.0	1.0	1.0	1.0	1.0
U11-614119	2.0	1.0	1.0	1.0	1.0	1.0
U11-615155	2.0	2.0	1.0	1.0	1.0	1.0
U11-616107	2.0	1.0	1.0	1.0	1.0	1.0
U11-619102	2.0	1.0	1.0	1.0	1.0	1.0
U11-619104	2.0	1.0	1.0	1.0	1.0	1.0
U11-620101	2.0	1.0	1.0	2.0	1.0	1.0
U11-622089	2.0	1.0	1.0	1.0	1.0	1.0
U11-910094	2.0	1.0	1.0	1.0	1.0	1.0
U11-919011	2.0	1.0	1.0	2.0	1.0	1.0
U11-920016	2.0	1.0	1.0	2.0	1.0	1.0
U11-920017	2.0	1.0	1.0	1.0	1.0	1.0

PRELIMINARY TEST IIB, 2013

SEED SIZE g/100

Strain	Mean 11 Tests	Boone IA	Urbana IL	Lafayette IN	Ingham County MI	Cotesfield NE	Mead NE
IA 2102 (II)	15.8	15.2	16.4	15.1	19.5		16.3
IA1022 (SCN)	15.8	14.6	17.0	15.6	19.2		17.4
IA3024	16.4	15.1	14.7	16.4	19.6		18.0
M08-1608-1026	19.3	16.8	18.7	19.3	25.8		17.6
M08-1609002	16.0	14.8	17.2	15.2	19.7		17.8
MLG03-4069017	17.5	16.7	18.4	17.8	20.1		17.0
SD10-7225	16.2	13.3	16.7	15.8	21.5		16.5
SD10-7247	15.9	14.1	16.9	14.9	19.8		16.2
SD10-7346	15.2	14.4	16.7	13.9	19.2		15.6
SD10CV-2005	18.3	17.2	18.5	18.4	22.8		18.6
SD10CV-2013	18.8	17.5	20.5	18.2	22.7		19.9
U11-610109	16.2	15.1	18.2	15.3	20.6		16.3
U11-610122	14.4	13.4	14.9	14.0	17.4		15.0
U11-611112	14.0	14.4	13.6	13.5	18.4		14.5
U11-614119	16.6	16.3	17.0	16.6	21.1		17.3
U11-615155	15.6	15.6	14.1	14.8	19.5		16.2
U11-616107	15.6	15.3	15.5	15.4	19.5		16.6
U11-619102	15.1	12.9	13.1	13.9	20.0		14.7
U11-619104	14.6	12.9	13.5	13.6	19.3		14.4
U11-620101	14.4	14.1	14.0	14.0	18.4		15.5
U11-622089	13.6	14.3	13.2	13.0	18.1		14.0
U11-910094	15.5	14.6	14.5	15.2	20.0		16.3
U11-919011	15.7	16.0	16.1	14.8	20.6		15.6
U11-920016	14.0	14.3	13.6	12.8	17.2		14.9
U11-920017	17.6	15.7	17.7	16.4	22.8		18.6

PRELIMINARY TEST IIB, 2013

SEED SIZE g/100

Strain	Phillips NE	Hoytville OH	Wooster OH	Chatham ONT	Volga SD	Beresford SD
IA 2102 (II)	17.2	13.7	17.4	15.8	11.0	15.9
IA1022 (SCN)	17.3	13.2	16.1	14.5	13.2	15.7
IA3024	19.3	14.9	16.3	17.2	12.0	17.2
M08-1608-1026	20.7	17.6	20.3	21.2	17.1	17.4
M08-1609002	16.8	14.4	15.7	16.6	13.3	14.6
MLG03-4069017	19.9	15.7	17.4	17.7	12.2	19.1
SD10-7225	17.8	14.2	17.3	16.9	10.9	17.1
SD10-7247	16.9	13.4	16.3	16.7	12.0	17.6
SD10-7346	16.6	12.9	16.1	14.9	11.0	16.2
SD10CV-2005	20.4	16.3	18.9	18.8	15.4	15.8
SD10CV-2013	20.7	16.1	19.5	20.1	14.6	17.3
U11-610109	17.2	14.7	17.1	15.4	11.4	17.3
U11-610122	15.8	12.7	14.9	14.3	10.9	14.8
U11-611112	15.2	12.3	14.1	13.7	10.6	14.0
U11-614119	18.8	14.7	16.7	16.7	12.0	15.4
U11-615155	17.4	15.1	15.9	16.6	11.1	15.3
U11-616107	17.2	13.5	15.7	16.6	11.3	15.0
U11-619102	16.7	14.8	15.1	16.0	11.4	17.3
U11-619104	15.9	13.6	15.2	16.0	11.1	15.3
U11-620101	16.4	12.9	15.0	15.1	10.2	13.3
U11-622089	14.3	13.2	13.8	13.0	10.2	13.1
U11-910094	17.9	13.9	15.9	16.1	11.9	14.2
U11-919011	17.4	13.4	16.1	15.7	11.7	15.1
U11-920016	14.5	12.4	14.2	13.7	10.6	15.6
U11-920017	19.3	15.7	17.9	18.8	12.3	18.7

PRELIMINARY TEST IIB, 2013

PROTEIN (%)

Strain	Mean 5 Tests	Urbana IL	Mead NE	Phillips NE	Chatham* ONT	Volga SD
IA 2102 (II)	35.9	34.8	35.5	36.0	35.3	37.8
IA1022 (SCN)	34.7	34.1	34.8	34.7	33.3	36.6
IA3024	34.8	32.6	35.0	35.7	33.9	36.9
M08-1608-1026	36.9	36.7	36.5	37.0	36.6	37.6
M08-1609002	35.5	34.6	35.3	35.0	35.1	37.5
MLG03-4069017	36.8	35.7	36.3	37.0	36.6	38.4
SD10-7225	35.9	34.9	35.9	35.8	35.5	37.5
SD10-7247	35.6	34.9	35.2	35.7	34.9	37.4
SD10-7346	35.6	34.9	35.0	36.0	35.1	37.1
SD10CV-2005	36.7	36.1	36.7	37.0	36.2	37.7
SD10CV-2013	37.5	37.3	36.6	37.4	38.4	37.6
U11-610109	35.4	34.8	34.9	35.2	35.1	37.2
U11-610122	33.5	32.6	33.2	33.1	33.0	35.4
U11-611112	34.1	32.4	34.1	34.4	32.9	36.7
U11-614119	35.2	33.3	35.0	35.4	34.9	37.3
U11-615155	35.3	33.8	34.9	35.4	34.5	37.9
U11-616107	35.4	34.1	35.5	35.7	34.5	37.3
U11-619102	34.9	34.2	34.0	34.7	34.0	37.5
U11-619104	35.2	34.7	34.4	35.5	33.8	37.9
U11-620101	34.4	32.7	33.4	34.6	33.6	37.8
U11-622089	34.9	33.4	35.1	34.4	34.8	36.9
U11-910094	35.0	33.5	34.9	35.4	34.5	36.8
U11-919011	35.1	34.0	34.9	35.3	35.2	36.2
U11-920016	35.5	34.1	35.3	34.9	35.7	37.5
U11-920017	34.1	33.4	34.0	33.8	32.9	36.2

* Protein and Oil values converted to 13% moisture basis.

PRELIMINARY TEST IIB, 2013

OIL (%)

Strain	Mean 5 Tests	Urbana IL	Mead NE	Phillips NE	Chatham* ONT	Volga SD
IA 2102 (II)	18.5	19.4	18.9	18.7	18.2	17.1
IA1022 (SCN)	20.1	20.3	20.1	20.0	20.8	19.0
IA3024	19.3	20.4	19.8	19.6	18.9	17.6
M08-1608-1026	18.6	18.8	18.8	18.9	18.4	18.4
M08-1609002	19.0	19.3	19.2	19.3	18.8	18.2
MLG03-4069017	18.9	19.8	19.6	19.3	18.4	17.6
SD10-7225	20.2	20.8	20.7	20.5	19.9	18.9
SD10-7247	20.3	20.9	21.0	20.6	20.2	18.9
SD10-7346	20.2	20.8	21.0	20.3	20.1	18.8
SD10CV-2005	19.6	20.2	19.9	19.9	19.1	19.1
SD10CV-2013	19.5	19.8	20.0	19.6	19.1	19.2
U11-610109	19.5	20.2	20.0	19.9	19.1	18.1
U11-610122	19.0	19.6	19.3	19.4	19.0	17.9
U11-611112	19.7	21.0	20.0	19.8	19.8	17.8
U11-614119	19.1	20.3	19.5	19.4	19.1	17.5
U11-615155	19.4	20.4	20.0	19.8	19.7	17.1
U11-616107	19.4	20.3	19.8	19.5	19.6	17.7
U11-619102	18.7	19.1	19.2	19.2	18.9	17.0
U11-619104	18.5	18.9	19.2	19.1	18.7	16.4
U11-620101	18.5	19.9	19.5	19.4	18.6	15.3
U11-622089	18.9	20.0	19.5	19.8	18.4	17.1
U11-910094	18.7	19.4	19.2	19.0	18.5	17.5
U11-919011	19.0	19.6	19.6	19.2	18.3	18.1
U11-920016	18.5	19.2	18.9	19.2	18.4	16.7
U11-920017	19.6	20.0	19.8	20.0	19.8	18.2

Uniform Test III, 2013

Ent.	Strain	Parentage	Seed Source	Previous Testing	Gen. Comp.	Unique Traits
1	IA3023 (III)	Dairyland DSR-365 x Pioneer P9381	Fehr	**12**	F5	
2.	IA3024	A97-553017 x Pioneer YB33A99	Fehr	**6**		1% linolenic
3.	IA3048 (SCN)	Dairyland 99540 x IA2068	Fehr	**5**	F4	SCN
4.	IA4005	IA3023 x IA3025	Fehr	**3**		1% linolenic
5.	AR11-214015	AR3 x PI 398697	Cianzio	PTIIIA	F5	IDC, PR
6.	LD08-1592	LD03-7607 x LD00-3309	Diers	1	F5	SCN
7.	LD08-8622	M30121 x IA3024	Diers	1	F5	SCN
8.	LD08-RST5-10	LD00-3309 (4) x PI 547875	Diers	PTIIIA	F3	SCN, rust
9.	LG09-7163	LG00-3372 x HC99-2763	Nelson	PTIIIB	F6	genetic diversity
10.	LG09-8165	PI 603571A x LG00-6182	Nelson	PTIIIB	F6	genetic diversity
11.	U10-430052	(U01-390489 x LD01-5907) X U02-341563	Graef	PTIIIB	F4	SCN R, NR

UNIFORM TEST III, 2013

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	Chlorosis Score Humboldt IA	Shattering Score Manhattan KS	Green Stem Score Wanatah IN	Green Stem Score S. Charleston OH	SDS DX Valmeyer IL
IA3023 (III)	WLtTDYBlI	3.5	1.0	1.0	1.7	42
IA3024	PGTDYIbI	3.3	3.0	1.0	1.3	47
IA3048 (SCN)	WGBIYYI	4.0	2.0	1.0	1.0	1
IA4005	WTTDYBlI	3.5	3.0	1.0	3.0	13
AR11-214015	PGTDYIbI	3.5	2.0	1.0	1.0	18
LD08-1592	PGBDYYI	3.6	3.0	1.0	2.3	1
LD08-8622	PGTDYIbI	2.9	3.0	1.0	1.3	25
LD08-RST5-10	PTBIYLblI	3.3	3.0	1.0	2.7	2
LG09-7163	PGBDYIbI	3.7	4.0	1.0	1.7	39
LG09-8165	PGBDYIbI	3.4	2.0	1.0	1.3	19
U10-430052	PGBDYGSD	3.2	2.0	1.0	1.0	1
AR07-376031(res)						2
2900CR(sus)						29
Mean						18
LSD						21
P(0.05)						0.001

UNIFORM TEST III, 2013

REGIONAL SUMMARY

Strain	Yield bu/a	Rank No.	Maturity Date	Lodging Score	Plant Height In.	Seed Quality Score	Seed Size g/100	Composition Protein %	Composition Oil %
No. of Tests	14	14	13	14	14	14	16	6	6
IA3023 (III)	56.9	6	9/20	1.4	30	1.6	15.6	34.0	20.0
IA3024	57.2	5	-1.5	1.3	32	2.2	15.7	34.3	19.9
IA3048 (SCN)	51.0	10	0.1	1.5	31	1.6	14.3	35.4	19.5
IA4005	60.7	3	6.6	1.3	30	1.8	14.4	35.3	19.4
AR11-214015	55.6	8	-4.7	1.3	31	2.2	15.8	33.7	20.5
LD08-1592	56.3	7	-0.3	1.3	34	1.8	15.5	36.0	19.1
LD08-8622	63.7	1	2.7	1.7	35	1.8	15.0	34.8	20.2
LD08-RST5-10	55.3	9	2.7	1.5	35	2.0	14.2	35.7	18.9
LG09-7163	62.0	2	2.9	1.5	33	2.0	15.0	36.3	19.3
LG09-8165	60.3	4	2.5	1.4	36	2.1	15.8	35.7	19.1
U10-430052	48.5	11	-1.9	1.3	26	2.0	14.0	34.8	20.1

123.3 Days After Planting

UNIFORM TEST III, 2013

2012-2013 2-YEAR MEAN

Strain	Yield bu/a	Rank No.	Maturity Date	Lodging Score	Plant Height In.	Seed Quality Score	Seed Size g/100	Composition Protein %	Composition Oil %
No. of Tests	32	32	28	30	30	27	33	19	19
IA3023 (III)	57.0	3	9/19	1.5	32	1.8	15.4	33.7	19.9
IA3024	55.5	5	-1.2	1.5	34	2.4	15.8	34.2	19.8
IA3048 (SCN)	52.5	6	0.2	1.6	33	1.9	14.7	35.1	19.3
IA4005	59.8	2	6.8	1.4	32	1.9	14.5	34.8	19.4
LD08-1592	56.1	4	0.0	1.4	34	1.9	15.4	35.3	19.1
LD08-8622	60.1	1	2.9	1.8	36	2.2	15.2	34.8	19.9

125.3 Days After Planting

UNIFORM TEST III, 2013

YIELD (bu/a)

Strain	Mean 14 Tests	Carlisle IA	Greenfield IA	Crawfordsville IA	Arthur IL	Urbana IL	Lafayette IN	Wanatah IN	Butlerville IN
IA3023 (III)	56.9	58.7	55.1	45.0	63.0	65.4	63.1	68.9	34.3
IA3024	57.2	64.5	54.6	48.8	66.5	66.0	69.0	59.4	32.1
IA3048 (SCN)	51.0	49.2	48.5	29.3	57.9	62.7	67.1	58.9	38.4
IA4005	60.7	54.1	61.3	54.2	68.7	67.2	70.1	65.1	52.7
AR11-214015	55.6	55.9	49.2	49.1	66.7	69.1	71.0	61.6	41.8
LD08-1592	56.3	54.0	54.3	38.1	62.2	66.0	70.5	65.5	43.8
LD08-8622	63.7	64.7	64.2	56.5	71.8	73.2	74.5	67.5	47.1
LD08-RST5-10	55.3	59.1	53.1	44.7	59.1	62.0	68.4	62.1	43.9
LG09-7163	62.0	59.7	58.5	56.5	68.0	67.0	76.4	61.1	48.8
LG09-8165	60.3	59.1	58.6	50.1	69.3	65.1	76.1	60.4	52.4
U10-430052	48.5	54.6	45.0	29.7	59.7	61.3	64.0	61.7	36.4
Location Mean		57.6	54.8	45.6	64.8	65.9	70.0	62.9	42.9
C.V. (%)		7.8	7.8	11.1	6.8	5.2	3.9	7.5	10.8
L.S.D. (5%)		9.9	9.6	11.3	9.8	7.7	4.7	8.0	7.9
Row Sp. (in.)		27	27	30	30	30	30	30	30
Rows/Plot		4	4	4	4	4	4	4	4
Reps		2	2	2	2	2	3	3	3

UNIFORM TEST III, 2013

YIELD RANK

Strain	Yield Rank	Carlisle IA	Greenfield IA	Crawfordsville IA	Arthur IL	Urbana IL	Lafayette IN	Wanatah IN	Butlerville IN
IA3023 (III)	6	6	5	7	7	7	11	1	10
IA3024	5	2	6	6	6	5	7	10	11
IA3048 (SCN)	10	11	10	11	11	9	9	11	8
IA4005	3	9	2	3	3	3	6	4	1
AR11-214015	8	7	9	5	5	2	4	7	7
LD08-1592	7	10	7	9	8	5	5	3	6
LD08-8622	1	1	1	1	1	1	3	2	4
LD08-RST5-10	9	4	8	8	10	10	8	5	5
LG09-7163	2	3	4	2	4	4	1	8	3
LG09-8165	4	4	3	4	2	8	2	9	2
U10-430052	11	8	11	10	9	11	10	6	9

UNIFORM TEST III, 2013

YIELD (bu/a)

Strain	Ashland* KS	Ottawa KS	Columbia MO	Portageville* (Loam) MO	Goehner NE	Wymore NE	Hoytville OH	South Charleston OH
IA3023 (III)	41.4	32.6	45.4	28.5	80.4	81.4	47.0	57.0
IA3024	38.0	30.1	48.2	24.7	73.0	79.9	54.3	54.7
IA3048 (SCN)	59.7	28.5	44.4	31.6	66.8	69.7	46.5	45.5
IA4005	35.9	29.3	49.8	48.0	85.0	86.2	55.4	50.7
AR11-214015	38.0	28.3	43.6	28.5	60.3	79.7	50.7	50.9
LD08-1592	56.2	29.9	50.1	48.8	65.7	77.0	54.6	57.1
LD08-8622	53.2	31.7	49.9	39.0	77.6	85.9	60.2	67.1
LD08-RST5-10	57.8	28.1	40.0	26.1	67.0	75.1	56.8	54.8
LG09-7163	41.7	40.6	50.1	45.4	69.2	85.2	64.8	62.2
LG09-8165	39.1	29.3	61.7	47.0	70.1	75.5	66.6	50.3
U10-430052	53.1	20.9	37.2	29.5	64.5	59.3	33.3	50.9
Location Mean	46.7	29.9	47.3	36.1	70.9	77.7	53.7	54.7
C.V. (%)	16.3	11.9	8.6	22.8	11.5	4.6	9.4	12.7
L.S.D. (5%)	10.8	5.1	6.9	17.0	18.1	7.9	8.6	11.9
Row Sp. (in.)	30	30	30	30	30	30	7.5	15
Rows/Plot	4	4	4	4	4	4	8	6
Reps	3	3	3	3	2	2	3	3

UNIFORM TEST III, 2013

YIELD RANK

Strain	Ashland KS	Ottawa KS	Columbia MO	Portageville (Loam) MO	Goehner NE	Wymore NE	Hoytville OH	South Charleston OH
IA3023 (III)	7	2	7	8	2	4	9	4
IA3024	9	4	6	11	4	5	7	6
IA3048 (SCN)	1	8	8	6	8	10	10	11
IA4005	11	6	5	2	1	1	5	9
AR11-214015	9	9	9	8	11	6	8	7
LD08-1592	3	5	3	1	9	7	6	3
LD08-8622	4	3	4	5	3	2	3	1
LD08-RST5-10	2	10	10	10	7	9	4	5
LG09-7163	6	1	2	4	6	3	2	2
LG09-8165	8	7	1	3	5	8	1	10
U10-430052	5	11	11	7	10	11	11	7

UNIFORM TEST III, 2013

MATURITY (date)

Strain	Mean 13 Tests	Carlisle IA	Greenfield IA	Crawfordsville IA	Arthur IL	Urbana IL	Lafayette IN	Wanatah IN	Butlerville IN
IA3023 (III)	9/20	9/30		9/23	9/21	9/19	9/24	9/21	9/16
IA3024	-1.5	-2		1	-1	-2	-1	-4	1
IA3048 (SCN)	0.1	-4		3	-2	1	-1	1	6
IA4005	6.6	4		4	9	6	8	1	11
AR11-214015	-4.7	-6		-1	-3	-6	-4	-2	-3
LD08-1592	-0.3	-3		2	0	0	1	-3	2
LD08-8622	2.7	0		4	5	3	3	4	9
LD08-RST5-10	2.7	0		4	1	1	4	-2	7
LG09-7163	2.9	1		4	4	3	4	-2	11
LG09-8165	2.5	2		4	7	4	3	-2	9
U10-430052	-1.9	-3		2	-1	-3	-3	2	-2
Date Planted	5/19	5/18		5/22	5/23	5/15	5/23	5/14	5/29
Days to Mature	123	135		124	121	127	124	130	110

UNIFORM TEST III, 2013

LODGING (score)

Strain	Mean 14 Tests	Carlisle IA	Greenfield IA	Crawfordsville IA	Arthur IL	Urbana IL	Lafayette IN	Wanatah IN	Butlerville IN
IA3023 (III)	1.4	2.0	1.5	2.0	1.5	1.5	1.0	1.3	1.2
IA3024	1.3	2.0	1.5	1.8	1.3	1.5	1.0	1.0	1.0
IA3048 (SCN)	1.5	2.0	2.0	2.5	2.0	1.5	1.2	1.0	1.0
IA4005	1.3	1.3	1.5	2.0	1.3	1.0	1.0	1.0	1.0
AR11-214015	1.3	2.0	1.5	1.8	1.0	1.3	1.0	1.0	1.2
LD08-1592	1.3	1.5	1.3	2.0	1.5	1.5	1.0	1.2	1.0
LD08-8622	1.7	2.3	1.8	2.0	2.3	2.3	1.5	1.3	1.0
LD08-RST5-10	1.5	2.0	1.3	1.8	2.8	1.8	1.0	1.0	1.0
LG09-7163	1.5	2.5	1.5	1.8	1.5	2.3	1.0	1.0	1.0
LG09-8165	1.4	1.5	1.5	1.5	2.3	2.3	1.0	1.0	1.0
U10-430052	1.3	1.8	1.8	1.8	1.0	1.5	1.0	1.0	1.3

UNIFORM TEST III, 2013

MATURITY (date)

Strain	Ashland KS	Ottawa KS	Columbia MO	Portageville (Loam) MO	Goehner NE	Wymore NE	Hoytville OH	South Charleston OH
IA3023 (III)	9/12		9/23	9/6	9/22		9/26	9/17
IA3024	-2		1	-1	-4		-3	-3
IA3048 (SCN)	4		-0	2	-8		-1	1
IA4005	5		6	7	10		6	10
AR11-214015	-2		-6	-6	-11		-5	-6
LD08-1592	-1		-0	2	-9		2	3
LD08-8622	4		1	7	-1		3	-6
LD08-RST5-10	3		2	6	1		3	7
LG09-7163	1		2	8	-6		2	6
LG09-8165	-0		2	2	1		1	1
U10-430052	3		-2	-4	-8		-2	-3
Date Planted	5/15	5/28	6/7	5/13	5/14	5/18	5/17	5/9
Days to Mature	120		108	116	131		132	131

UNIFORM TEST III, 2013

LODGING (score)

Strain	Ashland KS	Ottawa KS	Columbia MO	Portageville (Loam) MO	Goehner NE	Wymore NE	Hoytville OH	South Charleston OH
IA3023 (III)	1.0	1.0	1.5	2.0			1.0	1.2
IA3024	1.0	1.0	1.5	1.0			1.0	1.5
IA3048 (SCN)	1.7	1.0	1.5	1.0			1.0	1.2
IA4005	1.0	1.0	1.5	2.0			1.0	1.3
AR11-214015	1.3	1.0	1.5	1.0			1.0	1.2
LD08-1592	1.0	1.0	1.5	2.0			1.0	1.3
LD08-8622	2.0	1.0	1.8	2.0			1.0	2.0
LD08-RST5-10	1.7	1.0	1.5	2.0			1.0	1.8
LG09-7163	1.0	1.0	1.5	2.0			1.0	1.5
LG09-8165	1.0	1.0	1.7	2.0			1.0	1.3
U10-430052	1.0	1.0	1.5	1.0			1.0	1.0

UNIFORM TEST III, 2013

PLANT HEIGHT (inches)

Strain	Mean 14 Tests	Carlisle IA	Greenfield IA	Crawfordsville IA	Arthur IL	Urbana IL	Lafayette IN	Wanatah IN	Butlerville IN
IA3023 (III)	30	27	26	30	39	37	36	32	25
IA3024	32	33	27	31	40	34	36	33	25
IA3048 (SCN)	31	32	26	30	37	33	37	31	26
IA4005	30	27	25	27	36	34	34	32	26
AR11-214015	31	32	27	30	37	35	36	32	28
LD08-1592	34	32	28	31	39	40	39	33	28
LD08-8622	35	38	32	34	40	37	39	35	30
LD08-RST5-10	35	36	29	32	43	42	40	31	30
LG09-7163	33	37	29	31	40	39	41	30	26
LG09-8165	36	36	28	33	45	42	45	28	31
U10-430052	26	31	25	24	31	28	33	30	26

UNIFORM TEST III, 2013

SEED QUALITY (score)

Strain	Mean 14 Tests	Carlisle IA	Greenfield IA	Crawfordsville IA	Arthur IL	Urbana IL	Lafayette IN	Wanatah IN	Butlerville IN
IA3023 (III)	1.6			2.0	1.0	1.0	1.0	1.0	2.0
IA3024	2.2			2.0	2.0	2.0	1.5	2.0	3.5
IA3048 (SCN)	1.6			2.0	1.0	1.0	1.0	1.5	2.0
IA4005	1.8			2.0	2.0	1.0	1.0	1.0	2.0
AR11-214015	2.2			2.0	2.0	1.0	1.0	1.0	3.0
LD08-1592	1.8			2.0	1.0	1.0	1.0	1.0	1.5
LD08-8622	1.8			2.0	1.0	1.0	1.0	1.5	3.0
LD08-RST5-10	2.0			2.0	2.0	2.0	1.0	1.5	2.5
LG09-7163	2.0			2.0	1.0	2.0	1.0	1.5	2.0
LG09-8165	2.1			3.0	1.0	2.0	1.0	1.5	2.5
U10-430052	2.0			2.0	1.0	1.0	1.0	1.5	3.5

UNIFORM TEST III, 2013

PLANT HEIGHT (inches)

Strain	Ashland KS	Ottawa KS	Columbia MO	Portageville (Loam) MO	Goehner NE	Wymore NE	Hoytville OH	South Charleston OH
IA3023 (III)	35	26	26	27			29	32
IA3024	34	28	30	28			30	34
IA3048 (SCN)	36	29	28	25			31	33
IA4005	35	26	28	32			30	29
AR11-214015	33	25	31	25			31	33
LD08-1592	41	30	31	32			33	36
LD08-8622	37	30	32	31			37	40
LD08-RST5-10	41	27	29	35			34	35
LG09-7163	37	28	32	27			36	37
LG09-8165	39	31	36	28			37	38
U10-430052	27	20	23	18			29	24

UNIFORM TEST III, 2013

SEED QUALITY (score)

Strain	Ashland KS	Ottawa KS	Columbia MO	Portageville (Loam) MO	Goehner NE	Wymore NE	Hoytville OH	South Charleston OH
IA3023 (III)	2.0	2.0	1.5	4.0	1.0	1.0	1.0	2.0
IA3024	2.0	3.0	1.7	3.0	2.0	2.0	1.0	2.7
IA3048 (SCN)	1.0	2.0	1.5	3.0	1.0	2.0	1.0	2.7
IA4005	2.0	2.0	1.5	4.0	2.0	2.0	1.0	2.0
AR11-214015	3.0	4.0	1.8	4.0	2.0	2.0	1.0	2.3
LD08-1592	2.0	2.0	1.5	3.0	2.0	2.0	2.0	2.7
LD08-8622	2.0	2.0	1.7	3.0	2.0	2.0	1.0	2.3
LD08-RST5-10	3.0	3.0	1.5	3.0	3.0	1.0	1.0	2.0
LG09-7163	3.0	2.0	1.5	4.0	2.0	2.0	1.0	2.3
LG09-8165	2.0	2.0	1.7	4.0	2.0	3.0	1.0	3.0
U10-430052	3.0	2.0	1.5	4.0	2.0	2.0	2.0	2.0

UNIFORM TEST III, 2013

SEED SIZE (g/100)

Strain	Mean 16 Tests	Carlisle IA	Greenfield IA	Crawfordsville IA	Arthur IL	Urbana IL	Lafayette IN	Wanatah IN	Butlerville IN
IA3023 (III)	15.6	16.6	18.5	15.6	14.4	15.4	15.1	14.5	12.7
IA3024	15.7	16.3	17.9	14.1	15.6	16.9	14.8	16.2	12.9
IA3048 (SCN)	14.3	13.9	14.9	12.6	13.1	14.6	14.9	14.6	11.8
IA4005	14.4	14.1	17.3	14.1	14.8	13.3	15.3	14.7	12.3
AR11-214015	15.8	15.6	17.9	15.1	15.4	16.3	14.8	15.8	12.7
LD08-1592	15.5	16.4	17.3	14.4	13.9	14.7	16.2	16.2	12.6
LD08-8622	15.0	15.5	16.9	13.2	16.0	15.4	15.5	15.3	11.3
LD08-RST5-10	14.2	14.5	15.6	12.9	13.2	13.2	14.6	14.6	12.1
LG09-7163	15.0	15.2	16.9	14.0	15.1	14.7	15.3	15.5	12.9
LG09-8165	15.8	15.5	17.2	14.7	16.7	15.3	16.0	14.7	13.0
U10-430052	14.0	14.0	14.8	12.7	13.9	14.0	13.9	14.4	11.1

UNIFORM TEST III, 2013

SEED SIZE (g/100)

Strain	Ashland KS	Ottawa KS	Columbia MO	Portageville (Loam) MO	Goehner NE	Wymore NE	Hoytville OH	South Charleston OH
IA3023 (III)	13.5	17.5	14.3	17.9	14.0	18.6	14.3	16.0
IA3024	14.3	18.9	14.2	16.0	14.6	18.5	14.6	15.8
IA3048 (SCN)	14.4	16.9	13.0	16.1	12.7	17.4	13.3	13.8
IA4005	12.9	16.2	13.0	15.1	14.2	15.7	13.2	15.0
AR11-214015	15.1	20.0	13.4	15.4	14.2	20.5	14.2	16.6
LD08-1592	15.0	17.4	13.8	15.4	14.5	19.0	16.6	14.9
LD08-8622	13.8	15.6	12.8	17.4	13.7	17.4	14.3	15.7
LD08-RST5-10	13.2	15.3	12.3	18.2	13.1	15.7	14.3	14.0
LG09-7163	13.8	16.9	13.2	19.3	12.9	17.0	13.8	14.4
LG09-8165	14.7	19.8	14.7	17.5	14.7	18.7	14.7	14.5
U10-430052	14.7	16.0	12.7	13.6	12.5	18.0	13.2	14.9

UNIFORM TEST III, 2013

PROTEIN (%)

Strain	Mean 6 Tests	Aruthur IL	Urbana IL	Ashland KS	Columbia MO	Goehner NE	Wymore NE
IA3023 (III)	34.0	33.9	32.1	32.7	34.9	35.8	34.4
IA3024	34.3	34.2	32.4	33.1	35.2	36.4	34.7
IA3048 (SCN)	35.4	35.4	34.1	34.3	35.8	36.8	36.1
IA4005	35.3	35.2	34.3	34.7	35.7	36.4	35.5
AR11-214015	33.7	33.3	33.0	32.4	34.6	35.4	33.6
LD08-1592	36.0	35.9	34.9	35.5	36.8	36.8	36.2
LD08-8622	34.8	34.0	33.8	34.4	35.8	36.1	34.5
LD08-RST5-10	35.7	35.6	34.6	35.1	36.9	36.5	35.8
LG09-7163	36.3	35.7	35.4	35.7	37.1	37.8	36.2
LG09-8165	35.7	35.4	34.0	34.8	36.3	37.9	35.5
U10-430052	34.8	34.6	33.8	33.7	35.7	36.2	34.9

* Protein and Oil values converted to 13% moisture basis.

UNIFORM TEST III, 2013

OIL (%)

Strain	Mean 6 Tests	Aruthur IL	Urbana IL	Ashland KS	Columbia MO	Goehner NE	Wymore NE
IA3023 (III)	20.0	20.1	20.8	20.5	20.1	19.10	19.4
IA3024	19.9	19.9	20.7	20.6	19.6	19.36	19.2
IA3048 (SCN)	19.5	19.3	19.9	20.5	19.6	18.91	18.7
IA4005	19.4	19.6	20.1	19.5	19.5	18.79	19.0
AR11-214015	20.5	20.7	21.1	21.0	19.7	20.14	20.1
LD08-1592	19.1	19.1	19.6	19.8	18.7	18.79	18.7
LD08-8622	20.2	20.8	21.0	20.9	19.4	19.55	19.8
LD08-RST5-10	18.9	18.7	19.5	19.5	18.4	18.58	18.6
LG09-7163	19.3	19.8	19.8	19.7	19.1	18.58	18.7
LG09-8165	19.1	19.5	20.0	19.6	18.6	18.13	18.6
U10-430052	20.1	20.1	20.8	20.6	19.8	19.69	19.6

Preliminary Test IIIA, 2013

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.	IA4005	IA3023 x IA3025	Fehr	F4	
5.	AR12-228017	AR07-176037 x Syngenta 05RM926756	Cianzo	F4	BSR
6.	AR12-228108	AR06-364039 x Syngenta 04KL108370	Cianzo	F4	SDS
7.	AR12-228120	AR03-361091 x Syngenta 04KL108370	Cianzo	F4	SDS
8.	AR12-228145	AR07-176077 x Syngenta 05JR200591	Cianzo	F4	
9.	AR12-328003	AR05-250002 x Syngenta 04KL108370	Cianzo	F4	BSR
10.	AR12-328006	AR07-176037 x Syngenta 03JR101016	Cianzo	F4	BSR
11.	AR12-328011	AR05-250002 x Syngenta 03JR321088	Cianzo	F4	BSR
12.	AR12-328018	AR07-176037 x Syngenta 05RM926756	Cianzo	F4	BSR
13.	AR12-328020	AR06-264007 x Golden Harvest X 33802	Cianzo	F4	IDC
14.	AR12-328034	AR05-250002 x Syngenta 03JR101916	Cianzo	F4	SDS
15.	AR12-328048	AR06-364039 x Syngenta 05RM926756	Cianzo	F4	SDS
16.	AR12-328074	AR07-176075 x Syngenta 05RM926756	Cianzo	F4	
17.	AR12-328078	AR07-176077 x Syngenta 05JR200591	Cianzo	F4	
18.	AR12-328080	AR07-276077 x Syngenta 03JR321088	Cianzo	F4	
19.	HM10-A012	Dennison x HS4-2973	McHale	F4	
20.	HM10-W336	HS5-1134-21 x HS3-2669	McHale	F4	
21.	HM10-W346	HS5-1134-21 x HS3-2670	McHale	F4	
22.	HM11-H031	HS4-2973 x OHS 303	McHale	F4	
23.	HM11-W157	HS4-2973 x OHS 303	McHale	F4	
24.	HM11-W192	OHS 305 x OHS 303	McHale	F4	
25.	HM11-W193	OHS 305 x OHS 303	McHale	F4	
26.	LG09-7477	LG00-8298 x H-2885	Nelson	F6	Genetic diversity
27.	LG10-2688	IA3023 x LG03-3020	Nelson	F6	Genetic diversity
28.	LG10-2983	LG02-3996 x LG00-6925	Nelson	F6	Genetic diversity
29.	LG10-3409	LG03-2979 x LG03-3020	Nelson	F6	Genetic diversity
30.	LG10-3413	LG03-2979 x LG03-3020	Nelson	F6	Genetic diversity
31.	LG11-5120	LG03-3020 x LG03-3780	Nelson	F6	Genetic diversity
32.	LG11-6210	LG03-3020 x LG03-3780	Nelson	F6	Genetic diversity
33.	LG11-6214	LG03-3020 x LG03-3780	Nelson	F6	Genetic diversity

PRELIMINARY TEST IIIA, 2013

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	Shattering Score Manhattan KS	Green Stem Score S. Charleston OH
IA3023 (III)	WLtTDYBlI	2.0	1.5
IA3024	PGTDYIbI	4.0	1.5
IA3048 (SCN)	WGBIYYI	2.0	1.0
IA4005	WTTDYBlI	2.0	3.5
AR12-228017	PGBDYBfI	4.0	1.0
AR12-228108	WTTDYBlI	2.0	1.0
AR12-228120	PTTDYBrI	4.0	1.5
AR12-228145	PT+GDYBl+IbI	3.0	1.0
AR12-328003	PGBDYBfI	5.0	1.0
AR12-328006	PLtTDYBlI	2.0	2.0
AR12-328011	PGTSYBfI	2.0	1.0
AR12-328018	PGBDYLbfI	2.0	1.0
AR12-328020	PLtTDYBlI	2.0	1.0
AR12-328034	PLtTDYBrI	2.0	1.0
AR12-328048	WG+LtTDYBr+BfI	2.0	1.0
AR12-328074	PLtTDYLbrI	4.0	1.0
AR12-328078	PGTDYIbI	3.0	1.0
AR12-328080	PLtTDYBlI	3.0	1.0
HM10-A012	WLtBDYBrI	3.0	3.0
HM10-W336	WLtBSYBrI	2.0	1.0
HM10-W346	WLtBSYBrI	3.0	1.0
HM11-H031	PLtBDYBlI	3.0	1.5
HM11-W157	PGTDYIbI	3.0	1.0
HM11-W192	PLtBDYBlI	3.0	1.5
HM11-W193	PGBDYIbI	2.0	3.5
LG09-7477	WGBDYBfI	2.0	3.3
LG10-2688	WLtTDYBlI	3.0	1.5
LG10-2983	PGBDYBrI	4.0	1.5
LG10-3409	WTBDYBlI	2.0	2.0
LG10-3413	PTBDYBlI	2.0	1.0
LG11-5120	WTBDYBlI	2.0	2.5
LG11-6210	WTTDYBlI	2.0	4.5
LG11-6214	PTTDYBlI	2.0	4.5

PRELIMINARY TEST IIIA, 2013

REGIONAL SUMMARY

No. of Tests Strain	Yield 8 bu/a	Rank 8 No.	Maturity 8 Date	Lodging 8 Score	Plant Height 8 In.	Seed Quality 10 Score	Seed Size 10 g/100	Composition Protein 4 %	 Oil 4 %
IA3023 (III)	54.4	24	9/21	1.4	32	1.6	15.3	34.5	19.7
IA3024	59.2	11	-0.3	1.4	33	2.1	15.6	34.6	19.8
IA3048 (SCN)	55.8	16	0.4	1.5	31	1.7	14.4	35.7	19.0
IA4005	59.3	10	7.1	1.3	31	1.9	14.2	35.4	19.2
AR12-228017	55.7	17	-5.3	1.6	33	1.7	14.7	35.0	19.6
AR12-228108	54.3	25	-6.3	1.5	31	1.8	14.1	36.5	19.0
AR12-228120	54.3	25	1.8	1.7	37	1.9	14.4	35.3	18.7
AR12-228145	54.9	21	-6.9	1.3	30	2.0	15.4	35.2	19.5
AR12-328003	52.9	29	-3.1	1.4	37	2.1	15.9	35.7	19.1
AR12-328006	55.4	18	2.1	1.3	27	1.9	14.7	36.5	19.2
AR12-328011	54.6	23	-3.4	1.4	31	2.0	12.0	34.8	19.6
AR12-328018	52.1	32	-2.1	1.5	32	2.0	14.1	34.3	19.6
AR12-328020	54.1	27	-4.9	1.5	32	1.9	16.2	36.5	19.1
AR12-328034	52.9	29	0.6	1.4	32	2.0	13.8	35.2	19.5
AR12-328048	52.5	31	-5.9	1.3	28	1.7	14.4	35.6	19.8
AR12-328074	53.2	28	-3.0	1.3	31	1.7	15.4	35.8	19.4
AR12-328078	51.4	33	-6.4	1.4	30	1.6	14.7	35.0	19.9
AR12-328080	62.1	4	0.1	1.5	31	1.8	15.4	34.7	20.2
HM10-A012	55.1	20	2.8	1.8	36	1.7	14.6	36.9	18.1
HM10-W336	58.2	12	-0.4	1.6	34	2.0	14.9	35.1	19.4
HM10-W346	56.5	14	0.3	1.8	35	1.6	14.9	34.9	19.4
HM11-H031	57.2	13	0.0	1.3	35	1.7	14.9	36.0	18.5
HM11-W157	56.1	15	2.8	1.4	39	1.6	15.2	36.3	19.0
HM11-W192	62.8	2	3.5	2.0	37	2.0	17.9	37.7	18.5
HM11-W193	64.3	1	6.9	2.3	37	2.0	17.7	36.4	18.9
LG09-7477	60.4	7	6.0	1.7	36	1.4	14.5	35.6	18.4
LG10-2688	60.8	6	3.2	2.0	37	1.8	15.7	34.7	18.8
LG10-2983	60.0	9	4.7	2.5	43	2.0	17.9	36.6	18.9
LG10-3409	54.6	22	4.9	1.9	38	1.8	14.4	35.7	19.0
LG10-3413	55.1	19	2.3	2.1	39	1.8	14.5	35.7	19.3
LG11-5120	60.4	7	1.5	1.4	37	1.4	13.9	35.4	18.9
LG11-6210	62.3	3	3.9	1.5	36	1.6	13.6	35.8	18.9
LG11-6214	61.5	5	4.9	1.8	37	1.6	13.7	35.8	18.3

123.7 Days After Planting

PRELIMINARY TEST IIIA, 2013

YIELD (bu/a)

Strain	Mean 8 Tests	Crawfordsville* IA	Urbana IL	Lafayette IN	Manhattan KS	Ottawa KS
IA3023 (III)	54.4	46.4	61.2	60.6	51.2	31.1
IA3024	59.2	47.0	62.5	65.8	59.5	38.1
IA3048 (SCN)	55.8	22.8	56.9	57.3	56.4	37.2
IA4005	59.3	33.6	65.8	66.4	60.1	39.0
AR12-228017	55.7	25.8	63.9	65.1	47.2	32.2
AR12-228108	54.3	36.8	59.1	63.5	50.3	35.2
AR12-228120	54.3	39.8	52.5	59.0	51.6	38.8
AR12-228145	54.9	38.8	61.7	68.8	49.9	29.3
AR12-328003	52.9	32.2	55.3	68.8	44.2	37.4
AR12-328006	55.4	35.7	60.6	71.3	53.0	30.1
AR12-328011	54.6	34.0	61.0	63.4	55.5	29.9
AR12-328018	52.1	11.8	53.9	61.9	53.3	30.6
AR12-328020	54.1	27.1	59.1	59.8	49.5	40.3
AR12-328034	52.9	29.0	61.2	67.6	47.2	32.1
AR12-328048	52.5	35.2	52.8	63.6	49.5	32.7
AR12-328074	53.2	36.9	50.1	64.9	54.5	36.4
AR12-328078	51.4	34.2	55.5	66.7	49.4	35.6
AR12-328080	62.1	37.2	67.4	72.1	58.6	44.4
HM10-A012	55.1	48.9	57.6	64.8	51.5	36.2
HM10-W336	58.2	40.7	59.1	70.3	50.6	41.2
HM10-W346	56.5	46.9	55.2	69.3	51.8	34.4
HM11-H031	57.2	38.0	56.0	69.7	58.5	33.6
HM11-W157	56.1	50.0	54.0	66.9	57.5	30.7
HM11-W192	62.8	51.0	64.7	67.1	57.8	44.2
HM11-W193	64.3	54.0	63.7	71.4	61.5	42.4
LG09-7477	60.4	28.7	56.4	67.0	64.5	42.5
LG10-2688	60.8	34.9	52.1	72.9	59.9	45.5
LG10-2983	60.0	46.1	66.5	72.1	48.6	37.8
LG10-3409	54.6	48.4	51.6	64.8	60.9	40.9
LG10-3413	55.1	48.2	52.5	61.3	59.0	44.2
LG11-5120	60.4	34.4	57.5	73.1	66.6	44.7
LG11-6210	62.3	47.5	60.6	71.2	70.7	40.8
LG11-6214	61.5	38.3	65.0	71.1	68.1	38.7
Location Mean		38.2	58.6	66.7	55.4	37.2
C.V. (%)		29.3	8.0	6.2	7.5	10.3
L.S.D. (5%)		22.7	9.6	8.4	6.9	6.2
Row Sp. (In.)		30	30	30	30	30
Rows/Plot		4	4	4	4	4
Reps		2	2	2	2	2

*Data not included in mean.

PRELIMINARY TEST IIIA, 2013

YIELD (bu/a)

Strain	Columbia MO	Goehner NE	Wymore NE	Hoytville OH	South Charleston* OH
IA3023 (III)	42.3	71.2	77.2	40.5	47.8
IA3024	42.6	80.0	79.9	45.0	59.0
IA3048 (SCN)	43.1	81.7	70.7	42.8	55.0
IA4005	43.0	62.7	80.3	57.5	66.6
AR12-228017	46.8	73.5	70.1	46.9	49.5
AR12-228108	42.4	70.1	69.9	44.0	55.9
AR12-228120	34.4	78.7	73.3	46.5	47.0
AR12-228145	44.2	68.2	68.4	48.4	50.9
AR12-328003	34.7	65.0	70.5	47.4	43.6
AR12-328006	41.8	73.4	69.9	43.0	59.4
AR12-328011	43.3	74.6	66.9	41.8	58.1
AR12-328018	36.6	71.8	65.8	43.0	66.6
AR12-328020	42.0	64.5	67.9	49.6	57.0
AR12-328034	38.5	69.3	68.1	39.3	56.5
AR12-328048	42.6	71.7	69.5	37.4	52.6
AR12-328074	33.5	67.6	70.9	48.0	55.9
AR12-328078	40.9	63.6	64.8	34.4	50.7
AR12-328080	49.9	79.0	79.2	46.4	59.3
HM10-A012	35.0	67.9	75.0	52.7	61.6
HM10-W336	36.5	70.7	78.2	59.0	65.5
HM10-W346	38.7	72.6	75.6	54.2	73.8
HM11-H031	31.9	69.6	79.6	59.0	64.3
HM11-W157	36.8	66.6	78.2	57.9	57.3
HM11-W192	44.5	78.3	78.9	67.1	62.3
HM11-W193	47.1	73.4	85.3	69.3	61.9
LG09-7477	47.7	74.8	76.6	54.1	67.0
LG10-2688	56.0	69.6	74.5	56.2	59.7
LG10-2983	42.0	69.1	77.5	66.0	51.5
LG10-3409	36.3	70.3	67.9	44.4	40.7
LG10-3413	44.4	57.7	72.7	49.3	53.5
LG11-5120	46.1	68.1	73.0	54.0	67.0
LG11-6210	50.7	65.8	78.5	60.0	67.8
LG11-6214	48.3	70.7	72.6	57.8	56.3
Location Mean	42.0	70.7	73.6	50.4	57.6
C.V. (%)	12.5	12.5	5.5	12.9	15.6
L.S.D. (5%)	8.6	18.0	8.2	13.2	18.4
Row Sp. (In.)	30	30	30	7.5	15
Rows/Plot	4	4	4	8	6
Reps	3	2	2	2	2

PRELIMINARY TEST IIIA, 2013

YIELD RANK

Strain	Yield Rank	Crawfordsville IA	Urbana IL	Lafayette IN	Manhattan KS	Ottawa KS
IA3023 (III)	24	10	10	30	23	
IA3024	11	8	8	20	9	28
IA3048 (SCN)	16	32	20	33	15	15
IA4005	10	26	3	19	7	18
AR12-228017	17	31	6	21	31	12
AR12-228108	25	19	15	26	25	26
AR12-228120	25	13	29	32	21	22
AR12-228145	21	14	9	12	26	13
AR12-328003	29	27	24	13	33	33
AR12-328006	18	20	13	6	19	17
AR12-328011	23	25	12	27	16	31
AR12-328018	32	33	27	28	18	32
AR12-328020	27	30	15	31	27	30
AR12-328034	29	28	10	14	31	11
AR12-328048	31	21	28	25	27	27
AR12-328074	28	18	33	22	17	25
AR12-328078	33	24	23	18	29	19
AR12-328080	4	17	1	3	11	21
HM10-A012	20	4	18	23	22	3
HM10-W336	12	12	17	9	24	20
HM10-W346	14	9	25	11	20	8
HM11-H031	13	16	22	10	12	23
HM11-W157	15	3	26	17	14	24
HM11-W192	2	2	5	15	13	29
HM11-W193	1	1	7	5	5	4
LG09-7477	7	29	21	16	4	7
LG10-2688	6	22	31	2	8	6
LG10-2983	9	11	2	3	30	1
LG10-3409	22	5	32	23	6	16
LG10-3413	19	6	29	29	10	9
LG11-5120	7	23	19	1	3	4
LG11-6210	3	7	13	7	1	2
LG11-6214	5	15	4	8	2	10
						14

PRELIMINARY TEST IIIA, 2013

YIELD RANK

Strain	Columbia MO	Goehner NE	Wymore NE	Hoytville OH	South Charleston OH
IA3023 (III)	18	14	11	28	30
IA3024	15	2	3	22	15
IA3048 (SCN)	13	1	21	26	23
IA4005	14	32	2	8	5
AR12-228017	7	8	23	19	29
AR12-228108	17	18	24	24	21
AR12-228120	31	4	16	20	31
AR12-228145	11	23	27	16	27
AR12-328003	30	29	22	18	32
AR12-328006	21	9	25	25	13
AR12-328011	12	7	31	27	16
AR12-328018	26	12	32	25	5
AR12-328020	20	30	30	14	18
AR12-328034	24	21	28	29	19
AR12-328048	16	13	26	30	25
AR12-328074	32	26	20	17	21
AR12-328078	22	31	33	31	28
AR12-328080	3	3	5	21	14
HM10-A012	29	25	14	13	11
HM10-W336	27	16	8	5	7
HM10-W346	23	11	13	10	1
HM11-H031	33	20	4	5	8
HM11-W157	25	27	9	6	17
HM11-W192	9	5	6	2	9
HM11-W193	6	10	1	1	10
LG09-7477	5	6	12	11	3
LG10-2688	1	19	15	9	12
LG10-2983	19	22	10	3	26
LG10-3409	28	17	29	23	33
LG10-3413	10	33	18	15	24
LG11-5120	8	24	17	12	3
LG11-6210	2	28	7	4	2
LG11-6214	4	15	19	7	20

PRELIMINARY TEST IIIA, 2013

MATURITY (date)

Strain	Mean 8 Tests	Crawfordsville IA	Urbana IL	Lafayette IN	Manhattan KS	Ottawa KS
IA3023 (III)	9/21	9/24	9/18	9/26	9/18	
IA3024	-0.3	-1	0	-3	4	
IA3048 (SCN)	0.4	2	-2	-2	4	
IA4005	7.1	7	9	8	4	
AR12-228017	-5.3	-4	-7	-6	-3	
AR12-228108	-6.3	-6	-8	-7	-5	
AR12-228120	1.8	4	0	0	-1	
AR12-228145	-6.9	-7	-10	-9	-3	
AR12-328003	-3.1	-3	-4	-5	-2	
AR12-328006	2.1	1	1	1	0	
AR12-328011	-3.4	-1	-4	-4	-2	
AR12-328018	-2.1	-1	-5	-3	0	
AR12-328020	-4.9	-4	-6	-5	-3	
AR12-328034	0.6	1	0	-1	1	
AR12-328048	-5.9	-4	-10	-6	-6	
AR12-328074	-3.0	-3	-7	-1	-2	
AR12-328078	-6.4	-3	-10	-8	-4	
AR12-328080	0.1	0	-2	0	-1	
HM10-A012	2.8	2	2	3	1	
HM10-W336	-0.4	3	1	0	-2	
HM10-W346	0.3	1	-1	0	-1	
HM11-H031	0.0	1	0	0	-2	
HM11-W157	2.8	4	2	4	1	
HM11-W192	3.5	2	5	2	6	
HM11-W193	6.9	5	7	7	8	
LG09-7477	6.0	4	4	5	10	
LG10-2688	3.2	3	0	4	8	
LG10-2983	4.7	3	3	6	9	
LG10-3409	4.9	2	2	6	9	
LG10-3413	2.3	3	2	4	8	
LG11-5120	1.5	2	-1	-1	8	
LG11-6210	3.9	3	2	3	8	
LG11-6214	4.9	3	1	2	7	
Date Planted	5/20	5/22	5/15	5/23	5/22	5/28
Days to Mature	124	125	126	126	119	

PRELIMINARY TEST IIIA, 2013

MATURITY (date)

Strain	Columbia MO	Goehner NE	Wymore NE	Hoytville OH	South Charleston OH
IA3023 (III)	9/19	9/19		9/27	9/19
IA3024	3	1		-1	-5
IA3048 (SCN)	4	-4		1	-1
IA4005	7	8		9	5
AR12-228017	-3	-6		-4	-9
AR12-228108	-4	-9		-5	-8
AR12-228120	6	4		2	0
AR12-228145	-5	-5		-8	-8
AR12-328003	-3	-8		4	-4
AR12-328006	6	4		2	2
AR12-328011	-2	-5		-1	-8
AR12-328018	-0	-3		0	-5
AR12-328020	-3	-6		-6	-6
AR12-328034	1	2		3	-2
AR12-328048	-3	-9		-1	-9
AR12-328074	0	-6		-1	-6
AR12-328078	-4	-8		-7	-8
AR12-328080	4	1		0	-1
HM10-A012	-0	2		6	7
HM10-W336	-1	-4		1	-1
HM10-W346	-2	-1		6	0
HM11-H031	-0	-3		2	3
HM11-W157	3	-2		6	4
HM11-W192	5	2		4	3
HM11-W193	2	10		8	9
LG09-7477	6	7		8	5
LG10-2688	6	2		1	3
LG10-2983	6	1		5	5
LG10-3409	6	6		5	3
LG10-3413	3	-5		3	1
LG11-5120	6	-5		2	1
LG11-6210	6	3		2	5
LG11-6214	6	10		4	6
Date Planted	6/7	5/14	5/18	5/17	5/9
Days to Mature	122	122		133	133

PRELIMINARY TEST IIIA, 2013

LODGING (score)

Strain	Mean 8 Tests	Crawfordsville IA	Urbana IL	Lafayette IN	Manhattan KS	Ottawa KS
IA3023 (III)	1.4	2.0	1.8	1.0	1.5	1.0
IA3024	1.4	1.8	1.8	1.5	1.0	1.0
IA3048 (SCN)	1.5	2.5	2.0	1.0	1.0	1.0
IA4005	1.3	2.0	1.0	2.0	1.0	1.0
AR12-228017	1.6	1.8	1.8	1.5	2.5	1.0
AR12-228108	1.5	2.0	2.3	1.0	1.0	1.0
AR12-228120	1.7	2.0	2.3	1.5	2.0	1.0
AR12-228145	1.3	2.3	1.5	1.0	1.0	1.0
AR12-328003	1.4	1.8	1.8	1.0	1.5	1.0
AR12-328006	1.3	2.3	1.0	1.5	1.0	1.0
AR12-328011	1.4	1.5	1.8	1.5	1.0	1.0
AR12-328018	1.5	1.5	1.8	1.5	1.5	1.0
AR12-328020	1.5	2.3	2.5	1.0	1.0	1.0
AR12-328034	1.4	2.3	1.8	1.0	1.0	1.0
AR12-328048	1.3	2.3	1.3	1.0	1.0	1.0
AR12-328074	1.3	2.3	1.3	1.0	1.0	1.0
AR12-328078	1.4	2.3	1.8	1.0	1.5	1.0
AR12-328080	1.5	2.3	1.5	1.5	1.5	1.0
HM10-A012	1.8	2.0	2.3	1.5	2.0	1.0
HM10-W336	1.6	2.5	3.0	1.0	1.0	1.0
HM10-W346	1.8	2.0	3.0	1.0	2.0	1.0
HM11-H031	1.3	2.3	2.5	1.0	1.0	1.0
HM11-W157	1.4	1.8	2.5	1.0	2.0	1.0
HM11-W192	2.0	2.0	3.3	1.5	2.0	1.0
HM11-W193	2.3	2.0	3.3	2.0	1.5	1.0
LG09-7477	1.7	2.0	2.0	1.5	2.0	1.0
LG10-2688	2.0	2.3	2.8	1.0	2.0	1.0
LG10-2983	2.5	1.8	3.3	1.0	3.5	2.0
LG10-3409	1.9	1.8	2.8	1.0	3.0	1.0
LG10-3413	2.1	1.8	3.3	1.5	2.0	1.0
LG11-5120	1.4	1.5	1.5	1.5	1.5	1.0
LG11-6210	1.5	2.0	1.5	1.5	1.5	1.0
LG11-6214	1.8	2.5	2.0	1.5	1.5	1.0

PRELIMINARY TEST IIIA, 2013

LODGING (score)

Strain	Columbia MO	Goehner NE	Wymore NE	Hoytville OH	South Charleston OH
IA3023 (III)	1.5			1.0	1.3
IA3024	1.5			1.0	1.5
IA3048 (SCN)	1.7			1.0	1.5
IA4005	1.5			1.0	1.0
AR12-228017	1.5			1.0	2.0
AR12-228108	1.8			1.0	2.3
AR12-228120	1.5			1.0	2.0
AR12-228145	1.5			1.0	1.5
AR12-328003	1.8			1.0	1.5
AR12-328006	1.5			1.0	1.0
AR12-328011	1.7			1.0	1.8
AR12-328018	1.5			1.0	2.3
AR12-328020	1.7			1.0	1.8
AR12-328034	1.5			1.0	1.5
AR12-328048	1.5			1.0	1.3
AR12-328074	1.5			1.0	1.3
AR12-328078	1.7			1.0	1.3
AR12-328080	1.5			1.0	1.5
HM10-A012	2.5			1.0	2.0
HM10-W336	1.7			1.0	1.8
HM10-W346	1.7			1.0	2.5
HM11-H031	2 .0			1.0	1.8
HM11-W157	2 .8			1.0	2.0
HM11-W192	3.3			1.0	1.8
HM11-W193	3.2			1.0	4.0
LG09-7477	1.5			1.0	2.3
LG10-2688	2.3			1.0	4.0
LG10-2983	3.3			1.0	3.8
LG10-3409	1.5			1.0	2.8
LG10-3413	2.5			1.0	3.8
LG11-5120	1.5			1.0	1.8
LG11-6210	1.5			1.0	1.8
LG11-6214	1.7			1.0	3.0

PRELIMINARY TEST IIIA, 2013

PLANT HEIGHT (inches)

Strain	Mean 8 Tests	Crawfordsville IA	Urbana IL	Lafayette IN	Manhattan KS	Ottawa KS
IA3023 (III)	32	29	37	34	36	30.5
IA3024	33	32	36	38	37	31.0
IA3048 (SCN)	31	27	35	36	36	29.0
IA4005	31	27	36	33	37	29.5
AR12-228017	33	27	38	36	39	32.0
AR12-228108	31	30	34	35	34	27.5
AR12-228120	37	36	42	44	39	37.0
AR12-228145	30	26	34	35	33	25.5
AR12-328003	37	34	40	44	39	32.5
AR12-328006	27	25	32	32	30	24.0
AR12-328011	31	28	36	35	34	28.5
AR12-328018	32	29	37	37	34	30.0
AR12-328020	32	28	35	36	35	27.0
AR12-328034	32	27	37	35	36	28.0
AR12-328048	28	25	32	33	32	24.5
AR12-328074	31	28	35	36	39	28.5
AR12-328078	30	24	35	34	34	25.0
AR12-328080	31	28	35	34	34	30.5
HM10-A012	36	34	40	41	39	34.5
HM10-W336	34	31	37	39	38	30.0
HM10-W346	35	31	39	38	36	32.0
HM11-H031	35	31	39	39	37	33.0
HM11-W157	39	37	40	45	42	35.5
HM11-W192	37	34	41	41	41	36.5
HM11-W193	37	35	43	40	41	32.0
LG09-7477	36	31	41	41	41	33.5
LG10-2688	37	32	41	41	43	34.0
LG10-2983	43	39	53	47	43	44.5
LG10-3409	38	35	40	44	43	39.5
LG10-3413	39	34	41	44	45	37.0
LG11-5120	37	31	41	43	39	32.0
LG11-6210	36	30	39	41	41	32.0
LG11-6214	37	32	41	41	41	32.5

PRELIMINARY TEST IIIA, 2013

PLANT HEIGHT (inches)

Strain	Columbia MO	Goehner NE	Wymore NE	Hoytville OH	South Charleston OH
IA3023 (III)	26			27	35
IA3024	29			24	35
IA3048 (SCN)	27			26	35
IA4005	28			28	31
AR12-228017	32			28	32
AR12-228108	29			29	35
AR12-228120	30			34	39
AR12-228145	27			28	32
AR12-328003	34			32	39
AR12-328006	23			26	27
AR12-328011	30			27	34
AR12-328018	27			25	35
AR12-328020	29			30	33
AR12-328034	27			27	36
AR12-328048	26			24	31
AR12-328074	24			25	33
AR12-328078	27			24	34
AR12-328080	27			26	34
HM10-A012	30			33	39
HM10-W336	29			35	37
HM10-W346	29			32	40
HM11-H031	30			33	40
HM11-W157	33			35	43
HM11-W192	29			34	38
HM11-W193	31			36	39
LG09-7477	32			30	41
LG10-2688	32			32	41
LG10-2983	34			36	47
LG10-3409	32			32	41
LG10-3413	33			32	45
LG11-5120	34			33	45
LG11-6210	32			34	36
LG11-6214	33			34	39

PRELIMINARY TEST IIIA, 2013

SEED QUALITY (score)

Strain	Mean 10 Tests	Crawfordsville IA	Urbana IL	Lafayette IN	Manhattan KS	Ottawa KS
IA3023 (III)	1.6	1.0	1.0	1.0	2.0	3.0
IA3024	2.1	2.0	2.0	1.5	2.0	3.0
IA3048 (SCN)	1.7	2.0	1.0	1.0	2.0	3.0
IA4005	1.9	2.0	2.0	2.0	2.0	2.0
AR12-228017	1.7	2.0	1.0	1.5	2.0	2.0
AR12-228108	1.8	2.0	1.0	1.0	3.0	2.0
AR12-228120	1.9	1.0	2.0	1.5	3.0	2.0
AR12-228145	2.0	2.0	1.0	1.0	2.0	2.0
AR12-328003	2.1	3.0	2.0	1.0	3.0	2.0
AR12-328006	1.9	2.0	1.0	1.5	3.0	2.0
AR12-328011	2.0	3.0	2.0	1.5	2.0	2.0
AR12-328018	2.0	3.0	2.0	1.5	2.0	2.0
AR12-328020	1.9	2.0	2.0	1.0	2.0	2.0
AR12-328034	2.0	2.0	2.0	1.0	3.0	3.0
AR12-328048	1.7	2.0	1.0	1.0	2.0	1.0
AR12-328074	1.7	2.0	1.0	1.0	2.0	2.0
AR12-328078	1.6	2.0	1.0	1.0	2.0	1.0
AR12-328080	1.8	2.0	2.0	1.5	2.0	2.0
HM10-A012	1.7	1.0	2.0	1.5	2.0	1.0
HM10-W336	2.0	3.0	2.0	1.0	2.0	2.0
HM10-W346	1.6	1.0	2.0	1.0	2.0	1.0
HM11-H031	1.7	2.0	2.0	1.0	2.0	1.0
HM11-W157	1.6	2.0	1.0	1.0	2.0	1.0
HM11-W192	2.0	2.0	2.0	1.5	3.0	2.0
HM11-W193	2.0	2.0	2.0	2.0	3.0	3.0
LG09-7477	1.4	1.0	1.0	1.5	2.0	1.0
LG10-2688	1.8	2.0	1.0	1.0	2.0	2.0
LG10-2983	2.0	3.0	2.0	1.0	3.0	2.0
LG10-3409	1.8	1.0	3.0	1.0	2.0	1.0
LG10-3413	1.8	2.0	2.0	1.5	2.0	2.0
LG11-5120	1.4	2.0	1.0	1.5	2.0	1.0
LG11-6210	1.6	2.0	1.0	1.5	2.0	1.0
LG11-6214	1.6	2.0	1.0	1.5	2.0	1.0

PRELIMINARY TEST IIIA, 2013

SEED QUALITY (score)

Strain	Columbia MO	Goehner NE	Wymore NE	Hoytville OH	South Charleston OH
IA3023 (III)	1.5	1.0	2.0	1.0	2.0
IA3024	2.3	3.0	2.0	1.0	2.0
IA3048 (SCN)	1.0	1.0	2.0	1.0	2.5
IA4005	1.7	2.0	2.0	1.0	2.0
AR12-228017	1.5	1.0	3.0	1.0	2.0
AR12-228108	1.5	2.0	2.0	1.0	2.0
AR12-228120	1.7	2.0	2.0	1.0	3.0
AR12-228145	2.0	3.0	3.0	1.0	2.5
AR12-328003	1.5	2.0	3.0	1.0	2.5
AR12-328006	2.2	2.0	2.0	1.0	2.5
AR12-328011	1.3	2.0	3.0	1.0	2.5
AR12-328018	1.5	2.0	2.0	1.0	2.5
AR12-328020	1.5	2.0	2.0	1.0	3.0
AR12-328034	1.5	2.0	2.0	1.0	2.5
AR12-328048	1.5	2.0	2.0	1.0	3.0
AR12-328074	1.7	2.0	2.0	1.0	2.5
AR12-328078	1.5	2.0	2.0	1.0	2.5
AR12-328080	1.5	2.0	2.0	1.0	2.0
HM10-A012	1.5	2.0	2.0	1.0	2.5
HM10-W336	1.8	2.0	2.0	1.0	3.0
HM10-W346	1.5	2.0	1.0	1.0	3.0
HM11-H031	1.5	2.0	1.0	1.0	3.0
HM11-W157	2.0	2.0	1.0	1.0	3.0
HM11-W192	2.3	1.0	2.0	1.0	3.0
HM11-W193	1.5	1.0	2.0	1.0	2.0
LG09-7477	1.5	2.0	1.0	1.0	2.0
LG10-2688	2.0	2.0	2.0	1.0	3.0
LG10-2983	1.5	2.0	2.0	1.0	2.5
LG10-3409	2.0	3.0	2.0	1.0	2.0
LG10-3413	1.5	2.0	2.0	1.0	2.0
LG11-5120	1.5	1.0	1.0	1.0	2.0
LG11-6210	1.5	2.0	2.0	1.0	2.0
LG11-6214	1.5	2.0	1.0	1.0	3.0

PRELIMINARY TEST IIIA, 2013

SEED SIZE (g/100)

Strain	Mean 10 Tests	Crawfordsville IA	Urbana IL	Lafayette IN	Manhattan KS	Ottawa KS
IA3023 (III)	15.3	15.3	13.8	14.7	16.0	17.0
IA3024	15.6	14.0	15.5	16.5	12.0	17.1
IA3048 (SCN)	14.4	14.5	12.9	14.6	14.6	14.5
IA4005	14.2	14.8	13.1	14.4	14.8	15.5
AR12-228017	14.7	13.9	14.0	13.7	16.1	15.3
AR12-228108	14.1	12.8	12.6	14.0	14.5	15.6
AR12-228120	14.4	12.5	13.7	14.7	14.3	14.4
AR12-228145	15.4	13.3	15.2	14.5	16.4	17.6
AR12-328003	15.9	15.6	14.2	15.4	17.2	17.0
AR12-328006	14.7	14.6	13.3	14.1	14.2	15.6
AR12-328011	12.0	13.5	10.2	11.0	13.2	13.3
AR12-328018	14.1	15.1	11.3	13.6	14.8	13.8
AR12-328020	16.2	13.9	16.2	16.7	17.6	17.4
AR12-328034	13.8	13.7	12.5	14.1	13.9	14.4
AR12-328048	14.4	14.0	12.7	13.9	14.3	16.1
AR12-328074	15.4	13.9	13.7	15.9	16.4	17.6
AR12-328078	14.7	13.8	13.2	12.8	16.0	17.0
AR12-328080	15.4	13.3	14.3	15.1	15.9	16.4
HM10-A012	14.6	14.3	13.6	15.7	14.2	13.8
HM10-W336	14.9	14.3	11.9	15.7	16.1	16.9
HM10-W346	14.9	14.0	12.5	15.1	15.3	15.8
HM11-H031	14.9	14.4	13.3	16.6	13.8	15.1
HM11-W157	15.2	14.5	13.0	16.6	15.4	15.5
HM11-W192	17.9	16.4	18.2	18.4	16.7	18.5
HM11-W193	17.7	16.1	16.9	18.0	17.0	19.2
LG09-7477	14.5	14.1	12.4	14.8	13.9	14.4
LG10-2688	15.7	15.3	12.1	15.6	17.1	17.6
LG10-2983	17.9	16.7	17.4	18.3	18.7	16.8
LG10-3409	14.4	12.9	12.6	15.4	15.0	13.7
LG10-3413	14.5	13.2	13.1	15.2	14.9	13.9
LG11-5120	13.9	12.7	11.8	14.9	14.5	14.0
LG11-6210	13.6	12.9	12.0	14.3	14.0	13.2
LG11-6214	13.7	12.3	12.7	15.0	12.9	13.3

PRELIMINARY TEST IIIA, 2013

SEED SIZE (g/100)

Strain	Columbia MO	Goehner NE	Wymore NE	Hoytville OH	South Charleston OH
IA3023 (III)	13.2	14.5	18.0	15.7	15.4
IA3024	13.6	16.4	18.6	15.6	16.4
IA3048 (SCN)	12.4	13.6	17.7	14.8	14.1
IA4005	12.3	13.2	15.8	13.3	15.3
AR12-228017	12.7	14.4	18.6	14.6	13.6
AR12-228108	12.5	12.5	18.2	13.9	14.9
AR12-228120	11.6	15.2	17.0	15.1	15.2
AR12-228145	12.5	15.4	19.0	14.5	15.7
AR12-328003	11.7	15.4	20.3	15.4	16.5
AR12-328006	13.2	14.7	18.4	13.8	15.0
AR12-328011	10.3	11.6	14.9	11.8	10.8
AR12-328018	12.1	14.4	16.9	15.2	13.6
AR12-328020	13.2	15.2	19.2	15.6	16.9
AR12-328034	11.0	13.3	16.3	14.3	14.3
AR12-328048	12.9	13.9	18.2	13.8	14.6
AR12-328074	12.6	14.9	19.2	15.0	15.2
AR12-328078	11.9	14.2	20.0	13.1	15.2
AR12-328080	12.9	15.4	17.6	15.4	17.5
HM10-A012	11.5	13.8	18.1	15.6	15.6
HM10-W336	11.5	14.7	18.5	14.3	15.6
HM10-W346	12.5	14.6	18.5	14.9	16.1
HM11-H031	12.2	14.4	17.6	16.8	15.0
HM11-W157	11.4	15.2	17.4	17.0	15.9
HM11-W192	15.0	17.1	22.3	18.8	18.1
HM11-W193	15.1	16.6	21.0	18.7	18.5
LG09-7477	12.8	14.5	18.0	15.6	15.0
LG10-2688	13.8	14.3	18.5	16.4	16.0
LG10-2983	14.5	16.2	21.7	19.0	19.5
LG10-3409	13.1	14.4	16.7	15.1	15.2
LG10-3413	12.8	13.2	17.9	15.2	15.4
LG11-5120	12.3	14.2	16.1	13.3	15.6
LG11-6210	11.7	13.5	16.1	14.0	14.1
LG11-6214	11.9	13.5	15.9	14.4	15.4

PRELIMINARY TEST IIIA, 2013

PROTEIN (%)

Strain	Mean 4 Tests	Urbana IL	Columbia MO	Goehner NE	Wymore NE
IA3023 (III)	34.5	32.6	35.5	34.2	35.5
IA3024	34.6	32.8	34.3	35.3	35.9
IA3048 (SCN)	35.7	33.7	36.2	36.1	37.0
IA4005	35.4	33.7	36.1	35.4	36.2
AR12-228017	35.0	33.4	35.4	34.9	36.4
AR12-228108	36.5	34.7	36.7	36.9	37.7
AR12-228120	35.3	34.0	34.7	35.5	37.0
AR12-228145	35.2	33.6	35.9	35.1	36.3
AR12-328003	35.7	33.7	37.0	35.2	36.8
AR12-328006	36.5	35.2	37.4	36.0	37.3
AR12-328011	34.8	32.9	34.8	35.5	36.2
AR12-328018	34.3	32.1	35.1	34.2	35.9
AR12-328020	36.5	35.0	36.9	36.2	37.8
AR12-328034	35.2	33.3	36.5	34.6	36.3
AR12-328048	35.6	34.3	36.0	35.8	36.3
AR12-328074	35.8	34.1	36.0	35.6	37.4
AR12-328078	35.0	32.7	35.8	35.2	36.4
AR12-328080	34.7	32.8	35.0	35.3	35.7
HM10-A012	36.9	34.7	38.2	36.6	38.0
HM10-W336	35.1	33.3	35.9	34.8	36.4
HM10-W346	34.9	33.3	35.8	34.3	36.2
HM11-H031	36.0	34.8	37.2	35.8	36.2
HM11-W157	36.3	34.7	37.0	36.1	37.4
HM11-W192	37.7	36.4	38.5	37.1	38.8
HM11-W193	36.4	34.7	37.9	36.2	36.9
LG09-7477	35.6	33.3	36.2	35.7	37.1
LG10-2688	34.7	32.7	35.4	34.7	36.2
LG10-2983	36.6	34.6	37.4	37.4	37.1
LG10-3409	35.7	33.5	36.5	35.6	37.1
LG10-3413	35.7	32.9	36.5	36.4	37.0
LG11-5120	35.4	33.6	35.7	35.5	36.9
LG11-6210	35.8	34.2	36.3	35.6	37.1
LG11-6214	35.8	34.3	36.5	35.6	36.9

PRELIMINARY TEST IIIA, 2013

OIL (%)

Strain	Mean 4 Tests	Urbana IL	Columbia MO	Goehner NE	Wymore NE
IA3023 (III)	19.7	20.5	19.6	19.4	19.2
IA3024	19.8	20.5	20.0	19.4	19.3
IA3048 (SCN)	19.0	19.9	18.9	18.6	18.7
IA4005	19.2	20.0	19.0	18.8	18.8
AR12-228017	19.6	20.1	19.3	19.4	19.5
AR12-228108	19.0	19.7	19.1	18.2	19.0
AR12-228120	18.7	19.1	19.2	18.3	18.1
AR12-228145	19.5	19.9	19.7	19.0	19.4
AR12-328003	19.1	20.2	18.2	19.0	19.0
AR12-328006	19.2	19.5	19.1	19.2	18.8
AR12-328011	19.6	20.2	19.6	19.1	19.4
AR12-328018	19.6	20.1	19.8	19.4	19.2
AR12-328020	19.1	19.8	18.7	18.9	18.9
AR12-328034	19.5	20.6	18.6	19.4	19.6
AR12-328048	19.8	19.8	19.9	19.3	20.1
AR12-328074	19.4	19.8	19.6	19.2	19.1
AR12-328078	19.9	20.7	19.7	19.7	19.5
AR12-328080	20.2	21.0	20.0	19.8	19.7
HM10-A012	18.1	19.3	17.1	17.9	18.1
HM10-W336	19.4	19.9	19.0	19.4	19.1
HM10-W346	19.4	19.8	19.3	19.6	19.2
HM11-H031	18.5	18.9	17.9	18.6	18.7
HM11-W157	19.0	20.0	18.4	18.9	18.7
HM11-W192	18.5	19.5	18.0	18.3	18.3
HM11-W193	18.9	20.2	18.1	18.8	18.7
LG09-7477	18.4	19.5	18.0	18.0	17.9
LG10-2688	18.8	19.4	18.9	18.3	18.6
LG10-2983	18.9	20.3	18.2	18.4	18.8
LG10-3409	19.0	19.9	18.5	18.9	18.5
LG10-3413	19.3	20.6	18.8	18.6	19.3
LG11-5120	18.9	19.6	19.1	18.5	18.3
LG11-6210	18.9	19.7	18.9	18.5	18.3
LG11-6214	18.3	19.3	18.2	18.1	17.6

Preliminary Test IIIB, 2013

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.	IA4005	IA3023 x IA3025	Fehr	F4	
5.	LD10-776	LD04-8782 x LD04-13296	Diers	F5	SCN
6.	LD10- 2477	LD04-13296 x LD05-3230	Diers	F5	SCN
7.	LD10- 9110	LD06-7648 x LD02-4485	Diers	F5	SCN
8.	LD10- 9168	LD06-7648 x LD02-4485	Diers	F5	SCN
9.	LD10- 9200	LD06-7648 x LD02-4485	Diers	F5	SCN
10.	LD10-10150	LD05-3230 x LD00-3309	Diers	F5	SCN
11.	LD10-10213	LD05-3230 x LD00-3309	Diers	F5	SCN
12.	LD10-10226	LD05-3230 x LD00-3309	Diers	F5	SCN
13.	LD10-11740	SS03-5354 x LD01-7323	Diers	F5	SCN
14.	LD10-30004	LD05-16657 x LDX08-210a	Diers	F4	Rag 1+2, SCN
15.	LD10-30019	LD05-16657 x LDX08-210a	Diers	F4	Rag 1+2, SCN
16.	U11-605110	Sheyenne x LD04-11056	Graef	F6	SCN, Rps1k
17.	U11-615157	U03-100612 x LD04-11056	Graef	F5	SCN
18.	U11-616086	U02-242055 x LD02-4485	Graef	F6	SCN, Rps1k
19.	U11-616111	U02-242055 x LD02-4485	Graef	F6	SCN, Rps1k
20.	U11-621085	U03-300134 x LD02-7222P	Graef	F6	SCN, Rps1k
21.	U11-622148	U02-242055 x LD04-13265	Graef	F6	SCN, Rps1k
22.	U11-623105	U03-300134 x LD02-7222P	Graef	F6	SCN, Rps1k
23.	U11-628132	LG04-6005 x LD02-4485	Graef	F6	Diversity, SCN
24.	U11-629113	LG04-6005 x LD02-4485	Graef	F6	Diversity, SCN
25.	U11-630092	LG04-6000 x U03-300134	Graef	F6	Diversity, Rps1k
26.	U11-641122	LG00-3372 x LG94-1128	Graef	F7	Diversity
27.	U11-649117	U02-242055 x LD04-13265	Graef	F6	SCN, Rps1k

PRELIMINARY TEST IIIB, 2013

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	Shattering Score Manhattan KS	Green Stem Score S. Charleston OH
IA3023 (III)	WLtTDYBlI	2.0	1.5
IA3024	PGTDYIbI	4.0	1.5
IA3048 (SCN)	WGBIYYI	2.0	1.0
IA4005	WTTDYBlI	2.0	3.0
LD10-776	WLtTDYBlI	1.0	2.0
LD10- 2477	PGBDYG+IbII	2.0	1.0
LD10- 9110	PTBDYLbrI	4.0	1.0
LD10- 9168	PTBDYLblI	3.0	3.0
LD10- 9200	PTBDYBlI	2.0	2.0
LD10-10150	PGBDYIBI	3.0	1.0
LD10-10213	PGBDYGI	3.0	2.5
LD10-10226	PGBDYG+IbI	2.0	2.5
LD10-11740	PGTDYBfI	4.0	2.5
LD10-30004	WTTDYBlI	2.0	3.0
LD10-30019	PTTDYBlI	4.0	1.5
U11-605110	PTBDYGI	2.0	1.0
U11-615157	WTBDYBlI	2.0	1.0
U11-616086	WTBDYYI	3.0	2.0
U11-616111	WGBDYLbfI	3.0	2.0
U11-621085	PTBDYBlI	2.0	1.0
U11-622148	PLtBDYGI	4.0	1.5
U11-623105	PLtBDYBlI	4.0	1.0
U11-628132	PGBDYIbI	4.0	1.5
U11-629113	PLtBDYBlI	4.0	1.5
U11-630092	WGBDYBlI	4.0	2.0
U11-641122	PTBDYBrI	2.0	1.0
U11-649117	PLtTDYGI	4.0	2.0

PRELIMINARY TEST IIIB, 2013

REGIONAL SUMMARY

					Plant	Seed	Seed	Composition	
	Yield	Rank	Maturity	Lodging	Height	Quality	Size	Protein	Oil
No. of Tests	10	10	8	8	8	10	10	4	4
Strain	bu/a	No.	Date	Score	In.	Score	g/100	%	%
IA3023 (III)	54.6	20	9/20	1.5	33	1.6	15.9	34.7	19.7
IA3024	58.5	13	-0.0	1.4	32	2.0	16.0	34.7	19.7
IA3048 (SCN)	55.9	17	0.1	1.5	32	1.7	14.2	35.9	19.1
IA4005	60.6	5	6.9	1.2	31	1.7	14.4	35.5	19.3
LD10-776	55.1	18	0.9	1.2	29	1.9	14.4	35.5	19.3
LD10- 2477	60.8	4	-0.7	1.3	33	2.1	16.3	34.7	20.2
LD10- 9110	58.6	12	-0.4	1.5	33	1.7	14.0	34.5	19.6
LD10- 9168	61.9	1	2.4	1.9	35	1.9	14.0	34.9	19.1
LD10- 9200	60.3	6	0.8	1.4	33	1.5	13.7	35.6	18.8
LD10-10150	57.8	14	-1.5	1.2	32	1.7	14.1	35.6	19.3
LD10-10213	59.1	10	-2.6	1.3	33	1.7	14.9	35.9	19.2
LD10-10226	61.0	3	-2.0	1.2	32	2.0	15.5	36.0	19.3
LD10-11740	54.1	22	-0.5	1.3	30	2.1	15.6	35.6	19.8
LD10-30004	51.7	26	2.7	1.6	34	1.6	12.5	35.7	19.1
LD10-30019	51.5	27	2.0	2.3	34	1.8	13.5	35.1	18.5
U11-605110	52.1	25	-0.7	1.3	29	2.1	14.5	34.6	19.2
U11-615157	56.1	16	-3.4	1.4	32	1.8	14.7	35.1	19.4
U11-616086	61.6	2	0.3	1.5	34	1.6	14.4	34.5	19.5
U11-616111	59.5	7	1.3	1.7	32	2.0	15.2	34.9	19.9
U11-621085	53.1	23	-2.4	1.3	31	2.0	14.6	34.8	19.6
U11-622148	59.2	9	1.6	1.3	34	1.8	15.4	35.0	19.7
U11-623105	54.4	21	-2.7	1.3	30	1.8	13.9	34.5	20.0
U11-628132	56.8	15	-0.4	1.4	36	2.0	13.1	34.3	18.9
U11-629113	58.8	11	0.2	1.8	36	1.8	13.5	34.7	19.1
U11-630092	55.0	19	-0.4	1.4	31	1.7	14.4	35.2	19.5
U11-641122	53.0	24	0.3	1.1	33	1.6	13.0	36.1	18.8
U11-649117	59.4	8	3.7	1.6	34	2.1	14.7	35.9	19.4

123.3 Days After Planting

PRELIMINARY TEST IIIB, 2013

YIELD (bu/a)

Strain	Mean 10 Tests	Crawfordsville IA	Urbana IL	Lafayette IN	Manhattan KS	Ottawa KS
IA3023 (III)	54.6	50.8	60.0	62.9	51.2	31.1
IA3024	58.5	45.4	57.7	58.1	59.5	38.1
IA3048 (SCN)	55.9	38.1	57.0	66.2	56.4	37.2
IA4005	60.6	51.2	66.6	68.0	60.1	39.0
LD10-776	55.1	36.6	70.0	67.2	59.9	33.8
LD10- 2477	60.8	42.4	69.7	76.2	56.5	39.2
LD10- 9110	58.6	45.5	67.4	68.7	54.1	32.5
LD10- 9168	61.9	56.9	67.0	67.7	55.1	35.1
LD10- 9200	60.3	49.9	69.5	74.4	50.4	37.3
LD10-10150	57.8	36.6	66.1	69.7	55.3	33.0
LD10-10213	59.1	44.5	62.5	75.7	51.9	33.3
LD10-10226	61.0	44.3	69.5	75.6	48.2	32.3
LD10-11740	54.1	34.4	63.9	64.0	53.2	27.5
LD10-30004	51.7	35.1	55.3	60.8	50.7	35.1
LD10-30019	51.5	37.7	56.9	65.2	51.2	26.4
U11-605110	52.1	42.3	57.1	60.7	52.9	31.4
U11-615157	56.1	36.4	58.8	65.0	56.7	38.8
U11-616086	61.6	45.4	61.1	68.8	58.0	37.4
U11-616111	59.5	49.5	63.5	69.2	53.9	38.4
U11-621085	53.1	40.5	56.5	67.1	52.5	30.7
U11-622148	59.2	40.7	68.4	68.6	64.0	32.6
U11-623105	54.4	42.5	63.2	62.1	55.7	29.3
U11-628132	56.8	46.9	54.2	63.8	58.8	34.5
U11-629113	58.8	42.5	55.7	66.6	54.7	37.3
U11-630092	55.0	50.0	59.2	60.8	50.3	31.0
U11-641122	53.0	23.9	56.2	59.7	54.0	34.8
U11-649117	59.4	45.4	65.1	63.5	62.1	40.8
Location Mean		42.8	62.2	66.5	55.1	34.4
C.V. (%)		12.2	5.7	5.1	7.5	10.3
L.S.D. (5%)		10.4	7.3	7.0	6.9	6.2
Row Sp. (In.)		30	30	30	30	30
Rows/Plot		4	4	4	4	4
Reps		2	2	2	2	2

*Data not included in mean.

PRELIMINARY TEST IIIB, 2013

YIELD (bu/a)

Strain	Columbia MO	Goehner NE	Wymore NE	Hoytville OH	South Charleston OH
IA3023 (III)	40.0	65.0	79.2	47.7	57.9
IA3024	46.9	71.6	83.9	61.6	62.4
IA3048 (SCN)	41.7	75.7	76.4	52.1	58.5
IA4005	41.3	68.1	84.7	58.1	68.6
LD10-776	38.8	60.3	76.4	54.3	53.5
LD10- 2477	56.7	66.0	74.3	67.9	59.2
LD10- 9110	48.5	61.7	78.6	59.7	69.1
LD10- 9168	54.1	71.7	82.4	61.8	67.3
LD10- 9200	45.3	70.0	79.1	66.7	60.2
LD10-10150	45.2	68.5	83.3	56.7	63.6
LD10-10213	52.9	76.7	74.8	63.0	55.2
LD10-10226	60.6	75.7	79.1	70.6	54.5
LD10-11740	48.3	69.0	70.7	51.4	58.4
LD10-30004	46.0	54.4	71.3	58.1	50.1
LD10-30019	43.2	61.9	63.1	54.3	55.1
U11-605110	32.7	66.8	76.3	43.3	57.2
U11-615157	39.2	68.4	82.2	54.9	60.6
U11-616086	51.9	77.2	80.6	63.1	72.1
U11-616111	49.0	75.9	77.7	54.4	63.6
U11-621085	39.9	69.6	73.3	50.6	50.6
U11-622148	47.6	73.3	78.9	64.1	54.1
U11-623105	39.9	65.1	78.8	48.3	59.2
U11-628132	48.4	72.0	81.2	56.1	52.3
U11-629113	44.2	77.7	83.3	67.1	58.6
U11-630092	43.9	70.6	72.6	55.2	56.5
U11-641122	46.9	62.9	73.8	53.6	63.8
U11-649117	43.4	73.3	81.0	54.7	64.4
Location Mean	45.8	69.2	77.7	57.4	59.5
C.V. (%)	12.5	7.3	5.8	7.1	12.2
L.S.D. (5%)	9.4	10.4	9.2	8.4	15.0
Row Sp. (In.)	30	30	30	7.5	15
Rows/Plot	4	4	4	8	6
Reps	3	2	2	2	2

*Data not included in mean.

PRELIMINARY TEST IIIB, 2013

YIELD RANK

Strain	Yield Rank	Crawfordsville IA	Urbana IL	Lafayette IN	Manhattan KS	Ottawa KS
IA3023 (III)	20	3	16	21	22	22
IA3024	13	9	19	27	5	6
IA3048 (SCN)	17	20	21	15	10	10
IA4005	5	2	8	10	3	3
LD10-776	18	24	1	12	4	15
LD10- 2477	4	16	2	1	9	2
LD10- 9110	12	8	6	8	15	19
LD10- 9168	1	1	7	11	13	11
LD10- 9200	6	5	3	4	25	8
LD10-10150	14	23	9	5	12	17
LD10-10213	10	12	14	2	21	16
LD10-10226	3	13	3	3	27	20
LD10-11740	22	27	11	18	18	26
LD10-30004	26	26	26	23	24	11
LD10-30019	27	22	22	16	22	27
U11-605110	25	17	20	25	19	21
U11-615157	16	25	18	17	8	4
U11-616086	2	10	15	7	7	7
U11-616111	7	6	12	6	17	5
U11-621085	23	19	23	13	20	24
U11-622148	9	18	5	9	1	18
U11-623105	21	15	13	22	11	25
U11-628132	15	7	27	19	6	14
U11-629113	11	14	25	14	14	8
U11-630092	19	4	17	23	26	23
U11-641122	24	30	24	26	16	13
U11-649117	8	11	10	20	2	1

PRELIMINARY TEST IIIB, 2013

YIELD RANK

Strain	Columbia MO	Goehner NE	Wymore NE	Hoytville OH	South Charleston OH
IA3023 (III)	22	22	10	24	17
IA3024	12	11	2	9	9
IA3048 (SCN)	20	6	17	20	15
IA4005	21	18	1	11	3
LD10-776	26	26	18	18	24
LD10- 2477	2	20	21	2	12
LD10- 9110	7	25	15	10	2
LD10- 9168	3	10	5	8	4
LD10- 9200	14	13	11	4	11
LD10-10150	15	16	4	12	7
LD10-10213	4	3	20	7	20
LD10-10226	1	5	12	1	22
LD10-11740	9	15	26	21	16
LD10-30004	13	27	25	11	27
LD10-30019	19	24	27	18	21
U11-605110	27	19	19	25	18
U11-615157	25	17	6	15	10
U11-616086	5	2	9	6	1
U11-616111	6	4	16	17	7
U11-621085	23	14	23	22	26
U11-622148	10	8	13	5	23
U11-623105	24	21	14	23	12
U11-628132	8	9	7	13	25
U11-629113	16	1	3	3	14
U11-630092	17	12	24	14	19
U11-641122	11	23	22	19	6
U11-649117	18	7	8	16	5

PRELIMINARY TEST IIIB, 2013

MATURITY (date)

Strain	Mean 8 Tests	Crawfordsville IA	Urbana IL	Lafayette IN	Manhattan KS	Ottawa KS
IA3023 (III)	9/20	9/23	9/17	9/27	9/18	
IA3024	-0.0	1	-4	-3	4	
IA3048 (SCN)	0.1	2	-2	-2	4	
IA4005	6.9	3	8	7	4	
LD10-776	0.9	2	1	-3	4	
LD10- 2477	-0.7	2	-2	-2	3	
LD10- 9110	-0.4	1	1	-2	-1	
LD10- 9168	2.4	2	2	0	4	
LD10- 9200	0.8	2	1	-1	-1	
LD10-10150	-1.5	2	-2	-3	-2	
LD10-10213	-2.6	1	-3	-5	-5	
LD10-10226	-2.0	0	-3	-4	-2	
LD10-11740	-0.5	1	0	-2	2	
LD10-30004	2.7	4	4	1	3	
LD10-30019	2.0	2	2	2	5	
U11-605110	-0.7	1	-5	-4	4	
U11-615157	-3.4	-2	-6	-6	1	
U11-616086	0.3	1	-2	-2	1	
U11-616111	1.3	3	-2	-1	5	
U11-621085	-2.4	-3	-7	-6	3	
U11-622148	1.6	2	0	-3	6	
U11-623105	-2.7	-2	-6	-4	2	
U11-628132	-0.4	-2	-5	-3	2	
U11-629113	0.2	2	-4	-2	2	
U11-630092	-0.4	-3	-5	-3	2	
U11-641122	0.3	2	-1	-1	1	
U11-649117	3.7	4	3	1	6	
Date Planted	5/20	5/22	5/15	5/23	5/22	5/28
Days to Mature	123	124	125	127	119	

PRELIMINARY TEST IIIB, 2013

MATURITY (date)

Strain	Columbia MO	Goehner NE	Wymore NE	Hoytville OH	South Charleston OH
IA3023 (III)	9/18	9/18		9/27	9/19
IA3024	6	1		0	-4
IA3048 (SCN)	3	-2		-1	-1
IA4005	8	10		8	7
LD10-776	7	1		-1	-3
LD10- 2477	7	-5		-1	-7
LD10- 9110	1	-4		2	-2
LD10- 9168	4	1		2	5
LD10- 9200	4	0		0	1
LD10-10150	3	-5		0	-4
LD10-10213	1	-6		-4	-1
LD10-10226	5	-6		-2	-5
LD10-11740	1	-3		0	-2
LD10-30004	6	-1		2	3
LD10-30019	5	1		-1	1
U11-605110	5	0		-1	-5
U11-615157	2	-7		-2	-6
U11-616086	3	-4		3	2
U11-616111	7	-2		1	0
U11-621085	1	-4		-2	-2
U11-622148	7	0		1	1
U11-623105	2	-5		-1	-8
U11-628132	5	-1		1	-1
U11-629113	6	0		0	-1
U11-630092	4	1		-1	2
U11-641122	7	-4		1	-3
U11-649117	7	4		4	2
Date Planted	6/7	5/14	5/18	5/17	5/9
Days to Mature	103	127		133	133

PRELIMINARY TEST IIIB, 2013

LODGING (score)

Strain	Mean 8 Tests	Crawfordsville IA	Urbana IL	Lafayette IN	Manhattan KS	Ottawa KS
IA3023 (III)	1.5	2.0	1.8	1.3	1.5	1.0
IA3024	1.4	1.8	2.0	1.0	1.0	1.0
IA3048 (SCN)	1.5	2.0	2.0	2.0	1.0	1.0
IA4005	1.2	1.5	1.5	1.0	1.0	1.0
LD10-776	1.2	1.8	1.3	1.0	1.0	1.0
LD10- 2477	1.3	1.8	1.5	1.5	1.0	1.0
LD10- 9110	1.5	2.0	2.0	2.0	1.0	1.0
LD10- 9168	1.9	2.3	2.8	2.3	2.0	1.1
LD10- 9200	1.4	1.8	1.8	1.3	1.0	1.0
LD10-10150	1.2	1.5	1.0	1.3	1.0	1.0
LD10-10213	1.3	1.8	1.8	1.0	1.0	1.0
LD10-10226	1.2	1.5	1.3	1.0	1.0	1.0
LD10-11740	1.3	2.0	1.3	1.0	1.0	1.0
LD10-30004	1.6	2.3	2.5	1.3	2.0	1.0
LD10-30019	2.3	1.8	3.3	2.0	3.0	1.0
U11-605110	1.3	2.0	1.5	1.0	1.0	1.0
U11-615157	1.4	2.3	1.5	1.0	1.5	1.0
U11-616086	1.5	1.8	2.0	1.3	1.5	1.0
U11-616111	1.7	2.5	2.3	1.8	1.5	1.0
U11-621085	1.3	2.3	1.3	1.0	1.0	1.0
U11-622148	1.3	2.3	1.3	1.0	1.0	1.0
U11-623105	1.3	1.8	1.5	1.0	1.0	1.0
U11-628132	1.4	1.5	2.3	1.8	2.0	1.0
U11-629113	1.8	2.3	2.5	1.5	2.0	1.0
U11-630092	1.4	2.0	1.8	1.0	1.0	1.0
U11-641122	1.1	1.8	1.5	1.0	1.0	1.0
U11-649117	1.6	2.3	1.5	1.5	2.0	1.0

PRELIMINARY TEST IIIB, 2013

LODGING (score)

Strain	Columbia MO	Goehner NE	Wymore NE	Hoytville OH	South Charleston OH
IA3023 (III)	1.5			1.0	1.5
IA3024	1.5			1.0	1.8
IA3048 (SCN)	1.5			1.0	1.3
IA4005	1.5			1.0	1.3
LD10-776	1.5			1.0	1.0
LD10- 2477	1.5			1.0	1.5
LD10- 9110	1.5			1.0	1.8
LD10- 9168	1.7			1.0	1.8
LD10- 9200	1.7			1.0	1.5
LD10-10150	1.5			1.0	1.3
LD10-10213	1.5			1.0	1.5
LD10-10226	1.5			1.0	1.5
LD10-11740	1.5			1.0	1.3
LD10-30004	1.5			1.0	1.3
LD10-30019	2.3			1.0	3.8
U11-605110	1.5			1.0	1.3
U11-615157	1.5			1.0	1.5
U11-616086	1.5			1.0	1.8
U11-616111	1.5			1.0	1.8
U11-621085	1.5			1.0	1.0
U11-622148	1.5			1.0	1.3
U11-623105	1.5			1.0	1.8
U11-628132	1. 7			1.0	1.5
U11-629113	1.7			1.0	2.3
U11-630092	1.5			1.0	1.8
U11-641122	1. 5			1.0	1.5
U11-649117	1.5			1.0	2.0

PRELIMINARY TEST IIIB, 2013

PLANT HEIGHT (inches)

Strain	Mean 8 Tests	Crawfordsville IA	Urbana IL	Lafayette IN	Manhattan KS	Ottawa KS
IA3023 (III)	33	29	39	37	36	31
IA3024	32	30	35	36	37	31
IA3048 (SCN)	32	30	37	36	36	29
IA4005	31	27	34	35	37	30
LD10-776	29	24	36	34	35	27
LD10- 2477	33	29	36	37	36	30
LD10- 9110	33	31	41	38	35	30
LD10- 9168	35	33	39	39	39	31
LD10- 9200	33	29	40	37	37	29
LD10-10150	32	28	37	38	33	29
LD10-10213	33	30	36	37	34	30
LD10-10226	32	27	36	38	34	28
LD10-11740	30	26	33	35	34	25
LD10-30004	34	33	37	38	36	35
LD10-30019	34	33	38	39	38	32
U11-605110	29	26	35	34	34	26
U11-615157	32	27	36	36	36	29
U11-616086	34	31	40	38	38	31
U11-616111	32	30	38	36	35	30
U11-621085	31	27	37	37	38	28
U11-622148	34	30	39	38	39	32
U11-623105	30	26	34	32	32	28
U11-628132	36	32	43	42	40	32
U11-629113	36	32	42	41	39	31
U11-630092	31	26	35	35	36	27
U11-641122	33	28	39	36	38	29
U11-649117	34	30	40	40	40	33

PRELIMINARY TEST IIIB, 2013

PLANT HEIGHT (inches)

Strain	Columbia MO	Goehner NE	Wymore NE	Hoytville OH	South Charleston OH
IA3023 (III)	28			29	35
IA3024	29			28	35
IA3048 (SCN)	29			26	34
IA4005	26			27	32
LD10-776	23			23	29
LD10- 2477	31			29	34
LD10- 9110	29			31	33
LD10- 9168	31			31	37
LD10- 9200	28			28	35
LD10-10150	30			27	35
LD10-10213	32			30	36
LD10-10226	30			29	36
LD10-11740	29			26	32
LD10-30004	32			30	32
LD10-30019	29			29	35
U11-605110	24			24	32
U11-615157	29			30	35
U11-616086	31			27	40
U11-616111	29			26	35
U11-621085	27			25	33
U11-622148	29			28	36
U11-623105	27			25	35
U11-628132	31			31	34
U11-629113	31			34	41
U11-630092	26			27	36
U11-641122	28			30	36
U11-649117	29			26	37

PRELIMINARY TEST IIIB, 2013

SEED QUALITY (score)

Strain	Mean 10 Tests	Crawfordsville IA	Urbana IL	Lafayette IN	Manhattan KS	Ottawa KS
IA3023 (III)	1.6	2.0	1.0	1.5	2.0	2.0
IA3024	2.0	2.0	1.0	2.0	3.0	3.0
IA3048 (SCN)	1.7	2.0	1.0	1.5	2.0	2.0
IA4005	1.7	2.0	1.0	2.0	3.0	1.0
LD10-776	1.9	2.0	1.0	1.5	2.0	3.0
LD10- 2477	2.1	2.0	2.0	1.5	3.0	3.0
LD10- 9110	1.7	1.0	2.0	1.0	2.0	2.0
LD10- 9168	1.9	2.0	1.0	1.0	3.0	2.0
LD10- 9200	1.5	1.0	1.0	1.5	2.0	1.0
LD10-10150	1.7	2.0	2.0	1.5	2.0	1.0
LD10-10213	1.7	2.0	1.0	1.5	2.0	2.0
LD10-10226	2.0	3.0	1.0	1.5	2.0	3.0
LD10-11740	2.1	3.0	1.0	1.5	2.0	3.0
LD10-30004	1.6	2.0	1.0	1.0	2.0	2.0
LD10-30019	1.8	2.0	2.0	1.5	2.0	1.0
U11-605110	2.1	2.0	2.0	1.5	3.0	2.0
U11-615157	1.8	2.0	1.0	1.0	2.0	2.0
U11-616086	1.6	2.0	1.0	1.0	2.0	1.0
U11-616111	2.0	2.0	2.0	1.5	3.0	3.0
U11-621085	2.0	2.0	1.0	1.5	3.0	3.0
U11-622148	1.8	2.0	1.0	1.0	3.0	2.0
U11-623105	1.8	2.0	1.0	1.0	3.0	2.0
U11-628132	2.0	2.0	1.0	1.5	4.0	3.0
U11-629113	1.8	2.0	1.0	1.5	2.0	2.0
U11-630092	1.7	2.0	1.0	1.0	2.0	2.0
U11-641122	1.6	2.0	1.0	2.0	2.0	2.0
U11-649117	2.1	1.0	2.0	1.5	3.0	2.0

PRELIMINARY TEST IIIB, 2013

SEED QUALITY (score)

Strain	Columbia MO	Goehner NE	Wymore NE	Hoytville OH	South Charleston OH
IA3023 (III)	1.5	1.0	2.0	1.0	2.0
IA3024	1.5	2.0	2.0	1.0	2.5
IA3048 (SCN)	1.7	1.0	2.0	1.0	2.5
IA4005	1.8	2.0	1.0	1.0	2.0
LD10-776	2.2	2.0	2.0	1.0	2.0
LD10- 2477	1.7	2.0	2.0	1.0	3.0
LD10- 9110	1.8	2.0	2.0	1.0	2.5
LD10- 9168	1.5	2.0	2.0	1.0	3.0
LD10- 9200	1.0	2.0	2.0	1.0	2.5
LD10-10150	1.5	2.0	2.0	1.0	2.0
LD10-10213	1.8	1.0	2.0	1.0	3.0
LD10-10226	1.8	2.0	2.0	1.0	2.5
LD10-11740	1.5	2.0	3.0	1.0	3.0
LD10-30004	1.5	2.0	1.0	1.0	2.5
LD10-30019	1.5	2.0	2.0	1.0	2.5
U11-605110	1.5	2.0	3.0	1.0	3.0
U11-615157	2.0	2.0	2.0	1.0	3.0
U11-616086	1.7	2.0	2.0	1.0	2.5
U11-616111	1.5	2.0	2.0	1.0	2.0
U11-621085	1.5	2.0	2.0	1.0	2.5
U11-622148	2.2	2.0	1.0	1.0	2.5
U11-623105	1.7	2.0	2.0	1.0	2.0
U11-628132	1. 5	2.0	2.0	1.0	3.0
U11-629113	1.8	2.0	2.0	1.0	2.5
U11-630092	1.5	2.0	2.0	1.0	2.5
U11-641122	1. 5	2.0	2.0	1.0	2.0
U11-649117	2.7	3.0	2.0	1.0	3.0

PRELIMINARY TEST IIIB, 2013

SEED SIZE (g/100)

Strain	Mean 10 Tests	Crawfordsville IA	Urbana IL	Lafayette IN	Manhattan KS	Ottawa KS
IA3023 (III)	15.9	16.0	14.1	14.7	17.1	17.1
IA3024	16.0	14.7	15.4	15.9	17.1	17.4
IA3048 (SCN)	14.2	13.0	13.4	14.2	13.9	15.8
IA4005	14.4	14.0	14.4	14.1	14.3	14.2
LD10-776	14.4	13.3	15.0	14.1	14.9	15.0
LD10- 2477	16.3	15.0	16.6	15.7	17.8	18.1
LD10- 9110	14.0	12.8	13.4	14.3	13.4	15.7
LD10- 9168	14.0	13.0	12.2	14.2	13.7	16.2
LD10- 9200	13.7	12.7	13.0	13.9	14.0	15.2
LD10-10150	14.1	12.8	13.8	13.3	14.8	16.1
LD10-10213	14.9	13.5	12.7	14.3	21.0	15.5
LD10-10226	15.5	13.5	15.7	16.7	14.6	16.9
LD10-11740	15.6	13.8	16.2	16.3	14.3	16.4
LD10-30004	12.5	11.9	11.1	11.9	12.8	13.0
LD10-30019	13.5	12.3	13.1	13.6	14.4	13.0
U11-605110	14.5	13.9	13.0	13.8	15.5	16.4
U11-615157	14.7	14.1	12.6	14.8	15.3	15.9
U11-616086	14.4	13.0	12.9	14.5	15.3	15.0
U11-616111	15.2	13.8	13.5	15.7	16.0	16.7
U11-621085	14.6	13.1	12.8	14.0	14.7	14.7
U11-622148	15.4	14.2	14.8	15.3	16.3	15.8
U11-623105	13.9	13.3	12.5	14.5	14.6	13.2
U11-628132	13.1	13.0	10.7	13.0	13.9	13.1
U11-629113	13.5	12.0	11.2	13.6	12.7	14.6
U11-630092	14.4	13.7	12.5	13.6	13.4	14.2
U11-641122	13.0	11.5	11.6	13.0	13.4	13.8
U11-649117	14.7	13.0	13.7	14.7	16.0	15.2

PRELIMINARY TEST IIIB, 2013

SEED SIZE (g/100)

Strain	Columbia MO	Goehner NE	Wymore NE	Hoytville OH	South Charleston OH
IA3023 (III)	14.5	13.9	18.4	15.4	18.1
IA3024	14.1	15.4	18.7	15.5	16.2
IA3048 (SCN)	12.6	13.5	17.7	13.9	14.0
IA4005	12.4	12.9	15.7	13.8	17.9
LD10-776	13.2	13.6	16.7	14.6	13.6
LD10- 2477	15.3	14.7	19.1	14.9	15.9
LD10- 9110	12.4	12.6	16.9	14.0	14.8
LD10- 9168	13.3	12.8	16.4	13.9	14.5
LD10- 9200	11.8	12.7	16.2	13.6	14.4
LD10-10150	11.7	13.5	17.0	13.1	15.4
LD10-10213	13.1	13.9	16.4	13.3	15.1
LD10-10226	15.0	14.0	17.7	15.0	16.1
LD10-11740	14.4	14.5	18.8	15.5	15.7
LD10-30004	11.7	11.2	15.2	13.6	12.6
LD10-30019	12.1	12.5	16.3	15.0	13.2
U11-605110	13.6	13.2	17.8	14.6	13.6
U11-615157	12.7	13.9	18.6	14.7	14.2
U11-616086	13.4	14.2	17.2	14.2	14.8
U11-616111	14.0	14.3	18.6	14.6	15.1
U11-621085	12.7	13.3	17.1	14.1	19.5
U11-622148	14.0	14.5	18.5	14.9	15.6
U11-623105	12.4	13.2	17.0	14.5	13.7
U11-628132	12.6	13.0	15.7	13.8	12.1
U11-629113	12.2	14.0	16.8	14.2	14.1
U11-630092	12.5	14.5	18.6	13.9	17.5
U11-641122	11.6	12.4	15.9	13.0	13.9
U11-649117	12.7	13.5	16.8	15.3	15.8

PRELIMINARY TEST IIIB, 2013

PROTEIN (%)

Strain	Mean 4 Tests	Urbana IL	Columbia MO	Goehner NE	Wymore NE
IA3023 (III)	34.7	33.1	35.5	34.2	36.2
IA3024	34.7	33.0	35.0	34.5	36.3
IA3048 (SCN)	35.9	34.9	36.5	35.9	36.5
IA4005	35.5	34.9	35.6	35.3	36.2
LD10-776	35.5	33.9	36.1	35.6	36.3
LD10- 2477	34.7	33.4	35.5	33.8	36.0
LD10- 9110	34.5	32.6	35.5	34.0	35.8
LD10- 9168	34.9	33.0	35.7	35.0	35.9
LD10- 9200	35.6	34.0	36.2	35.3	37.1
LD10-10150	35.6	34.4	35.7	35.6	36.8
LD10-10213	35.9	34.9	36.5	35.3	36.9
LD10-10226	36.0	34.7	36.9	35.8	36.7
LD10-11740	35.6	34.0	35.9	35.3	37.1
LD10-30004	35.7	34.7	36.5	35.3	36.4
LD10-30019	35.1	34.0	35.7	34.7	35.8
U11-605110	34.6	33.2	34.7	34.5	35.8
U11-615157	35.1	34.2	36.0	34.5	35.7
U11-616086	34.5	33.9	35.7	33.4	35.1
U11-616111	34.9	33.8	35.2	34.5	36.1
U11-621085	34.8	34.6	34.0	34.5	36.2
U11-622148	35.0	33.7	35.7	34.3	36.2
U11-623105	34.5	33.4	35.3	33.8	35.5
U11-628132	34.3	33.1	35.0	33.9	35.3
U11-629113	34.7	33.8	34.6	34.6	35.7
U11-630092	35.2	33.7	34.8	35.5	36.7
U11-641122	36.1	35.9	35.6	35.7	37.1
U11-649117	35.9	34.8	37.2	35.1	36.5

PRELIMINARY TEST IIIB, 2013

OIL (%)

Strain	Mean 4 Tests	Urbana IL	Columbia MO	Goehner NE	Wymore NE
IA3023 (III)	19.7	20.4	19.8	19.5	18.9
IA3024	19.7	20.1	19.6	19.7	19.2
IA3048 (SCN)	19.1	19.3	19.1	19.2	18.9
IA4005	19.3	19.9	19.3	18.9	19.0
LD10-776	19.3	19.7	19.4	18.8	19.1
LD10- 2477	20.2	20.7	20.2	20.1	19.7
LD10- 9110	19.6	20.5	19.0	19.4	19.6
LD10- 9168	19.1	19.7	19.1	18.7	18.8
LD10- 9200	18.8	19.5	18.8	18.6	18.3
LD10-10150	19.3	20.3	19.4	18.4	19.2
LD10-10213	19.2	19.6	19.1	19.5	18.8
LD10-10226	19.3	20.2	19.1	18.6	19.2
LD10-11740	19.8	20.7	20.2	19.2	19.3
LD10-30004	19.1	19.0	18.7	19.9	18.8
LD10-30019	18.5	18.7	18.3	18.5	18.4
U11-605110	19.2	19.4	19.4	19.1	19.1
U11-615157	19.4	19.2	19.2	19.4	19.7
U11-616086	19.5	19.7	19.4	19.5	19.4
U11-616111	19.9	20.1	20.0	19.7	19.7
U11-621085	19.6	19.2	20.5	19.4	19.1
U11-622148	19.7	20.2	19.3	19.9	19.4
U11-623105	20.0	20.1	20.1	20.2	19.6
U11-628132	18.9	18.6	19.8	18.6	18.5
U11-629113	19.1	19.3	19.1	19.2	18.9
U11-630092	19.5	19.3	20.1	19.5	19.0
U11-641122	18.8	18.7	19.3	18.4	18.8
U11-649117	19.4	20.3	18.7	19.2	19.3

Uniform Test IV, 2013

Ent.	Strain	Parentage	Seed Source	Previous Testing	Gen. Comp.	Unique Traits
1	LD06-7620	IA3023 x LD00- 3309	Diers	3	F5	SCN
2.	IA4005	IA3023 x IA3025	Fehr	1		1% linolenic
3.	LD00-2817P (L)	Ina x Dwight	Diers	5	F5	SCN
4.	K11-1163	IA3023 x LG04-5187	Schapaugh	new	F4	
5.	K11-1173	IA3023 x LG04-5187	Schapaugh	new	F4	
6.	K11-1196	IA3023 x LG04-5187	Schapaugh	new	F4	
7.	K11-1204	IA3023 x LG04-5187	Schapaugh	new	F4	
8.	K11-1252	IA3023 x LG04-5190	Schapaugh	new	F4	
9.	K11-1289	IA3023 x LG04-5190	Schapaugh	new	F4	
10.	K11-1778	U98-311422 x LD05-30578a	Schapaugh	new	F4	
11.	K11-2216	K03-3825 x LG04-5190	Schapaugh	new	F4	
12.	LD10-9423	LD05-8517 x Syngenta 03JR101916	Diers	new	F5	SCN
13.	LD10-9483	LD05-8517 x Syngenta 03JR101916	Diers	new	F5	SCN
14.	LG09-7167	LG00-3372 x HC99-2763	Nelson	PTIV	F6	genetic diversity
15.	LG09-7739	LG02-2412 x LG00-6182	Nelson	new	F6	Genetic diversity
16.	LG09-8519	K1599 x LG02-3733	Nelson	PTIV	F6	genetic diversity
17.	LG10-2695	IA3023 x LG03-3020	Nelson	PTIV	F6	genetic diversity
18.	LG10-2699	IA3023 x LG03-3020	Nelson	new	F6	Genetic diversity
19.	LG10-3045	LG03-11572 x IA3023	Nelson	new	F6	Genetic diversity
20.	LG10-3250	LG03-1672 x LD00-3309	Nelson	new	F6	Genetic diversity
21.	LG10-3987	LG03-1614 x LG03-6296	Nelson	new	F6	Genetic diversity
22.	LG11-6190	LG03-3020 x LG03-3780	Nelson	new	F6	Genetic diversity
23.	LG11-6205	LG03-3020 x LG03-3780	Nelson	new	F6	Genetic diversity
24.	LG11-6208	LG03-3020 x LG03-3780	Nelson	new	F6	Genetic diversity
25.	LG11-7662	LG03-2866 x LG98-1605	Nelson	new	F6	Genetic diversity
26.	LG11-7722	LG03-2979 x LG04-4866	Nelson	new	F6	Genetic diversity
27.	LG11-7727	LG03-2979 x LG04-4866	Nelson	new	F6	Genetic diversity
28.	LG11-7880	LG04-4866 x LG03-3780	Nelson	new	F6	Genetic diversity
29.	SA10-8471	LG04-6000 X LD04-5907	Scaboo	PTIV	F5	
30.	SA10-11227	S04-8882 x R00-1194F	Scaboo	new	F4	SCN, Yield
31.	S11-14926	LD04-13265 x S06-12439	Shannon	new	F5	
32.	S11-15382	LG04-6000 x S06-12749	Shannon	new	F5	

UNIFORM TEST IV, 2013

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	Shattering Score Manhattan KS	Shattering Score Jackson TN	Green Stem Score Jackson TN	SDS DX Valmeyer IL
LD06-7620	PTBDYBlI	2.0	1.0	3.0	22
IA4005	WTTDYBlI	3.0	2.0	2.0	28
LD00-2817P (L)	PGBDYIbI	4.0	1.7	2.0	6
K11-1163	WTBDYBLI	3.0	1.7	2.0	25
K11-1173	WTBDYBlI	3.0	2.0	2.0	25
K11-1196	WT+GBDYBl+IbI	3.0	2.3	1.7	20
K11-1204	WT+LtTDYBlI	2.0	2.0	1.7	28
K11-1252	PLtTDYBlI	2.0	2.0	1.7	36
K11-1289	WTTDYBlI	2.0	1.7	3.0	33
K11-1778	PGTDYIbI	2.0	2.0	2.0	56
K11-2216	P+LtTDYBlI	1.0	1.0	2.0	25
LD10-9423	WTTDYBlI	2.0	1.0	1.0	31
LD10-9483	W+PLt+GTDYBl+BfI	3.0	1.3	1.0	36
LG09-7167	PLtBDYBlI	3.0	2.3	1.3	28
LG09-7739	PGBDYIbI	2.0	1.7	2.0	31
LG09-8519	PTBDYBlI	2.0	2.0	2.0	31
LG10-2695	WGTDYIbI	3.0	1.0	1.7	64
LG10-2699	WLtTDYBlI	3.0	2.3	2.3	42
LG10-3045	WLtTIYBrI	2.0	1.7	1.7	39
LG10-3250	PTBIYGI	3.0	2.0	2.0	36
LG10-3987	PTBDYBrI	2.0	3.0	1.0	28
LG11-6190	PTTDYBlI	1.0	1.3	2.0	28
LG11-6205	PTTDYBlI	2.0	1.7	2.0	44
LG11-6208	WTTDYBlI	4.0	1.3	2.7	39
LG11-7662	WGTDYBfI	2.0	1.0	2.0	33
LG11-7722	PTBDYBlI	3.0	1.0	2.7	47
LG11-7727	WTBDYBlI	3.0	2.0	3.0	39
LG11-7880	WTBDYBrI	2.0	2.7	1.3	28
SA10-8471	PGTDTLbfI	2.0	1.3	2.7	11
SA10-11227	WGTIYBfI	2.0	1.0	2.3	22
S11-14926	WTTDYBlI	2.0	1.3	2.0	18
S11-15382	PGBDYLibI	2.0	1.3	2.0	22
Spencer(sus)					64
LS94-3207(res)					12
S03-007CR(sus)					69
Mean					33
LSD					17
P(0.05)					0.0001

UNIFORM TEST IV, 2013

REGIONAL SUMMARY

No. of Tests Strain	Yield 9 bu/a	Rank 9 No.	Maturity 8 Date	Lodging 9 Score	Plant Height 9 In.	Seed Quality 9 Score	Seed Size 9 g/100	Composition Protein 5 %	 Oil 5 %
LD06-7620	61.5	2	9/26	1.3	34	2.0	14.0	34.4	19.9
IA4005	55.1	16	-0.1	1.3	32	1.8	14.0	34.9	20.2
LD00-2817P (L)	61.1	3	1.9	1.8	40	2.1	12.9	33.1	20.7
K11-1163	54.8	18	-5.1	1.9	37	2.3	15.6	35.0	19.6
K11-1173	57.7	8	-4.0	2.2	41	2.1	16.8	34.8	19.9
K11-1196	51.0	32	-8.0	1.8	36	1.7	14.9	34.9	19.4
K11-1204	54.9	17	-4.4	1.7	38	1.8	14.8	35.0	19.6
K11-1252	55.2	15	-2.3	1.5	38	1.8	14.7	34.5	19.9
K11-1289	55.5	13	-3.7	1.4	36	2.0	16.2	34.9	20.0
K11-1778	58.7	6	-3.8	1.4	36	2.2	15.2	34.9	20.0
K11-2216	55.7	12	2.0	1.5	36	1.8	14.9	35.8	19.4
LD10-9423	54.7	19	-1.8	1.8	35	1.6	10.7	35.2	19.4
LD10-9483	58.5	7	-2.1	1.7	36	1.8	12.7	35.5	19.2
LG09-7167	57.4	9	-4.8	1.7	38	2.1	13.7	35.5	19.5
LG09-7739	54.4	21	-1.4	2.2	40	2.2	18.0	35.5	19.8
LG09-8519	53.0	24	-1.9	1.6	40	1.8	13.4	35.6	19.6
LG10-2695	52.5	27	-6.3	2.2	38	1.9	11.9	34.1	20.4
LG10-2699	57.2	10	0.2	1.7	36	1.9	14.7	34.0	20.4
LG10-3045	51.2	30	-2.7	3.0	39	1.9	12.7	34.5	19.7
LG10-3250	56.9	11	-0.4	1.9	43	2.1	15.1	35.9	19.5
LG10-3987	52.4	28	-2.4	2.2	41	1.8	14.3	36.0	19.5
LG11-6190	61.5	1	-0.1	2.1	39	1.7	13.9	34.5	19.5
LG11-6205	59.8	5	-0.6	1.9	39	1.8	13.5	34.9	19.2
LG11-6208	61.1	3	0.2	2.0	40	1.8	13.4	35.6	19.6
LG11-7662	52.7	26	2.1	2.4	42	2.1	13.0	34.9	19.9
LG11-7722	54.1	22	3.6	2.1	40	2.0	15.1	35.1	19.5
LG11-7727	51.2	30	3.8	2.5	38	1.9	15.0	35.7	19.2
LG11-7880	55.3	14	1.3	1.8	38	1.8	13.1	34.9	19.9
SA10-8471	54.7	19	1.4	1.9	39	1.7	13.1	35.1	19.4
SA10-11227	52.8	25	0.3	1.6	38	1.8	12.4	34.9	19.6
S11-14926	52.2	29	1.7	1.8	38	1.7	12.4	35.4	18.9
S11-15382	53.5	23	2.2	1.4	41	1.7	12.7	34.4	19.4

127.9 Days After Planting

UNIFORM TEST IV, 2013

YIELD (bu/a)

Strain	Mean 9 Tests	Brownstown IL	Urbana IL	Lafayette IN	Butlerville IN	Ashland KS	Ottawa KS	Columbia MO	Portageville (Loam) MO	Jackson TN
LD06-7620	61.5	47.6	73.4	77.2	69.3	61.2	34.9	67.6	59.2	62.8
IA4005	55.1	50.0	70.7	68.4	67.9	33.2	34.7	53.3	59.2	58.8
LD00-2817P (L)	61.1	45.6	69.2	71.8	71.5	56.2	36.7	61.0	67.3	70.7
K11-1163	54.8	49.4	57.5	64.8	67.3	35.2	37.2	63.8	56.9	61.3
K11-1173	57.7	55.6	61.3	70.2	66.5	33.8	39.3	70.6	58.7	63.0
K11-1196	51.0	45.2	62.1	66.5	63.9	28.1	36.4	54.2	46.6	56.3
K11-1204	54.9	49.3	60.3	65.2	64.8	34.2	41.4	62.6	60.2	55.7
K11-1252	55.2	50.3	66.7	64.8	61.7	41.8	34.5	58.5	56.2	62.3
K11-1289	55.5	53.7	64.9	65.1	63.5	30.4	39.8	59.5	55.9	66.9
K11-1778	58.7	54.5	65.7	72.8	63.0	48.4	41.5	62.8	64.0	55.9
K11-2216	55.7	48.2	56.5	64.3	67.2	46.3	38.8	50.7	70.7	58.4
LD10-9423	54.7	43.7	58.6	58.1	66.4	63.2	31.6	57.3	52.6	60.7
LD10-9483	58.5	50.7	66.6	67.6	72.1	60.7	33.7	60.2	55.6	58.9
LG09-7167	57.4	48.8	64.8	67.6	61.9	33.7	42.7	60.1	68.7	67.9
LG09-7739	54.4	43.8	62.2	72.2	65.4	23.2	35.6	63.6	60.3	63.2
LG09-8519	53.0	48.5	61.7	60.1	69.6	16.6	36.5	61.9	55.9	66.2
LG10-2695	52.5	45.0	61.9	60.2	73.2	16.5	35.8	59.2	58.0	62.4
LG10-2699	57.2	46.5	70.1	67.4	66.1	34.2	40.0	64.1	64.3	62.1
LG10-3045	51.2	43.6	67.4	60.2	65.5	24.9	39.9	56.5	53.2	49.3
LG10-3250	56.9	44.0	62.8	65.1	68.0	52.0	27.5	58.8	73.7	60.1
LG10-3987	52.4	37.5	56.5	66.5	62.3	27.6	37.2	61.8	62.1	60.3
LG11-6190	61.5	50.6	73.5	69.4	72.4	60.0	40.4	60.6	63.7	63.2
LG11-6205	59.8	43.8	71.0	72.0	62.7	56.0	41.8	66.0	60.5	64.8
LG11-6208	61.1	49.1	68.1	69.0	64.8	56.6	41.0	70.8	63.9	66.6
LG11-7662	52.7	40.5	50.9	61.3	63.8	31.0	36.3	56.9	68.2	65.7
LG11-7722	54.1	44.5	57.5	69.6	68.0	17.5	41.1	55.2	71.7	62.0
LG11-7727	51.2	44.9	50.3	60.9	62.8	28.5	36.4	56.1	63.4	57.5
LG11-7880	55.3	40.3	55.6	63.8	63.5	45.0	40.2	65.4	72.0	51.8
SA10-8471	54.7	43.5	50.7	60.9	60.3	43.7	39.0	60.4	70.5	63.7
SA10-11227	52.8	32.7	56.3	53.1	57.6	53.6	36.8	55.8	64.5	64.7
S11-14926	52.2	42.3	52.1	62.2	67.4	48.7	25.7	52.3	67.0	52.2
S11-15382	53.5	43.3	59.1	63.5	66.5	31.0	36.7	52.7	66.8	61.9
Location Mean		46.2	62.1	65.7	65.8	39.8	37.2	60.0	62.2	61.2
C.V. (%)		9.1	7.9	7.6	10.2	14.9	9.1	9.7	11.0	11.8
L.S.D. (5%)		9.0	10.0	8.2	11.0	8.2	4.6	9.5	13.3	11.8
Row Sp. (In.)		30	30	30	30	30	30	30	30	30
Rows/Plot		4	4	4	4	4	4	4	4	4
Reps		2	2	3	3	3	3	3	3	3

UNIFORM TEST IV, 2013

YIELD RANK

Strain	Yield Rank	Brownstown IL	Urbana IL	Lafayette IN	Butlerville IN	Ashland KS	Ottawa KS	Columbia MO	Portageville (Loam) MO	Jackson TN
LD06-7620	2	14	2	1	6	2	26	3	21	13
IA4005	16	7	4	10	9	21	27	29	21	24
LD00-2817P (L)	3	16	6	5	4	6	18	13	8	1
K11-1163	18	8	23	19	11	16	15	7	25	19
K11-1173	8	1	19	6	13	19	12	2	23	12
K11-1196	32	17	16	14	21	26	21	28	32	27
K11-1204	17	9	20	16	19	17	4	10	20	29
K11-1252	15	6	9	19	30	15	28	21	26	15
K11-1289	13	3	12	17	23	24	11	18	27	3
K11-1778	6	2	11	2	25	11	3	9	13	28
K11-2216	12	13	25	21	12	12	14	32	4	25
LD10-9423	19	24	22	31	15	1	30	22	31	20
LD10-9483	7	4	10	11	3	3	29	16	29	23
LG09-7167	9	11	13	11	29	20	1	17	6	2
LG09-7739	21	22	15	3	18	29	25	8	19	10
LG09-8519	24	12	18	30	5	31	20	11	27	5
LG10-2695	27	18	17	28	1	32	24	19	24	14
LG10-2699	10	15	5	13	16	17	9	6	12	16
LG10-3045	30	25	8	28	17	28	10	24	30	32
LG10-3250	11	21	14	17	7	9	31	20	1	22
LG10-3987	28	31	25	14	28	27	15	12	17	21
LG11-6190	1	5	1	8	2	4	7	14	15	10
LG11-6205	5	22	3	4	27	7	2	4	18	7
LG11-6208	3	10	7	9	20	5	6	1	14	4
LG11-7662	26	29	30	25	22	22	23	23	7	6
LG11-7722	22	20	23	7	8	30	5	27	3	17
LG11-7727	30	19	32	26	26	25	21	25	16	26
LG11-7880	14	30	28	22	24	13	8	5	2	31
SA10-8471	19	26	31	26	31	14	13	15	5	9
SA10-11227	25	32	27	32	32	8	17	26	11	8
S11-14926	29	28	29	24	10	10	32	31	9	30
S11-15382	23	27	21	23	14	22	18	30	10	18

UNIFORM TEST IV, 2013

MATURITY (date)

Strain	Mean 8 Tests	Brownstown IL	Urbana IL	Lafayette IN	Butlerville IN	Ashland KS	Ottawa KS	Columbia MO	Portageville (Loam) MO	Jackson TN
LD06-7620	9/26	9/26	9/29	10/6	10/4	9/22		9/24	9/14	9/24
IA4005	-0.1	1	-1	-1	2	-2		3	-1	-2
LD00-2817P (L)	1.9	-1	1	1	5	3		3	5	-1
K11-1163	-5.1	-5	-10	-8	-1	-7		-6	-1	-3
K11-1173	-4.0	-3	-5	-6	-3	-8		-6	0	-1
K11-1196	-8.0	-11	-9	-9	-5	-10		-10	-1	-9
K11-1204	-4.4	-5	-6	-7	-1	-4		-5	-1	-6
K11-1252	-2.3	-2	-2	-4	-1	-1		-2	-1	-5
K11-1289	-3.7	-4	-3	-7	-3	-7		-4	0	-1
K11-1778	-3.8	-6	-6	-3	-1	-4		-7	-2	-1
K11-2216	2.0	0	1	-1	2	2		3	9	0
LD10-9423	-1.8	-5	-3	-4	-1	0		2	0	-4
LD10-9483	-2.1	-3	-3	-6	-1	3		-1	0	-6
LG09-7167	-4.8	-5	-2	-3	1	-10		-10	-2	-7
LG09-7739	-1.4	-1	-1	1	1	-10		-1	1	-1
LG09-8519	-1.9	-3	-2	-3	-1	-8		-1	7	-4
LG10-2695	-6.3	-5	-7	-5	-3	-12		-6	-3	-10
LG10-2699	0.2	0	0	1	7	-6		3	1	-5
LG10-3045	-2.7	-4	-2	-2	0	-9		2	1	-8
LG10-3250	-0.4	-2	-1	0	-1	3		-3	1	0
LG10-3987	-2.4	-2	-1	0	0	-5		-4	0	-8
LG11-6190	-0.1	-3	-1	-1	2	2		2	1	-3
LG11-6205	-0.6	-2	-2	-1	2	2		1	-1	-3
LG11-6208	0.2	0	0	0	2	1		0	-1	0
LG11-7662	2.1	0	0	5	3	0		3	2	3
LG11-7722	3.6	3	1	7	5	-2		4	7	4
LG11-7727	3.8	3	1	4	2	4		4	8	4
LG11-7880	1.3	-2	-1	0	4	3		3	7	-3
SA10-8471	1.4	0	-2	2	1	2		3	5	0
SA10-11227	0.3	-1	-1	-1	-3	2		2	1	3
S11-14926	1.7	0	1	2	4	4		1	5	-3
S11-15382	2.2	4	2	3	0	-1		9	2	-1
Date Planted	5/21	6/7	5/15	5/23	5/29	5/15	5/28	5/15	5/13	5/15
Days to Mature	128	111	137	136	128	130		132	124	132

UNIFORM TEST IV, 2013

LODGING (score)

Strain	Mean 9 Tests	Brownstown IL	Urbana IL	Lafayette IN	Butlerville IN	Ashland KS	Ottawa KS	Columbia MO	Portageville (Loam) MO	Jackson TN
LD06-7620	1.3	1.3	1.8	1.0	1.5	1.0	1.0	1.5	2.0	1.0
IA4005	1.3	1.3	1.3	1.0	1.5	1.0	1.0	1.5	2.0	1.0
LD00-2817P (L)	1.8	1.8	2.0	1.3	1.8	2.7	1.0	1.5	2.0	2.3
K11-1163	1.9	2.8	2.3	1.7	1.7	1.3	1.3	1.7	2.0	2.0
K11-1173	2.2	3.3	2.8	1.8	1.7	1.7	2.0	1.8	3.0	2.0
K11-1196	1.8	2.5	2.5	2.0	1.7	1.0	1.0	1.5	2.0	1.7
K11-1204	1.7	2.0	2.0	1.3	1.7	1.0	1.0	1.5	3.0	1.7
K11-1252	1.5	1.8	1.5	1.3	1.5	1.0	1.0	1.5	2.0	2.0
K11-1289	1.4	1.3	1.8	1.0	1.2	1.0	1.0	1.5	3.0	1.0
K11-1778	1.4	1.8	1.0	1.0	1.2	1.0	1.0	1.5	2.0	1.7
K11-2216	1.5	1.8	2.3	1.0	1.3	1.0	1.0	1.5	3.0	1.0
LD10-9423	1.8	1.8	2.5	1.5	1.5	2.0	1.0	1.5	2.0	2.0
LD10-9483	1.7	1.8	2.0	1.2	1.5	1.0	1.0	1.5	3.0	2.0
LG09-7167	1.7	3.0	2.3	1.8	1.3	1.0	1.0	1.5	2.0	1.7
LG09-7739	2.2	3.0	2.8	2.2	2.0	1.0	1.3	1.5	3.0	2.7
LG09-8519	1.6	1.5	1.8	1.2	1.5	1.0	1.0	1.3	3.0	2.0
LG10-2695	2.2	3.0	3.0	2.2	1.8	1.3	1.3	2.5	2.0	2.3
LG10-2699	1.7	2.0	2.3	1.7	1.8	1.0	1.3	1.7	2.0	1.3
LG10-3045	3.0	3.5	3.5	3.3	2.0	1.7	2.7	2.7	4.0	3.3
LG10-3250	1.9	2.3	2.0	1.7	1.5	1.3	1.0	1.5	3.0	2.7
LG10-3987	2.2	3.8	3.3	2.0	1.7	1.0	1.0	1.7	3.0	2.3
LG11-6190	2.1	2.5	2.0	1.7	1.3	2.7	1.7	1.7	3.0	2.3
LG11-6205	1.9	2.5	2.0	1.7	1.3	2.0	1.0	2.0	3.0	1.7
LG11-6208	2.0	2.3	3.0	1.7	1.5	2.3	1.0	2.2	2.0	2.3
LG11-7662	2.4	3.8	2.8	1.3	1.5	2.3	1.3	2.3	3.0	3.0
LG11-7722	2.1	3.3	2.0	2.0	1.8	1.3	1.0	1.8	3.0	2.7
LG11-7727	2.5	3.5	3.5	2.2	1.5	2.3	1.7	2.2	2.0	3.7
LG11-7880	1.8	2.0	2.8	1.7	1.8	1.0	1.0	1.5	2.0	2.3
SA10-8471	1.9	2.3	2.3	1.3	2.0	1.7	1.0	1.8	3.0	2.0
SA10-11227	1.6	1.5	2.0	1.3	1.8	1.0	1.0	1.5	2.0	2.3
S11-14926	1.8	2.8	2.0	1.3	1.3	2.3	1.0	2 .0	3.0	2.3
S11-15382	1.4	1.8	1.5	1.3	1.3	1.0	1.0	1.5	2.0	1.3

UNIFORM TEST IV, 2013

PLANT HEIGHT (inches)

Strain	Mean 9 Tests	Brownstown IL	Urbana IL	Lafayette IN	Butlerville IN	Ashland KS	Ottawa KS	Columbia MO	Portageville (Loam) MO	Jackson TN
LD06-7620	34	30	40	37	42	39	29	30	28	34
IA4005	32	29	35	34	40	35	29	26	32	31
LD00-2817P (L)	40	34	44	43	44	47	35	33	36	40
K11-1163	37	32	39	43	43	41	34	33	34	38
K11-1173	41	40	46	45	44	43	36	36	40	39
K11-1196	36	34	40	42	43	39	33	31	31	33
K11-1204	38	36	42	42	42	41	37	34	34	36
K11-1252	38	34	41	41	42	42	35	34	38	37
K11-1289	36	32	41	41	41	38	32	32	34	36
K11-1778	36	33	38	39	40	38	32	32	32	37
K11-2216	36	31	41	39	42	37	32	31	33	35
LD10-9423	35	32	39	39	41	41	31	30	32	34
LD10-9483	36	32	37	39	41	41	34	32	34	36
LG09-7167	38	36	41	44	42	40	35	32	32	37
LG09-7739	40	39	44	46	43	41	39	35	33	37
LG09-8519	40	35	44	43	43	43	36	34	38	41
LG10-2695	38	34	40	43	41	39	35	35	36	38
LG10-2699	36	32	40	41	44	39	31	29	36	32
LG10-3045	39	38	41	41	41	42	39	36	38	37
LG10-3250	43	37	47	47	44	50	37	38	40	46
LG10-3987	41	39	45	45	43	42	42	37	38	39
LG11-6190	39	34	43	43	39	43	37	35	38	39
LG11-6205	39	33	43	42	42	46	36	35	36	39
LG11-6208	40	34	43	43	42	46	37	36	39	41
LG11-7662	42	39	45	44	43	45	39	36	38	45
LG11-7722	40	34	43	44	45	40	38	36	39	43
LG11-7727	38	33	42	42	38	43	37	35	34	41
LG11-7880	38	34	39	43	42	42	34	33	34	40
SA10-8471	39	32	43	42	39	44	37	34	40	43
SA10-11227	38	29	41	41	40	41	35	31	38	42
S11-14926	38	33	36	40	44	43	38	32	38	41
S11-15382	41	36	45	45	42	45	38	34	38	43

UNIFORM TEST IV, 2013

SEED QUALITY (score)

Strain	Mean 9 Tests	Brownstown IL	Urbana IL	Lafayette IN	Butlerville IN	Ashland KS	Ottawa KS	Columbia MO	Portageville (Loam) MO	Jackson TN
LD06-7620	2.0	1.0	1.0	1.0	2.0	2.0	2.0	1.7	4.0	3.0
IA4005	1.8	1.0	1.0	1.0	2.0	2.0	2.0	1.5	3.0	2.3
LD00-2817P (L)	2.1	1.0	1.0	1.0	2.5	3.0	2.0	1.7	4.0	3.0
K11-1163	2.3	1.0	1.0	1.0	2.0	3.0	3.0	1.7	5.0	2.7
K11-1173	2.1	1.0	1.0	1.5	2.0	3.0	3.0	1.3	3.0	3.0
K11-1196	1.7	1.0	1.0	1.0	1.5	2.0	2.0	1.5	3.0	2.3
K11-1204	1.8	1.0	1.0	1.0	1.5	2.0	2.0	1.7	3.0	3.0
K11-1252	1.8	1.0	1.0	1.0	1.5	3.0	2.0	1.8	3.0	2.3
K11-1289	2.0	1.0	1.0	1.0	2.0	3.0	3.0	1.5	3.0	2.7
K11-1778	2.2	1.0	1.0	1.5	2.0	3.0	3.0	1.5	4.0	3.0
K11-2216	1.8	1.0	1.0	1.0	1.5	3.0	2.0	1.5	3.0	2.0
LD10-9423	1.6	1.0	1.0	1.0	1.5	2.0	2.0	1.5	2.0	2.0
LD10-9483	1.8	1.0	1.0	1.0	1.5	2.0	3.0	1.5	3.0	2.0
LG09-7167	2.1	1.0	1.0	1.5	2.0	3.0	3.0	1.5	4.0	2.3
LG09-7739	2.2	1.0	1.0	2.0	2.5	3.0	3.0	1.5	4.0	2.0
LG09-8519	1.8	1.0	1.0	1.0	1.5	2.0	2.0	1.5	4.0	2.3
LG10-2695	1.9	1.0	1.0	1.0	2.0	2.0	2.0	1.5	4.0	2.3
LG10-2699	1.9	1.0	1.0	1.5	1.5	2.0	3.0	1.5	3.0	2.3
LG10-3045	1.9	1.0	1.0	1.5	1.5	2.0	2.0	1.7	4.0	2.7
LG10-3250	2.1	1.0	1.0	2.0	2.0	2.0	2.0	1.7	4.0	3.0
LG10-3987	1.8	1.0	2.0	1.0	2.0	3.0	2.0	1.5	2.0	2.0
LG11-6190	1.7	1.0	1.0	1.0	1.0	2.0	3.0	1.5	3.0	2.0
LG11-6205	1.8	1.0	1.0	1.0	1.5	2.0	2.0	1.7	4.0	2.3
LG11-6208	1.8	1.0	1.0	1.0	1.5	3.0	2.0	1.5	3.0	2.0
LG11-7662	2.1	2.0	1.0	1.5	1.5	2.0	2.0	2.2	4.0	3.0
LG11-7722	2.0	1.0	2.0	1.5	1.5	3.0	2.0	1.7	3.0	2.0
LG11-7727	1.9	1.0	1.0	1.5	1.5	3.0	2.0	1.5	3.0	2.3
LG11-7880	1.8	1.0	1.0	1.0	1.5	2.0	1.0	1.5	4.0	3.0
SA10-8471	1.7	1.0	1.0	1.0	1.5	2.0	2.0	1.5	3.0	2.7
SA10-11227	1.8	1.0	1.0	1.0	2.5	2.0	2.0	1.5	3.0	2.0
S11-14926	1.7	1.0	1.0	1.5	1.0	2.0	1.0	1.5	4.0	2.0
S11-15382	1.7	1.0	1.0	1.5	1.0	2.0	2.0	1.7	3.0	2.3

UNIFORM TEST IV, 2013

SEED SIZE (g/100)

Strain	Mean 9 Tests	Brownstown IL	Urbana IL	Lafayette IN	Butlerville IN	Ashland KS	Ottawa KS	Columbia MO	Portageville (Loam) MO	Jackson TN
LD06-7620	14.0	13.3	14.4	14.7	11.6	13.4	14.9	12.9	16.1	14.7
IA4005	14.0	13.5	14.6	14.7	12.5	13.5	14.9	13.8	14.9	13.5
LD00-2817P (L)	12.9	12.0	13.7	14.6	11.4	13.2	12.1	11.8	14.1	13.5
K11-1163	15.6	15.0	14.3	16.6	12.8	15.7	16.4	14.9	17.6	17.3
K11-1173	16.8	17.0	14.8	17.0	14.4	15.8	18.8	15.9	19.3	18.3
K11-1196	14.9	13.9	14.9	15.3	12.3	14.0	16.8	13.3	17.6	15.9
K11-1204	14.8	14.1	14.0	16.5	13.4	13.7	15.8	13.6	16.4	16.0
K11-1252	14.7	14.3	14.6	15.7	13.7	12.0	16.4	13.7	15.8	16.2
K11-1289	16.2	16.1	15.7	17.1	13.2	14.2	17.7	15.2	18.5	18.5
K11-1778	15.2	14.1	15.2	16.8	13.4	14.0	15.3	14.0	16.5	17.5
K11-2216	14.9	13.8	16.1	16.2	14.4	13.5	13.7	13.3	16.4	16.4
LD10-9423	10.7	9.6	10.1	10.8	8.9	11.7	10.8	10.4	11.6	12.1
LD10-9483	12.7	12.0	12.9	13.6	11.4	12.6	12.9	11.6	14.0	13.8
LG09-7167	13.7	13.0	14.5	15.2	11.8	12.1	13.8	11.5	15.0	16.3
LG09-7739	18.0	17.4	19.0	20.0	14.8	15.1	19.6	17.5	19.8	19.2
LG09-8519	13.4	12.7	13.8	13.4	12.3	12.6	13.5	11.9	15.2	14.8
LG10-2695	11.9	11.1	12.2	13.2	9.6	11.5	11.9	11.6	13.6	13.0
LG10-2699	14.7	13.4	14.6	15.9	12.4	14.6	14.8	13.9	16.8	15.6
LG10-3045	12.7	11.9	13.3	14.5	10.6	12.2	12.7	11.9	14.3	12.9
LG10-3250	15.1	13.8	14.8	17.6	12.4	15.2	13.4	13.0	18.8	17.1
LG10-3987	14.3	13.3	14.3	17.5	13.2	13.4	13.6	12.8	14.9	16.1
LG11-6190	13.9	13.4	14.5	15.7	12.4	14.1	13.0	12.9	14.9	14.5
LG11-6205	13.5	11.9	14.4	15.6	12.0	13.9	12.3	12.8	13.9	14.8
LG11-6208	13.4	13.1	13.2	14.8	11.5	14.5	12.3	12.7	13.7	14.8
LG11-7662	13.0	12.1	12.4	14.5	11.6	13.0	11.6	12.1	14.6	15.3
LG11-7722	15.1	15.1	15.7	17.4	13.6	14.1	13.9	14.2	16.1	16.1
LG11-7727	15.0	14.2	15.0	16.4	14.0	14.4	14.4	13.6	15.9	17.5
LG11-7880	13.1	12.8	12.3	13.6	11.5	13.9	13.9	12.2	15.9	12.1
SA10-8471	13.1	12.6	12.3	14.0	11.6	12.8	12.0	12.1	15.2	15.1
SA10-11227	12.4	10.6	11.8	12.9	11.0	13.4	11.4	11.0	14.2	15.3
S11-14926	12.4	11.6	12.6	13.8	11.2	11.8	11.0	11.2	14.5	14.2
S11-15382	12.7	11.5	13.2	13.8	12.1	12.0	12.9	12.1	13.1	14.0

UNIFORM TEST IV, 2013

PROTEIN (%)

Strain	Mean 5 Tests	Urbana IL	Brownstown IL	Ashland KS	Columbia MO	Jackson TN
LD06-7620	34.4	33.5	34.1	34.4	34.9	35.2
IA4005	34.9	34.1	35.1	34.9	35.8	34.6
LD00-2817P (L)	33.1	32.4	32.2	33.6	33.8	33.7
K11-1163	35.0	34.5	35.8	34.4	35.4	34.9
K11-1173	34.8	34.7	35.0	34.1	35.2	35.1
K11-1196	34.9	33.7	35.7	34.8	35.2	35.0
K11-1204	35.0	34.1	35.8	34.7	35.3	35.0
K11-1252	34.5	33.7	35.1	33.8	34.5	35.2
K11-1289	34.9	34.2	35.4	33.4	35.3	36.0
K11-1778	34.9	34.2	35.1	34.6	35.5	35.1
K11-2216	35.8	35.0	35.9	35.9	36.4	35.6
LD10-9423	35.2	34.3	35.2	36.2	35.3	35.1
LD10-9483	35.5	34.8	35.7	36.4	36.2	34.4
LG09-7167	35.5	34.9	35.9	35.3	36.1	35.4
LG09-7739	35.5	34.6	34.7	35.9	35.9	36.5
LG09-8519	35.6	34.3	36.0	35.6	35.4	36.7
LG10-2695	34.1	32.9	34.1	33.7	34.1	35.6
LG10-2699	34.0	33.7	33.8	34.3	34.4	34.0
LG10-3045	34.5	33.5	35.2	33.5	35.2	35.3
LG10-3250	35.9	35.9	37.3	34.8	36.5	35.2
LG10-3987	36.0	36.3	36.5	35.7	36.6	35.2
LG11-6190	34.5	34.1	34.6	34.3	34.6	34.7
LG11-6205	34.9	34.6	34.6	35.1	35.2	35.2
LG11-6208	35.6	34.8	35.2	36.3	36.0	35.7
LG11-7662	34.9	34.7	36.1	34.3	34.7	34.7
LG11-7722	35.1	35.5	35.5	35.8	35.6	33.0
LG11-7727	35.7	35.3	35.3	35.9	36.5	35.7
LG11-7880	34.9	33.7	35.0	35.2	34.8	35.9
SA10-8471	35.1	35.0	35.4	35.2	35.2	34.6
SA10-11227	34.9	34.3	34.1	35.8	34.6	35.9
S11-14926	35.4	34.7	35.3	35.4	35.8	35.9
S11-15382	34.4	34.3	33.9	34.4	34.3	35.0

* Protein and Oil values converted to 13% moisture basis.

UNIFORM TEST IV, 2013

OIL (%)

Strain	Mean 5 Tests	Urbana IL	Brownstown IL	Ashland KS	Columbia MO	Jackson TN
LD06-7620	19.9	19.9	20.6	19.6	19.8	19.8
IA4005	20.2	19.9	20.6	19.8	19.8	21.1
LD00-2817P (L)	20.7	20.7	21.4	20.0	19.8	21.3
K11-1163	19.6	19.1	19.6	19.3	19.5	20.5
K11-1173	19.9	19.5	20.1	19.9	19.9	20.3
K11-1196	19.4	19.7	19.2	19.3	19.0	19.8
K11-1204	19.6	19.5	19.6	19.1	19.5	20.6
K11-1252	19.9	20.2	20.1	18.9	19.9	20.5
K11-1289	20.0	20.2	20.3	19.4	19.9	20.1
K11-1778	20.0	20.0	20.2	19.7	19.5	20.7
K11-2216	19.4	19.6	19.4	18.8	18.8	20.3
LD10-9423	19.4	19.4	19.3	18.8	19.3	20.3
LD10-9483	19.2	20.0	19.8	19.0	19.5	17.8
LG09-7167	19.5	19.6	19.8	18.9	18.8	20.6
LG09-7739	19.8	19.9	20.6	18.7	19.7	19.8
LG09-8519	19.6	19.6	19.6	19.1	19.5	20.1
LG10-2695	20.4	20.8	20.7	20.0	20.4	20.3
LG10-2699	20.4	20.0	20.7	19.8	20.4	21.1
LG10-3045	19.7	19.4	19.1	19.8	19.1	21.0
LG10-3250	19.5	19.3	19.0	20.3	19.2	19.9
LG10-3987	19.5	18.9	19.3	19.4	18.9	20.7
LG11-6190	19.5	19.3	19.7	19.5	19.2	20.0
LG11-6205	19.2	19.0	19.1	18.9	18.9	20.2
LG11-6208	19.6	19.5	19.9	19.2	19.2	20.4
LG11-7662	19.9	19.7	19.7	19.7	19.9	20.6
LG11-7722	19.5	19.2	19.6	18.4	19.0	21.5
LG11-7727	19.2	19.1	19.8	18.8	18.5	19.8
LG11-7880	19.9	19.8	20.1	20.0	19.9	19.6
SA10-8471	19.4	18.7	19.1	19.3	18.8	21.0
SA10-11227	19.6	19.6	19.8	19.3	19.7	19.7
S11-14926	18.9	18.4	18.8	19.0	18.9	19.3
S11-15382	19.4	19.2	19.6	19.2	19.3	19.6

Uniform Test 0 Roundup-Ready, 2013

Ent.	Strain	Parentage	Seed Source	Previous Testing	Gen. Comp.	Unique Traits
1	AG0532		Monsanto	1		
2.	AG0231 (E)		Monsanto	1		
3.	AG0808	na	Monsanto	2		
4.	AG1230		Monsanto	1		RR
5.	M06R-614008	SDX00R-026-42 x N34505R	Orf	1	F5	RR
6.	M06R-614016	SDX00R-026-42 x N34505R	Orf	1	F5	RR
7.	MN1410R2F5-83	MN1410*3 x R2 LINE FROM MONSANTO R2BC2	Orf	new	F5	R2
8.	MN1410R2F5-121	MN1410*3 x R2 LINE FROM MONSANTO R2BC2	Orf	new	F5	R2
9.	MN1410R2F5-217	MN1410*3 x R2 LINE FROM MONSANTO R2BC2	Orf	new	F5	R2

UNIFORM TEST 0 Roundup-Ready, 2013

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	Shattering Score Manhattan KS	Green Stem Score St. Germain de-Grantham QUE	Chlorosis Score Danvers MN
AG0532	PTBDYBlI	4.0	1.0	2.0
AG0231 (E)	PTBDYBlI	3.0	1.0	2.5
AG0808	WTBDYBlI	4.0	1.0	2.5
AG1230	PGBDYIbI	5.0	1.0	2.4
M06R-614008	WTBDYLbr+YI	5.0	1.0	3.4
M06R-614016	W+PTBDYLbr+YI	4.0	1.0	2.9
MN1410R2F5-83	WGBDYBfI	5.0	1.0	3.1
MN1410R2F5-121	PGBDYIbI	5.0	1.0	3.4
MN1410R2F5-217	WGBDYBfI	5.0	1.0	3.3

UNIFORM TEST 0 Roundup-Ready, 2013

REGIONAL SUMMARY

					Plant	Seed	Seed	Composition	
	Yield	Rank	Maturity	Lodging	Height	Quality	Size	Protein	Oil
No. of Tests	3	3	4	4	2	4	4	4	4
Strain	bu/a	No.	Date	Score	In.	Score	g/100	%	%
AG0532	46.7	4	9/19	1.0	30	2.1	16.4	36.2	17.6
AG0231 (E)	42.4	8	-7.0	1.1	30	2.1	17.0	34.9	18.1
AG0808	49.2	3	2.3	1.3	34	2.4	16.9	33.9	17.9
AG1230	53.2	9	5.5	1.1	32	1.8	17.1	34.8	17.7
M06R-614008	44.6	1	-2.0	1.0	24	2.8	15.5	35.5	18.1
M06R-614016	45.6	6	5.3	1.0	32	3.3	16.1	36.3	16.9
MN1410R2F5-83	45.5	7	-2.3	1.5	34	2.3	15.0	37.4	16.8
MN1410R2F5-121	52.4	5	4.0	1.9	32	1.8	15.3	36.9	17.0
MN1410R2F5-217	47.1	2	3.0	1.5	32	2.4	15.9	36.6	17.2

123.8 Days After Planting

UNIFORM TEST 0 Roundup-Ready, 2013

2012-2013 2-YEAR MEAN

					Plant	Seed	Seed	Composition	
	Yield	Rank	Maturity	Lodging	Height	Size	Quality	Protein	Oil
No. of Tests	7	7	8	8	4	8	8	8	8
Strain	bu/a	No.	Date	Score	In.	g/100	Score	%	%
AG0532	45.9	3	9/15	1.0	31	1.5	15.2	34.9	17.3
AG0231 (E)	42.3	6	-5.5	1.1	32	1.8	16.4	33.8	17.6
AG0808	46.3	2	1.3	1.4	35	1.7	15.6	32.1	17.9
AG1230	49.2	1	3.9	1.1	33	1.4	15.9	33.9	17.6
M06R-614008	43.4	5	-1.6	1.1	29	2.1	15.0	34.2	17.6
M06R-614016	45.5	4	3.9	1.1	32	2.5	15.0	35.3	16.5

118.4 Days After Planting

UNIFORM TEST 0 Roundup-Ready, 2013

YIELD (bu/a)

Strain	Mean 3 Tests	Morris* MN	Rosemount MN	Casselton ND	St. Germain de-Grantham Que.
AG0532	46.7	25.7	31.1	58.4	50.7
AG0231 (E)	42.4	29.4	30.3	51.3	45.5
AG0808	49.2	25.7	29.0	60.2	58.3
AG1230	53.2	27.7	34.0	74.5	51.0
M06R-614008	44.6	29.0	32.0	59.0	42.9
M06R-614016	45.6	32.3	28.8	59.7	48.4
MN1410R2F5-83	45.5	23.0	31.7	55.3	49.4
MN1410R2F5-121	52.4	26.5	30.8	72.6	53.9
MN1410R2F5-217	47.1	31.7	29.6	59.8	51.9
Location Mean		27.9	30.8	61.2	50.2
C.V. (%)		17.1	10.6	16.4	8.5
L.S.D. (5%)		8.0	5.3	16.4	5.2
Row Sp. (In.)		30	30	30	14
Rows/Plot		4	4	4	4
Reps		3	3	3	3

*Data not included in mean.

UNIFORM TEST 0 Roundup-Ready, 2013

YIELD RANK

Strain	Yield Rank	Morris MN	Rosemount MN	Casselton ND	St. Germain de-Grantham Que.
AG0532	4	7	4	7	5
AG0231 (E)	8	3	6	9	8
AG0808	3	7	8	3	1
AG1230	9	5	1	1	4
M06R-614008	1	4	2	6	9
M06R-614016	6	1	9	5	7
MN1410R2F5-83	7	9	3	8	6
MN1410R2F5-121	5	6	5	2	2
MN1410R2F5-217	2	2	7	4	3

UNIFORM TEST 0 Roundup-Ready, 2013

MATURITY (date)

Strain	Mean 4 Tests	Morris MN	Rosemount MN	Casselton ND	St. Germain de-Grantham Que.
AG0532	9/19	9/19	9/19	9/24	9/15
AG0231 (E)	-7.0	-8	-9	-5	-6
AG0808	2.3	-3	-3	6	9
AG1230	5.5	3	3	7	9
M06R-614008	-2.0	-3	-5	-2	2
M06R-614016	5.3	4	2	6	9
MN1410R2F5-83	-2.3	-4	-6	1	0
MN1410R2F5-121	4.0	-1	-4	12	9
MN1410R2F5-217	3.0	-2	-3	9	8
Date Planted	5/18	5/29	5/24	5/13	5/8
Days to Mature	124	113	118	134	130

UNIFORM TEST 0 Roundup-Ready, 2013

LODGING (score)

Strain	Mean 4 Tests	Morris MN	Rosemount MN	Casselton ND	St. Germain de-Grantham Que.
AG0532	1.0	1.0	1.0	1.0	1.0
AG0231 (E)	1.1	1.0	1.0	1.0	1.3
AG0808	1.3	1.0	2.0	1.0	1.3
AG1230	1.1	1.0	1.0	1.0	1.3
M06R-614008	1.0	1.0	1.0	1.0	1.0
M06R-614016	1.0	1.0	1.0	1.0	1.0
MN1410R2F5-83	1.5	1.0	2.0	1.3	1.7
MN1410R2F5-121	1.9	1.0	2.0	3.0	1.7
MN1410R2F5-217	1.5	1.0	2.0	1.3	1.7

UNIFORM TEST 0 Roundup-Ready, 2013

PLANT HEIGHT (inches)

Strain	Mean 2 Tests	Morris MN	Rosemount MN	Casselton ND	St. Germain de-Grantham Que.
AG0532	30			29	30
AG0231 (E)	30			29	31
AG0808	34			31	37
AG1230	32			31	34
M06R-614008	24			22	26
M06R-614016	32			31	32
MN1410R2F5-83	34			34	33
MN1410R2F5-121	32			29	35
MN1410R2F5-217	32			30	34

UNIFORM TEST 0 Roundup-Ready, 2013

SEED QUALITY (score)

Strain	Mean 4 Tests	Morris MN	Rosemount MN	Casselton ND	St. Germain de-Grantham Que.
AG0532	2.1	1.0	2.0	1.0	4.3
AG0231 (E)	2.1	1.0	2.0	1.0	4.3
AG0808	2.4	2.0	2.0	1.0	4.7
AG1230	1.8	1.0	1.0	1.0	4.3
M06R-614008	2.8	2.0	2.0	2.0	5.0
M06R-614016	3.3	2.0	3.0	4.0	4.0
MN1410R2F5-83	2.3	2.0	2.0	1.0	4.3
MN1410R2F5-121	1.8	1.0	2.0	1.0	3.0
MN1410R2F5-217	2.4	2.0	2.0	1.0	4.7

UNIFORM TEST 0 Roundup-Ready, 2013

SEED SIZE (g/100)

Strain	Mean 4 Tests	Morris MN	Rosemount MN	Casselton ND	St. Germain de-Grantham Que.
AG0532	16.4	16.9	16.3	16.1	16.4
AG0231 (E)	17.0	16.9	15.7	18.3	17.0
AG0808	16.9	18.7	14.2	17.9	16.9
AG1230	17.1	17.4	16.1	18.2	16.6
M06R-614008	15.5	15.6	14.6	16.6	15.3
M06R-614016	16.1	18.2	13.4	16.8	15.8
MN1410R2F5-83	15.0	16.7	12.5	16.4	14.4
MN1410R2F5-121	15.3	15.6	11.9	19.1	14.4
MN1410R2F5-217	15.9	16.8	13.6	17.8	15.5

UNIFORM TEST 0 Roundup-Ready, 2013

PROTEIN (%)

Strain	Mean 4 Tests	Morris MN	Rosemount MN	Casselton ND	St. Germain de-Grantham Que.
AG0532	36.2	34.8	36.6	37.2	36.0
AG0231 (E)	34.9	34.4	35.7	33.8	35.8
AG0808	33.9	33.8	35.2	32.8	33.9
AG1230	34.8	33.9	35.1	34.6	35.7
M06R-614008	35.5	35.7	36.1	34.0	36.2
M06R-614016	36.3	36.0	37.0	35.1	37.1
MN1410R2F5-83	37.4	38.0	37.8	36.3	37.5
MN1410R2F5-121	36.9	37.2	38.1	34.9	37.3
MN1410R2F5-217	36.6	36.3	38.0	35.3	36.8

* Protein and Oil values converted to 13% moisture basis.

UNIFORM TEST 0 Roundup-Ready, 2013

OIL (%)

Strain	Mean 4 Tests	Morris MN	Rosemount MN	Casselton ND	St. Germain de-Grantham Que.
AG0532	17.6	18.6	17.7	17.8	16.4
AG0231 (E)	18.1	19.1	17.8	18.9	16.8
AG0808	17.9	17.6	18.2	18.3	17.4
AG1230	17.7	17.8	18.1	18.2	16.5
M06R-614008	18.1	19.2	18.2	18.5	16.5
M06R-614016	16.9	17.1	16.6	18.3	15.7
MN1410R2F5-83	16.8	17.1	16.2	18.2	15.7
MN1410R2F5-121	17.0	16.7	16.5	18.8	15.9
MN1410R2F5-217	17.2	17.8	16.4	18.1	16.4

Uniform Test I Roundup-Ready, 2013

Ent.	Strain	Parentage	Seed Source	Previous Testing	Gen. Comp.	Unique Traits
1	AG1631	na	Monsanto	**new**		
2.	AG1230 (E)	na	Monsanto	**1**		
3.	U07-135601R	na	Graef	**4**	F4	RR, dt
4.	AG2031	na	Monsanto	**1**		
5.	M00-530039	MN1803RR x M96-136086	Orf	6	F5	Rps1
6.	MN1410R2F5-4	MN1410*3 x R2 LINE FROM MONSANTO R2BC2	Orf	new	F5	R2
7.	MN1410R2F5-22	MN1410*3 x R2 LINE FROM MONSANTO R2BC2	Orf	new	F5	R2
8.	MN1410R2F5-117	MN1410*3 x R2 LINE FROM MONSANTO R2BC2	Orf	new	F5	R2
9.	U12-903108R	U07-135601R x U07-135377R	Graef	new	F5	RR1
10.	U12-904114R	U07-135601R x U07-135377R	Graef	new	F5	RR1
11.	U12-920105R	U07-135601R x U08-932024R	Graef	new	F5	RR1
12.	U12-922122R	U07-135601R x U08-932024R	Graef	new	F5	RR1

UNIFORM TEST I Roundup-Ready, 2013

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	Shattering Score Manhattan KS	Chlorosis Score Danvers MN	Green Stem Score Wanatah IN
AG1631	PGBBYIbI	4.0	2.8	1.0
AG1230 (E)	PGBDYIbI	4.0	2.9	1.0
U07-135601R	PGTDYIbD	2.0	3.4	1.0
AG2031	PTBDYBlI	4.0	3.5	1.0
M00-530039	PLtTDYBrI	3.0	3.4	1.0
MN1410R2F5-4	PGBDYYI	3.0	4.0	1.0
MN1410R2F5-22	PGBDYIbI	3.0	3.9	1.0
MN1410R2F5-117	PGBDYIbI	4.0	3.8	1.0
U12-903108R	PTBSYBlD	2.0	3.9	1.0
U12-904114R	PT+GTSYBlD	1.0	4.1	1.0
U12-920105R	PGTDYIbI	1.0	4.1	1.0
U12-922122R	PGTDYIbI	2.0	3.9	1.0

UNIFORM TEST I Roundup-Ready, 2013

REGIONAL SUMMARY

					Plant	Seed	Seed	Composition	
	Yield	Rank	Maturity	Lodging	Height	Quality	Size	Protein	Oil
No. of Tests	9	9	6	7	7	5	7	3	3
Strain	bu/a	No.	Date	Score	In.	Score	g/100	%	%
AG1631	58.5	8	9/19	1.3	29	1.2	14.5	32.6	19.0
AG1230 (E)	57.6	9	-1.8	1.4	28	1.6	17.8	34.0	18.2
U07-135601R	58.7	7	4.5	1.1	27	1.3	15.3	33.2	18.5
AG2031	64.1	2	4.8	1.3	32	1.3	18.1	33.9	18.3
M00-530039	55.3	11	-1.5	1.3	27	1.6	18.0	34.4	18.5
MN1410R2F5-4	48.1	12	-2.4	1.4	29	1.5	15.7	33.8	18.8
MN1410R2F5-22	56.8	10	-0.8	1.3	31	2.0	17.0	35.5	17.8
MN1410R2F5-117	59.7	6	1.1	1.8	33	1.6	16.1	34.1	18.0
U12-903108R	61.9	3	2.6	1.3	33	1.3	17.0	34.7	18.3
U12-904114R	64.4	1	4.4	1.4	31	1.4	18.0	34.4	18.1
U12-920105R	60.2	5	2.8	1.2	30	1.5	14.1	32.5	18.6
U12-922122R	61.7	4	5.4	1.3	33	1.3	17.1	33.5	18.3

126.7 Days After Planting

UNIFORM TEST I Roundup-Ready, 2013

YIELD (bu/a)

Strain	Mean 9 Tests	Lafayette IN	Wanatah IN	Ingham County MI	Saginaw County MI	Lamberton MN	Waseca MN	Cotesfield NE	Mead NE	St. Hyacinthe Que.
AG1631	58.5	55.8	58.1	58.6	50.3	50.5	56.3	69.2	71.4	56.2
AG1230 (E)	57.6	55.6	53.0	54.9	50.1	53.5	54.3	64.8	70.9	61.1
U07-135601R	58.7	61.7	51.0	51.6	47.4	48.8	57.3	72.2	78.4	59.9
AG2031	64.1	63.4	71.0	60.5	56.0	51.4	56.4	62.1	85.4	70.5
M00-530039	55.3	52.5	50.5	54.8	41.7	49.3	55.4	57.6	74.3	61.3
MN1410R2F5-4	48.1	43.5	36.1	30.9	42.4	49.2	50.2	65.8	58.3	56.8
MN1410R2F5-22	56.8	58.5	46.0	43.0	43.2	50.2	64.7	61.4	77.9	66.1
MN1410R2F5-117	59.7	61.3	52.7	51.0	50.5	51.1	66.3	56.7	85.9	61.9
U12-903108R	61.9	63.3	56.6	57.0	51.8	45.7	63.5	67.4	86.3	65.5
U12-904114R	64.4	67.6	61.6	61.5	52.0	50.4	67.5	64.9	87.7	66.4
U12-920105R	60.2	61.7	52.5	58.7	49.1	52.9	62.0	66.7	76.9	61.5
U12-922122R	61.7	65.6	53.0	60.7	54.4	49.5	58.7	69.6	81.9	61.8
Location Mean		59.2	53.5	53.6	49.1	50.2	59.4	64.9	77.9	62.4
C.V. (%)		7.4	11.6	7.4	5.2	6.8	6.8	9.1	6.5	7.8
L.S.D. (5%)		7.5	10.5	10.8	7.0	6.7	6.7	13.0	11.1	4.0
Row Sp. (In.)		30	30	15	15	30	30	30	30	14
Rows/Plot		4	4	6	6	4	4	4	4	4
Reps		3	3	2	2	3	3	2	2	3

*Data not included in mean.

UNIFORM TEST I Roundup-Ready, 2013

YIELD RANK

Strain	Yield Rank	Lafayette IN	Wanatah IN	Ingham County MI	Saginaw County MI	Lamberton MN	Waseca MN	Cotesfield NE	Mead NE	St. Hyacinthe Que.
AG1631	8	9	3	5	6	5	9	3	10	12
AG1230 (E)	9	10	5	7	7	1	11	8	11	9
U07-135601R	7	5	9	9	9	11	7	1	6	10
AG2031	2	3	1	3	1	3	8	9	4	1
M00-530039	11	11	10	8	12	9	10	11	9	8
MN1410R2F5-4	12	12	12	12	11	10	12	6	12	11
MN1410R2F5-22	10	8	11	11	10	7	3	10	7	3
MN1410R2F5-117	6	7	7	10	5	4	2	12	3	5
U12-903108R	3	4	4	6	4	12	4	4	2	4
U12-904114R	1	1	2	1	3	6	1	7	1	2
U12-920105R	5	5	8	4	8	2	5	5	8	7
U12-922122R	4	2	5	2	2	8	6	2	5	6

UNIFORM TEST I Roundup-Ready, 2013

MATURITY (date)

Strain	Mean 6 Tests	Lafayette IN	Wanatah IN	Ingham County MI	Saginaw County MI	Lamberton MN	Waseca MN	Cotesfield NE	Mead NE	St. Hyacinthe Que.
AG1631	9/19	9/8	9/11			9/30	9/25		9/17	9/24
AG1230 (E)	-1.8	-4	-3			3	-4		-2	-1
U07-135601R	4.5	5	2			0	7		7	6
AG2031	4.8	2	4			3	8		6	6
M00-530039	-1.5	-3	-2			-3	-1		0	0
MN1410R2F5-4	-2.4	-7	-9			4	-1		-3	1
MN1410R2F5-22	-0.8	-2	-6			3	2		-2	0
MN1410R2F5-117	1.1	0	0			4	3		-1	0
U12-903108R	2.6	3	2			-6	6		4	7
U12-904114R	4.4	3	1			4	5		7	7
U12-920105R	2.8	2	1			2	4		5	3
U12-922122R	5.4	5	4			1	8		8	7
Date Planted	5/15	5/22	5/14	5/10	5/16	5/17	5/15	5/22	5/15	5/8
Days to Mature	127	109	120			136	133		125	139

UNIFORM TEST I Roundup-Ready, 2013

LODGING (score)

Strain	Mean 7 Tests	Lafayette IN	Wanatah IN	Ingham County MI	Saginaw County MI	Lamberton MN	Waseca MN	Cotesfield NE	Mead NE	St. Hyacinthe Que.
AG1631	1.3	1.0	1.0	2.0	1.0	1.0	2.0		1.0	
AG1230 (E)	1.4	1.0	1.0	2.0	1.0	2.0	2.0		1.0	
U07-135601R	1.1	1.0	1.0	1.0	1.0	1.0	2.0		1.0	
AG2031	1.3	1.0	1.0	1.5	1.0	1.0	2.0		1.5	
M00-530039	1.3	1.0	1.0	2.0	1.0	1.0	2.0		1.0	
MN1410R2F5-4	1.4	1.2	1.0	1.5	1.0	2.0	2.0		1.0	
MN1410R2F5-22	1.3	1.0	1.2	2.0	1.0	1.0	2.0		1.0	
MN1410R2F5-117	1.8	1.2	1.2	2.0	1.0	1.0	3.0		3.0	
U12-903108R	1.3	1.0	1.2	1.0	1.0	2.0	2.0		1.0	
U12-904114R	1.4	1.0	1.0	2.0	1.0	2.0	2.0		1.0	
U12-920105R	1.2	1.0	1.0	1.5	1.0	1.0	2.0		1.0	
U12-922122R	1.3	1.0	1.0	1.0	1.0	1.0	3.0		1.0	

UNIFORM TEST I Roundup-Ready, 2013

PLANT HEIGHT (inches)

Strain	Mean 7 Tests	Lafayette IN	Wanatah IN	Ingham County MI	Saginaw County MI	Lamberton MN	Waseca MN	Cotesfield NE	Mead NE	St. Hyacinthe Que.
AG1631	29	30	27	32	27		29		35	26
AG1230 (E)	28	29	26	31	25		28		32	27
U07-135601R	27	26	25	28	25		26		28	28
AG2031	32	33	31	35	31		31		37	29
M00-530039	27	28	25	31	22		25		33	25
MN1410R2F5-4	29	29	27	29	26		30		33	28
MN1410R2F5-22	31	33	30	31	27		33		38	28
MN1410R2F5-117	33	37	31	34	29		34		36	29
U12-903108R	33	32	26	37	33		34		36	32
U12-904114R	31	31	28	32	29		33		35	29
U12-920105R	30	32	29	34	26		29		36	27
U12-922122R	33	35	29	35	29		32		38	30

UNIFORM TEST I Roundup-Ready, 2013

SEED QUALITY (score)

Strain	Mean 5 Tests	Lafayette IN	Wanatah IN	Ingham County MI	Saginaw County MI	Lamberton MN	Waseca MN	Cotesfield NE	Mead NE	St. Hyacinthe Que.
AG1631	1.2	1.0	1.0			1.0	1.0			2.0
AG1230 (E)	1.6	1.0	1.0			1.0	2.0			3.0
U07-135601R	1.3	1.0	1.0			1.0	1.0			2.3
AG2031	1.3	1.0	1.0			1.0	1.0			2.3
M00-530039	1.6	1.0	1.0			1.0	2.0			3.0
MN1410R2F5-4	1.5	1.0	1.0			1.0	2.0			2.3
MN1410R2F5-22	2.0	1.0	1.0			2.0	2.0			4.0
MN1410R2F5-117	1.6	1.0	1.0			2.0	1.0			3.0
U12-903108R	1.3	1.0	1.0			1.0	2.0			1.5
U12-904114R	1.4	1.0	1.0			1.0	2.0			1.8
U12-920105R	1.5	1.0	1.0			1.0	2.0			2.3
U12-922122R	1.3	1.0	1.0			1.0	1.0			2.7

UNIFORM TEST I Roundup-Ready, 2013

SEED SIZE (g/100)

Strain	Mean 7 Tests	Lafayette IN	Wanatah IN	Ingham County MI	Saginaw County MI	Lamberton MN	Waseca MN	Cotesfield NE	Mead NE	St. Hyacinthe Que.
AG1631	14.5	13.5	13.6	17.6	13.6	14.7	14.6			14.3
AG1230 (E)	17.8	16.3	18.0	18.9	16.1	17.9	17.5			19.7
U07-135601R	15.3	14.4	15.1	18.1	14.5	14.1	15.5			15.2
AG2031	18.1	16.1	18.1	21.8	16.1	18.5	17.5			18.9
M00-530039	18.0	16.1	18.3	19.8	16.3	20.4	17.0			18.3
MN1410R2F5-4	15.7	14.1	15.2	14.5	15.6	17.9	15.4			17.1
MN1410R2F5-22	17.0	16.2	15.4	16.8	16.5	19.1	16.1			18.8
MN1410R2F5-117	16.1	14.0	15.1	19.0	14.9	17.1	15.2			17.2
U12-903108R	17.0	15.0	16.3	19.8	16.4	17.0	17.4			17.2
U12-904114R	18.0	16.3	17.6	21.6	17.2	17.7	17.5			18.0
U12-920105R	14.1	12.2	12.4	17.7	13.5	14.3	13.7			14.8
U12-922122R	17.1	15.0	15.2	21.4	16.9	17.6	16.3			17.4

UNIFORM TEST I Roundup-Ready, 2013

PROTEIN (%)

Strain	Mean 3 Tests	Lamberton MN	Waseca MN	St. Hyacinthe Que.
AG1631	32.6	33.8	32.8	31.2
AG1230 (E)	34.0	35.0	33.5	33.4
U07-135601R	33.2	34.3	32.2	33.1
AG2031	33.9	35.4	33.5	32.9
M00-530039	34.4	35.8	33.5	33.9
MN1410R2F5-4	33.8	35.4	33.9	32.2
MN1410R2F5-22	35.5	36.6	34.8	35.1
MN1410R2F5-117	34.1	34.9	34.1	33.4
U12-903108R	34.7	35.5	34.4	34.3
U12-904114R	34.4	35.0	33.8	34.3
U12-920105R	32.5	33.6	32.6	31.2
U12-922122R	33.5	34.4	33.2	32.9

* Protein and Oil values converted to 13% moisture basis.

UNIFORM TEST I Roundup-Ready, 2013

OIL (%)

Strain	Mean 3 Tests	Lamberton MN	Waseca MN	St. Hyacinthe Que.
AG1631	19.0	19.9	18.9	18.3
AG1230 (E)	18.2	19.1	18.1	17.4
U07-135601R	18.5	19.1	18.9	17.6
AG2031	18.3	19.3	18.0	17.6
M00-530039	18.5	19.5	18.6	17.4
MN1410R2F5-4	18.8	19.3	18.9	18.2
MN1410R2F5-22	17.8	18.5	17.9	17.1
MN1410R2F5-117	18.0	18.8	17.8	17.4
U12-903108R	18.3	19.1	18.3	17.6
U12-904114R	18.1	19.1	18.2	17.1
U12-920105R	18.6	19.5	18.8	17.6
U12-922122R	18.3	18.5	18.6	17.7

Uniform Test II Roundup-Ready, 2013

Ent.	Strain	Parentage	Seed Source	Previous Testing	Gen. Comp.	Unique Traits
1	U06-814223R (II)	na	Graef	**3**	F5	RR,Dt
2.	AG2031 (E)	na	Monsanto	**1**		
3.	AG2606	na	Monsanto	**3**		
4.	NEX2905A0R (L)	na	Graef	**8**		Det.
5.	U07-135601R	na	Graef	2	F4	RR, dt
6.	U07-135636R	na	Graef	3	F4	RR, SCN?, dt
7.	U07-236940R	NEX2403K2R x U03-130145R	Graef	2	F5	RR,SCN?
8.	U11-607166R	U07-338254R X U07-135478R	Graef	1	F4	SCN, Rc, Rk, BSR, SDS, dt
9.	U11-607174R	U07-338254R X U07-135478R	Graef	11 UT III-RR	F4	SCN LR, NR
10.	U11-609165R	U07-338254R X U07-135478R	Graef	11 UT III-RR	F4	SCN LR, NR
11.	U11-924119R	U07-439042R X U07-135478R	Graef	1	F4	SCN, Rc, Rk, BSR, SDS, dt
12.	U11-926111R	U07-439042R X U07-135478R	Graef	1	F4	SCN LR, NR
13.	U11-931121R	U07-236486R X U07-135478R	Graef	1	F4	SCN, Rc, Rk, BSR, SDS, dt
14.	U12-902102R	U07-135601R x U07-135377R	Graef	new	F5	RR1
15.	U12-902104R	U07-135601R x U07-135377R	Graef	new	F5	RR1
16.	U12-902108R	U07-135601R x U07-135377R	Graef	new	F5	RR1
17.	U12-907117R	U07-135601R x U07-135377R	Graef	new	F5	RR1
18.	U12-909110R	U07-135601R x U07-135377R	Graef	new	F5	RR1
19.	U12-920124R	U07-135601R x U08-932024R	Graef	new	F5	RR1
20.	U12-923116R	U07-135601R x U08-932024R	Graef	new	F5	RR1
21.	U12-923122R	U07-135601R x U08-932024R	Graef	new	F5	RR1
22.	U12-924117R	U07-135601R x U08-932024R	Graef	new	F5	RR1
23.	U12-926110R	U07-135601R x U08-932024R	Graef	new	F5	RR1
24.	U12-926115R	U07-135601R x U08-932024R	Graef	new	F5	RR1
25.	U12-927105R	U07-135601R x U08-932024R	Graef	new	F5	RR1

UNIFORM TEST II Roundup-Ready, 2013

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	Shattering Score Manhattan KS	Chlorosis Score Danvers MN	Green Stem Score Wanatah IN
U06-814223R (II)	WTBDYBlD	1.0	3.0	1.0
AG2031 (E)	PTBDYBlI	3.0	3.4	1.0
AG2606	PGBDYIbI	1.0	3.5	1.0
NEX2905A0R (L)	PGBDYIbD	3.0	3.5	1.0
U07-135601R	PGTDYIbD	2.0	3.9	1.0
U07-135636R	WTTDYBlI	2.0	3.3	1.0
U07-236940R	PTTDYBlI	4.0	2.5	1.0
U11-607166R	PGTDYIbD	4.0	2.9	1.0
U11-607174R	PGTDYIbD	3.0	3.5	1.0
U11-609165R	PGTDYIbD	2.0	2.8	1.0
U11-924119R	PT+GBSYBl+IbD	2.0	3.9	1.0
U11-926111R	PTBDYBlD	2.0	3.6	1.0
U11-931121R	WTBDYBlD	2.0	4.0	1.0
U12-902102R	PGBDYIbD	2.0	3.4	1.0
U12-902104R	PTTSYBlD	3.0	2.9	1.0
U12-902108R	PTBDYBlD	2.0	3.4	1.0
U12-907117R	PGTSYIbD	2.0	3.6	1.0
U12-909110R	PGTDYIbI	2.0	2.9	1.0
U12-920124R	PGTDYIbI	2.0	3.1	1.0
U12-923116R	PGTDYIbD	3.0	3.3	1.0
U12-923122R	PGTDYIbD	3.0	3.8	1.0
U12-924117R	PGBDYIbI	4.0	3.4	1.0
U12-926110R	PGBDYIbD	4.0	3.5	1.0
U12-926115R	PGTDYIbI	2.0	3.4	1.0
U12-927105R	PGBDYIbI	4.0	3.0	1.0

UNIFORM TEST II Roundup-Ready, 2013

REGIONAL SUMMARY

No. of Tests Strain	Yield 10 bu/a	Rank 10 No.	Maturity 8 Date	Lodging 9 Score	Plant Height 6 In.	Seed Quality 6 Score	Seed Size 9 g/100	Composition Protein 5 %	 Oil 5 %
U06-814223R (II)	61.1	21	9/21	1.1	27	1.4	15.4	34.5	19.7
AG2031 (E)	64.2	12	-1.6	1.4	33	1.4	18.2	35.2	19.4
AG2606	64.9	8	1.5	1.2	34	1.0	16.0	37.1	18.0
NEX2905A0R (L)	63.4	15	4.6	1.1	32	1.3	13.9	33.7	19.6
U07-135601R	60.9	22	-2.3	1.2	27	1.0	15.8	34.5	19.6
U07-135636R	64.3	11	2.3	1.3	37	1.1	16.9	34.1	20.3
U07-236940R	60.2	25	-0.4	1.2	28	1.3	14.5	34.0	19.4
U11-607166R	65.8	5	7.2	1.3	32	1.0	15.8	34.5	19.8
U11-607174R	66.9	2	7.5	1.3	31	1.2	15.4	34.4	19.7
U11-609165R	64.0	13	8.2	1.3	30	1.4	15.3	34.5	19.7
U11-924119R	60.5	24	2.6	1.2	31	1.1	14.6	33.6	19.6
U11-926111R	60.9	22	1.2	1.3	29	1.2	14.7	33.8	19.8
U11-931121R	64.7	9	1.3	1.2	35	1.0	14.9	33.9	20.4
U12-902102R	63.3	16	3.0	1.2	34	1.3	16.2	34.9	19.5
U12-902104R	64.5	10	0.5	1.4	33	1.0	14.9	34.6	19.8
U12-902108R	61.7	19	0.1	1.1	31	1.2	14.7	34.8	19.8
U12-907117R	61.4	20	3.6	1.2	28	1.2	17.0	33.7	20.2
U12-909110R	63.1	18	3.1	1.4	33	1.2	14.7	34.6	19.2
U12-920124R	65.4	6	4.6	1.1	36	1.2	15.8	34.4	19.7
U12-923116R	66.1	4	2.1	1.6	32	1.1	14.8	34.5	19.4
U12-923122R	65.2	7	2.0	1.3	32	1.4	14.1	34.6	19.0
U12-924117R	68.6	1	3.7	1.2	33	1.1	15.4	34.6	19.1
U12-926110R	64.0	13	3.9	1.4	34	1.2	15.7	34.9	19.2
U12-926115R	66.3	3	-0.1	1.2	33	1.0	13.6	34.6	19.8
U12-927105R	63.3	16	4.4	1.3	36	1.0	15.0	34.7	19.0

125.5 Days After Planting

UNIFORM TEST II Roundup-Ready, 2013

2012-2013 2-YEAR MEAN

Strain	Yield	Rank	Maturity	Lodging	Plant Height	Seed Quality	Seed Size	Composition	
								Protein	Oil
No. of Tests	19	19	17	17	11	11	18	12	12
	bu/a	No.	Date	Score	In.	Score	g/100	%	%
U06-814223R (II)	59.4	7	9/19	1.1	28	1.5	14.8	34.2	19.8
AG2031 (E)	59.8	6	-3.1	1.3	33	1.7	17.1	34.8	19.4
AG2606	61.9	2	1.6	1.2	34	1.3	15.2	36.9	18.0
NEX2905A0R (L)	59.9	4	6.2	1.1	33	1.3	13.8	34.1	19.2
U07-135601R	57.9	9	-2.9	1.1	28	1.5	15.1	34.5	19.5
U07-135636R	59.9	4	2.6	1.3	39	1.5	16.4	34.0	20.0
U11-607166R	62.2	1	7.6	1.2	32	1.6	15.7	34.7	19.5
U11-925119R	57.5	10	3.6	1.1	34	1.4	14.5	33.5	19.4
U11-926111R	59.0	8	2.4	1.3	31	1.4	14.6	33.9	19.8
U11-931121R	61.7	3	2.4	1.2	35	1.7	14.8	33.8	20.3

124.5 Days After Planting

UNIFORM TEST II Roundup-Ready, 2013

YIELD (bu/a)

Strain	Mean 10 Tests	Urbana Il	Lafayette IN	Wanatah IN	Ingham County MI	Lenawee County MI	Lamberton MN	Waseca MN	Westbrook MN	Cotesfield NE	Mead NE
U06-814223R (II)	61.1	53.9	56.1	54.6	53.0	69.2	55.6	62.8	54.0	72.6	79.3
AG2031 (E)	64.2	62.1	62.4	62.7	57.7	78.1	54.4	63.5	52.9	68.5	79.7
AG2606	64.9	66.5	69.8	64.2	56.6	72.4	53.3	60.0	51.7	76.3	77.9
NEX2905A0R (L)	63.4	62.0	73.3	63.5	54.9	71.4	51.4	62.7	44.8	70.1	80.2
U07-135601R	60.9	59.9	67.2	56.7	53.3	65.5	53.3	57.0	47.2	66.5	82.3
U07-135636R	64.3	68.4	66.1	58.7	62.6	80.1	47.1	58.2	49.5	69.5	82.9
U07-236940R	60.2	55.5	56.1	53.7	52.2	67.2	55.3	58.9	54.0	74.2	75.1
U11-607166R	65.8	65.6	63.4	65.9	58.3	84.6	50.0	66.7	46.8	75.9	80.8
U11-607174R	66.9	65.2	74.6	64.9	58.6	79.0	54.8	65.0	53.3	72.2	81.1
U11-609165R	64.0	61.4	64.6	59.6	65.6	69.8	53.2	55.6	54.3	63.9	91.7
U11-924119R	60.5	58.0	57.5	55.9	51.0	76.4	51.3	57.9	53.6	68.8	74.9
U11-926111R	60.9	55.9	56.9	57.7	55.7	72.7	57.7	58.0	52.3	62.6	79.5
U11-931121R	64.7	57.9	67.1	58.6	57.1	73.5	53.2	66.2	56.2	69.9	87.2
U12-902102R	63.3	60.6	62.0	56.4	64.3	74.4	50.8	64.3	55.6	70.5	73.7
U12-902104R	64.5	57.5	63.7	60.3	60.2	76.0	54.2	66.6	52.3	72.6	81.6
U12-902108R	61.7	58.4	62.7	58.9	50.0	74.0	47.5	65.8	54.8	67.7	77.2
U12-907117R	61.4	60.1	62.7	57.7	55.7	72.2	55.4	64.5	54.2	62.3	69.3
U12-909110R	63.1	58.1	61.3	53.9	56.4	71.9	55.3	63.0	54.2	74.2	82.6
U12-920124R	65.4	65.6	72.4	57.7	60.0	77.9	50.6	65.2	46.4	74.2	84.1
U12-923116R	66.1	62.1	68.7	57.5	55.3	78.3	57.3	67.5	52.1	73.9	88.3
U12-923122R	65.2	59.0	70.5	57.4	58.7	79.4	55.6	66.5	54.6	71.3	79.5
U12-924117R	68.6	67.8	70.5	62.9	60.2	85.8	52.3	65.0	58.1	77.5	86.4
U12-926110R	64.0	59.1	67.8	59.1	57.5	75.8	56.7	66.1	52.6	68.8	76.5
U12-926115R	66.3	60.3	68.0	61.2	64.0	80.8	55.1	68.4	51.5	70.6	83.5
U12-927105R	63.3	63.0	67.8	66.2	57.1	76.6	52.2	57.3	46.9	66.9	79.1
Location Mean		61.0	65.3	59.4	57.4	75.3	53.3	62.9	52.2	70.5	80.6
C.V. (%)		4.9	9.5	9.0	11.9	5.4	8.7	7.4	10.5	6.4	7.8
L.S.D. (5%)		6.2	10.1	8.7	17.0	10.1	7.6	7.5	8.8	9.3	13.0
Row Sp. (In.)		30	30	30	15	15	30	30	30	30	30
Rows/Plot		4	4	4	6	6	4	4	4	4	4
Reps		2	3	3	2	2	3	3	3	2	2

*Data not included in mean.

UNIFORM TEST II Roundup-Ready, 2013

YIELD RANK

Strain	Yield Rank	Urbana Il	Lafayette IN	Wanatah IN	Ingham County MI	Lenawee County MI	Lamberton MN	Waseca MN	Westbrook MN	Cotesfield NE	Mead NE
U06-814223R (II)	21	25	24	23	22	23	4	16	9	9	17
AG2031 (E)	12	8	19	7	11	8	11	14	13	19	14
AG2606	8	3	6	4	15	18	13	18	18	2	19
NEX2905A0R (L)	15	10	2	5	20	21	19	17	25	14	13
U07-135601R	22	15	11	20	21	25	13	24	21	22	9
U07-135636R	11	1	13	13	4	4	25	20	20	16	7
U07-236940R	25	24	24	25	23	24	7	19	9	5	22
U11-607166R	5	4	16	2	10	2	23	3	23	3	12
U11-607174R	2	6	1	3	9	6	10	10	12	10	11
U11-609165R	13	11	14	10	1	22	15	25	6	23	1
U11-924119R	24	20	22	22	24	11	20	22	11	18	23
U11-926111R	22	23	23	15	17	17	1	21	15	24	15
U11-931121R	9	21	12	14	13	16	15	6	2	15	3
U12-902102R	16	12	20	21	2	14	21	13	3	13	24
U12-902104R	10	22	15	9	5	12	12	4	15	8	10
U12-902108R	19	18	17	12	25	15	24	8	4	20	20
U12-907117R	20	14	17	15	18	19	6	12	7	25	25
U12-909110R	18	19	21	24	16	20	7	15	7	4	8
U12-920124R	6	4	3	15	7	9	22	9	24	6	5
U12-923116R	4	8	7	18	19	7	2	2	17	7	2
U12-923122R	7	17	4	19	8	5	4	5	5	11	16
U12-924117R	1	2	4	6	6	1	17	10	1	1	4
U12-926110R	13	16	9	11	12	13	3	7	14	17	21
U12-926115R	3	13	8	8	3	3	9	1	19	12	6
U12-927105R	16	7	9	1	14	10	18	23	22	21	18

UNIFORM TEST II Roundup-Ready, 2013

MATURITY (date)

Strain	Mean 8 Tests	Urbana Il	Lafayette IN	Wanatah IN	Ingham County MI	Lenawee County MI	Lamberton MN	Waseca MN	Westbrook MN	Cotesfield NE	Mead NE
U06-814223R (II)	9/21	9/10	9/14	9/16		9/24	10/1	10/4	9/30		9/14
AG2031 (E)	-1.6	-2	-2	-1		-3	0	-2	-2		-1
AG2606	1.5	3	4	4		0	0	1	-2		2
NEX2905A0R (L)	4.6	7	8	9		6	2	2	-2		5
U07-135601R	-2.3	-2	-1	-2		-2	-2	-3	-4		-2
U07-135636R	2.3	3	4	3		3	2	0	0		4
U07-236940R	-0.4	0	2	2		0	-2	-2	-4		1
U11-607166R	7.2	11	8	10		8	6	5	3		7
U11-607174R	7.5	11	10	9		9	7	4	3		7
U11-609165R	8.2	10	11	9		9	8	6	3		10
U11-924119R	2.6	4	4	4		6	2	0	-2		3
U11-926111R	1.2	0	3	3		3	2	-1	-2		2
U11-931121R	1.3	1	4	3		3	1	0	-4		2
U12-902102R	3.0	5	5	5		5	3	-1	0		2
U12-902104R	0.5	0	3	3		3	0	-2	-4		1
U12-902108R	0.1	0	2	3		2	0	-5	-2		1
U12-907117R	3.6	5	5	5		5	3	2	0		4
U12-909110R	3.1	6	5	3		5	3	1	-2		4
U12-920124R	4.6	8	8	7		5	6	2	-4		5
U12-923116R	2.1	2	4	4		3	3	0	-4		5
U12-923122R	2.0	2	4	5		4	1	0	-2		2
U12-924117R	3.7	6	6	6		5	1	1	2		3
U12-926110R	3.9	3	6	7		6	3	4	0		2
U12-926115R	-0.1	1	5	3		0	1	-1	-12		2
U12-927105R	4.4	6	5	9		6	3	2	-2		6
Date Planted	5/19	5/17	5/22	5/14	6/4	5/17	5/17	5/15	5/17	5/22	5/15
Days to Mature	126	116	115	125		130	137	142	136		122

UNIFORM TEST II Roundup-Ready, 2013

LODGING (score)

Strain	Mean 9 Tests	Urbana Il	Lafayette IN	Wanatah IN	Ingham County MI	Lenawee County MI	Lamberton MN	Waseca MN	Westbrook MN	Cotesfield NE	Mead NE
U06-814223R (II)	1.1	1.0	1.0	1.0	1.0	1.0	1.0	2.0	1.0		1.0
AG2031 (E)	1.4	1.0	1.0	1.0	2.0	2.0	1.0	2.0	2.0		1.0
AG2606	1.2	1.0	1.0	1.0	1.0	1.5	1.0	2.0	1.0		1.0
NEX2905A0R (L)	1.1	1.0	1.0	1.0	1.0	1.0	1.0	2.0	1.0		1.0
U07-135601R	1.2	1.0	1.0	1.0	1.5	1.0	1.0	2.0	1.0		1.0
U07-135636R	1.3	1.0	1.0	1.0	2.0	1.0	2.0	2.0	1.0		1.0
U07-236940R	1.2	1.0	1.0	1.0	1.5	1.0	1.0	2.0	1.0		1.0
U11-607166R	1.3	1.0	1.0	1.0	2.0	1.5	1.0	2.0	1.0		1.0
U11-607174R	1.3	1.0	1.0	1.0	1.0	1.5	2.0	2.0	1.0		1.0
U11-609165R	1.3	1.0	1.0	1.0	2.0	1.0	2.0	2.0	1.0		1.0
U11-924119R	1.2	1.0	1.0	1.0	1.5	1.0	1.0	2.0	1.0		1.0
U11-926111R	1.3	1.0	1.0	1.0	1.5	1.0	1.0	2.0	2.0		1.0
U11-931121R	1.2	1.0	1.0	1.0	1.5	1.0	1.0	2.0	1.0		1.0
U12-902102R	1.2	1.0	1.0	1.0	1.0	2.0	1.0	2.0	1.0		1.0
U12-902104R	1.4	1.0	1.0	1.0	2.0	2.0	2.0	2.0	1.0		1.0
U12-902108R	1.1	1.0	1.0	1.0	1.0	1.0	1.0	2.0	1.0		1.0
U12-907117R	1.2	1.0	1.0	1.0	1.5	1.0	1.0	2.0	1.0		1.0
U12-909110R	1.4	1.0	1.0	1.0	2.0	2.0	2.0	2.0	1.0		1.0
U12-920124R	1.1	1.0	1.0	1.0	1.0	1.0	1.0	2.0	1.0		1.0
U12-923116R	1.6	1.0	1.0	1.0	2.0	2.5	2.0	2.0	1.0		1.5
U12-923122R	1.3	1.0	1.0	1.0	2.0	1.5	1.0	2.0	1.0		1.0
U12-924117R	1.2	1.0	1.0	1.0	2.0	1.0	1.0	2.0	1.0		1.0
U12-926110R	1.4	1.0	1.0	1.0	3.0	2.0	1.0	2.0	1.0		1.0
U12-926115R	1.2	1.0	1.0	1.0	1.5	1.0	1.0	2.0	1.0		1.0
U12-927105R	1.3	1.0	1.0	1.0	1.5	2.0	1.0	2.0	1.0		1.5

UNIFORM TEST II Roundup-Ready, 2013

PLANT HEIGHT (inches)

Strain	Mean 6 Tests	Urbana Il	Lafayette IN	Wanatah IN	Ingham County MI	Lenawee County MI	Lamberton MN	Waseca MN	Westbrook MN	Cotesfield NE	Mead NE
U06-814223R (II)	27	29	28	24	27	26		27			
AG2031 (E)	33	36	34	32	33	32		32			
AG2606	34	34	33	32	33	34		35			
NEX2905A0R (L)	32	32	31	33	32	30		35			
U07-135601R	27	28	27	24	30	29		26			
U07-135636R	37	39	38	34	37	36		36			
U07-236940R	28	29	29	28	27	26		30			
U11-607166R	32	32	28	30	33	31		35			
U11-607174R	31	32	32	30	28	30		32			
U11-609165R	30	31	29	28	35	25		32			
U11-924119R	31	31	30	28	34	30		33			
U11-926111R	29	30	29	28	30	26		33			
U11-931121R	35	35	36	33	35	34		39			
U12-902102R	34	36	33	33	33	31		36			
U12-902104R	33	32	33	31	34	30		38			
U12-902108R	31	33	31	30	29	28		35			
U12-907117R	28	27	27	26	30	25		32			
U12-909110R	33	33	35	30	34	31		35			
U12-920124R	36	38	37	35	33	32		39			
U12-923116R	32	32	32	31	31	29		35			
U12-923122R	32	31	31	29	35	30		35			
U12-924117R	33	34	34	32	34	32		34			
U12-926110R	34	32	34	31	36	31		37			
U12-926115R	33	33	35	32	33	31		33			
U12-927105R	36	40	37	37	33	33		37			

UNIFORM TEST II Roundup-Ready, 2013

SEED QUALITY (score)

Strain	Mean 6 Tests	Urbana Il	Lafayette IN	Wanatah IN	Ingham County MI	Lenawee County MI	Lamberton MN	Waseca MN	Westbrook MN	Cotesfield NE	Mead NE
U06-814223R (II)	1.4	1.0	1.0	1.5			2.0	1.0	2.0		
AG2031 (E)	1.4	1.0	1.0	1.5			2.0	2.0	1.0		
AG2606	1.0	1.0	1.0	1.0			1.0	1.0	1.0		
NEX2905A0R (L)	1.3	1.0	1.0	1.5			2.0	1.0	1.0		
U07-135601R	1.0	1.0	1.0	1.0			1.0	1.0	1.0		
U07-135636R	1.1	1.0	1.0	1.5			1.0	1.0	1.0		
U07-236940R	1.3	1.0	1.0	1.5			2.0	1.0	1.0		
U11-607166R	1.0	1.0	1.0	1.0			1.0	1.0	1.0		
U11-607174R	1.2	1.0	1.0	1.0			1.0	2.0	1.0		
U11-609165R	1.4	2.0	1.0	1.5			1.0	1.0	2.0		
U11-924119R	1.1	1.0	1.0	1.5			1.0	1.0	1.0		
U11-926111R	1.2	1.0	1.0	1.0			2.0	1.0	1.0		
U11-931121R	1.0	1.0	1.0	1.0			1.0	1.0	1.0		
U12-902102R	1.3	1.0	1.0	1.5			1.0	2.0	1.0		
U12-902104R	1.0	1.0	1.0	1.0			1.0	1.0	1.0		
U12-902108R	1.2	1.0	1.0	1.0			1.0	2.0	1.0		
U12-907117R	1.2	2.0	1.0	1.0			1.0	1.0	1.0		
U12-909110R	1.2	1.0	1.0	1.0			2.0	1.0	1.0		
U12-920124R	1.2	1.0	1.0	1.0			2.0	1.0	1.0		
U12-923116R	1.1	1.0	1.0	1.5			1.0	1.0	1.0		
U12-923122R	1.4	1.0	1.0	1.5			2.0	2.0	1.0		
U12-924117R	1.1	1.0	1.0	1.5			1.0	1.0	1.0		
U12-926110R	1.2	1.0	1.0	1.0			2.0	1.0	1.0		
U12-926115R	1.0	1.0	1.0	1.0			1.0	1.0	1.0		
U12-927105R	1.0	1.0	1.0	1.0			1.0	1.0	1.0		

UNIFORM TEST II Roundup-Ready, 2013

SEED SIZE (g/100)

Strain	Mean 9 Tests	Urbana Il	Lafayette IN	Wanatah IN	Ingham County MI	Lenawee County MI	Lamberton MN	Waseca MN	Westbrook MN	Cotesfield NE	Mead NE
U06-814223R (II)	15.4	14.6	13.9	14.2	18.5	14.0	15.3	14.3	19.7		14.1
AG2031 (E)	18.2	17.6	16.7	17.7	21.1	18.6	17.8	17.3	20.2		17.1
AG2606	16.0	15.6	14.3	15.6	18.4	15.8	15.2	14.3	18.5		16.1
NEX2905A0R (L)	13.9	13.2	13.1	13.8	16.7	14.4	13.2	13.8	13.2		14.1
U07-135601R	15.8	15.7	14.7	15.1	18.7	15.0	15.4	15.7	15.5		16.7
U07-135636R	16.9	16.7	14.5	16.3	22.6	17.8	15.6	16.0	17.4		15.5
U07-236940R	14.5	13.3	12.9	14.5	17.9	14.9	14.1	13.8	14.7		14.5
U11-607166R	15.8	15.8	14.7	14.5	20.1	16.7	14.9	14.3	14.7		16.6
U11-607174R	15.4	15.8	15.0	14.5	20.0	15.8	13.2	13.9	14.4		15.9
U11-609165R	15.3	16.5	14.2	14.2	20.0	15.4	12.8	13.2	15.5		15.7
U11-924119R	14.6	14.2	12.9	13.5	18.8	15.7	14.1	13.8	15.0		13.0
U11-926111R	14.7	14.2	13.2	14.2	18.0	15.4	14.2	13.4	16.1		14.1
U11-931121R	14.9	14.5	12.9	13.9	18.1	15.2	15.2	14.9	15.3		14.4
U12-902102R	16.2	15.0	14.0	14.6	21.5	16.9	15.4	15.7	17.2		15.6
U12-902104R	14.9	13.5	13.7	14.0	18.9	16.0	13.5	14.8	15.1		14.4
U12-902108R	14.7	14.2	12.5	14.5	17.5	16.2	13.7	13.9	16.4		13.7
U12-907117R	17.0	17.6	15.6	15.4	20.9	17.8	15.8	16.2	18.5		15.6
U12-909110R	14.7	13.7	13.0	13.6	18.6	15.0	13.2	14.2	16.1		14.8
U12-920124R	15.8	15.0	14.0	14.6	20.5	16.2	15.2	15.2	16.0		15.4
U12-923116R	14.8	14.3	13.2	12.3	19.0	15.1	14.1	13.6	16.1		15.5
U12-923122R	14.1	13.6	12.7	12.6	17.7	14.3	13.1	12.6	16.7		13.6
U12-924117R	15.4	15.5	14.0	13.6	19.5	15.4	15.0	14.3	16.2		14.9
U12-926110R	15.7	14.8	14.3	14.9	19.4	16.2	14.4	15.0	17.3		15.0
U12-926115R	13.6	12.9	11.9	13.0	17.4	13.8	13.0	12.6	14.6		12.9
U12-927105R	15.0	15.1	13.3	14.3	18.4	15.9	14.0	13.9	15.6		14.5

UNIFORM TEST II Roundup-Ready, 2013

PROTEIN (%)

Strain	Mean 5 Tests	Urbana IL	Lamberton MN	Waseca MN	Westbrook MN	Cotesfield NE	Mead NE
U06-814223R (II)	34.5	33.7	33.5	33.1	35.9	35.7	35.0
AG2031 (E)	35.2	34.9	34.1	34.3	35.1	36.5	36.1
AG2606	37.1	36.7	35.8	36.4	38.2	37.6	38.2
NEX2905A0R (L)	33.7	33.4	32.4	33.1	34.2	34.5	34.4
U07-135601R	34.5	34.3	33.9	32.9	34.9	35.7	35.5
U07-135636R	34.1	33.8	33.5	32.3	34.7	35.5	35.0
U07-236940R	34.0	32.9	32.8	33.7	34.3	35.5	34.6
U11-607166R	34.5	34.2	33.8	34.1	33.7	35.3	35.6
U11-607174R	34.4	34.7	33.0	34.3	33.8	35.2	35.6
U11-609165R	34.5	35.0	33.5	33.8	33.7	35.5	35.4
U11-924119R	33.6	33.8	32.6	32.9	32.7	34.6	34.8
U11-926111R	33.8	33.9	33.2	32.6	34.3	33.9	34.7
U11-931121R	33.9	34.0	33.3	32.7	34.3	34.9	34.2
U12-902102R	34.9	34.7	34.1	34.4	34.7	35.6	35.9
U12-902104R	34.6	34.5	34.1	34.2	33.6	35.5	35.6
U12-902108R	34.8	35.2	34.2	33.9	35.0	35.4	35.3
U12-907117R	33.7	33.6	32.5	32.6	33.5	35.3	34.6
U12-909110R	34.6	33.6	34.0	34.4	35.6	34.8	35.2
U12-920124R	34.4	34.5	33.1	33.8	35.1	34.9	34.8
U12-923116R	34.5	34.2	33.0	33.8	35.6	35.2	35.5
U12-923122R	34.6	34.1	33.1	33.8	36.4	35.1	35.0
U12-924117R	34.6	34.5	33.7	33.7	35.3	35.4	35.2
U12-926110R	34.9	34.8	33.5	34.3	35.6	35.6	35.9
U12-926115R	34.6	34.7	33.1	33.9	35.0	35.4	35.4
U12-927105R	34.7	35.1	33.6	33.5	34.8	35.6	35.6

* Protein and Oil values converted to 13% moisture basis.

UNIFORM TEST II Roundup-Ready, 2013

OIL (%)

Strain	Mean 5 Tests	Urbana IL	Lamberton MN	Waseca MN	Westbrook MN	Cotesfield NE	Mead NE
U06-814223R (II)	19.7	21.0	19.4	19.9	18.2	20.0	19.8
AG2031 (E)	19.4	20.2	19.9	19.2	18.7	19.3	19.3
AG2606	18.0	18.9	18.5	17.1	16.9	18.3	18.1
NEX2905A0R (L)	19.6	20.4	19.2	19.6	18.3	20.2	19.9
U07-135601R	19.6	20.5	19.2	19.7	19.1	19.5	19.6
U07-135636R	20.3	21.4	19.6	20.3	19.5	20.4	20.5
U07-236940R	19.4	20.6	19.4	19.4	18.5	19.3	19.4
U11-607166R	19.8	21.1	19.7	19.3	18.5	20.1	20.0
U11-607174R	19.7	20.9	18.6	19.3	19.2	20.4	20.0
U11-609165R	19.7	20.7	19.3	18.9	18.8	20.2	20.2
U11-924119R	19.6	20.8	19.3	19.5	19.4	19.4	19.1
U11-926111R	19.8	20.8	19.8	19.6	18.5	20.3	19.8
U11-931121R	20.4	21.5	20.2	20.5	19.4	20.2	20.3
U12-902102R	19.5	20.6	19.1	19.0	18.5	20.1	19.7
U12-902104R	19.8	21.0	19.6	19.3	19.2	20.2	19.7
U12-902108R	19.8	20.8	19.6	19.5	19.0	20.0	19.9
U12-907117R	20.2	21.4	19.8	20.1	19.4	20.1	20.3
U12-909110R	19.2	20.4	18.5	19.0	18.0	19.8	19.4
U12-920124R	19.7	20.7	19.8	19.1	18.8	20.1	19.8
U12-923116R	19.4	20.7	19.1	18.9	18.0	20.0	19.7
U12-923122R	19.0	20.4	19.1	18.6	17.9	19.3	19.1
U12-924117R	19.1	20.1	18.8	19.0	18.3	19.4	19.3
U12-926110R	19.2	20.1	19.3	19.0	18.1	19.6	19.2
U12-926115R	19.8	20.9	19.4	19.6	19.2	20.0	19.8
U12-927105R	19.0	19.9	18.3	19.2	18.3	19.4	19.1

Uniform Test III Roundup-Ready, 2013

Ent.	Strain	Parentage	Seed Source	Previous Testing	Gen. Comp.	Unique Traits
1	U03-827101 (SCN)	na	Monsanto	5		RR, SCN
2.	NEX2905A0R (E)	na	Graef	6		Det.
3.	AG3504	na	Monsanto	5		
4.	AG3803	na	Monsanto	4		RR, SCN
5.	LD09-17123R2	LD00-3309 x Mosanto RR2	Diers	1	F5	RR2
6.	LD09-17213R2	LD00-3309 x Mosanto RR2	Diers	1	F5	RR2
7.	LD09-17220R2	LD00-3309 x Mosanto RR2	Diers	1	F5	RR2
8.	LD11-13814R	Syngenta 03JR313108 x (LD00-3309 x RR2)	Diers	new	F5	RR2, SCN
9.	LD11-14102R	(Syngenta 03JR313108 x (LD00-3309 x RR2)) x LD06-7620	Diers	new	F5	RR2, SCN
10.	LD11-14160R	(Syngenta 03JR313108 x (LD00-3309 x RR2)) x LD06-7620	Diers	new	F5	RR2, SCN
11.	LD11-14283R	LD06-7648 x (LD00-3309 x MonsantoRR2)	Diers	new	F5	RR2, SCN
12.	LD11-14287R	LD06-7648 x (LD00-3309 x MonsantoRR2)	Diers	new	F5	RR2, SCN
13.	LD11-14335R	LD00-3309(2) x MonsantoRR2	Diers	new	F5	RR2, SCN
14.	LD11-14362R	LD00-3309(2) x MonsantoRR2	Diers	new	F5	RR2, SCN
15.	U12-903124R	U07-135601R x U07-135377R	Graef	new	F5	RR1
16.	U12-906103R	U07-135601R x U07-135377R	Graef	new	F5	RR1
17.	U12-911104R	U07-135601R x U07-135377R	Graef	new	F5	RR1
18.	U12-913114R	U07-135601R x U07-237991R	Graef	new	F5	RR1, Rps1k
19.	U12-915108R	U07-135601R x U07-237991R	Graef	new	F5	RR1, Rps1k
20.	U12-916111R	U07-135601R x U07-237991R	Graef	new	F5	RR1, Rps1k
21.	U12-916112R	U07-135601R x U07-237991R	Graef	new	F5	RR1, Rps1k
22.	U12-917104R	U07-135601R x U07-237991R	Graef	new	F5	RR1, Rps1k
23.	U12-926101R	U07-135601R x U08-932024R	Graef	new	F5	RR1

UNIFORM TEST III Roundup-Ready, 2013

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	Shattering Score Manhattan KS	Green Stem Score Wanatah IN	SDS DX Valmeyer IL
U03-827101 (SCN)	WTBDYBlI	3.0	1.0	8
NEX2905A0R (E)	PGBDYIbD	3.0	1.0	28
AG3504	PGBDYIbI	3.0	1.0	2
AG3803	PGBDYIbI	2.0	1.0	0
LD09-17123R2	WTBDYBlI	2.0	1.0	14
LD09-17213R2	WTTDYBlI	2.0	1.0	3
LD09-17220R2	PTBDYBlI	2.0	1.0	6
LD11-13814R	WLtBIYLblI	2.0	1.0	3
LD11-14102R	WLtT+BDYBlI	2.0	1.0	11
LD11-14160R	WTTDYBlI	2.0	1.0	20
LD11-14283R	WTTDYLblI	1.0	1.0	18
LD11-14287R	PTBDYBlI	2.0	1.0	7
LD11-14335R	PTTDYBlI	2.0	1.0	6
LD11-14362R	WTBDYBlI	2.0	1.0	4
U12-903124R	PT+GB+TSYBlD	2.0	1.0	33
U12-906103R	PGBDYIbD	4.0	1.0	18
U12-911104R	WTTDYBlI	3.0	1.0	33
U12-913114R	WTBDYBlI	3.0	1.0	22
U12-915108R	PGBDYIbI	4.0	1.0	22
U12-916111R	PGTDYIbI	3.0	1.0	36
U12-916112R	PGTDYIbI	3.0	1.0	44
U12-917104R	WTTDYBlI	5.0	1.0	42
U12-926101R	PGTDYIbI	1.0	1.0	26
2900CR(sus)				22
MAC02-256(sus)				32
Mean				18
LSD				24
P(0.05)				0.0044

UNIFORM TEST III Roundup-Ready, 2013

REGIONAL SUMMARY

Strain	Yield 7 bu/a	Rank 7 No.	Maturity 8 Date	Lodging 7 Score	Plant Height 6 In.	Seed Quality 7 Score	Seed Size 9 g/100	Composition Protein 4 %	Composition Oil 4 %
No. of Tests									
U03-827101 (SCN)	62.0	12	9/25	1.3	31	1.9	16.5	36.4	19.0
NEX2905A0R (E)	57.8	18	-4.7	1.1	26	2.0	13.2	34.4	20.1
AG3504	59.6	14	0.6	1.5	32	2.0	15.0	36.4	18.8
AG3803	63.9	9	5.2	1.3	32	1.9	16.0	35.8	19.3
LD09-17123R2	68.3	5	5.5	1.4	35	2.2	15.1	36.0	19.3
LD09-17213R2	69.8	2	4.2	1.6	34	2.4	15.4	35.7	19.5
LD09-17220R2	69.3	3	2.7	1.3	32	2.2	16.2	35.6	19.4
LD11-13814R	65.6	7	6.2	1.3	29	2.4	16.5	35.6	19.1
LD11-14102R	71.8	1	5.4	1.3	31	2.5	16.1	35.4	19.7
LD11-14160R	66.8	6	5.9	1.3	32	2.5	17.0	36.0	19.5
LD11-14283R	63.9	9	5.2	1.3	34	1.9	14.1	36.3	18.6
LD11-14287R	62.1	11	2.9	1.4	31	2.2	12.9	36.2	18.0
LD11-14335R	65.2	8	0.3	1.3	31	1.9	14.3	35.9	18.5
LD11-14362R	68.4	4	5.3	1.4	32	2.3	14.6	35.5	18.6
U12-903124R	55.3	23	-5.6	1.1	26	2.0	15.9	35.8	20.1
U12-906103R	58.9	16	-3.2	1.1	28	2.3	15.0	34.9	20.0
U12-911104R	57.6	20	1.7	1.4	33	1.6	15.2	35.8	19.4
U12-913114R	57.8	18	2.4	1.3	33	2.0	14.6	35.7	18.9
U12-915108R	56.9	22	-6.0	1.1	29	2.0	14.1	35.3	19.3
U12-916111R	59.4	15	-3.1	1.4	32	2.1	15.7	36.5	19.1
U12-916112R	58.8	17	-0.6	1.3	28	2.0	14.8	35.5	19.7
U12-917104R	57.4	21	-3.7	1.5	31	2.3	15.9	36.1	19.3
U12-926101R	60.4	13	-6.3	1.3	28	2.1	14.3	35.0	20.2

125.2 Days After Planting

UNIFORM TEST III Roundup-Ready, 2013

2012-2013 2-YEAR MEAN

No. of Tests Strain	Yield 16 bu/a	Rank 16 No.	Maturity 16 Date	Lodging 15 Score	Plant Height 14 In.	Seed Quality 14 Score	Seed Size 18 g/100	Composition Protein 12 %	 Oil 12 %
U03-827101 (SCN)	59.3	5	9/24	1.4	34	2.0	16.1	36.0	19.0
NEX2905A0R (E)	55.5	7	-6.0	1.1	28	2.0	13.5	34.1	20.1
AG3504	58.1	6	-1.2	1.6	35	1.8	15.0	36.0	19.0
AG3803	64.0	4	4.0	1.4	36	1.9	15.9	35.5	19.3
LD09-17123R2	64.7	2	4.1	1.6	39	2.0	14.8	35.7	19.3
LD09-17213R2	66.6	1	3.0	1.6	38	2.1	15.1	35.4	19.4
LD09-17220R2	64.6	3	1.2	1.4	35	2.1	16.0	35.6	19.3

129.8 Days After Planting

UNIFORM TEST III Roundup-Ready, 2013

YIELD (bu/a)

Strain	Mean 7 Tests	Urbana IL	Lafayette IN	Wanatah IN	Butlerville IN	Columbia* MO	Portageville* (Clay) MO	Portageville (Loam) MO	Goehner NE	Wymore NE
U03-827101 (SCN)	62.0	67.6	67.3	65.6	47.9	48.3	26.9	54.0	81.8	49.8
NEX2905A0R (E)	57.8	51.2	65.1	63.8	32.6	38.5	20.1	45.7	82.7	63.7
AG3504	59.6	69.8	66.8	60.3	47.7	48.5	22.3	49.8	62.4	60.3
AG3803	63.9	74.3	68.5	63.1	47.0	45.3	26.0	58.2	70.4	65.7
LD09-17123R2	68.3	76.3	79.3	60.4	57.1	48.6	23.0	64.5	70.0	70.4
LD09-17213R2	69.8	71.8	81.5	68.2	49.7	47.9	39.5	63.3	80.5	73.9
LD09-17220R2	69.3	74.7	71.3	67.2	58.4	50.6	32.5	65.7	80.0	67.8
LD11-13814R	65.6	76.9	68.8	60.3	49.5	63.0	35.1	64.3	77.9	61.8
LD11-14102R	71.8	80.3	82.0	72.8	57.3	48.9	32.6	55.7	82.8	71.8
LD11-14160R	66.8	78.0	74.8	67.3	51.9	52.5	33.9	50.7	72.8	71.9
LD11-14283R	63.9	66.5	70.2	58.5	53.8	40.1	32.9	61.8	74.3	62.5
LD11-14287R	62.1	68.1	65.9	59.0	48.9	41.7	31.0	57.9	73.8	60.9
LD11-14335R	65.2	78.0	73.2	63.4	47.2	40.7	28.4	52.2	73.5	68.8
LD11-14362R	68.4	67.7	76.8	70.2	59.8	50.2	36.7	54.9	82.9	66.2
U12-903124R	55.3	58.1	64.2	56.8	34.4	34.1	15.1	32.0	78.3	63.1
U12-906103R	58.9	58.8	68.7	55.3	33.9	48.7	22.1	42.4	92.3	60.8
U12-911104R	57.6	59.1	66.2	58.1	41.4	44.6	29.9	46.8	72.4	59.2
U12-913114R	57.8	62.2	67.4	59.3	35.3	37.2	29.4	49.2	68.5	62.4
U12-915108R	56.9	53.5	65.3	55.8	32.5	43.0	29.1	42.4	83.5	65.0
U12-916111R	59.4	61.3	69.0	55.7	36.3	36.7	25.0	48.3	81.6	63.3
U12-916112R	58.8	59.9	67.2	56.1	42.2	27.6	16.5	54.4	63.6	67.9
U12-917104R	57.4	59.6	70.1	63.0	30.3	36.4	30.0	40.7	73.9	64.5
U12-926101R	60.4	62.5	74.7	59.0	38.2	36.3	17.6	32.3	83.2	72.6
Location Mean		66.8	70.6	61.7	44.9	43.9	27.6	51.6	76.6	65.0
C.V. (%)		5.2	6.2	7.9	14.0	22.5	15.2	12.1	7.8	7.8
L.S.D. (5%)		7.1	7.1	8.0	10.3	16.2	8.3	12.3	18.6	10.5
Row Sp. (in.)		30	30	30	30	30	30	30	30	30
Rows/Plot		4	4	4	4	4	4	4	4	4
Reps		2	3	3	3	3	3	3	2	2

*Data not included in mean.

UNIFORM TEST III Roundup-Ready, 2013

YIELD RANK

Strain	Yield Rank	Urbana IL	Lafayette IN	Wanatah IN	Butlerville IN	Columbia MO	Portageville (Clay) MO	Portageville (Loam) MO	Goehner NE	Wymore NE
U03-827101 (SCN)	12	12	16	6	10	9	14	11	7	23
NEX2905A0R (E)	18	23	22	7	21	17	20	18	6	13
AG3504	14	9	18	12	11	8	18	14	23	21
AG3803	9	7	14	9	13	11	15	6	19	10
LD09-17123R2	5	5	3	11	4	7	17	2	20	5
LD09-17213R2	2	8	2	3	7	10	1	4	9	1
LD09-17220R2	3	6	8	5	2	3	7	1	10	8
LD11-13814R	7	4	12	12	8	1	3	3	12	18
LD11-14102R	1	1	1	1	3	5	6	8	5	4
LD11-14160R	6	2	5	4	6	2	4	13	17	3
LD11-14283R	9	13	9	17	5	16	5	5	13	16
LD11-14287R	11	10	20	15	9	14	8	7	15	19
LD11-14335R	8	2	7	8	12	15	13	12	16	6
LD11-14362R	4	11	4	2	1	4	2	9	4	9
U12-903124R	23	21	23	19	19	22	23	23	11	15
U12-906103R	16	20	13	23	20	6	19	19	1	20
U12-911104R	20	19	19	18	15	12	10	17	18	22
U12-913114R	18	15	15	14	18	18	11	15	21	17
U12-915108R	22	22	21	21	22	13	12	19	2	11
U12-916111R	15	16	11	22	17	19	16	16	8	14
U12-916112R	17	17	17	20	14	23	22	10	22	7
U12-917104R	21	18	10	10	23	20	9	21	14	12
U12-926101R	13	14	6	15	16	21	21	22	3	2

UNIFORM TEST III Roundup-Ready, 2013

MATURITY (date)

Strain	Mean 8 Tests	Urbana IL	Lafayette IN	Wanatah IN	Butlerville IN	Columbia MO	Portageville (Clay) MO	Portageville (Loam) MO	Goehner NE	Wymore NE
U03-827101 (SCN)	9/25	9/23	9/28	9/29	9/29	9/26	9/28	9/11	9/30	
NEX2905A0R (E)	-4.7	0	-6	-4	-9	-6	1	-3	-11	
AG3504	0.6	5	-2	0	-1	3	4	-1	-3	
AG3803	5.2	9	6	5	3	5	7	6	1	
LD09-17123R2	5.5	11	7	5	3	2	5	6	5	
LD09-17213R2	4.2	3	7	5	2	1	6	6	3	
LD09-17220R2	2.7	3	4	4	-1	3	5	7	-4	
LD11-13814R	6.2	7	6	5	3	5	12	7	5	
LD11-14102R	5.4	10	5	5	3	0	11	5	4	
LD11-14160R	5.9	12	7	6	3	3	11	0	6	
LD11-14283R	5.2	4	6	6	3	1	9	7	6	
LD11-14287R	2.9	2	4	4	1	0	4	5	4	
LD11-14335R	0.3	8	1	2	-3	-2	1	-1	-4	
LD11-14362R	5.3	7	5	7	2	17	1	5	-2	
U12-903124R	-5.6	2	-7	-5	-13	-6	2	-6	-12	
U12-906103R	-3.2	2	-6	-4	-10	-5	7	-3	-7	
U12-911104R	1.7	7	1	0	-3	2	6	2	-2	
U12-913114R	2.4	2	4	0	-2	5	5	5	1	
U12-915108R	-6.0	-4	-5	-5	-12	-6	1	-7	-10	
U12-916111R	-3.1	0	-2	-5	-10	-2	4	-3	-7	
U12-916112R	-0.6	4	-2	-4	-5	3	4	1	-6	
U12-917104R	-3.7	1	-2	-4	-10	-5	1	-4	-7	
U12-926101R	-6.3	2	-7	-5	-12	-7	0	-9	-12	
Date Planted	5/23	5/17	5/22	5/14	5/29	6/7	6/14	5/13	5/14	5/18
Days to Mature	125	129	129	138	123	111	106	121	139	

UNIFORM TEST III Roundup-Ready, 2013

LODGING (score)

Strain	Mean 7 Tests	Urbana IL	Lafayette IN	Wanatah IN	Butlerville IN	Columbia MO	Portageville (Clay) MO	Portageville (Loam) MO	Goehner NE	Wymore NE
U03-827101 (SCN)	1.3	1.3	1.0	1.0	1.0	1.5	1.0	2.0		
NEX2905A0R (E)	1.1	1.5	1.0	1.0	1.0	1.5	1.0	1.0		
AG3504	1.5	2.0	1.3	1.2	1.0	1.7	1.0	2.0		
AG3803	1.3	1.5	1.2	1.0	1.0	1.5	1.0	2.0		
LD09-17123R2	1.4	1.5	1.5	1.0	1.0	1.8	1.0	2.0		
LD09-17213R2	1.6	1.5	1.3	1.2	1.0	2.0	1.0	3.0		
LD09-17220R2	1.3	1.5	1.0	1.0	1.0	1.7	1.0	2.0		
LD11-13814R	1.3	1.3	1.0	1.0	1.0	2.0	1.0	2.0		
LD11-14102R	1.3	1.3	1.0	1.0	1.0	1.5	1.0	2.0		
LD11-14160R	1.3	1.3	1.0	1.0	1.0	1.7	1.0	2.0		
LD11-14283R	1.3	1.0	1.5	1.2	1.0	1.5	1.0	2.0		
LD11-14287R	1.4	1.3	1.5	1.2	1.0	1.8	1.0	2.0		
LD11-14335R	1.3	1.5	1.0	1.0	1.0	1.7	1.0	2.0		
LD11-14362R	1.4	2.0	1.0	1.0	1.0	1.7	1.0	2.0		
U12-903124R	1.1	1.3	1.0	1.0	1.0	1.5	1.0	1.0		
U12-906103R	1.1	1.5	1.0	1.0	1.0	1.5	1.0	1.0		
U12-911104R	1.4	2.0	1.2	1.0	1.0	1.7	1.0	2.0		
U12-913114R	1.3	1.0	1.2	1.0	1.0	1.7	1.0	2.0		
U12-915108R	1.1	1.3	1.0	1.0	1.0	1.5	1.0	1.0		
U12-916111R	1.4	2.0	1.5	1.0	1.0	1.5	1.0	2.0		
U12-916112R	1.3	1.5	1.0	1.0	1.0	1.5	1.0	2.0		
U12-917104R	1.5	2.5	1.3	1.0	1.0	1.5	1.0	2.0		
U12-926101R	1.3	1.5	1.0	1.0	1.0	1.5	1.0	2.0		

UNIFORM TEST III Roundup-Ready, 2013

PLANT HEIGHT (inches)

Strain	Mean 6 Tests	Urbana IL	Lafayette IN	Wanatah IN	Butlerville IN	Columbia MO	Portageville (Clay) MO	Portageville (Loam) MO	Goehner NE	Wymore NE
U03-827101 (SCN)	31	40	39		26	31	20	30		
NEX2905A0R (E)	26	36	34		22	26	17	19		
AG3504	32	39	42		30	31	18	32		
AG3803	32	39	39		31	30	21	32		
LD09-17123R2	35	40	46		36	37	18	36		
LD09-17213R2	34	37	42		34	33	21	36		
LD09-17220R2	32	36	39		33	32	21	29		
LD11-13814R	29	36	37		26	28	18	28		
LD11-14102R	31	36	40		30	30	20	32		
LD11-14160R	32	39	38		30	31	21	30		
LD11-14283R	34	40	42		33	33	22	32		
LD11-14287R	31	36	41		32	33	17	30		
LD11-14335R	31	38	39		31	31	18	28		
LD11-14362R	32	41	38		31	32	23	29		
U12-903124R	26	38	34		25	26	16	18		
U12-906103R	28	37	36		25	31	16	23		
U12-911104R	33	40	45		30	33	21	28		
U12-913114R	33	40	46		28	34	21	30		
U12-915108R	29	36	37		29	31	18	20		
U12-916111R	32	41	42		31	30	19	29		
U12-916112R	28	39	38		28	21	16	28		
U12-917104R	31	40	42		27	32	19	27		
U12-926101R	28	38	38		25	28	17	24		

UNIFORM TEST III Roundup-Ready, 2013

SEED QUALITY (score)

Strain	Mean 7 Tests	Urbana IL	Lafayette IN	Wanatah IN	Butlerville IN	Columbia MO	Portageville (Clay) MO	Portageville (Loam) MO	Goehner NE	Wymore NE
U03-827101 (SCN)	1.9	1.0	1.5	1.5	1.5	1.5	3.0	3.0		
NEX2905A0R (E)	2.0	1.0	1.0	1.5	2.0	1.5	4.0	3.0		
AG3504	2.0	1.0	1.5	1.5	2.0	1.7	3.0	3.0		
AG3803	1.9	2.0	1.5	2.0	1.5	1.5	3.0	2.0		
LD09-17123R2	2.2	2.0	1.5	2.0	1.5	1.5	3.0	4.0		
LD09-17213R2	2.4	2.0	1.0	1.5	1.5	1.5	5.0	4.0		
LD09-17220R2	2.2	2.0	1.0	1.5	1.5	1.5	4.0	4.0		
LD11-13814R	2.4	2.0	1.0	2.0	2.0	1.5	5.0	3.0		
LD11-14102R	2.5	2.0	1.0	2.0	1.5	1.7	5.0	4.0		
LD11-14160R	2.5	1.0	1.5	2.5	2.5	2.0	5.0	3.0		
LD11-14283R	1.9	1.0	1.5	1.5	1.0	1.5	4.0	3.0		
LD11-14287R	2.2	2.0	1.0	1.5	1.5	1.5	4.0	4.0		
LD11-14335R	1.9	2.0	1.0	1.5	1.5	1.5	3.0	3.0		
LD11-14362R	2.3	2.0	1.0	2.5	2.0	1.5	4.0	3.0		
U12-903124R	2.0	1.0	1.0	1.0	2.0	1.8	4.0	3.0		
U12-906103R	2.3	1.0	1.0	1.0	2.5	1.5	5.0	4.0		
U12-911104R	1.6	1.0	1.0	1.5	1.0	1.5	3.0	2.0		
U12-913114R	2.0	1.0	1.5	1.5	1.5	1.8	3.0	4.0		
U12-915108R	2.0	2.0	1.0	1.5	2.0	1.5	3.0	3.0		
U12-916111R	2.1	2.0	1.0	1.0	1.5	1.5	4.0	4.0		
U12-916112R	2.0	1.0	1.0	1.5	2.0	1.8	3.0	4.0		
U12-917104R	2.3	2.0	1.0	1.5	2.5	2.0	3.0	4.0		
U12-926101R	2.1	1.0	1.0	1.5	2.0	1.5	5.0	3.0		

UNIFORM TEST III Roundup-Ready, 2013

SEED SIZE (g/100)

Strain	Mean 9 Tests	Urbana IL	Lafayette IN	Wanatah IN	Butlerville IN	Columbia MO	Portageville (Clay) MO	Portageville (Loam) MO	Goehner NE	Wymore NE
U03-827101 (SCN)	16.5	18.0	15.3	15.4	14.2	13.6	20.9	16.6	15.6	18.5
NEX2905A0R (E)	13.2	13.2	12.2	13.4	9.8	10.3	17.2	14.2	12.6	15.6
AG3504	15.0	17.0	14.6	14.8	12.5	12.9	17.6	13.9	14.1	18.1
AG3803	16.0	18.0	15.8	15.2	14.7	14.0	17.2	15.5	15.2	17.9
LD09-17123R2	15.1	16.3	15.2	13.9	13.5	12.9	16.7	16.3	14.0	16.8
LD09-17213R2	15.4	16.9	14.7	14.6	13.4	11.8	19.3	16.0	14.9	16.9
LD09-17220R2	16.2	18.1	15.6	15.7	14.1	13.6	20.0	15.4	15.4	18.2
LD11-13814R	16.5	18.1	16.3	14.9	15.4	14.9	19.7	16.0	16.1	17.3
LD11-14102R	16.1	18.0	16.2	13.9	14.4	13.3	20.0	16.6	15.0	17.6
LD11-14160R	17.0	19.3	16.6	16.4	15.6	14.9	20.1	16.4	15.3	18.6
LD11-14283R	14.1	14.4	13.5	12.7	12.3	11.3	17.5	15.6	15.1	14.9
LD11-14287R	12.9	13.7	12.2	12.2	11.9	10.8	15.7	13.8	12.4	13.3
LD11-14335R	14.3	15.1	14.3	13.2	12.7	12.3	16.8	15.4	12.9	16.3
LD11-14362R	14.6	14.9	15.1	13.5	12.9	12.5	17.3	14.9	13.6	16.6
U12-903124R	15.9	16.3	15.3	14.3	12.9	12.6	20.7	16.4	14.9	19.9
U12-906103R	15.0	15.2	14.7	13.8	11.6	12.2	19.3	15.3	15.4	17.9
U12-911104R	15.2	14.8	14.5	13.9	12.7	13.9	19.8	15.4	13.7	17.9
U12-913114R	14.6	15.0	14.3	13.8	11.3	11.7	18.1	16.1	14.3	16.8
U12-915108R	14.1	14.2	13.5	13.1	11.1	11.0	19.3	14.2	13.7	17.2
U12-916111R	15.7	15.7	15.3	14.8	12.4	12.1	18.7	17.5	16.6	18.2
U12-916112R	14.8	15.0	13.9	14.6	11.5	11.5	18.1	16.3	14.7	17.6
U12-917104R	15.9	16.6	16.1	15.7	12.9	11.6	18.8	17.4	14.8	19.1
U12-926101R	14.3	14.3	13.6	12.8	11.6	11.1	19.1	14.7	13.5	17.7

UNIFORM TEST III Roundup-Ready, 2013

PROTEIN (%)

Strain	Mean 4 Tests	Urbana IL	Columbia MO	Goehner NE	Wymore NE
U03-827101 (SCN)	36.4	36.0	36.5	36.2	36.9
NEX2905A0R (E)	34.4	32.9	33.8	34.8	36.0
AG3504	36.4	35.3	36.3	36.0	38.1
AG3803	35.8	35.8	35.9	34.1	37.5
LD09-17123R2	36.0	35.6	36.7	34.9	37.0
LD09-17213R2	35.7	34.8	36.3	34.7	36.9
LD09-17220R2	35.6	34.7	35.8	35.3	36.8
LD11-13814R	35.6	35.2	35.8	34.6	36.7
LD11-14102R	35.4	34.6	35.6	35.0	36.4
LD11-14160R	36.0	34.8	36.7	35.3	37.1
LD11-14283R	36.3	35.8	36.9	35.9	36.8
LD11-14287R	36.2	35.5	37.1	34.9	37.2
LD11-14335R	35.9	34.8	36.6	35.2	37.1
LD11-14362R	35.5	34.8	36.6	34.2	36.3
U12-903124R	35.8	34.8	35.5	36.0	36.9
U12-906103R	34.9	33.6	35.4	34.0	36.5
U12-911104R	35.8	34.7	35.4	35.3	38.0
U12-913114R	35.7	34.5	36.0	34.6	37.8
U12-915108R	35.3	33.6	35.5	35.0	37.3
U12-916111R	36.5	35.4	36.9	36.1	37.8
U12-916112R	35.5	34.6	35.4	35.3	36.8
U12-917104R	36.1	35.2	36.4	35.6	37.1
U12-926101R	35.0	33.5	34.3	34.8	37.4

* Protein and Oil values converted to 13% moisture basis.

UNIFORM TEST III Roundup-Ready, 2013

OIL (%)

Strain	Mean 4 Tests	Urbana IL	Columbia MO	Goehner NE	Wymore NE
U03-827101 (SCN)	19.0	19.4	19.0	18.6	18.9
NEX2905A0R (E)	20.1	21.0	20.2	19.4	19.6
AG3504	18.8	20.0	18.6	18.4	18.2
AG3803	19.3	19.8	19.2	19.6	18.6
LD09-17123R2	19.3	19.7	19.3	19.3	19.0
LD09-17213R2	19.5	20.6	18.7	19.7	19.1
LD09-17220R2	19.4	20.1	19.4	19.1	18.9
LD11-13814R	19.1	19.4	19.4	19.0	18.8
LD11-14102R	19.7	20.4	19.6	19.3	19.3
LD11-14160R	19.5	20.2	19.1	19.5	19.0
LD11-14283R	18.6	19.0	18.1	19.1	18.3
LD11-14287R	18.0	18.7	17.4	18.3	17.5
LD11-14335R	18.5	19.2	18.3	18.3	18.1
LD11-14362R	18.6	19.2	18.2	18.9	18.1
U12-903124R	20.1	20.9	20.0	19.7	19.6
U12-906103R	20.0	21.0	19.4	20.0	19.6
U12-911104R	19.4	20.2	19.6	19.1	18.6
U12-913114R	18.9	20.0	18.6	19.2	17.9
U12-915108R	19.3	20.7	18.9	18.9	18.8
U12-916111R	19.1	20.0	18.6	19.0	18.8
U12-916112R	19.7	21.1	19.1	19.6	19.1
U12-917104R	19.3	20.6	18.5	18.9	19.1
U12-926101R	20.2	21.2	20.2	19.9	19.4

Preliminary Test IV Roundup-Ready, 2013

Ent.	Strain	Parentage	Seed Source	Previous Testing	Gen. Comp.	Unique Traits
1	AG4005	na	Monsanto	1		
2.	AG3803	na	Monsanto	2		RR, SCN
3.	AG4232	na	Monsanto	new		RR, SCN
4.	LD11-13342Ra	(LD05-16657 x (LD00-3309 x RR2)) x LDX08-214a	Diers	new	F5	RR2, SCN, Rag1
5.	LD11-13834R	Syngenta 03JR313108 x (LD00-3309 x RR2)	Diers	new	F5	RR2, SCN
6.	LD11-13948R	LD02-5124W x (LD00-3309 x MonsantoRR2)	Diers	new	F5	RR2, SCN
7.	S10-6090RR	S05-11482 x RR2-12996	Shannon	new	F5	RR2, SCN
8.	S11-9938	S04-20912RR x S08-093	Shannon	new	F5	RR2
9.	S11-10082	S04-20912RR x S08-093	Shannon	new	F5	RR2, SCN
10.	S11-10163	S04-20912RR x S08-095	Shannon	new	F5	RR2, SCN

PRELIMINARY TEST IV Roundup-Ready, 2013

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	Shattering Score Manhattan KS	Green Stem Score Lafayette IN	SDS DX Valmeyer IL
AG4005	WTBDYBlI	2.0	2.0	11
AG3803	PGBDYIbI	3.0	1.0	1
AG4232	PTTDYBlI	2.0	2.0	22
LD11-13342Ra	WTBDYBlI	2.0	1.0	3
LD11-13834R	WTTDYBlI	2.0	1.0	11
LD11-13948R	PTBDYBlI	2.0	1.0	16
S10-6090RR	PTTDYBlI	3.0	1.0	9
S11-9938	PGTSYIbI	2.0	2.0	10
S11-10082	PGTIYIbI	2.0	1.0	14
S11-10163	PGTDYLIbI	1.0	2.0	12
S03-007CR (sus)				42
Mean				14
LSD				NS
P(0.05)				NS

PRELIMINARY TEST IV Roundup-Ready, 2013

REGIONAL SUMMARY

					Plant	Seed	Seed	Composition	
	Yield	Rank	Maturity	Lodging	Height	Quality	Size	Protein	Oil
No. of Tests	7	7	7	7	7	7	7	4	4
StraIL	bu/a	No.	Date	Score	IL.	g/100	Score	%	%
AG4005	56.3	6	10/1	1.3	33	2.1	16.9	35.4	19.9
AG3803	55.5	8	-3.1	1.3	33	1.9	15.7	34.9	20.2
AG4232	66.3	1	3.6	1.8	35	1.9	14.7	34.7	19.3
LD11-13342Ra	57.1	4	-1.7	1.4	32	2.6	15.3	34.1	19.8
LD11-13834R	56.7	5	-3.2	1.5	30	1.8	14.4	34.4	20.5
LD11-13948R	61.0	2	-2.0	1.4	35	2.4	17.1	36.1	19.6
S10-6090RR	58.5	3	-0.5	2.2	37	1.9	13.1	35.6	18.5
S11-9938	52.4	10	0.7	2.1	37	2.2	15.3	35.4	19.7
S11-10082	54.6	9	0.7	1.7	33	2.3	14.6	35.5	19.4
S11-10163	56.0	7	-1.0	1.8	35	1.9	14.0	34.9	19.4

128.4 Days After Planting

PRELIMINARY TEST IV Roundup-Ready, 2013

YIELD (bu/a)

Strain	Mean 7 Tests	Brownstown IL	Urbana IL	Lafayette IN	Butlerville IN	Columbia MO	Portageville (Clay) MO	Portageville (Loam) MO
AG4005	56.3	46.4	75.2	73.5	54.4	64.3	31.7	48.4
AG3803	55.5	49.8	77.3	69.2	54.7	62.7	29.2	45.4
AG4232	66.3	51.6	78.1	82.1	62.0	75.9	46.4	68.1
LD11-13342Ra	57.1	49.8	75.4	76.6	53.4	59.3	26.6	58.9
LD11-13834R	56.7	45.0	77.9	75.3	50.1	66.6	28.5	53.7
LD11-13948R	61.0	46.2	84.1	79.2	56.7	64.6	36.8	59.5
S10-6090RR	58.5	45.0	74.4	69.2	53.0	74.2	36.6	57.1
S11-9938	52.4	40.2	67.4	63.7	53.6	59.9	31.6	50.4
S11-10082	54.6	45.3	66.3	64.3	56.7	62.7	36.8	50.0
S11-10163	56.0	41.0	67.5	66.7	48.5	64.6	40.5	63.0
Location Mean		46.0	74.4	72.0	54.3	65.5	34.5	55.5
C.V. (%)		10.0	3.8	5.3	6.4	11.8	10.6	7.7
L.S.D. (5%)		10.4	6.3	6.6	6.0	13.2	7.6	9.0
Row Sp. (IN.)		30	30	30	30	30	30	30
Rows/Plot		4	4	4	4	4	4	4
Reps		2	2	3	3	3	3	3

PRELIMINARY TEST IV Roundup-Ready, 2013

YIELD RANK

Strain	Mean 7 Tests	Brownstown IL	Urbana IL	Lafayette IN	Butlerville IN	Columbia MO	Portageville (Clay) MO	Portageville (Loam) MO
AG4005	6	4	6	5	5	6	6	9
AG3803	8	2	4	6	4	8	8	10
AG4232	1	1	2	1	1	1	1	1
LD11-13342Ra	4	2	5	3	7	10	10	4
LD11-13834R	5	7	3	4	9	3	9	6
LD11-13948R	2	5	1	2	2	4	3	3
S10-6090RR	3	8	7	6	8	2	5	5
S11-9938	10	10	9	10	6	9	7	7
S11-10082	9	6	10	9	2	7	3	8
S11-10163	7	9	8	8	10	5	2	2

PRELIMINARY TEST IV Roundup-Ready, 2013

MATURITY (date)

Strain	Mean 7 Tests	Brownstown IL	Urbana IL	Lafayette IN	Butlerville IN	Columbia MO	Portageville (Clay) MO	Portageville (Loam) MO
AG4005	10/1	9/27	10/4	10/9	10/2	9/27	10/10	9/18
AG3803	-3.1	-1	-4	-5	-1	0	-5	-6
AG4232	3.6	4	4	5	2	4	2	4
LD11-13342Ra	-1.7	-2	2	-2	0	-2	-7	-1
LD11-13834R	-3.2	-4	-2	-5	0	-2	-7	-2
LD11-13948R	-2.0	-5	-1	-3	0	-1	-4	0
S10-6090RR	-0.5	0	0	-2	1	0	-4	1
S11-9938	0.7	-2	0	0	2	2	1	2
S11-10082	0.7	-2	2	0	2	0	2	1
S11-10163	-1.0	-3	2	-2	0	-0	-3	-1
Date Planted	5/25	6/7	5/17	5/22	5/29	5/15	6/14	5/13
Days to Mature	128	112	140	140	126	135	118	128

PRELIMINARY TEST IV Roundup-Ready, 2013

LODGING (score)

Strain	Mean 7 Tests	Brownstown IL	Urbana IL	Lafayette IN	Butlerville IN	Columbia MO	Portageville (Clay) MO	Portageville (Loam) MO
AG4005	1.3	1.5	1.0	1.0	1.0	1.5	1.0	2.0
AG3803	1.3	1.8	1.0	1.0	1.0	1.5	1.0	2.0
AG4232	1.8	3.5	1.0	1.5	1.0	1.7	1.0	3.0
LD11-13342Ra	1.4	1.8	1.0	1.3	1.0	1.7	1.0	2.0
LD11-13834R	1.5	2.5	1.0	1.3	1.0	1.7	1.0	2.0
LD11-13948R	1.4	1.8	1.0	1.5	1.0	1.7	1.0	2.0
S10-6090RR	2.2	3.8	1.0	2.3	1.5	2.7	1.0	3.0
S11-9938	2.1	4.0	1.0	2.0	1.3	2.3	1.0	3.0
S11-10082	1.7	2.3	1.0	1.5	1.0	1.8	1.0	3.0
S11-10163	1.8	3.0	1.0	1.5	1.3	2.0	1.0	3.0

PRELIMINARY TEST IV Roundup-Ready, 2013

PLANT HEIGHT (Inches)

Strain	Mean 7 Tests	Brownstown IL	Urbana IL	Lafayette IN	Butlerville IN	Columbia MO	Portageville (Clay) MO	Portageville (Loam) MO
AG4005	33	36	39	39	32	32	22	32
AG3803	33	34	36	39	31	32	25	33
AG4232	35	36	43	41	34	36	26	31
LD11-13342Ra	32	34	38	39	33	31	20	32
LD11-13834R	30	32	37	37	30	31	18	28
LD11-13948R	35	36	39	42	34	36	22	34
S10-6090RR	37	37	44	42	34	40	26	36
S11-9938	37	36	43	43	37	41	26	36
S11-10082	33	33	41	38	33	32	21	33
S11-10163	35	36	42	42	35	35	25	30

PRELIMINARY TEST IV Roundup-Ready, 2013

SEED QUALITY (score)

Strain	Mean 7 Tests	Brownstown IL	Urbana IL	Lafayette IN	Butlerville IN	Columbia MO	Portageville (Clay) MO	Portageville (Loam) MO
AG4005	2.1	1.0	1.0	1.0	3.0	1.0	4.0	4.0
AG3803	1.9	1.0	2.0	1.0	2.5	1.0	3.0	3.0
AG4232	1.9	1.0	2.0	1.5	1.5	1.5	3.0	3.0
LD11-13342Ra	2.6	1.0	3.0	1.5	3.5	1.5	5.0	3.0
LD11-13834R	1.8	1.0	1.0	1.0	2.0	1.5	3.0	3.0
LD11-13948R	2.4	1.0	2.0	1.5	3.5	1.8	4.0	3.0
S10-6090RR	1.9	1.0	2.0	1.0	2.0	1.5	3.0	3.0
S11-9938	2.2	1.0	2.0	1.5	2.5	1.7	4.0	3.0
S11-10082	2.3	1.0	2.0	1.5	2.0	1.5	4.0	4.0
S11-10163	1.9	1.0	2.0	1.0	1.5	1.5	3.0	3.0

PRELIMINARY TEST IV Roundup-Ready, 2013

SEED SIZE (g/100)

Strain	Mean 7 Tests	Brownstown IL	Urbana IL	Lafayette IN	Butlerville IN	Columbia MO	Portageville (Clay) MO	Portageville (Loam) MO
AG4005	16.9	13.6	18.8	16.4	16.1	16.9	19.9	16.3
AG3803	15.7	13.7	18.4	15.8	14.6	15.5	16.6	15.5
AG4232	14.7	13.1	15.9	15.0	13.7	13.3	16.4	15.3
LD11-13342Ra	15.3	12.6	17.9	14.7	13.3	13.7	19.0	16.2
LD11-13834R	14.4	11.4	15.8	14.3	13.4	13.3	18.1	14.3
LD11-13948R	17.1	14.0	19.8	17.7	15.3	15.4	19.7	18.1
S10-6090RR	13.1	11.0	14.5	13.3	11.1	12.9	14.9	13.8
S11-9938	15.3	12.5	15.6	14.6	13.9	14.8	19.6	15.9
S11-10082	14.6	11.7	15.0	14.4	14.5	14.3	18.7	13.7
S11-10163	14.0	10.9	14.5	14.2	12.3	13.3	17.3	15.5

PRELIMINARY TEST IV Roundup-Ready, 2013

PROTEIN (%)

Strain	Mean 4 Tests	Urbana IL	Brownstown IL	Columbia MO
AG4005	35.4	35.1	35.4	35.5
AG3803	34.9	35.2	34.8	34.7
AG4232	34.7	34.9	34.3	34.8
LD11-13342Ra	34.1	34.3	33.7	34.3
LD11-13834R	34.4	34.1	34.6	34.5
LD11-13948R	36.1	35.9	36.3	36.0
S10-6090RR	35.6	35.6	35.8	35.4
S11-9938	35.4	35.5	35.5	35.2
S11-10082	35.5	35.4	35.6	35.4
S11-10163	34.9	34.1	35.6	35.0

* Protein and Oil values converted to 13% moisture basis.

PRELIMINARY TEST IV Roundup-Ready, 2013

OIL (%)

StraIL	Mean 4 Tests	Urbana IL	Brownstown IL	Columbia MO
AG4005	19.9	19.8	19.9	19.8
AG3803	20.2	19.8	20.2	20.7
AG4232	19.3	19.2	19.3	19.4
LD11-13342Ra	19.8	19.5	20.1	19.9
LD11-13834R	20.5	20.5	20.5	20.4
LD11-13948R	19.6	19.7	19.3	19.7
S10-6090RR	18.5	18.3	18.2	18.9
S11-9938	19.7	19.7	19.5	20.0
S11-10082	19.4	19.4	19.1	19.8
S11-10163	19.4	19.8	18.9	19.5