THE UNIFORM SOYBEAN TESTS

NORTHERN REGION

2014

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

2014

USDA-ARS
Crop Production and Pest Control Research Unit
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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 Statements or data in the report, therefore, should not be published unless those concerned have obtained permission previously.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% linoleic check in PTII, and PTIII.

Lodging is rated at maturity according to the following scores:

1 = Almost all plants erect
2 = All plants leaning slightly or a few plants down.
3 = All plants leaning moderately (45 degrees), or 25% to 50% of the plants down.
4 = All plants leaning considerably, or 50% to 80% of the plants down.
5 = Almost all plants down.

Height is the average length in inches of mature plants from the ground to the tip of the main stem. To convert to centimeters, multiply by 2.54.

Seed Size (i.e. weight per seed) is recorded in grams per 100 seeds based on a 100- or 200-seed sample. To convert to seeds per pound, divide this into 45,359.2.

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

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

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

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

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

Green Stem is a rating of delayed green stem at time of plant maturity (R8 = 95% of the pods have reached their mature pod color). The condition is rated according to the following scores.
1 = almost all plant stems yellowing or have ripened, as indicated by their mature stem color.
2 = 1 - 10% plants with green stems
3 = 11 - 25% plants with green stems
4 = 26 - 50% plants with green stems
5 = > 50% plants with green stems.

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

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

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

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

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

DISEASE METHODS

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

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

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

Abbreviation	Disease	Pathogen
BB	Bacterial blight	Pseudomonas syringa pv. glycinea
BBV	Bud blight	Tobacco ringspot virus
BP	Bacterial pustule	Xanthomonas campestris pv. phaseoli
BS	Brown spot	Septoria glycines
BSR	Brown stem rot	Phialophora gregata
BTS	Bacterial tan spot	Corynebacterium flaccumfaciens
CN	Cyst nematode	Heterodera glycines
CR	Charcoal rot	Macrophomina phaseolina
DM	Downy mildew	Peronospora manshurica
FE	Frogeye leafspot	Cercospora sojina
PM	Powdery mildew	Microsphaera diffusa
PR	Phytophthora rot	Phytophthora sojae
PS	Purple stain	Cercospora kikuchii
P&SB	Pod & stem blight	Phomopsis spp.
Pyd	Pythium root rot	Pythium debaryanum
Pyu	Pythium root rot	Pythium ultimum
RK	Root knot nematode	Meloidogyne spp.
RP	Rhizoctonia root rot	Rhizoctonia solani
SB	Sclerotial blight	Sclerotium rolfsii
NSC	Northern Stem canker	Diaporthe phaseolorum var. caulivora
SCL	Sclerotinia stem rot	Sclerotina sclerotiorum
SDS	Sudden death syndrome	Fusarium virguilforme, (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 2014

Variety	Experimental designation	Uniform Test evaluations
Henson	ND09-5604	2014 UT00
MinnGold	M06-297013	

Variety	Release date	Releasing states or Provinces	Foundation seed production
Henson	Jan. 2015	North Dakota	2014
MinnGold	2013	Minnesota	2015

2014 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	FI
Lee	359			
Essex				
PI548402				
PI88788			*no retest done*	
PI90763				
PI437654				
PI209332				
PI89772				
PI548316				
PI438489B				
Pickett				

*=small root

HG Type 2.5.7 (Race1)

Indicator	6 reps Mean	FI	*retest* Mean	FI
Lee	133			
Essex	107			
PI548402	0	0		
PI88788	44	33		
PI90763	0	0	*no retest done*	
PI437654	0	0		
PI209332	46	34		
PI89772	0	0		
PI548316	63	47		
PI438489B	17	13		
Pickett	2	2		

**=rep data too variable to rate

HG Type 0 (Race 3)

Entry	Line	Mean	FI	Rating
1.	MN0071 (00)	218	61	NR
2.	Cavalier	290	81	NR
13.	M08-359053	119	33	**
15.	ND10-2993	62	17	R
3.	Sheyenne	280	78	NR
3.	Surge	290	81	NR
3.	MN0095	226	63	NR
17.	ND10-3434	31	9	HR
18.	ND10-3459	20	6	HR
1	MN1410	273	76	NR
2.	IA1022 (SCN)	17	5	HR
10.	U11-911079	22	6	HR
12.	U11-917032	11	3	HR
25.	ORC 7612N	243	68	NR
5.	IA2102	26	7	HR
4.	LD02-4485	14	4	HR

HG Type 2.5.7 (Race1)

Mean	FI	Rating	Test
161	122	NR	UT00
141	107	NR	UT00
89	67	NR	UT00
86	65	NR	UT00
138	104	NR	UT0,I PT 0,I
116	87	NR	UT0 PT 0
92	69	NR	UT00,0 PT 0
47	35	MR	UT0
49	37	MR	UT0
134	101	NR	UT 0,I PT 0,I
53	40	LR	UT I,II PT I,II
32	24	R	UT I
45	34	MR	UT I
138	104	NR	PT I
55	42	LR	UT II PT II
25	19	R	UT II PT II

		HG Type 0 (Race 3)			HG Type 2.5.7 (Race1)			
Entry	**Line**	**Mean**	**FI**	**Rating**	**Mean**	**FI**	**Rating**	**Test**
15.	LD10-5213a	21	6	HR	32	24	R	UT II
16.	LD10-5587a	28	8	HR	64	48	LR	UT II
17.	LD10-5903a	16	5	HR	49	37	**	UT II
18.	LD10-10198	18	5	HR	51	39	MR	UT II
23.	U11-611112	96	27	**	81	61	NR	UT II
27.	U11-919011	187	52	LR	109	83	NR	UT II
10.	ORC 5811N	7	2	HR	32	24	R	PT II
1	IA3023	231	64	NR	113	85	NR	UT III, PT III
2.	IA3024	243	68	NR	116	88	NR	UT II,III PT II,III
3.	IA3048	5	1	HR	31	23	MR	UT III, PT III
2.	IA4005	275	77	NR	110	83	NR	UT III,IV PT III
7.	LD10-2477	30	8	HR	39	29	MR	UT III
8.	LD10-9168	13	4	HR	24	18	R	UT III
9.	LD10-9200	34	10	R	27	21	R	UT III
10.	LD10-9409	19	5	HR	26	19	R	UT III
11.	LD10-9763	36	10	R	47	35	MR	UT III
12.	LD10-10219	34	9	HR	32	24	R	UT III
13.	LD10-10226	23	6	HR	51	39	LR	UT III
8.	SA10-11227	133	37	MR	56	42	LR	UT IV
6.	M06-289001	48	13	R	44	33	MR	UT 0
16.	ND10-3413	16	4	HR	42	32	MR	UT 0
9.	U11-907098	170	47	LR	93	70	NR	UT I
11.	U11-913028	286	80	NR	90	68	NR	UT I
13.	U11-918019	254	71	NR	103	78	NR	UT I
14.	U11-918052	183	51	LR	128	97	NR	UT I
26.	U11-227016	18	5	HR	37	28	MR	PT I
27.	U11-230030	218	61	NR	123	93	NR	PT I
29.	U12-911082	56	16	R	48	36	MR	PT I
30.	U12-912090	270	75	NR	172	130	NR	PT I
37.	U12-921087	211	59	LR	128	97	NR	PT I
38.	U12-921088	257	72	NR	124	93	NR	PT I
21.	U11-610107	186	52	LR	130	98	NR	UT II
22.	U11-610109	196	55	LR	127	96	NR	UT II
24.	U11-614119	278	77	NR	110	83	NR	UT II
25.	U11-619102	280	78	NR	161	121	NR	UT II
26.	U11-619104	257	72	NR	120	90	NR	UT II
28.	U11-920017	219	61	NR	107	81	NR	UT II
7.	LD11-304	235	66	NR	84	64	NR	PT IIB
8.	LD11-643	267	74	NR	87	66	NR	PT IIB
9.	LD11-6883	37	10	R	37	28	MR	PT IIB
11.	U11-214015	201	56	LR	80	61	NR	PT IIB
12.	U11-230017	223	62	NR	112	85	NR	PT IIB
13.	U11-309049	188	52	LR	92	69	NR	PT IIB
17.	U11-374036	203	57	LR	121	91	NR	PT IIB

HG Type 0 (Race 3)					HG Type 2.5.7 (Race1)			
Entry	**Line**	**Mean**	**FI**	**Rating**	**Mean**	**FI**	**Rating**	**Test**
18.	U11-376008	274	76	NR	114	86	NR	PT IIB
19.	U11-389031	246	69	NR	93	70	NR	PT IIB
20.	U11-396029	261	73	NR	107	81	NR	PT IIB
21.	U11-396034	254	71	NR	108	82	NR	PT IIB
22.	U11-431093	254	71	NR	126	95	NR	PT IIB
23.	U11-444079	192	54	LR	92	69	NR	PT IIB
24.	U11-449075	249	69	NR	134	101	NR	PT IIB
25.	U11-449096	295	82	NR	150	113	NR	PT IIB
16.	U11-616086	217	60	NR	131	99	NR	UT III
17.	U11-616111	237	66	NR	114	86	NR	UT III
18.	U11-622148	281	78	NR	139	105	NR	UT III
19.	U11-649117	276	77	NR	132	100	NR	UT III
5.	LD11-1249	10	3	HR	30	22	R	PT IIIB
6.	LD11-1882	241	67	NR	99	74	NR	PT IIIB
7.	LD11-10069	221	62	NR	132	99	NR	PT IIIB
15.	U11-343008	230	64	NR	102	77	NR	PT IIIB
16.	U11-360009	274	76	NR	69	48	LR	PT IIIB
17.	U11-377007	283	79	NR	118	89	NR	PT IIIB
18.	U11-380035	269	75	NR	107	81	NR	PT IIIB
20.	U11-430085	265	74	NR	102	77	NR	PT IIIB
21.	U11-441098	256	71	NR	90	68	NR	PT IIIB
22.	U11-444083	213	59	LR	115	87	NR	PT IIIB
23.	U11-448096	183	51	LR	78	59	NR	PT IIIB
24.	U11-449088	247	69	NR	115	87	NR	PT IIIB
25.	U11-468126	209	58	LR	114	86	NR	PT IIIB
26.	U11-494100	231	64	NR	93	70	NR	PT IIIB
27.	U11-612121	224	63	NR	92	70	NR	PT IIIB
28.	U11-614093	236	66	NR	78	59	LR	PT IIIB
29.	U12-611009	74	21	**	110	83	**	PT IIIB
17.	LD11-3619	28	8	HR	39	30	MR	PT IV
18.	LD11-9790	239	67	NR	129	97	NR	PT IV
19.	LD11-11299	225	63	NR	126	95	NR	PT IV
30.	S12-1879	208	58	LR	126	95	NR	PT IV
31.	S12-1939	206	58	LR	105	79	NR	PT IV
32.	S12-3318	54	15	R	52	39	MR	PT IV
33.	S12-3443	64	18	R	30	23	R	PT IV
34.	S12-3728	78	22	R	34	26	MR	PT IV
35.	S12-3779	54	15	R	62	47	LR	PT IV
6.	M09-876012	16	4	HR	41	31	MR	UT 0 RR
7.	M09-876016	65	18	**	48	36	**	UT 0 RR
7.	M09-876048	23	6	HR	46	35	MR	UT 0 RR
7.	M09-876048	244	68	NR	116	88	NR	UT I RR

		HG Type 0 (Race 3)			HG Type 2.5.7 (Race1)			
Entry	**Line**	**Mean**	**FI**	**Rating**	**Mean**	**FI**	**Rating**	**Test**
8.	M09-876061	59	16	R	75	57	LR	UT I RR
9.	M09-876062	25	7	HR	43	32	MR	UT I RR
3	AG2632	58	16	R	44	33	MR	UT II RR
1	U03-827101	40	11	R	43	33	MR	UT III RR
2.	AG3832	11	3	HR	33	25	MR	UT III, IV RR
5.	LD11-13479R2a	33	9	HR	31	24	MR	UT III RR
6.	LD11-13494R2a	36	10	R	35	26	MR	UT III RR
7.	LD11-13523R2a	20	6	HR	44	33	MR	UT III RR
8.	LD11-13677R2	16	4	HR	29	22	R	UT III RR
9.	LD11-13802R2	63	18	R	53	40	LR	UT III RR
10.	LD11-14102R	23	6	HR	35	27	MR	UT III RR
11.	LD11-14362R	19	5	HR	30	22	R	UT III RR
12.	U11-607174R	213	59	LR	97	73	NR	UT III RR
3.	AG4232	16	4	HR	40	30	MR	UT IV RR
4.	LD11-13948R	11	3	HR	35	27	MR	UT IV RR
5.	S10-6090RR	21	6	HR	39	29	MR	UT IV RR

2014 Soybean Phytophthora Rps Gene Evaluation

Isolate of P. sojae (pathotype of isolate)

Test	Controls	R1	R7: 95-11-117-4	R17	R25
		7	(1a,2,3a,3c,4,5,6,7)	(1b,1d,2,3,4,5,6,7,8)	(1a,1b,1c,1k,7)
		# D/T	# D/T	# D/T	# D/T
UT00, UT0, & PT0	rps (Williams)	11/12	10/12	9/12	9/12
	1a (Union)	0/11	5/10	2/9	9/12
	1b	0/11	0/11	9/11	9/12
	1c	0/11	0/12	1/12	8/11
	1d	0/12	1/10	9/11	0/11
	1k	0/10	0/9	1/12	8/11
	2	1/12	4/12	8/10	2/11
	3a	0/13	13/13	11/12	0/13
	3b	0/11	0/11	6/12	0/12
	3c	0/12	9/12	1/12	1/11
	4	0/12	8/12	8/12	0/11
	5	0/12	10/12	7/12	0/12
	6	0/12	11/12	7/12	0/12
	7 (Harosoy)	9/12	12/12	7/12	9/12
	8 (PI 399073)	0/11	2/10	0/11	0/11

Test	Entry #	Strain	R1	R7: 95-11-117-4	R17	R25
			7	(1a,2,3a,3c,4,5,6,7)	(1b,1d,2,3,4,5,6,7,8)	(1a,1b,1c,1k,7)
UT00	1.	MN0071 (00)	0/12	9/12	0/10	5/11
UT00	2.	Cavalier	0/12	10/12	9/11	0/11
UT00	3.	MN0095 (0)	6/11	10/11	5/12	12/12
UT00	4.	M04-242040	0/12	11/12	0/12	11/11
UT00	5.	M06-338016	0/12	10/12	0/12	10/12
UT00	6.	M07-260009	2/12	2/12	1/11	10/12
UT00	7.	M07-340035	0/11	3/13	0/13	9/12
UT00	8.	M08-212028	0/12	0/11	2/13	9/12
UT00	9.	M08-271196	1/12	9/12	0/12	5/12
UT00	10.	M08-271308	0/11	11/12	0/13	10/12
UT00	11.	M08-271313	0/12	9/12	0/13	6/12
UT00	12.	M08-271319	0/11	8/10	1/12	10/12
UT00	13.	M08-359053	8/10	7/9	11/12	10/11
UT00	14.	ND09-5604	0/11	2/11	4/13	0/11
UT00	15.	ND10-2993	11/12	8/11	14/14	10/12
UT00	16.	ND10-4423	0/12	1/11	0/13	0/11
UT00	17.	ND10-4839	1/12	10/11	11/12	0/12
UT00	18.	ND10-4865	11/12	6/10	10/13	10/12
UT00	19.	ND11-16570	1/12	12/12	13/13	0/12
UT00	20.	ND11-16587	2/10	10/12	12/13	1/11
UT00	21.	ND11-16588	1/12	8/11	11/13	0/11
UT00	22.	ND11-16827	1/11	10/12	13/13	0/12
UT00	23.	ND11-16843	1/11	11/12	13/13	0/12
UT00	24.	ND11-19225	0/12	11/12	0/12	0/12
UT00	25.	ND11-19314	0/12	10/12	6/12	1/12
UT00	26.	ND11-19322	0/13	11/12	12/12	0/12
UT00	27.	ND11-19513	4/11	4/11	6/10	11/12
UT00	28.	ND11-19539	1/12	0/11	0/12	9/11
UT00	29.	ND11-19725	0/11	12/12	7/12	0/11
UT00	30.	OAC 11-13C	0/12	0/11	0/13	6/12
UT00	31.	OAC 13-05C	0/11	0/12	0/13	0/12
UT00	32.	OAC 13-06C	0/10	5/12	10/13	0/11

2014 Soybean Phytophthora Rps Gene Evaluation

UT0	1.	Sheyenne (0)	0/10	0/12	0/13	10/11
UT0	2.	MN1410 (I)	4/12	12/12	9/13	9/12
UT0	3.	Surge (L)	0/6	8/11	0/10	6/7
UT0	4.	MN0095	0/12	11/12	0/13	12/12
UT0	5.	MN0606CN (SCN)	5/12	8/12	12/13	9/12
UT0	6.	M06-289001	9/11	10/10	12/13	11/12
UT0	7.	M06-380029	5/12	2/11	6/12	10/12
UT0	8.	M07-260028	10/12	7/12	10/13	11/12
UT0	9.	M07-278126	0/12	7/12	0/13	9/12
UT0	10.	M08-144031	0/12	2/12	3/10	11/12
UT0	11.	M08-144119	0/11	0/11	6/13	12/12
UT0	12.	M08-154093	0/12	2/10	7/13	11/12
UT0	13.	ND09-5798	0/11	0/12	0/13	1/12
UT0	14.	ND10-3067	0/12	0/12	0/12	9/10
UT0	15.	ND10-3318	0/10	0/12	1/12	6/12
UT0	16.	ND10-3330	0/12	0/11	0/12	11/12
UT0	17.	ND10-3413	0/9	9/11	11/12	1/12
UT0	18.	ND10-3434	0/11	10/10	11/11	0/11
UT0	19.	ND10-3459	0/12	13/13	13/13	0/12
UT0	20.	ND10-4485	0/12	12/12	3/13	1/10
UT0	21.	ND10-4518	0/11	6/13	0/13	6/11
UT0	22.	OAC 11-25C	7/9	9/12	10/13	7/10
UT0	23.	OAC 11-43C	0/11	0/11	0/12	2/12
PT0	1.	Sheyenne (0)	0/11	12/12	0/12	9/12
PT0	2.	MN1410 (I)	8/11	11/11	7/13	6/12
PT0	3.	Surge (L)	0/6	6/10	0/9	6/9
PT0	4.	MN0095 (E)	0/12	12/12	0/14	8/12
PT0	5.	M08-212033	3/9	8/12	8/11	8/12
PT0	6.	M08-218002	6/12	6/11	8/12	1/12
PT0	7.	M08-218089	0/12	12/12	12/13	0/10
PT0	8.	M08-221060	11/12	12/12	13/13	11/12
PT0	9.	M08-224101	10/10	11/12	12/13	10/11
PT0	10.	M08-225081	2/11	10/12	12/12	3/10
PT0	11.	M08-231043	0/11	7/12	0/13	7/12
PT0	12.	M08-337014	0/10	0/11	0/13	0/12
PT0	13.	M08-427065	1/11	8/12	0/13	3/12
PT0	14.	M08-434013	0/12	0/11	5/13	0/12
PT0	15.	M08-434024	1/12	2/12	3/13	0/10
PT0	16.	M09-159052	0/12	6/12	0/13	12/12
PT0	17.	ND10-2763	0/12	6/12	3/13	2/11
PT0	18.	ND10-2769	0/12	0/12	0/11	10/11
PT0	19.	ND10-3048	0/11	0/11	0/13	12/12
PT0	20.	ND10-3323	1/12	0/12	0/12	12/12
PT0	21.	ND10-3419	0/12	10/11	12/13	0/12
PT0	22.	ND10-3427	0/11	12/12	13/13	0/12
PT0	23.	ND10-3446	0/12	9/10	12/13	0/12
PT0	24.	ND10-3449	0/11	0/11	0/13	12/12
PT0	25.	ND10-3460	0/10	9/10	10/13	0/12
PT0	26.	ND10-3464	0/12	10/12	13/13	0/12
PT0	27.	ND10-3473	0/12	11/12	11/12	0/12
PT0	28.	ND10-3482	0/12	7/10	9/13	0/12
PT0	29.	ND10-3495	2/12	10/11	11/13	0/11
PT0	30.	ND10-3600	1/12	12/12	9/13	0/12
PT0	31.	ND10-3601	0/12	11/12	11/13	0/11
PT0	32.	ND10-3608	3/12	10/12	12/13	0/12
PT0	33.	ND10-3610	1/11	10/10	13/13	0/11
PT0	34.	OAC 12-19C	5/12	4/8	3/12	1/5

PT0	35.	OAC 12-21C	0/11	0/11	8/13	0/11
PT0	36.	OAC 12-31C	1/11	6/12	10/12	1/12
PT0	37.	OAC 12-44C	3/11	0/7	1/12	2/7

Test	Controls	R1	R7: 95-11-117-4	R17	R25
		7	(1a,2,3a,3c,4,5,6,7)	(1b,1d,2,3,4,5,6,7,8)	(1a,1b,1c,1k,7)
		# D/T	# D/T	# D/T	# D/T
UTI, PTI, UTII, & PTIIA	rps (Williams)	8/10	9/12	8/9	4/11
	1a (Union)	0/11	11/12	0/10	4/10
	1b	0/11	1/12	13/13	3/12
	1c	0/11	0/12	0/12	4/10
	1d	0/9	1/12	8/13	0/13
	1k	0/11	0/12	4/10	7/12
	2	0/8	12/12	12/13	2/11
	3a	0/13	13/13	10/11	0/10
	3b	0/12	0/12	8/13	0/13
	3c	0/12	10/12	9/11	0/13
	4	0/10	8/12	6/12	0/10
	5	0/12	12/12	11/13	0/13
	6	0/10	12/12	12/12	0/12
	7 (Harosoy)	7/11	8/11	5/12	1/12
	8 (PI 399073)	2/11	5/9	6/12	0/9

Test	Entry #	Strain	R1	R7: 95-11-117-4	R17	R25
			7	(1a,2,3a,3c,4,5,6,7)	(1b,1d,2,3,4,5,6,7,8)	(1a,1b,1c,1k,7)
UTI	1.	MN1410 (I)	6/12	10/11	9/12	6/12
UTI	2.	IA1022 (SCN)	3/9	5/12	13/13	4/10
UTI	3.	Sheyenne (0)	0/13	0/9	1/12	8/12
UTI	4.	M06-381085	12/12	10/12	13/13	7/12
UTI	5.	M07-278122	0/14	1/12	2/11	0/13
UTI	6.	M08-154007	12/12	11/11	12/12	10/12
UTI	7.	U09-105007	0/12	3/10	2/11	0/10
UTI	8.	U09-118017	5/8	8/8	8/11	2/6
UTI	9.	U11-907098	9/9	9/11	9/10	5/9
UTI	10.	U11-911079	1/9	2/11	1/11	4/8
UTI	11.	U11-913028	0/11	0/10	1/8	1/8
UTI	12.	U11-917032	9/11	3/6	6/8	8/10
UTI	13.	U11-918019	8/8	12/12	9/9	10/12
UTI	14.	U11-918052	6/7	9/10	11/12	3/9
UTI	15.	U11-932025	11/11	8/10	9/11	4/8
UTI	16.	U11-932079	8/8	9/10	5/7	8/11
PTI	1.	MN1410 (I)	7/12	12/12	9/13	5/11
PTI	2.	IA1022 (SCN)	5/12	7/10	13/13	0/12
PTI	3.	Sheyenne (0)	0/12	1/12	0/13	5/10
PTI	4.	AR12-128006	0/11	0/12	2/13	6/12
PTI	5.	AR12-228090	5/12	2/11	8/13	3/13
PTI	6.	AR13-132025	0/11	0/12	0/13	5/12
PTI	7.	AR13-132036	0/12	0/12	0/12	9/13
PTI	8.	AR13-132037	1/11	0/12	2/13	4/12
PTI	9.	AR13-132061	0/12	10/11	12/12	0/12
PTI	10.	AW12-701034	8/12	7/9	11/11	7/10
PTI	11.	AW12-701044	9/9	11/11	12/12	9/10
PTI	12.	M08-144103	0/11	4/12	1/13	13/14

PTI	13.	M08-207033	0/8	0/11	1/11	3/7
PTI	14.	M08-224032	0/10	1/11	1/12	1/12
PTI	15.	M08-391087	4/10	12/12	12/12	1/13
PTI	16.	M08-608002	9/12	6/12	12/13	6/11
PTI	17.	M08-608051	0/12	9/10	0/12	1/14
PTI	18.	M08-609011	3/10	0/11	7/12	4/12
PTI	19.	M09-169049	11/12	11/12	13/13	4/12
PTI	20.	OAC 12-61C	6/10	6/12	11/13	8/13
PTI	21.	OAC 12-66C	9/11	7/11	13/13	5/12
PTI	22.	OAC 12-86C	0/11	9/10	12/12	10/12
PTI	23.	OAC 12-98C	0/10	5/12	9/12	0/12
PTI	24.	OAC 12-107C-HO	4/11	9/12	4/12	1/13
PTI	25.	ORC 7612N	0/12	5/12	9/10	0/11
PTI	26.	U11-227016	9/10	9/10	12/12	6/11
PTI	27.	U11-230030	11/11	11/12	13/13	2/10
PTI	28.	U12-905062	10/10	11/11	12/12	7/10
PTI	29.	U12-911082	10/10	12/12	13/13	9/10
PTI	30.	U12-912090	1/11	10/12	13/13	1/13
PTI	31.	U12-916003	9/9	10/11	12/12	7/9
PTI	32.	U12-918010	11/12	9/10	12/12	9/10
PTI	33.	U12-919011	6/8	10/11	11/12	4/13
PTI	34.	U12-920016	8/10	11/12	11/11	2/12
PTI	35.	U12-921005	6/10	6/10	12/13	0/10
PTI	36.	U12-921014	2/8	7/11	10/10	1/10
PTI	37.	U12-921087	6/10	10/12	13/13	5/12
PTI	38.	U12-921088	8/12	8/12	10/11	2/10
PTI	39.	U12-922059	2/11	4/12	13/13	0/11
UTII	1.	IA 2102 (II)	9/12	9/11	12/12	7/11
UTII	2.	IA1022 (SCN)	7/11	8/12	13/13	5/10
UTII	3.	IA3024	0/12	0/11	2/12	10/13
UTII	4.	LD02-4485 (SCN)	2/10	3/10	8/13	8/11
UTII	5.	IA2109	12/12	11/11	11/11	12/12
UTII	6.	AR11-214001	0/12	3/12	3/13	9/13
UTII	7.	AR12-228007	0/12	7/12	8/13	11/12
UTII	8.	AR12-228047	6/11	6/11	8/13	8/11
UTII	9.	AW10-653019	0/11	0/11	6/12	4/11
UTII	10.	AW11-103013	9/11	12/12	12/13	9/11
UTII	11.	AW11-203034	0/11	12/12	0/13	4/12
UTII	12.	AW11-203039	9/11	8/12	9/12	9/11
UTII	13.	E11401	0/10	0/9	0/13	5/10
UTII	14.	E11431	0/11	0/9	0/10	6/11
UTII	15.	LD10-5213a	7/11	12/12	13/13	7/13
UTII	16.	LD10-5587a	6/10	11/11	11/13	7/10

UTII	17.	LD10-5903a	4/12	10/11	7/13	3/12
UTII	18.	LD10-10198	8/11	12/12	10/13	11/12
UTII	19.	MLG03-4069017	0/12	0/11	0/13	7/13
UTII	20.	U09-133021	8/11	9/11	5/12	3/13
UTII	21.	U11-610107	3/11	10/11	5/13	4/11
UTII	22.	U11-610109	8/12	11/12	8/13	5/12
UTII	23.	U11-611112	8/12	10/11	4/13	9/11
UTII	24.	U11-614119	1/12	0/12	0/13	5/11
UTII	25.	U11-619102	9/12	10/10	8/13	6/11
UTII	26.	U11-619104	7/9	9/11	6/13	10/13
UTII	27.	U11-919011	5/10	9/11	6/13	1/11
UTII	28.	U11-920017	0/9	0/12	1/13	2/11
PTIIA	1.	IA 2102 (II)	8/12	9/12	6/13	7/13
PTIIA	2.	IA1022 (SCN)	5/10	9/12	5/12	9/12
PTIIA	3.	IA3024	0/10	0/11	1/12	7/11
PTIIA	4.	AR12-228071	10/11	9/11	4/12	3/13
PTIIA	5.	AR13-232001	0/11	0/12	0/13	9/11
PTIIA	6.	AR13-232013	0/12	11/11	0/12	12/13
PTIIA	7.	AR13-232102	0/13	0/12	2/13	7/12
PTIIA	8.	AW12-701015	8/9	10/11	4/11	9/12
PTIIA	9.	AW12-701024	1/10	1/11	1/11	7/11
PTIIA	10.	AW12-702029	4/9	11/11	10/12	8/13
PTIIA	11.	AW12-801020	9/10	10/10	7/10	11/12
PTIIA	12.	E12007	2/11	8/12	1/12	6/13
PTIIA	13.	E12020	0/9	0/11	2/13	7/11
PTIIA	14.	E12023	6/10	11/11	5/11	10/13
PTIIA	15.	E12034	6/10	8/11	7/12	4/11
PTIIA	16.	E12042	0/11	0/11	5/11	1/9
PTIIA	17.	E12061	2/10	3/11	0/11	6/13
PTIIA	18.	E12076	0/10	0/12	6/9	2/10
PTIIA	19.	E12084	0/12	0/11	7/12	9/12
PTIIA	20.	E12247	10/12	3/8	0/10	0/11
PTIIA	21.	E12377	10/10	9/10	0/13	6/12
PTIIA	22.	E12397	9/11	J12	4/12	9/12
PTIIA	23.	M08-608015	1/12	7/7	0/13	9/13
PTIIA	24.	M08-608018	10/11	9/11	5/12	4/11
PTIIA	25.	M08-608106	0/12	9/10	0/13	11/12
PTIIA	26.	MLG03-4069017	1/10	0/11	1/13	11/13
PTIIA	27.	MLG07-6251013	0/10	10/12	2/12	0/12

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Test	Controls	R1	R7: 95-11-117-4	R17	R25
		7	(1a,2,3a,3c,4,5,6,7)	(1b,1d,2,3,4,5,6,7,8)	(1a,1b,1c,1k,7)
		# D/T	# D/T	# D/T	# D/T
PTIIA, UTIII, PTIIIA, PTIIIB, & UTIV	rps (Williams)	11/12	9/11	10/12	4/9
	1a (Union)	1/8	5/10	0/10	3/10
	1b	0/11	0/10	10/11	7/12
	1c	0/11	0/12	0/12	4/8
	1d	1/12	1/9	12/12	0/12
	1k	0/11	0/10	0/10	4/10
	2	0/11	8/10	5/10	0/8
	3a	0/12	12/13	11/11	0/10
	3b	0/12	0/12	2/12	0/12
	3c	7/12	10/12	7/14	0/12
	4	0/12	7/12	4/9	0/9
	5	3/12	10/12	8/13	0/11
	6	2/12	12/12	9/12	0/12
	7 (Harosoy)	10/12	10/11	10/12	3/12
	8 (PI 399073)	1/12	2/10	3/12	0/11

Test	Entry #	Strain	R1	R7: 95-11-117-4	R17	R25
			7	(1a,2,3a,3c,4,5,6,7)	(1b,1d,2,3,4,5,6,7,8)	(1a,1b,1c,1k,7)
PTIIB	1.	IA 2102 (II)	8/12	8/11	13/13	10/12
PTIIB	2.	IA1022 (SCN)	4/11	5/12	11/12	3/12
PTIIB	3.	IA3024	0/11	0/12	0/12	7/11
PTIIB	4.	HM12-P077	0/10	0/11	0/13	1/12
PTIIB	5.	HM12-W005	7/12	6/12	6/13	10/10
PTIIB	6.	HR10-3060	7/11	9/12	6/10	1/12
PTIIB	7.	LD11-304	10/10	12/12	11/13	5/10
PTIIB	8.	LD11-643	0/10	0/12	0/13	10/12
PTIIB	9.	LD11-6883	12/12	12/12	12/12	12/12
PTIIB	10.	ORC 5811N	10/12	9/11	12/12	6/11
PTIIB	11.	U11-214015	0/11	1/11	0/10	6/10
PTIIB	12.	U11-230017	8/11	11/12	3/7	7/10
PTIIB	13.	U11-309049	0/11	1/12	1/13	6/10
PTIIB	14.	U11-310076	11/12	4/5	8/9	8/11
PTIIB	15.	U11-311071	10/11	10/10	9/10	7/9
PTIIB	16.	U11-346046	0/12	0/11	7/13	0/11
PTIIB	17.	U11-374036	11/11	11/12	12/12	12/12
PTIIB	18.	U11-376008	6/8	11/11	8/9	6/8
PTIIB	19.	U11-389031	0/12	0/11	1/10	7/10
PTIIB	20.	U11-396029	0/12	0/12	0/12	10/11

PTIIB	21.	U11-396034	0/11	1/12	2/12	9/11
PTIIB	22.	U11-431093	10/11	10/12	12/12	3/11
PTIIB	23.	U11-444079	10/11	10/10	7/7	6/10
PTIIB	24.	U11-449075	0/12	0/12	3/13	10/12
PTIIB	25.	U11-449096	0/11	3/11	0/11	9/11
UTIII	1.	IA3023 (III)	12/12	12/12	11/13	9/12
UTIII	2.	IA3024	0/11	0/10	0/11	8/12
UTIII	3.	IA3048 (SCN)	11/12	9/11	11/13	5/11
UTIII	4.	IA4005	7/12	9/12	7/10	9/12
UTIII	5.	AR11-214015	0/12	0/11	0/13	7/12
UTIII	6.	HM11-W192	0/11	0/12	4/12	0/11
UTIII	7.	LD10-2477	10/10	6/12	10/12	3/11
UTIII	8.	LD10-9168	3/11	9/10	10/13	4/10
UTIII	9.	LD10-9200	9/11	9/9	11/13	4/12
UTIII	10.	LD10-9409	12/12	11/12	13/13	8/12
UTIII	11.	LD10-9763	3/12	9/10	11/11	2/11
UTIII	12.	LD10-10219	8/11	12/12	10/11	4/12
UTIII	13.	LD10-10226	0/12	2/10	10/12	2/12
UTIII	14.	LG11-6210	9/10	11/12	0.01	11/12
UTIII	15.	LG11-6214	8/10	10/12	12/13	8/11
UTIII	16.	U11-616086	5/10	3/12	6/11	4/12
UTIII	17.	U11-616111	0/12	0/10	0/13	2/11
UTIII	18.	U11-622148	1/12	0/10	0/11	0/11
UTIII	19.	U11-649117	12/12	9/11	12/13	8/10
PTIIIA	1.	IA3023 (III)	10/11	9/11	7/11	4/10
PTIIIA	2.	IA3024	0/11	0/9	0/11	3/11
PTIIIA	3.	IA3048 (SCN)	10/12	8/12	10/12	5/11
PTIIIA	4.	IA4005	6/11	3/12	4/11	6/11
PTIIIA	5.	AR13-332001	0/11	1/6	0/11	9/11
PTIIIA	6.	AR13-332013	0/12	9/10	0/11	7/11
PTIIIA	7.	AR13-332017	0/11	0/12	0/12	11/12
PTIIIA	8.	AR13-332023	0/11	0/12	1/9	8/10
PTIIIA	9.	AR13-332029	9/10	7/9	10/10	4/10
PTIIIA	10.	AR13-332030	9/10	10/11	9/10	7/12
PTIIIA	11.	AR13-332047	0/11	8/11	0/10	7/12
PTIIIA	12.	AR13-332056	0/7	1/9	1/10	3/11
PTIIIA	13.	AR13-332057	1/9	0/9	1/10	3/11
PTIIIA	14.	AR13-332085	0/9	3/9	0/10	3/10
PTIIIA	15.	AW12-801031	5/10	9/11	9/9	3/10
PTIIIA	16.	AW12-801045	2/12	3/11	6/11	3/11
PTIIIA	17.	HM12-N067	0/11	10/12	0/13	7/10
PTIIIA	18.	HM12-N069	4/11	5/9	8/13	5/10

PTIIIA	19.	HM12-O040	0/11	7/12	0/12	5/12
PTIIIA	20.	HM12-O068	0/11	7/11	0/13	1/12
PTIIIA	21.	HM12-W069	0/12	7/10	9/11	0/11
PTIIIA	22.	HM12-W171	0/9	0/12	1/12	0/11
PTIIIA	23.	HM12-W180	0/12	1/12	0/12	0/11
PTIIIA	24.	HM12-W300	11/13	10/11	10/12	4/11
PTIIIA	25.	HR10-3325	0/12	2/12	1/13	11/12
PTIIIA	26.	HR10-3329	0/11	0/12	0/13	11/12
PTIIIA	27.	HR10-3349	11/12	11/12	6/11	7/11
PTIIIA	28.	SA11-3268	9/10	6/9	5/11	3/10
PTIIIB	1.	IA3023 (III)	10/11	12/12	12/13	9/12
PTIIIB	2.	IA3024	0/11	0/11	0/11	11/11
PTIIIB	3.	IA3048 (SCN)	8/11	11/11	7/13	9/11
PTIIIB	4.	IA4005	7/12	6/12	3/12	9/12
PTIIIB	5.	LD11-1249	6/12	2/11	10/13	8/12
PTIIIB	6.	LD11-1882	0/12	0/10	0/13	11/12
PTIIIB	7.	LD11-10069	0/12	0/11	0/13	11/12
PTIIIB	8.	LG10-3432	1/12	9/11	9/12	0/12
PTIIIB	9.	LG11-6212	5/12	10/11	9/12	1/12
PTIIIB	10.	LG12-1023	0/11	7/12	0/12	11/12
PTIIIB	11.	LG12-2087	7/11	11/12	7/12	10/12
PTIIIB	12.	LG12-2096	0/12	0/12	0/9	10/12
PTIIIB	13.	LG12-2177	0/12	0/11	1/13	7/12
PTIIIB	14.	LG12-3913	0/11	3/12	0/10	8/11
PTIIIB	15.	U11-343008	10/12	6/10	9/13	8/12
PTIIIB	16.	U11-360009	10/11	8/10	4/11	8/11
PTIIIB	17.	U11-377007	8/9	10/11	10/12	9/10
PTIIIB	18.	U11-380035	12/12	9/12	11/12	9/11
PTIIIB	19.	U11-410122	0/11	0/12	0/11	4/11
PTIIIB	20.	U11-430085	2/11	9/12	0/11	9/11
PTIIIB	21.	U11-441098	7/10	8/11	8/12	6/9
PTIIIB	22.	U11-444083	4/12	1/12	3/12	4/10
PTIIIB	23.	U11-448096	10/11	11/12	7/12	11/12
PTIIIB	24.	U11-449088	0/10	0/11	0/13	6/11
PTIIIB	25.	U11-468126	4/10	4/12	8/13	11/12
PTIIIB	26.	U11-494100	1/12	0/10	0/12	1/11
PTIIIB	27.	U11-612121	6/12	10/12	5/13	7/12
PTIIIB	28.	U11-614093	6/12	5/11	2/13	11/12
PTIIIB	29.	U12-611009	7/10	9/11	11/13	6/11
UTIV	1.	LD06-7620	5/12	6/12	10/12	2/12
UTIV	2.	IA4005	7/11	6/12	7/13	11/12
UTIV	3.	LD00-2817P (L)	9/11	10/12	4/11	8/11

UTIV	4.	HM11-W193	0/11	0/12	6/13	1/11
UTIV	5.	LG11-6190	8/11	10/12	6/11	11/12
UTIV	6.	LG11-6208	2/12	8/10	9/13	10/12
UTIV	7.	SA10-8471	7/11	11/12	7/11	4/11
UTIV	8.	SA10-11227	11/12	8/9	9/13	6/12

Test	Controls	R1	R7: 95-11-117-4	R17	R25
		7	(1a,2,3a,3c,4,5,6,7)	(1b,1d,2,3,4,5,6,7,8)	(1a,1b,1c,1k,7)
		# D/T	# D/T	# D/T	# D/T
PTIV, UTRR0, UTRRI, UTRRII. UTRRIII, & UTRRIV	rps (Williams)	11/11	11/12	11/11	9/11
	1a (Union)	0/8	8/11	0/12	8/12
	1b	0/13	1/12	12/13	2/11
	1c	0/9	0/12	6/12	7/10
	1d	0/12	1/12	12/14	1/13
	1k	0/12	1/10	7/11	8/11
	2	3/10	6/12	10/11	1/9
	3a	0/13	12/12	11/13	0/11
	3b	1/12	0/12	13/13	0/13
	3c	3/14	11/11	6/15	0/13
	4	0/13	6/12	8/13	0/10
	5	1/13	10/11	12/13	0/12
	6	0/12	9/12	8/10	0/10
	7 (Harosoy)	11/12	7/11	9/12	5/12
	8 (PI 399073)	2/13	10/11	7/12	0/12

Test	Entry #	Strain	R1	R7: 95-11-117-4	R17	R25
			7	(1a,2,3a,3c,4,5,6,7)	(1b,1d,2,3,4,5,6,7,8)	(1a,1b,1c,1k,7)
PTIV	1.	LD06-7620	11/13	8/10	11/14	8/12
PTIV	2.	IA4005	9/12	8/11	13/14	1/12
PTIV	3.	LD00-2817P (L)	8/12	11/12	10/13	3/10
PTIV	4.	HR10-3342	0/13	0/11	6/13	4/12
PTIV	5.	JTN-4114	10/11	11/11	12/12	5/11
PTIV	6.	JTN-4214	9/10	7/9	12/13	1/10
PTIV	7.	K12-1464	2/9	0/11	8/12	6/9
PTIV	8.	K12-1546	0/10	0/8	4/12	2/7
PTIV	9.	K12-1575	0/10	6/9	2/10	2/9
PTIV	10.	K12-1770	5/7	6/11	9/11	2/8
PTIV	11.	K12-1781	0/11	0/11	0/9	1/8
PTIV	12.	K12-2094	4/8	3/9	7/11	3/9
PTIV	13.	K12-2236	0/9	0/12	11/12	4/10
PTIV	14.	K12-2315	0/10	0/7	5/11	5/10

PTIV	15.	K12-2333	0/12	0/11	2/12	6/10
PTIV	16.	K12-2344	8/9	6/6	10/11	5/9
PTIV	17.	LD11-3619	0/10	0/12	1/12	0/10
PTIV	18.	LD11-9790	0/12	0/11	0/14	0/10
PTIV	19.	LD11-11299	0/10	0/11	0/14	0/13
PTIV	20.	LG10-3278	0/11	11/12	13/13	0/13
PTIV	21.	LG11-6759	9/10	11/12	13/13	7/12
PTIV	22.	LG11-6760	11/12	11/12	13/14	9/12
PTIV	23.	LG12-3475	10/11	10/12	8/13	6/13
PTIV	24.	LG12-3478	11/11	12/12	12/13	8/12
PTIV	25.	LG12-3738	0/12	3/11	5/13	6/11
PTIV	26.	LG12-3771	0/11	0/12	4/12	3/11
PTIV	27.	LG12-4068	0/12	0/11	4/14	4/10
PTIV	28.	LG12-4072	0/11	0/12	4/13	3/12
PTIV	29.	LG12-4073	0/12	0/12	13/13	8/12
PTIV	30.	S12-1879	0/12	0/11	10/14	6/11
PTIV	31.	S12-1939	0/11	0/12	9/13	4/11
PTIV	32.	S12-3318	1/9	4/10	11/12	4/9
PTIV	33.	S12-3443	9/9	6/10	13/14	3/9
PTIV	34.	S12-3728	1/8	6/12	0/11	2/10
PTIV	35.	S12-3779	9/11	5/11	9/12	3/10
PTIV	36.	SA11-15334	10/10	10/11	13/13	6/10
PTIV	37.	SA11-18687	12/12	8/9	7/8	5/9
UT0RR	1.	AG0532	0/12	0/12	12/13	8/13
UT0RR	2.	AG0231 (E)	0/10	0/11	2/12	7/10
UT0RR	3.	AG0832	0/12	12/12	12/14	0/12
UT0RR	4.	AG1230	0/12	0/12	7/14	11/13
UT0RR	5.	M06R-614008	7/9	4/8	7/11	4/10
UT0RR	6.	M09-876012	10/10	10/11	10/13	7/9
UT0RR	7.	M09-876016	0/6	0/10	11/12	9/10
UT0RR	8.	M09-876048	0/10	2/9	10/10	8/9
UT0RR	9.	M09-878011	2/12	6/11	14/14	11/11
UT0RR	10.	M09-878071	0/11	0/12	12/13	12/12
UT0RR	11.	M09-878072	1/12	2/12	14/14	12/13
UT0RR	12.	M09-878087	5/11	7/9	11/13	10/11
UT0RR	13.	M09-878090	5/8	10/10	12/13	7/13
UT0RR	14.	MN1410R2F5-83	1/10	2/11	4/10	5/11
UT0RR	15.	MN1410R2F5-121	8/9	9/11	9/12	6/8
UT0RR	16.	ND11-3473	0/11	3/12	0/11	6/10
UT0RR	17.	ND11-3672	0/10	0/12	10/12	6/10
UT0RR	18.	ND11-3778	0/11	0/12	7/13	6/11
UT0RR	19.	ND11-3819	0/12	0/12	8/12	0/12
UT0RR	20.	ND11-3820	0/11	0/12	3/14	6/13

UTIRR	1.	AG1631	0/11	0/12	0/14	6/13
UTIRR	2.	AG1230 (E)	0/12	0/12	4/14	9/13
UTIRR	3.	U07-135601R	0/10	0/11	6/12	6/13
UTIRR	4.	AG2031	0/11	0/12	0/13	5/13
UTIRR	5.	M00-530039	4/9	7/7	4/8	6/10
UTIRR	6.	M09-876026	3/12	8/12	13/13	13/13
UTIRR	7.	M09-876048	0/13	0/12	12/13	11/12
UTIRR	8.	M09-876061	9/9	11/12	9/12	8/10
UTIRR	9.	M09-876062	6/9	12/12	11/11	10/13
UTIRR	10.	M09-877004	3/12	1/12	9/14	11/13
UTIRR	11.	M09-877022	6/10	11/12	8/12	12/13
UTIRR	12.	M09-878013	9/10	12/12	13/14	10/12
UTIRR	13.	MN1410R2F5-117	0/10	4/12	12/13	10/11
UTIRR	14.	U12-903108R	11/12	11/12	11/12	9/12
UTIRR	15.	U12-904114R	0/11	1/12	8/12	4/11

UTIIRR	1.	U06-814223R (II)	0/12	0/12	9/13	10/13
UTIIRR	2.	AG2031 (E)	0/11	0/12	2/14	5/13
UTIIRR	3.	AG2632	0/12	11/12	0/13	7/13
UTIIRR	4.	NEX2905A0R (L)	12/12	10/10	9/13	12/13
UTIIRR	5.	M09-877021	0/11	1/11	13/14	12/12
UTIIRR	6.	M09-877026	2/11	5/12	14/14	11/12
UTIIRR	7.	U11-607166R	0/11	0/12	10/12	7/12
UTIIRR	8.	U12-903112R	2/11	7/12	14/14	10/12
UTIIRR	9.	U12-909109R	0/11	0/11	8/11	5/13
UTIIRR	10.	U12-917123R	0/11	0/12	1/12	11/13
UTIIRR	11.	U12-920124R	0/12	0/11	10/14	8/13
UTIIRR	12.	U12-923116R	0/12	0/11	5/13	8/13
UTIIRR	13.	U12-924100R	0/10	0/11	1/13	6/11
UTIIRR	14.	U12-924117R	0/11	1/12	11/14	8/12
UTIIRR	15.	U12-926115R	0/12	0/12	13/14	12/13

UTIIIRR	1.	U03-827101 (SCN)	0/10	1/10	4/14	10/13
UTIIIRR	2.	NEX2905A0R (E)	9/11	1/12	12/13	11/13
UTIIIRR	3.	AG3432	0/11	0/12	0/14	8/10
UTIIIRR	4.	AG3832	0/10	0/12	0/12	5/11
UTIIIRR	5.	LD11-13479R2a	8/12	11/11	12/13	12/12
UTIIIRR	6.	LD11-13494R2a	10/11	12/12	14/14	12/12
UTIIIRR	7.	LD11-13523R2a	10/12	12/12	10/10	10/13
UTIIIRR	8.	LD11-13677R2	5/11	12/12	12/13	11/13
UTIIIRR	9.	LD11-13802R2	0/12	0/12	12/13	11/11
UTIIIRR	10.	LD11-14102R	3/12	6/12	12/13	10/13
UTIIIRR	11.	LD11-14362R	8/12	11/12	12/14	5/12

UTIIIRR	12.	U11-607174R	0/11	0/12	10/13	8/13
UTIIIRR	13.	U12-916110R	0/10	0/11	10/12	10/12
UTIIIRR	14.	U12-917111R	0/10	1/11	1/13	8/12
UTIVRR	1.	AG4032	0/10	5/12	3/14	10/13
UTIVRR	2.	AG3832	0/11	0/11	0/13	0/11
UTIVRR	3.	AG4232	0/12	11/11	0/14	8/13
UTIVRR	4.	LD11-13948R	8/12	12/12	13/14	7/13
UTIVRR	5.	S10-6090RR	0/11	0/11	7/13	7/9
UTIVRR	6.	SA11-9446	0/15	11/11	0/11	8/9
UTIVRR	7.	SA11-9478	0/11	10/10	0/12	11/13
UTIVRR	8.	SA11-10168	0/12	9/11	6/14	6/13
UTIVRR	9.	SA11-10182	0/14	2/11	9/13	7/11

Identification of Parent Strains 2014

Strain	Parentage
A00-711024	A95-485020 x IA2036
A04-543037	
A04-545045	Pioneer 93B86 x A00-711022
A05-112034	
A06-712040	
A07-421013	
A07-521011	
A07-521018	
A08-252033	
A08-252040	
A86-204022	Hack x Zane
A92-535059	Asgrow A2187 x [(A86-186011 x DSR 252) x A87-187020]
A96-492041	NKS24-92 x NKS19-90
A97-553017	Pioneer YB280 x (Pioneer YB280 x A29)
A97-871009	NK S20-20 x (A92-535029 x IA20121)
A99-217006	Dairyland DSR-365 x Agripro Ap1995
AgriPro98180-	
AR03-263051	LS90-1920 x IA1008
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
AR07-176037	IAR2001BSR x Soygenetics 96-2205
AR07-176075	Golden Harvest 24040 x Golden Harvest H-2285
AR07-276077	Golden Harvest 24040 x Golden Harvest H-2285
AR07-376031	Syngenta S16-Y6 x LS99-2235
AR3	
Ashtabula	ND95-952 x Council
Cavalier	Sargent x ND96-1006
CL05-32415	na
Colby	
D03-5441	
Dairyland75047N	
Dairyland75170	
Dairyland75221	Dairyland 98820-33 x A3237
Dairyland75226	
Dairyland98822	
Dairyland99540	
DairylandDSR-365	

Identification of Parent Strains 2014

Strain	Parentage
Dennison	Athow × HS94-4533
Dwight	Jack x A86-303014
E00003	Agripro AP1995 x Pioneer P9281
E05030	
E05053	
E07048	IA3017 x Loda
E07906-2	SDX00R-039-42 x PI 567541B
E08242	
E08901	
E08902	E00003 x PI 567543C
E08929	E00003 x E07906-2
E09932	E00003 x E07906-2
GoldenHarvest24040	
GoldenHarvestH-2285	
H2885	
H-2885	
Hamlin	
Harmony	(Maple Presto x Ivilliams) x Weber.
HEINONG44	
Hendricks	
HS1-3886	
HS2-4225	
HS4-5450	
HS4-9890	
HS5-3417	IA3023 x HS99-4045
HS5-7262	
HS5W-661	
HS5W-767	
HS6-3973	
HS6-3976	
HS7-6857	
HS93-4118	IA2007 x Dairyland DSR 304
HS94-9053	P9268-003 x Vertex
IA2064	
IA2068	
IA2079	
IA2096	99345 x IA2064
IA2101	
IA3010	
IA3023	Dairyland DSR-365 x Pioneer P9381
IA3025	

Identification of Parent Strains 2014

Strain	Parentage
IA3026	
IA3042	T-3211 X A15025B011
IAR2001BSR	
IAR2101SCN	
Ina	
J74-122	Forrest (2) x (D68-18 x PI 88.788)
Jim	Sigco KG20 X M81-18
JiYuNo.80	
K07-1544	
K1277	Hutcheson x Asgrow A3428
Kato	
Katrina	SW33-08 x S15-20
L61-344	Harosoy x T117, Dt2
LaMoure	SD92-1323 X M90-370
LD00-2817	Ina x Dwight
LD00-3296	LN95-5724 x Pana
LD00-3309	Maverick x Dwight
LD01-7323	LN95-5454 x Dwight
LD02-4485	M90-184111 x IA3010
LD02-7222P	Macon x LS93-0375
LD03-6566	LN95-6446 x SS96-5637
LD04-11056	U96-2208 x Syngenta S38-T8
LD04-13265	Syngenta S32-Z3 x U98-205355
LD04-13296	Syngenta S32-Z3 x U98-311442
LD04-5907	
LD04-8782	Syngenta S32-Z3 x Dwight
LD05-16413	
LD05-16638	Dwight(3) x (Dowling x Loda)
LD05-3230	Syngenta S25-J5 x LD00-3296
LD05-8517	LD00-2817 x Syngenta S38-T8 LD05-16066
LD06-2009	U97-201128 x U98-307162
LD06-7596	
LD06-7620	IA3023 x LD00- 3309
LD06-7648	A3023 x LD00- 3309
LDX08-210a	LD04-8782(3) x [LD03-6566 x ((LD02-4485 x (Ina x PI 200538))]
LG00-3372	PI 561.319A x PI 574.477
LG00-6182	F6 PI 561.319A x PI 574.477
LG00-6313	F6 PI 574480B x PI 574477
LG00-6925	PI427099 x PI445830
LG00-8301	PI 574477 x PI 561377
LG01-4918	Macon x PI 507295

Identification of Parent Strains 2014

Strain	Parentage
LG01-7728	F4 Williams 82 x (F1 Williams x PI 479767)
LG02-4198	LG94-1133 x LG93-7654
LG03-11572	
LG03-1686	
LG03-2087	
LG03-2979	F6 Rend x LG95-258
LG03-3020	F6 LG96-1711 x LG92-4208 LG03-3780
LG03-3780	
LG03-6296	
LG04-3292	HS93-4118 x LG97-5474
LG04-3763	
LG04-3765	
LG04-5187	
LG04-5988	
LG04-5993	
LG04-6000	HS93-4118 x LG97-9912
LG04-6005	HS93-4118 x LG97-9912
LG05-4017	
LG05-4321	
LG05-4471	
LG05-4550	
LG05-4557	
LG05-4832	
LG04-6000	HS93-4118 x LG97-9912
LG09-5256	
LG84-1096	PI 297.515 x PI 290.126B
LG88-3146	F6 LG82-8224 x Hobbit
LG98-1445	
LN95-5454	Jack x IA3003
LN95-5724	Jack x IA3003
LS90-1920	Essex x Fayette
LS94-3207	Asgrow A3935 x Pioneer P9404
M00-110002	MN0301 X MN0304
M00-351195	
M00-365181	Jim x LN94-14862-97-2
M01-228058	
M01-242042	MN0302 x PI495831
M02-141020	
M02-328023	
M02-333013	
M02-391112	IA1008 x M96-356062

Identification of Parent Strains 2014

Strain	Parentage
M03-276016	
M03-331015	
M90-184111	L85P-558 x M86-1973
M91-564	M74-337 x M74-23
M91-895	M81-27 x M85-52
M92-270029	M87-227 x M87-346
M92-597	Pioneer P6061 x Ozzie
M93-313185	Agassiz x M90-1437
M95-306-104	CX1538-70-11-1 x M92-119
M96-133030	F3 Lambert(2) x Resnick BC2F2
M96-133047	F3 Lambert(2) x Resnick BC2F2
M96-136086	M90-162034 x IA2021
M96-136-20	F3 ND(M)90-370(2) x Resnick BC2F3
M97-136016	M90-162034 x IA2021
M99-274166	PI548379(OTTAWA x MANDARIN) x S19-90
M99-286047	IA1008 x Pioneer 9234
MN0071	
MN0091	
MN0094SP	
MN0095	
MN0107	MN0302 x Daksoy
MN0302	
MN0304	
MN0307SP	
MN0504	
MN0901	
MN0902CN	Jack x Alpha
MN1013	
MN1410	MN0302 x Archer
MN1410BC2R2F2-3	
MN1410BC2R2F2-4	
MN1701CN	
MN1803RR	Parker(2) x Resnick BC2F2
N34505R	RR Line
ND00-2765	M91-895 x ND93-5849
ND00-547	Pioneer 9092 x Korada
ND02-3783	ND95-938 x Korada
ND02-971	Celeste x Crawford
ND03-5037	Barnes x SD96-33
ND03-5441	Barnes x MN9002CN
ND03-5672	Barnes x SD96-33

Identification of Parent Strains 2014

Strain	Parentage
ND03-6793	ND96-8929 x AC Orford
ND03-7566	Barnes x MN9002CN
ND04-11111	
ND04-11329	(SD96-702 x Loda) x MN0902CN
ND04-11603	
ND04-12603	IAR2101SCN
ND04-12689	Sargent x MN0902CN
ND04-13371	
ND88-800	Evans x Maple Amber
ND95-952	ND88-800 x Pioneer 9061
ND95-958	ND88-800 x Pioneer 9061
ND96-1006	Glacier x Council
ND96-8929	ND88-800 x Council
ND99-2614	
NE1900	MSBP1
Northrup King S19-90	Pride B152 x Pella
Northrup King S23-12	Northrup King S1346 x Asgrow A2575
NuTech83Y36-A	
NuTech83Y36-C	
OAC 00-17	
OAC 05-17	A92-525014 x OAC Vision
OAC 05-21	OT99-2 x OAC00-17
OAC01-26	
OAC05-02	
OAC05-17	
OAC05-21	
OAC05-30	
OAC Glencoe	
OAC Huron	
OAC Lakeview	
OAC Prodigy	
OAC Wallace	
OHS303	
OHS305	
OT92-8	Baron x Maple Donovan
OT99-2	[(AC Bravor x RAGT86A579) x Ac Harmony]
PI200538	
PI398697	
PI424169A	
PI437471	
PI522189	

Identification of Parent Strains 2014

Strain	Parentage
PI532465	
PI538400	
PI548325	
PI567537	
PI567543C)	
PI603290	
PI603432B	
PI603712	
Pioneer P2981	Hark x (Corsoy x Calland)
Pioneer P5096-03D	[PI80471 x PI86050] x [Wms 79 (2) x A3127]
Pioneer P9004	M83-442 x McCall
Pioneer P9273	Pioneer 2981 x Asgrow A3127
Pioneer P9303	Pioneer Brand 2981 x M0385
Pioneer P9321	MO30421 x (Weber x Asgrow A3127)
Pioneer9071	
PioneerP9381	
PioneerYB33A99	
PionerXB15H	
R00-1194F	Asgrow A4715 x DP3478
R01-52F	
R02-6268F	
RG200RR	
S03-W4	
S04-20912RR	
S04-8882	S99-2281 x LG97-7012
S05-11482	
S06-10572RR	
S07-5049	
S07-5117	
S08-095	
S08-096	
S08-115	
S09-309F1	
S09-312F1	
S09-320F1	
Sargent	
SD00-1501	Surge x C1907
SD02-833	Surge x Pioneer P9151
SD02-906	
SD03-2327	
SD1091(RR)	

Identification of Parent Strains 2014

Strain	Parentage
SD98-74-16-1	SD92-1272M x PI 438.025
SDX00R-026-42	SD1081RR X IA1008 SDX02FA-3A-10
SDX98-76192	Pioneer P9071 x C1944
SeCan05-33	
Sheyenne	Pioneer 9071 x A96-492041
Skylla	
SL91-1574M	L15 x Glenwood
Syngenta MT913155	Holt x Dairyland DSR 304
Syngenta03JR101016	
Syngenta03JR101916	
Syngenta03JR313108	
Syngenta03JR321086	
Syngenta03JR321088	
Syngenta03RM893031	
Syngenta04KL015644	
Syngenta04KL108370	
Syngenta05JR200591	
Syngenta05RM926125	
Syngenta05RM926756	
Syngenta06NB199520	
Syngneta03JR101916	
ThompsonSeedsT0499	
TN91-55	TB4-86 x TN83-67
U00-409006	
U01-190311	NE1900 x A97-871009
U01-390489	IA1008 x NE3001
U02-242055	NE1900 x Pioneer 93B82
U03-100612	U99-009019 x P92B12
U03-200317	U99-009019 x P92B12
U03-300134	NE3202 x NE2802
U05-226055	
U06-102133	
U06-102352	
U06-206737	
U06-300952	U98-307917 x U01-310156 U07-135377R
U07-135377R	
U07-135478R	
U07-135601R	
U07-237991R	
U07-336229	
U07-338254R	

Identification of Parent Strains 2014

Strain	Parentage
U08-932024R	
U97-207134	A94-77014 x Bell
U98-205355	A94-773014 x Bell
U98-311442	A94-773014 x Bell
Walsh (RR)	ND88-800 x Council
XP1928	(Hardin x Williams 82) x [(Tracy x Williams) x HW79149] x Asgrow A3127

2014 Disease, Shattering, and Descriptive Data

	Location	Test Conducted By:	Test	UT	PT	UTRR
IL	Urbana	T. Cary	SCN HG Types Score	00-IV	0-IV	0-IV
IN	Lafayette	T. Fleury	PR Evaluations	00-IV	0-IV	0-IV
		D. Schlueter	Descriptive Code	00-IV	0-IV	0-IV
KS	Manhattan	W. Schapaugh Jr.	Shattering Score	III-IV	III-IV	
MN	Danvers	J. H. Orf	Fe Chlorosis	00-0, II	0-I	0-II
OH	South Charelston	L. McHale	Green Stem	III	III	
QUE	St. Hyancinthe	L. Donoughue	Green Stem		I	
	St. Mathieu	L. Donoughue	Green Stem	00-0	0	
TN	Jackson	P. Arelli / L. Fritz	Green Stem	IV	IV	

Uniform and Preliminary Test Location, 2014

Location		Tests Conducted	Uniform Tests						Preliminary Tests					Uniform Test RR				
		By:	00	0	I	II	III	IV	0	I	II	III	IV	0	I	II	III	IV
IA	Ames	W. Fehr			**X**	**X**	**X**											
	Kanawha	S. Cianzio			X					X								
	Ames	S. Cianzio				X					X							
	Crawfordsville	S. Cianzio					X					X						
IL	Carbondale	S. Kantartzi											X					
	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**	**X**
	Brownstown	B. Diers/T. Cary						**X**										**X**
IN	Lafayette	S. Scofield			**X**	**X**	**X**	**X**		**X**	**X**	**X**	**X**		**X**	**X**	**X**	**X**
	Wanatah	S. Scofield			X	X	X											
	Sepac	S. Scofield					X	X					X				X	X
KS	Manhattan	W. Schapaugh Jr.					X	**X**				X	**X**					
	Ottawa	W. Schapaugh Jr.					X	X				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**															
	Waseca	J. Orf													X*	X*		
	Stewart	J. Orf				X												
	Westbrook	J. Orf														**X**		
MO	Portageville (Clay)	G. Shannon					**X**	X					**X**				**X**	**X**
	Portageville (Loam)	G. Shannon					X	X									X	X
	Novelty	A. Scaboo					**X**	**X**				**X**	**X**				**X**	**X**
NE	Hooper	G. Graef / L.Korte			X	X				X	X				X	X		
	Cotesfield	G. Graef / L.Korte			X	X				X	X					X		
	Lincoln	G. Graef / L.Korte					X					X					X	
	Phillips	G. Graef / L.Korte			X	X				X	X				X	X		
	Wymore	G. Graef / L.Korte					X					X					X	
ND	Casselton	T. Helms	**X**	**X**					**X**					**X**				
	Northwood	T. Helms	X											X				
OH	Hoytville	L.Mchale/McIntyre				**X**	**X**				**X**	**X**						
	Wooster	L.Mchale/McIntyre				**X**					**X**							
	St. Charleston	L. Mchale					**X**					**X**						

Uniform and Preliminary Test Location, 2014

ONT	Chatham	M. Eskandari/D. Fischer				**X**					**X**							
	Elora	I. Rajcan	**X**															
	Ottawa	E. Cober	**X**	**X**														
	Ridgetown	M. Eskandari/D. Fischer			**X**					**X**								
	St. Pauls	I. Rajcan		**X**					X									
	Woodstock	I. Rajcan		**X**					X									
QUE	St. Mathieu de-Beloeil	L. O'Donoughue	**X**	**X**					X									
	St. Hyacinthe	J. Auclair			**X**					**X**				**X**	**X**			
	La Pocatiere	J. Aulcair	**X**															
TN	Jackson	P. Arelli						**X**					**X**					
X	Location With Agronomic Data		9	7	12	15	16	10	6	10	10	10	9	5	8	10	8	7
X	Location With Seed Composition Data		7	7	6	10	9	6	6	6	7	6	6	4	5	6	5	6

*No yield data due to hail damage

Uniform Test 00, 2014

Ent.	Strain	Parentage	Seed Source	Previous Testing	Gen. Comp.	Unique Traits
1.	MN0071 (00)	Harmony x OT92-8	Orf	14	F5	Rps1
2.	Cavalier	Sargent x ND96-1006	Helms	9	F4	Rps6
3.	MN0095 (0)	M92-270029 x M93-313185	Orf	6	F5	Rps1
4.	M04-242040	PI603432B x PI603712	Orf	new	F5	DIVERSITY
5.	M06-338016	ND02-971 x MN0071	Orf	2	F5	OIL
6.	M07-260009	NE1900 x MN0107	Orf	1	F5	
7.	M07-340035	M99-274166 x MN0091	Orf	13 UT0	F5	SSR
8.	M08-212028	MN0304 x PI437471	Orf	new	F5	DIVERSITY
9.	M08-271196	M03-276016 x IA2064	Orf	new	F5	
10.	M08-271308	M03-276016 x IA2064	Orf	new	F5	
11.	M08-271313	M03-276016 x IA2064	Orf	new	F5	
12.	M08-271319	M03-276016 x IA2064	Orf	new	F5	
13.	M08-359053	M02-391112 x MN1701CN	Orf	new	F5	SCN
14.	ND09-5604	ND03-5672 x Hamlin	Helms	1	F4	Rps6, 9% hard seed
15.	ND10-2993	ND04-11329 x ND03-7566	Helms	1	F4	SCN, 3% hard seed
16.	ND10-4423	ND03-7566 x [ND03-5441 x LaMoure(2)]	Helms	1	F4	Rps1c, 1% hard seed
17.	ND10-4839	ND03-5441 x ND03-6793	Helms	1	F4	Rps6
18.	ND10-4865	ND04-12603 x ND03-5037	Helms	1.0	F4	Rps6, 6% hard seed
19.	ND11-16570	Ashtabula x Sheyenne	Helms	new	F4	
20.	ND11-16587	Ashtabula x Sheyenne	Helms	new	F4	
21.	ND11-16588	Ashtabula x Sheyenne	Helms	new	F4	
22.	ND11-16827	ND04-13371 x Sheyenne	Helms	new	F4	
23.	ND11-16843	ND04-13371 x Sheyenne	Helms	new	F4	
24.	ND11-19225	Ashtabula x Sheyenne	Helms	new	F4	
25.	ND11-19314	Ashtabula x Cavalier	Helms	new	F4	
26.	ND11-19322	Ashtabula x Cavalier	Helms	new	F4	
27.	ND11-19513	Sheyenne x ND04-12689	Helms	new	F4	
28.	ND11-19539	Sheyenne x ND04-11111	Helms	new	F4	
29.	ND11-19725	ND03-7566 x [ND03-5441 x Pioneer XB15H(STS)]	Helms	new	F4	
30.	OAC 11-13C	OAC Prodigy x S03-W4	Rajcan	1.0	F5	
31.	OAC 13-05C	OAC Lakeview x OAC Wallace	Rajcan	new	F5	
32.	OAC 13-06C	OAC Lakeview x OAC Wallace	Rajcan	new	F5	

Descriptive and Disease Data

Strain	Descriptive Code	FE Chlorosis Score Minnesota	Green Stem Score St. Mathieu de-Beloeil QUE
MN0071 (00)	PTBDYBrI	2.3	2.0
Cavalier	P+WTBDYYI	2.7	2.0
MN0095 (0)	PGBDYIbLI	2.6	2.0
M04-242040	PGBDYYI	2.7	1.0
M06-338016	PGBDYBf+YI	2.1	1.5
M07-260009	P+WGTDYYI	2.4	1.0
M07-340035	PGBDYYI	2.7	1.0
M08-212028	PTTDYYI	2.8	2.5
M08-271196	PTBDYGI	2.3	3.5
M08-271308	PTBDYBlI	2.1	4.0
M08-271313	PTBDYBlI	2.3	4.5
M08-271319	PTBDYBlI	2.3	3.0
M08-359053	PTBDYBlI	2.5	1.5
ND09-5604	PTBDYBlI	2.7	1.5
ND10-2993	WGTDYLbfI	2.7	3.5
ND10-4423	PTTDYBrI	2.4	2.5
ND10-4839	PGBDYBfI	2.8	1.5
ND10-4865	PTBDYLbfI	2.9	2.0
ND11-16570	PGBDYBfI	3.7	1.0
ND11-16587	PGBDYBfI	2.8	1.5
ND11-16588	PGBDYBfI	3.1	1.0
ND11-16827	PGBDYBfI	2.8	1.0
ND11-16843	PGBDYBfI	2.8	1.5
ND11-19225	PGBDYYI	2.3	2.0
ND11-19314	PTBDYYI	2.1	4.0
ND11-19322	PTBDYY+GI	2.4	5.0
ND11-19513	PGBDYYI	2.2	3.5
ND11-19539	WTTDYY+GI	2.2	4.0
ND11-19725	PTTDYBlI	2.4	1.5
OAC 11-13C	PTBIYYI	3.1	3.0
OAC 13-05C	PTBDYYI	2.3	3.0
OAC 13-06C	PTBDYYI	2.3	4.0

Regional Summary

	Yield	Rank	Maturity	Lodging	Plant Height	Seed Quality	Seed Size	Composition	
								Protein	Oil
No. of Tests	8	8	9	6	8	7	8	7	7
Strain	bu/a	No.	Date	Score	In	Score	g/100	%	%
MN0071 (00)	46.5	31	9/13	1.0	24.0	1.6	16.0	33.7	19.1
Cavalier	49.6	29	3.0	1.0	24.2	2.3	18.0	34.3	18.2
MN0095 (0)	53.4	21	5.6	1.1	23.0	1.8	13.5	34.2	18.6
M04-242040	46.1	32	2.6	1.8	22.8	2.1	16.4	35.3	17.8
M06-338016	55.6	12	9.4	1.4	28.9	2.1	15.6	33.2	18.7
M07-260009	54.5	16	7.4	1.4	27.6	1.7	15.5	34.6	18.1
M07-340035	49.0	30	8.6	1.3	23.9	1.8	18.1	35.1	17.7
M08-212028	52.5	26	12.0	1.4	26.7	1.9	17.5	35.1	18.7
M08-271196	53.7	20	8.0	1.2	24.7	2.1	17.2	33.3	19.0
M08-271308	51.8	27	6.2	1.0	23.4	2.1	17.2	33.2	19.2
M08-271313	54.0	19	6.0	1.1	23.5	2.3	17.1	33.0	19.5
M08-271319	51.4	28	6.6	1.1	23.4	2.0	17.4	32.8	19.5
M08-359053	56.7	6	10.0	1.8	28.2	2.8	15.9	34.5	18.3
ND09-5604	53.0	23	3.8	1.3	22.9	1.6	16.2	34.1	18.9
ND10-2993	52.7	25	9.2	1.2	25.2	1.7	13.8	33.6	18.0
ND10-4423	58.5	3	7.4	1.2	26.7	2.0	15.0	33.9	18.1
ND10-4839	54.1	18	6.2	1.1	24.2	1.4	15.9	33.9	18.8
ND10-4865	60.0	1	13.6	1.2	26.5	1.5	17.5	34.9	18.0
ND11-16570	56.8	5	7.2	1.2	26.1	1.7	16.5	33.5	19.3
ND11-16587	56.6	7	8.2	1.3	24.8	1.9	16.5	33.5	19.4
ND11-16588	56.2	9	6.4	1.1	25.6	1.8	16.5	33.2	19.4
ND11-16827	55.6	11	7.2	1.1	26.3	2.1	16.2	33.3	19.4
ND11-16843	56.8	4	7.4	1.2	26.9	2.1	16.4	33.3	19.3
ND11-19225	52.9	24	4.6	1.3	24.9	2.2	16.1	33.2	18.9
ND11-19314	54.3	17	4.8	1.1	25.3	2.2	18.1	34.3	18.6
ND11-19322	53.1	22	2.8	1.0	25.4	2.2	17.6	34.8	18.3
ND11-19513	54.7	15	7.6	1.1	25.6	2.1	16.0	33.7	18.1
ND11-19539	56.5	8	4.4	1.0	23.4	2.3	16.2	34.5	18.3
ND11-19725	56.1	10	7.0	1.5	29.0	1.7	15.9	34.0	18.5
OAC 11-13C	55.5	13	10.8	1.4	28.8	1.5	16.7	35.2	17.9
OAC 13-05C	59.5	2	5.2	1.1	24.7	2.0	18.6	34.4	18.1
OAC 13-06C	55.5	14	5.0	1.1	24.1	2.5	18.9	35.0	18.5

108.6 Days after Planting

Uniform Test 00, 2014

2013-2014 2-Year Mean

	Yield	Rank	Maturity	Lodging	Plant Height	Seed Quality	Seed Size	Composition	
								Protein	Oil
No. of Tests	18	18	18	14	15	14	16	14	14
Strain	bu/a	No.	Date	Score	In	Score	g/100	%	%
MN0071 (00)	45.3	11	9/12	1.1	24.5	1.7	15.5	33.9	19.1
Cavalier	47.0	10	2.4	1.1	24.4	2.0	17.4	34.6	18.1
MN0095 (0)	51.4	6	5.5	1.1	24.3	1.6	13.3	34.4	18.6
M06-338016	53.8	3	7.5	1.4	29.0	2.3	15.4	33.4	18.8
M07-260009	53.4	4	6.6	1.3	28.8	1.7	15.5	34.8	18.0
ND09-5604	52.4	5	4.0	1.3	23.7	1.6	16.0	34.4	18.8
ND10-2993	47.2	9	7.0	1.2	25.0	1.4	13.2	33.8	18.5
ND10-4423	51.3	7	4.6	1.2	26.3	1.8	14.9	34.5	18.5
ND10-4839	48.6	8	5.5	1.1	24.5	1.6	14.8	33.4	19.2
ND10-4865	55.1	1	10.3	1.2	26.6	1.6	16.8	34.7	18.6
OAC 11-13C	54.5	2	9.8	1.3	29.4	1.5	16.6	35.0	18.3

107.8 Days After Planting

Uniform Test 00, 2014

Yield (bu/a)

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)	46.5	42.9	30.1	19.0	36.6	40.6	40.0	44.3	68.8	68.9
Cavalier	49.6	46.1	26.8	25.7	41.6	45.8	37.3	46.9	72.7	79.8
MN0095 (0)	53.4	55.4	29.8	18.7	47.1	50.0	37.9	53.4	66.3	87.1
M04-242040	46.1	48.1	29.9	19.3	43.4	44.2	25.8	43.8	60.6	72.8
M06-338016	55.6	48.3	40.4	25.5	50.9	47.0	42.6	54.0	78.7	82.9
M07-260009	54.5	51.2	36.9	18.3	46.4	48.1	36.8	55.5	74.1	86.8
M07-340035	49.0	45.1	30.0	21.2	44.3	41.2	34.6	43.5	71.9	81.3
M08-212028	52.5	52.4	39.3	23.1	45.6	42.4	40.4	53.2	69.2	77.1
M08-271196	53.7	53.9	37.0	22.4	39.7	43.3	43.4	55.7	77.0	79.2
M08-271308	51.8	46.7	32.1	18.7	38.0	47.3	42.0	55.1	76.4	76.5
M08-271313	54.0	53.7	35.3	25.7	38.6	45.7	43.2	55.5	80.1	79.9
M08-271319	51.4	45.2	35.1	22.5	34.3	44.5	42.9	57.0	78.3	73.5
M08-359053	56.7	57.5	40.0	26.0	50.1	49.4	42.6	54.9	73.9	85.2
ND09-5604	53.0	55.9	27.4	25.4	45.1	44.3	34.6	46.8	77.5	92.7
ND10-2993	52.7	57.6	29.1	18.3	50.1	56.0	33.1	50.1	68.8	76.5
ND10-4423	58.5	60.9	37.7	25.9	42.2	45.9	46.1	60.1	77.4	97.9
ND10-4839	54.1	50.3	29.0	24.6	47.7	44.5	39.8	55.0	74.5	91.8
ND10-4865	60.0	54.4	40.8	25.1	52.0	37.4	49.8	63.8	84.1	97.7
ND11-16570	56.8	52.1	32.4	26.9	55.0	47.3	36.5	54.1	78.3	98.6
ND11-16587	56.6	52.2	30.1	20.4	52.5	47.7	39.8	56.4	80.3	94.1
ND11-16588	56.2	54.5	36.9	22.9	48.3	47.9	39.7	54.8	76.2	91.2
ND11-16827	55.6	52.4	29.7	18.8	47.5	51.0	38.4	52.3	78.5	95.3
ND11-16843	56.8	57.0	30.2	26.5	47.5	50.5	39.6	57.3	78.4	94.0
ND11-19225	52.9	45.6	31.0	18.6	46.9	45.4	39.2	51.8	74.8	88.4
ND11-19314	54.3	48.0	35.2	21.0	44.1	49.1	41.3	54.7	75.8	85.8
ND11-19322	53.1	46.3	32.9	26.1	46.6	43.3	43.4	53.1	79.3	80.1
ND11-19513	54.7	54.1	30.8	24.4	43.8	44.5	40.9	61.2	72.0	90.0
ND11-19539	56.5	56.5	35.8	20.3	47.9	49.3	39.1	57.8	78.8	86.5
ND11-19725	56.1	56.6	38.8	24.9	49.6	47.9	33.2	53.3	81.1	87.9
OAC 11-13C	55.5	52.3	36.7	26.9	45.7	50.1	46.0	55.6	72.6	85.3
OAC 13-05C	59.5	52.8	34.0	26.2	47.5	55.5	44.8	57.9	87.0	96.7
OAC 13-06C	55.5	50.8	35.6	26.3	46.3	43.7	45.7	56.6	82.5	82.9
Location Mean		51.8	33.7	23.0	45.7	46.6	40.0	53.9	75.8	85.8
C.V. (%)		11.1	12.7	19.3	11.2	10.1	6.7	6.0	4.7	4.4
L.S.D. (5%)		9.4	7.0	7.3	8.2	7.6	4.4	8.1	7.3	7.9
Row Sp (In.)		12	10	10	30	30	14	15.7	7	7
Rows/Plot		8	8	8	4	4	4	4	8	5
Reps		3	3	3	3	3	3	3	3	2

*Data not included in the mean

Yield Rank

Strain	Yield Rank 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)	31	32	23	26	31	31	16	30	30	32
Cavalier	29	28	32	9	27	18	25	28	24	25
MN0095 (0)	21	8	27	28	14	6	24	21	31	14
M04-242040	32	24	26	25	25	25	32	31	32	31
M06-338016	12	23	2	11	4	16	10	20	9	20
M07-260009	16	20	8	31	16	10	26	12	22	15
M07-340035	30	31	25	21	22	30	28	32	27	22
M08-212028	26	15	4	17	20	29	15	23	28	27
M08-271196	20	12	7	20	28	27	6	10	16	26
M08-271308	27	26	19	28	30	15	12	14	17	28
M08-271313	19	13	13	9	29	18	8	13	6	24
M08-271319	28	30	15	19	32	21	9	7	12	30
M08-359053	6	3	3	7	5	7	10	16	23	19
ND09-5604	23	7	31	12	21	24	28	29	14	8
ND10-2993	25	2	29	31	5	1	31	27	29	29
ND10-4423	3	1	6	8	26	17	2	3	15	2
ND10-4839	18	22	30	15	9	21	17	15	21	9
ND10-4865	1	10	1	13	3	32	1	1	2	3
ND11-16570	5	19	18	1	1	14	27	19	13	1
ND11-16587	7	18	23	23	2	13	17	9	5	6
ND11-16588	9	9	9	18	8	11	19	17	18	10
ND11-16827	11	15	28	27	11	3	23	25	10	5
ND11-16843	4	4	22	3	11	4	20	6	11	7
ND11-19225	24	29	20	30	15	20	21	26	20	12
ND11-19314	17	25	14	22	23	9	13	18	19	17
ND11-19322	22	27	17	6	16	27	6	24	7	23
ND11-19513	15	11	21	16	24	21	14	2	26	11
ND11-19539	8	6	11	24	9	8	22	5	8	16
ND11-19725	10	5	5	14	7	11	30	22	4	13
OAC 11-13C	13	17	10	1	19	5	3	11	25	18
OAC 13-05C	2	14	16	5	11	2	5	4	1	4
OAC 13-06C	14	21	12	4	18	26	4	8	3	21

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)	9/13	9/15	9/20	9/21	9/9	9/13	9/24	9/3	9/20	9/01
Cavalier	3.0	6.0	2.0	1.0	3.0	12.0	2.0	4.0	-6.0	3.0
MN0095 (0)	5.6	6.0	3.0	3.0	2.0	14.0	4.0	8.0	0.0	9.0
M04-242040	2.6	8.0	5.0	4.0	1.0	7.0	1.0	4.0	0.0	6.0
M06-338016	9.4	7.0	4.0	5.0	7.0	13.0	7.0	10.0	10.0	7.0
M07-260009	7.4	7.0	5.0	5.0	5.0	17.0	4.0	10.0	1.0	8.0
M07-340035	8.6	13.0	7.0	7.0	6.0	19.0	6.0	11.0	1.0	5.0
M08-212028	12.0	-11.0	6.0	7.0	9.0	19.0	14.0	14.0	4.0	6.0
M08-271196	8.0	10.0	6.0	5.0	7.0	13.0	7.0	10.0	3.0	6.0
M08-271308	6.2	8.0	5.0	5.0	5.0	11.0	7.0	8.0	0.0	6.0
M08-271313	6.0	7.0	5.0	2.0	3.0	13.0	7.0	7.0	0.0	4.0
M08-271319	6.6	7.0	5.0	3.0	2.0	12.0	9.0	10.0	0.0	5.0
M08-359053	10.0	13.0	6.0	6.0	7.0	16.0	8.0	12.0	7.0	7.0
ND09-5604	3.8	8.0	5.0	6.0	4.0	8.0	3.0	6.0	-2.0	10.0
ND10-2993	9.2	8.0	3.0	4.0	13.0	22.0	6.0	7.0	-2.0	2.0
ND10-4423	7.4	10.0	8.0	8.0	1.0	9.0	6.0	15.0	6.0	14.0
ND10-4839	6.2	10.0	4.0	4.0	6.0	12.0	6.0	7.0	0.0	8.0
ND10-4865	13.6	19.0	11.0	13.0	8.0	15.0	18.0	20.0	7.0	13.0
ND11-16570	7.2	10.0	4.0	6.0	11.0	12.0	6.0	7.0	0.0	8.0
ND11-16587	8.2	11.0	5.0	6.0	11.0	15.0	5.0	10.0	0.0	9.0
ND11-16588	6.4	9.0	5.0	5.0	8.0	9.0	7.0	8.0	0.0	8.0
ND11-16827	7.2	9.0	4.0	6.0	7.0	14.0	7.0	8.0	0.0	8.0
ND11-16843	7.4	9.0	6.0	6.0	9.0	14.0	6.0	8.0	0.0	9.0
ND11-19225	4.6	8.0	4.0	3.0	8.0	11.0	0.0	6.0	-2.0	7.0
ND11-19314	4.8	7.0	5.0	4.0	3.0	13.0	3.0	4.0	1.0	3.0
ND11-19322	2.8	8.0	4.0	3.0	4.0	12.0	0.0	5.0	-7.0	3.0
ND11-19513	7.6	10.0	6.0	6.0	7.0	17.0	7.0	11.0	-4.0	8.0
ND11-19539	4.4	7.0	3.0	2.0	3.0	10.0	-1.0	7.0	3.0	5.0
ND11-19725	7.0	8.0	4.0	4.0	4.0	15.0	6.0	10.0	0.0	5.0
OAC 11-13C	10.8	12.0	10.0	8.0	14.0	20.0	7.0	13.0	0.0	9.0
OAC 13-05C	5.2	9.0	8.0	7.0	7.0	14.0	1.0	7.0	-3.0	7.0
OAC 13-06C	5.0	10.0	8.0	6.0	6.0	13.0	5.0	6.0	-5.0	6.0
Date Planted	5/28	5/27	6/3	6/4	5/22	5/29	5/31	5/21	6/4	5/22
Days To Mature	108.6	111.0	109.0	109.0	110.0	107.0	116.0	105.0	108.0	102.0

Lodging (Score)

Strain	Mean 6 Tests	Casselton ND	Northwood ND	Elora ONT	Ottawa ONT	La Pocatiere QUE	St. Mathieu de-Beloeil QUE
MN0071 (00)	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Cavalier	1.0	1.0	1.0	1.0	1.0	1.0	1.0
MN0095 (0)	1.1	1.0	1.0	1.0	1.0	1.3	1.0
M04-242040	1.8	1.0	1.0	1.1	2.7	4.0	1.0
M06-338016	1.4	1.0	1.0	1.1	2.0	2.0	1.0
M07-260009	1.4	1.0	1.0	1.1	1.7	2.3	1.0
M07-340035	1.3	1.0	1.0	1.0	2.0	1.7	1.0
M08-212028	1.4	1.0	1.0	1.3	2.7	1.3	1.0
M08-271196	1.2	1.0	1.0	1.0	2.0	1.0	1.0
M08-271308	1.0	1.0	1.0	1.0	1.0	1.0	1.0
M08-271313	1.1	1.0	1.0	1.1	1.7	1.0	1.0
M08-271319	1.1	1.0	1.0	1.0	1.3	1.0	1.0
M08-359053	1.8	1.0	1.0	1.4	2.3	4.0	1.0
ND09-5604	1.3	1.0	1.0	1.0	1.0	3.0	1.0
ND10-2993	1.2	1.0	1.0	1.0	1.7	1.3	1.0
ND10-4423	1.2	1.0	1.0	1.0	1.3	1.7	1.0
ND10-4839	1.1	1.0	1.0	1.0	1.7	1.0	1.0
ND10-4865	1.2	1.0	1.0	1.3	1.7	1.0	1.0
ND11-16570	1.2	1.0	1.0	1.0	2.0	1.0	1.0
ND11-16587	1.3	1.0	1.0	1.0	2.3	1.3	1.0
ND11-16588	1.1	1.0	1.0	1.0	1.3	1.0	1.0
ND11-16827	1.1	1.0	1.0	1.1	1.7	1.0	1.0
ND11-16843	1.2	1.0	1.0	1.1	2.3	1.0	1.0
ND11-19225	1.3	1.0	1.0	1.0	1.7	2.3	1.0
ND11-19314	1.1	1.0	1.0	1.0	1.0	1.7	1.0
ND11-19322	1.0	1.0	1.0	1.0	1.0	1.0	1.0
ND11-19513	1.1	1.0	1.0	1.0	1.3	1.0	1.0
ND11-19539	1.0	1.0	1.0	1.0	1.0	1.0	1.0
ND11-19725	1.5	1.0	1.0	1.0	3.7	1.0	1.0
OAC 11-13C	1.4	1.0	1.0	1.2	2.7	1.3	1.0
OAC 13-05C	1.1	1.0	1.0	1.0	1.7	1.0	1.0
OAC 13-06C	1.1	1.0	1.0	1.0	1.3	1.0	1.0

Plant Height (inches)

Strain	Mean 8 Tests	Crookston MN	Moorhead MN	Shelly MN	Casselton ND	Elora ONT	Ottawa ONT	La Pocatiere QUE	St. Mathieu de-Beloeil QUE
MN0071 (00)	24.0	20.0	18.0	14.0	21.0	35.0	34.0	30.0	20.0
Cavalier	24.2	21.0	18.0	15.0	22.0	36.0	31.0	29.5	21.0
MN0095 (0)	23.0	19.0	15.0	11.0	24.0	30.0	34.0	29.9	21.0
M04-242040	22.8	18.0	19.0	12.0	20.0	30.0	30.0	31.6	22.0
M06-338016	28.9	24.0	23.0	15.0	26.0	41.0	40.0	33.9	28.0
M07-260009	27.6	23.0	22.0	15.0	23.0	40.0	38.0	34.7	25.0
M07-340035	23.9	18.0	20.0	14.0	23.0	34.0	30.0	31.0	21.0
M08-212028	26.7	24.0	23.0	17.0	24.0	34.0	34.0	32.2	25.0
M08-271196	24.7	22.0	19.0	13.0	24.0	35.0	34.0	30.4	20.0
M08-271308	23.4	20.0	18.0	14.0	20.0	33.0	33.0	30.1	19.0
M08-271313	23.5	22.0	17.0	13.0	20.0	33.0	32.0	30.8	20.0
M08-271319	23.4	21.0	17.0	12.0	20.0	33.0	32.0	31.0	21.0
M08-359053	28.2	26.0	26.0	16.0	25.0	37.0	36.0	34.8	25.0
ND09-5604	22.9	19.0	18.0	15.0	21.0	30.0	30.0	30.8	19.0
ND10-2993	25.2	24.0	21.0	11.0	26.0	30.0	32.0	32.3	25.0
ND10-4423	26.7	26.0	22.0	16.0	23.0	34.0	34.0	33.5	25.0
ND10-4839	24.2	16.0	18.0	14.0	23.0	33.0	34.0	32.2	23.0
ND10-4865	26.5	25.0	23.0	17.0	23.0	34.0	33.0	30.9	26.0
ND11-16570	26.1	22.0	18.0	15.0	26.0	35.0	38.0	32.9	22.0
ND11-16587	24.8	16.0	18.0	13.0	26.0	34.0	36.0	32.7	23.0
ND11-16588	25.6	24.0	19.0	15.0	26.0	33.0	33.0	32.1	23.0
ND11-16827	26.3	23.0	19.0	14.0	26.0	36.0	36.0	34.3	22.0
ND11-16843	26.9	25.0	18.0	15.0	25.0	37.0	37.0	33.3	25.0
ND11-19225	24.9	21.0	19.0	12.0	25.0	32.0	34.0	31.8	24.0
ND11-19314	25.3	21.0	17.0	16.0	21.0	35.0	37.0	34.3	21.0
ND11-19322	25.4	23.0	19.0	15.0	24.0	34.0	36.0	30.2	22.0
ND11-19513	25.6	23.0	21.0	14.0	23.0	34.0	37.0	30.1	23.0
ND11-19539	23.4	22.0	17.0	13.0	21.0	28.0	32.0	32.8	21.0
ND11-19725	29.0	27.0	25.0	18.0	26.0	35.0	44.0	30.1	27.0
OAC 11-13C	28.8	26.0	25.0	18.0	25.0	40.0	37.0	33.5	26.0
OAC 13-05C	24.7	22.0	19.0	17.0	20.0	34.0	33.0	28.6	24.0
OAC 13-06C	24.1	22.0	20.0	16.0	21.0	33.0	32.0	29.1	20.0

Seed Quality (Score)

Strain	Mean 7 Tests	Crookston MN	Moorhea MN	Shelly MN	Casselton ND	Elora ONT	Ottawa ONT	St. Mathieu de-Beloeil QUE
MN0071 (00)	1.6	1.0	2.0	3.0	1.0	1.5	1.0	2.0
Cavalier	2.3	1.0	4.0	4.0	1.0	1.5	1.7	3.1
MN0095 (0)	1.8	1.0	2.0	4.0	1.0	1.5	1.0	2.0
M04-242040	2.1	2.0	2.0	4.0	1.0	1.5	2.0	2.1
M06-338016	2.1	2.0	3.0	3.0	1.0	1.5	2.0	2.5
M07-260009	1.7	1.0	2.0	4.0	1.0	1.5	1.0	1.6
M07-340035	1.8	2.0	3.0	2.0	1.0	1.5	1.7	1.2
M08-212028	1.9	3.0	1.0	3.0	1.0	1.5	2.0	2.0
M08-271196	2.1	2.0	4.0	3.0	1.0	1.5	1.7	1.7
M08-271308	2.1	1.0	5.0	4.0	1.0	1.5	1.3	1.0
M08-271313	2.3	3.0	3.0	3.0	1.0	1.5	2.0	2.7
M08-271319	2.0	1.0	4.0	3.0	1.0	1.5	2.0	1.2
M08-359053	2.8	4.0	4.0	4.0	1.0	2.0	2.0	2.4
ND09-5604	1.6	2.0	2.0	2.0	1.0	1.5	1.3	1.2
ND10-2993	1.7	1.0	2.0	2.0	1.0	1.5	2.0	2.1
ND10-4423	2.0	1.0	3.0	3.0	1.0	1.5	2.0	2.3
ND10-4839	1.4	2.0	1.0	2.0	1.0	1.5	1.3	1.1
ND10-4865	1.5	2.0	1.0	1.0	1.0	1.5	2.0	2.0
ND11-16570	1.7	1.0	2.0	2.0	1.0	1.5	2.0	2.1
ND11-16587	1.9	2.0	2.0	3.0	1.0	1.5	2.0	2.1
ND11-16588	1.8	1.0	2.0	3.0	1.0	1.5	2.0	2.0
ND11-16827	2.1	1.0	3.0	3.0	1.0	1.5	2.0	3.0
ND11-16843	2.1	1.0	3.0	4.0	1.0	1.5	2.0	2.0
ND11-19225	2.2	3.0	3.0	3.0	1.0	1.5	2.0	2.0
ND11-19314	2.2	2.0	4.0	4.0	1.0	1.5	1.7	1.5
ND11-19322	2.2	2.0	3.0	3.0	1.0	2.0	2.0	2.6
ND11-19513	2.1	2.0	2.0	2.0	1.0	3.0	2.0	2.9
ND11-19539	2.3	1.0	4.0	4.0	1.0	2.0	2.3	1.9
ND11-19725	1.7	1.0	2.0	2.0	1.0	1.5	2.0	2.2
OAC 11-13C	1.5	1.0	1.0	2.0	1.0	1.5	2.0	1.9
OAC 13-05C	2.0	2.0	3.0	3.0	1.0	1.5	1.0	2.3
OAC 13-06C	2.5	3.0	4.0	3.0	1.0	1.5	2.0	2.8

Seed Size (g/100)

Strain	Mean 8 Tests	Crookston MN	Moorhea MN	Shelly MN	Casselton ND	Elora ONT	Ottawa ONT	La Pocatiere QUE	St. Mathieu de-Beloeil QUE
MN0071 (00)	16.0	14.2	12.9	14.6	16.5	16.8	17.6	15.6	19.9
Cavalier	18.0	15.5	15.5	13.9	17.3	21.9	20.0	17.9	22.0
MN0095 (0)	13.5	11.5	13.1	12.5	13.0	13.7	15.4	12.5	16.2
M04-242040	16.4	13.8	15.2	14.1	16.8	16.1	18.6	16.0	20.3
M06-338016	15.6	14.8	14.4	13.2	14.9	15.8	18.6	15.3	18.1
M07-260009	15.5	13.9	15.0	13.4	15.9	14.7	19.1	14.3	17.9
M07-340035	18.1	16.5	16.5	14.2	17.9	18.8	21.4	18.3	21.1
M08-212028	17.5	14.8	14.9	14.0	16.8	20.2	22.0	17.0	20.0
M08-271196	17.2	15.4	15.7	13.5	16.4	17.6	19.9	17.1	21.9
M08-271308	17.2	15.6	15.2	13.6	17.9	17.1	20.1	16.8	21.6
M08-271313	17.1	15.3	16.2	13.9	16.8	16.3	19.7	17.2	21.5
M08-271319	17.4	15.8	15.3	15.3	16.8	16.7	20.4	17.3	21.2
M08-359053	15.9	13.6	14.1	13.1	15.4	16.2	19.6	15.9	19.6
ND09-5604	16.2	14.6	14.5	13.6	16.9	16.5	18.4	15.1	20.2
ND10-2993	13.8	11.0	12.0	11.9	13.9	16.6	15.9	11.9	16.8
ND10-4423	15.0	13.6	13.3	13.7	15.7	13.5	17.9	14.0	18.4
ND10-4839	15.9	14.9	14.3	13.6	14.2	16.2	19.6	14.9	19.5
ND10-4865	17.5	14.8	15.3	14.4	16.1	18.6	22.1	17.2	21.2
ND11-16570	16.5	14.1	14.6	14.3	16.5	17.9	18.6	14.9	21.2
ND11-16587	16.5	14.9	15.2	14.5	17.3	16.4	18.9	14.7	20.3
ND11-16588	16.5	14.0	14.7	13.9	17.2	17.5	19.3	14.9	20.4
ND11-16827	16.2	13.5	14.7	14.3	15.9	16.8	18.5	15.2	20.5
ND11-16843	16.4	14.6	14.6	13.7	16.7	16.0	19.9	14.8	20.5
ND11-19225	16.1	14.4	14.5	14.3	16.4	16.1	18.0	15.4	19.8
ND11-19314	18.1	15.5	17.0	16.1	17.8	19.9	20.1	15.5	22.6
ND11-19322	17.6	14.6	14.2	14.8	17.3	19.9	20.9	17.1	21.7
ND11-19513	16.0	13.8	13.7	13.3	14.0	17.2	18.6	18.1	19.1
ND11-19539	16.2	14.7	15.2	13.3	15.7	16.1	19.8	14.8	20.1
ND11-19725	15.9	12.5	13.7	13.0	15.6	17.7	20.4	15.7	18.6
OAC 11-13C	16.7	13.8	14.6	14.3	16.2	19.2	20.1	14.4	20.6
OAC 13-05C	18.6	15.6	15.8	16.7	19.4	19.8	21.1	17.6	22.8
OAC 13-06C	18.9	16.2	17.1	15.4	19.2	19.6	23.0	20.4	24.9

Protein (%)

Strain	Mean 7 Tests	Crookston MN	Moorhea MN	Shelly MN	Casselton ND	Elora ONT*	Ottawa ONT*	St. Mathieu de-Beloeil QUE*
MN0071 (00)	33.7	32.7	33.0	34.4	32.9	35.8	33.0	34.191
Cavalier	34.3	32.7	33.6	33.6	33.5	37.0	34.3	35.235
MN0095 (0)	34.2	32.1	34.1	34.0	32.7	37.6	34.3	34.626
M04-242040	35.3	32.9	34.8	33.9	34.1	39.3	35.5	36.366
M06-338016	33.2	31.0	32.5	33.0	32.3	35.9	33.8	33.669
M07-260009	34.6	33.4	34.4	34.7	33.9	37.5	33.8	34.191
M07-340035	35.1	33.8	34.9	34.6	34.3	38.1	34.7	35.148
M08-212028	35.1	33.6	35.2	34.2	33.9	38.5	35.8	34.365
M08-271196	33.3	31.7	32.5	33.8	33.4	34.3	33.7	33.756
M08-271308	33.2	32.4	32.3	33.2	33.0	34.8	33.0	33.495
M08-271313	33.0	32.3	31.7	33.7	31.4	35.3	32.5	33.843
M08-271319	32.8	31.8	31.8	33.6	30.9	35.6	32.9	33.234
M08-359053	34.5	32.8	33.8	33.2	33.7	36.8	36.0	35.409
ND09-5604	34.1	32.8	34.4	34.1	33.9	36.6	32.9	34.191
ND10-2993	33.6	31.7	33.0	32.7	32.1	37.1	34.3	34.365
ND10-4423	33.9	31.2	33.8	34.0	35.1	35.3	33.8	33.843
ND10-4839	33.9	32.6	34.6	33.5	31.5	36.2	34.6	34.278
ND10-4865	34.9	33.2	35.5	34.5	32.3	37.6	36.1	35.322
ND11-16570	33.5	31.6	34.1	34.0	31.7	35.2	33.2	34.452
ND11-16587	33.5	31.4	33.5	33.6	32.2	35.4	33.8	34.278
ND11-16588	33.2	31.6	33.7	33.3	30.8	35.8	32.7	34.365
ND11-16827	33.3	32.1	33.5	33.3	31.9	35.4	33.5	33.756
ND11-16843	33.3	32.2	34.0	33.3	31.4	35.0	33.6	33.756
ND11-19225	33.2	31.4	33.5	33.3	31.9	35.8	33.1	33.408
ND11-19314	34.3	32.7	34.6	33.9	33.0	36.3	34.8	34.974
ND11-19322	34.8	32.9	34.6	33.8	33.9	37.1	35.1	35.931
ND11-19513	33.7	32.1	32.8	32.8	32.8	36.7	34.4	34.365
ND11-19539	34.5	33.1	34.0	34.0	33.2	37.8	34.0	35.061
ND11-19725	34.0	33.0	33.2	32.9	32.8	36.4	35.6	34.365
OAC 11-13C	35.2	32.7	34.4	34.1	34.9	38.4	35.9	36.105
OAC 13-05C	34.4	31.3	34.0	34.2	33.8	37.3	34.6	35.409
OAC 13-06C	35.0	33.3	34.8	34.3	33.6	37.1	35.4	36.801

*Protein and Oil values converted to 13% moisture basis

Oil (%)

Strain	Mean 7 Test	Crookston MN	Moorhead MN	Shelly MN	Casselton ND	Elora ONT*	Ottawa ONT*	St. Mathieu de-Beloeil QUE*
MN0071 (00)	19.1	19.5	19.1	19.2	19.4	18.1	19.7	19.1
Cavalier	18.2	18.2	18.4	19.1	18.4	16.9	18.4	18.1
MN0095 (0)	18.6	19.3	18.5	18.4	19.2	16.7	18.8	19.1
M04-242040	17.8	18.3	17.7	18.5	18.4	15.7	17.6	18.3
M06-338016	18.7	19.3	18.6	19.1	18.9	17.1	18.9	19.4
M07-260009	18.1	18.3	17.6	18.1	18.0	16.5	18.9	19.0
M07-340035	17.7	17.7	17.6	17.9	18.0	16.6	18.2	17.7
M08-212028	18.7	18.8	18.5	19.1	18.8	17.7	19.0	19.4
M08-271196	19.0	19.5	19.1	18.4	18.7	18.8	19.2	19.1
M08-271308	19.2	19.7	19.3	19.2	18.8	18.5	19.7	19.2
M08-271313	19.5	19.9	19.7	19.1	19.9	18.6	19.9	19.1
M08-271319	19.5	20.1	19.6	19.6	20.2	18.3	19.7	19.2
M08-359053	18.3	19.2	18.1	18.5	18.2	17.4	18.1	18.4
ND09-5604	18.9	19.3	18.5	18.4	18.6	18.2	19.7	19.4
ND10-2993	18.0	18.2	17.5	18.5	18.4	16.4	18.3	18.5
ND10-4423	18.1	18.4	17.5	18.2	18.9	16.8	18.6	18.4
ND10-4839	18.8	18.7	18.3	19.0	19.8	17.7	19.1	19.2
ND10-4865	18.0	17.6	17.5	17.9	19.9	16.9	18.3	18.4
ND11-16570	19.3	19.6	18.9	18.7	20.0	18.1	19.8	19.9
ND11-16587	19.4	19.9	19.0	19.3	20.0	18.0	19.6	19.8
ND11-16588	19.4	19.3	18.7	19.2	20.8	17.9	20.2	19.5
ND11-16827	19.4	19.4	19.0	19.2	20.4	18.1	19.7	20.0
ND11-16843	19.3	19.0	18.9	19.1	20.0	18.1	19.8	19.8
ND11-19225	18.9	19.6	18.5	18.7	19.2	17.6	19.6	19.5
ND11-19314	18.6	18.9	18.3	18.7	19.1	17.6	18.6	19.0
ND11-19322	18.3	18.6	18.0	18.6	18.4	17.2	18.5	18.6
ND11-19513	18.1	18.6	17.8	18.5	18.4	16.7	18.3	18.4
ND11-19539	18.3	18.4	18.0	18.3	19.0	17.2	18.8	18.4
ND11-19725	18.5	18.6	18.5	18.6	18.8	17.5	18.4	19.1
OAC 11-13C	17.9	18.3	18.0	18.3	17.8	16.5	18.2	18.4
OAC 13-05C	18.1	18.7	17.9	17.8	18.5	17.2	18.6	17.9
OAC 13-06C	18.5	19.1	18.3	18.5	19.1	17.5	18.9	18.1

*Protein and Oil values converted to 13% moisture basis

Uniform Test 0, 2014

Ent.	Strain	Parentage	Seed Source	Previous Testing	Gen. Comp.	Unique Traits
1.	Sheyenne (0)	Pioneer 9071 x A96-492041	Helms	8.0	F4	Rps1-c
2.	MN1410 (I)	Unknown	Orf	7.0	F5	
3.	Surge (L)	A86-204022 x Kato	Green	15.0	F5	
4.	MN0095 (E)	M92-270029 x M93-313185	Orf	4.0	F5	Rps1
5.	MN0606CN (SCN)	MN0901 x MN0902CN	Orf	6.0	F5	SCN
6.	M06-289001	M00-351195 x M00-365181	Orf	1.0	F5	SCN
7.	M06-380029	Jim x PI548325	Orf	1.0	F5	Diversity
8.	M07-260028	NE1900 x MN0107	Orf	13 UT00	F5	
9.	M07-278126	M00-110002 x Sheyenne	Orf	PT0	F5	
10.	M08-144031	MN0307SP x Hendricks	Orf	PTIA	F5	Slow Wilt
11.	M08-144119	MN0307SP x Hendricks	Orf	PTIA	F5	Slow Wilt
12.	M08-154093	SD02-906 x U03-100612	Orf	PT0	F6	
13.	ND10-3067	Sheyenne x {LaMoure(2)Rag1]	Helms	1.0	F4	
14.	ND10-3318	Sheyenne(2) x {LaMoure(2)Rag1]	Helms	1.0	F4	4% hard seed
15.	ND10-3330	Sheyenne(2) x {LaMoure(2)Rag1]	Helms	1.0	F4	1% hard seed
16.	ND10-3413	ND03-7566 x [ND03-5441 x LaMoure(2)]	Helms	1.0	F4	SCN, 2% hard seed
17.	ND10-3434	ND03-7566 x [ND03-5441 x LaMoure(2)]	Helms	1.0	F4	SCN
18.	ND10-3459	ND03-7566 x [ND03-5441 x LaMoure(2)]	Helms	1.0	F4	SCN, 1% hard seed
19.	ND10-4485	Sheyenne x Ashtabula	Helms	1.0	F4	
20.	ND10-4518	Sheyenne x Ashtabula	Helms	1.0	F4	8% hard seed
21.	OAC 11-25C	OAC Prodigy x OAC Wallace	Rajcan	PT0	F5	
22.	OAC 11-43C	OAC Huron x S03-W4	Rajcan	PT0	F5	

Uniform Test 0, 2014

Descriptive and Disease Data

Strain	Descriptive Code	Chlorosis Score Minnesota	Green Stem Score St. Mathieu, QUE
Sheyenne (0)	PGBIYYI	2.0	1.3
MN1410 (I)	WGBIYBfI	2.7	1.3
Surge (L)	PGBDYIbI	2.9	1.3
MN0095 (E)	PGBDYIbI	1.9	2.0
MN0606CN (SCN)	WTTIYYI	3.1	1.3
M06-289001	WTTIYYI	1.9	1.0
M06-380029	PGBDYBfI	3.2	1.3
M07-260028	W+PGTDYI	2.4	1.0
M07-278126	P+WGBDYYI	2.2	1.0
M08-144031	W+PGBDYY	2.3	1.3
M08-144119	PTBDYYI	2.2	1.3
M08-154093	PTTDYBlI	2.5	1.0
ND10-3067	PGBDYYI	2.3	1.0
ND10-3318	PGBDYYI	1.8	3.0
ND10-3330	PGBDYYI	2.3	4.3
ND10-3413	WGTDYLbfI	2.3	3.3
ND10-3434	WGTDYLbfI	2.1	2.7
ND10-3459	WGTDYLbfI	2.1	2.7
ND10-4485	PGBDYYI	2.6	2.0
ND10-4518	PGBIYYI	2.3	2.7
OAC 11-25C	PTBIYYI	2.4	2.0
OAC 11-43C	PTBDYYI	2.6	3.0

Uniform Test 0, 2014

Regional Summary

	Yield	Rank	Maturity	Lodging	Plant Height	Seed Quality	Seed Size	Composition	
								Protein	Oil
No. of Tests	6	6	7	6	7	7	7	7	7
Strain	bu/a	No.	Date	Score	In	Score	g/100	%	%
Sheyenne (0)	55.7	6	9/23	1.1	29.6	1.9	17.1	34.3	18.4
MN1410 (I)	61.1	1	7.1	1.4	33.4	1.3	17.8	35.4	18.3
Surge (L)	47.4	21	3.1	1.3	26.5	1.6	20.2	36.2	18.2
MN0095 (E)	46.7	22	-7.2	1.1	26.0	1.4	14.6	35.1	18.7
MN0606CN (SCN)	55.3	8	1.4	1.7	29.5	1.6	16.6	35.4	18.0
M06-289001	49.7	18	-2.9	1.1	32.1	1.4	17.3	36.4	18.0
M06-380029	52.1	11	1.0	1.7	28.7	1.6	17.9	35.0	18.2
M07-260028	50.2	15	-5.7	1.1	27.3	1.7	17.4	36.7	17.2
M07-278126	51.7	13	-2.5	1.2	27.1	1.7	16.0	34.2	18.3
M08-144031	50.1	17	4.4	1.5	29.6	1.8	23.5	36.3	18.2
M08-144119	47.7	20	1.1	1.3	26.8	1.8	19.8	35.4	18.2
M08-154093	55.1	9	-0.8	1.0	26.5	1.4	19.7	34.8	19.1
ND10-3067	57.9	4	0.3	1.1	28.3	2.1	17.1	34.5	18.3
ND10-3318	53.7	10	-1.7	1.1	29.1	1.7	17.0	34.2	18.4
ND10-3330	58.1	3	-1.4	1.2	29.3	1.7	16.6	34.1	18.3
ND10-3413	49.1	19	-2.8	1.1	26.0	2.2	16.0	35.9	18.0
ND10-3434	50.1	16	-2.0	1.1	26.3	2.5	16.2	35.8	18.1
ND10-3459	52.0	12	-2.7	1.2	26.4	2.4	16.5	35.9	18.2
ND10-4485	50.6	14	-4.8	1.1	25.0	1.4	16.8	33.3	19.5
ND10-4518	57.3	5	0.8	1.3	29.7	2.5	16.1	33.8	18.5
OAC 11-25C	58.5	2	-1.1	1.3	28.2	1.6	18.8	33.8	18.0
OAC 11-43C	55.6	7	-0.3	1.1	26.5	1.8	22.6	35.4	18.4

119.4 Days after Planting

Uniform Test 0, 2014

2013 – 2014 2 Year Mean

	Yield	Rank	Maturity	Lodging	Plant Height	Seed Quality	Seed Size	Composition	
								Protein	Oil
No. of Tests	13	13	16	15	16	16	16	15	15
Strain	bu/a	No.	Date	Score	In	Score	g/100	%	%
Sheyenne (0)	55.5	3	9/22	1.1	29.4	1.6	16.4	34.7	18.3
MN1410 (I)	61.3	1	7.1	1.6	32.7	1.3	17.8	35.9	18.3
Surge (L)	53.7	7	2.0	1.3	27.8	1.5	20.0	36.4	18.0
MN0095 (E)	49.8	14	-6.6	1.2	27.1	1.5	15.9	35.3	18.4
MN0606CN (SCN)	55.7	2	1.1	1.8	31.0	1.4	17.4	35.6	17.9
M06-289001	51.6	10	-2.9	1.4	30.7	1.5	17.3	36.5	18.2
M06-380029	52.9	9	-0.5	1.7	29.8	1.6	18.7	35.3	18.4
ND10-3067	55.0	5	0.7	1.2	28.8	2.0	16.3	34.9	18.2
ND10-3318	53.0	8	-1.7	1.1	28.6	1.7	16.5	34.6	18.4
ND10-3330	55.1	4	-1.1	1.2	29.3	1.5	16.1	34.4	18.3
ND10-3413	49.6	15	-2.3	1.2	25.8	2.0	15.7	36.3	18.1
ND10-3434	49.9	13	-2.0	1.1	26.3	2.2	15.7	36.4	18.0
ND10-3459	50.2	12	-1.9	1.2	26.1	2.0	15.9	36.2	18.1
ND10-4485	50.4	11	-4.4	1.1	26.8	1.6	16.3	34.3	19.0
ND10-4518	54.7	6	-1.1	1.2	28.7	2.0	16.4	34.1	18.4

120.2 Days after Planting

Uniform Test 0, 2014

Yield (bu/a)

Strain	Mean 6 Tests	Morris MN*	Rosemount MN	Casselton ND	Ottawa ONT	St. Paul ONT	Woodstock ONT	St. Mathieu de-Beloeil QUE
Sheyenne (0)	55.7	49.9	41.2	57.1	50.7	45.6	40.4	99.0
MN1410 (I)	61.1	42.8	41.1	62.0	65.3	52.4	45.2	100.7
Surge (L)	47.4	38.0	29.1	51.2	43.0	41.2	36.2	83.5
MN0095 (E)	46.7	47.5	30.7	51.4	49.5	41.1	27.5	80.0
MN0606CN (SCN)	55.3	51.7	40.4	55.7	48.1	55.2	38.1	94.2
M06-289001	49.7	48.2	35.0	51.1	49.8	39.7	38.9	83.6
M06-380029	52.1	46.5	37.3	54.1	57.4	46.2	37.5	80.1
M07-260028	50.2	46.5	33.3	52.9	51.4	38.8	35.2	89.4
M07-278126	51.7	37.7	34.7	59.3	54.3	39.4	32.9	89.6
M08-144031	50.1	45.6	32.2	56.2	53.0	38.3	31.0	89.8
M08-144119	47.7	45.6	30.2	55.3	51.5	32.8	32.3	84.3
M08-154093	55.1	58.9	34.5	57.5	63.8	41.7	38.2	95.0
ND10-3067	57.9	58.4	38.8	57.7	62.9	46.7	40.7	100.7
ND10-3318	53.7	43.4	34.3	57.5	52.6	42.9	40.1	94.9
ND10-3330	58.1	45.2	39.0	60.6	57.5	53.0	39.4	98.8
ND10-3413	49.1	57.8	33.9	54.9	50.0	40.1	30.1	85.8
ND10-3434	50.1	51.9	36.8	57.4	49.7	37.9	33.9	85.0
ND10-3459	52.0	56.8	36.6	54.2	54.2	45.6	31.0	90.3
ND10-4485	50.6	41.7	33.0	52.7	55.2	41.9	31.7	89.2
ND10-4518	57.3	50.4	36.7	59.8	57.0	51.7	41.8	97.0
OAC 11-25C	58.5	50.0	34.5	56.0	58.0	54.5	47.4	100.6
OAC 11-43C	55.6	51.2	34.4	56.8	56.4	47.0	43.5	95.6
Location Mean		48.4	35.4	56.0	54.2	44.3	37.0	91.2
C.V. (%)		16.3	8.1	9.5	7.2	14.2	8.1	4.2
L.S.D. (5%)		13.1	4.7	8.5	7.7	11.1	5.3	6.3
Row Sp (In.)		30	30	30	16	14	14	7
Rows/Plot		4	4	4	4	4	4	5
Reps		3	3	3	3	3	3	3

*Data not included in the mean

Uniform Test 0, 2014

Yield Rank

Strain	Mean 6 Tests	Morris MN	Rosemount MN	Casselton ND	Ottawa ONT	St. Paul ONT	Woodstock ONT	St. Mathieu de-Beloeil QUE
Sheyenne (0)	6	10	1	9	16	10	6	4
MN1410 (I)	1	19	2	1	1	4	2	1
Surge (L)	21	21	22	21	22	14	13	20
MN0095 (E)	22	12	20	20	20	15	22	22
MN0606CN (SCN)	8	6	3	13	21	1	11	10
M06-289001	18	11	10	22	18	17	9	19
M06-380029	11	13	6	17	6	8	12	21
M07-260028	15	13	17	18	15	19	14	14
M07-278126	13	22	11	4	10	18	16	13
M08-144031	17	15	19	11	12	20	19	12
M08-144119	20	15	21	14	14	22	17	18
M08-154093	9	1	12	6	2	13	10	8
ND10-3067	4	2	5	5	3	7	5	1
ND10-3318	10	18	15	6	13	11	7	9
ND10-3330	3	17	4	2	5	3	8	5
ND10-3413	19	3	16	15	17	16	21	16
ND10-3434	16	5	7	8	19	21	15	17
ND10-3459	12	4	9	16	11	9	19	11
ND10-4485	14	20	18	19	9	12	18	15
ND10-4518	5	8	8	3	7	5	4	6
OAC 11-25C	2	9	12	12	4	2	1	3
OAC 11-43C	7	7	14	10	8	6	3	7

Uniform Test 0, 2014

Maturity (date)

Strain	Mean 7 Tests	Morris MN	Rosemount MN	Casselton ND	Ottawa ONT	St. Paul ONT	Woodstock ONT	St. Mathieu de-Beloeil QUE
Sheyenne (0)	9/23	9/22	9/22	9/23	9/28	9/26	9/27	9/15
MN1410 (I)	7.1	4.0	5.0	11.0	1.0	6.7	9.7	7.0
Surge (L)	3.1	1.0	2.0	6.0	1.0	2.0	3.6	4.0
MN0095 (E)	-7.2	-1.0	-5.0	-9.0	-12.0	-4.3	-4.6	-6.0
MN0606CN (SCN)	1.4	2.0	3.0	2.0	-1.0	0.7	3.9	4.0
M06-289001	-2.9	-1.0	1.0	-3.0	-7.0	1.0	0.7	-6.0
M06-380029	1.0	0.0	1.0	4.0	1.0	2.3	0.8	-3.0
M07-260028	-5.7	0.0	-1.0	-6.0	-12.0	-1.7	-1.6	-7.0
M07-278126	-2.5	0.0	-2.0	-2.0	-3.0	-0.7	-0.9	-6.0
M08-144031	4.4	0.0	3.0	3.0	1.0	7.3	6.2	3.0
M08-144119	1.1	1.0	-1.0	0.0	-2.0	4.0	3.6	0.0
M08-154093	-0.8	0.0	2.0	0.0	-4.0	0.7	2.2	-3.0
ND10-3067	0.3	2.0	1.0	0.0	0.0	1.0	0.4	3.0
ND10-3318	-1.7	0.0	0.0	-1.0	-3.0	-2.7	0.0	-2.0
ND10-3330	-1.4	0.0	1.0	0.0	-2.0	-2.0	0.1	-3.0
ND10-3413	-2.8	0.0	-2.0	-3.0	-6.0	-0.3	0.3	-5.0
ND10-3434	-2.0	0.0	-1.0	-3.0	-4.0	-0.7	1.8	-4.0
ND10-3459	-2.7	0.0	-1.0	-4.0	-6.0	-0.7	2.4	-5.0
ND10-4485	-4.8	-1.0	-4.0	-3.0	-8.0	-5.7	-4.5	-3.0
ND10-4518	0.8	1.0	1.0	1.0	0.0	1.0	1.4	1.0
OAC 11-25C	-1.1	1.0	5.0	1.0	-5.0	0.3	-0.9	-1.0
OAC 11-43C	-0.3	2.0	4.0	2.0	-2.0	1.7	-0.3	-3.0
Date Planted	5/26	5/22	6/6	5/22	5/20	5/28	6/6	5/22
Days To Mature	119.4	123.0	108.0	124.0	131.0	121.0	113.0	116.0

Uniform Test 0, 2014

Lodging (Score)

Strain	Mean 6 Tests	Rosemount MN	Casselton ND	Ottawa ONT	St. Paul ONT	Woodstock ONT	St. Mathieu de-Beloeil QUE
Sheyenne (0)	1.1	1.0	1.0	1.5	1.0	1.0	1.0
MN1410 (I)	1.4	1.0	1.7	2.1	1.2	1.5	1.0
Surge (L)	1.3	2.0	1.0	1.5	1.0	1.2	1.0
MN0095 (E)	1.1	1.0	1.0	0.5	2.0	1.3	1.0
MN0606CN (SCN)	1.7	2.0	1.7	2.4	1.4	1.7	1.0
M06-289001	1.1	1.0	1.3	1.4	1.1	1.0	1.0
M06-380029	1.7	2.0	2.0	2.5	1.3	1.3	1.0
M07-260028	1.1	1.0	1.0	1.5	1.0	1.0	1.0
M07-278126	1.2	2.0	1.0	1.1	1.0	1.0	1.0
M08-144031	1.5	1.0	1.3	2.0	1.4	2.3	1.0
M08-144119	1.3	1.0	1.0	2.0	1.4	1.3	1.0
M08-154093	1.0	1.0	1.0	1.2	1.0	1.0	1.0
ND10-3067	1.1	1.0	1.0	1.6	1.0	1.0	1.0
ND10-3318	1.1	1.0	1.0	1.7	1.0	1.0	1.0
ND10-3330	1.2	2.0	1.0	1.0	1.0	1.0	1.0
ND10-3413	1.1	1.0	1.0	1.5	1.0	1.0	1.0
ND10-3434	1.1	1.0	1.0	1.3	1.0	1.0	1.0
ND10-3459	1.2	1.0	1.0	1.9	1.0	1.0	1.0
ND10-4485	1.1	1.0	1.0	1.4	1.0	1.0	1.0
ND10-4518	1.3	1.0	1.0	2.5	1.0	1.2	1.0
OAC 11-25C	1.3	2.0	1.0	1.3	1.0	1.2	1.0
OAC 11-43C	1.1	1.0	1.0	1.4	1.0	1.0	1.0

Uniform Test 0, 2014

Plant Height (Inches)

Strain	Mean 7 Tests	Morris MN	Rosemount MN	Casselton ND	Ottawa ONT	St. Paul ONT	Woodstock ONT	St. Mathieu de-Beloeil QUE
Sheyenne (0)	29.6	27.0	24.0	29.0	33.0	30.3	36.8	27.0
MN1410 (I)	33.4	30.0	30.0	33.0	37.0	34.0	39.1	31.0
Surge (L)	26.5	25.0	21.0	26.0	30.0	28.0	32.8	23.0
MN0095 (E)	26.0	21.0	20.0	25.0	35.0	30.0	31.2	20.0
MN0606CN (SCN)	29.5	27.0	25.0	25.0	36.0	32.7	33.8	27.0
M06-289001	32.1	31.0	28.0	29.0	39.0	30.3	36.6	31.0
M06-380029	28.7	23.0	25.0	29.0	34.0	31.3	34.9	24.0
M07-260028	27.3	26.0	23.0	25.0	32.0	29.0	32.1	24.0
M07-278126	27.1	22.0	22.0	26.0	35.0	28.0	32.4	24.0
M08-144031	29.6	25.0	23.0	28.0	33.0	32.0	37.9	28.0
M08-144119	26.8	23.0	22.0	25.0	31.0	28.3	33.2	25.0
M08-154093	26.5	27.0	21.0	24.0	31.0	28.0	31.5	23.0
ND10-3067	28.3	29.0	24.0	28.0	27.0	29.0	36.0	25.0
ND10-3318	29.1	25.0	24.0	29.0	37.0	29.3	33.6	26.0
ND10-3330	29.3	26.0	25.0	27.0	36.0	30.7	35.6	25.0
ND10-3413	26.0	25.0	21.0	24.0	30.0	27.3	32.4	22.0
ND10-3434	26.3	26.0	20.0	24.0	32.0	29.7	32.4	20.0
ND10-3459	26.4	24.0	20.0	24.0	35.0	29.0	31.6	21.0
ND10-4485	25.0	21.0	20.0	24.0	33.0	25.7	30.1	21.0
ND10-4518	29.7	28.0	25.0	28.0	36.0	29.3	36.6	25.0
OAC 11-25C	28.2	23.0	26.0	25.0	34.0	31.3	34.9	23.0
OAC 11-43C	26.5	20.0	23.0	27.0	30.0	28.7	33.7	23.0

Uniform Test 0, 2014

Seed Quality (Score)

Strain	Mean 7 Tests	Morris MN	Rosemount MN	Casselton ND	Ottawa ONT	St. Paul ONT	Woodstock ONT	St. Mathieu de-Beloeil QUE
Sheyenne (0)	1.9	3.0	2.0	1.0	2.2	1.5	1.5	2.0
MN1410 (I)	1.3	1.0	1.0	1.0	2.1	1.0	1.5	1.7
Surge (L)	1.6	2.0	1.0	1.0	2.1	1.0	1.5	2.3
MN0095 (E)	1.4	2.0	1.0	1.0	2.1	1.5	1.5	1.0
MN0606CN (SCN)	1.6	2.0	1.0	1.0	1.9	1.5	1.5	2.0
M06-289001	1.4	1.0	1.0	1.0	2.0	1.5	1.5	2.0
M06-380029	1.6	1.0	1.0	1.0	2.2	1.5	1.5	2.7
M07-260028	1.7	3.0	1.0	1.0	2.0	1.5	1.5	2.0
M07-278126	1.7	2.0	1.0	2.0	1.9	1.5	1.5	1.7
M08-144031	1.8	1.0	1.0	1.0	1.8	3.0	2.5	2.0
M08-144119	1.8	2.0	2.0	1.0	2.1	1.5	1.5	2.3
M08-154093	1.4	1.0	2.0	1.0	2.0	1.5	1.5	1.0
ND10-3067	2.1	4.0	1.0	1.0	3.0	1.5	1.5	3.0
ND10-3318	1.7	3.0	1.0	1.0	2.1	1.5	1.5	2.0
ND10-3330	1.7	2.0	2.0	1.0	1.8	1.5	1.5	2.0
ND10-3413	2.2	4.0	2.0	2.0	2.3	1.5	1.5	2.0
ND10-3434	2.5	5.0	2.0	3.0	2.4	1.5	1.5	2.0
ND10-3459	2.4	5.0	2.0	2.0	2.3	1.5	1.5	2.3
ND10-4485	1.4	2.0	1.0	1.0	1.8	1.5	1.5	1.3
ND10-4518	2.5	3.0	2.0	3.0	3.0	2.0	1.5	3.3
OAC 11-25C	1.6	2.0	1.0	1.0	2.0	1.0	1.5	2.7
OAC 11-43C	1.8	3.0	1.0	1.0	2.1	1.5	1.5	2.3

Uniform Test 0, 2014

Seed Size (g/100)

Strain	Mean 7 Tests	Morris MN	Rosemount MN	Casselton ND	Ottawa ONT	St. Paul ONT	Woodstock ONT	St. Mathieu de-Beloeil QUE
Sheyenne (0)	17.1	16.9	14.9	15.8	19.0	18.4	15.1	19.7
MN1410 (I)	17.8	15.2	15.3	15.8	21.0	19.6	17.0	21.0
Surge (L)	20.2	17.3	17.4	19.8	23.6	21.8	18.2	23.3
MN0095 (E)	14.6	14.1	12.6	15.3	15.7	16.0	12.6	16.2
MN0606CN (SCN)	16.6	15.5	13.5	16.1	18.9	18.5	15.4	18.3
M06-289001	17.3	17.2	14.5	17.7	19.4	18.3	16.0	17.9
M06-380029	17.9	19.1	16.2	16.1	20.0	18.5	16.1	19.4
M07-260028	17.4	16.7	16.4	14.7	20.5	18.1	15.7	19.8
M07-278126	16.0	15.2	14.6	15.4	18.5	16.2	14.4	17.8
M08-144031	23.5	22.1	20.7	22.2	26.0	26.2	21.6	25.8
M08-144119	19.8	17.8	18.0	19.5	21.9	20.9	18.4	21.8
M08-154093	19.7	18.9	16.0	18.0	22.4	20.9	19.2	22.5
ND10-3067	17.1	16.0	14.7	15.8	21.9	16.8	14.4	19.8
ND10-3318	17.0	16.0	15.1	16.1	19.3	17.1	16.5	19.1
ND10-3330	16.6	16.2	14.6	15.3	19.9	18.1	13.3	19.0
ND10-3413	16.0	15.9	13.8	14.7	17.9	17.0	13.8	19.1
ND10-3434	16.2	16.4	14.2	14.8	18.1	17.1	13.6	19.4
ND10-3459	16.5	17.0	14.2	15.3	17.9	17.4	14.5	19.0
ND10-4485	16.8	17.8	14.6	16.8	18.7	17.0	13.4	19.0
ND10-4518	16.1	16.2	14.2	15.6	18.6	15.5	13.4	18.9
OAC 11-25C	18.8	17.8	15.4	15.1	22.6	20.2	17.1	23.7
OAC 11-43C	22.6	23.2	19.7	19.8	25.8	24.8	18.0	26.8

Uniform Test 0, 2014

Protein (%)

Strain	Mean 7 Tests	Morris MN	Rosemount MN	Casselton ND	Ottawa ONT*	St. Paul ONT*	Woodstock ONT*	St. Mathieu de-Beloeil QUE*
Sheyenne (0)	34.3	34.4	33.2	32.1	35.4	36.2	34.4	34.5
MN1410 (I)	35.4	35.1	34.3	34.1	37.1	35.7	36.1	35.5
Surge (L)	36.2	35.5	35.7	35.5	37.5	36.6	36.5	36.2
MN0095 (E)	35.1	35.1	34.6	32.8	35.1	36.9	36.2	35.0
MN0606CN (SCN)	35.4	34.5	34.4	33.2	36.5	36.9	36.7	35.1
M06-289001	36.4	36.0	34.9	35.6	37.1	38.0	36.7	36.3
M06-380029	35.0	35.3	34.3	33.0	35.8	36.5	34.7	35.4
M07-260028	36.7	37.0	36.1	35.2	36.8	37.4	37.1	37.1
M07-278126	34.2	35.1	34.0	32.8	33.8	35.7	34.5	33.5
M08-144031	36.3	36.3	35.2	35.7	36.1	38.2	36.0	36.3
M08-144119	35.4	35.6	34.4	34.2	35.8	36.2	35.3	36.0
M08-154093	34.8	35.0	33.4	32.8	35.4	36.5	35.8	35.0
ND10-3067	34.5	35.0	35.8	32.5	35.0	35.9	33.2	34.4
ND10-3318	34.2	35.1	32.8	32.0	35.5	36.3	33.5	34.1
ND10-3330	34.1	34.7	33.8	32.2	34.5	35.3	33.6	34.4
ND10-3413	35.9	36.3	35.8	33.6	36.9	37.7	34.7	36.6
ND10-3434	35.8	36.6	35.4	33.5	37.2	36.3	34.6	36.9
ND10-3459	35.9	36.4	35.0	33.4	37.1	37.3	35.1	36.6
ND10-4485	33.3	34.3	32.4	30.3	33.8	35.4	33.2	33.5
ND10-4518	33.8	34.5	32.9	32.6	34.6	35.1	32.7	34.2
OAC 11-25C	33.8	34.2	32.4	31.4	35.2	35.1	33.8	34.8
OAC 11-43C	35.4	36.2	35.0	34.0	36.7	37.8	32.0	36.5

*Protein and Oil values converted to 13% moisture basis

Uniform Test 0, 2014

Oil (%)

Strain	Mean 7 Tests	Morris MN	Rosemount MN	Casselton ND	Ottawa ONT*	St. Paul ONT*	Woodstock ONT*	St. Mathieu de-Beloeil QUE*
Sheyenne (0)	18.4	19.1	19.4	18.1	18.1	17.8	17.7	18.3
MN1410 (I)	18.3	18.8	18.8	17.6	17.9	18.4	17.8	18.8
Surge (L)	18.2	19.1	18.9	17.3	17.8	18.1	17.7	18.2
MN0095 (E)	18.7	19.2	19.6	19.4	18.5	17.7	17.9	18.8
MN0606CN (SCN)	18.0	18.8	18.6	17.8	17.7	17.7	17.4	18.1
M06-289001	18.0	18.5	18.9	17.4	17.5	17.7	17.9	17.9
M06-380029	18.2	18.7	19.2	17.9	17.7	17.7	18.2	18.1
M07-260028	17.2	17.8	18.1	17.2	16.8	17.0	16.6	16.7
M07-278126	18.3	18.4	19.2	18.2	18.6	17.6	17.7	18.5
M08-144031	18.2	19.1	19.5	17.4	18.7	17.1	17.5	18.0
M08-144119	18.2	18.7	19.2	18.5	18.0	17.6	17.5	17.8
M08-154093	19.1	19.4	20.0	19.3	19.2	18.4	18.5	19.1
ND10-3067	18.3	18.5	18.6	18.3	18.2	17.9	18.0	18.3
ND10-3318	18.4	18.8	19.4	18.1	18.2	17.9	17.8	18.4
ND10-3330	18.3	18.5	18.8	18.2	18.4	17.9	17.9	18.4
ND10-3413	18.0	18.2	19.1	18.3	17.5	17.2	17.8	18.1
ND10-3434	18.1	18.2	19.2	18.5	17.4	17.7	17.8	18.0
ND10-3459	18.2	18.2	19.4	18.5	17.5	17.6	17.7	18.4
ND10-4485	19.5	19.7	20.5	19.2	19.5	18.7	19.3	19.2
ND10-4518	18.5	18.4	19.5	18.4	18.3	18.0	18.3	18.6
OAC 11-25C	18.0	17.9	18.3	18.2	17.8	18.1	18.1	17.7
OAC 11-43C	18.4	18.6	19.4	18.0	18.1	17.7	18.7	18.4

*Protein and Oil values converted to 13% moisture basis

Preliminary Test 0, 2014

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.	M08-212033	MN0304 x PI437471	Orf	F5	DIVERSITY
6.	M08-218002	MN0302 x M01-228058	Orf	F5	DIVERSITY
7.	M08-218089	MN0302 x M01-228058	Orf	F5	DIVERSITY
8.	M08-221060	MN1013 x PI437471	Orf	F5	DIVERSITY
9.	M08-224101	M01-242042 x MN1013	Orf	F5	DIVERSITY
10.	M08-225081	MN0095 x M01-242042	Orf	F5	DIVERSITY
11.	M08-231043	HEINONG 44 x MN0071	Orf	F5	DIVERSITY
12.	M08-337014	PI522189 x ND02-3783	Orf	F5	
13.	M08-427065	MN0504 x ND04-11603	Orf	F5	
14.	M08-434013	M02-333013 x M02-328023	Orf	F5	YIELD
15.	M08-434024	M02-333013 x M02-328023	Orf	F5	YIELD
16.	M09-159052	M03-331015 x SHEYENNE	Orf	F5	HIGH PROTEIN, LARGE SEED
17.	ND10-2763	Sheyenne x ND03-5441	Helms	F4	SCN
18.	ND10-2769	Sheyenne x ND03-5441	Helms	F4	
19.	ND10-3048	Sheyenne x [LaMoureBC2(Rag1)]	Helms	F4	
20.	ND10-3323	Sheyenne x [LaMoureBC2(Rag1)]	Helms	F4	
21.	ND10-3419	ND03-7566 x [ND03-5441 x LaMoure]	Helms	F4	SCN
22.	ND10-3427	ND03-7566 x [ND03-5441 x LaMoure]	Helms	F4	SCN
23.	ND10-3446	ND03-7566 x [ND03-5441 x LaMoure]	Helms	F4	SCN
24.	ND10-3449	ND03-7566 x [ND03-5441 x LaMoure]	Helms	F4	
25.	ND10-3460	ND03-7566 x [ND03-5441 x LaMoure]	Helms	F4	SCN
26.	ND10-3464	ND03-7566 x [ND03-5441 x LaMoure]	Helms	F4	SCN
27.	ND10-3473	ND03-7566 x [ND03-5441 x LaMoure]	Helms	F4	SCN
28.	ND10-3482	ND03-7566 x [ND03-5441 x LaMoure]	Helms	F4	SCN
29.	ND10-3495	ND03-7566 x [ND03-5441 x LaMoure]	Helms	F4	SCN
30.	ND10-3600	ND03-7566 x [ND03-5441 x LaMoure]	Helms	F4	SCN
31.	ND10-3601	ND03-7566 x [ND03-5441 x LaMoure]	Helms	F4	SCN
32.	ND10-3608	ND03-7566 x [ND03-5441 x LaMoure]	Helms	F4	SCN
33.	ND10-3610	ND03-7566 x [ND03-5441 x LaMoure]	Helms	F4	SCN
34.	OAC 12-19C	OAC Wallace x SD 03-2327	Rajcan	F5	
35.	OAC 12-21C	Colby x OAC 05-30	Rajcan	F5	
36.	OAC 12-31C	Colby x OAC 05-02	Rajcan	F5	
37.	OAC 12-44C	SeCan 05-33 x Ji Yu No. 80	Rajcan	F5	

Preliminary Test 0, 2014

Descriptive and Disease Data

Strain	Descriptive Code	FE Chlorosis Score Minnesota	Green Stem Score St. Mathieu, QUE
Sheyenne (0)	PGBIYYI	2.2	1.0
MN1410 (I)	WGBIYBfI	2.3	1.0
Surge (L)	PGBDYIbI	2.3	1.0
MN0095 (E)	PGBDYIbI	1.9	1.5
M08-212033	PTTDYYI	2.6	1.0
M08-218002	PT+GTDYBrI	2.4	1.0
M08-218089	PTBDYBlI	2.2	1.5
M08-221060	PT+GBDYBrI	2.2	2.0
M08-224101	PGTIYYI	2.0	1.0
M08-225081	PGBIYIbI	1.8	1.0
M08-231043	PGBDYLbfI	2.8	1.5
M08-337014	PGBDYIbI	2.4	1.0
M08-427065	PGBDYBfI	2.2	1.5
M08-434013	PGTDYIbI	2.7	1.0
M08-434024	PTTIYBlI	2.3	1.0
M09-159052	PGBIYYI	2.3	1.0
ND10-2763	PGTDYYI	2.4	1.0
ND10-2769	PGTDYYI	2.2	2.0
ND10-3048	PGBDYYI	2.2	2.5
ND10-3323	PGBDYYI	2.2	4.5
ND10-3419	WGTDYBfI	1.9	2.0
ND10-3427	WGTDYBfI	1.5	1.5
ND10-3446	WGTDYBfI	1.9	3.0
ND10-3449	PGBDYYI	2.2	3.0
ND10-3460	WGTDYBfI	2.1	3.0
ND10-3464	WGTIYBfI	2.2	2.0
ND10-3473	WGTDYBfI	2.1	1.0
ND10-3482	WGTDYBfI	2.3	1.5
ND10-3495	WGTDYBfI	1.9	2.0
ND10-3600	WGTDYBfI	2.3	1.5
ND10-3601	WGTDYBfI	1.9	2.5
ND10-3608	WGTDYBfI	2.0	2.0
ND10-3610	WGTDYBfI	2.2	1.5
OAC 12-19C	PTBDYBlI	2.4	1.5
OAC 12-21C	PTBDYYI	2.5	1.0
OAC 12-31C	PTBDYYI	2.4	1.0
OAC 12-44C	PGBIYYI	2.8	1.0

Preliminary Test 0, 2014

Regional Summary

	Yield	Rank	Maturity	Lodging	Plant Height	Seed Quality	Seed Size	Composition	
								Protein	Oil
No. of Tests	6	6	7	6	7	7	7	6	6
Strain	bu/a	No.	Date	Score	In	Score	g/100	%	%
Sheyenne (0)	53.3	7	9/23	1.1	29.2	1.8	17.4	34.5	18.5
MN1410 (I)	60.3	1	5.0	1.4	33.2	1.4	18.3	35.0	18.7
Surge (L)	47.9	33	3.2	1.2	27.0	1.6	21.1	36.4	18.3
MN0095 (E)	46.2	37	-6.3	1.2	26.0	1.4	14.8	35.2	18.7
M08-212033	47.1	36	-1.0	1.7	30.8	1.8	17.0	35.8	18.2
M08-218002	54.4	6	4.3	1.4	33.5	1.5	17.2	36.2	18.4
M08-218089	52.0	12	0.2	1.0	31.5	1.5	19.4	36.0	18.8
M08-221060	50.2	22	1.4	1.5	33.2	1.4	18.7	36.9	17.6
M08-224101	51.3	19	-2.0	1.3	31.7	1.4	18.0	35.4	18.6
M08-225081	49.4	27	-2.5	1.3	27.5	2.1	17.1	35.7	18.9
M08-231043	51.4	18	-0.8	1.8	32.0	1.6	18.1	36.3	17.7
M08-337014	48.3	31	1.2	2.2	32.7	1.3	19.0	36.2	18.1
M08-427065	50.1	23	-1.2	1.7	31.0	1.3	15.8	34.3	18.4
M08-434013	49.5	25	-2.8	1.1	27.7	1.3	18.4	35.7	18.5
M08-434024	54.8	5	-1.0	1.5	30.5	1.5	18.9	35.6	18.4
M09-159052	50.0	24	-0.2	1.2	26.8	1.5	17.4	36.0	18.2
ND10-2763	49.5	26	-4.0	1.2	26.8	1.8	15.2	34.7	18.7
ND10-2769	47.8	34	-4.3	1.3	25.8	1.8	15.1	34.7	18.3
ND10-3048	53.1	8	-3.0	1.3	28.8	1.8	17.3	34.6	18.4
ND10-3323	56.6	3	-2.8	1.0	29.3	1.9	17.3	34.4	18.5
ND10-3419	51.9	13	-2.3	1.1	25.7	2.3	16.5	35.9	18.4
ND10-3427	50.5	21	-2.5	1.3	25.5	2.3	16.5	36.1	18.3
ND10-3446	47.5	35	-2.5	1.0	25.2	2.5	16.4	35.5	18.5
ND10-3449	57.7	2	-2.5	1.1	29.8	1.8	17.2	34.9	18.4
ND10-3460	49.1	29	-2.0	1.1	24.7	2.1	16.2	36.5	18.1
ND10-3464	51.4	17	-3.0	1.1	28.0	1.9	16.2	36.2	18.1
ND10-3473	52.7	11	-3.3	1.0	28.3	1.8	15.8	35.9	18.2
ND10-3482	53.1	9	-3.0	1.1	28.5	1.8	16.1	36.1	18.1
ND10-3495	51.3	20	-3.0	1.1	26.5	2.1	15.8	36.1	18.2
ND10-3600	51.8	14	-2.5	1.1	25.0	2.3	16.3	35.8	18.2
ND10-3601	49.3	28	-1.8	1.2	25.8	1.9	16.2	36.0	18.2
ND10-3608	47.9	32	-3.8	1.2	24.7	2.3	16.0	35.8	18.4
ND10-3610	48.5	30	-2.0	1.1	25.3	2.3	16.1	36.2	18.1
OAC 12-19C	51.7	15	-1.5	1.4	28.3	1.3	18.9	32.9	19.1
OAC 12-21C	55.8	4	3.3	1.4	26.8	1.6	21.0	34.9	18.3
OAC 12-31C	52.9	10	-1.0	1.0	29.8	1.3	18.5	36.5	18.8
OAC 12-44C	51.6	16	0.0	1.5	30.3	1.5	18.3	36.4	18.1

118.5 Days After Planting

Preliminary Test 0, 2014

Yield (bu/acre)

Strain	Mean 6 Tests	Morris MN	Rosemount MN	Casselton ND	St. Pauls ONT	Woodstock ONT	St. Mathieu de-Beloeil QUE
Sheyenne (0)	53.3	53.0	38.6	54.4	48.9	30.0	94.6
MN1410 (I)	60.3	62.0	47.7	54.0	52.2	36.6	109.3
Surge (L)	47.9	46.0	32.2	47.4	43.0	29.2	89.4
MN0095 (E)	46.2	45.7	31.8	49.1	36.7	28.6	85.4
M08-212033	47.1	46.3	35.4	50.2	38.6	23.0	89.1
M08-218002	54.4	52.0	38.4	55.8	48.6	33.2	98.6
M08-218089	52.0	45.7	32.9	57.4	43.9	31.6	100.6
M08-221060	50.2	50.4	38.4	49.4	49.6	33.1	80.5
M08-224101	51.3	47.7	43.3	54.4	44.0	28.1	90.4
M08-225081	49.4	54.3	34.7	47.8	41.3	28.6	89.6
M08-231043	51.4	45.7	34.4	49.6	52.5	39.0	87.0
M08-337014	48.3	43.3	36.9	48.2	46.0	27.7	87.9
M08-427065	50.1	45.7	37.6	52.9	47.3	30.0	87.2
M08-434013	49.5	45.1	37.2	50.6	45.3	31.0	87.7
M08-434024	54.8	55.0	39.5	48.0	49.2	37.6	99.4
M09-159052	50.0	45.6	30.5	61.0	43.8	29.1	90.1
ND10-2763	49.5	51.1	41.4	50.4	39.8	30.0	84.0
ND10-2769	47.8	48.3	36.1	45.1	46.4	21.5	89.4
ND10-3048	53.1	45.9	41.4	56.6	51.7	28.6	94.3
ND10-3323	56.6	51.1	39.5	58.8	51.6	36.0	102.7
ND10-3419	51.9	57.6	38.9	49.6	48.0	26.0	91.3
ND10-3427	50.5	58.9	35.4	56.2	42.2	24.8	85.3
ND10-3446	47.5	46.8	41.1	53.4	27.3	24.4	91.9
ND10-3449	57.7	50.6	45.0	59.1	47.9	34.9	108.4
ND10-3460	49.1	53.3	38.6	51.9	39.2	18.8	92.5
ND10-3464	51.4	58.1	43.2	53.6	46.0	23.8	83.7
ND10-3473	52.7	53.6	43.1	56.3	44.3	30.8	88.1
ND10-3482	53.1	61.5	41.9	50.0	45.4	30.6	88.9
ND10-3495	51.3	59.3	35.1	57.3	45.8	19.2	91.0
ND10-3600	51.8	53.4	44.2	51.8	40.6	29.6	91.0
ND10-3601	49.3	54.1	39.9	51.9	36.5	26.6	86.7
ND10-3608	47.9	46.5	40.5	53.0	43.5	23.8	80.3
ND10-3610	48.5	52.7	35.0	56.6	34.8	24.8	86.9
OAC 12-19C	51.7	43.4	38.4	47.2	53.6	34.7	92.8
OAC 12-21C	55.8	51.1	38.2	56.0	48.5	38.0	102.7
OAC 12-31C	52.9	47.9	34.5	50.7	48.6	37.8	97.6
OAC 12-44C	51.6	46.4	35.5	45.7	48.6	35.9	97.5
Location Mean		50.7	38.3	52.5	44.9	29.6	91.7
C.V. (%)		9.7	11.1	12.8	5.74	11.73	7.62
L.S.D. (5%)		9.9	8.5	10.8	5.1	7.1	14.5
Row Sp (In.)		30	30	30	14	14	7
Rows/Plot		2	2	4	4	4	5
Reps		2	2	3	2	2	2

Preliminary Test 0, 2014

Yield Rank

Strain	Yield Rank 6 Tests	Morris MN	Rosemount MN	Casselton ND	St. Pauls ONT	Woodstock ONT	St. Mathieu de-Beloeil QUE
Sheyenne (0)	7	13	16	12	8	16	10
MN1410 (I)	1	1	1	14	3	5	1
Surge (L)	33	28	35	34	27	20	21
MN0095 (E)	37	30	36	30	34	22	32
M08-212033	36	27	27	25	33	34	23
M08-218002	6	15	18	11	9	10	7
M08-218089	12	30	34	4	24	12	5
M08-221060	22	20	18	29	6	11	36
M08-224101	19	23	4	12	23	25	18
M08-225081	27	8	31	33	29	22	20
M08-231043	18	30	33	27	2	1	29
M08-337014	31	37	24	31	17	26	26
M08-427065	23	30	22	18	15	16	28
M08-434013	25	35	23	23	21	13	27
M08-434024	5	7	13	32	7	4	6
M09-159052	24	34	37	1	25	21	19
ND10-2763	26	16	8	24	31	16	34
ND10-2769	34	21	25	37	16	35	22
ND10-3048	8	29	8	6	4	22	11
ND10-3323	3	16	13	3	5	6	3
ND10-3419	13	6	15	27	13	28	15
ND10-3427	21	4	27	9	28	29	33
ND10-3446	35	24	10	16	37	31	14
ND10-3449	2	19	2	2	14	8	2
ND10-3460	29	12	16	19	32	37	13
ND10-3464	17	5	5	15	17	32	35
ND10-3473	11	10	6	8	22	14	25
ND10-3482	9	2	7	26	20	15	24
ND10-3495	20	3	29	5	19	36	16
ND10-3600	14	11	3	19	30	19	17
ND10-3601	28	9	12	19	35	27	31
ND10-3608	32	25	11	17	26	32	37
ND10-3610	30	14	30	6	36	29	30
OAC 12-19C	15	36	18	35	1	9	12
OAC 12-21C	4	16	21	10	12	2	4
OAC 12-31C	10	22	32	22	9	3	8
OAC 12-44C	16	26	26	36	9	7	9

Preliminary Test 0, 2014

Maturity (dates)

Strain	Mean 6 Tests	Morris MN	Rosemount MN	Casselton ND	St. Pauls ONT	Woodstock ONT	St. Mathieu de-Beloeil QUE
Sheyenne (0)	9/23	9/22	9/23	9/25	9/26	9/26	9/17
MN1410 (I)	5.0	4.0	5.0	1.0	6.0	11.0	3.0
Surge (L)	3.2	2.0	1.0	0.0	2.0	12.0	2.0
MN0095 (E)	-6.3	-1.0	-6.0	-10.0	-6.0	-2.0	-7.0
M08-212033	-1.0	-1.0	-1.0	-3.0	1.0	2.0	-4.0
M08-218002	4.3	2.0	2.0	5.0	4.0	11.0	2.0
M08-218089	0.2	0.0	1.0	1.0	1.0	3.0	-5.0
M08-221060	1.4	0.0	1.0	0.0	2.0	4.0	0.0
M08-224101	-2.0	0.0	-1.0	-1.0	-2.0	1.0	-6.0
M08-225081	-2.5	0.0	-2.0	-7.0	-2.0	2.0	-3.0
M08-231043	-0.8	0.0	1.0	-2.0	0.0	5.0	-8.0
M08-337014	1.2	2.0	2.0	1.0	1.0	3.0	-2.0
M08-427065	-1.2	0.0	1.0	-2.0	0.0	0.0	-5.0
M08-434013	-2.8	-1.0	-1.0	-4.0	1.0	0.0	-8.0
M08-434024	-1.0	-1.0	1.0	-3.0	-1.0	3.0	-5.0
M09-159052	-0.2	0.0	1.0	0.0	0.0	2.0	-4.0
ND10-2763	-4.0	-1.0	-5.0	-5.0	-4.0	-1.0	-6.0
ND10-2769	-4.3	-1.0	-4.0	-5.0	-5.0	1.0	-8.0
ND10-3048	-3.0	0.0	-1.0	-4.0	-3.0	0.0	-5.0
ND10-3323	-2.8	0.0	-3.0	-3.0	-4.0	2.0	-6.0
ND10-3419	-2.3	-1.0	-2.0	-1.0	-2.0	1.0	-7.0
ND10-3427	-2.5	0.0	-6.0	-1.0	-5.0	3.0	-7.0
ND10-3446	-2.5	-1.0	-4.0	-4.0	-1.0	2.0	-7.0
ND10-3449	-2.5	0.0	-1.0	-2.0	-3.0	0.0	-5.0
ND10-3460	-2.0	0.0	-2.0	-3.0	0.0	2.0	-7.0
ND10-3464	-3.0	0.0	-4.0	-3.0	-1.0	1.0	-9.0
ND10-3473	-3.3	0.0	-2.0	-5.0	-1.0	2.0	-9.0
ND10-3482	-3.0	0.0	-2.0	-5.0	-1.0	3.0	-9.0
ND10-3495	-3.0	0.0	-3.0	-5.0	-3.0	3.0	-7.0
ND10-3600	-2.5	0.0	-6.0	-5.0	-1.0	3.0	-7.0
ND10-3601	-1.8	1.0	-2.0	-4.0	-2.0	2.0	-6.0
ND10-3608	-3.8	-1.0	-4.0	-7.0	-3.0	2.0	-7.0
ND10-3610	-2.0	-1.0	0.0	-2.0	-1.0	2.0	-7.0
OAC 12-19C	-1.5	1.0	3.0	-3.0	-5.0	-4.0	-1.0
OAC 12-21C	3.3	1.0	5.0	3.0	1.0	6.0	4.0
OAC 12-31C	-1.0	0.0	2.0	0.0	-3.0	0.0	-4.0
OAC 12-44C	0.0	-1.0	3.0	-1.0	2.0	3.0	-7.0
Date Planted	5/27	5/22	6/6	5/22	5/20	5/28	6/6
Days To Mature	118.5	123.0	109.0	126.0	129.0	121.0	103.0

Preliminary Test 0, 2014

Lodging (score)

Strain	Mean 5 Tests	Rosemount MN	Casselton ND	St. Pauls ONT	Woodstock ONT	St. Mathieu de-Beloeil QUE
Sheyenne (0)	1.1	1.0	1.0	1.0	1.4	1.0
MN1410 (I)	1.4	2.0	1.0	1.5	1.5	1.0
Surge (L)	1.2	2.0	1.0	1.0	1.0	1.0
MN0095 (E)	1.2	1.0	1.0	2.0	1.0	1.0
M08-212033	1.7	2.0	1.7	1.9	2.0	1.0
M08-218002	1.4	1.0	2.0	1.3	1.5	1.0
M08-218089	1.0	1.0	1.0	1.0	1.1	1.0
M08-221060	1.5	1.0	2.0	1.0	2.5	1.0
M08-224101	1.3	1.0	1.3	1.7	1.4	1.0
M08-225081	1.3	2.0	1.0	1.1	1.6	1.0
M08-231043	1.8	1.0	1.7	2.4	2.7	1.0
M08-337014	2.2	2.0	1.7	2.3	4.0	1.0
M08-427065	1.7	1.0	1.7	2.2	2.5	1.0
M08-434013	1.1	1.0	1.0	1.0	1.5	1.0
M08-434024	1.5	2.0	1.3	1.8	1.6	1.0
M09-159052	1.2	1.0	1.3	1.5	1.3	1.0
ND10-2763	1.2	1.0	1.0	1.8	1.1	1.0
ND10-2769	1.3	2.0	1.0	1.0	1.4	1.0
ND10-3048	1.3	2.0	1.0	1.2	1.5	1.0
ND10-3323	1.0	1.0	1.0	1.0	1.1	1.0
ND10-3419	1.1	1.0	1.7	1.0	1.0	1.0
ND10-3427	1.3	2.0	1.0	1.1	1.3	1.0
ND10-3446	1.0	1.0	1.0	1.0	1.0	1.0
ND10-3449	1.1	1.0	1.0	1.4	1.0	1.0
ND10-3460	1.1	1.0	1.3	1.1	1.0	1.0
ND10-3464	1.1	1.0	1.0	1.0	1.4	1.0
ND10-3473	1.0	1.0	1.0	1.0	1.1	1.0
ND10-3482	1.1	1.0	1.0	1.0	1.6	1.0
ND10-3495	1.1	1.0	1.0	1.0	1.3	1.0
ND10-3600	1.1	1.0	1.0	1.3	1.0	1.0
ND10-3601	1.2	2.0	1.0	1.0	1.0	1.0
ND10-3608	1.2	2.0	1.0	1.0	1.2	1.0
ND10-3610	1.1	1.0	1.0	1.1	1.2	1.0
OAC 12-19C	1.4	2.0	1.0	1.5	1.4	1.0
OAC 12-21C	1.4	2.0	1.7	1.0	1.3	1.0
OAC 12-31C	1.0	1.0	1.0	1.1	1.1	1.0
OAC 12-44C	1.5	2.0	1.0	1.3	2.3	1.0

Preliminary Test 0, 2014

Plant Height (inches)

Strain	Mean 6 Tests	Morris MN	Rosemount MN	Casselton ND	St. Pauls ONT	Woodstock ONT	St. Mathieu de-Beloeil QUE
Sheyenne (0)	29.2	27.0	25.0	30.0	35.0	33.0	25.0
MN1410 (I)	33.2	33.0	29.0	30.0	40.0	34.0	33.0
Surge (L)	27.0	26.0	23.0	26.0	31.0	31.0	25.0
MN0095 (E)	26.0	25.0	22.0	24.0	33.0	31.0	21.0
M08-212033	30.8	29.0	25.0	30.0	38.0	33.0	30.0
M08-218002	33.5	32.0	27.0	36.0	43.0	34.0	29.0
M08-218089	31.5	29.0	25.0	31.0	37.0	38.0	29.0
M08-221060	33.2	30.0	27.0	30.0	41.0	40.0	31.0
M08-224101	31.7	30.0	26.0	31.0	39.0	35.0	29.0
M08-225081	27.5	27.0	22.0	26.0	34.0	31.0	25.0
M08-231043	32.0	30.0	23.0	30.0	41.0	37.0	31.0
M08-337014	32.7	32.0	26.0	30.0	39.0	37.0	32.0
M08-427065	31.0	31.0	24.0	32.0	37.0	34.0	28.0
M08-434013	27.7	26.0	24.0	26.0	31.0	33.0	26.0
M08-434024	30.5	28.0	26.0	26.0	36.0	37.0	30.0
M09-159052	26.8	25.0	22.0	27.0	33.0	30.0	24.0
ND10-2763	26.8	28.0	23.0	26.0	31.0	28.0	25.0
ND10-2769	25.8	26.0	23.0	26.0	29.0	27.0	24.0
ND10-3048	28.8	26.0	24.0	29.0	36.0	33.0	25.0
ND10-3323	29.3	29.0	23.0	29.0	36.0	35.0	24.0
ND10-3419	25.7	25.0	21.0	24.0	32.0	27.0	25.0
ND10-3427	25.5	27.0	19.0	26.0	31.0	28.0	22.0
ND10-3446	25.2	26.0	21.0	22.0	28.0	31.0	23.0
ND10-3449	29.8	31.0	24.0	31.0	33.0	33.0	27.0
ND10-3460	24.7	27.0	21.0	22.0	30.0	26.0	22.0
ND10-3464	28.0	28.0	22.0	26.0	35.0	30.0	27.0
ND10-3473	28.3	28.0	24.0	27.0	33.0	31.0	27.0
ND10-3482	28.5	30.0	21.0	29.0	35.0	29.0	27.0
ND10-3495	26.5	28.0	22.0	25.0	31.0	31.0	22.0
ND10-3600	25.0	26.0	21.0	22.0	31.0	28.0	22.0
ND10-3601	25.8	28.0	20.0	24.0	30.0	30.0	23.0
ND10-3608	24.7	25.0	19.0	24.0	30.0	28.0	22.0
ND10-3610	25.3	27.0	21.0	23.0	28.0	29.0	24.0
OAC 12-19C	28.3	26.0	27.0	25.0	34.0	33.0	25.0
OAC 12-21C	26.8	25.0	24.0	26.0	31.0	30.0	25.0
OAC 12-31C	29.8	30.0	26.0	28.0	34.0	32.0	29.0
OAC 12-44C	30.3	30.0	27.0	26.0	37.0	36.0	26.0

Preliminary Test 0, 2014

Seed Quality (score)

Strain	Mean 6 Tests	Morris MN	Rosemount MN	Casselton ND	St. Pauls ONT	Woodstock ONT	St. Mathieu de-Beloeil QUE
Sheyenne (0)	1.8	2.0	1.0	2.0	1.5	1.5	3.0
MN1410 (I)	1.4	2.0	1.0	1.0	1.5	1.5	1.5
Surge (L)	1.6	2.0	2.0	1.0	1.5	1.5	1.5
MN0095 (E)	1.4	2.0	1.0	1.0	1.5	1.5	1.5
M08-212033	1.8	2.0	2.0	1.0	2.0	1.5	2.5
M08-218002	1.5	2.0	1.0	1.0	1.5	1.5	2.0
M08-218089	1.5	2.0	1.0	1.0	1.5	1.5	2.0
M08-221060	1.4	2.0	1.0	1.0	1.5	1.5	1.5
M08-224101	1.4	2.0	1.0	1.0	1.5	1.5	1.5
M08-225081	2.1	3.0	2.0	1.0	2.5	2.0	2.0
M08-231043	1.6	2.0	2.0	1.0	1.5	1.5	1.5
M08-337014	1.3	1.0	1.0	1.0	1.5	1.5	2.0
M08-427065	1.3	2.0	1.0	1.0	1.5	1.0	1.5
M08-434013	1.3	1.0	1.0	1.0	1.5	1.5	2.0
M08-434024	1.5	3.0	1.0	1.0	1.0	1.0	2.0
M09-159052	1.5	2.0	1.0	1.0	1.5	1.5	2.0
ND10-2763	1.8	2.0	1.0	3.0	1.5	1.5	1.9
ND10-2769	1.8	3.0	2.0	1.0	1.5	1.5	2.0
ND10-3048	1.8	3.0	1.0	1.0	1.5	1.5	2.5
ND10-3323	1.9	3.0	1.0	2.0	1.5	1.5	2.5
ND10-3419	2.3	3.0	2.0	3.0	1.5	1.5	2.5
ND10-3427	2.3	4.0	2.0	2.0	2.0	1.5	2.5
ND10-3446	2.5	4.0	2.0	3.0	2.0	1.5	2.5
ND10-3449	1.8	4.0	1.0	1.0	1.5	1.5	2.0
ND10-3460	2.1	3.0	2.0	2.0	1.5	1.5	2.5
ND10-3464	1.9	3.0	2.0	1.0	2.5	1.5	1.5
ND10-3473	1.8	2.0	2.0	1.0	2.0	1.5	2.0
ND10-3482	1.8	3.0	1.0	1.0	2.0	1.5	2.0
ND10-3495	2.1	3.0	2.0	2.0	1.5	1.5	2.5
ND10-3600	2.3	4.0	2.0	2.0	2.0	1.5	2.5
ND10-3601	1.9	3.0	2.0	1.0	1.5	1.5	2.5
ND10-3608	2.3	4.0	2.0	2.0	1.5	1.5	2.5
ND10-3610	2.3	4.0	2.0	2.0	1.5	1.5	3.0
OAC 12-19C	1.3	1.0	1.0	1.0	1.5	1.5	2.0
OAC 12-21C	1.6	2.0	2.0	1.0	1.0	1.5	1.9
OAC 12-31C	1.3	1.0	1.0	1.0	1.5	1.5	2.0
OAC 12-44C	1.5	2.0	1.0	1.0	1.5	1.5	2.0

Preliminary Test 0, 2014

Seed Size (g/100)

Strain	Mean 6 Tests	Morris MN	Rosemount MN	Casselton ND	St. Pauls ONT	Woodstock ONT	St. Mathieu de-Beloeil QUE
Sheyenne (0)	17.4	17.6	14.8	14.2	18.2	17.6	22.1
MN1410 (I)	18.3	20.2	15.9	14.1	20.6	17.2	21.7
Surge (L)	21.1	22.8	18.4	19.9	21.3	19.5	24.6
MN0095 (E)	14.8	15.5	12.8	13.4	15.2	14.2	17.4
M08-212033	17.0	16.6	14.5	15.0	19.9	16.1	20.1
M08-218002	17.2	17.6	14.0	14.9	18.9	18.8	19.1
M08-218089	19.4	19.8	16.3	18.0	21.2	18.9	22.4
M08-221060	18.7	18.5	16.0	16.3	21.0	18.0	22.3
M08-224101	18.0	19.3	15.8	16.9	18.4	16.4	21.4
M08-225081	17.1	18.4	13.8	17.5	17.5	15.7	19.7
M08-231043	18.1	18.3	14.3	15.8	20.3	18.7	21.0
M08-337014	19.0	19.3	16.3	17.1	20.2	19.4	21.5
M08-427065	15.8	16.1	13.3	15.0	18.5	14.2	17.6
M08-434013	18.4	20.0	15.3	16.6	19.9	17.3	21.5
M08-434024	18.9	19.5	15.6	15.8	21.4	19.8	21.4
M09-159052	17.4	18.9	15.8	15.1	18.0	16.6	19.8
ND10-2763	15.2	15.6	13.8	15.9	14.9	14.1	17.1
ND10-2769	15.1	16.7	14.2	12.5	15.3	13.8	17.8
ND10-3048	17.3	18.2	15.6	16.1	17.0	16.6	20.1
ND10-3323	17.3	17.5	15.5	15.7	17.0	17.1	20.8
ND10-3419	16.5	16.5	14.4	15.4	17.8	15.6	19.2
ND10-3427	16.5	17.2	14.4	15.1	17.4	15.3	19.5
ND10-3446	16.4	17.1	13.8	14.6	17.1	16.0	19.8
ND10-3449	17.2	17.2	15.8	15.0	17.9	16.9	20.2
ND10-3460	16.2	17.1	13.9	14.6	16.7	15.4	19.4
ND10-3464	16.2	17.3	13.3	13.9	18.5	15.5	18.8
ND10-3473	15.8	16.8	13.3	14.3	18.0	14.2	18.2
ND10-3482	16.1	17.1	13.7	14.4	18.0	15.2	18.3
ND10-3495	15.8	16.9	13.7	14.8	15.9	14.3	18.9
ND10-3600	16.3	17.8	14.3	14.2	17.1	14.4	19.7
ND10-3601	16.2	16.5	13.1	15.6	17.3	15.1	19.5
ND10-3608	16.0	16.9	13.4	14.5	18.2	14.4	18.8
ND10-3610	16.1	17.1	13.8	14.8	17.0	14.8	19.1
OAC 12-19C	18.9	19.8	14.5	17.8	21.2	18.1	22.2
OAC 12-21C	21.0	21.6	15.4	19.2	22.7	20.8	26.0
OAC 12-31C	18.5	18.0	15.6	16.3	21.9	18.4	21.0
OAC 12-44C	18.3	18.4	15.2	16.2	19.2	18.0	22.6

Preliminary Test 0, 2014

Protein (%)

Strain	Mean 6 Tests	Morris MN	Rosemount MN	Casselton ND	St. Pauls ONT*	Woodstock ONT*	St. Mathieu de-Beloeil QUE*
Sheyenne (0)	34.5	34.4	33.9	32.2	36.3	35.6	34.5
MN1410 (I)	35.0	36.1	34.4	32.0	37.5	35.9	34.3
Surge (L)	36.4	37.0	35.9	35.8	37.1	37.1	35.4
MN0095 (E)	35.2	35.0	34.1	33.0	37.5	37.1	34.5
M08-212033	35.8	35.8	35.3	35.2	37.2	34.9	36.3
M08-218002	36.2	35.9	35.0	34.9	37.7	38.5	35.1
M08-218089	36.0	36.6	35.2	34.0	37.4	37.1	35.7
M08-221060	36.9	37.1	35.9	36.2	37.5	37.2	37.1
M08-224101	35.4	36.2	35.5	35.1	36.1	34.5	35.1
M08-225081	35.7	36.6	34.9	34.4	36.6	36.9	34.6
M08-231043	36.3	36.9	36.5	35.6	36.6	36.8	35.7
M08-337014	36.2	36.8	35.7	34.0	37.8	37.2	35.5
M08-427065	34.3	34.2	34.0	33.1	36.4	34.5	33.8
M08-434013	35.7	35.6	34.4	34.0	37.8	38.0	34.4
M08-434024	35.6	36.2	34.3	33.7	37.7	37.1	34.3
M09-159052	36.0	36.1	34.9	34.1	37.9	37.5	35.2
ND10-2763	34.7	35.0	34.7	32.8	36.0	35.6	34.3
ND10-2769	34.7	35.1	34.7	33.5	34.9	35.1	34.7
ND10-3048	34.6	34.4	34.3	33.5	35.7	35.5	34.2
ND10-3323	34.4	34.7	33.8	32.8	35.5	35.1	34.5
ND10-3419	35.9	36.4	35.7	34.0	37.7	36.1	35.8
ND10-3427	36.1	36.5	35.9	33.7	38.4	36.4	35.9
ND10-3446	35.5	34.1	35.3	33.4	37.4	37.1	35.9
ND10-3449	34.9	36.3	34.3	32.7	36.3	36.1	33.7
ND10-3460	36.5	37.3	35.8	34.6	38.5	37.1	35.8
ND10-3464	36.2	37.1	35.7	33.7	38.6	36.3	35.9
ND10-3473	35.9	36.6	36.0	34.6	38.1	33.8	36.3
ND10-3482	36.1	37.0	36.6	33.9	37.8	35.2	36.0
ND10-3495	36.1	36.7	35.8	34.8	37.8	35.4	35.8
ND10-3600	35.8	37.0	36.0	33.9	37.5	35.1	35.6
ND10-3601	36.0	36.6	36.0	33.8	37.9	35.8	36.0
ND10-3608	35.8	36.4	36.0	33.2	37.6	36.0	35.7
ND10-3610	36.2	36.5	36.1	34.9	38.5	34.9	36.5
OAC 12-19C	32.9	32.5	31.6	31.6	34.9	33.8	33.0
OAC 12-21C	34.9	35.7	33.8	32.9	36.2	35.9	34.7
OAC 12-31C	36.5	37.0	35.6	34.7	40.1	36.0	35.8
OAC 12-44C	36.4	36.1	35.4	34.9	38.7	36.9	36.1

*Protein and Oil values converted to 13% moisture basis

Preliminary Test 0, 2014

Oil (%)

Strain	Mean 6 Tests	Morris MN	Rosemount MN	Casselton ND	St. Pauls ONT*	Woodstock ONT*	St. Mathieu de-Beloeil QUE*
Sheyenne (0)	18.5	18.7	18.9	18.1	17.7	18.4	18.9
MN1410 (I)	18.7	18.8	18.8	18.6	17.9	19.0	19.1
Surge (L)	18.3	18.6	18.8	17.6	18.3	17.6	18.7
MN0095 (E)	18.7	19.3	19.7	18.9	17.3	18.2	19.1
M08-212033	18.2	18.6	18.7	17.5	17.7	18.6	17.9
M08-218002	18.4	18.9	19.1	17.5	17.7	17.8	19.1
M08-218089	18.8	18.9	19.5	18.6	18.4	18.4	18.9
M08-221060	17.6	18.3	18.4	16.6	17.4	17.1	17.9
M08-224101	18.6	18.5	19.1	18.3	17.9	18.9	19.1
M08-225081	18.9	18.8	19.8	18.7	18.1	18.8	19.5
M08-231043	17.7	18.4	18.2	17.1	17.1	17.8	17.7
M08-337014	18.1	18.3	18.5	18.4	17.5	17.8	18.4
M08-427065	18.4	18.6	19.2	17.5	17.6	19.1	18.5
M08-434013	18.5	18.8	19.5	18.1	17.6	18.4	18.7
M08-434024	18.4	18.3	19.0	18.5	17.5	18.5	18.7
M09-159052	18.2	18.5	19.1	17.8	17.2	18.0	18.5
ND10-2763	18.7	19.0	19.3	18.4	17.8	18.5	19.1
ND10-2769	18.3	18.7	18.9	17.7	17.7	18.3	18.5
ND10-3048	18.4	19.0	19.0	17.8	17.7	18.4	18.5
ND10-3323	18.5	18.7	19.1	17.7	17.9	18.4	19.0
ND10-3419	18.4	18.3	19.2	18.1	17.4	18.4	18.7
ND10-3427	18.3	18.5	19.3	18.3	17.1	17.8	18.6
ND10-3446	18.5	19.1	19.4	19.0	17.0	18.2	18.6
ND10-3449	18.4	18.6	19.1	17.9	17.9	18.4	18.7
ND10-3460	18.1	18.1	19.1	18.1	17.1	17.7	18.5
ND10-3464	18.1	18.0	18.9	18.5	16.8	18.3	18.3
ND10-3473	18.2	18.3	18.9	17.9	17.1	18.5	18.4
ND10-3482	18.1	18.0	18.8	18.5	17.1	17.7	18.4
ND10-3495	18.2	18.3	19.3	17.8	17.1	18.0	18.4
ND10-3600	18.2	18.2	19.2	18.2	16.9	18.2	18.7
ND10-3601	18.2	18.5	19.4	17.8	16.9	17.9	18.7
ND10-3608	18.4	18.4	19.2	19.0	17.4	17.7	18.4
ND10-3610	18.1	18.4	18.9	17.8	17.0	18.4	18.2
OAC 12-19C	19.1	19.6	19.8	17.8	18.9	19.7	19.1
OAC 12-21C	18.3	18.5	18.6	17.5	17.9	18.5	18.9
OAC 12-31C	18.8	19.2	19.1	18.7	17.6	18.9	19.3
OAC 12-44C	18.1	18.5	18.1	17.9	17.7	18.2	18.1

*Protein and Oil values converted to 13% moisture basis

Uniform Test I, 2014

Ent.	Strain	Parentage	Seed Source	Previous Testing	Gen. Comp.	Unique Traits
1.	MN1410 (I)	Unknown	Orf	9.0	F5	
2.	IA1022 (SCN)	Dairyland 98822 x A00-711024	Fehr	8.0	F5	SCN
3.	Sheyenne (0)	Pioneer 9071 x A96-492041	Helms	7.0	F4	Rps1-c
4.	M06-381085	M97-136016 X PI603290	Orf	13 UT0	F5	Diversity
5.	M07-278122	M00-110002 x Sheyenne	Orf	PTIA	F5	
6.	M08-154007	SD02-906 x U03-100612	Orf	PTIA	F5	
7.	U09-105007	OAC 05-21 x U03-300134	Graef	2.0	F5	Rps, Dt
8.	U09-118017	U01-190311 x U02-242055	Graef	1.0	F4	
9.	U11-907098	U03-100612 x LD02- 7222P	Graef	PTIB	F6	SCN
10.	U11-911079	LD02-4485 x U03-300134	Graef	PTIB	F6	Rps1k, SCN HR NR
11.	U11-913028	OAC 05-17 x LD04-11056	Graef	PTIB	F6	SCN
12.	U11-917032	LD02-4485 x U03-100612	Graef	PTIB	F6	IDC, SCN HR, LR
13.	U11-918019	LD02-4485 x U03-100612	Graef	PTIB	F6	SCN
14.	U11-918052	U03-100612 x LD04-11056	Graef	PTIB	F6	SCN
15.	U11-932025	U06-300952 x U03-100612	Graef	PTIB	F6	IDC
16.	U11-932079	U06-300952 x U03-100612	Graef	PTIB	F6	IDC

Descriptive and Disease Data

Strain	Descriptive Code	Green Stem Score St. Hyancinthe, QUE
MN1410 (I)	PTBDYBrI	0.0
IA1022 (SCN)	P+WTBDYYI	0.0
Sheyenne (0)	PGBDYIbLI	0.0
M06-381085	PGBDYYI	0.0
M07-278122	PGBDYBf+YI	0.0
M08-154007	P+WGTDYYI	0.0
U09-105007	PGBDYYI	0.0
U09-118017	PTTDYYI	0.0
U11-907098	PTBDYGI	0.0
U11-911079	PTBDYBlI	0.0
U11-913028	PTBDYBlI	0.0
U11-917032	PTBDYBlI	0.0
U11-918019	PTBDYBlI	0.0
U11-918052	PTBDYBlI	0.0
U11-932025	WGTDYLbfI	0.0
U11-932079	PTTDYBrI	0.0

Uniform Test I, 2014

Regional Summary

	Yield	Rank	Maturity	Lodging	Plant Height	Seed Quality	Seed Size	Composition	
								Protein	Oil
No. of Tests	11	11	10	10	9	6	8	6	6
Strain	bu/a	No.	Date	Score	In	Score	g/100	(%)	(%)
MN1410 (I)	59.2	13	9/20	1.9	33.8	1.8	19.1	36.3	18.7
IA1022 (SCN)	61.5	10	3.5	1.9	31.3	1.4	17.7	33.7	19.5
Sheyenne (0)	48.5	16	-4.3	1.4	27.8	2.2	17.6	35.3	18.3
M06-381085	56.4	15	0.5	2.2	31.9	1.8	19.9	35.9	18.5
M07-278122	60.8	12	-1.1	1.7	32.5	1.4	16.5	34.2	18.0
M08-154007	58.5	14	0.1	1.6	28.8	2.3	20.9	36.1	19.0
U09-105007	61.7	9	-0.4	1.3	26.1	2.1	17.9	34.3	19.4
U09-118017	62.5	8	4.8	1.5	29.8	1.9	18.2	34.3	19.0
U11-907098	65.7	2	5.3	1.6	31.4	1.3	17.5	34.0	18.6
U11-911079	64.8	3	6.7	1.5	32.1	1.9	14.9	35.0	17.8
U11-913028	62.9	7	2.8	1.7	31.6	2.0	18.1	34.2	19.1
U11-917032	63.5	6	3.3	2.2	30.2	2.1	17.9	34.4	19.0
U11-918019	64.0	5	5.0	1.5	31.1	1.9	17.0	33.4	18.7
U11-918052	61.3	11	2.8	2.0	31.2	2.2	16.6	34.2	19.2
U11-932025	66.1	1	4.5	1.3	29.7	1.7	18.6	35.7	18.5
U11-932079	64.0	4	3.2	1.7	28.3	1.6	18.1	34.5	18.6

122.8 Days After Planting

Uniform Test I, 2014

2013-2014 2-Year Mean

	Yield	Rank	Maturity	Lodging	Plant Height	Seed Quality	Seed Size	Composition	
								Protein	Oil
No. of Tests	18	18	18	14	15	14	16	13	13
Strain	bu/a	No.	Date	Score	In	Score	g/100	%	%
MN1410 (I)	58.8	4	9/19	1.8	32.9	1.9	18.2	36.3	18.7
IA1022 (SCN)	61.2	2	4.0	1.8	31.1	1.6	17.0	33.7	19.5
Sheyenne (0)	48.3	5	-4.7	1.3	28.0	2.1	17.0	35.3	18.3
U09-105007	61.0	3	0.7	1.2	29.7	1.9	18.0	34.3	19.4
U09-118017	62.2	1	4.7	1.3	29.7	1.8	17.7	34.3	19.0

121.9 Days After Planting

Uniform Test I, 2014

Yield (bu/a)

Strain	Mean 11 Tests	Ames IA	Kanawha IA	Lafayette IN	Wanatah IN	Ingham MI	Saginaw MI
MN1410 (I)	61.8	62.3	43.3	50.6	55.7	61.5	74.3
IA1022 (SCN)	63.1	65.8	41.9	47.7	58.8	57.7	75.2
Sheyenne (0)	48.8	53.1	33.6	38.9	47.3	53.3	64.8
M06-381085	56.8	60.6	41.8	50.6	48.5	49.6	61.5
M07-278122	58.8	57.1	41.9	55.2	51.4	65.4	75.4
M08-154007	56.8	61.4	43.0	50.3	56.1	60.7	67.8
U09-105007	61.5	62.0	46.6	42.7	53.3	47.5	70.2
U09-118017	64.4	66.5	42.8	55.7	55.0	56.3	65.8
U11-907098	66.4	57.8	51.0	59.3	70.3	61.5	66.1
U11-911079	63.3	62.1	42.3	57.7	68.3	55.7	73.8
U11-913028	61.8	57.9	45.9	48.4	54.8	55.2	64.5
U11-917032	64.3	68.2	47.9	58.4	64.0	58.5	73.4
U11-918019	63.8	56.4	43.5	56.4	62.6	60	68.4
U11-918052	59.2	55.6	46.7	54.4	57.2	50.4	67.1
U11-932025	66.6	69.5	45.1	58.4	56.5	50.2	68.3
U11-932079	64.1	61.9	41.6	55.9	58.2	52.9	64.7
Location Mean		61.1	43.7	52.5	57.4	56.0	68.8
C.V. (%)		5.3	6.6	13.2	13.2	9.7	3.1
L.S.D. (5%)		7	6.1	7.8	8.7	14.2	5.6
Row Sp (In.)		27	30	30	30	15	15
Rows/Plot		4	4	4	4	6	6
Reps		2	2	3	3	2	2

Uniform Test I, 2014

Yield (bu/a)

Strain	Cotesfield NE	Hooper NE	Phillips NE	Ridgetown ONT	St. Hyacinthe QUE
MN1410 (I)	72.8	66.2	74.4	54.4	63.9
IA1022 (SCN)	76.6	72.6	83.2	58.5	55.9
Sheyenne (0)	26.1	49.4	69.5	42.4	58.3
M06-381085	71.4	65.2	73	47	55.1
M07-278122	46.1	61.1	79.5	52.6	61.1
M08-154007	56.5	58.1	68.8	47.6	54.3
U09-105007	65.7	79.1	98	54.2	57.5
U09-118017	90.5	74.8	89.9	58.3	53.3
U11-907098	87.1	76	88.3	59.8	53.1
U11-911079	75.8	76.4	80.4	59.1	44.9
U11-913028	73.3	77.4	91.9	58.3	52.3
U11-917032	70.8	77.9	84.2	50	54.1
U11-918019	86.8	75.9	95	45.9	50.8
U11-918052	70.5	76.2	75.9	48.7	48.5
U11-932025	94.6	81.3	96.1	56.2	56.7
U11-932079	84.1	83.2	94.8	53.3	54.6
Location Mean	71.8	71.9	83.9	52.9	54.7
C.V. (%)	9.1	5.9	6.1	10.9	6.9
L.S.D. (5%)	16.1	10.4	12.7	8.0	6.3
Row Sp (In.)	30	30	30	17	14
Rows/Plot	4	4	4	5	4
Reps	2	2	2	3	3

Uniform Test I, 2014

Yield Rank

Strain	Yield Rank 11 Tests	Ames IA	Kanawha IA	Lafayette IN	Wanatah IN	Ingham MI	Saginaw MI
MN1410 (I)	9	5	8	10	10	2	3
IA1022 (SCN)	6	4	12	14	5	7	2
Sheyenne (0)	16	16	16	16	16	11	13
M06-381085	15	10	14	11	15	15	16
M07-278122	12	13	12	8	14	1	1
M08-154007	14	9	9	12	9	4	9
U09-105007	11	7	4	15	13	16	6
U09-118017	3	3	10	7	11	8	12
U11-907098	1	12	1	1	1	3	11
U11-911079	7	6	11	4	2	9	4
U11-913028	10	11	5	13	12	10	15
U11-917032	4	2	2	3	3	6	5
U11-918019	8	14	7	5	4	5	7
U11-918052	13	15	3	9	7	13	10
U11-932025	2	1	6	2	8	14	8
U11-932079	5	8	15	6	6	12	14

Uniform Test I, 2014

Yield Rank

Strain	Cotesfield NE	Hooper NE	Phillips NE	Ridgetown ONT	St. Hyacinthe QUE
MN1410 (I)	9	12	13	7	1
IA1022 (SCN)	6	11	9	3	6
Sheyenne (0)	16	16	15	16	3
M06-381085	10	13	14	14	7
M07-278122	15	14	11	10	2
M08-154007	14	15	16	13	9
U09-105007	13	3	1	8	4
U09-118017	2	10	6	4	11
U11-907098	3	8	7	1	12
U11-911079	7	6	10	2	16
U11-913028	8	5	5	5	13
U11-917032	11	4	8	11	10
U11-918019	4	9	3	15	14
U11-918052	12	7	12	12	15
U11-932025	1	2	2	6	5
U11-932079	5	1	4	9	8

Uniform Test I, 2014

Maturity (date)

Strain	Mean 10 Tests	Ames IA	Kanawha IA	Lafayette IN	Wanatah IN	Ingham MI	Saginaw MI
MN1410 (I)	9/20	9/20	9/24	9/9	9/20	9/26	.
IA1022 (SCN)	3.5	5	3	3	5	3	.
Sheyenne (0)	-4.3	-10	-4	0	-5	-5	.
M06-381085	0.5	-1	1	3	0	-2	.
M07-278122	-1.1	-1	-1	0	-3	-2	.
M08-154007	0.1	-2	3	8	1	-1	.
U09-105007	-0.4	-2	-3	2	-1	-3	.
U09-118017	4.8	5	9	10	9	2	.
U11-907098	5.3	3	6	9	8	7	.
U11-911079	6.7	7	12	11	9	7	.
U11-913028	2.8	0	4	8	5	0	.
U11-917032	3.3	5	4	8	5	2	.
U11-918019	5.0	6	6	11	8	4	.
U11-918052	2.8	2	5	6	4	1	.
U11-932025	4.5	4	5	9	7	5	.
U11-932079	3.2	2	2	9	7	2	.
Date Planted	5/21	5/18	5/20	5/26	5/30	6/10	5/29
Days To Mature	122.8	125.0	127.0	106.0	113.0	108.0	.

Uniform Test I, 2014

Maturity (date)

Strain	Lamberton MN	Cotesfield NE	Hooper NE	Phillips NE	Ridgetown ONT	St. Hyacinthe QUE
MN1410 (I)	10/2	.	9/14	9/14	9/21	9/28
IA1022 (SCN)	-3	.	3	2	7	1
Sheyenne (0)	-6	.	-6	-2	-7	-1
M06-381085	-5	.	-1	-2	5	-1
M07-278122	0	.	0	-1	-2	-1
M08-154007	-2	.	0	-2	-5	-2
U09-105007	1	.	1	1	-1	-2
U09-118017	-6	.	2	2	3	1
U11-907098	-4	.	6	3	4	2
U11-911079	0	.	5	3	4	2
U11-913028	-1	.	2	4	2	-2
U11-917032	-4	.	2	1	2	1
U11-918019	-1	.	2	4	3	2
U11-918052	-4	.	2	1	4	0
U11-932025	2	.	6	2	3	2
U11-932079	6	.	2	1	0	2
Date Planted	5/15	5/17	5/19	5/20	5/29	5/31
Days To Mature	140.0	.	122.0	122	129	136

Uniform Test I, 2014

Lodging (score)

Strain	Mean 10 Tests	Ames IA	Kanawha IA	Lafayette IN	Wanatah IN	Ingham MI
MN1410 (I)	1.9	2.3	2.0	1.8	2.0	3.0
IA1022 (SCN)	1.9	2.8	2.0	1.3	1.3	3.0
Sheyenne (0)	1.4	1.8	1.5	1.5	2.2	2.5
M06-381085	2.2	2.3	2.3	2.2	2.0	4.5
M07-278122	1.7	2.0	2.0	1.5	1.7	2.5
M08-154007	1.6	1.8	1.8	1.5	2.7	2.5
U09-105007	1.3	2.0	2.0	1.0	1.0	1.5
U09-118017	1.5	2.3	2.0	1.2	1.2	2.0
U11-907098	1.6	2.5	2.3	1.3	1.0	2.0
U11-911079	1.5	2.0	2.0	1.0	1.0	2.0
U11-913028	1.7	2.5	2.0	1.3	1.5	2.5
U11-917032	2.2	3.0	2.3	1.5	2.0	3.5
U11-918019	1.5	2.0	2.0	1.2	1.3	2.5
U11-918052	2.0	2.8	2.5	1.3	2.0	3.5
U11-932025	1.3	2.3	1.8	1.0	1.3	1.5
U11-932079	1.7	2.3	2.5	1.0	1.5	2.5

Plant Height (inches)

Strain	Mean 9 Tests	Ames IA	Kanawha IA	Lafayette IN	Wanatah IN	Ingham MI
MN1410 (I)	33.8	34.0	26.5	32.3	31.3	33.0
IA1022 (SCN)	31.3	32.5	22.5	29.3	28.0	32.0
Sheyenne (0)	27.8	30.5	20.0	26.7	26.3	25.0
M06-381085	31.9	33.5	24.5	31.7	30.0	34.0
M07-278122	32.5	33.5	24.5	32.3	28.0	31.0
M08-154007	28.8	34.0	22.0	31.0	25.7	29.0
U09-105007	26.1	29.0	20.5	24.3	24.7	22.0
U09-118017	29.8	32.0	22.5	29.0	26.0	28.0
U11-907098	31.4	33.5	26.0	29.3	27.7	30.0
U11-911079	32.1	38.0	26.5	31.3	29.0	28.0
U11-913028	31.6	33.5	24.5	32.3	28.7	29.0
U11-917032	30.2	33.0	25.0	28.0	25.3	28.0
U11-918019	31.1	35.0	24.5	31.3	28.7	29.0
U11-918052	31.2	32.0	26.5	31.3	28.0	29.0
U11-932025	29.7	34.0	23.5	28.0	24.7	25.0
U11-932079	28.3	29.5	22.0	27.7	24.3	27.0

Uniform Test I, 2014

Lodging (score)

Strain	Lamberton MN	Hooper NE	Phillips NE	Ridgetown ONT	St. Hyacinthe QUE
MN1410 (I)	2.0	1.3	1.3	2.5	1.0
IA1022 (SCN)	2.0	1.5	1.5	1.4	1.7
Sheyenne (0)	1.0	1.0	1.0	1.0	1.0
M06-381085	1.0	1.3	1.5	2.9	2.0
M07-278122	2.0	1.0	1.0	1.9	1.0
M08-154007	2.0	1.0	1.0	1.3	1.0
U09-105007	1.0	1.0	1.0	1.4	1.0
U09-118017	1.0	1.3	1.3	1.9	1.3
U11-907098	2.0	1.8	1.3	1.4	1.0
U11-911079	2.0	1.5	1.0	1.7	1.0
U11-913028	2.0	1.5	1.3	1.6	1.0
U11-917032	2.0	2.0	1.5	2.1	2.0
U11-918019	1.0	1.5	1.3	1.7	1.0
U11-918052	2.0	2.0	1.0	1.5	1.3
U11-932025	1.0	1.3	1.0	1.4	1.0
U11-932079	2.0	1.3	1.0	1.0	1.7

Plant Height (inches)

Strain	Lamberton MN	Phillips NE	Ridgetown ONT	St. Hyacinthe QUE
MN1410 (I)	32.0	35.5	42.7	36.7
IA1022 (SCN)	31.0	35.0	35.8	35.6
Sheyenne (0)	26.0	29.3	34.3	32.3
M06-381085	23.0	32.0	39.9	38.2
M07-278122	31.0	34.5	41.2	36.4
M08-154007	23.0	28.5	33.1	32.7
U09-105007	25.0	27.0	33.7	28.2
U09-118017	29.0	31.3	36.2	33.9
U11-907098	30.0	33.5	37.3	35.4
U11-911079	29.0	37.0	36.7	32.9
U11-913028	29.0	33.8	39.4	34.3
U11-917032	28.0	31.0	38.8	34.3
U11-918019	27.0	33.0	37.1	34.4
U11-918052	31.0	34.0	32.7	36.4
U11-932025	31.0	31.0	36.7	33.4
U11-932079	26.0	30.0	37.7	30.4

Uniform Test I, 2014

Seed Quality (score)

Strain	Mean 6 Tests	Kanawha IA	Lafayette IN	Wanatah IN	Phillips NE	Ridgetown ONT	St. Hyacinthe QUE
MN1410 (I)	1.8	2.0	1.0	1.0	2.0	2.1	2.5
IA1022 (SCN)	1.4	1.0	1.0	1.0	2.0	1.4	2.0
Sheyenne (0)	2.2	3.0	2.0	3.0	2.0	1.7	1.5
M06-381085	1.8	1.0	2.0	2.0	2.0	1.2	2.5
M07-278122	1.4	1.0	1.0	1.0	2.0	1.3	2.0
M08-154007	2.3	2.0	2.0	3.0	2.0	1.1	3.5
U09-105007	2.1	2.0	2.0	2.0	2.0	1.1	3.5
U09-118017	1.9	2.0	2.0	2.0	2.0	1.0	2.5
U11-907098	1.3	1.0	1.0	1.0	2.0	1.1	2.0
U11-911079	1.9	2.0	2.0	1.0	2.0	1.3	3.0
U11-913028	2.0	2.0	2.0	2.0	2.0	1.6	2.5
U11-917032	2.1	1.0	2.0	2.0	2.0	1.4	4.0
U11-918019	1.9	1.0	2.0	2.0	2.0	1.3	3.0
U11-918052	2.2	2.0	2.0	2.0	2.0	1.1	4.0
U11-932025	1.7	1.0	1.0	2.0	2.0	1.5	2.5
U11-932079	1.6	2.0	1.0	1.0	2.0	1.6	2.0

Seed Size (g/100)

Strain	Mean 8 Tests	Ames IA	Kanawha IA	Lafayette IN	Wanatah IN	Ingham MI	Phillips NE	Ridgetown ONT	St. Hyacinthe QUE
MN1410 (I)	19.1	18.5	15.7	13.2	16.4	33.0	21.2	19.1	15.7
IA1022 (SCN)	17.7	18.3	14.2	11.8	15.4	32.0	18.0	17.2	14.5
Sheyenne (0)	17.6	18.6	15.6	13.9	16.6	25.0	19.2	17.5	14.4
M06-381085	19.9	19.6	15.8	14.4	17.3	34.0	20.0	20.5	17.3
M07-278122	16.5	15.5	13.8	11.7	13.4	31.0	17.6	16.2	12.7
M08-154007	20.9	21.4	18.2	16.6	19.8	29.0	23.6	20.2	18.0
U09-105007	17.9	18.3	15.9	13.4	16.3	22.0	22.1	18.6	16.5
U09-118017	18.2	19.1	14.2	13.4	17.4	28.0	19.9	18.8	14.9
U11-907098	17.5	16.8	14.0	12.2	16.7	30.0	19.6	17.1	13.7
U11-911079	14.9	14.5	11.3	10.2	13.6	28.0	15.7	14.8	11.2
U11-913028	18.1	17.0	15.0	12.6	15.9	29.0	20.5	19.7	14.9
U11-917032	17.9	18.3	13.9	12.2	16.4	28.0	20.2	19.4	15.1
U11-918019	17.0	16.7	12.4	12.5	16.2	29.0	18.2	17.1	13.8
U11-918052	16.6	15.9	13.8	11.2	15.4	29.0	18.0	15.8	13.5
U11-932025	18.6	20.0	14.8	15.2	17.1	25.0	20.9	19.5	16.1
U11-932079	18.1	18.3	14.1	13.7	17.9	27.0	20.3	18.3	15.2

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Protein (%)

Strain	Mean 6 Tests	Ames IA	Lafayette IN	Ingham MI	Phillips NE	Ridgetown ONT*	St. Hyacinthe QUE*
MN1410 (I)	36.3	36.2	35.2	36.8	37.2	38.8	33.3
IA1022 (SCN)	33.7	34.9	33.5	34.1	34.3	34.7	30.8
Sheyenne (0)	35.3	36.1	35.3	35.4	36.3	37.1	31.8
M06-381085	35.9	35.9	35.7	36.5	35.1	38.3	34.2
M07-278122	34.2	34.2	34.1	34.7	34.4	36.4	31.6
M08-154007	36.1	36.7	35.5	36.2	37.1	37.3	33.7
U09-105007	34.3	34.5	34.1	35.1	35.3	35.8	30.8
U09-118017	34.3	34.5	34.9	35.2	34.2	35.5	31.7
U11-907098	34.0	34.1	32.8	35.2	35.3	35.0	31.6
U11-911079	35.0	35.1	34.4	35.4	35.3	36.5	33.1
U11-913028	34.2	35.1	33.9	34.8	34.6	35.8	31.2
U11-917032	34.4	34.3	32.8	35.5	35.1	36.4	32.5
U11-918019	33.4	33.2	32.9	34.5	33.2	35.1	31.6
U11-918052	34.2	34.1	33.8	35.5	34.7	34.8	32.5
U11-932025	35.7	35.5	35.9	36.0	35.4	37.0	34.1
U11-932079	34.5	34.9	32.9	35.3	35.0	36.1	32.6

*Protein and Oil values converted to 13% moisture basis

Oil (%)

Strain	Mean 6 Tests	Ames IA	Lafayette IN	Ingham MI	Phillips NE	Ridgetown ONT*	St. Hyacinthe QUE*
MN1410 (I)	18.7	19.0	19.4	18.6	18.7	17.9	18.4
IA1022 (SCN)	19.5	19.7	20.1	19.1	19.8	19.7	18.6
Sheyenne (0)	18.3	18.6	18.9	18.2	18.8	17.7	17.8
M06-381085	18.5	19.1	19.2	18.5	19.4	17.7	17.0
M07-278122	18.0	18.5	18.4	17.9	18.6	17.5	17.4
M08-154007	19.0	19.3	19.9	18.9	19.2	18.4	18.3
U09-105007	19.4	19.5	19.8	19.2	19.6	19.4	19.0
U09-118017	19.0	19.7	19.7	18.4	19.8	18.9	17.6
U11-907098	18.6	19.1	20.0	17.7	19.0	18.8	17.1
U11-911079	17.8	18.3	18.8	17.4	18.1	17.7	16.6
U11-913028	19.1	19.3	19.9	18.9	19.3	19.1	18.1
U11-917032	19.0	19.4	20.6	18.3	19.4	18.8	17.7
U11-918019	18.7	19.1	19.9	18.2	19.3	18.8	16.9
U11-918052	19.2	19.8	20.3	18.4	19.6	19.6	17.7
U11-932025	18.5	19.1	19.3	18.2	19.1	18.3	17.2
U11-932079	18.6	19.0	20.1	18.0	19.0	18.1	17.4

*Protein and Oil values converted to 13% moisture basis

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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.	AR12-128006	AR06-264007 x Golden Harvest 24040	Cianzio	F4	IDC
5.	AR12-228090	AR05-250110 x Golden Harvest H-2285	Cianzio	F4	PR
6.	AR13-132025	AR05-250110 x Golden Harvest H-2285	Cianzio	F4	PR
7.	AR13-132036	AR06-264007 x Golden Harvest H-2285	Cianzio	F4	PR
8.	AR13-132037	AR06-264007 x Golden Harvest H-2285	Cianzio	F4	PR
9.	AR13-132061	Syngenta 06NB199520 x IAR2101 SCN	Cianzio	F4	
10.	AW12-701034	IA2096 x NuTech 83Y36-C	Fehr	F4	1% linolenic
11.	AW12-701044	IA2096 x Syngenta 05RM926125	Fehr	F4	1% linolenic
12.	M08-144103	MN0307SP x HENDRICKS	Orf	F5	
13.	M08-207033	MN0107 x LD05-16413	Orf	F5	
14.	M08-224032	M01-242042 x MN1013	Orf	F5	DIVERSITY
15.	M08-391087	SHEYENNE x M02-141020	Orf	F5	
16.	M08-608002	R01-52F x MN0094SP	Orf	F5	
17.	M08-608051	R01-52F x MN0094SP	Orf	F5	
18.	M08-609011	R02-6268F x MN0107	Orf	F5	
19.	M09-169049	MN1410 x SIMONIDA SP	Orf	F5	
20.	OAC 12-61C	Colby x OAC 05-30	Rajcan	F5	
21.	OAC 12-66C	OAC 05-30 x SeCan 05-33	Rajcan	F5	
22.	OAC 12-86C	OAC 01-26 x A05-112034	Rajcan	F5	
23.	OAC 12-98C	SeCan 05-33 x Katrina	Rajcan	F5	
24.	OAC 12-107C-HO	OAC Wallace x OAC Glencoe	Rajcan	F5	High oil
25.	ORC 7612N	Katrina x A04-543037	Eskandari	F6	SCN
26.	U11-227016	LD02-4485 x U03-100612	Graef	F5	SCN, Rps1k
27.	U11-230030	U02-242055 x U98-311442	Graef	F5	Rpsk1, SCN
28.	U12-905062	MN1410 x K07-1544	Graef	F4	Rps1k, BSR
29.	U12-911082	CL05-32415 x U07-336229	Graef	F4	SCN, IDC
30.	U12-912090	CL05-32415 x U07-336229	Graef	F4	SCN, IDC
31.	U12-916003	MN1410 x U05-226055	Graef	F4	RPS1k, BSR
32.	U12-918010	MN1410 x U05-226055	Graef	F4	Rps1k, BSR
33.	U12-919011	MN1410 x U05-226055	Graef	F4	RPS1k, BSR
34.	U12-920016	MN1410 x U07-336229	Graef	F4	Rps1k, BSR, IDC
35.	U12-921005	U06-206737 x U00-409006	Graef	F4	Oil, White mold
36.	U12-921014	U06-206737 x U00-409006	Graef	F4	Oil, White mold
37.	U12-921087	MN1410 x LD04-13265	Graef	F4	RPS1k, BSR, SCN
38.	U12-921088	MN1410 x LD04-13265	Graef	F4	Rps1k, BSR, SCN
39.	U12-922059	U06-206737 x U00-409006	Graef	F4	Oil, White mold

Preliminary Test I, 2014

Descriptive and Disease Data

Strain	Descriptive Code	FE Chlorosis Score Minnesota	Green Stem Score St. Hyancinthe, QUE
MN1410 (I)	WGBDYBfI	3.1	0.0
IA1022 (SCN)	PGTSYYI	2.7	0.0
Sheyenne (0)	PGBDYYI	2.4	0.0
AR12-128006	PTTDYBlI	2.3	0.0
AR12-228090	PTBDYBlI	2.4	0.0
AR13-132025	PTBDYBlI	2.5	0.0
AR13-132036	PTBDYBlI	2.7	0.0
AR13-132037	PGBDYIbI	2.6	0.0
AR13-132061	PGBDYIbI	2.4	0.0
AW12-701034	P+WTBIYBlI	2.8	0.0
AW12-701044	WTBDYBlI	2.9	0.0
M08-144103	WT+GBDYYI	2.2	0.0
M08-207033	PGBDYYI	2.7	0.0
M08-224032	PGTIYYI	2.7	0.0
M08-391087	PGTDYBfI	2.6	0.0
M08-608002	PT+GTDYBlI	2.8	0.0
M08-608051	WGTDYBfI	3.1	0.3
M08-609011	WT+GTDYLbI	2.6	0.0
M09-169049	WGBDYBfI	3.6	0.3
OAC 12-61C	PTBDYYI	2.2	0.0
OAC 12-66C	PTBDYYI	3.3	0.0
OAC 12-86C	PGBDYYI	2.9	0.0
OAC 12-98C	PTBIYYI	2.7	0.0
OAC 12-107C-HO	PTBDYBrI	2.4	0.0
ORC 7612N	WTTIYYI	3.2	0.0
U11-227016	PTBDYBrI	2.5	0.3
U11-230030	WGBDYYI	2.4	0.0
U12-905062	WG+TBDYBfI	2.9	0.3
U12-911082	PTTDYBlI	2.8	0.3
U12-912090	PTBDYBlI	2.7	0.7
U12-916003	WTBDYBlI	3.0	0.0
U12-918010	WGBDYBfI	2.7	0.3
U12-919011	WGBDYBfI	3.5	0.0
U12-920016	PGBDYIbI	2.4	0.0
U12-921005	PGBDYIbI	3.2	0.0
U12-921014	WTBIYLblI	3.4	0.0
U12-921087	PTTDYBlI	3.4	0.0
U12-921088	PGTDYBfI	3.2	0.0
U12-922059	PGBDYGI	3.0	0.0

Preliminary Test I, 2014

Regional Summary

	Yield	Rank	Maturity	Lodging	Plant Height	Seed Quality	Seed Size	Composition	
								Protein	Oil
No. of Tests	9	9	8	8	7	6	7	6	6
Strain	bu/a	No.	Date	Score	In	Score	g/100	%	%
MN1410 (I)	60.4	25	9/21	2.0	34.2	2.0	17.5	36.1	18.6
IA1022 (SCN)	60.9	22	2.9	1.9	31.7	1.6	15.9	33.7	19.3
Sheyenne (0)	46.7	37	-4.9	1.3	28.3	2.1	16.6	35.2	18.3
AR12-128006	60.4	24	0.4	1.7	31.5	2.1	17.5	36.4	18.4
AR12-228090	61.7	18	0.9	1.6	33.0	1.8	18.5	35.3	18.0
AR13-132025	62.7	16	4.4	2.4	36.0	2.1	16.3	34.3	17.8
AR13-132036	64.8	7	5.1	1.9	34.6	2.0	16.5	35.4	18.3
AR13-132037	68.2	1	4.3	2.1	34.9	1.9	16.7	35.9	17.8
AR13-132061	62.9	14	1.6	1.5	34.5	2.0	17.3	34.5	18.3
AW12-701034	61.2	21	5.1	1.8	32.4	1.7	13.9	35.0	17.6
AW12-701044	66.6	4	6.3	1.3	32.2	1.7	14.7	35.3	17.7
M08-144103	46.3	38	-2.9	1.9	28.5	2.3	19.4	36.6	18.6
M08-207033	51.7	33	1.8	2.5	34.0	2.0	17.3	35.6	18.5
M08-224032	48.7	36	-2.1	1.3	31.2	1.4	17.7	35.5	19.0
M08-391087	58.4	29	1.4	1.4	34.6	1.8	18.9	36.5	18.1
M08-608002	43.6	39	-2.4	1.8	26.6	2.6	18.7	37.0	18.2
M08-608051	52.1	32	8.8	1.9	36.5	2.2	19.4	36.2	18.1
M08-609011	51.6	34	-0.1	1.9	33.7	2.0	15.0	35.5	17.8
M09-169049	49.9	35	2.6	2.0	34.4	2.9	16.9	36.1	17.9
OAC 12-61C	64.8	6	1.4	1.8	33.4	1.4	17.2	34.2	18.8
OAC 12-66C	59.0	27	-2.6	1.7	28.7	1.5	18.2	35.4	18.6
OAC 12-86C	66.7	3	4.2	1.7	33.6	1.8	18.6	36.5	17.7
OAC 12-98C	58.6	28	1.2	1.7	33.1	1.6	18.7	35.5	18.6
OAC 12-107C-HO	60.0	26	3.8	1.9	36.6	2.2	16.8	33.5	19.4
ORC 7612N	55.2	31	0.9	1.8	32.3	1.4	19.0	35.4	18.2
U11-227016	62.9	13	6.3	1.7	33.9	2.0	14.8	34.9	18.3
U11-230030	62.8	15	4.3	1.6	34.4	1.8	16.8	34.0	19.0
U12-905062	67.3	2	8.1	1.8	36.2	1.9	16.9	35.0	18.5
U12-911082	61.3	20	7.9	1.3	34.1	1.8	17.7	36.5	18.1
U12-912090	63.4	11	10.5	1.8	39.9	1.9	17.7	34.6	18.5
U12-916003	63.5	10	8.6	2.2	38.6	2.3	16.1	35.4	18.4
U12-918010	64.2	8	4.7	1.8	36.5	2.0	15.9	35.5	18.3
U12-919011	61.6	19	5.9	2.9	37.8	2.0	16.3	35.2	18.5
U12-920016	56.1	30	0.8	1.8	37.4	2.3	18.4	35.9	18.7
U12-921005	63.3	12	2.8	1.9	30.3	2.3	20.2	35.0	19.0
U12-921014	60.8	23	5.7	1.8	28.9	2.1	16.9	35.4	18.9
U12-921087	62.5	17	2.0	1.8	34.8	2.0	16.7	35.0	18.5
U12-921088	63.6	9	1.9	1.7	36.1	2.2	15.2	35.2	18.1
U12-922059	66.3	5	5.2	1.9	34.6	1.7	19.0	35.2	19.0

119.4 Days After Planting

Preliminary Test I, 2014

Yield (bu/acre)

Strain	Mean 9 Tests	Kanawha IA	Lafayette IN	Ingham MI	Lamberton MN
MN1410 (I)	60.4	46.9	50.7	53.2	53.4
IA1022 (SCN)	60.9	46.1	50.7	56.3	50.5
Sheyenne (0)	46.7	36.8	45.3	49.0	41.7
AR12-128006	60.4	47.6	50.0	56.1	54.7
AR12-228090	61.7	54.2	49.7	54.5	60.6
AR13-132025	62.7	45.5	55.2	50.6	62.6
AR13-132036	64.8	47.1	55.3	53.9	54.8
AR13-132037	68.2	49.1	55.8	54.5	59.6
AR13-132061	62.9	50.7	55.4	60.5	48.2
AW12-701034	61.2	45.4	53.9	43.9	60.6
AW12-701044	66.6	46.2	48.0	58.1	56.9
M08-144103	46.3	39.6	47.5	47.9	41.0
M08-207033	51.7	38.0	51.2	48.0	44.2
M08-224032	48.7	39.0	45.6	46.4	46.3
M08-391087	58.4	39.2	55.1	52.7	56.7
M08-608002	43.6	30.5	35.3	43.8	39.5
M08-608051	52.1	44.5	43.9	39.0	46.5
M08-609011	51.6	41.0	44.6	47.6	46.9
M09-169049	49.9	34.5	44.6	31.8	40.6
OAC 12-61C	64.8	44.6	53.9	62.6	58.7
OAC 12-66C	59.0	38.7	58.3	60.7	48.8
OAC 12-86C	66.7	46.4	61.3	56.5	53.7
OAC 12-98C	58.6	44.2	45.7	49.4	48.9
OAC 12-107C-HO	60.0	40.2	53.1	56.4	53.2
ORC 7612N	55.2	45.1	48.3	49.0	43.9
U11-227016	62.9	47.8	49.3	46.6	53.1
U11-230030	62.8	45.6	62.2	46.5	54.2
U12-905062	67.3	48.4	57.9	54.9	54.6
U12-911082	61.3	41.1	52.2	52.1	52.0
U12-912090	63.4	48.8	58.4	52.9	52.7
U12-916003	63.5	45.4	54.8	53.6	62.3
U12-918010	64.2	50.4	48.4	52.6	53.5
U12-919011	61.6	48.0	57.4	47.4	63.7
U12-920016	56.1	42.5	45.5	45.0	44.0
U12-921005	63.3	47.8	44.9	56.7	57.1
U12-921014	60.8	40.0	44.3	52.5	51.3
U12-921087	62.5	48.5	47.7	52.8	55.7
U12-921088	63.6	49.7	51.1	48.7	51.7
U12-922059	66.3	47.5	52.3	54.3	57.4
Location Mean		44.4	50.9	51.3	52.2
C.V. (%)		12.0	14.6	7.8	12.7
L.S.D. (5%)		10.8	13.8	9.7	13.4
Row Sp (In.)		30	30	15	30
Rows/Plot		4	4	6	2
Reps		2	2	2	2

Preliminary Test I, 2014

Yield (bu/acre)

Strain	Cotesfield NE	Hooper NE	Phillips NE	Ridgetown ONT	St. Hyancinthe QUE
MN1410 (I)	68.8	63.2	83.4	49.9	60.7
IA1022 (SCN)	70.1	70.0	84.2	53.3	52.0
Sheyenne (0)	24.4	43.8	71.0	45.2	53.1
AR12-128006	72.9	68.5	81.7	52.8	46.7
AR12-228090	70.3	61.7	93.2	55.3	48.1
AR13-132025	82.3	69.9	88.2	41.0	51.6
AR13-132036	95.0	69.2	86.0	58.7	45.4
AR13-132037	88.5	85.7	100.3	51.0	50.3
AR13-132061	74.1	64.8	87.1	60.0	53.3
AW12-701034	84.2	65.0	87.3	59.0	35.7
AW12-701044	98.8	76.4	93.4	54.1	46.9
M08-144103	27.7	54.8	66.4	34.8	50.4
M08-207033	38.9	63.3	77.0	41.7	49.6
M08-224032	29.7	51.3	73.5	47.2	49.6
M08-391087	51.3	65.2	80.8	54.3	50.9
M08-608002	34.7	47.6	60.4	36.2	51.0
M08-608051	49.1	60.0	84.8	45.1	48.2
M08-609011	44.9	58.2	73.9	47.4	49.5
M09-169049	55.5	58.5	75.3	42.3	51.0
OAC 12-61C	67.8	69.6	89.9	54.0	61.9
OAC 12-66C	43.4	68.5	81.2	52.9	58.0
OAC 12-86C	78.9	78.4	91.7	59.0	54.4
OAC 12-98C	54.2	69.8	84.4	59.8	56.9
OAC 12-107C-HO	54.8	62.4	82.8	62.4	54.8
ORC 7612N	51.0	64.2	74.2	53.1	57.9
U11-227016	88.8	72.9	91.7	55.7	45.3
U11-230030	84.7	73.3	88.1	46.7	46.3
U12-905062	76.9	79.5	91.5	68.3	55.0
U12-911082	81.1	66.6	82.9	64.9	38.8
U12-912090	80.8	72.8	90.0	56.0	43.4
U12-916003	78.0	66.7	90.4	51.7	50.6
U12-918010	76.6	76.4	90.5	61.6	54.0
U12-919011	69.9	76.2	62.2	59.0	57.0
U12-920016	68.9	75.0	82.2	37.0	51.6
U12-921005	72.4	70.7	95.3	57.0	52.6
U12-921014	72.3	68.6	93.9	55.1	48.7
U12-921087	78.5	71.9	87.6	56.5	49.5
U12-921088	82.9	77.6	82.8	58.9	55.3
U12-922059	90.6	72.5	99.1	51.1	53.1
Location Mean	67.0	67.5	84.1	52.6	51.0
C.V. (%)	7.5	10.0	8.4	9.2	6.7
L.S.D. (5%)	12.6	16.7	17.5	8.2	5.6
Row Sp (In.)	30	30	30	17	14
Rows/Plot	4	4	4	5	4
Reps	2	2	2	2	3

Preliminary Test I, 2014

Yield Rank

Strain	Yield Rank 9 Tests	Kanawha IA	Lafayette IN	Ingham MI	Lamberton MN
MN1410 (I)	25	15	20	15	19
IA1022 (SCN)	22	18	21	8	26
Sheyenne (0)	37	37	33	24	36
AR12-128006	24	12	22	9	14
AR12-228090	18	1	23	11	4
AR13-132025	16	20	10	22	2
AR13-132036	7	14	9	13	13
AR13-132037	1	5	7	11	6
AR13-132061	14	2	8	3	29
AW12-701034	21	21	13	34	4
AW12-701044	4	17	27	4	10
M08-144103	38	32	29	27	37
M08-207033	33	36	18	26	33
M08-224032	36	34	31	32	32
M08-391087	29	33	11	18	11
M08-608002	39	39	39	35	39
M08-608051	32	25	38	36	31
M08-609011	34	29	35	28	30
M09-169049	35	38	36	37	38
OAC 12-61C	6	24	14	1	7
OAC 12-66C	27	35	4	2	28
OAC 12-86C	3	16	2	6	17
OAC 12-98C	28	26	30	23	27
OAC 12-107C-HO	26	30	15	7	20
ORC 7612N	31	23	26	24	35
U11-227016	13	11	24	30	21
U11-230030	15	19	1	31	16
U12-905062	2	8	5	10	15
U12-911082	20	28	17	21	23
U12-912090	11	6	3	16	22
U12-916003	10	21	12	14	3
U12-918010	8	3	25	19	18
U12-919011	19	9	6	29	1
U12-920016	30	27	32	33	34
U12-921005	12	10	34	5	9
U12-921014	23	31	37	20	25
U12-921087	17	7	28	17	12
U12-921088	9	4	19	25	24
U12-922059	5	13	16	12	8

Preliminary Test I, 2014

Yield Rank

Strain	Cotesfield NE	Hooper NE	Phillips NE	Ridgetown ONT	St. Hyancinthe QUE
MN1410 (I)	25	30	23	28	2
IA1022 (SCN)	22	15	22	21	16
Sheyenne (0)	39	39	36	32	14
AR12-128006	18	21	28	24	33
AR12-228090	21	32	6	16	31
AR13-132025	9	16	14	36	17
AR13-132036	2	19	19	11	35
AR13-132037	5	1	1	27	24
AR13-132061	17	27	18	5	12
AW12-701034	7	26	17	8	39
AW12-701044	1	5	5	19	32
M08-144103	38	36	37	39	23
M08-207033	35	29	31	35	25
M08-224032	37	37	35	30	26
M08-391087	30	25	30	18	21
M08-608002	36	38	39	38	19
M08-608051	32	33	20	33	30
M08-609011	33	35	34	29	28
M09-169049	27	34	32	34	20
OAC 12-61C	26	18	13	20	1
OAC 12-66C	34	21	29	23	3
OAC 12-86C	12	3	7	9	10
OAC 12-98C	29	17	21	6	6
OAC 12-107C-HO	28	31	25	3	9
ORC 7612N	31	28	33	22	4
U11-227016	4	10	7	15	36
U11-230030	6	9	15	31	34
U12-905062	15	2	9	1	8
U12-911082	10	24	24	2	38
U12-912090	11	11	12	14	37
U12-916003	14	23	11	25	22
U12-918010	16	6	10	4	11
U12-919011	23	7	38	7	5
U12-920016	24	8	27	37	18
U12-921005	19	14	3	12	15
U12-921014	20	20	4	17	29
U12-921087	13	13	16	13	27
U12-921088	8	4	25	10	7
U12-922059	3	12	2	26	13

Preliminary Test I, 2014

Maturity (date)

Strain	Mean 8 Tests	Kanawha IA	Lafayette IN	Ingham MI	Lamberton MN
MN1410 (I)	9/21	9/26	9/14	9/25	9/27
IA1022 (SCN)	2.9	4.0	2.5	4.0	2.0
Sheyenne (0)	-4.9	-6.0	-3.5	-4.0	-6
AR12-128006	0.4	0.0	-1.5	6.0	0.0
AR12-228090	0.9	1.5	2.0	2.0	0.0
AR13-132025	4.4	3.0	5.0	8.0	5.0
AR13-132036	5.1	10.5	5.0	9.0	5.0
AR13-132037	4.3	6.5	7.0	5.0	4.0
AR13-132061	1.6	1.5	4.0	4.0	0.0
AW12-701034	5.1	6.5	8.5	8.0	-9
AW12-701044	6.3	7.0	3.5	12.0	12.0
M08-144103	-2.9	-2.0	1.0	-2.0	-5
M08-207033	1.8	-1.0	5.0	2.0	1.0
M08-224032	-2.1	-2.0	-1.0	-1.0	-3.0
M08-391087	1.4	-1.5	3.5	4.0	-1.0
M08-608002	-2.4	4.0	-1.0	-3.0	-2
M08-608051	8.8	8.5	8.0	3.0	10.0
M08-609011	-0.1	0.0	-1.0	1.0	-1.0
M09-169049	2.6	1.0	-1.5	1.0	5.0
OAC 12-61C	1.4	2.5	5.0	2.0	3.0
OAC 12-66C	-2.6	-3.5	1.5	-3.0	-1.0
OAC 12-86C	4.2	3.5	5.0	4.0	5.0
OAC 12-98C	1.2	0.5	5.0	0.0	3.0
OAC 12-107C-HO	3.8	4.0	5.0	3.0	6.0
ORC 7612N	0.9	0.0	2.5	6.0	1.0
U11-227016	6.3	7.5	5.0	9.0	13.0
U11-230030	4.3	8.0	5.5	4.0	7.0
U12-905062	8.1	4.0	5.5	15.0	14.0
U12-911082	7.9	4.0	6.0	16.0	15.0
U12-912090	10.5	10.0	9.0	16.0	11.0
U12-916003	8.6	9.5	9.5	16.0	13.0
U12-918010	4.7	5.5	3.0	2.0	14.0
U12-919011	5.9	5.0	5.5	6.0	12.0
U12-920016	0.8	0.5	0.0	-2.0	1.0
U12-921005	2.8	-0.5	-1.5	5.0	5.0
U12-921014	5.7	2.5	4.0	12.0	12.0
U12-921087	2.0	0.5	-0.5	5.0	4.0
U12-921088	1.9	-0.5	1.0	1.0	5.0
U12-922059	5.2	2.5	5.0	5.0	12.0
Date Planted	5/22	5/20	5/26	6/10	5/15
Days To Mature	119.4	129.0	111.0	107.0	135.0

Preliminary Test I, 2014

Maturity (date)

Strain	Cotesfield NE	Hooper NE	Phillips NE	Ridgetown ONT	St. Hyancinthe QUE
MN1410 (I)	.	9/15	9/14	9/21	9/28
IA1022 (SCN)	.	3.0	3.0	7.0	-2.0
Sheyenne (0)	.	-7.0	-3.0	-7.0	-4.0
AR12-128006	.	0.0	0.0	2.0	-4.0
AR12-228090	.	-1.0	2.0	3.0	-3.0
AR13-132025	.	5.0	4.0	6.0	-1.0
AR13-132036	.	3.0	2.0	6.0	0.0
AR13-132037	.	4.0	4.0	4.0	0.0
AR13-132061	.	3.0	-1.0	3.0	-3.0
AW12-701034	.	4.0	3.0	6.0	0.0
AW12-701044	.	6.0	3.0	6.0	1.0
M08-144103	.	-7.0	-4.0	-2.0	-4.0
M08-207033	.	1.0	0.0	7.0	-1.0
M08-224032	.	-5.0	-2.0	-1.0	-3.0
M08-391087	.	2.0	-1.0	4.0	-1.0
M08-608002	.	-7.0	-2.0	-4.0	-4.0
M08-608051	.	8.0	6.0	14.0	13.0
M08-609011	.	-2.0	-1.0	4.0	-2.0
M09-169049	.	2.0	3.0	9.0	1.0
OAC 12-61C	.	0.0	1.0	1.0	-3.0
OAC 12-66C	.	-5.0	-2.0	-1.0	-5.0
OAC 12-86C	.	6.0	4.0	6.0	0.0
OAC 12-98C	.	0.0	1.0	1.0	-1.0
OAC 12-107C-HO	.	2.0	4.0	7.0	-1.0
ORC 7612N	.	-3.0	-2.0	3.0	0.0
U11-227016	.	6.0	4.0	6.0	0.0
U11-230030	.	5.0	3.0	3.0	-1.0
U12-905062	.	5.0	6.0	10.0	5.0
U12-911082	.	2.0	6.0	13.0	1.0
U12-912090	.	6.0	5.0	14.0	13.0
U12-916003	.	5.0	3.0	8.0	5.0
U12-918010	.	4.0	1.0	7.0	1.0
U12-919011	.	3.0	3.0	8.0	5.0
U12-920016	.	3.0	1.0	3.0	0.0
U12-921005	.	3.0	2.0	9.0	0.0
U12-921014	.	4.0	3.0	8.0	0.0
U12-921087	.	1.0	1.0	5.0	0.0
U12-921088	.	4.0	1.0	4.0	0.0
U12-922059	.	5.0	3.0	9.0	0.0
Date Planted	5/19	5/17	5/20	5/29	5/31
Days To Mature	.	121.0	117.0	115.0	120.0

Preliminary Test I, 2014

Lodging (score)

Strain	Mean 8 Tests	Kanawha IA	Lafayette IN	Ingham MI	Lamberton MN
MN1410 (I)	2.0	2.3	1.3	4.0	2.0
IA1022 (SCN)	1.9	2.3	1.3	3.5	2.0
Sheyenne (0)	1.3	1.8	1.3	2.0	1.0
AR12-128006	1.7	2.0	1.5	3.0	1.0
AR12-228090	1.6	2.3	1.5	2.5	1.0
AR13-132025	2.4	2.5	2.0	3.5	2.0
AR13-132036	1.9	2.5	1.5	3.5	2.0
AR13-132037	2.1	2.5	1.5	2.5	2.0
AR13-132061	1.5	2.3	1.0	2.5	1.0
AW12-701034	1.8	2.5	1.0	3.5	2.0
AW12-701044	1.3	1.5	1.0	2.5	1.0
M08-144103	1.9	1.8	1.5	3.5	2.0
M08-207033	2.5	2.3	2.0	4.5	2.0
M08-224032	1.3	1.8	1.0	1.0	1.0
M08-391087	1.4	1.8	1.0	1.5	2.0
M08-608002	1.8	1.8	1.3	3.5	2.0
M08-608051	1.9	1.8	1.5	2.5	2.0
M08-609011	1.9	2.3	1.3	2.5	2.0
M09-169049	2.0	2.3	1.3	3.0	2.0
OAC 12-61C	1.8	1.8	1.5	3.5	2.0
OAC 12-66C	1.7	2.5	1.8	2.5	1.0
OAC 12-86C	1.7	2.0	1.5	2.5	2.0
OAC 12-98C	1.7	1.8	2.0	2.0	2.0
OAC 12-107C-HO	1.9	2.3	1.8	2.5	2.0
ORC 7612N	1.8	2.0	1.5	3.0	2.0
U11-227016	1.7	2.0	1.0	3.5	2.0
U11-230030	1.6	2.3	1.0	2.0	2.0
U12-905062	1.8	2.0	1.3	3.0	2.0
U12-911082	1.3	1.8	1.0	2.0	1.0
U12-912090	1.8	2.0	1.0	2.0	2.0
U12-916003	2.2	2.5	1.0	4.0	2.0
U12-918010	1.8	2.0	1.0	3.0	2.0
U12-919011	2.9	2.5	1.3	3.5	2.0
U12-920016	1.8	2.0	1.3	2.5	2.0
U12-921005	1.9	2.3	1.0	3.5	2.0
U12-921014	1.8	2.3	1.0	3.5	1.0
U12-921087	1.8	2.3	1.0	3.0	2.0
U12-921088	1.7	2.3	1.5	2.0	2.0
U12-922059	1.9	2.3	1.0	2.5	2.0

Preliminary Test I, 2014

Lodging (score)

Strain	Hooper NE	Phillips NE	Ridgetown ONT	St. Hyancinthe QUE
MN1410 (I)	1.0	1.3	2.5	2.0
IA1022 (SCN)	1.3	1.0	2.0	1.7
Sheyenne (0)	1.0	1.0	1.5	1.0
AR12-128006	1.0	1.8	2.0	1.0
AR12-228090	1.5	1.3	2.0	1.0
AR13-132025	2.3	2.0	3.0	1.7
AR13-132036	1.3	1.5	2.0	1.3
AR13-132037	2.0	1.8	2.5	2.0
AR13-132061	1.3	1.0	2.0	1.0
AW12-701034	1.0	1.0	1.5	1.7
AW12-701044	1.0	1.0	1.0	1.0
M08-144103	1.0	1.5	2.0	2.0
M08-207033	1.5	2.3	3.0	2.7
M08-224032	1.0	1.0	2.5	1.0
M08-391087	1.0	1.3	2.0	1.0
M08-608002	1.5	1.5	2.0	1.0
M08-608051	1.0	1.5	3.0	2.3
M08-609011	1.8	1.3	2.0	2.0
M09-169049	1.3	1.3	3.5	1.7
OAC 12-61C	1.5	1.0	2.0	1.0
OAC 12-66C	1.0	1.5	2.0	1.3
OAC 12-86C	1.0	1.3	2.0	1.0
OAC 12-98C	1.3	1.3	2.0	1.0
OAC 12-107C-HO	1.5	1.0	3.0	1.0
ORC 7612N	1.3	1.5	2.0	1.0
U11-227016	1.3	1.0	1.5	1.3
U11-230030	1.3	1.0	2.0	1.0
U12-905062	1.0	1.8	2.0	1.0
U12-911082	1.0	1.0	2.0	1.0
U12-912090	1.3	1.0	3.0	2.0
U12-916003	2.0	1.5	2.5	2.0
U12-918010	1.3	1.3	2.5	1.3
U12-919011	8.3	1.3	3.0	1.7
U12-920016	1.3	1.0	3.0	1.7
U12-921005	1.3	1.3	2.5	1.7
U12-921014	1.3	1.0	2.0	2.0
U12-921087	1.5	1.0	2.0	1.3
U12-921088	1.3	1.3	2.0	1.3
U12-922059	1.3	1.5	3.0	1.3

Preliminary Test I, 2014

Plant Height (inches)

Strain	Mean 7 Tests	Kanawha IA	Lafayette IN	Ingham MI	Lamberton MN	Phillips NE	Ridgetown ONT	St. Hyancinthe QUE
MN1410 (I)	34.2	27.0	33.5	38.0	29.0	33.5	37.2	40.9
IA1022 (SCN)	31.7	24.0	31.0	34.0	28.0	31.3	38.2	35.3
Sheyenne (0)	28.3	19.5	31.5	24.0	27.0	29.8	35.6	30.5
AR12-128006	31.5	24.5	30.5	32.0	25.0	33.5	39.2	35.6
AR12-228090	33.0	27.5	33.0	33.0	26.0	35.0	40.0	36.6
AR13-132025	36.0	31.0	35.0	36.0	32.0	37.5	38.6	41.7
AR13-132036	34.6	29.0	33.0	35.0	31.0	35.5	39.6	39.0
AR13-132037	34.9	29.5	33.0	34.0	30.0	38.8	38.8	40.6
AR13-132061	34.5	29.5	30.5	34.0	36.0	34.0	39.0	38.5
AW12-701034	32.4	25.5	30.5	33.0	28.0	34.5	39.0	36.2
AW12-701044	32.2	25.0	28.5	34.0	28.0	33.5	38.4	38.0
M08-144103	28.5	22.0	29.0	25.0	24.0	29.0	35.8	34.9
M08-207033	34.0	27.5	30.0	36.0	27.0	38.5	37.8	41.4
M08-224032	31.2	23.0	29.0	29.0	29.0	32.5	39.6	36.4
M08-391087	34.6	26.0	32.0	33.0	33.0	37.5	39.6	40.9
M08-608002	26.6	17.0	24.5	25.0	24.0	25.8	38.0	31.8
M08-608051	36.5	29.5	37.5	31.0	31.0	41.5	42.5	42.5
M08-609011	33.7	25.5	31.5	31.0	32.0	37.3	37.0	41.4
M09-169049	34.4	24.5	29.5	31.0	34.0	40.3	41.1	40.2
OAC 12-61C	33.4	25.0	33.0	33.0	29.0	37.8	38.0	38.0
OAC 12-66C	28.7	21.5	30.5	24.0	22.0	31.5	39.6	31.7
OAC 12-86C	33.6	26.5	31.5	32.0	30.0	36.5	38.4	40.6
OAC 12-98C	33.1	28.0	30.5	29.0	28.0	34.5	41.3	40.5
OAC 12-107C-HO	36.6	29.5	36.5	35.0	29.0	40.3	45.7	40.6
ORC 7612N	32.3	25.5	32.0	30.0	30.0	30.8	37.4	40.2
U11-227016	33.9	28.5	32.0	33.0	32.0	35.8	39.4	36.7
U11-230030	34.4	31.0	33.0	32.0	31.0	37.0	40.0	36.7
U12-905062	36.2	29.5	31.5	36.0	33.0	38.5	41.5	43.2
U12-911082	34.1	28.5	30.5	35.0	31.0	34.5	38.6	40.4
U12-912090	39.9	36.0	40.5	39.0	34.0	43.5	38.4	47.7
U12-916003	38.6	33.0	35.0	39.0	35.0	41.5	39.4	47.6
U12-918010	36.5	32.0	34.5	35.0	33.0	37.0	42.1	42.2
U12-919011	37.8	31.0	32.0	39.0	31.0	44.0	43.1	44.6
U12-920016	37.4	31.5	33.5	36.0	33.0	40.3	42.3	45.1
U12-921005	30.3	25.5	25.0	29.0	25.0	30.0	39.2	38.1
U12-921014	28.9	20.5	26.0	30.0	23.0	28.0	39.6	35.1
U12-921087	34.8	29.0	32.5	38.0	29.0	37.3	38.8	39.2
U12-921088	36.1	31.0	33.0	31.0	35.0	40.8	39.8	42.0
U12-922059	34.6	30.0	31.0	33.0	29.0	38.3	41.3	39.6

Preliminary Test I, 2014

Seed Quality (score)

Strain	Mean 6 Tests	Kanawha IA	Lafayette IN	Lamberton MN	Phillips NE	Ridgetown ONT	St. Hyancinthe QUE
MN1410 (I)	2.0	2.0	2.0	2.0	2.0	1.0	2.7
IA1022 (SCN)	1.6	2.0	1.0	2.0	2.0	1.5	1.3
Sheyenne (0)	2.1	2.0	3.0	3.0	2.0	1.0	1.5
AR12-128006	2.1	1.0	2.0	2.0	2.0	1.5	3.0
AR12-228090	1.8	2.0	2.0	1.0	2.0	1.0	3.2
AR13-132025	2.1	2.0	2.0	1.0	2.0	2.0	3.5
AR13-132036	2.0	2.0	2.0	1.0	2.0	2.0	3.0
AR13-132037	1.9	2.0	2.0	1.0	2.0	1.5	3.0
AR13-132061	2.0	2.0	2.0	2.0	2.0	1.0	3.0
AW12-701034	1.7	2.0	1.0	1.0	2.0	2.0	2.7
AW12-701044	1.7	2.0	1.0	2.0	2.0	1.0	2.3
M08-144103	2.3	2.0	2.0	3.0	2.0	1.5	3.0
M08-207033	2.0	2.0	2.0	2.0	2.0	1.0	2.8
M08-224032	1.4	2.0	1.0	2.0	2.0	1.0	1.0
M08-391087	1.8	1.0	2.0	1.0	2.0	1.0	3.2
M08-608002	2.6	2.0	3.0	2.0	3.0	2.0	3.2
M08-608051	2.2	2.0	2.0	2.0	2.0	2.0	3.0
M08-609011	2.0	2.0	2.0	1.0	2.0	2.0	3.0
M09-169049	2.9	2.0	4.0	2.0	3.0	2.0	3.7
OAC 12-61C	1.4	1.0	1.0	1.0	2.0	1.0	2.2
OAC 12-66C	1.5	1.0	2.0	1.0	2.0	1.0	1.5
OAC 12-86C	1.8	2.0	2.0	2.0	2.0	1.0	1.8
OAC 12-98C	1.6	1.0	2.0	2.0	2.0	1.0	1.0
OAC 12-107C-HO	2.2	2.0	2.0	3.0	2.0	1.0	3.0
ORC 7612N	1.4	2.0	1.0	2.0	1.0	1.0	2.0
U11-227016	2.0	2.0	2.0	2.0	2.0	1.5	2.7
U11-230030	1.8	2.0	2.0	2.0	2.0	1.0	2.0
U12-905062	1.9	2.0	2.0	1.0	2.0	2.0	2.7
U12-911082	1.8	2.0	2.0	1.0	2.0	1.0	3.0
U12-912090	1.9	2.0	2.0	1.0	2.0	1.5	3.0
U12-916003	2.3	2.0	3.0	2.0	2.0	2.0	2.7
U12-918010	2.0	1.0	2.0	1.0	2.0	2.0	3.2
U12-919011	2.0	2.0	2.0	2.0	2.0	1.0	3.0
U12-920016	2.3	2.0	2.0	2.0	2.0	2.5	3.2
U12-921005	2.3	3.0	2.0	2.0	2.0	2.0	3.3
U12-921014	2.1	1.0	2.0	2.0	2.0	2.0	2.7
U12-921087	2.0	1.0	2.0	2.0	2.0	1.0	3.0
U12-921088	2.2	1.0	2.0	2.0	2.0	2.0	3.0
U12-922059	1.7	2.0	2.0	1.0	2.0	1.5	2.2

Preliminary Test I, 2014

Seed Size (g/100)

Strain	Mean 7 Tests	Kanawha IA	Lafayette IN	Ingham MI	Lamberton MN	Phillips NE	Ridgetown ONT	St. Hyancinthe QUE
MN1410 (I)	17.5	15.2	13.7	17.8	19.7	21.2	18.4	16.3
IA1022 (SCN)	15.9	13.8	13.1	15.8	15.9	18.0	19.8	14.7
Sheyenne (0)	16.6	16.3	15.3	16.1	17.6	19.0	17.5	14.4
AR12-128006	17.5	15.6	13.4	18.3	18.6	20.2	20.6	16.1
AR12-228090	18.5	16.3	14.3	19.0	20.0	19.6	23.5	16.8
AR13-132025	16.3	13.8	12.2	17.0	17.9	19.3	18.7	15.1
AR13-132036	16.5	14.5	13.5	16.6	19.4	18.3	19.2	14.2
AR13-132037	16.7	14.5	12.9	17.2	19.3	19.4	19.3	14.4
AR13-132061	17.3	14.7	14.6	17.8	18.7	20.1	20.0	15.3
AW12-701034	13.9	11.8	11.4	14.2	15.6	15.0	17.5	11.6
AW12-701044	14.7	12.6	11.4	15.4	15.2	16.8	18.3	13.3
M08-144103	19.4	18.7	16.9	18.2	20.2	23.3	20.0	18.4
M08-207033	17.3	14.8	14.7	16.7	18.8	19.3	21.2	15.3
M08-224032	17.7	16.4	12.1	16.7	20.2	21.3	20.1	17.0
M08-391087	18.9	16.6	16.9	18.8	20.1	21.6	21.3	16.8
M08-608002	18.7	17.1	16.2	18.5	18.8	22.0	20.2	18.0
M08-608051	19.4	17.0	15.6	17.7	20.0	23.8	24.0	17.9
M08-609011	15.0	13.8	13.4	14.0	15.3	17.2	17.7	13.6
M09-169049	16.9	15.3	13.0	14.7	17.4	20.7	20.1	17.3
OAC 12-61C	17.2	14.2	14.4	17.9	16.3	20.3	20.4	16.9
OAC 12-66C	18.2	14.7	15.4	20.4	16.8	20.7	21.2	18.2
OAC 12-86C	18.6	16.4	16.8	18.3	17.5	21.5	22.7	17.1
OAC 12-98C	18.7	16.1	15.5	17.9	19.7	23.6	20.9	17.1
OAC 12-107C-HO	16.8	17.4	13.2	17.1	16.7	18.2	19.5	15.7
ORC 7612N	19.0	16.9	16.3	17.6	20.4	21.4	22.0	18.4
U11-227016	14.8	12.1	12.6	15.3	16.0	17.3	17.8	12.6
U11-230030	16.8	13.4	16.0	17.1	16.2	19.9	19.5	15.5
U12-905062	16.9	15.0	14.3	18.1	16.6	19.4	20.1	14.7
U12-911082	17.7	15.3	14.9	19.9	18.0	19.2	21.6	15.3
U12-912090	17.7	14.7	15.7	19.8	18.9	20.1	19.9	14.9
U12-916003	16.1	13.4	13.2	17.1	17.4	18.9	18.8	13.7
U12-918010	15.9	14.7	11.7	15.7	17.0	19.1	18.7	14.3
U12-919011	16.3	13.6	13.0	15.2	18.5	20.4	18.7	14.7
U12-920016	18.4	16.5	15.1	17.4	18.8	23.7	18.9	18.1
U12-921005	20.2	18.1	14.7	21.3	19.1	24.0	25.3	18.6
U12-921014	16.9	15.0	13.4	18.1	15.7	19.2	21.3	15.6
U12-921087	16.7	14.5	12.8	17.4	16.3	19.7	21.3	15.0
U12-921088	15.2	13.8	12.7	14.9	15.4	17.5	18.5	13.8
U12-922059	19.0	16.3	16.5	19.2	18.8	21.6	23.2	17.4

Preliminary Test I, 2014

Protein (%)

Strain	Mean 6 Tests	Lafayette IN	Ingham MI	Lamberton MN	Phillips NE	Ridgetown ONT*	St. Hyancinthe QUE*
MN1410 (I)	36.1	35.8	36.3	36.6	36.6	37.8	33.6
IA1022 (SCN)	33.7	33.6	34.1	34.0	34.7	35.6	30.2
Sheyenne (0)	35.2	36.2	35.6	35.2	36.1	36.4	31.5
AR12-128006	36.4	35.4	37.3	37.2	36.5	38.4	33.6
AR12-228090	35.3	35.5	34.9	36.3	35.6	37.2	32.5
AR13-132025	34.3	34.2	35.7	34.0	33.9	36.2	31.8
AR13-132036	35.4	34.9	36.7	35.4	34.6	37.1	33.4
AR13-132037	35.9	36.0	36.8	36.2	35.0	37.9	33.7
AR13-132061	34.5	33.9	35.6	35.2	34.9	35.9	31.3
AW12-701034	35.0	34.5	35.8	35.7	34.6	37.0	32.2
AW12-701044	35.3	34.6	35.9	35.9	35.8	37.0	32.4
M08-144103	36.6	36.6	37.0	36.8	37.4	37.8	33.8
M08-207033	35.6	35.5	36.8	35.7	35.2	37.8	32.8
M08-224032	35.5	35.1	36.3	35.8	36.5	36.9	32.6
M08-391087	36.5	36.0	37.0	36.5	37.5	38.0	34.0
M08-608002	37.0	37.7	37.2	36.1	37.1	39.2	34.7
M08-608051	36.2	34.9	37.0	36.6	36.4	37.5	35.0
M08-609011	35.5	34.8	36.5	36.1	35.6	37.6	32.6
M09-169049	36.1	35.0	36.5	35.4	37.0	38.4	34.3
OAC 12-61C	34.2	33.8	35.4	34.0	34.8	35.7	31.8
OAC 12-66C	35.4	35.4	36.4	34.8	36.0	36.8	32.6
OAC 12-86C	36.5	36.2	36.8	36.4	36.2	38.6	34.9
OAC 12-98C	35.5	35.5	36.2	35.3	36.1	37.0	33.2
OAC 12-107C-HO	33.5	33.2	34.7	34.1	33.9	34.4	30.7
ORC 7612N	35.4	35.9	36.2	35.5	36.0	36.4	32.5
U11-227016	34.9	34.1	36.1	35.0	34.5	36.9	33.1
U11-230030	34.0	34.5	34.4	34.1	34.1	35.5	31.3
U12-905062	35.0	34.4	35.4	34.8	35.8	36.6	32.9
U12-911082	36.5	36.4	37.3	35.9	36.2	38.8	34.7
U12-912090	34.6	33.8	35.5	34.3	35.6	35.6	33.0
U12-916003	35.4	35.6	36.4	36.0	35.4	36.5	32.9
U12-918010	35.5	35.0	35.9	34.8	36.4	37.3	33.5
U12-919011	35.2	34.8	35.3	35.5	36.0	37.1	32.7
U12-920016	35.9	35.1	35.6	36.2	37.3	37.2	34.2
U12-921005	35.0	34.5	36.1	34.9	35.4	36.4	32.6
U12-921014	35.4	35.3	36.1	35.5	35.3	36.8	33.1
U12-921087	35.0	34.6	35.4	35.5	35.3	37.0	32.4
U12-921088	35.2	34.6	34.6	35.9	36.3	36.8	33.2
U12-922059	35.2	35.7	35.8	34.6	35.5	36.9	32.9

*Protein and Oil values converted to 13% moisture basis

Preliminary Test I, 2014

Oil (%)

Strain	Mean 6 Tests	Lafayette IN	Ingham MI	Lamberton MN	Phillips NE	Ridgetown ONT*	St. Hyancinthe QUE*
MN1410 (I)	18.6	19.3	18.7	18.7	18.8	18.5	17.9
IA1022 (SCN)	19.3	20.3	19.0	19.7	19.6	19.0	18.3
Sheyenne (0)	18.3	18.9	18.0	18.9	18.7	17.7	17.5
AR12-128006	18.4	19.9	18.1	18.1	19.0	17.7	17.4
AR12-228090	18.0	18.7	18.2	18.0	18.6	17.9	16.4
AR13-132025	17.8	19.0	17.6	17.8	18.6	17.8	15.9
AR13-132036	18.3	19.5	17.6	18.4	19.1	18.3	16.7
AR13-132037	17.8	18.4	17.3	18.2	18.8	17.7	16.2
AR13-132061	18.3	19.4	17.9	18.7	19.3	17.8	17.1
AW12-701034	17.6	18.9	16.8	17.7	18.4	17.5	16.4
AW12-701044	17.7	19.2	17.1	17.5	18.6	17.3	16.3
M08-144103	18.6	19.4	18.4	19.0	18.9	18.3	17.5
M08-207033	18.5	19.8	18.0	19.1	19.4	18.0	16.9
M08-224032	19.0	19.9	18.7	19.0	19.3	18.9	18.1
M08-391087	18.1	19.3	17.6	18.4	18.5	17.8	16.8
M08-608002	18.2	18.7	18.8	18.7	18.7	17.2	17.1
M08-608051	18.1	19.6	18.1	18.1	18.7	17.9	16.0
M08-609011	17.8	19.0	17.3	18.0	18.6	17.1	16.8
M09-169049	17.9	18.9	17.4	18.7	18.6	17.0	16.6
OAC 12-61C	18.8	20.0	18.4	18.9	19.1	18.7	17.4
OAC 12-66C	18.6	19.4	18.4	19.1	18.7	18.3	17.7
OAC 12-86C	17.7	19.2	17.7	18.0	18.5	17.3	15.8
OAC 12-98C	18.6	19.4	18.5	19.0	19.1	18.5	17.4
OAC 12-107C-HO	19.4	20.6	19.2	18.9	20.1	19.8	18.0
ORC 7612N	18.2	18.8	17.2	18.5	19.0	18.5	17.2
U11-227016	18.3	20.0	17.9	18.1	19.1	18.0	16.9
U11-230030	19.0	20.6	18.5	18.4	19.9	19.4	17.3
U12-905062	18.5	19.9	18.3	18.5	19.0	18.0	17.1
U12-911082	18.1	19.6	18.1	18.6	19.2	17.5	16.0
U12-912090	18.5	20.1	18.2	18.7	19.0	18.4	16.3
U12-916003	18.4	19.6	18.0	18.0	19.1	18.4	17.1
U12-918010	18.3	19.1	17.8	18.5	18.9	18.2	17.1
U12-919011	18.5	19.6	18.6	18.5	19.0	18.4	17.3
U12-920016	18.7	20.2	18.7	18.2	18.8	18.9	17.2
U12-921005	19.0	20.2	18.8	19.1	19.6	18.8	17.7
U12-921014	18.9	19.7	18.8	18.9	19.4	18.7	17.7
U12-921087	18.5	19.8	18.2	18.0	19.3	18.5	17.2
U12-921088	18.1	19.3	18.7	17.0	18.5	18.3	16.9
U12-922059	19.0	19.8	18.8	19.4	19.5	18.9	17.7

*Protein and Oil values converted to 13% moisture basis

Uniform Test II, 2014

Ent.	Strain	Parentage	Seed Source	Previous Testing	Gen. Comp.	Unique Traits
1.	IA 2102 (II)	A04-545045 x AgriPro 98180-A01-0613	Fehr	3.0	F4	
2.	IA1022 (SCN)	Dairyland 98822 x A00-711024	Fehr	6.0	F5	SCN
3.	IA3024	A97-553017 x Pioneer YB33A99	Fehr	7.0		1% linolenic
4.	LD02-4485 (SCN)	M90-184111 x IA3010	Diers	3.0	F5	SCN
5.	IA2109	IA3026 x Syngenta 04KL015644	Fehr	1.0		7% saturates
6.	AR11-214001	AR05-150102 x Syngenta 03JR321086	Cianzio	1.0	F5	BSR
7.	AR12-228007	AR07-176037 x Syngenta 03JR101016	Cianzio	PTIA	F4	BSR
8.	AR12-228047	PI 424169A x Golden Harvest 24040	Cianzo	PTIIA	F5	Phyto
9.	AW10-653019	IA3042 x Syngenta 03JR321086	Fehr	1.0	F4	1% linolenic
10.	AW11-103013	A07-421013 x Dairyland 75047N	Fehr		F4	7% saturates
11.	AW11-203034	A07-521011 x Dairyland 75221	Fehr		F4	7% saturates
12.	AW11-203039	A07-521018 x Syngenta 03JR101916	Fehr		F4	7% saturates
13.	E11401	Skylla x E08901 (E00003 x PI 567543C)	Wang	PTIIA	F5	
14.	E11431	Skylla x PI 567537	Wang	PTIIA	F5	
15.	LD10-5213a	LD02-4485(5) x (Ina x PI 200538)	Diers	PTIIA	F5	Rag2, SCN
16.	LD10-5587a	LD04-8782(2) x [LD03-6566 x (LD02-4485 x (Ina x PI 200538))]	Diers	PTIIA	F5	Rag2?, SCN
17.	LD10-5903a	M99-286047 x LD05-16638	Diers	13 SCNUTI	F4	SCN, aphid Rag 1
18.	LD10-10198	LD05-3230 x LD00-3309	Diers	13 SCNPTII	F4	SCN
19.	MLG03-4069017	A99-217006 x LG98-1445	Orf	PTIIB	F5	PI
20.	U09-133021	U02-242055 X U03-200317	Graef	1.0	F4	
21.	U11-610107	LD02-4485 x U03-100612	Graef	PTIB	F6	SCN
22.	U11-610109	LD02-4485 x U03-100612	Graef	PTIIB	F6	SCN
23.	U11-611112	LD02-4485 x U03-100612	Graef	PTIIB	F6	SCN HR, NR
24.	U11-614119	U02-242055 x LD04-13265	Graef	PTIIB	F6	SCN,Rps1k
25.	U11-619102	U03-300134 x LD00-3309	Graef	PTIIB	F6	SCN,Rps1k
26.	U11-619104	U03-300134 x LD00-3309	Graef	PTIIB	F6	SCN,Rps1k
27.	U11-919011	LD02-4485 x U03-300134	Graef	PTIIB	F6	SCN LR LR, Rps1k
28.	U11-920017	HS5-3417 x LD02- 4485	Graef	PTIIB	F6	SCN,Rps1k

Descriptive and Disease Data

Strain	Descriptive Code	FE Chlorosis Score Lamberton, MN
IA 2102 (II)	WGTDYYI	3.1
IA1022 (SCN)	PGTSYYI	3.0
IA3024	PGTIYIbI	2.8
LD02-4485 (SCN)	PGBDYLbfI	2.8
IA2109	WLtBDYBlI	3.7
AR11-214001	PTBDYBlI	3.3
AR12-228007	PTTDYBrI	2.9
AR12-228047	PGBDYIbfI	2.8
AW10-653019	WTBDYBrI	3.2
AW11-103013	PGBDYIbI	3.8
AW11-203034	WGBDYBfI	3.2
AW11-203039	WGBDYBfI	3.7
E11401	PTTDYBlI	3.4
E11431	PTTDYBlI	3.3
LD10-5213a	PGBDYBfI	2.4
LD10-5587a	WLtTDYBlI	3.6
LD10-5903a	PGBDYI	3.3
LD10-10198	PGBDYI	2.9
MLG03-4069017	PTBDYBlI	2.8
U09-133021	PTBDYLgI	2.9
U11-610107	PLtBDYLbrI	3.4
U11-610109	PLtBDYLbrI	3.8
U11-611112	PLtBDYBrI	3.1
U11-614119	WTBDYBlI	3.4
U11-619102	P+WLtBDYBlI	2.4
U11-619104	PLtBDYBlI	2.8
U11-919011	PLtBDYBlI	3.7
U11-920017	PLtBDYBrI	3.0

Uniform Test II, 2014

Regional Summary

	Yield	Rank	Maturity	Lodging	Plant Height	Seed Quality	Seed Size	Composition	
								Protein	Oil
No. of Tests	13	13	14	14	13	10	10	10	10
Strain	bu/a	No.	Date	Score	In	Score	g/100	(%)	(%)
IA 2102 (II)	69.1	12	9/28	2.3	33.6	1.8	17.0	35.4	18.5
IA1022 (SCN)	62.3	27	-5.1	1.6	30.5	1.5	16.7	34.1	20.0
IA3024	68.7	14	2.9	1.7	34.4	1.4	17.6	34.3	19.0
LD02-4485 (SCN)	66.0	21	-0.8	1.8	33.1	1.8	15.4	33.5	19.2
IA2109	67.7	16	-1.6	1.5	34.7	1.7	18.1	35.7	18.5
AR11-214001	69.8	6	0.6	1.5	30.5	1.5	18.5	35.1	18.9
AR12-228007	69.5	11	0.9	1.4	32.1	1.3	17.2	35.7	18.8
AR12-228047	66.1	20	0.0	1.6	33.2	1.5	15.6	33.7	19.3
AW10-653019	66.4	18	4.5	2.0	33.3	1.7	15.5	35.3	18.1
AW11-103013	66.2	19	-2.3	1.6	30.1	1.7	17.4	36.4	18.8
AW11-203034	70.0	5	1.0	1.8	32.7	2.0	18.1	36.7	18.8
AW11-203039	64.6	23	1.1	1.5	32.8	1.8	17.9	36.4	18.3
E11401	61.5	28	-0.6	1.3	33.0	1.4	17.7	34.6	19.0
E11431	62.7	26	-0.9	1.4	33.7	1.5	17.4	34.9	19.0
LD10-5213a	70.5	3	0.9	1.6	32.2	1.6	17.3	34.3	19.3
LD10-5587a	67.5	17	3.8	2.0	33.0	1.6	18.4	34.4	19.3
LD10-5903a	64.2	25	-2.0	1.9	32.6	1.6	18.0	36.6	18.6
LD10-10198	70.0	4	2.4	1.3	33.9	1.5	15.1	35.2	18.1
MLG03-4069017	65.6	22	-0.5	1.5	36.1	1.4	19.0	35.9	19.0
U09-133021	68.2	15	0.8	1.8	33.2	1.3	16.2	34.0	19.5
U11-610107	69.8	7	-0.5	1.8	32.5	1.5	17.2	34.7	19.5
U11-610109	69.7	8	0.4	1.7	34.5	1.4	16.5	34.4	19.5
U11-611112	64.6	24	0.9	2.2	36.5	1.7	15.0	33.7	19.4
U11-614119	72.6	2	2.3	1.4	33.1	1.3	17.1	34.7	18.8
U11-619102	69.7	9	1.8	1.4	33.2	1.4	16.1	34.2	18.7
U11-619104	69.6	10	1.0	1.4	32.6	1.2	15.8	34.1	18.7
U11-919011	69.1	13	-1.1	1.9	35.1	1.4	16.3	34.3	19.1
U11-920017	72.7	1	0.6	1.6	31.2	1.6	18.5	33.8	19.4

125.8 Days After Planting

Uniform Test II, 2014

2013-2014 2-Year Mean

	Yield	Rank	Maturity	Lodging	Plant Height	Seed Quality	Seed Size	Composition	
								Protein	Oil
No. of Tests	34	34	31	32	28	23	28	18	18
Strain	bu/a	No.	Date	Score	In	Score	g/100	(%)	(%)
IA 2102 (II)	66.2	1	9/25	2.2	33.5	1.7	16.5	35.1	18.6
IA1022 (SCN)	60.2	8	-4.8	1.6	30.2	1.6	16.4	33.7	20.2
IA3024	64.6	7	4.1	1.5	33.8	1.6	17.0	34.1	19.1
LD02-4485 (SCN)	64.6	6	0.3	1.7	32.6	1.6	15.1	33.5	19.2
IA2109	64.8	5	-2.1	1.5	33.4	1.6	17.3	35.3	18.6
AR11-214001	66.1	2	0.8	1.3	30.2	1.4	17.7	35.2	18.9
AW10-653019	64.9	4	5.4	1.8	32.8	1.6	15.3	35.1	18.3
U09-133021	65.6	3	1.0	1.6	32.2	1.5	15.7	34.1	19.5

126.6 Days After Planting

Uniform Test II, 2014

Yield (bu/a)

Strain	Mean 13 Tests	Ames IA	Boone IA	Dekalb IL	Urbana IL	Lafayette IN*	Wanatah IN	Ingham MI
IA2102 (II)	69.1	66.7	69.5	79.5	67.9	56.8	63.8	43.6
IA1022 (SCN)	62.3	62.0	60.5	69.2	53.4	48.3	59.8	55.4
IA3024	68.7	55.2	70.2	68.1	66.0	46.0	55.7	47.0
LD02-4485 (SCN)	66.0	53.2	67.2	67.1	68.6	67.0	65.6	46.1
IA2109	67.7	66.9	65.2	75.9	58.5	63.9	72.9	62.7
AR11-214001	69.8	57.8	71.5	74.3	71.8	67.6	66.8	54.7
AR12-228007	69.5	65.6	66.6	76.8	70.6	58.5	68.0	47.7
AR12-228047	66.1	58.6	62.2	70.2	68.3	65.7	60.9	52.6
AW10-653019	66.4	55.2	62.5	68.8	67.6	58.9	60.2	42.8
AW11-103013	66.2	64.3	61.6	68.3	49.1	59.6	67.0	50.0
AW11-203034	70.0	58.5	67.6	70.4	69.3	56.8	67.8	51.3
AW11-203039	64.6	60.0	61.3	68.3	62.0	58.8	61.7	45.9
E11401	61.5	59.0	57.5	60.3	52.7	44.8	57.0	53.8
E11431	62.7	59.0	65.2	63.2	55.5	46.9	52.1	59.1
LD10-5213a	70.5	68.6	68.2	72.5	74.3	65.4	66.7	50.1
LD10-5587a	67.5	67.3	72.2	67.8	67.4	59.5	50.3	40.9
LD10-5903a	64.2	60.0	66.8	72.3	55.3	61.6	60.3	55.4
LD10-10198	70.0	60.0	72.3	77.2	62.7	68.6	67.2	56.0
MLG03-4069017	65.6	57.1	68.1	70.4	68.8	55.1	63.6	53.3
U09-133021	68.2	61.8	72.9	72.8	68.9	51.8	61.0	55.6
U11-610107	69.8	59.8	70.8	74.2	76.8	55.8	61.7	56.6
U11-610109	69.7	60.6	68.2	71.0	74.9	60.6	63.0	50.3
U11-611112	64.6	50.5	55.8	74.2	71.6	53.6	58.7	41.6
U11-614119	72.6	60.1	71.0	76.6	73.6	56.4	64.7	55.6
U11-619102	69.7	58.2	70.5	70.3	66.6	60.9	57.6	46.5
U11-619104	69.6	60.4	69.2	69.9	69.6	59.7	55.3	53.8
U11-919011	69.1	57.0	70.3	69.6	70.7	57.5	65.3	48.5
U11-920017	72.7	60.7	73.6	72.1	78.5	54.3	64.0	52.4
Location Mean		60.1	67.1	71.1	66.5	57.9	62.1	51.0
C.V. (%)		6.4	6.4	5.9	7.0	15.3	10.8	12.7
L.S.D. (5%)		7.9	8.8	8.5	9.6	12.4	8.6	16.0
Row Sp (In.)		27	30	30	30	30	30	15
Rows/Plot		4	4	4	4	4	4	6
Reps		2	2	2	2	3	3	2

*Data not included in mean

Uniform Test II, 2014

Yield (bu/a)

Strain	Lenawee MI	Lamberton MN	Cotesfield NE	Hooper NE	Phillips NE	Hoytville OH*	Wooster OH	Chatham ONT
IA2102 (II)	73.3	50.8	79.5	81.2	95.6	64.4	57.2	69.5
IA1022 (SCN)	67.3	52.6	59.7	73.5	90.5	44.1	38.6	67.8
IA3024	70.0	53.7	84.7	81.5	106.8	46.0	59.0	75.6
LD02-4485 (SCN)	67.2	57.7	72.8	74.9	94.0	56.6	55.9	67.5
IA2109	73.3	57.7	51.9	75.2	97.0	56.4	54.4	67.8
AR11-214001	64.9	62.3	80.9	78.8	94.2	78.0	54.5	75.1
AR12-228007	69.3	60.3	80.5	77.0	94.4	58.7	52.1	74.0
AR12-228047	66.0	61.0	72.1	77.9	88.2	56.4	55.3	66.1
AW10-653019	61.6	54.6	94.1	72.4	101.4	56.4	60.1	62.3
AW11-103013	68.5	60.4	76.8	79.6	88.0	59.3	60.3	66.6
AW11-203034	68.2	55.9	82.2	81.2	101.5	62.4	58.0	78.1
AW11-203039	67.8	55.7	79.0	64.3	92.8	51.2	60.2	60.9
E11401	63.9	53.9	63.4	68.4	87.2	47.1	52.4	69.8
E11431	66.3	52.3	69.9	65.6	90.0	47.5	50.4	66.0
LD10-5213a	71.1	66.9	70.9	83.0	97.1	59.9	58.2	68.7
LD10-5587a	71.2	49.7	78.8	83.9	101.5	52.4	59.2	67.3
LD10-5903a	70.1	60.4	61.6	67.3	82.7	55.0	51.4	71.0
LD10-10198	70.3	71.2	80.2	81.5	88.5	61.3	59.9	63.2
MLG03-4069017	63.3	49.8	74.0	70.1	87.7	54.2	54.0	72.0
U09-133021	66.9	56.7	72.9	84.2	99.1	58.6	43.3	70.1
U11-610107	73.2	62.1	73.9	76.9	94.2	59.6	51.3	75.6
U11-610109	71.6	64.4	72.3	82.1	98.8	58.1	56.1	73.0
U11-611112	72.6	55.8	75.2	75.5	89.2	59.3	52.2	66.6
U11-614119	70.7	60.1	91.6	82.7	103.0	58.7	65.9	68.8
U11-619102	69.9	69.9	83.6	85.3	107.2	59.3	48.0	72.6
U11-619104	72.4	68.3	82.3	73.3	99.4	62.9	52.7	78.0
U11-919011	68.5	62.9	79.7	77.3	99.0	49.2	61.0	68.2
U11-920017	71.6	70.2	75.4	87.6	102.2	57.3	60.4	76.3
Location Mean	69.0	59.2	75.7	77.2	95.4	56.8	55.1	70.0
C.V. (%)	3.0	11.1	6.5	7.3	4.8	15.2	7.7	7.1
L.S.D. (5%)	5.2	10.7	12.2	14.0	11.3	14.1	7.0	6.8
Row Sp (In.)	15	30	30	30	30	5	5	17
Rows/Plot	6	4	4	4	4	8	8	5
Reps	2	3	2	2	2	2	3	3

*Data not included in mean

Yield Rank

Strain	Yield Rank 13 Tests	Ames IA	Boone IA	Dekalb IL	Urbana IL	Lafayette IN	Wanatah IN	Ingham MI
IA2102 (II)	12	4	11	1	16	18	12	22
IA1022 (SCN)	27	7	26	20	26	25	21	6
IA3024	14	26	10	24	20	27	25	18
LD02-4485 (SCN)	21	27	17	26	14	3	8	20
IA2109	16	3	20	5	23	6	1	1
AR11-214001	6	22	5	6	6	2	6	7
AR12-228007	11	5	19	3	9	15	2	17
AR12-228047	20	19	23	17	15	4	18	10
AW10-653019	18	25	22	21	17	13	20	23
AW11-103013	19	6	24	23	28	11	5	15
AW11-203034	5	20	16	15	11	17	3	12
AW11-203039	23	14	25	22	22	14	15	21
E11401	28	17	27	28	27	28	24	8
E11431	26	18	21	27	24	26	27	2
LD10-5213a	3	1	14	10	4	5	7	14
LD10-5587a	17	2	4	25	18	12	28	25
LD10-5903a	25	15	18	11	25	7	19	6
LD10-10198	4	13	3	2	21	1	4	4
MLG03-4069017	22	23	15	14	13	21	13	9
U09-133021	15	8	2	9	12	24	17	5
U11-610107	7	16	7	8	2	20	16	3
U11-610109	8	10	13	13	3	9	14	13
U11-611112	24	28	28	7	7	23	22	24
U11-614119	2	12	6	4	5	19	10	5
U11-619102	9	21	8	16	19	8	23	19
U11-619104	10	11	12	18	10	10	26	8
U11-919011	13	24	9	19	8	16	9	16
U11-920017	1	9	1	12	1	22	11	11

Uniform Test II, 2014

Yield Rank

Strain	Lenawee MI	Lamberton MN	Cotesfield NE	Hooper NE	Phillips NE	Hoytville OH	Wooster OH	Chatham ONT
IA2102 (II)	1	26	11	10	14	2	12	14
IA1022 (SCN)	20	24	27	21	20	24	28	19
IA3024	13	23	3	8	2	23	9	5
LD02-4485 (SCN)	21	15	20	20	18	14	14	20
IA2109	2	15	28	19	13	15	17	18
AR11-214001	25	8	7	13	16	1	16	6
AR12-228007	15	13	8	16	15	10	22	7
AR12-228047	24	10	22	14	24	15	15	24
AW10-653019	28	21	1	23	7	15	6	27
AW11-103013	16	11	14	12	25	9	4	22
AW11-203034	18	18	6	10	5	4	11	1
AW11-203039	19	20	12	28	19	19	5	28
E11401	26	22	25	25	27	22	20	13
E11431	23	25	24	27	21	21	25	25
LD10-5213a	9	5	23	5	12	6	10	16
LD10-5587a	8	28	13	4	5	18	8	21
LD10-5903a	12	11	26	26	28	16	23	11
LD10-10198	11	1	9	8	23	5	7	26
MLG03-4069017	27	27	17	24	26	17	18	10
U09-133021	22	17	19	3	9	11	27	12
U11-610107	3	9	18	17	16	7	24	4
U11-610109	6	6	21	7	11	12	13	8
U11-611112	4	19	16	18	22	8	21	23
U11-614119	10	14	2	6	3	10	1	15
U11-619102	14	3	4	2	1	8	26	9
U11-619104	5	4	5	22	8	3	19	2
U11-919011	17	7	10	15	10	20	2	17
U11-920017	7	2	15	1	4	13	3	3

Maturity (date)

Strain	Mean 14 Tests	Ames IA	Boone IA	Dekalb IL	Urbana IL	Lafayette IN	Wanatah IN	Ingham MI
IA2102 (II)	9/28	9/28	10/6	9/24	9/19	9/22	9/30	10/8
IA1022 (SCN)	-5.1	2.5	-8.5	-8.0	-9.0	-3.7	-4.7	-4.0
IA3024	2.9	-3.0	4.5	4.0	4.0	1.0	-1.0	4.0
LD02-4485 (SCN)	-0.8	-2.0	2.0	-1.0	2.0	2.7	-1.0	-6.0
IA2109	-1.6	2.5	-3.5	-1.0	-5.0	-1.0	-1.3	3.0
AR11-214001	0.6	2.5	0.0	-1.0	1.0	2.0	0.0	4.0
AR12-228007	0.9	-1.5	2.0	2.0	1.0	4.7	2.3	3.0
AR12-228047	0.0	-1.0	4.5	-1.0	2.0	1.7	-1.0	1.0
AW10-653019	4.5	-4.0	2.0	6.0	6.0	6.0	7.3	3.0
AW11-103013	-2.3	3.0	-6.0	-5.0	-1.0	-1.3	-1.7	3.0
AW11-203034	1.0	-0.5	4.5	1.0	1.0	1.7	1.0	3.0
AW11-203039	1.1	-1.0	0.0	1.0	3.0	3.0	1.7	2.0
E11401	-0.6	-1.0	1.0	-4.0	0.0	-1.7	-2.0	1.0
E11431	-0.9	0.5	2.0	-5.0	-5.0	-2.0	-3.7	1.0
LD10-5213a	0.9	-3.5	4.5	-1.0	2.0	2.3	0.7	3.0
LD10-5587a	3.8	-5.0	7.0	3.0	3.0	5.0	5.7	3.0
LD10-5903a	-2.0	3.5	2.0	-4.0	-5.0	0.7	-3.0	0.0
LD10-10198	2.4	0.0	4.5	4.0	1.0	4.0	3.0	5.0
MLG03-4069017	-0.5	2.0	-3.0	-1.0	0.0	2.0	-2.0	2.0
U09-133021	0.8	-2.5	2.0	0.0	2.0	1.0	0.7	3.0
U11-610107	-0.5	-0.5	2.0	-1.0	1.0	-1.0	0.3	2.0
U11-610109	0.4	-1.5	1.0	-1.0	2.0	1.3	0.3	2.0
U11-611112	0.9	-2.0	2.0	0.0	4.0	2.7	-0.3	2.0
U11-614119	2.3	-2.5	2.0	2.0	3.0	3.0	3.3	5.0
U11-619102	1.8	0.0	1.0	0.0	4.0	4.0	-0.7	2.0
U11-619104	1.0	-0.5	1.0	1.0	3.0	1.0	-0.7	2.0
U11-919011	-1.1	0.0	2.0	-3.0	-2.0	0.0	-1.3	0.0
U11-920017	0.6	-1.5	-0.5	-1.0	1.0	0.3	0.7	1.0
Date Planted	5/25	5/18	5/23	5/20	5/21	5/26	5/30	6/10
Days To Mature	125.8	133.0	136.0	127.0	121.0	119.0	123.0	120.0

Uniform Test II, 2014

Maturity (date)

Strain	Lenawee MI	Lamberton MN	Cotesfield NE	Hooper NE	Phillips NE	Hoytville OH	Wooster OH	Chatham ONT
IA2102 (II)	10/6	10/7	.	9/25	9/24	9/24	9/21	10/4
IA1022 (SCN)	-5.0	-2.0	.	-4.0	-3.0	-4.3	-8.0	-7.0
IA3024	2.0	7.0	.	2.0	2.0	6.7	4.0	4.0
LD02-4485 (SCN)	-1.0	-4.0	.	-2.0	-2.0	2.3	-1.0	-3.0
IA2109	-3.0	-7.0	.	-3.0	1.0	1.0	-7.3	-3.0
AR11-214001	1.0	0.0	.	-2.0	-1.0	5.0	-1.3	-2.0
AR12-228007	1.0	1.0	.	-3.0	-3.0	5.7	-1.0	-2.0
AR12-228047	-1.0	0.0	.	-2.0	-1.0	2.0	-1.0	-3.0
AW10-653019	5.0	8.0	.	2.0	3.0	8.0	3.7	7.0
AW11-103013	-3.0	-8.0	.	-5.0	-1.0	-2.0	-3.7	-6.0
AW11-203034	1.0	-1.0	.	-2.0	-2.0	4.3	0.0	0.0
AW11-203039	2.0	2.0	.	-1.0	-2.0	5.0	1.3	-2.0
E11401	0.0	2.0	.	-1.0	1.0	2.0	-6.0	0.0
E11431	-1.0	2.0	.	-2.0	1.0	4.3	-4.3	-1.0
LD10-5213a	0.0	3.0	.	0.0	-1.0	4.3	1.0	-3.0
LD10-5587a	2.0	8.0	.	3.0	4.0	6.7	2.0	6.0
LD10-5903a	-1.0	-3.0	.	-4.0	-2.0	-1.3	-7.3	-5.0
LD10-10198	4.0	5.0	.	-1.0	0.0	5.3	-0.3	-1.0
MLG03-4069017	-1.0	-6.0	.	-3.0	-1.0	2.3	-1.3	-2.0
U09-133021	0.0	2.0	.	0.0	-2.0	4.7	1.0	-1.0
U11-610107	-1.0	-1.0	.	-3.0	-2.0	2.0	-1.3	-4.0
U11-610109	2.0	-1.0	.	-2.0	-1.0	3.0	0.0	-1.0
U11-611112	2.0	5.0	.	-1.0	0.0	2.3	-1.7	-2.0
U11-614119	2.0	5.0	.	1.0	0.0	6.7	1.0	0.0
U11-619102	3.0	5.0	.	-1.0	1.0	6.3	1.3	-1.0
U11-619104	2.0	6.0	.	-2.0	-3.0	4.7	0.3	-1.0
U11-919011	-1.0	2.0	.	-3.0	-1.0	-1.0	-2.7	-4.0
U11-920017	0.0	6.0	.	-1.0	1.0	3.7	-0.7	0.0
Date Planted	6/9	5/15	5/19	5/17	5/20	5/31	5/23	6/3
Days To Mature	119.0	145.0	.	131	127	116	121	123

Lodging (score)

Strain	Mean 14 Tests	Ames IA	Boone IA	Dekalb IL	Urbana IL	Lafayette IN	Wanatah IN	Ingham MI
IA2102 (II)	2.3	3.0	3.0	2.0	1.8	2.2	2.3	5.0
IA1022 (SCN)	1.6	2.5	1.0	1.8	2.0	1.2	1.3	3.0
IA3024	1.7	2.5	1.0	1.8	1.5	1.2	1.2	3.5
LD02-4485 (SCN)	1.8	2.8	1.5	2.0	1.8	1.3	1.8	4.0
IA2109	1.5	2.5	1.0	1.8	1.5	1.2	1.2	2.5
AR11-214001	1.5	2.5	1.5	1.8	1.5	1.0	1.3	2.5
AR12-228007	1.4	2.3	1.0	1.5	1.3	1.0	1.0	3.5
AR12-228047	1.6	2.8	1.5	1.8	1.5	1.3	1.5	2.0
AW10-653019	2.0	3.0	2.0	2.3	1.3	1.3	1.3	4.0
AW11-103013	1.6	2.8	2.0	1.3	1.0	1.3	1.3	3.5
AW11-203034	1.8	3.3	1.5	2.0	1.8	1.5	1.5	3.0
AW11-203039	1.5	2.5	1.0	1.8	1.3	1.0	1.3	3.5
E11401	1.3	2.8	1.0	1.3	1.3	1.0	1.2	1.0
E11431	1.4	2.5	1.0	1.3	1.5	1.5	1.2	1.5
LD10-5213a	1.6	3.0	1.5	1.5	1.5	1.2	1.5	3.0
LD10-5587a	2.0	3.3	3.0	2.5	1.5	1.0	2.7	4.5
LD10-5903a	1.9	2.5	2.5	1.8	1.5	1.3	2.0	3.5
LD10-10198	1.3	2.3	1.0	1.0	1.0	1.2	1.0	2.0
MLG03-4069017	1.5	2.0	1.0	2.0	1.5	1.2	1.5	2.5
U09-133021	1.8	3.0	2.0	1.8	1.5	1.0	2.3	3.5
U11-610107	1.8	2.8	2.0	2.3	1.5	1.2	2.2	4.0
U11-610109	1.7	2.5	1.0	2.0	1.8	1.5	1.8	2.5
U11-611112	2.2	2.8	2.5	2.0	2.0	1.7	2.0	5.0
U11-614119	1.4	2.5	1.0	1.3	1.5	1.0	1.0	2.0
U11-619102	1.4	2.5	1.0	2.0	1.5	1.0	1.0	1.5
U11-619104	1.4	2.3	1.0	1.8	1.3	1.2	1.3	1.5
U11-919011	1.9	3.5	1.5	2.5	1.5	1.3	1.8	3.0
U11-920017	1.6	2.8	1.0	2.0	1.3	1.3	1.8	3.5

Uniform Test II, 2014

Lodging (score)

Strain	Lenawee MI	Lamberton MN	Hooper NE	Phillips NE	Hoytville OH	Wooster OH	Chatham ONT
IA2102 (II)	3.0	2.0	1.0	2.0	1.0	1.0	2.7
IA1022 (SCN)	2.0	1.0	1.0	1.8	1.0	1.0	1.7
IA3024	3.0	1.0	1.5	1.0	1.0	1.0	2.0
LD02-4485 (SCN)	2.0	1.0	1.0	1.3	1.0	1.0	2.3
IA2109	2.5	1.0	1.3	1.3	1.0	1.0	2.0
AR11-214001	1.0	1.0	1.3	1.0	1.0	1.0	2.0
AR12-228007	2.0	1.0	1.0	1.0	1.0	1.0	1.3
AR12-228047	2.5	1.0	1.3	1.3	1.0	1.0	2.0
AW10-653019	4.0	1.0	1.0	1.5	1.0	1.0	3.3
AW11-103013	2.0	1.0	1.0	1.0	1.0	1.0	2.0
AW11-203034	3.0	1.0	1.3	1.3	1.0	1.0	2.7
AW11-203039	2.0	1.0	1.0	1.3	1.0	1.0	2.0
E11401	1.5	1.0	1.3	1.3	1.0	1.0	1.3
E11431	1.0	1.0	1.0	1.5	1.0	1.0	2.0
LD10-5213a	2.0	2.0	1.0	1.3	1.0	1.0	1.7
LD10-5587a	3.0	1.0	1.0	1.0	1.0	1.0	2.0
LD10-5903a	2.5	2.0	1.0	1.5	1.0	1.0	2.0
LD10-10198	2.0	1.0	1.3	1.0	1.0	1.0	2.0
MLG03-4069017	2.0	1.0	1.5	1.0	1.0	1.0	2.0
U09-133021	2.0	1.0	1.0	1.5	1.0	1.0	2.0
U11-610107	2.0	1.0	1.0	1.3	1.0	1.0	2.0
U11-610109	2.5	1.0	1.0	1.5	1.0	1.0	2.0
U11-611112	2.5	2.0	1.3	2.8	1.0	1.0	2.7
U11-614119	2.0	1.0	1.5	1.0	1.0	1.0	2.0
U11-619102	1.5	1.0	1.3	1.0	1.0	1.0	1.7
U11-619104	1.5	1.0	1.3	1.0	1.0	1.0	2.0
U11-919011	2.5	2.0	1.0	1.3	1.0	1.0	2.3
U11-920017	1.0	1.0	1.3	1.0	1.0	1.0	2.0

Uniform Test II, 2014

Plant Height (inches)

Strain	Mean 13 Tests	Ames IA	Boone IA	Dekalb IL	Urbana IL	Lafayette IN	Wanatah IN
IA2102 (II)	33.6	39.5	36.5	35.0	33.0	31.7	30.7
IA1022 (SCN)	30.5	39.0	33.0	34.0	28.0	28.3	28.0
IA3024	34.4	39.0	38.0	37.0	36.0	33.3	33.7
LD02-4485 (SCN)	33.1	37.0	34.5	36.0	32.0	33.7	35.0
IA2109	34.7	37.5	33.0	39.0	34.0	35.3	35.0
AR11-214001	30.5	35.5	33.0	33.0	34.0	28.0	28.3
AR12-228007	32.1	38.0	34.0	34.0	33.0	29.3	30.7
AR12-228047	33.2	39.0	37.0	36.0	34.0	32.7	32.3
AW10-653019	33.3	40.0	35.5	36.0	32.0	31.3	32.0
AW11-103013	30.1	34.5	29.0	30.0	28.0	28.3	30.0
AW11-203034	32.7	38.0	36.5	34.0	31.0	31.7	31.7
AW11-203039	32.8	39.0	31.5	36.0	33.0	30.7	32.0
E11401	33.0	40.0	30.5	34.0	31.0	31.0	33.3
E11431	33.7	38.0	35.5	36.0	32.0	31.3	33.0
LD10-5213a	32.2	36.5	35.5	33.0	32.0	31.7	31.7
LD10-5587a	33.0	39.0	36.0	35.0	33.0	33.0	31.7
LD10-5903a	32.6	39.5	35.0	36.0	30.0	30.5	30.3
LD10-10198	33.9	37.0	37.5	34.0	33.0	33.0	34.3
MLG03-4069017	36.1	39.5	37.5	39.0	35.0	34.7	32.7
U09-133021	33.2	36.5	35.0	35.0	34.0	30.7	32.0
U11-610107	32.5	36.5	34.5	34.0	33.0	31.3	31.7
U11-610109	34.5	36.5	38.5	40.0	33.0	31.3	34.0
U11-611112	36.5	42.0	40.0	38.0	35.0	33.7	37.3
U11-614119	33.1	39.0	34.0	35.0	33.0	31.7	31.7
U11-619102	33.2	40.0	34.0	36.0	33.0	31.3	32.0
U11-619104	32.6	37.5	35.0	35.0	31.0	30.0	33.3
U11-919011	35.1	30.0	39.5	39.0	35.0	34.3	36.7
U11-920017	31.2	35.0	33.0	33.0	33.0	30.3	29.0

Uniform Test II, 2014

Plant Height (inches)

Strain	Ingham MI	Lenawee MI	Lamberton MN	Phillips NE	Hoytville OH	Wooster OH	Chatham ONT
IA2102 (II)	36.0	39.0	31.0	36.8	26.7	24.0	37.7
IA1022 (SCN)	34.0	34.0	29.0	32.5	20.7	17.3	38.2
IA3024	37.0	39.0	31.0	35.5	22.0	24.0	41.2
LD02-4485 (SCN)	36.0	38.0	30.0	33.0	22.7	24.0	37.9
IA2109	39.0	41.0	32.0	36.5	24.0	24.0	40.6
AR11-214001	32.0	32.0	30.0	31.0	21.3	21.3	37.4
AR12-228007	34.0	37.0	29.0	32.5	23.3	22.7	40.4
AR12-228047	35.0	37.0	31.0	34.5	23.3	23.3	36.6
AW10-653019	36.0	39.0	32.0	34.5	22.7	22.7	39.1
AW11-103013	33.0	34.0	30.0	31.3	23.3	22.7	37.5
AW11-203034	32.0	38.0	32.0	35.5	22.0	22.7	39.8
AW11-203039	36.0	37.0	30.0	33.0	24.7	24.0	39.6
E11401	36.0	38.0	32.0	36.5	22.7	24.7	39.5
E11431	35.0	38.0	31.0	37.8	23.3	24.0	42.7
LD10-5213a	33.0	34.0	29.0	36.0	22.7	24.7	38.3
LD10-5587a	36.0	37.0	29.0	33.0	24.0	23.3	39.0
LD10-5903a	35.0	37.0	28.0	35.0	23.3	22.7	41.1
LD10-10198	35.0	39.0	31.0	36.5	26.0	24.7	39.1
MLG03-4069017	42.0	42.0	32.0	39.0	26.7	24.7	44.9
U09-133021	35.0	38.0	31.0	39.3	22.7	22.0	40.0
U11-610107	35.0	37.0	31.0	34.0	24.0	20.7	39.6
U11-610109	34.0	40.0	33.0	36.8	24.7	25.3	41.6
U11-611112	41.0	44.0	34.0	39.5	26.0	25.3	38.6
U11-614119	35.0	37.0	30.0	35.0	24.7	24.0	39.9
U11-619102	36.0	37.0	31.0	35.5	22.0	22.0	41.2
U11-619104	35.0	35.0	31.0	33.5	23.3	24.7	39.4
U11-919011	36.0	41.0	34.0	39.8	23.3	25.3	42.5
U11-920017	33.0	33.0	30.0	32.0	22.0	22.7	39.8

Uniform Test II, 2014

Seed Quality (score)

Strain	Mean 10 Tests	Boone IA	Dekalb IL	Urbana IL	Lafayette IN	Wanatah IN
IA2102 (II)	1.8	2.0	3.0	3.0	2.0	2.0
IA1022 (SCN)	1.5	1.0	3.0	2.0	1.0	1.0
IA3024	1.4	2.0	1.0	2.0	2.0	1.0
LD02-4485 (SCN)	1.8	2.0	2.0	3.0	2.0	1.5
IA2109	1.7	2.0	3.0	3.0	1.0	1.0
AR11-214001	1.5	2.0	2.0	2.0	2.0	1.0
AR12-228007	1.3	1.0	2.0	3.0	1.0	1.0
AR12-228047	1.5	2.0	2.0	3.0	1.0	1.0
AW10-653019	1.7	2.0	1.0	3.0	2.0	1.5
AW11-103013	1.7	2.0	3.0	2.0	2.0	1.0
AW11-203034	2.0	2.0	3.0	3.0	2.0	2.0
AW11-203039	1.8	2.0	3.0	3.0	2.0	1.0
E11401	1.4	1.0	2.0	2.0	1.0	1.0
E11431	1.5	1.0	2.0	2.0	2.0	1.0
LD10-5213a	1.6	2.0	2.0	3.0	2.0	1.0
LD10-5587a	1.6	2.0	1.0	3.0	2.0	1.0
LD10-5903a	1.6	2.0	3.0	2.0	1.0	1.0
LD10-10198	1.5	2.0	2.0	3.0	1.0	1.0
MLG03-4069017	1.4	2.0	1.0	1.0	2.0	1.0
U09-133021	1.3	2.0	2.0	1.0	1.0	1.0
U11-610107	1.5	1.0	2.0	2.0	2.0	1.0
U11-610109	1.4	2.0	2.0	2.0	1.0	1.0
U11-611112	1.7	2.0	3.0	3.0	1.0	1.0
U11-614119	1.3	2.0	1.0	2.0	1.0	1.0
U11-619102	1.4	2.0	1.0	1.0	2.0	1.0
U11-619104	1.2	2.0	1.0	1.0	1.0	1.0
U11-919011	1.4	2.0	1.0	1.0	2.0	1.0
U11-920017	1.6	2.0	3.0	3.0	1.0	1.0

Uniform Test II, 2014

Seed Quality (score)

Strain	Lamberton MN	Phillips NE	Hoytville OH	Wooster OH	Chatham ONT
IA2102 (II)	1.0	2.0	1.0	1.0	1.3
IA1022 (SCN)	2.0	2.0	1.0	1.0	1.0
IA3024	1.0	2.0	1.0	1.0	1.0
LD02-4485 (SCN)	2.0	2.0	1.0	1.0	1.7
IA2109	2.0	2.0	1.0	1.0	1.3
AR11-214001	1.0	2.0	1.0	1.0	1.0
AR12-228007	1.0	1.0	1.0	1.0	1.0
AR12-228047	1.0	2.0	1.0	1.0	1.0
AW10-653019	2.0	2.0	1.0	1.0	1.0
AW11-103013	2.0	2.0	1.0	1.0	1.0
AW11-203034	3.0	2.0	1.0	1.0	1.0
AW11-203039	2.0	2.0	1.0	1.0	1.0
E11401	2.0	2.0	1.0	1.0	1.0
E11431	2.0	2.0	1.0	1.0	1.0
LD10-5213a	1.0	2.0	1.0	1.0	1.0
LD10-5587a	1.0	2.0	1.0	1.0	1.7
LD10-5903a	2.0	2.0	1.0	1.0	1.3
LD10-10198	1.0	2.0	1.0	1.0	1.3
MLG03-4069017	1.0	2.0	1.0	1.0	1.7
U09-133021	1.0	2.0	1.0	1.0	1.3
U11-610107	2.0	2.0	1.0	1.0	1.0
U11-610109	1.0	2.0	1.0	1.0	1.3
U11-611112	2.0	2.0	1.0	1.0	1.3
U11-614119	1.0	2.0	1.0	1.0	1.0
U11-619102	1.0	2.0	1.0	1.0	2.0
U11-619104	1.0	2.0	1.0	1.0	1.0
U11-919011	1.0	2.0	1.0	1.0	1.7
U11-920017	1.0	2.0	1.0	1.0	1.0

Uniform Test II, 2014

Seed size (g/100)

Strain	Mean 10 Tests	Ames IA	Dekalb IL	Urbana IL	Lafayette IN	Ingham MI
IA2102 (II)	17.0	17.1	19.3	16.9	12.6	17.2
IA1022 (SCN)	16.7	17.1	18.5	15.5	14.3	15.8
IA3024	17.6	19.6	18.7	16.8	13.9	17.3
LD02-4485 (SCN)	15.4	15.5	16.3	14.5	13.3	15.7
IA2109	18.1	17.6	20.2	17.4	14.8	17.7
AR11-214001	18.5	18.9	20.3	17.8	15.2	19.0
AR12-228007	17.2	16.6	18.5	16.2	14.8	17.0
AR12-228047	15.6	15.4	17.0	14.9	14.2	14.6
AW10-653019	15.5	15.9	15.4	14.6	13.9	14.9
AW11-103013	17.4	18.4	19.4	17.1	12.7	16.5
AW11-203034	18.1	18.9	19.5	17.2	14.9	17.0
AW11-203039	17.9	18.5	20.0	17.4	16.5	17.5
E11401	17.7	18.1	18.6	16.9	14.2	17.6
E11431	17.4	17.8	18.7	16.7	14.1	18.0
LD10-5213a	17.3	17.9	18.7	17.0	14.5	16.4
LD10-5587a	18.4	20.2	18.7	17.4	15.9	16.7
LD10-5903a	18.0	18.0	19.8	17.5	16.8	18.7
LD10-10198	15.1	15.6	16.3	13.7	13.1	15.2
MLG03-4069017	19.0	18.6	20.4	18.9	15.5	18.2
U09-133021	16.2	16.5	17.9	15.5	11.9	16.5
U11-610107	17.2	17.9	17.5	16.5	13.6	16.5
U11-610109	16.5	16.5	17.0	15.6	13.5	16.4
U11-611112	15.0	15.3	15.7	14.6	11.4	14.4
U11-614119	17.1	17.4	18.8	16.6	12.4	16.8
U11-619102	16.1	16.0	16.7	15.3	13.2	14.8
U11-619104	15.8	16.3	16.2	15.7	12.2	15.0
U11-919011	16.3	17.2	16.3	15.7	12.3	15.9
U11-920017	18.5	19.0	19.7	18.3	14.8	18.5

Uniform Test II, 2014

Seed size (g/100)

Strain	Lamberton MN	Phillips NE	Hoytville OH	Wooster OH	Chatham ONT
IA2102 (II)	16.0	19.5	17.4	15.4	18.2
IA1022 (SCN)	16.9	20.1	16.7	15.3	17.1
IA3024	17.3	20.1	16.7	16.8	19.3
LD02-4485 (SCN)	15.6	16.6	16.0	14.2	16.2
IA2109	18.1	21.2	18.7	17.2	18.5
AR11-214001	18.1	20.7	17.6	17.3	20.1
AR12-228007	17.7	18.0	18.4	15.2	19.1
AR12-228047	15.4	16.9	15.7	15.0	16.7
AW10-653019	16.1	16.4	15.2	14.4	18.2
AW11-103013	17.8	19.4	17.4	16.3	18.6
AW11-203034	19.3	20.0	18.2	16.8	19.1
AW11-203039	17.7	19.0	16.6	16.3	19.4
E11401	19.5	18.8	16.8	17.5	18.9
E11431	18.5	19.2	17.1	16.7	17.4
LD10-5213a	17.6	19.2	16.9	16.0	19.0
LD10-5587a	19.1	20.0	18.1	18.0	19.5
LD10-5903a	18.0	18.6	16.8	16.1	19.8
LD10-10198	15.6	15.8	15.3	14.6	16.2
MLG03-4069017	19.2	21.3	18.2	19.4	20.6
U09-133021	16.4	18.4	16.7	15.1	17.6
U11-610107	17.6	20.0	18.1	16.0	18.1
U11-610109	16.5	18.8	17.3	15.2	17.8
U11-611112	15.8	17.3	14.7	14.3	16.7
U11-614119	18.0	18.8	17.8	15.7	18.5
U11-619102	16.5	18.4	16.8	15.3	17.6
U11-619104	16.9	17.8	16.2	14.7	16.9
U11-919011	17.4	20.0	15.8	15.6	16.9
U11-920017	18.3	21.4	18.1	17.1	20.0

Uniform Test II, 2014

Protein (%)

Strain	Mean 10 Tests	Ames IA	Dekalb IL	Urbana IL	Lafayette IN	Ingham MI	Lamberton MN	Phillips NE	Hoytville OH	Wooster OH	Chatham ONT*
IA2102 (II)	35.4	35.5	35.3	34.0	35.4	36.0	35.5	35.1	34.9	36.4	36.1
IA1022 (SCN)	34.1	34.6	34.7	32.7	34.0	34.6	32.9	34.0	33.4	35.5	35.0
IA3024	34.3	35.1	34.2	32.4	33.7	35.5	33.2	34.4	32.5	35.8	36.5
LD02-4485 (SCN)	33.5	34.1	34.4	32.2	33.9	34.8	33.0	32.7	32.0	33.4	34.8
IA2109	35.7	35.8	36.2	33.9	35.7	36.8	34.8	35.6	34.7	36.0	37.1
AR11-214001	35.1	35.5	35.6	34.3	33.9	36.3	34.2	34.7	33.8	36.2	37.0
AR12-228007	35.7	35.5	35.7	35.2	35.0	36.8	35.1	35.3	34.9	36.6	37.1
AR12-228047	33.7	34.3	34.2	32.6	34.1	34.4	33.3	33.0	32.4	34.3	34.7
AW10-653019	35.3	35.8	35.3	34.4	34.9	35.6	35.1	35.4	33.7	36.0	36.3
AW11-103013	36.4	36.0	36.3	34.3	36.1	37.7	35.8	35.7	35.8	37.5	38.6
AW11-203034	36.7	36.2	36.5	35.4	37.3	37.6	36.5	35.9	35.3	37.6	38.5
AW11-203039	36.4	36.7	36.1	35.3	36.1	38.1	36.2	35.7	35.2	37.4	37.7
E11401	34.6	34.6	35.2	33.8	34.6	34.9	34.9	34.0	32.7	36.7	35.0
E11431	34.9	35.1	34.9	34.1	34.5	35.4	34.8	34.7	33.2	37.1	35.0
LD10-5213a	34.3	34.5	35.1	33.5	34.7	35.0	34.1	33.6	32.4	35.5	35.0
LD10-5587a	34.4	35.4	34.3	33.8	33.1	34.3	34.4	34.2	34.2	35.4	35.2
LD10-5903a	36.6	37.1	36.8	35.1	36.6	37.0	36.7	36.1	35.2	37.9	37.8
LD10-10198	35.2	34.7	35.5	33.9	35.3	35.6	35.7	34.3	34.2	36.1	36.2
MLG03-4069017	35.9	35.6	36.3	34.7	36.1	36.6	34.3	35.8	35.4	37.4	36.9
U09-133021	34.0	34.7	33.5	32.9	34.1	34.8	33.6	33.5	32.3	35.2	35.6
U11-610107	34.7	34.4	34.2	34.5	34.9	35.3	34.1	34.8	33.9	35.5	35.4
U11-610109	34.4	34.7	33.9	33.1	34.2	35.9	34.0	34.7	32.9	35.0	35.8
U11-611112	33.7	34.6	33.5	32.7	32.9	34.3	34.3	33.4	31.8	34.7	34.2
U11-614119	34.7	35.3	35.3	33.1	34.6	35.5	35.5	33.9	33.3	35.4	35.4
U11-619102	34.2	34.6	34.4	32.5	34.4	35.2	34.1	33.9	32.2	35.2	35.4
U11-619104	34.1	34.9	33.7	33.0	34.9	34.9	33.6	33.7	32.4	34.9	35.1
U11-919011	34.3	34.8	33.8	32.8	34.4	34.8	34.0	34.4	33.1	35.6	35.0
U11-920017	33.8	34.6	34.0	32.7	33.4	34.6	33.2	33.3	33.0	34.7	34.8

*Protein and Oil values converted to 13% moisture basis

Uniform Test II, 2014

Oil (%)

Strain	Mean 10 Tests	Ames IA	Dekalb IL	Urbana IL	Lafayette IN	Ingham MI	Lamberton MN	Phillips NE	Hoytville OH	Wooster OH	Chatham ONT*
IA2102 (II)	18.5	18.3	18.7	19.5	19.0	17.7	18.0	18.3	19.3	19.0	17.5
IA1022 (SCN)	20.0	19.6	19.9	21.1	20.7	18.8	19.7	20.0	20.8	20.3	19.5
IA3024	19.0	18.7	19.7	20.7	19.7	16.9	18.7	19.1	20.3	19.3	17.3
LD02-4485 (SCN)	19.2	18.8	19.5	20.1	19.8	17.8	18.4	19.5	20.2	19.5	18.3
IA2109	18.5	18.4	18.6	19.9	19.1	16.6	18.2	18.7	19.4	19.0	16.7
AR11-214001	18.9	18.7	19.1	19.8	20.0	17.6	18.4	19.1	19.8	19.3	17.1
AR12-228007	18.8	18.8	19.2	19.7	19.6	17.0	18.1	18.9	19.9	19.5	17.2
AR12-228047	19.3	19.1	19.5	20.4	19.8	18.2	18.3	19.2	20.4	19.5	18.7
AW10-653019	18.1	18.1	18.4	19.2	18.8	16.0	17.5	18.1	19.3	18.5	16.9
AW11-103013	18.8	18.8	18.9	20.1	19.4	17.0	18.5	18.8	19.6	19.3	17.1
AW11-203034	18.8	18.8	19.3	20.2	19.5	17.2	18.2	19.1	19.8	19.5	16.9
AW11-203039	18.3	18.3	18.8	19.5	19.2	16.1	17.7	18.6	19.1	18.9	16.5
E11401	19.0	18.9	19.2	19.8	19.4	17.8	18.2	18.9	19.9	19.1	18.4
E11431	19.0	18.7	19.2	20.0	19.6	17.6	18.5	19.0	19.8	19.0	18.4
LD10-5213a	19.3	19.2	19.5	20.5	19.9	17.7	18.3	19.3	20.4	19.6	18.5
LD10-5587a	19.3	18.9	19.4	20.5	20.5	17.8	18.6	19.2	19.8	20.0	18.3
LD10-5903a	18.6	18.5	18.8	19.9	19.3	17.5	17.0	18.9	19.5	18.8	17.4
LD10-10198	18.1	18.4	18.2	19.4	18.7	16.4	17.2	18.3	18.6	18.8	16.9
MLG03-4069017	19.0	19.0	19.2	20.2	19.7	17.1	19.0	19.1	19.3	19.4	17.7
U09-133021	19.5	19.1	20.1	20.6	20.1	18.1	19.0	19.6	20.6	19.8	18.4
U11-610107	19.5	19.3	19.8	20.1	20.0	18.0	19.0	19.4	20.3	19.8	18.8
U11-610109	19.5	19.2	19.9	20.5	20.1	17.8	18.7	19.4	20.6	19.9	18.5
U11-611112	19.4	18.8	19.6	20.4	20.2	18.3	18.2	19.2	20.6	19.7	18.9
U11-614119	18.8	18.7	19.0	20.3	19.2	17.5	17.2	19.1	19.9	19.5	18.1
U11-619102	18.7	18.6	19.0	19.6	19.4	17.6	17.5	18.7	19.8	19.3	17.8
U11-619104	18.7	18.6	19.0	19.6	18.7	17.4	18.0	18.8	19.6	19.2	17.8
U11-919011	19.1	18.6	19.4	19.9	19.6	18.1	18.2	19.1	20.1	19.3	18.7
U11-920017	19.4	19.1	19.6	20.2	20.4	18.0	18.9	19.5	20.0	19.6	18.5

*Protein and Oil values converted to 13% moisture basis

Preliminary Test IIA, 2014

Ent.	Strain	Parentage	Seed Source	Previous Testing	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.	AR12-228071	AR05-250101 x Golden Harvest H-2285	Cianzio	F4	SCN
5.	AR13-232001	AR05-250002 x Syngenta 04KL108370	Cianzio	F5	7% saturates
6.	AR13-232013	Syngenta 03JR101916 x IAR2001 BSR	Cianzio	F5	BSR
7.	AR13-232102	AR07-176075 x Syngenta 03JR321088	Cianzio	F4	BSR
8.	AW12-701015	Dairyland 75170 x IA2079	Fehr	F4	Phyto
9.	AW12-701024	IA2079 x Syngenta 03JR101916	Fehr	F4	1% linolenic
10.	AW12-702029	A08-252033 x A06-712040	Fehr	F4	7% saturates
11.	AW12-801020	IA3042 x Dairyland 75170	Fehr	F4	7% saturates
12.	E12007	E00003 x U03-300134	Wang	F5	7% saturates
13.	E12020	E05053 x E00003	Wang	F5	
14.	E12023	E05053 x U03-300134	Wang	F5	
15.	E12034	IA3023 x E00003	Wang	F5	Rag2, SCN
16.	E12042	IA3023 x E00003	Wang	F5	SCN, aphid Rag 1
17.	E12061	U03-300134 x Skylla	Wang	F5	SCN
18.	E12076	LD01-7323 x U01-390489	Wang	F5	PI
19.	E12084	LG03-3020 x LG03-3780	Wang	F5	
20.	E12247	E00003 x E09932	Wang	F5	SCN
21.	E12377	E07048 x E08242	Wang	F4	SCN
22.	E12397	E08929 x E08902	Wang	F6	SCN HR, NR
23.	M08-608015	R01-52F X MN0094SP	Orf	F5	SCN,Rps1k
24.	M08-608018	R01-52F X MN0094SP	Orf	F5	SCN,Rps1k
25.	M08-608106	R01-52F X MN0094SP	Orf	F5	SCN,Rps1k
26.	MLG03-4069017	A99-217006 x LG98-1445	Orf	F5	SCN LR LR, Rps1k
27.	MLG07-6251013		Orf	F5	SCN,Rps1k

Preliminary Test IIA, 2014

Descriptive Code

Strain	Descriptive Code
IA 2102 (II)	WGTDYYI
IA1022 (SCN)	PGTSYYI
IA3024	PGTIYIbI
LD02-4485 (SCN)	PGBDYIbI
IA2109	PTTDYBrI
AR11-214001	WLtBDYBlI
AR12-228007	PT+GBDYBl+BfI
AR12-228047	PGBDYBlI
AW10-653019	PTBDYBlI
AW11-103013	WGTIYY+BfI
AW11-203034	WGBDYDbfI
AW11-203039	PGBDYIbI
E11401	PTBDYBrI
LD10-5213a	PTBDYBlI
LD10-5587a	PGBDYIbI
LD10-5903a	WGBDYDbfI
LD10-10198	PGT+BDYIbI
MLG03-4069017	WGTDYYI
U09-133021	WTBIYBlI
U11-610107	PTBDYBlI
U11-610109	PGBIYGI
U11-611112	PTTIYGI
U11-614119	WGBDYBfI
U11-619102	WGBDYLbfI
U11-619104	PTTDYBrI
U11-919011	PTBDYBlI
U11-920017	PTBDYBrI

Preliminary Test IIA, 2014

Regional Summary

	Yield	Rank	Maturity	Lodging	Plant Height	Seed Quality	Seed Size	Composition	
								Protein	Oil
No. of Tests	10	10	8	9	8	7	8	7	7
Strain	bu/a	No.	Date	Score	In	Score	g/100	(%)	(%)
IA 2102 (II)	70.5	2	9/26	2.0	32.7	1.3	17.1	35.4	18.6
IA1022 (SCN)	60.6	24	-5.3	1.5	28.6	1.6	16.7	34.3	20.1
IA3024	68.3	7	3.3	1.3	32.4	1.6	17.1	34.5	18.9
AR12-228071	67.5	9	-0.2	1.6	36.8	1.7	15.4	34.6	18.5
AR13-232001	69.4	4	1.0	1.8	38.2	1.7	17.5	34.5	18.9
AR13-232013	66.7	12	1.3	1.5	34.3	1.1	15.9	36.9	18.7
AR13-232102	68.3	6	0.8	1.3	32.3	1.3	17.3	35.8	18.4
AW12-701015	61.7	23	-4.0	1.2	29.6	1.6	14.2	35.8	18.4
AW12-701024	64.9	18	-1.0	1.3	29.7	1.6	17.6	36.4	19.2
AW12-702029	64.9	19	0.8	2.2	32.6	1.6	17.2	36.0	17.7
AW12-801020	65.6	16	1.2	1.5	30.5	1.3	14.0	34.9	18.4
E12007	66.2	15	2.6	1.4	36.0	1.7	14.7	36.1	18.5
E12020	70.5	1	4.1	1.5	34.1	1.6	17.0	34.9	19.0
E12023	67.4	10	2.6	1.3	32.6	1.8	14.7	35.3	18.4
E12034	68.0	8	5.5	1.4	31.8	1.6	16.5	34.6	18.7
E12042	70.3	3	2.1	2.1	35.7	2.1	16.0	34.4	19.1
E12061	66.4	14	-0.1	1.1	29.9	1.4	16.0	35.0	19.0
E12076	64.0	22	5.4	1.7	33.1	1.7	18.1	35.2	18.7
E12084	69.0	5	2.9	1.6	36.8	1.7	15.1	35.2	18.2
E12247	67.0	11	4.5	2.0	42.1	1.8	16.1	34.7	18.7
E12377	65.5	17	2.1	2.3	33.0	1.4	16.7	35.0	19.3
E12397	66.4	13	-2.7	1.8	32.2	1.6	17.2	35.8	19.0
M08-608015	54.8	27	5.9	1.6	29.9	1.6	16.7	35.3	18.8
M08-608018	55.9	25	-6.5	1.4	27.4	1.3	16.9	34.9	19.2
M08-608106	55.4	26	-3.4	1.4	30.3	1.9	17.8	35.6	18.8
MLG03-4069017	64.4	21	-1.6	1.5	33.7	1.6	19.0	36.4	19.0
MLG07-6251013	64.7	20	-1.3	1.5	32.7	1.4	17.3	35.9	19.1

123.4 Days After Planting

Preliminary Test IIA, 2014

Yield (bu/a)

Strain	Mean 10 Tests	Boone IA	Urbana IL	Lafayette IN	Ingham MI	Cotesville NE
IA 2102 (II)	70.5	70.1	65.2	72.0	58.9	78.8
IA1022 (SCN)	60.6	63.8	53.7	52.6	54.0	61.9
IA3024	68.3	60.9	70.7	52.8	46.9	76.1
AR12-228071	67.5	67.1	58.7	60.0	56.7	67.3
AR13-232001	69.4	70.3	67.3	64.7	55.8	70.2
AR13-232013	66.7	63.3	72.8	67.8	52.7	67.1
AR13-232102	68.3	66.2	69.8	62.8	48.6	88.2
AW12-701015	61.7	65.3	59.0	52.5	42.0	75.6
AW12-701024	64.9	64.8	66.8	62.7	41.0	80.2
AW12-702029	64.9	63.3	59.9	62.2	54.6	76.1
AW12-801020	65.6	61.3	63.2	45.9	52.7	84.9
E12007	66.2	64.4	66.5	42.2	51.4	74.9
E12020	70.5	64.2	71.0	57.3	51.8	82.4
E12023	67.4	67.9	67.8	51.2	47.8	72.5
E12034	68.0	64.6	67.5	54.2	47.9	83.3
E12042	70.3	71.7	65.0	67.0	54.2	71.6
E12061	66.4	65.4	66.6	55.9	34.8	78.3
E12076	64.0	63.6	63.3	55.5	54.9	50.3
E12084	69.0	69.2	69.8	67.4	44.4	71.0
E12247	67.0	70.3	65.6	55.4	50.7	76.1
E12377	65.5	57.7	64.3	61.3	48.3	68.1
E12397	66.4	72.8	64.2	48.8	53.8	68.4
M08-608015	54.8	38.3	48.8	53.4	32.0	52.7
M08-608018	55.9	60.0	56.1	56.3	51.9	32.7
M08-608106	55.4	48.6	56.6	45.5	45.4	46.4
MLG03-4069017	64.4	60.6	63.3	56.1	58.5	68.4
MLG07-6251013	64.7	53.3	63.4	56.2	49.8	75.3
Location Mean		63.3	64.0	57.0	49.7	70.3
C.V. (%)		7.3	5.8	14.8	9.4	9.1
L.S.D. (5%)		9.5	7.6	12.6	11.6	15.8
Row Sp (In.)		30	30	30	15	30
Rows/Plot		4	4	4	6	4
Reps		2	2	2	2	2

Preliminary Test IIA, 2014

Yield (bu/a)

Strain	Hooper NE	Phillips NE	Hoytville OH	Wooster OH	Chatham ONT
IA 2102 (II)	78.0	93.0	71.9	61.9	55.4
IA1022 (SCN)	70.4	90.5	57.1	43.3	58.8
IA3024	78.0	98.5	69.8	63.8	65.1
AR12-228071	73.8	93.8	61.8	69.7	65.7
AR13-232001	78.7	92.1	67.4	66.9	60.1
AR13-232013	67.9	87.9	65.3	51.8	69.9
AR13-232102	71.2	81.5	71.1	58.7	64.6
AW12-701015	69.9	83.1	62.1	52.8	55.2
AW12-701024	71.2	91.1	63.0	58.7	49.9
AW12-702029	73.9	79.6	70.2	57.7	51.2
AW12-801020	79.7	89.1	68.6	50.8	59.8
E12007	76.8	90.0	70.0	58.0	67.6
E12020	78.5	100.5	66.4	63.1	70.1
E12023	73.8	97.0	72.9	49.7	73.6
E12034	84.2	90.9	66.2	62.3	58.7
E12042	78.1	86.9	72.6	65.0	70.6
E12061	74.3	91.5	69.3	65.6	61.8
E12076	75.3	88.8	66.6	64.3	57.8
E12084	76.7	89.8	72.4	67.5	61.6
E12247	70.3	82.4	67.0	70.1	62.5
E12377	71.9	98.1	66.3	57.8	61.1
E12397	77.4	89.3	65.3	57.7	66.2
M08-608015	64.0	83.7	64.8	54.2	55.8
M08-608018	61.7	75.4	57.9	44.5	62.6
M08-608106	65.5	81.5	55.6	46.2	62.9
MLG03-4069017	71.3	84.4	62.7	55.5	63.1
MLG07-6251013	77.2	93.7	68.2	51.9	58.3
Location Mean	73.7	89.0	66.4	58.1	61.8
C.V. (%)	5.5	4.5	4.9	11.6	7.0
L.S.D. (5%)	10.0	10.3	6.6	13.9	7.3
Row Sp (In.)	30	30	5	5	17
Rows/Plot	4	4	8	8	5
Reps	2	2	2	2	3

Preliminary Test IIA, 2014

Yield Rank

Strain	Mean 10 Tests	Boone IA	Urbana IL	Lafayette IN	Ingham MI	Cotesville NE
IA 2102 (II)	2	5	13	1	1	6
IA1022 (SCN)	24	16	26	21	8	23
IA3024	7	21	3	20	20	8
AR12-228071	9	8	23	10	3	21
AR13-232001	4	3	8	5	4	17
AR13-232013	12	19	1	2	10	22
AR13-232102	6	9	4	6	16	1
AW12-701015	23	11	22	22	23	11
AW12-701024	18	12	9	7	24	5
AW12-702029	19	18	21	8	6	8
AW12-801020	16	20	20	25	10	2
E12007	15	14	11	27	13	13
E12020	1	15	2	11	12	4
E12023	10	7	6	23	19	14
E12034	8	13	7	18	18	3
E12042	3	2	14	4	7	15
E12061	14	10	10	15	25	7
E12076	22	17	19	16	5	25
E12084	5	6	5	3	22	16
E12247	11	4	12	17	14	8
E12377	17	24	15	9	17	20
E12397	13	1	16	24	9	18
M08-608015	27	27	27	19	26	24
M08-608018	25	23	25	12	11	27
M08-608106	26	26	24	26	21	26
MLG03-4069017	21	22	18	14	2	18
MLG07-6251013	20	25	17	13	15	12

Preliminary Test IIA, 2014

Yield Rank

Strain	Hooper NE	Phillips NE	Hoytville OH	Wooster OH	Chatham ONT
IA 2102 (II)	6	7	4	11	24
IA1022 (SCN)	21	12	25	25	19
IA3024	6	2	8	8	8
AR12-228071	15	5	23	2	7
AR13-232001	3	8	12	4	17
AR13-232013	24	18	18	20	4
AR13-232102	19	24	5	12	9
AW12-701015	23	22	22	18	25
AW12-701024	19	10	20	12	27
AW12-702029	14	26	6	15	26
AW12-801020	2	16	10	21	18
E12007	10	13	7	13	5
E12020	4	1	15	9	3
E12023	15	4	1	22	1
E12034	1	11	17	10	20
E12042	5	19	2	6	2
E12061	13	9	9	5	14
E12076	12	17	14	7	22
E12084	11	14	3	3	15
E12247	22	23	13	1	13
E12377	17	3	16	14	16
E12397	8	15	18	15	6
M08-608015	26	21	19	17	23
M08-608018	27	27	24	24	12
M08-608106	25	24	26	23	11
MLG03-4069017	18	20	21	16	10
MLG07-6251013	9	6	11	19	21

Preliminary Test IIA, 2014

Maturity (date)

Strain	Mean 9 Tests	Boone IA	Urbana IL	Lafayette IN	Ingham MI	Cotesville NE
IA 2102 (II)	9/26	10/5	9/19	9/25	10/8	.
IA1022 (SCN)	-5.3	-7.5	-8.0	-5.0	-11.0	.
IA3024	3.3	7.5	3.0	-2.5	1.0	.
AR12-228071	-0.2	0.5	1.0	-1.5	-4.0	.
AR13-232001	1.0	3.0	3.0	-1.0	-4.0	.
AR13-232013	1.3	-1.5	2.0	2.0	-1.0	.
AR13-232102	0.8	2.0	1.0	0.5	0.0	.
AW12-701015	-4.0	-4.5	-4.0	-4.0	-10.0	.
AW12-701024	-1.0	-0.5	1.0	0.0	-4.0	.
AW12-702029	0.8	2.0	2.0	0.5	1.0	.
AW12-801020	1.2	2.0	3.0	0.0	1.0	.
E12007	2.6	3.0	3.0	-3.5	1.0	.
E12020	4.1	3.0	4.0	1.5	2.0	.
E12023	2.6	5.5	4.0	-1.0	1.0	.
E12034	5.5	9.0	6.0	1.0	4.0	.
E12042	2.1	3.0	3.0	-12.0	3.0	.
E12061	-0.1	3.0	0.0	0.5	-6.0	.
E12076	5.4	8.0	5.0	1.5	3.0	.
E12084	2.9	3.0	5.0	1.5	2.0	.
E12247	4.5	5.5	5.0	2.0	3.0	.
E12377	2.1	3.0	4.0	0.0	1.0	.
E12397	-2.7	-5.0	-3.0	-6.5	1.0	.
M08-608015	5.9	2.0	7.0	1.0	4.0	.
M08-608018	-6.5	-10.0	-8.0	-6.5	-9.0	.
M08-608106	-3.4	-5.5	2.0	-6.5	-12.0	.
MLG03-4069017	-1.6	-9.0	0.0	-5.5	1.0	.
MLG07-6251013	-1.3	-0.5	-5.0	-4.0	-4.0	.
Date Planted	5/25	5/23	5/21	5/26	6/10	5/19
Days To Mature	123.4	135.0	121.0	122.0	120.0	.

Preliminary Test IIA, 2014

Maturity (date)

Strain	Hooper NE	Phillips NE	Hoytville OH	Wooster OH	Chatham ONT
IA 2102 (II)	9/21	9/22	9/24	9/21	10/5
IA1022 (SCN)	-4.0	1.0	-6.0	-3.0	-4.0
IA3024	5.0	4.0	4.0	3.0	5.0
AR12-228071	2.0	0.0	-1.5	2.0	0.0
AR13-232001	3.0	2.0	0.0	-2.0	5.0
AR13-232013	2.0	1.0	2.5	-0.5	5.0
AR13-232102	1.0	0.0	2.0	1.5	-1.0
AW12-701015	-4.0	-1.0	-2.0	-1.5	-5.0
AW12-701024	0.0	-1.0	-0.5	-1.0	-3.0
AW12-702029	1.0	2.0	-3.0	-1.0	3.0
AW12-801020	1.0	-1.0	3.0	4.0	-2.0
E12007	6.0	3.0	4.0	4.5	2.0
E12020	5.0	5.0	4.5	5.0	7.0
E12023	5.0	4.0	4.5	2.0	-2.0
E12034	7.0	6.0	6.0	2.5	8.0
E12042	3.0	7.0	4.0	1.0	7.0
E12061	2.0	1.0	2.5	-1.0	-3.0
E12076	4.0	5.0	9.0	3.5	10.0
E12084	2.0	1.0	5.0	1.5	5.0
E12247	5.0	3.0	5.0	4.0	8.0
E12377	1.0	1.0	2.5	-0.5	7.0
E12397	0.0	0.0	-3.0	-3.0	-5.0
M08-608015	6.0	3.0	10.0	6.0	14.0
M08-608018	-4.0	-2.0	-6.5	-6.5	-6.0
M08-608106	1.0	-1.0	-2.5	-1.5	-5.0
MLG03-4069017	1.0	2.0	-1.0	-1.0	-2.0
MLG07-6251013	1.0	1.0	0.5	-1.0	0.0
Date Planted	5/17	5/20	5/31	5/23	6/3
Days To Mature	127.0	125.0	116.0	121.0	124.0

Preliminary Test IIA, 2014

Lodging (score)

Strain	Mean 9 Tests	Boone IA	Urbana IL	Lafayette IN	Ingham MI	Hooper NE	Phillips NE	Hoytville OH	Wooster OH	Chatham ONT
IA 2102 (II)	2.0	3.0	2.3	1.8	3.0	1.0	2.0	1.0	1.0	2.5
IA1022 (SCN)	1.5	2.0	2.3	1.3	1.5	1.0	1.5	1.0	1.0	2.0
IA3024	1.3	1.5	1.5	1.5	1.0	1.0	1.0	1.0	1.0	2.0
AR12-228071	1.6	2.0	2.0	1.5	2.0	1.3	1.3	1.0	1.0	2.0
AR13-232001	1.8	2.0	2.3	1.8	2.5	1.0	1.5	1.0	1.0	3.5
AR13-232013	1.5	1.5	2.0	1.3	2.0	1.5	1.0	1.0	1.0	2.5
AR13-232102	1.3	1.5	1.8	1.0	1.5	1.3	1.0	1.0	1.0	2.0
AW12-701015	1.2	1.5	1.5	1.0	1.0	1.3	1.0	1.0	1.0	1.5
AW12-701024	1.3	1.0	1.8	1.0	1.0	1.5	1.0	1.0	1.0	2.0
AW12-702029	2.2	2.0	1.8	1.3	1.5	1.3	8.0	1.0	1.0	2.0
AW12-801020	1.5	2.0	1.8	1.3	1.0	1.5	1.8	1.0	1.0	2.5
E12007	1.4	1.0	2.3	1.0	1.5	1.3	1.5	1.0	1.0	2.0
E12020	1.5	1.0	2.0	1.3	2.5	1.3	1.5	1.0	1.0	2.0
E12023	1.3	1.5	2.0	1.5	1.5	1.0	1.0	1.0	1.0	1.5
E12034	1.4	1.0	1.5	1.5	1.5	1.5	1.3	1.0	1.0	2.0
E12042	2.1	3.3	2.3	1.8	3.0	1.5	2.0	1.0	1.0	3.0
E12061	1.1	1.0	1.5	1.0	1.5	1.3	1.0	1.0	1.0	1.0
E12076	1.7	2.0	2.0	1.3	2.0	1.5	1.0	1.0	1.0	3.5
E12084	1.6	2.0	2.3	1.5	2.5	1.0	1.0	1.0	1.0	2.5
E12247	2.0	3.5	2.5	1.5	2.5	1.3	2.0	1.0	1.0	3.0
E12377	2.3	2.0	2.0	1.0	1.5	1.3	8.0	1.0	1.0	3.0
E12397	1.8	3.0	2.0	1.8	2.5	1.5	1.0	1.0	1.0	2.0
M08-608015	1.6	1.5	1.5	1.5	2.5	1.3	1.3	1.0	1.0	2.5
M08-608018	1.4	1.5	1.5	1.3	2.5	1.0	1.3	1.0	1.0	2.0
M08-608106	1.4	1.0	2.0	1.5	1.0	1.3	1.0	1.0	1.0	2.5
MLG03-4069017	1.5	1.0	1.5	2.0	2.5	1.3	1.0	1.0	1.0	2.0
MLG07-6251013	1.5	1.5	2.0	1.5	1.5	1.0	1.3	1.0	1.0	3.0

Preliminary Test IIA, 2014

Plant Height (inches)

Strain	Mean 8 Tests	Boone IA	Urbana IL	Lafayette IN	Ingham MI	Phillips NE	Hoytville OH	Wooster OH	Chatham ONT
IA 2102 (II)	32.7	36.0	33.0	31.0	31.0	35.5	30.0	26.0	39.0
IA1022 (SCN)	28.6	31.5	31.0	26.0	24.0	33.5	24.0	21.0	37.8
IA3024	32.4	37.0	34.0	32.5	26.0	32.5	31.0	26.0	40.4
AR12-228071	36.8	40.0	35.0	37.0	35.0	43.0	32.0	26.0	46.3
AR13-232001	38.2	44.0	36.0	38.0	36.0	42.5	34.0	30.0	45.5
AR13-232013	34.3	35.5	35.0	35.5	33.0	37.5	28.0	25.0	45.3
AR13-232102	32.3	36.5	34.0	33.5	31.0	34.5	27.0	24.0	38.2
AW12-701015	29.6	31.0	32.0	30.0	26.0	31.5	24.0	23.0	39.0
AW12-701024	29.7	31.5	34.0	30.5	25.0	29.5	24.0	22.0	40.8
AW12-702029	32.6	34.5	33.0	32.0	28.0	39.3	30.0	22.0	42.3
AW12-801020	30.5	33.0	34.0	31.0	29.0	34.5	25.0	21.0	36.6
E12007	36.0	42.0	39.0	35.0	33.0	40.0	31.0	26.0	41.9
E12020	34.1	33.5	36.0	33.0	34.0	40.0	29.0	26.0	41.3
E12023	32.6	36.0	35.0	27.0	31.0	39.5	30.0	24.0	38.4
E12034	31.8	32.0	37.0	35.0	28.0	33.5	25.0	24.0	40.2
E12042	35.7	39.5	38.0	33.0	36.0	38.5	31.0	25.0	44.5
E12061	29.9	32.5	32.0	29.5	26.0	33.5	25.0	23.0	37.6
E12076	33.1	32.0	34.0	30.5	34.0	37.0	30.0	23.0	44.1
E12084	36.8	39.5	37.0	35.5	35.0	45.0	31.0	30.0	41.3
E12247	42.1	49.0	40.0	39.0	48.0	46.8	35.0	29.0	50.4
E12377	33.0	36.5	35.0	32.5	29.0	37.5	28.0	25.0	40.2
E12397	32.2	34.5	36.0	32.5	30.0	33.5	28.0	23.0	40.2
M08-608015	29.9	19.0	32.0	28.0	31.0	32.5	29.0	24.0	43.7
M08-608018	27.4	29.0	31.0	27.5	26.0	28.0	22.0	20.0	35.6
M08-608106	30.3	25.0	33.0	26.5	30.0	38.5	26.0	21.0	42.3
MLG03-4069017	33.7	30.5	36.0	33.0	36.0	35.0	30.0	26.0	43.1
MLG07-6251013	32.7	32.5	33.0	33.5	33.0	36.5	30.0	26.0	37.2

Preliminary Test IIA, 2014

Seed Quality (score)

Strain	Mean 7 Tests	Boone IA	Urbana IL	Lafayette IN	Phillips NE	Hoytville OH	Wooster OH	Chatham ONT
IA 2102 (II)	1.3	1.0	2.0	1.0	2.0	1.0	1.0	1.0
IA1022 (SCN)	1.6	1.0	3.0	2.0	2.0	1.0	1.0	1.0
IA3024	1.6	2.0	3.0	1.0	2.0	1.0	1.0	1.0
AR12-228071	1.7	2.0	4.0	1.0	2.0	1.0	1.0	1.0
AR13-232001	1.7	2.0	4.0	1.0	2.0	1.0	1.0	1.0
AR13-232013	1.1	1.0	2.0	1.0	1.0	1.0	1.0	1.0
AR13-232102	1.3	1.0	2.0	1.0	1.0	1.0	1.0	2.0
AW12-701015	1.6	2.0	2.0	2.0	2.0	1.0	1.0	1.5
AW12-701024	1.6	2.0	3.0	1.0	2.0	1.0	1.0	1.0
AW12-702029	1.6	2.0	3.0	1.0	2.0	1.0	1.0	1.0
AW12-801020	1.3	1.0	2.0	1.0	1.0	1.0	1.0	2.0
E12007	1.7	2.0	3.0	2.0	2.0	1.0	1.0	1.0
E12020	1.6	2.0	3.0	1.0	2.0	1.0	1.0	1.5
E12023	1.8	2.0	3.0	2.0	2.0	1.0	1.0	1.5
E12034	1.6	1.0	3.0	1.0	2.0	1.0	1.0	2.0
E12042	2.1	3.0	4.0	2.0	2.0	1.0	1.0	1.5
E12061	1.4	2.0	1.0	2.0	2.0	1.0	1.0	1.0
E12076	1.7	2.0	3.0	2.0	2.0	1.0	1.0	1.0
E12084	1.7	2.0	3.0	2.0	2.0	1.0	1.0	1.0
E12247	1.8	2.0	3.0	2.0	2.0	1.0	1.0	1.5
E12377	1.4	2.0	2.0	2.0	1.0	1.0	1.0	1.0
E12397	1.6	2.0	3.0	1.0	2.0	1.0	1.0	1.0
M08-608015	1.6	2.0	3.0	2.0	1.0	1.0	1.0	1.0
M08-608018	1.3	1.0	2.0	1.0	2.0	1.0	1.0	1.0
M08-608106	1.9	2.0	4.0	2.0	2.0	1.0	1.0	1.5
MLG03-4069017	1.6	2.0	3.0	1.0	2.0	1.0	1.0	1.0
MLG07-6251013	1.4	2.0	2.0	1.0	2.0	1.0	1.0	1.0

Preliminary Test IIA, 2014

Seed Size (g/100)

Strain	Mean 8 Tests	Boone IA	Urbana IL	Lafayette IN	Ingham MI	Phillips NE	Hoytville OH	Wooster OH	Chatham ONT
IA 2102 (II)	17.1	16.5	16.9	16.3	16.8	17.7	17.4	15.7	19.7
IA1022 (SCN)	16.7	15.6	15.3	16.1	16.2	18.8	16.9	15.9	18.5
IA3024	17.1	16.1	17.3	13.8	16.3	19.4	18.3	15.0	20.4
AR12-228071	15.4	14.4	14.4	13.4	16.1	17.0	14.8	16.5	16.6
AR13-232001	17.5	16.0	17.0	15.6	16.8	18.9	18.6	17.8	19.3
AR13-232013	15.9	14.2	15.6	15.0	15.7	16.3	17.6	14.5	18.5
AR13-232102	17.3	16.1	16.3	16.9	17.8	17.8	18.4	15.5	19.2
AW12-701015	14.2	14.2	13.3	12.7	12.5	15.7	15.0	14.3	16.1
AW12-701024	17.6	17.5	17.8	16.5	15.8	19.3	17.4	16.9	19.2
AW12-702029	17.2	16.3	17.3	16.1	17.1	17.9	17.8	16.4	18.5
AW12-801020	14.0	13.4	14.2	12.5	13.5	15.3	14.3	12.5	16.5
E12007	14.7	14.0	15.1	10.7	14.8	16.0	15.8	15.0	16.7
E12020	17.0	15.3	16.8	13.1	16.4	19.2	18.1	17.2	20.3
E12023	14.7	13.1	14.8	12.6	14.2	16.5	15.2	13.5	17.4
E12034	16.5	16.0	15.7	14.4	15.4	18.3	17.6	17.4	17.1
E12042	16.0	15.2	16.9	13.8	15.6	17.3	16.2	15.3	18.1
E12061	16.0	15.3	16.4	13.9	14.6	16.1	16.4	16.2	19.0
E12076	18.1	15.5	17.7	17.0	18.4	20.2	17.6	16.5	21.5
E12084	15.1	13.8	14.9	14.6	14.6	16.6	15.0	14.4	16.9
E12247	16.1	16.6	15.2	13.5	16.6	17.3	16.9	14.9	17.6
E12377	16.7	15.0	15.9	15.2	15.9	19.2	18.5	14.1	19.9
E12397	17.2	16.7	16.2	14.0	16.9	19.5	17.4	16.7	20.2
M08-608015	16.7	14.4	16.9	15.2	16.1	18.7	18.2	16.6	17.7
M08-608018	16.9	16.5	15.9	15.8	17.4	18.4	17.6	15.4	18.4
M08-608106	17.8	15.5	15.1	16.3	17.3	20.0	18.9	18.0	21.3
MLG03-4069017	19.0	17.5	18.7	16.2	19.3	22.1	19.0	19.0	20.2
MLG07-6251013	17.3	16.0	16.1	15.2	16.9	18.7	18.2	16.2	20.9

Preliminary Test IIA, 2014

Protein (%)

Strain	Mean 7 Tests	Urbana IL	Lafayette IN	Ingham MI	Phillips NE	Hoytville OH	Wooster OH	Chatham ONT*
IA 2102 (II)	35.4	34.2	34.6	36.8	35.2	35.1	36.3	35.8
IA1022 (SCN)	34.3	33.3	34.8	34.3	34.8	32.7	35.3	34.9
IA3024	34.5	32.9	34.3	35.4	34.4	33.6	35.3	35.9
AR12-228071	34.6	33.6	34.8	35.2	34.6	33.1	35.3	35.8
AR13-232001	34.5	33.5	34.7	35.3	34.3	33.5	35.4	35.2
AR13-232013	36.9	35.5	37.3	38.2	36.3	35.3	37.7	37.8
AR13-232102	35.8	35.1	35.6	36.1	34.8	34.7	36.5	37.5
AW12-701015	35.8	33.8	36.3	36.3	35.5	35.4	36.7	36.9
AW12-701024	36.4	35.3	36.0	36.1	36.3	35.7	37.6	37.8
AW12-702029	36.0	34.2	35.1	37.0	35.5	35.6	36.6	37.7
AW12-801020	34.9	33.2	34.9	35.9	34.5	33.6	36.0	36.5
E12007	36.1	35.0	37.1	36.9	35.6	33.7	36.9	37.6
E12020	34.9	34.0	34.0	35.4	34.9	33.6	35.9	36.4
E12023	35.3	34.5	35.1	36.2	35.2	33.1	36.6	36.5
E12034	34.6	34.0	34.3	33.7	34.9	34.1	36.3	34.9
E12042	34.4	34.2	34.4	34.6	34.5	33.1	35.3	34.9
E12061	35.0	34.3	34.8	35.9	34.0	33.3	36.7	36.0
E12076	35.2	34.4	35.5	34.3	34.9	34.2	36.7	36.5
E12084	35.2	34.6	35.2	36.2	34.8	33.7	36.4	35.8
E12247	34.7	34.4	33.7	35.3	35.5	33.1	36.2	35.1
E12377	35.0	35.3	35.1	35.4	34.1	32.8	36.6	35.6
E12397	35.8	34.7	35.8	36.2	35.4	34.3	37.1	37.1
M08-608015	35.3	34.4	35.5	35.0	35.5	34.4	36.9	35.1
M08-608018	34.9	33.5	34.2	36.2	34.1	34.4	35.3	36.3
M08-608106	35.6	34.5	35.7	36.7	35.5	35.3	36.6	35.2
MLG03-4069017	36.4	35.7	36.1	36.3	36.1	35.8	37.6	36.9
MLG07-6251013	35.9	34.6	36.3	36.8	36.5	35.2	36.2	35.8

*Protein and Oil values converted to 13% moisture basis

Preliminary Test IIA, 2014

Oil (%)

Strain	Mean 7 Tests	Urbana IL	Lafayette IN	Ingham MI	Phillips NE	Hoytville OH	Wooster OH	Chatham ONT*
IA 2102 (II)	18.6	19.7	19.6	17.1	18.2	19.1	18.9	17.7
IA1022 (SCN)	20.1	20.7	20.6	19.2	19.8	21.2	20.1	19.5
IA3024	18.9	20.6	19.4	17.5	19.0	19.8	18.6	17.2
AR12-228071	18.5	19.2	18.7	17.2	18.3	19.3	19.2	17.4
AR13-232001	18.9	19.9	19.3	17.1	19.0	19.7	19.5	17.7
AR13-232013	18.7	19.8	19.1	17.5	18.5	19.9	18.9	17.3
AR13-232102	18.4	19.4	19.3	16.7	18.3	19.2	18.7	16.9
AW12-701015	18.4	19.5	18.6	17.2	18.4	19.2	18.8	17.1
AW12-701024	19.2	20.4	20.0	17.8	19.3	20.2	19.5	17.2
AW12-702029	17.7	19.1	18.6	16.1	17.7	18.3	18.3	15.8
AW12-801020	18.4	19.7	18.8	16.8	18.5	19.2	18.1	17.4
E12007	18.5	19.8	18.2	17.7	18.7	19.0	19.1	17.3
E12020	19.0	20.2	19.7	17.3	18.9	20.0	19.5	17.7
E12023	18.4	19.2	18.9	17.2	18.3	19.5	18.0	17.5
E12034	18.7	19.5	19.4	17.1	18.8	19.1	19.2	17.7
E12042	19.1	19.8	19.7	17.5	19.1	19.8	19.7	18.4
E12061	19.0	19.9	19.8	17.5	18.9	19.8	19.0	18.1
E12076	18.7	19.7	19.2	17.6	18.8	19.2	19.1	17.1
E12084	18.2	19.1	18.9	16.6	18.4	18.8	18.6	17.2
E12247	18.7	19.8	19.5	17.3	18.4	19.6	18.9	17.6
E12377	19.3	19.9	20.2	17.7	19.5	20.5	18.9	18.2
E12397	19.0	19.8	19.2	17.3	19.3	20.2	19.4	17.7
M08-608015	18.8	20.0	19.6	17.1	19.0	19.3	18.5	17.9
M08-608018	19.2	20.0	19.9	18.1	19.4	19.7	19.0	18.4
M08-608106	18.8	19.4	18.9	17.8	18.8	19.1	18.8	18.6
MLG03-4069017	19.0	20.0	19.7	17.5	19.2	19.4	19.3	18.1
MLG07-6251013	19.1	20.0	19.7	18.2	18.8	19.5	19.4	18.4

*Protein and Oil values converted to 13% moisture basis

Preliminary Test IIB, 2014

Ent.	Strain	Parentage	Seed Source	Previous Testing	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.	HM12-P077	HS6-3976 x [OHS 303 x (PI538400 x HS2-4225)]	McHale	F4	
5.	HM12-W005	Dennison x [(PI532465 x HS4-5450) x HS5-7262]	McHale	F4	
6.	HR10-3060	LG03-11572 x IA3023	Mian	F6	
7.	LD11-304	LD04-8782 x Dairyland 75221	Diers	F4	
8.	LD11-643	IA3023 x Thompson SeedsT0499	Diers	F4	
9.	LD11-6883	Syngenta 03JR313108 x U03-300134	Diers	F4	
10.	ORC 5811N	LD01-7323scn x LG00-6925	Eskandari	F6	SCN
11.	U11-214015	Sheyenne x LD02-4485	Graef	F5	Rps1c, SCN
12.	U11-230017	U02-242055 x U98-311442	Graef	F5	Rps1k, SCN
13.	U11-309049	HS5-3417 x LD02-4485	Graef	F5	Rps1k?, SCN
14.	U11-310076	U06-300952 x U06-102133	Graef	F4	
15.	U11-311071	U06-300952 x U06-102133	Graef	F4	IDC
16.	U11-346046	LG04-6000 x OAC05-17	Graef	F5	
17.	U11-374036	U03-100612 x LD02-7222P	Graef	F5	Rps1k, SCN
18.	U11-376008	U02-242055 x LD04-13265	Graef	F5	Rps1k, SCN
19.	U11-389031	LD02-4485 x U03-300134	Graef	F5	Rps1k, SCN
20.	U11-396029	U03-300134 x LD04-11056	Graef	F5	Rps1k, SCN
21.	U11-396034	U03-300134 x LD04-11056	Graef	F5	Rps1k, SCN
22.	U11-431093	U03-100612 x LD04-13265	Graef	F5	Rps1k, SCN
23.	U11-444079	U03-300134 x LD00-3309	Graef	F5	Rps1k, SCN
24.	U11-449075	U03-300134 x LD02-7222P	Graef	F5	Rps1k, SCN
25.	U11-449096	U03-300134 x LD02-7222P	Graef	F5	Rps1k, SCN

Descriptive Code

Strain	Descriptive Code
IA 2102 (II)	WGTDYYI
IA1022 (SCN)	PGTSYYI
IA3024	PGTIYIbI
HM12-P077	PGBDYIbI
HM12-W005	PGBDYIbI
HR10-3060	PTBDYBlI
LD11-304	P+WGBDYDibI
LD11-643	PGBDYLbfI
LD11-6883	PGB+TDYBfI
ORC 5811N	PTBDYYI
U11-214015	PGBDYBfI
U11-230017	W+PGBDYYI
U11-309049	WGTDYBfI
U11-310076	PTBDYBlI
U11-311071	PGBDYIbI
U11-346046	WGBDYBlI
U11-374036	PGBDYBlI
U11-376008	PGBDYBlI
U11-389031	PGBDYLbfI
U11-396029	PGBDYIbI
U11-396034	PG+TBDYIbI
U11-431093	PGBDYBlI
U11-444079	P+WGBDYDbfI
U11-449075	PTBDYBlI
U11-449096	PTBDYBlI

Preliminary Test IIB, 2014

Regional Summary

	Yield	Rank	Maturity	Lodging	Plant Height	Seed Quality	Seed Size	Composition	
								Protein	Oil
No. of Tests	10	10	8	9	7	7	8	7	7
Strain	bu/a	No.	Date	Score	In	Score	g/100	(%)	(%)
IA 2102 (II)	70.8	5	9/27	2.0	32.3	1.7	16.9	35.7	18.4
IA1022 (SCN)	60.4	25	-6.4	1.6	30.1	1.7	16.5	34.5	20.0
IA3024	69.2	11	2.9	1.4	33.0	1.6	17.6	34.6	19.0
HM12-P077	67.6	17	2.9	1.9	35.9	1.6	18.6	36.6	18.5
HM12-W005	63.4	23	-0.3	1.4	34.2	1.4	15.9	36.6	18.0
HR10-3060	63.8	22	2.9	1.9	34.5	1.7	15.5	34.2	18.5
LD11-304	70.9	4	1.8	1.5	31.6	1.6	15.7	35.3	18.1
LD11-643	71.1	3	-0.3	1.3	30.5	1.6	18.1	33.7	19.7
LD11-6883	64.5	20	0.4	1.3	31.8	1.8	17.9	35.6	18.9
ORC 5811N	61.8	24	-5.5	1.5	29.1	1.8	19.3	37.2	18.4
U11-214015	67.4	18	-2.4	1.5	35.0	1.7	15.9	34.0	19.4
U11-230017	69.7	10	-1.1	1.4	30.8	1.6	17.9	34.0	19.7
U11-309049	66.4	19	3.8	1.4	33.1	1.6	15.3	34.2	19.7
U11-310076	64.3	21	0.1	1.4	30.6	1.4	13.8	34.1	19.0
U11-311071	67.6	16	0.3	1.5	32.8	1.6	13.8	34.5	18.8
U11-346046	70.1	9	3.2	1.7	33.4	1.6	17.6	35.8	18.4
U11-374036	73.9	1	3.5	1.4	33.0	1.4	15.9	34.1	18.9
U11-376008	70.4	7	2.1	1.3	32.1	1.7	18.2	35.3	19.2
U11-389031	68.7	12	0.9	1.4	33.9	1.6	15.2	34.0	19.3
U11-396029	70.4	8	4.0	1.4	33.6	1.4	16.2	34.5	18.6
U11-396034	70.7	6	3.6	1.4	34.9	1.6	16.1	34.8	18.4
U11-431093	68.2	15	2.3	1.1	29.5	1.3	17.0	34.9	18.5
U11-444079	72.4	2	1.2	1.4	31.0	1.1	16.0	34.1	18.8
U11-449075	68.4	13	3.3	1.6	35.0	1.6	14.5	34.1	19.2
U11-449096	68.2	14	3.3	1.4	35.3	1.6	13.9	34.0	19.3

124.3 Days After Planting

Preliminary Test IIB, 2014

Yield (bu/a)

Strain	Mean 10 Tests	Boone IA	Urbana IL	Lafayette IN	Ingham MI	Cotesville NE
IA 2102 (II)	70.8	71.5	63.5	69.3	57.8	77.1
IA1022 (SCN)	60.4	70.5	55.7	60.0	49.2	57.1
IA3024	69.2	74.0	63.5	56.5	51.1	78.6
HM12-P077	67.6	66.5	64.2	58.0	49.5	79.4
HM12-W005	63.4	65.6	66.5	59.0	49.9	69.5
HR10-3060	63.8	60.0	66.6	55.4	52.1	70.6
LD11-304	70.9	69.5	69.4	59.8	48.9	79.8
LD11-643	71.1	69.3	67.7	68.1	47.4	72.0
LD11-6883	64.5	65.8	62.4	60.4	48.5	71.4
ORC 5811N	61.8	64.5	54.5	66.3	56.6	39.4
U11-214015	67.4	76.3	69.3	55.6	60.3	63.8
U11-230017	69.7	63.4	65.0	62.5	48.9	80.9
U11-309049	66.4	58.3	69.9	54.4	52.7	73.4
U11-310076	64.3	73.6	58.8	48.8	46.3	76.6
U11-311071	67.6	63.3	59.8	54.9	48.3	77.9
U11-346046	70.1	64.0	72.4	57.7	50.7	68.2
U11-374036	73.9	71.5	75.0	69.4	58.1	92.0
U11-376008	70.4	70.4	71.6	66.2	50.8	70.8
U11-389031	68.7	67.9	71.4	54.7	53.3	66.9
U11-396029	70.4	67.3	68.8	57.1	51.3	75.9
U11-396034	70.7	67.8	74.1	52.1	54.6	80.5
U11-431093	68.2	65.7	65.4	56.9	52.7	66.7
U11-444079	72.4	73.3	66.4	58.1	57.3	79.8
U11-449075	68.4	65.3	66.7	52.3	43.1	81.3
U11-449096	68.2	66.2	74.5	50.0	43.0	75.4
Location Mean		67.7	66.5	58.5	51.3	73.0
C.V. (%)		5.7	5.8	13.2	9.7	7.5
L.S.D. (5%)		7.9	8.0	14.9	12.4	13.5
Row Sp (In.)		30	30	30	15	30
Rows/Plot		4	4	4	6	4
Reps		2	2	2	2	2

Preliminary Test IIB, 2014

Yield (bu/a)

Strain	Hooper NE	Phillips NE	Hoytville OH	Wooster OH	Chatham ONT
IA 2102 (II)	79.9	94.8	62.2	60.4	71.2
IA1022 (SCN)	55.4	91.8	53.0	45.0	66.2
IA3024	74.4	101.8	64.3	61.9	65.5
HM12-P077	69.2	86.9	67.7	65.7	68.5
HM12-W005	65.8	88.1	62.2	43.8	63.3
HR10-3060	78.3	79.2	63.2	48.1	64.1
LD11-304	77.6	99.0	65.6	69.6	69.9
LD11-643	79.9	98.4	71.2	68.5	68.3
LD11-6883	79.1	88.8	62.4	44.1	62.1
ORC 5811N	68.5	83.9	68.1	53.4	62.6
U11-214015	67.0	99.7	61.6	51.2	68.9
U11-230017	85.1	97.9	64.7	59.0	69.7
U11-309049	72.8	90.1	71.5	56.2	64.2
U11-310076	74.0	99.9	61.5	41.5	62.4
U11-311071	80.4	103.4	70.1	48.9	68.6
U11-346046	79.4	93.1	67.0	68.7	79.8
U11-374036	82.4	101.8	60.7	64.9	62.8
U11-376008	79.6	98.6	64.4	60.9	71.2
U11-389031	72.7	97.4	69.1	60.2	73.7
U11-396029	76.4	99.9	68.9	67.0	71.0
U11-396034	72.1	96.2	76.6	65.3	67.6
U11-431093	79.9	105.6	61.8	58.5	68.7
U11-444079	83.2	103.7	71.9	59.2	71.6
U11-449075	72.9	101.8	68.9	61.7	69.7
U11-449096	71.5	104.3	66.9	63.7	66.9
Location Mean	75.1	96.2	65.8	57.9	67.9
C.V. (%)	11.4	4.0	7.4	11.3	8.6
L.S.D. (5%)	21.5	9.5	10.1	13.5	10.0
Row Sp (In.)	30	30	5	5	17
Rows/Plot	4	4	8	8	5
Reps	2	2	2	2	3

Preliminary Test IIB, 2014

Yield Rank

Strain	Yield Rank 10 Tests	Boone IA	Urbana IL	Lafayette IN	Ingham MI	Cotesville NE
IA 2102 (II)	5	5	20	2	3	10
IA1022 (SCN)	25	7	24	8	16	24
IA3024	11	2	19	16	11	8
HM12-P077	17	14	18	12	15	7
HM12-W005	23	18	14	10	14	19
HR10-3060	22	24	13	18	9	18
LD11-304	4	9	8	9	17	5
LD11-643	3	10	11	3	20	15
LD11-6883	20	16	21	7	18	16
ORC 5811N	24	20	25	4	5	25
U11-214015	18	1	9	17	1	23
U11-230017	10	22	17	6	17	3
U11-309049	19	25	7	21	8	14
U11-310076	21	3	23	25	21	11
U11-311071	16	23	22	19	19	9
U11-346046	9	21	4	13	13	20
U11-374036	1	6	1	1	2	1
U11-376008	7	8	5	5	12	17
U11-389031	12	11	6	20	7	21
U11-396029	8	13	10	14	10	12
U11-396034	6	12	3	23	6	4
U11-431093	15	17	16	15	8	22
U11-444079	2	4	15	11	4	5
U11-449075	13	19	12	22	22	2
U11-449096	14	15	2	24	23	13

Preliminary Test IIB, 2014

Yield Rank

Strain	Hooper NE	Phillips NE	Hoytville OH	Wooster OH	Chatham ONT
IA 2102 (II)	5	17	18	12	4
IA1022 (SCN)	25	19	23	22	17
IA3024	14	5	15	9	18
HM12-P077	21	23	9	5	13
HM12-W005	24	22	18	24	21
HR10-3060	11	25	16	21	20
LD11-304	12	11	12	1	7
LD11-643	5	13	4	3	14
LD11-6883	10	21	17	23	25
ORC 5811N	22	24	8	18	23
U11-214015	23	10	20	19	10
U11-230017	1	14	13	15	9
U11-309049	17	20	3	17	19
U11-310076	15	8	21	25	24
U11-311071	4	4	5	20	12
U11-346046	9	18	10	2	1
U11-374036	3	5	22	7	22
U11-376008	8	12	14	11	5
U11-389031	18	15	6	13	2
U11-396029	13	8	7	4	6
U11-396034	19	16	1	6	15
U11-431093	5	1	19	16	11
U11-444079	2	3	2	14	3
U11-449075	16	5	7	10	8
U11-449096	20	2	11	8	16

Preliminary Test IIB, 2014

Maturity (date)

Strain	Mean 9 Tests	Boone IA	Urbana IL	Lafayette IN	Ingham MI	Cotesville NE
IA 2102 (II)	9/27	10/7	9/19	9/23	10/9	.
IA1022 (SCN)	-6.4	-5.5	-9.0	-5.0	-12.0	.
IA3024	2.9	3.5	5.0	-2.0	2.0	.
HM12-P077	2.9	1.0	4.0	-0.5	5.0	.
HM12-W005	-0.3	-5.5	1.0	0.5	-2.0	.
HR10-3060	2.9	3.5	6.0	0.5	2.0	.
LD11-304	1.8	1.0	2.0	1.5	2.0	.
LD11-643	-0.3	1.0	0.0	0.5	-3.0	.
LD11-6883	0.4	-1.5	1.0	-0.5	2.0	.
ORC 5811N	-5.5	-8.0	-6.0	-2.0	-9.0	.
U11-214015	-2.4	0.0	2.0	-4.0	-9.0	.
U11-230017	-1.1	1.0	3.0	-2.0	-5.0	.
U11-309049	3.8	3.5	5.0	1.5	3.0	.
U11-310076	0.1	1.0	3.0	-2.0	-3.0	.
U11-311071	0.3	1.0	0.0	-1.5	1.0	.
U11-346046	3.2	3.5	5.0	0.5	3.0	.
U11-374036	3.5	1.0	5.0	3.0	4.0	.
U11-376008	2.1	1.0	4.0	2.0	3.0	.
U11-389031	0.9	1.0	5.0	-0.5	-3.0	.
U11-396029	4.0	6.0	7.0	2.0	4.0	.
U11-396034	3.6	1.0	6.0	0.5	4.0	.
U11-431093	2.3	1.0	5.0	0.0	3.0	.
U11-444079	1.2	1.0	4.0	-1.5	2.0	.
U11-449075	3.3	1.0	6.0	0.5	3.0	.
U11-449096	3.3	1.0	6.0	-1.0	3.0	.
Date Planted	5/25	5/23	5/21	5/26	6/10	5/19
Days To Mature	124.3	137.0	121.0	120.0	121.0	.

Preliminary Test IIB, 2014

Maturity (date)

Strain	Hooper NE	Phillips NE	Hoytville OH	Wooster OH	Chatham ONT
IA 2102 (II)	9/24	9/22	9/23	9/22	10/9
IA1022 (SCN)	-6.0	0.0	-5.0	-5.5	-9.0
IA3024	3.5	3.0	6.0	4.5	1.0
HM12-P077	2.5	1.0	5.5	3.5	2.0
HM12-W005	-5.0	-1.0	3.5	4.5	-4.0
HR10-3060	1.5	3.0	6.0	2.0	2.0
LD11-304	3.5	0.0	5.5	2.5	-3.0
LD11-643	0.0	0.0	3.5	3.5	-7.0
LD11-6883	1.0	0.0	4.0	4.5	-9.0
ORC 5811N	-5.0	0.0	-3.5	-7.5	-11.0
U11-214015	-2.5	3.0	0.5	-5.5	-4.0
U11-230017	0.5	0.0	2.5	0.5	-8.0
U11-309049	2.0	3.0	8.0	5.0	3.0
U11-310076	2.0	0.0	5.0	3.0	-7.0
U11-311071	1.5	1.0	3.5	3.0	-6.0
U11-346046	2.0	3.0	5.0	4.0	3.0
U11-374036	4.0	4.0	5.5	2.5	0.0
U11-376008	3.0	2.0	5.5	2.5	-5.0
U11-389031	1.0	1.0	5.0	2.0	-3.0
U11-396029	4.0	1.0	8.0	4.0	2.0
U11-396034	4.0	3.0	5.0	4.5	2.0
U11-431093	2.0	1.0	7.0	4.0	-4.0
U11-444079	0.0	2.0	5.0	3.0	-5.0
U11-449075	3.5	5.0	6.5	3.5	-2.0
U11-449096	5.0	5.0	5.0	4.5	-1.0
Date Planted	5/17	5/20	5/31	5/23	6/3
Days To Mature	130.0	125.0	115.0	122.0	128.0

Preliminary Test IIB, 2014

Lodging (score)

Strain	Mean 9 Tests	Boone IA	Urbana IL	Lafayette IN	Ingham MI	Hooper NE	Phillips NE	Hoytville OH	Wooster OH	Chatham ONT
IA 2102 (II)	2.0	3.0	2.5	1.8	3.5	1.0	1.5	1.0	1.0	3.0
IA1022 (SCN)	1.6	2.0	2.3	1.0	2.5	1.5	1.5	1.0	1.0	2.0
IA3024	1.4	1.5	1.5	1.3	2.0	1.3	1.0	1.0	1.0	2.5
HM12-P077	1.9	2.5	1.8	1.5	4.0	1.0	1.3	1.0	1.0	3.0
HM12-W005	1.4	1.5	2.0	1.0	2.0	1.0	1.0	1.0	1.0	2.5
HR10-3060	1.9	2.0	2.5	1.5	2.5	1.3	2.0	1.0	1.0	3.0
LD11-304	1.5	1.5	2.3	1.0	2.5	1.0	1.0	1.0	1.0	2.5
LD11-643	1.3	1.0	1.5	1.0	1.5	1.3	1.0	1.0	1.0	2.0
LD11-6883	1.3	1.0	1.5	1.0	2.5	1.0	1.0	1.0	1.0	2.0
ORC 5811N	1.5	2.0	1.5	1.5	2.0	1.3	1.0	1.0	1.0	2.0
U11-214015	1.5	2.0	1.5	1.3	2.0	1.5	1.0	1.0	1.0	2.0
U11-230017	1.4	2.0	1.8	1.3	1.5	1.0	1.3	1.0	1.0	2.0
U11-309049	1.4	1.5	1.5	1.0	2.5	1.0	1.0	1.0	1.0	2.5
U11-310076	1.4	2.0	1.5	1.5	2.0	1.0	1.0	1.0	1.0	2.0
U11-311071	1.5	1.5	1.8	1.3	2.5	1.0	1.0	1.0	1.0	2.0
U11-346046	1.7	2.5	2.0	1.3	2.5	1.3	1.0	1.0	1.0	2.5
U11-374036	1.4	1.0	2.0	1.0	3.0	1.0	1.0	1.0	1.0	2.0
U11-376008	1.3	1.0	1.5	1.0	1.5	1.5	1.0	1.0	1.0	2.0
U11-389031	1.4	1.0	1.8	1.5	2.0	1.5	1.0	1.0	1.0	2.0
U11-396029	1.4	1.0	1.8	1.5	2.5	1.0	1.0	1.0	1.0	2.0
U11-396034	1.4	1.0	1.8	1.3	2.5	1.3	1.0	1.0	1.0	2.0
U11-431093	1.1	1.0	1.5	1.0	1.0	1.3	1.0	1.0	1.0	1.0
U11-444079	1.4	1.0	2.0	1.0	2.5	1.0	1.0	1.0	1.0	2.0
U11-449075	1.6	1.5	1.7	1.5	3.0	1.3	1.0	1.0	1.0	2.0
U11-449096	1.4	1.5	1.5	1.5	2.0	1.3	1.0	1.0	1.0	2.0

Preliminary Test IIB, 2014

Plant Height (inches)

Strain	Mean 8 Tests	Boone IA	Urbana IL	Lafayette IN	Ingham MI	Phillips NE	Hoytville OH	Wooster OH	Chatham ONT
IA 2102 (II)	32.3	36.5	34.0	34.0	30.0	37.5	28.0	19.0	39.8
IA1022 (SCN)	30.1	31.5	31.0	29.5	27.0	36.0	24.0	23.0	39.2
IA3024	33.0	35.5	34.0	33.0	33.0	36.8	27.0	25.0	40.0
HM12-P077	35.9	36.5	36.0	35.0	34.0	42.0	35.0	26.0	42.9
HM12-W005	34.2	35.5	35.0	36.5	34.0	37.8	29.0	23.0	42.7
HR10-3060	34.5	35.0	38.0	34.0	32.0	41.8	30.0	22.0	43.1
LD11-304	31.6	32.5	33.0	32.0	32.0	35.0	25.0	23.0	40.4
LD11-643	30.5	33.5	32.0	30.5	28.0	33.5	28.0	22.0	36.4
LD11-6883	31.8	36.0	33.0	32.5	32.0	33.5	25.0	22.0	40.4
ORC 5811N	29.1	29.0	31.0	30.5	28.0	28.5	28.0	20.0	37.4
U11-214015	35.0	38.5	35.0	35.5	34.0	41.0	30.0	25.0	41.3
U11-230017	30.8	35.0	33.0	30.0	28.0	33.0	25.0	25.0	37.8
U11-309049	33.1	34.5	34.0	33.0	31.0	38.0	28.0	26.0	40.6
U11-310076	30.6	33.5	31.0	30.0	29.0	34.5	25.0	24.0	38.0
U11-311071	32.8	37.5	33.0	31.5	29.0	37.3	28.0	27.0	39.0
U11-346046	33.4	37.0	35.0	33.0	31.0	36.8	28.0	28.0	38.8
U11-374036	33.0	38.0	35.0	32.5	33.0	39.8	26.0	24.0	35.4
U11-376008	32.1	32.5	36.0	32.5	28.0	35.8	28.0	23.0	40.9
U11-389031	33.9	38.0	35.0	33.5	31.0	39.0	29.0	23.0	42.5
U11-396029	33.6	37.0	37.0	34.0	33.0	37.0	27.0	24.0	40.2
U11-396034	34.9	36.0	36.0	35.0	36.0	39.5	33.0	24.0	39.6
U11-431093	29.5	29.5	30.0	32.5	27.0	29.5	24.0	27.0	36.6
U11-444079	31.0	35.0	31.0	31.5	28.0	34.5	26.0	22.0	39.8
U11-449075	35.0	35.5	35.0	36.0	37.0	38.8	30.0	25.0	42.5
U11-449096	35.3	38.5	38.0	36.0	32.0	41.0	29.0	26.0	41.7

Preliminary Test IIB, 2014

Seed Quality (score)

Strain	Mean 7 Tests	Boone IA	Urbana IL	Lafayette IN	Phillips NE	Hoytville OH	Wooster OH	Chatham ONT
IA 2102 (II)	1.7	2.0	3.0	2.0	2.0	1.0	1.0	1.0
IA1022 (SCN)	1.7	2.0	3.0	2.0	2.0	1.0	1.0	1.0
IA3024	1.6	2.0	2.0	2.0	2.0	1.0	1.0	1.0
HM12-P077	1.6	2.0	2.0	2.0	2.0	1.0	1.0	1.0
HM12-W005	1.4	1.0	2.0	2.0	2.0	1.0	1.0	1.0
HR10-3060	1.7	2.0	3.0	2.0	2.0	1.0	1.0	1.0
LD11-304	1.6	2.0	2.0	2.0	2.0	1.0	1.0	1.5
LD11-643	1.6	2.0	2.0	3.0	1.0	1.0	1.0	1.0
LD11-6883	1.8	1.0	4.0	2.0	2.0	1.0	1.0	1.5
ORC 5811N	1.8	1.0	3.0	3.0	2.0	1.0	1.0	1.5
U11-214015	1.7	1.0	3.0	3.0	2.0	1.0	1.0	1.0
U11-230017	1.6	1.0	3.0	2.0	2.0	1.0	1.0	1.5
U11-309049	1.6	2.0	2.0	2.0	2.0	1.0	1.0	1.5
U11-310076	1.4	2.0	1.0	2.0	2.0	1.0	1.0	1.0
U11-311071	1.6	2.0	2.0	2.0	2.0	1.0	1.0	1.0
U11-346046	1.6	2.0	2.0	2.0	2.0	1.0	1.0	1.0
U11-374036	1.4	1.0	2.0	2.0	2.0	1.0	1.0	1.0
U11-376008	1.7	2.0	3.0	2.0	2.0	1.0	1.0	1.0
U11-389031	1.6	1.0	3.0	2.0	2.0	1.0	1.0	1.0
U11-396029	1.4	2.0	1.0	2.0	2.0	1.0	1.0	1.0
U11-396034	1.6	2.0	2.0	2.0	2.0	1.0	1.0	1.0
U11-431093	1.3	1.0	2.0	1.0	2.0	1.0	1.0	1.0
U11-444079	1.1	1.0	1.0	1.0	2.0	1.0	1.0	1.0
U11-449075	1.6	2.0	2.0	2.0	2.0	1.0	1.0	1.0
U11-449096	1.6	2.0	3.0	1.0	2.0	1.0	1.0	1.0

Preliminary Test IIB, 2014

Seed Size (g/100)

Strain	Mean 8 Tests	Boone IA	Urbana IL	Lafayette IN	Ingham MI	Phillips NE	Hoytville OH	Wooster OH	Chatham ONT
IA 2102 (II)	16.9	16.1	16.3	14.8	16.4	17.7	16.8	17.7	19.6
IA1022 (SCN)	16.5	16.1	15.6	16.2	15.4	18.4	16.4	16.7	17.1
IA3024	17.6	17.3	17.4	15.1	16.1	19.7	17.8	17.6	19.5
HM12-P077	18.6	17.5	17.2	16.6	20.3	19.2	18.6	19.4	19.6
HM12-W005	15.9	14.3	14.8	14.8	16.6	17.2	16.6	15.0	18.2
HR10-3060	15.5	14.4	15.0	13.4	15.4	14.4	16.0	14.7	20.7
LD11-304	15.7	14.9	15.6	14.5	15.4	16.5	15.8	15.9	17.1
LD11-643	18.1	16.4	17.2	17.4	17.5	19.6	18.4	19.1	19.1
LD11-6883	17.9	17.7	16.9	16.7	18.8	18.4	18.6	16.4	19.5
ORC 5811N	19.3	20.1	18.6	19.7	19.3	20.3	18.8	18.2	19.4
U11-214015	15.9	15.3	17.6	14.6	15.0	18.3	16.1	14.7	15.9
U11-230017	17.9	18.1	18.3	16.4	16.0	20.4	18.1	16.0	20.1
U11-309049	15.3	14.5	15.0	13.6	15.2	17.2	15.7	14.0	17.4
U11-310076	13.8	13.1	12.9	11.7	13.3	16.6	13.7	13.0	15.9
U11-311071	13.8	13.3	12.6	11.1	12.9	16.2	15.0	13.9	15.3
U11-346046	17.6	17.4	17.4	14.8	17.2	19.2	18.0	16.7	19.8
U11-374036	15.9	16.1	16.5	13.9	16.6	16.6	16.1	16.0	15.5
U11-376008	18.2	17.6	18.7	15.7	17.5	20.7	18.8	16.9	19.6
U11-389031	15.2	14.1	15.7	12.5	14.4	16.9	16.0	14.9	17.4
U11-396029	16.2	15.1	17.2	12.5	16.5	17.6	16.5	15.6	18.8
U11-396034	16.1	15.1	17.1	12.4	16.9	17.6	17.0	15.6	17.3
U11-431093	17.0	16.3	17.0	14.0	16.8	19.3	16.8	17.6	18.1
U11-444079	16.0	15.2	15.2	13.4	15.9	18.1	16.8	15.8	17.5
U11-449075	14.5	13.7	14.8	11.7	13.5	16.0	15.1	14.5	16.4
U11-449096	13.9	13.1	13.1	11.3	13.7	15.7	14.8	13.6	16.0

Preliminary Test IIB, 2014

Protein (%)

Strain	Mean 7 Tests	Urbana IL	Lafayette IN	Ingham MI	Phillips NE	Hoytville OH	Wooster OH	Chatham ONT*
IA 2102 (II)	35.7	34.6	34.9	36.9	35.4	34.7	36.6	36.8
IA1022 (SCN)	34.5	33.2	34.9	34.4	34.5	32.9	36.4	34.9
IA3024	34.6	34.0	34.1	34.8	34.7	32.8	35.1	36.5
HM12-P077	36.6	35.3	37.2	37.2	35.8	35.2	38.2	37.4
HM12-W005	36.6	35.2	36.8	37.9	35.5	35.6	38.0	37.2
HR10-3060	34.2	33.7	34.0	34.9	33.4	32.1	36.6	35.1
LD11-304	35.3	34.3	35.2	35.8	34.6	33.5	37.1	36.5
LD11-643	33.7	33.0	34.1	33.6	33.2	31.4	35.2	35.1
LD11-6883	35.6	34.2	36.0	36.1	34.9	34.5	36.6	37.1
ORC 5811N	37.2	35.5	37.4	37.9	36.9	36.2	37.5	38.9
U11-214015	34.0	32.3	34.5	34.3	34.8	32.1	35.4	35.0
U11-230017	34.0	33.0	34.0	34.6	33.9	33.7	34.3	34.7
U11-309049	34.2	33.0	34.4	35.5	33.5	32.5	34.8	35.9
U11-310076	34.1	32.9	34.4	33.8	33.9	32.4	35.7	35.8
U11-311071	34.5	32.5	34.7	35.0	35.0	32.7	35.2	36.2
U11-346046	35.8	34.9	35.5	35.9	35.6	34.5	37.8	36.1
U11-374036	34.1	33.7	33.8	34.3	34.0	32.1	35.7	35.1
U11-376008	35.3	34.8	35.2	35.4	35.4	33.1	36.4	37.0
U11-389031	34.0	32.9	33.4	35.0	33.9	32.4	34.9	35.7
U11-396029	34.5	33.9	34.7	34.2	34.0	32.7	35.5	37.0
U11-396034	34.8	33.4	35.0	34.9	34.7	32.9	36.0	37.1
U11-431093	34.9	33.8	34.2	35.3	35.0	33.1	35.9	36.8
U11-444079	34.1	32.6	34.3	34.6	34.0	33.0	35.3	35.0
U11-449075	34.1	32.4	33.7	34.5	34.3	32.3	35.4	35.9
U11-449096	34.0	32.5	34.1	34.7	33.6	32.2	34.9	35.7

*Protein and Oil values converted to 13% moisture basis

Preliminary Test IIB, 2014

Oil (%)

Strain	Mean 7 Tests	Urbana IL	Lafayette IN	Ingham MI	Phillips NE	Hoytville OH	Wooster OH	Chatham ONT*
IA 2102 (II)	18.4	19.3	19.2	17.0	18.6	19.3	18.5	17.1
IA1022 (SCN)	20.0	20.8	20.8	19.0	19.7	21.0	19.6	19.4
IA3024	19.0	20.1	20.1	17.6	18.8	20.2	19.0	17.0
HM12-P077	18.5	19.5	19.4	17.3	18.4	19.2	18.4	17.1
HM12-W005	18.0	19.0	18.8	16.2	18.6	18.8	17.6	17.1
HR10-3060	18.5	19.8	20.0	18.0	19.0	20.0	18.7	13.8
LD11-304	18.1	19.2	18.8	16.7	18.4	19.3	17.8	16.7
LD11-643	19.7	20.5	20.2	18.2	19.9	20.8	19.6	18.4
LD11-6883	18.9	19.9	19.6	17.8	18.8	19.7	18.6	17.6
ORC 5811N	18.4	19.2	18.9	17.3	18.6	19.5	18.4	16.9
U11-214015	19.4	20.4	20.2	18.1	19.4	20.5	18.9	18.4
U11-230017	19.7	20.6	20.8	18.0	19.8	20.3	19.6	18.8
U11-309049	19.7	20.9	20.2	18.1	19.9	20.6	19.9	18.4
U11-310076	19.0	20.4	19.6	17.5	19.1	20.1	18.3	17.6
U11-311071	18.8	20.4	19.2	17.2	18.8	20.3	18.6	17.4
U11-346046	18.4	19.5	19.6	16.9	18.3	19.4	18.1	16.6
U11-374036	18.9	19.6	19.6	17.9	18.9	20.0	18.7	17.8
U11-376008	19.2	19.9	20.0	18.1	19.1	20.3	19.3	17.9
U11-389031	19.3	20.4	20.4	17.6	19.2	20.0	19.4	17.9
U11-396029	18.6	19.6	19.2	17.4	18.7	19.8	18.6	17.2
U11-396034	18.4	19.7	19.2	16.8	18.5	19.4	18.7	16.4
U11-431093	18.5	19.5	19.6	17.2	18.5	19.6	18.6	16.8
U11-444079	18.8	19.6	19.3	17.7	18.8	19.6	18.7	18.0
U11-449075	19.2	20.6	19.7	17.9	19.1	20.3	19.1	17.8
U11-449096	19.3	20.7	19.6	17.8	19.2	20.5	19.3	18.1

*Protein and Oil values converted to 13% moisture basis

Uniform Test III, 2014

Ent.	Strain	Parentage	Seed Source	Previous Testing	Gen. Comp.	Unique Traits
1.	IA3023 (III)	Dairyland DSR-365 x Pioneer P9381	Fehr	13.0	F5	
2.	IA3024	A97-553017 x Pioneer YB33A99	Fehr	7.0		1% linolenic
3.	IA3048 (SCN)	Dairyland 99540 x IA2068	Fehr	6.0	F4	SCN
4.	IA4005	IA3023 x IA3025	Fehr	4.0		1% linolenic
5.	AR11-214015	AR3 x PI 398697	Cianzio	1.0	F5	IDC PR
6.	HM11-W192	OHS 305 x OHS 303	McHale	PTIIIA	F4	
7.	LD10-2477	LD04-13296 x LD05-3230	Diers	PTIIIB	F5	SCN
8.	LD10-9168	LD06-7648 x LD02-4485	Diers	PTIIIB	F5	SCN
9.	LD10-9200	LD06-7648 x LD02-4485	Diers	PTIIIB	F5	SCN
10.	LD10-9409	LD05-8517 x Syngneta 03JR101916	Diers	13 SCN PTIV	F4	SCN
11.	LD10-9763	Dairyland 75226 x LD01-7323	Diers	13 SCN PTIII	F4	SCN
12.	LD10-10219	LD05-3230 x LD00-3309	Diers	13 SCN PTIII	F4	SCN
13.	LD10-10226	LD05-3230 x LD00-3309	Diers	PTIIIB	F5	SCN
14.	LG11-6210	LG03-3020 x LG03-3780	Nelson	PTIIIA	F6	Genetic diversity
15.	LG11-6214	LG03-3020 x LG03-3780	Nelson	PTIIIA	F6	Genetic diversity
16.	U11-616086	U02-242055 x LD02-4485	Graef	PTIIIB	F6	SCN Rps1k
17.	U11-616111	U02-242055 x LD02-4485	Graef	PTIIIB	F6	SCN Rps1k
18.	U11-622148	U02-242055 x LD04-13265	Graef	PTIIIB	F6	SCN Rps1k
19.	U11-649117	U02-242055 x LD04-13265	Graef	PTIIIB	F6	SCN Rps1k

Descriptive and Disease Data

Strain	Descriptive Code	Shattering Score Manhattan KS	Green Stem Score St. Charleston OH
IA3023 (III)	WLtTDYBlI	1	3.5
IA3024	PGTDYIbI	1	1.9
IA3048 (SCN)	WGBIYYI	1	3.5
IA4005	WTBDYBlI	2	3.2
AR11-214015	PGTDYIbI	1	1.7
HM11-W192	PLtBDYBlI	1	3.0
LD10-2477	PGBDYG+IbII	1	1.7
LD10-9168	PTBDYLblI	1	4.4
LD10-9200	PTBDYBlI	1	2.4
LD10-9409	PLtDYBlI	1	3.8
LD10-9763	PGDYYI	2	2.7
LD10-10219	PLtDYBlI	1	2.2
LD10-10226	PGBDYG+IbI	1	2.4
LG11-6210	WTTDYBlI	1	5.1
LG11-6214	PTTDYBlI	1	5.1
U11-616086	WTBDYYI	1	2.8
U11-616111	WGBDYLbfI	1	4.7
U11-622148	PLtBDYGI	1	2.3
U11-649117	PLtTDYGI	3	2.6

Uniform Test III, 2014

Regional Summary

	Yield	Rank	Maturity	Lodging	Plant Height	Seed Quality	Seed Size	Composition	
								Protein	Oil
No. of Tests	15	15	15	14	14	14	16	9	9
Strain	bu/a	No.	Date	Score	In	Score	g/100	(%)	(%)
IA3023 (III)	58.0	15	9/24	1.5	33.6	1.9	16.7	34.1	19.6
IA3024	53.0	19	-2.7	1.5	30.5	2.0	16.3	33.6	20.1
IA3048 (SCN)	60.6	12	0.3	1.8	34.4	1.9	16.0	35.0	19.1
IA4005	60.9	10	5.6	1.4	33.1	1.9	14.8	34.9	19.2
AR11-214015	57.6	16	-3.3	1.5	34.7	2.3	17.2	33.3	20.4
HM11-W192	61.7	6	2.3	2.2	30.5	2.0	19.6	36.9	18.8
LD10-2477	56.7	18	-1.7	1.7	32.1	2.2	17.1	34.4	20.0
LD10-9168	61.3	8	0.4	1.8	33.2	2.0	15.3	34.8	19.0
LD10-9200	61.3	9	-0.6	1.7	33.3	1.8	15.0	35.0	18.9
LD10-9409	61.4	7	4.3	2.0	30.1	2.1	15.3	34.5	19.2
LD10-9763	58.2	14	-0.9	1.7	32.7	2.2	15.2	35.1	18.9
LD10-10219	60.4	13	-0.3	1.4	32.8	2.0	16.0	35.0	18.7
LD10-10226	62.6	2	-1.0	1.2	33.0	2.0	16.6	34.8	19.4
LG11-6210	62.8	1	2.6	2.0	33.7	2.0	15.1	35.3	18.5
LG11-6214	62.0	5	2.7	2.3	32.2	2.0	15.2	35.2	18.0
U11-616086	62.5	3	0.0	1.6	33.0	1.9	15.3	33.2	19.7
U11-616111	60.6	11	0.4	2.1	32.6	2.2	16.3	33.4	20.2
U11-622148	62.1	4	-1.0	1.4	33.9	2.1	16.2	34.4	19.6
U11-649117	57.0	17	2.3	1.7	36.1	2.1	16.2	34.6	19.6

126.5 Days After Planting

Uniform Test III, 2014

2013-2014 2-Year Mean

	Yield	Rank	Maturity	Lodging	Plant Height	Seed Quality	Seed Size	Composition	
								Protein	Oil
No. of Tests	30	30	28	28	28	28	32	15	15
Strain	bu/a	No.	Date	Score	In	Score	g/100	(%)	(%)
IA3023 (III)	57.5	2.0	9/22	1.5	32.0	1.8	16.1	34.0	19.8
IA3024	55.1	5.0	-2.1	1.4	31.0	2.1	16.0	34.0	20.0
IA3048 (SCN)	55.8	4.0	0.2	1.6	32.7	1.8	15.1	35.2	19.3
IA4005	60.8	1.0	6.1	1.4	31.5	1.9	14.6	35.1	19.3
AR11-214015	56.6	3.0	-4.0	1.4	32.9	2.2	16.5	33.5	20.5

124.9 Days After Planting

Uniform Test III, 2014

Yield (bu/a)

Strain	Mean 15 Tests	Ames IA	Crawfordsville IA	Arthur IL	Urbana IL	Butlerville IN	Lafayette IN	Wanatah IN	Manhattan KS
IA3023 (III)	58.0	56.0	57.8	70.3	66.3	61.7	58.5	55.8	35.4
IA3024	53.0	54.6	44.1	61.1	68.1	41.7	59.9	48.1	40.2
IA3048 (SCN)	60.6	57.9	60.5	77.4	69.9	70.0	73.8	60.7	44.3
IA4005	60.9	59.8	53.5	80.4	66.3	53.7	66.8	55.3	46.7
AR11-214015	57.6	62.1	53.9	77.8	69.0	62.2	66.9	67.3	35.8
HM11-W192	61.7	57.3	58.3	82.1	70.1	68.7	62.2	52.1	40.3
LD10-2477	56.7	57.4	51.6	79.5	68.2	61.9	68.6	53.5	31.7
LD10-9168	61.3	53.2	66.9	80.6	71.9	73.5	61.4	51.8	55.3
LD10-9200	61.3	61.5	55.6	81.4	79.9	65.8	65.4	66.5	46.0
LD10-9409	61.4	55.6	60.9	78.1	71.7	62.9	56.1	46.3	48.6
LD10-9763	58.2	57.7	64.5	59.1	73.5	61.0	67.3	68.7	39.6
LD10-10219	60.4	63.0	47.7	76.3	76.4	65.9	75.6	68.6	42.6
LD10-10226	62.6	60.5	60.1	81.2	71.8	64.4	70.0	75.5	41.4
LG11-6210	62.8	51.7	57.7	76.5	81.0	71.9	71.0	58.1	53.8
LG11-6214	62.0	62.3	62.2	77.3	71.8	64.8	64.8	57.8	52.0
U11-616086	62.5	62.1	67.3	75.8	80.4	64.3	69.8	63.2	43.4
U11-616111	60.6	61.5	58.9	77.3	83.2	66.7	59.0	64.5	40.3
U11-622148	62.1	61.3	63.4	79.7	78.4	62.8	71.2	62.5	40.6
U11-649117	57.0	59.5	67.1	69.8	72.6	55.4	55.7	60.6	37.3
Location Mean		58.7	58.5	75.9	73.2	63.1	65.5	59.8	42.9
C.V. (%)		7.0	9.6	7.7	4.3	13.1	10.9	13.7	7.2
L.S.D. (5%)		8.6	11.9	12.3	6.7	8.8	8.4	7.3	5.1
Row Sp (In.)		27.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
Rows/Plot		4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Reps		2.0	2.0	2.0	2.0	3.0	3.0	3.0	3.0

*Data not included in mean

Uniform Test III, 2014

Yield (bu/a)

Strain	Ottawa KS	Novelty MO	Portageville MO (Clay)*	Portageville MO (Loam)	Lincoln NE	Wymore NE	Hoytville OH	St. Charleston OH
IA3023 (III)	32.8	59.9	35.3	58.8	85.9	50.9	61.0	58.6
IA3024	32.4	53.4	41.2	46.4	82.7	50.7	58.9	52.9
IA3048 (SCN)	36.2	59.5	34.7	51.1	75.9	49.0	60.4	61.9
IA4005	34.1	60.4	52.6	67.7	87.8	57.0	65.5	59.3
AR11-214015	30.0	54.0	27.9	54.7	80.7	42.2	55.7	52.1
HM11-W192	35.2	74.2	51.2	68.0	76.0	47.0	71.1	63.3
LD10-2477	33.6	49.6	34.2	57.3	80.9	38.7	64.6	52.8
LD10-9168	34.4	58.3	41.6	68.0	77.6	49.8	61.9	55.3
LD10-9200	35.2	56.3	27.9	55.9	80.7	55.4	60.3	53.9
LD10-9409	36.4	54.7	48.8	66.4	86.7	53.9	70.4	72.6
LD10-9763	30.7	51.0	35.5	50.9	77.2	54.7	60.7	55.9
LD10-10219	33.6	49.0	28.2	53.5	79.9	52.7	61.5	59.4
LD10-10226	34.2	61.2	41.6	65.3	82.1	50.6	60.9	60.1
LG11-6210	33.4	68.1	55.7	65.3	76.0	51.9	62.1	64.2
LG11-6214	36.8	61.4	55.5	68.4	73.9	54.1	59.8	62.7
U11-616086	35.9	67.0	45.4	60.0	78.0	48.2	59.4	63.1
U11-616111	35.8	55.5	41.1	46.0	87.8	51.3	60.8	60.7
U11-622148	38.8	63.1	48.7	58.3	78.4	51.8	59.2	62.2
U11-649117	36.2	43.5	47.0	62.3	75.3	45.7	56.9	57.3
Location Mean	34.5	57.9	41.8	59.2	80.2	50.3	61.6	59.4
C.V. (%)	5.2	11.0	16.3	14.1	5.0	10.0	6.1	6.8
L.S.D. (5%)	3.0	10.5	13.6	16.6	9.9	12.3	6.2	6.7
Row Sp (In.)	30.0	30.0	30.0	30.0	30.0	30.0	5.0	15.0
Rows/Plot	4.0	4.0	4.0	4.0	4.0	4.0	8.0	6.0
Reps	3.0	3.0	3.0	3.0	2.0	3.0	3.0	3.0

*Data not included in mean

Uniform Test III, 2014

Yield Rank

Strain	Yield Rank 15 Test	Ames IA	Crawfordsville IA	Arthur IL	Urbana IL	Butlerville IN	Lafayette IN	Wanatah IN	Manhattan KS
IA3023 (III)	15	14	12	16	19	15	17	13	18
IA3024	19	16	19	18	17	19	15	18	14
IA3048 (SCN)	12	10	8	10	14	3	2	9	7
IA4005	10	8	16	5	18	18	10	14	5
AR11-214015	16	3	15	9	15	13	9	4	17
HM11-W192	6	13	11	1	13	4	13	16	12
LD10-2477	18	12	17	7	16	14	7	15	19
LD10-9168	8	17	3	4	9	1	14	17	1
LD10-9200	9	5	14	2	4	7	11	5	6
LD10-9409	7	15	7	8	12	11	18	19	4
LD10-9763	14	11	4	19	7	16	8	2	15
LD10-10219	13	1	18	14	6	6	1	3	9
LD10-10226	2	7	9	3	10	9	5	1	10
LG11-6210	1	18	13	13	2	2	4	11	2
LG11-6214	5	2	6	12	11	8	12	12	3
U11-616086	3	3	1	15	3	10	6	7	8
U11-616111	11	5	10	11	1	5	16	6	12
U11-622148	4	6	5	6	5	12	3	8	11
U11-649117	17	9	2	17	8	17	19	10	16

Uniform Test III, 2014

Yield Rank

Strain	Ottawa KS	Novelty MO	Portageville MO (Clay)*	Portageville MO (Loam)	Lincoln NE	Wymore NE	Hoytville OH	St. Charleston OH
IA3023 (III)	16	8	14	10	4	10	8	12
IA3024	17	15	11	18	5	11	17	17
IA3048 (SCN)	4	9	15	16	17	14	12	7
IA4005	12	7	3	4	1	1	3	11
AR11-214015	19	14	18	14	8	18	19	19
HM11-W192	8	1	4	2	15	16	1	3
LD10-2477	13	17	16	12	7	19	4	18
LD10-9168	10	10	9	2	13	13	6	15
LD10-9200	9	11	18	13	8	2	13	16
LD10-9409	3	13	5	5	3	5	2	1
LD10-9763	18	16	13	17	14	3	11	14
LD10-10219	14	18	17	15	10	6	7	10
LD10-10226	11	6	9	6	6	12	9	9
LG11-6210	15	2	1	6	15	7	5	2
LG11-6214	2	5	2	1	19	4	14	5
U11-616086	6	3	8	9	12	15	15	4
U11-616111	7	12	12	19	1	9	10	8
U11-622148	1	4	6	11	11	8	16	6
U11-649117	5	19	7	8	18	17	18	13

Uniform Test III, 2014

Maturity (date)

Strain	Mean 15 Test	Ames IA	Crawfordsville IA	Arthur IL	Urbana IL	Butlerville IN	Lafayette IN	Wanatah IN	Manhattan KS
IA3023 (III)	9/24	10/5	9/22	9/23	9/25	9/22	9/28	10/9	9/29
IA3024	-2.7	0.5	-3.5	-4.0	-3.0	-3.7	-2.3	-6.3	-0.7
IA3048 (SCN)	0.3	3.0	2.0	0.0	-1.0	1.7	-0.3	1.7	-1.9
IA4005	5.6	-2.5	4.5	3.0	5.0	3.3	9.3	2.7	0.3
AR11-214015	-3.3	-1.0	-2.0	-7.0	-5.0	-2.7	-1.3	-6.3	-1.2
HM11-W192	2.3	-1.0	6.0	1.0	3.0	2.7	1.7	2.0	-1.0
LD10-2477	-1.7	-5.0	-0.5	-5.0	-3.0	1.0	-1.0	-3.3	0.4
LD10-9168	0.4	-5.5	4.5	0.0	2.0	2.3	0.0	-0.7	-0.1
LD10-9200	-0.6	7.0	-2.5	-5.0	0.0	1.7	-0.7	-2.0	-0.1
LD10-9409	4.3	2.0	4.0	4.0	5.0	4.7	1.0	2.7	-0.1
LD10-9763	-0.9	-4.0	6.5	-4.0	0.0	2.7	1.0	3.3	-2.5
LD10-10219	-0.3	5.0	-2.5	-1.0	0.0	2.0	1.7	3.3	-0.5
LD10-10226	-1.0	6.0	-0.5	-4.0	-2.0	0.7	0.0	-3.0	-1.1
LG11-6210	2.6	5.5	3.5	2.0	3.0	2.7	2.0	2.0	0.0
LG11-6214	2.7	-5.5	6.5	2.0	3.0	4.7	2.3	3.3	-0.7
U11-616086	0.0	7.5	3.0	-1.0	1.0	1.3	0.0	-1.0	-0.7
U11-616111	0.4	-4.0	3.5	-1.0	5.0	1.7	-0.3	0.3	-1.3
U11-622148	-1.0	-5.0	0.5	-4.0	-1.0	1.3	-0.7	-3.7	-1.3
U11-649117	2.3	7.0	4.5	1.0	3.0	2.0	-0.3	0.7	-0.3
Date Planted	5/21	5/20	5/21	5/8	5/21	5/28	5/26	5/30	5/14
Days To Mature	126.5	138.0	124.0	138.0	127.0	117.0	125.0	132.0	138.0

Uniform Test III, 2014

Maturity (date)

Strain	Ottawa KS	Novelty MO	Portageville MO (Clay)	Portageville MO (Loam)	Lincoln NE	Wymore NE	Hoytville OH	St. Charleston OH
IA3023 (III)	9/5	9/25	9/11	9/6	9/29	.	10/7	9/29
IA3024	2.6	-3.7	-2.0	-2.0	-3.0	.	-6.7	-3.0
IA3048 (SCN)	5.6	0.7	-2.0	0.0	-2.0	.	-3.7	-0.7
IA4005	17.6	6.3	8.0	10.0	7.0	.	4.0	4.7
AR11-214015	0.0	-7.7	-4.0	1.0	-4.0	.	-4.7	-1.7
HM11-W192	11.0	2.0	0.0	2.0	4.0	.	-0.7	2.3
LD10-2477	6.6	-3.0	-2.0	0.0	-5.0	.	-3.3	-2.7
LD10-9168	9.0	0.3	-1.0	3.0	-6.0	.	-2.3	2.7
LD10-9200	5.3	0.3	-2.0	-2.0	-6.0	.	-2.0	-1.7
LD10-9409	16.0	0.3	5.0	5.0	8.0	.	3.0	6.0
LD10-9763	-1.0	0.0	-6.0	-4.0	-4.0	.	-1.0	0.7
LD10-10219	-0.4	-2.3	-5.0	-1.0	-2.0	.	-2.0	-3.3
LD10-10226	2.6	0.0	-4.0	-1.0	-4.0	.	-3.7	-2.0
LG11-6210	14.3	1.0	5.0	4.0	-8.0	.	0.0	5.7
LG11-6214	12.0	2.3	6.0	5.0	-4.0	.	0.3	4.3
U11-616086	1.6	0.3	-4.0	-4.0	-2.0	.	-2.7	0.3
U11-616111	5.3	0.7	0.0	-2.0	-1.0	.	-1.0	0.0
U11-622148	5.3	0.0	0.0	3.0	-4.0	.	-4.3	-2.3
U11-649117	8.6	1.0	1.0	3.0	2.0	.	-1.0	1.7
Date Planted	5/21	5/19	5/6	5/19	5/29	5/28	5/31	5/20
Days To Mature	107.0	129.0	128.0	110.0	123.0	.	129.0	132.0

Uniform Test III, 2014

Lodging (score)

Strain	Mean 14 Tests	Ames IA	Arthur IL	Urbana IL	Butlerville IN	Lafayette IN	Wanatah IN	Manhattan KS
IA3023 (III)	1.5	2.5	2.0	1.5	1.2	1.3	1.0	1.7
IA3024	1.5	3.0	1.5	1.5	1.0	1.2	1.2	1.7
IA3048 (SCN)	1.8	2.8	3.0	1.5	1.8	1.2	1.3	1.7
IA4005	1.4	1.8	2.0	1.5	1.3	1.0	1.0	1.3
AR11-214015	1.5	2.0	2.0	1.5	2.0	1.2	1.3	1.0
HM11-W192	2.2	2.3	2.8	2.3	2.3	1.5	1.7	1.7
LD10-2477	1.7	1.8	1.8	1.5	1.3	1.0	1.3	2.0
LD10-9168	1.8	1.8	3.3	2.3	1.8	1.7	1.3	2.0
LD10-9200	1.7	2.8	1.5	1.5	2.3	1.3	1.5	2.0
LD10-9409	2.0	2.0	3.5	2.3	1.5	1.5	2.3	1.3
LD10-9763	1.7	1.8	2.3	2.3	2.3	1.2	1.2	1.3
LD10-10219	1.4	2.8	1.0	1.3	1.0	1.0	1.0	1.3
LD10-10226	1.2	3.0	1.5	1.3	1.0	1.0	1.2	1.0
LG11-6210	2.0	2.3	3.0	2.0	1.5	1.3	1.5	2.0
LG11-6214	2.3	1.8	3.5	2.5	2.7	1.7	1.8	2.0
U11-616086	1.6	2.0	2.3	2.0	1.0	1.5	1.5	2.0
U11-616111	2.1	2.3	3.3	2.3	2.0	1.5	2.3	1.3
U11-622148	1.4	1.8	1.5	1.3	1.0	1.0	1.0	1.3
U11-649117	1.7	3.0	2.8	2.0	1.0	1.5	1.7	1.7

Uniform Test III, 2014

Lodging (score)

Strain	Ottawa KS	Novelty MO	Portageville MO (Clay)	Portageville MO (Loam)	Lincoln NE	Hoytville OH	St. Charleston OH
IA3023 (III)	1.0	2.2	1.0	2.0	1.5	1.0	1.3
IA3024	1.0	1.7	1.0	2.0	1.5	1.0	1.0
IA3048 (SCN)	1.0	2.0	2.0	2.0	2.5	1.0	1.0
IA4005	1.0	1.7	2.0	2.0	1.0	1.0	1.0
AR11-214015	1.0	2.2	1.0	2.0	1.5	1.0	1.0
HM11-W192	1.0	3.7	2.0	3.0	3.0	1.0	2.0
LD10-2477	1.0	2.2	2.0	3.0	2.5	1.0	1.0
LD10-9168	1.0	2.2	1.0	2.0	2.0	1.0	1.7
LD10-9200	1.0	1.8	1.0	2.0	2.0	1.0	1.0
LD10-9409	1.0	2.5	2.0	2.0	2.5	1.0	1.3
LD10-9763	1.0	2.5	2.0	2.0	1.5	1.0	1.3
LD10-10219	1.0	2.0	1.0	2.0	1.5	1.0	1.0
LD10-10226	1.0	1.5	1.0	0.0	1.0	1.0	1.0
LG11-6210	1.0	3.0	2.0	3.0	3.0	1.0	2.3
LG11-6214	1.0	3.0	2.0	3.0	3.5	1.0	2.0
U11-616086	1.0	2.2	1.0	2.0	1.5	1.0	1.0
U11-616111	1.0	3.3	2.0	3.0	2.5	1.0	1.0
U11-622148	1.0	1.5	2.0	2.0	1.5	1.0	1.0
U11-649117	1.0	2.5	1.0	2.0	1.0	1.0	1.3

Uniform Test III, 2014

Plant Height (inches)

Strain	Mean 14 Tests	Ames IA	Arthur IL	Urbana IL	Butlerville IN	Lafayette IN	Wanatah IN	Manhattan KS
IA3023 (III)	33.6	34.0	34.0	36.0	27.7	33.0	31.3	30.0
IA3024	30.5	37.0	33.0	37.0	27.0	35.0	33.7	32.7
IA3048 (SCN)	34.4	31.5	37.0	36.0	27.3	35.0	32.3	31.7
IA4005	33.1	35.5	35.0	33.0	27.0	32.7	31.7	31.0
AR11-214015	34.7	36.0	37.0	33.0	29.7	33.0	31.7	28.0
HM11-W192	30.5	37.5	42.0	38.0	30.3	35.3	39.0	34.3
LD10-2477	32.1	36.0	38.0	36.0	29.0	34.0	33.0	31.7
LD10-9168	33.2	35.5	39.0	38.0	33.0	38.7	36.7	33.7
LD10-9200	33.3	39.0	38.0	36.0	28.3	34.0	33.0	32.3
LD10-9409	30.1	37.0	39.0	37.0	29.0	34.0	33.7	33.7
LD10-9763	32.7	33.0	34.0	30.0	28.7	34.0	32.7	28.3
LD10-10219	32.8	34.0	32.0	31.0	25.5	31.3	30.3	28.7
LD10-10226	33.0	40.5	38.0	33.0	29.3	35.0	137.3	31.0
LG11-6210	33.7	35.5	42.0	37.0	29.7	36.7	37.0	33.7
LG11-6214	32.2	37.5	42.0	42.0	31.7	38.7	36.0	34.3
U11-616086	33.0	32.5	38.0	41.0	29.0	34.3	34.3	31.7
U11-616111	32.6	33.5	37.0	38.0	30.7	34.0	36.0	31.0
U11-622148	33.9	34.5	37.0	39.0	29.7	34.3	34.0	34.0
U11-649117	36.1	34.5	36.0	41.0	30.0	36.7	38.0	33.7

Uniform Test III, 2014

Plant Height (inches)

Strain	Ottawa KS	Novelty MO	Portageville MO (Clay)	Portageville MO (Loam)	Lincoln NE	Hoytville OH	St. Charleston OH
IA3023 (III)	26.7	29.3	18.0	32.0	40.5	24.0	28.0
IA3024	27.3	28.3	20.0	29.0	38.5	24.7	27.0
IA3048 (SCN)	29.3	28.3	21.0	28.0	40.5	25.3	29.3
IA4005	26.3	28.4	22.0	30.0	34.5	25.0	27.0
AR11-214015	25.3	28.3	18.0	27.0	38.0	24.0	28.7
HM11-W192	33.7	34.5	22.0	37.0	42.5	28.7	33.3
LD10-2477	29.7	29.3	18.0	32.0	38.5	25.3	29.0
LD10-9168	27.3	31.9	22.0	35.0	43.5	26.7	30.7
LD10-9200	26.7	29.1	16.0	33.0	40.5	24.7	28.3
LD10-9409	27.0	28.1	22.0	34.0	41.5	24.7	29.0
LD10-9763	23.0	27.6	15.0	28.0	40.0	23.3	27.0
LD10-10219	23.0	23.5	14.0	27.0	32.5	21.3	24.3
LD10-10226	26.0	29.5	17.0	32.0	38.0	23.3	26.3
LG11-6210	29.0	33.7	22.0	38.0	40.5	25.3	32.0
LG11-6214	29.0	32.4	24.0	40.0	43.0	25.3	33.3
U11-616086	30.0	29.9	21.0	32.0	39.5	23.3	31.3
U11-616111	28.7	29.0	23.0	34.0	38.0	22.0	28.7
U11-622148	27.7	31.6	23.0	33.0	38.5	24.7	29.0
U11-649117	30.0	29.2	21.0	37.0	40.0	24.0	30.3

Uniform Test III, 2014

Seed Quality (score)

Strain	Mean 14 Tests	Crawfordsville IA	Arthur IL	Urbana IL	Butlerville IN	Lafayette IN	Wanatah IN	Manhattan KS
IA3023 (III)	1.9	2.0	1.0	2.0	1.0	1.0	1.0	3.0
IA3024	2.0	2.0	3.0	3.0	1.0	1.0	1.0	3.0
IA3048 (SCN)	1.9	2.0	3.0	2.0	1.0	1.0	1.0	3.0
IA4005	1.9	2.0	1.0	2.0	1.0	1.0	2.0	3.0
AR11-214015	2.3	2.0	3.0	2.0	1.0	1.0	2.0	3.0
HM11-W192	2.0	2.0	2.0	2.0	1.0	2.0	1.0	3.0
LD10-2477	2.2	2.0	2.0	3.0	1.0	1.0	2.0	3.0
LD10-9168	2.0	2.0	2.0	1.0	1.0	2.0	2.0	3.0
LD10-9200	1.8	2.0	3.0	1.0	1.0	1.0	1.0	3.0
LD10-9409	2.1	2.0	2.0	1.0	1.0	2.0	2.0	4.0
LD10-9763	2.2	2.0	2.0	2.0	1.0	1.0	2.0	3.0
LD10-10219	2.0	2.0	2.0	2.0	1.0	1.0	2.0	4.0
LD10-10226	2.0	2.0	2.0	2.0	1.0	1.0	1.0	3.0
LG11-6210	2.0	2.0	3.0	2.0	1.0	1.0	2.0	3.0
LG11-6214	2.0	2.0	2.0	1.0	1.0	1.0	1.0	3.0
U11-616086	1.9	2.0	3.0	2.0	1.0	1.0	1.0	4.0
U11-616111	2.2	2.0	3.0	2.0	1.0	1.0	2.0	3.0
U11-622148	2.1	2.0	2.0	2.0	1.0	1.0	2.0	3.0
U11-649117	2.1	2.0	2.0	3.0	1.0	1.0	2.0	3.0

Uniform Test III, 2014

Seed Quality (score)

Strain	Ottawa KS	Novelty MO	Portageville MO (Clay)	Portageville MO (Loam)	Lincoln NE	Hoytville OH	St. Charleston OH
IA3023 (III)	3.0	1.5	3.7	4.0	2.0	1.0	1.0
IA3024	2.0	2.0	3.3	2.3	2.0	1.0	1.0
IA3048 (SCN)	2.0	2.0	3.0	2.7	2.0	1.0	1.0
IA4005	2.0	1.5	4.0	3.7	2.0	1.0	1.0
AR11-214015	4.0	2.0	4.3	3.3	2.0	1.0	1.0
HM11-W192	3.0	2.0	3.3	3.3	2.0	1.0	1.0
LD10-2477	3.0	3.0	3.3	3.7	2.0	1.0	1.0
LD10-9168	2.0	2.5	3.0	3.7	2.0	1.0	1.3
LD10-9200	1.0	2.0	3.0	3.3	2.0	1.0	1.0
LD10-9409	3.0	2.0	2.7	3.3	2.0	1.0	1.0
LD10-9763	2.0	1.5	6.8	3.7	2.0	1.0	1.0
LD10-10219	1.0	2.0	3.3	3.3	2.0	1.0	1.0
LD10-10226	3.0	2.0	3.0	3.3	2.0	1.0	1.0
LG11-6210	2.0	2.0	3.3	2.7	2.0	1.0	1.0
LG11-6214	2.0	2.0	4.3	4.3	2.0	1.0	1.0
U11-616086	2.0	1.5	2.7	2.7	2.0	1.0	1.0
U11-616111	3.0	2.5	3.0	3.7	2.0	1.0	1.0
U11-622148	4.0	1.5	3.7	3.3	2.0	1.0	1.0
U11-649117	3.0	2.0	3.7	3.3	2.0	1.0	1.0

Uniform Test III, 2014

Seed Size (g/100)

Strain	Mean 15 Tests	Ames IA	Crawfordsville IA	Arthur IL	Urbana IL	Butlerville IN	Lafayette IN	Wanatah IN
IA3023 (III)	16.7	16.0	14.2	16.4	17.2	16.7	14.4	15.1
IA3024	16.3	16.7	13.6	16.6	17.3	13.4	15.5	15.6
IA3048 (SCN)	16.0	15.8	13.6	16.6	16.1	17.0	15.2	16.7
IA4005	14.8	15.3	12.1	15.1	14.0	12.6	13.6	14.6
AR11-214015	17.2	16.5	14.2	18.6	17.2	15.3	15.1	15.2
HM11-W192	19.6	15.6	17.8	22.6	20.2	19.5	17.0	18.7
LD10-2477	17.1	17.3	15.3	18.2	17.4	16.8	16.0	16.3
LD10-9168	15.3	16.9	13.5	16.4	15.1	14.5	13.3	15.1
LD10-9200	15.0	19.8	12.3	15.9	14.5	13.9	13.1	15.2
LD10-9409	15.3	15.7	13.7	16.1	16.3	14.5	12.2	15.9
LD10-9763	15.2	16.5	13.3	14.4	15.3	15.5	14.4	17.0
LD10-10219	16.0	16.8	12.8	15.7	17.5	15.6	16.4	16.4
LD10-10226	16.6	15.7	14.4	17.6	17.2	15.5	15.5	18.0
LG11-6210	15.1	17.4	13.5	15.5	15.3	15.3	14.4	18.2
LG11-6214	15.2	16.1	14.1	16.5	15.4	15.5	14.0	15.6
U11-616086	15.3	16.9	14.5	15.6	16.6	15.2	14.0	15.5
U11-616111	16.3	17.1	13.3	17.2	18.2	15.4	15.3	14.8
U11-622148	16.2	17.2	13.9	16.8	17.6	15.3	15.5	15.8
U11-649117	16.2	15.7	15.5	16.7	16.8	15.1	14.7	16.2

Uniform Test III, 2014

Seed Size (g/100)

Strain	Manhattan KS	Ottawa KS	Novelty MO	Portageville MO (Clay)	Portageville MO (Loam)	Lincoln NE	Hoytville OH	St. Charleston OH
IA3023 (III)	16.0	14	18.4	19.7	17.4	18.4	18.6	17.3
IA3024	16.8	15.4	17.1	18.4	15.8	18.5	17.1	17.4
IA3048 (SCN)	15.0	15.2	15.6	17.5	14.5	16.8	16.2	17.7
IA4005	15.6	13.9	14.6	16.5	15.5	16.8	16.9	15.1
AR11-214015	18.3	15.1	19.9	19.8	16.9	18.9	17.3	19.5
HM11-W192	18.8	17.6	22.7	20.4	19.5	21.6	20.6	21.7
LD10-2477	17.0	16.5	17.4	18.9	17.2	17.2	18.2	16.7
LD10-9168	14.2	15.2	16.6	16.3	14.8	16.1	16.0	16.1
LD10-9200	13.8	12.9	16.7	17.4	14.5	15.8	14.7	14.7
LD10-9409	14.6	14.4	14.6	16.1	15	16.6	17.5	16.8
LD10-9763	14.4	13.5	16.9	10.9	14.4	17.1	17.4	17.4
LD10-10219	14.7	14.7	16.1	17.2	15.1	16.3	17.4	16.8
LD10-10226	16.2	15.6	18.2	16.9	15.9	17.7	17.2	16.7
LG11-6210	13.8	11.9	16.2	14.6	14.3	15.6	15.1	15.8
LG11-6214	14.0	12.7	15.9	15.6	14.8	16.3	15.3	15.5
U11-616086	14.8	13.7	15.7	15.5	14.5	15.8	15.5	16.1
U11-616111	15.0	15.1	20.7	17.2	15.3	17.0	16.6	16.3
U11-622148	14.0	14.5	18.1	16.5	16.1	17.3	16.5	17.2
U11-649117	17.0	15.3	16.3	17.3	15.5	16.9	17.1	17.1

Uniform Test III, 2014

Protein (%)

Strain	Mean 9 Tests	Ames IA	Arthur IL	Urbana IL	Lafayette IN	Novelty MO	Portageville MO(Clay)	Lincoln NE	Hoytville OH	St. Charleston OH
IA3023 (III)	34.1	34.1	33.7	33.3	33.9	34.8	35.3	33.3	33.9	34.2
IA3024	33.6	34.3	33.6	32.0	33.8	34.2	34.5	33.4	33.1	33.7
IA3048 (SCN)	35.0	35.8	35.8	33.8	35.6	35.4	35.5	35.1	32.6	35.3
IA4005	34.9	35.5	35.1	33.5	34.9	35.4	35.7	35.1	34.4	34.6
AR11-214015	33.3	33.7	33.5	31.8	33.6	33.9	34.8	32.6	32.8	32.8
HM11-W192	36.9	37.0	37.3	35.5	37.2	37.5	37.4	37.0	36.0	37.2
LD10-2477	34.4	34.1	35.1	33.2	34.8	34.5	35.7	33.4	34.0	34.4
LD10-9168	34.8	34.9	35.3	33.3	35.3	35.5	34.9	33.9	33.9	35.9
LD10-9200	35.0	35.4	35.3	32.8	35.5	35.7	36.7	34.8	33.7	35.3
LD10-9409	34.5	35.2	34.8	33.9	34.5	33.5	35.9	33.9	33.8	35.2
LD10-9763	35.1	34.8	35.4	34.2	35.4	34.8	34.5	35.3	35.4	35.8
LD10-10219	35.0	35.1	35.5	33.9	35.3	35.1	36.2	34.3	34.2	35.6
LD10-10226	34.8	35.7	35.4	33.7	35.6	35.4	35.4	34.6	33.7	33.9
LG11-6210	35.3	35.9	36.0	34.2	36.1	35.4	35.9	35.0	33.6	36.1
LG11-6214	35.2	35.6	35.5	34.2	35.6	35.8	36.4	35.2	33.6	35.2
U11-616086	33.2	34.2	34.0	31.8	33.6	33.5	32.4	33.7	31.8	33.8
U11-616111	33.4	33.8	34.4	32.3	33.6	34.3	34.3	33.1	31.4	33.7
U11-622148	34.4	35.3	34.5	33.1	34.2	35.1	34.5	34.3	34.0	34.7
U11-649117	34.6	35.8	34.3	32.9	34.5	35.1	35.2	35.0	33.4	35.0

Uniform Test III, 2014

Oil (%)

Strain	Mean 9 Tests	Ames IA	Arthur IL	Urbana IL	Lafayette IN	Novelty MO	Portageville MO(Clay)	Lincoln NE	Hoytville OH	St. Charleston OH
IA3023 (III)	19.6	18.8	19.6	20.0	19.9	19.7	19.4	19.5	19.4	19.7
IA3024	20.1	18.9	20.4	21.0	20.0	20.2	20.9	19.6	19.9	20.2
IA3048 (SCN)	19.1	17.8	18.9	19.5	18.8	19.2	20.2	18.7	19.6	19.3
IA4005	19.2	18.4	19.3	19.4	19.3	19.0	20.4	18.9	18.9	19.5
AR11-214015	20.4	19.5	20.5	21.2	20.1	20.6	20.8	20.3	19.9	21.0
HM11-W192	18.8	18.3	19.1	19.1	18.5	18.7	19.3	18.2	18.9	18.8
LD10-2477	20.0	19.2	19.8	20.6	19.6	20.4	20.4	19.9	19.7	20.0
LD10-9168	19.0	18.5	19.1	19.4	19.1	19.2	19.5	19.1	18.9	18.3
LD10-9200	18.9	18.4	18.7	19.4	18.8	19.1	19.2	18.8	18.8	18.9
LD10-9409	19.2	18.4	19.3	19.4	18.8	19.8	20.0	19.1	18.9	19.1
LD10-9763	18.9	18.6	19.0	19.4	18.6	19.1	19.9	18.4	18.3	18.9
LD10-10219	18.7	18.2	18.2	18.9	18.7	18.9	19.1	18.6	18.6	18.7
LD10-10226	19.4	18.6	19.2	19.7	19.3	19.5	20.1	19.1	19.3	19.9
LG11-6210	18.5	17.8	18.6	19.0	18.1	18.7	19.1	18.2	18.5	18.4
LG11-6214	18.0	17.7	18.1	18.6	17.8	17.9	18.3	17.7	18.3	18.0
U11-616086	19.7	18.8	19.6	20.5	19.5	20.0	21.0	18.9	19.7	19.6
U11-616111	20.2	19.5	20.1	20.5	20.4	20.1	20.8	20.0	20.4	20.1
U11-622148	19.6	18.8	19.9	20.2	19.8	19.7	20.3	19.1	19.3	19.6
U11-649117	19.6	18.5	20.1	19.9	19.7	19.6	20.4	19.3	19.6	19.5

Preliminary Test IIIA, 2014

Ent.	Strain	Parentage	Seed Source	Previous Testing	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.	AR13-332001	AR07-176037 x Syngenta 05JR200591	Cianzo	F5	BSR
6.	AR13-332013	AR07-176037 x Syngenta 05RM926756	Cianzo	F5	BSR
7.	AR13-332017	PI 424169A x Golden Harvest 24040	Cianzo	F4	PR
8.	AR13-332023	AR06-364039 x Syngenta 03JR101916	Cianzo	F5	SDS
9.	AR13-332029	AR07-376031 x Syngenta 05JR200591	Cianzo	F5	SDS
10.	AR13-332030	AR07-376031 x Syngenta 05JR200591	Cianzo	F5	SDS
11.	AR13-332047	AR07-176075 x Syngenta 05JR200591	Cianzo	F4	
12.	AR13-332056	AR07-176075 x Syngenta 05RM926756	Cianzo	F4	
13.	AR13-332057	AR07-176075 x Syngenta 05RM926756	Cianzo	F4	
14.	AR13-332085	AR07-276077 x Syngenta 05RM926756	Cianzo	F4	
15.	AW12-801031	IA2101 x NuTech 83Y36-A	Fehr	F4	1% linolenic
16.	AW12-801045	A08-252040 x IA2101	Fehr	F4	1% linolenic
17.	HM12-N067	E05030 x LD04-13265	McHale	F4	
18.	HM12-N069	E05030 x LD04-13265	McHale	F4	
19.	HM12-O040	LD04-13265 x [HS5W-767 x (Dennison x 532.465)]	McHale	F4	
20.	HM12-O068	HS6-3973 x LD04-13265	McHale	F4	
21.	HM12-W069	HS6-3976 x HS5W-661	McHale	F4	
22.	HM12-W171	HS6-3973 x (HS4-9890 x HS1-3886)	McHale	F4	
23.	HM12-W180	HS6-3973 x (HS4-9890 x HS1-3886)	McHale	F4	
24.	HM12-W300	HS7-6857 x LD04-13265	McHale	F4	
25.	HR10-3325	LG00-6182xLG02-4198	Mian	F5	
26.	HR10-3329	LG00-6182xLG02-4198	Mian	F5	
27.	HR10-3349	LG01-4918xH-2885	Mian	F5	
28.	SA11-3268	S05-11482 x S08-096	Scaboo	F5	

Preliminary Test IIIA, 2014

Descriptive and Disease Data

Strain	Descriptive Code	Green Stem Score St. Charleston OH	Shattering Score Manhattan KS
IA3023 (III)	WLtTDYBlI	2.5	1
IA3024	PGTDYIbI	1.9	1
IA3048 (SCN)	WGBIYYI	2.4	1
IA4005	WTBDYBlI	4.1	2
AR13-332001	WGBDYBfI	2.7	4
AR13-332013	PTBDYBrI	2.5	1
AR13-332017	PGBDYIbI	1.6	1
AR13-332023	PTTDYBlI	1.2	1
AR13-332029	PGBDYBfI	1.3	2
AR13-332030	PLtBDYBlI	4.1	3
AR13-332047	PLtBDYBlI	0.4	4
AR13-332056	PGTDYBfI	1.3	2
AR13-332057	PGBDYDibI	1.0	3
AR13-332085	PTTDYBlI	0.9	2
AW12-801031	PGBDYIbI	1.0	2
AW12-801045	PGBDYBfI	1.2	2
HM12-N067	WTTDYBlI	3.4	1
HM12-N069	PTTDYBlI	1.8	1
HM12-O040	PTTDYBlI	3.3	1
HM12-O068	WTTDYBlI	1.9	1
HM12-W069	WTTDYBlI	2.1	1
HM12-W171	PGBDYIbI	1.6	1
HM12-W180	PLtTDYBlI	3.1	1
HM12-W300	PG+TBDYIbI	4.0	1
HR10-3325	PGBDYIbI	1.9	1
HR10-3329	PGBDYIbI	1.9	1
HR10-3349	WGBDYBfI	3.0	1
SA11-3268	PGBDYIbI	3.5	1

Preliminary Test IIIA, 2014

Regional Summary

	Yield	Rank	Maturity	Lodging	Plant Height	Seed Quality	Seed Size	Composition	
								Protein	Oil
No. of Tests	10	10	8	8	7	9	9	6	6
Strain	bu/a	No.	Date	Score	In	Score	g/100	(%)	(%)
IA3023 (III)	61.7	1	9/25	1.3	30.9	1.8	16.8	33.8	19.7
IA3024	54.8	21	-1.3	1.5	31.9	2.2	16.7	33.7	20.0
IA3048 (SCN)	61.2	2	-0.6	1.6	32.1	1.9	16.4	34.7	19.3
IA4005	60.7	4	5.9	1.1	29.7	1.8	15.2	34.4	19.3
AR13-332001	60.8	3	-0.5	1.2	29.6	2.6	18.8	35.5	18.8
AR13-332013	55.3	18	-0.1	1.6	33.1	2.1	17.3	35.6	19.2
AR13-332017	53.1	25	-7.5	1.1	31.0	2.0	17.0	35.2	20.2
AR13-332023	55.0	19	-3.4	1.2	30.4	1.8	15.7	35.5	19.6
AR13-332029	59.5	5	-3.3	1.5	34.5	1.9	15.5	34.9	19.5
AR13-332030	59.2	7	1.5	1.4	33.6	1.7	14.8	35.1	19.1
AR13-332047	58.4	10	-6.3	1.4	29.3	2.1	18.4	35.1	19.4
AR13-332056	58.9	8	-5.9	1.1	28.6	2.1	18.5	34.7	19.5
AR13-332057	58.4	11	-5.9	1.5	31.0	2.2	17.8	35.5	19.7
AR13-332085	52.7	26	-7.3	1.3	30.5	1.9	15.4	34.4	19.7
AW12-801031	51.2	27	-7.7	1.4	29.6	2.5	16.8	34.5	19.1
AW12-801045	53.1	24	-4.6	1.8	30.9	2.1	16.7	33.9	20.2
HM12-N067	58.8	9	3.4	1.9	36.8	1.9	15.9	34.4	19.4
HM12-N069	59.4	6	3.4	2.1	35.3	1.9	17.5	36.1	19.2
HM12-O040	54.2	22	-0.6	2.2	37.0	2.1	17.2	35.6	19.0
HM12-O068	57.0	17	1.2	1.8	33.3	2.1	17.6	35.2	19.3
HM12-W069	50.7	28	-3.4	1.9	33.1	1.9	19.4	35.8	18.8
HM12-W171	57.4	16	-1.4	1.2	30.9	1.9	18.5	34.6	19.6
HM12-W180	57.5	15	-1.3	1.6	31.0	1.8	18.1	35.1	19.3
HM12-W300	57.7	14	4.3	2.3	37.5	2.3	15.9	35.7	19.0
HR10-3325	58.3	12	-2.4	1.6	32.8	1.9	15.1	33.6	19.4
HR10-3329	55.0	20	0.8	2.4	35.1	2.4	17.6	33.8	20.0
HR10-3349	58.0	13	-0.4	1.8	32.0	2.0	18.7	35.0	19.2
SA11-3268	53.7	23	3.2	2.1	33.1	2.1	13.8	35.8	18.3

126.3 Days After Planting

Preliminary Test IIIA, 2014

Yield (bu/a)

Strain	Mean 10 Tests	Crawfordsville IA	Urbana IL	Lafayette IN	Manhattan KS	Ottawa KS
IA3023 (III)	61.7	60.9	70.0	69.3	41.6	33.8
IA3024	54.8	51.8	66.6	61.6	40.0	34.9
IA3048 (SCN)	61.2	55.2	73.0	71.7	47.8	39.1
IA4005	60.7	52.7	64.5	66.3	48.8	35.8
AR13-332001	60.8	62.0	71.8	67.0	44.3	35.9
AR13-332013	55.3	60.0	73.7	61.6	40.8	34.3
AR13-332017	53.1	47.2	63.4	58.6	34.3	32.5
AR13-332023	55.0	54.7	69.3	57.1	37.6	32.1
AR13-332029	59.5	63.3	71.1	59.0	50.6	34.7
AR13-332030	59.2	66.4	70.9	51.1	41.8	34.3
AR13-332047	58.4	61.4	76.2	66.9	31.5	30.5
AR13-332056	58.9	58.3	71.2	71.2	35.0	31.0
AR13-332057	58.4	56.4	72.6	66.3	36.9	33.7
AR13-332085	52.7	55.8	68.6	55.9	37.8	31.8
AW12-801031	51.2	50.4	62.7	54.7	32.0	34.0
AW12-801045	53.1	54.4	63.7	68.3	33.3	32.9
HM12-N067	58.8	55.6	67.4	55.7	46.8	35.5
HM12-N069	59.4	57.7	71.2	65.3	51.8	36.6
HM12-O040	54.2	49.5	65.3	54.9	45.0	32.4
HM12-O068	57.0	55.5	68.4	59.5	38.3	37.5
HM12-W069	50.7	52.1	61.8	49.2	32.8	31.3
HM12-W171	57.4	63.0	67.1	59.5	37.0	33.1
HM12-W180	57.5	58.6	68.5	54.5	42.1	32.4
HM12-W300	57.7	56.3	68.6	56.4	50.4	33.6
HR10-3325	58.3	62.6	66.8	56.0	34.7	38.0
HR10-3329	55.0	57.7	70.6	55.2	39.8	38.6
HR10-3349	58.0	61.0	67.2	55.8	41.6	39.3
SA11-3268	53.7	55.8	58.4	41.9	51.3	38.2
Location Mean		57.0	68.2	59.7	40.9	34.6
C.V. (%)		5.9	5.5	14.2	9.6	5.3
L.S.D. (5%)		6.9	7.7	13.7	8.1	3.8
Row Sp (In.)		30	30	30	4	4
Rows/Plot		4	4	4	30	30
Reps		2	2	2	2	2

Preliminary Test IIIA, 2014

Yield (bu/a)

Strain	Novelty MO	Lincoln NE	Wymore NE	Hoytville OH	St. Charleston OH
IA3023 (III)	70.6	89.3	48.5	67.8	64.8
IA3024	55.4	74.8	48.4	62.5	51.8
IA3048 (SCN)	70.7	75.9	49.9	71.1	57.7
IA4005	69.3	86.6	53.6	68.3	61.3
AR13-332001	66.9	76.8	52.8	66.2	64.5
AR13-332013	39.4	67.8	54.6	55.7	64.9
AR13-332017	55.7	85.8	47.8	61.5	43.7
AR13-332023	59.3	75.0	46.9	58.2	60.2
AR13-332029	74.6	74.3	49.1	62.2	56.1
AR13-332030	76.5	73.9	48.5	66.4	61.8
AR13-332047	68.8	74.5	46.2	63.1	65.2
AR13-332056	61.4	80.5	54.8	65.0	60.6
AR13-332057	64.0	75.6	52.3	66.4	59.6
AR13-332085	51.0	70.9	50.6	60.5	43.8
AW12-801031	60.0	71.7	51.4	54.9	40.0
AW12-801045	60.1	72.8	42.5	58.6	44.8
HM12-N067	76.2	78.8	48.8	68.8	54.0
HM12-N069	69.3	69.8	50.8	70.5	50.8
HM12-O040	61.6	71.3	47.9	62.9	51.8
HM12-O068	63.3	71.8	54.8	66.5	54.2
HM12-W069	58.0	67.3	39.1	60.4	54.8
HM12-W171	70.7	71.5	49.4	66.5	56.2
HM12-W180	70.8	72.3	54.0	61.4	60.4
HM12-W300	65.4	69.2	49.7	67.0	60.2
HR10-3325	70.5	75.2	43.6	73.7	61.7
HR10-3329	45.5	69.5	53.3	67.9	52.2
HR10-3349	68.3	78.9	48.9	66.2	52.6
SA11-3268	61.3	58.5	54.7	66.4	50.4
Location Mean	63.7	74.3	49.7	64.5	55.7
C.V. (%)	10.7	6.3	13.9	4.9	10.8
L.S.D. (5%)	13.9	11.6	17.3	6.5	12.6
Row Sp (In.)	30	30	30	5	15
Rows/Plot	4	4	4	8	6
Reps	2	2	2	2	2

Preliminary Test IIIA, 2014

Yield Rank

Strain	Yield Rank 10 Tests	Crawfordsville IA	Urbana IL	Lafayette IN	Manhattan KS	Ottawa KS
IA3023 (III)	1	8	11	3	13	16
IA3024	21	25	21	10	15	11
IA3048 (SCN)	2	20	3	1	6	2
IA4005	4	23	23	7	5	9
AR13-332001	3	5	5	5	9	8
AR13-332013	18	9	2	11	14	13
AR13-332017	25	28	25	15	24	21
AR13-332023	19	21	12	16	19	24
AR13-332029	5	2	8	14	3	12
AR13-332030	7	1	9	26	11	14
AR13-332047	10	6	1	6	28	28
AR13-332056	8	11	6	2	22	27
AR13-332057	11	14	4	8	21	17
AR13-332085	26	16	14	19	18	25
AW12-801031	27	26	26	24	27	15
AW12-801045	24	22	24	4	25	20
HM12-N067	9	18	17	21	7	10
HM12-N069	6	13	7	9	1	7
HM12-O040	22	27	22	23	8	23
HM12-O068	17	19	16	13	17	6
HM12-W069	28	24	27	27	26	26
HM12-W171	16	3	19	12	20	19
HM12-W180	15	10	15	25	10	22
HM12-W300	14	15	13	17	4	18
HR10-3325	12	4	20	18	23	5
HR10-3329	20	12	10	22	16	3
HR10-3349	13	7	18	20	12	1
SA11-3268	23	17	28	28	2	4

Preliminary Test IIIA, 2014

Yield Rank

Strain	Novelty MO	Lincoln NE	Wymore NE	Hoytville OH	St. Charleston OH
IA3023 (III)	7	1	19	7	3
IA3024	25	12	21	15	21
IA3048 (SCN)	5	8	13	2	13
IA4005	9	2	6	5	7
AR13-332001	13	7	8	11	4
AR13-332013	28	26	4	23	2
AR13-332017	24	3	23	17	27
AR13-332023	22	11	24	22	10
AR13-332029	3	14	16	16	15
AR13-332030	1	15	19	10	5
AR13-332047	11	13	25	13	1
AR13-332056	18	4	1	12	8
AR13-332057	15	9	9	10	12
AR13-332085	26	22	12	19	26
AW12-801031	21	19	10	24	28
AW12-801045	20	16	27	21	25
HM12-N067	2	6	18	4	18
HM12-N069	9	23	11	3	23
HM12-O040	17	21	22	14	21
HM12-O068	16	18	2	9	17
HM12-W069	23	27	28	20	16
HM12-W171	5	20	15	9	14
HM12-W180	4	17	5	18	9
HM12-W300	14	25	14	8	10
HR10-3325	8	10	26	1	6
HR10-3329	27	24	7	6	20
HR10-3349	12	5	17	11	19
SA11-3268	19	28	3	10	24

Preliminary Test IIIA, 2014

Maturity (date)

Strain	Mean 9 Tests	Crawfordsville IA	Urbana IL	Lafayette IN	Manhattan KS	Ottawa KS
IA3023 (III)	9/25	9/25	9/24	9/29	9/29	9/5
IA3024	-1.3	-5.0	-1.0	-2.5	-1.0	7.5
IA3048 (SCN)	-0.6	-0.5	1.0	-3.5	-1.0	7.0
IA4005	5.9	-0.5	9.0	1.0	1.0	16.5
AR13-332001	-0.5	-1.0	4.0	0.0	-1.5	0.5
AR13-332013	-0.1	0.5	2.0	-1.0	-6.0	7.5
AR13-332017	-7.5	-7.5	-6.0	-4.5	-16.0	-0.5
AR13-332023	-3.4	-3.0	0.0	-6.0	-10.0	-0.5
AR13-332029	-3.3	1.5	0.0	-1.5	-11.5	-0.5
AR13-332030	1.5	2.0	5.0	-0.5	-1.5	8.0
AR13-332047	-6.3	-5.5	-3.0	-2.0	-19.0	0.5
AR13-332056	-5.9	-6.0	-3.0	-4.5	-14.0	0.5
AR13-332057	-5.9	-6.0	-2.0	-7.0	-11.5	2.0
AR13-332085	-7.3	-8.0	-5.0	-6.5	-14.5	3.0
AW12-801031	-7.7	-7.0	-5.0	-9.5	-17.5	0.0
AW12-801045	-4.6	-5.0	-2.0	-7.0	-6.5	0.0
HM12-N067	3.4	0.5	4.0	4.0	0.5	13.0
HM12-N069	3.4	0.5	5.0	1.0	-0.5	17.0
HM12-O040	-0.6	1.0	4.0	1.0	-11.5	8.0
HM12-O068	1.2	0.5	4.0	-0.5	0.0	7.5
HM12-W069	-3.4	-5.0	-1.0	-1.0	-9.5	4.5
HM12-W171	-1.4	-1.0	1.0	-2.5	-6.0	3.5
HM12-W180	-1.3	-2.0	-1.0	-2.0	-5.0	5.0
HM12-W300	4.3	3.5	6.0	1.0	0.5	17.0
HR10-3325	-2.4	0.0	0.0	1.5	-12.5	7.0
HR10-3329	0.8	1.0	4.0	-2.5	-1.5	9.5
HR10-3349	-0.4	-0.5	3.0	-1.5	-2.0	4.0
SA11-3268	3.2	7.0	7.0	-0.5	-1.5	13.0
Date Planted	5/23	5/21	5/21	5/26	5/14	5/21
Days To Mature	126.3	127.0	126.0	126.0	138.0	107.0

Preliminary Test IIIA, 2014

Maturity (date)

Strain	Novelty MO	Lincoln NE	Wymore NE	Hoytville OH	St. Charleston OH
IA3023 (III)	9/27	9/29	.	10/4	9/30
IA3024	-1.5	-2.0	.	-4.0	-6.0
IA3048 (SCN)	-1.5	-1.0	.	-1.5	-4.0
IA4005	3.0	9.0	.	3.0	4.5
AR13-332001	-5.0	1.0	.	-0.5	-2.5
AR13-332013	-1.0	-1.0	.	-0.5	-0.5
AR13-332017	-10.0	-7.0	.	-5.5	-10.5
AR13-332023	-2.0	-2.0	.	-0.5	-6.5
AR13-332029	-2.0	-3.0	.	-4.5	-3.0
AR13-332030	-1.5	-1.0	.	0.0	3.5
AR13-332047	-4.5	-8.0	.	-7.5	-6.5
AR13-332056	-7.5	-8.0	.	-4.5	-6.5
AR13-332057	-5.5	-9.0	.	-7.0	-7.0
AR13-332085	-7.5	-10.0	.	-10.0	-8.0
AW12-801031	-4.5	-7.0	.	-8.0	-10.0
AW12-801045	-2.0	-8.0	.	-5.0	-6.0
HM12-N067	-1.0	4.0	.	0.5	2.5
HM12-N069	-0.5	5.0	.	0.0	0.5
HM12-O040	-0.5	-1.0	.	-2.0	-2.5
HM12-O068	-1.0	2.0	.	-0.5	-2.0
HM12-W069	-4.0	-6.0	.	-4.5	-5.5
HM12-W171	-1.0	-1.0	.	-2.5	-3.0
HM12-W180	-1.5	-2.0	.	-2.0	-1.5
HM12-W300	0.5	2.0	.	4.0	3.0
HR10-3325	-1.5	-5.0	.	-2.0	-6.5
HR10-3329	-1.0	1.0	.	-1.5	-1.5
HR10-3349	-1.0	1.0	.	-4.0	-2.5
SA11-3268	2.0	8.0	.	1.5	-4.0
Date Planted	5/19	5/29	5/28	5/31	5/20
Days To Mature	131.0	123.0	.	126.0	133.0

Preliminary Test IIIA, 2014

Lodging (score)

Strain	Mean 8 Tests	Urbana IL	Lafayette IN	Manhattan KS	Ottawa KS	Novelty MO	Lincoln NE	Hoytville OH	St. Charleston OH
IA3023 (III)	1.3	1.5	1.8	1.0	1.0	1.5	1.5	1.0	1.2
IA3024	1.5	1.5	1.3	2.0	1.0	1.5	2.5	1.0	1.1
IA3048 (SCN)	1.6	1.8	1.8	1.5	1.0	1.8	2.5	1.0	1.2
IA4005	1.1	1.5	1.0	1.0	1.0	1.5	1.0	1.0	1.0
AR13-332001	1.2	1.5	1.0	1.0	1.0	2.0	1.0	1.0	1.1
AR13-332013	1.6	2.0	1.3	2.0	1.0	1.8	2.0	1.0	1.5
AR13-332017	1.1	1.5	1.0	1.0	1.0	1.5	1.0	1.0	1.1
AR13-332023	1.2	1.7	1.0	1.0	1.0	1.5	1.0	1.0	1.1
AR13-332029	1.5	1.5	1.3	1.5	1.0	2.5	2.5	1.0	1.0
AR13-332030	1.4	1.8	1.3	1.0	1.0	2.0	2.0	1.0	1.3
AR13-332047	1.4	1.5	1.8	1.5	1.0	1.8	1.5	1.0	1.3
AR13-332056	1.1	1.3	1.3	1.0	1.0	1.5	1.0	1.0	1.1
AR13-332057	1.5	1.5	1.5	2.0	1.0	2.5	1.5	1.0	1.1
AR13-332085	1.3	1.5	1.5	1.5	1.0	1.8	1.0	1.0	1.1
AW12-801031	1.4	1.5	1.3	1.5	1.0	1.8	2.0	1.0	1.1
AW12-801045	1.8	1.8	1.8	2.0	1.0	2.5	3.5	1.0	1.1
HM12-N067	1.9	2.0	1.5	2.0	1.0	3.3	2.5	1.0	1.6
HM12-N069	2.1	2.0	1.8	2.5	1.0	4.3	3.0	1.0	1.6
HM12-O040	2.2	2.0	1.8	2.5	1.0	4.3	2.5	1.0	2.7
HM12-O068	1.8	2.0	1.5	1.5	1.0	3.5	2.0	1.0	2.0
HM12-W069	1.9	1.5	1.8	2.5	1.0	3.0	2.5	1.0	1.6
HM12-W171	1.2	1.3	1.3	1.0	1.0	1.8	1.5	1.0	1.1
HM12-W180	1.6	1.5	1.3	2.0	1.0	2.5	2.0	1.0	1.5
HM12-W300	2.3	2.5	1.5	2.0	1.0	4.5	3.0	1.0	3.1
HR10-3325	1.6	2.0	1.0	2.0	1.5	1.8	2.5	1.0	1.0
HR10-3329	2.4	2.8	1.8	2.0	1.0	3.5	4.0	1.0	3.1
HR10-3349	1.8	2.3	1.5	2.5	1.0	2.3	2.5	1.0	1.6
SA11-3268	2.1	1.8	1.5	2.0	1.0	4.5	4.0	1.0	1.0

Preliminary Test IIIA, 2014

Plant Height (inches)

Strain	Mean 8 Tests	Urbana IL	Lafayette IN	Manhattan KS	Ottawa KS	Novelty MO	Lincoln NE	Hoytville OH	St. Charleston OH
IA3023 (III)	30.9	33.0	33.5	29.0	27.5	28.5	38.5	26.0	31.6
IA3024	31.9	34.0	35.0	32.5	28.0	29	37.5	27.0	28.8
IA3048 (SCN)	32.1	34.0	33.0	31.5	30.0	29.9	37.5	29.0	28.7
IA4005	29.7	30.0	33.0	29.0	26.0	28.6	34.0	27.0	26.4
AR13-332001	29.6	35.0	32.0	27.5	24.5	28.5	35.0	25.0	27.4
AR13-332013	33.1	38.0	34.5	30.0	30.5	30.7	40.0	28.0	33.0
AR13-332017	31.0	33.0	35.0	29.0	26.0	32.3	36.0	26.0	28.0
AR13-332023	30.4	35.0	37.5	26.5	25.0	28.5	34.0	26.0	30.0
AR13-332029	34.5	38.0	36.5	33.0	27.5	32.3	46.0	28.0	31.4
AR13-332030	33.6	37.0	35.0	30.5	29.0	34.9	41.5	27.0	32.3
AR13-332047	29.3	35.0	33.0	24.5	26.0	26.4	35.5	25.0	30.2
AR13-332056	28.6	31.0	35.0	26.5	26.0	25.2	31.5	25.0	25.0
AR13-332057	31.0	33.0	36.0	29.0	29.5	29.1	34.5	26.0	29.2
AR13-332085	30.5	32.0	35.5	28.5	25.0	27.6	37.0	28.0	26.3
AW12-801031	29.6	31.0	34.5	25.5	27.5	28.5	35.0	25.0	27.2
AW12-801045	30.9	33.0	33.5	31.0	26.0	28.9	39.0	25.0	27.4
HM12-N067	36.8	40.0	34.5	37.5	32.0	36.9	45.5	31.0	33.8
HM12-N069	35.3	36.0	32.5	35.0	30.5	37.4	45.0	31.0	32.1
HM12-O040	37.0	39.0	37.0	37.0	33.5	40.8	42.0	30.0	35.1
HM12-O068	33.3	37.0	32.0	29.5	31.0	32.9	42.5	28.0	29.1
HM12-W069	33.1	36.0	37.5	30.5	27.5	32.7	40.5	27.0	31.4
HM12-W171	30.9	34.0	34.0	29.0	24.0	30.5	37.5	27.0	26.9
HM12-W180	31.0	34.0	35.5	26.5	27.0	29.1	39	26.0	30.5
HM12-W300	37.5	40.0	36.0	39.0	34.0	38.4	46	29.0	36.0
HR10-3325	32.8	40.0	33.5	28.5	28.5	30.7	39.5	29.0	31.8
HR10-3329	35.1	41.0	36.5	30.0	30.5	32.5	44.5	31.0	34.8
HR10-3349	32.0	35.0	35.5	28.5	29.0	28.2	41.0	27.0	29.2
SA11-3268	33.1	36.0	33.5	32.0	31.0	33.5	36.5	29.0	31.3

Preliminary Test IIIA, 2014

Seed Quality (score)

Strain	Mean 9 Tests	Crawfordsville IA	Urbana IL	Lafayette IN	Manhattan KS
IA3023 (III)	1.8	2.0	2.0	1.0	3.0
IA3024	2.2	2.0	2.0	1.0	3.0
IA3048 (SCN)	1.9	2.0	3.0	1.0	3.0
IA4005	1.8	2.0	1.0	1.0	3.0
AR13-332001	2.6	2.0	4.0	2.0	4.0
AR13-332013	2.1	2.0	3.0	1.0	3.0
AR13-332017	2.0	2.0	2.0	1.0	3.0
AR13-332023	1.8	2.0	2.0	2.0	3.0
AR13-332029	1.9	2.0	1.0	1.0	3.0
AR13-332030	1.7	2.0	2.0	1.0	3.0
AR13-332047	2.1	2.0	2.0	1.0	3.0
AR13-332056	2.1	2.0	2.0	2.0	3.0
AR13-332057	2.2	2.0	2.0	1.0	4.0
AR13-332085	1.9	2.0	2.0	1.0	3.0
AW12-801031	2.5	3.0	3.0	2.0	3.0
AW12-801045	2.1	2.0	2.0	1.0	3.0
HM12-N067	1.9	2.0	2.0	1.0	3.0
HM12-N069	1.9	2.0	2.0	1.0	3.0
HM12-O040	2.1	2.0	3.0	1.0	3.0
HM12-O068	2.1	2.0	3.0	1.0	3.0
HM12-W069	1.9	2.0	2.0	1.0	3.0
HM12-W171	1.9	2.0	2.0	2.0	3.0
HM12-W180	1.8	2.0	2.0	1.0	3.0
HM12-W300	2.3	3.0	3.0	2.0	3.0
HR10-3325	1.9	2.0	2.0	1.0	3.0
HR10-3329	2.4	2.0	3.0	2.0	3.0
HR10-3349	2.0	2.0	2.0	1.0	3.0
SA11-3268	2.1	3.0	3.0	1.0	3.0

Preliminary Test IIIA, 2014

Seed Quality (score)

Strain	Ottawa KS	Novelty MO	Lincoln NE	Hoytville OH	St. Charleston OH
IA3023 (III)	3.0	1.5	2.0	1.0	1.0
IA3024	3.0	4.0	2.0	1.0	2.0
IA3048 (SCN)	3.0	1.5	1.0	1.0	1.5
IA4005	3.0	1.5	2.0	1.0	1.5
AR13-332001	3.0	3.0	2.0	1.0	2.5
AR13-332013	3.0	2.5	2.0	1.0	1.5
AR13-332017	3.0	2.0	2.0	1.0	2.0
AR13-332023	3.0	1.5	1.0	1.0	1.0
AR13-332029	3.0	2.0	2.0	1.0	2.0
AR13-332030	3.0	1.5	1.0	1.0	1.0
AR13-332047	4.0	2.5	2.0	1.0	1.0
AR13-332056	4.0	2.0	2.0	1.0	1.0
AR13-332057	3.0	1.5	3.0	1.0	2.0
AR13-332085	3.0	2.5	2.0	1.0	1.0
AW12-801031	3.0	2.5	2.0	2.0	2.0
AW12-801045	3.0	2.5	3.0	1.0	1.0
HM12-N067	3.0	2.0	2.0	1.0	1.0
HM12-N069	3.0	2.5	2.0	1.0	1.0
HM12-O040	3.0	2.0	2.0	1.0	1.5
HM12-O068	3.0	2.5	2.0	1.0	1.0
HM12-W069	3.0	2.5	2.0	1.0	1.0
HM12-W171	3.0	1.5	1.0	2.0	1.0
HM12-W180	3.0	1.5	1.0	1.0	1.5
HM12-W300	3.0	2.0	2.0	1.0	1.5
HR10-3325	3.0	2.5	2.0	1.0	1.0
HR10-3329	4.0	3.0	2.0	1.0	1.5
HR10-3349	3.0	2.5	2.0	1.0	1.5
SA11-3268	3.0	2.0	2.0	1.0	1.0

Preliminary Test IIIA, 2014

Seed Size (g/100)

Strain	Mean 9 Tests	Crawfordsville IA	Urbana IL	Lafayette IN	Manhattan KS
IA3023 (III)	16.8	16.1	14.9	15.7	13.8
IA3024	16.7	14.9	16.9	15.8	16.0
IA3048 (SCN)	16.4	15.5	16.9	15.6	15.3
IA4005	15.2	13.0	14.5	14.1	14.9
AR13-332001	18.8	18.1	18.1	17.8	17.0
AR13-332013	17.3	16.8	17.6	16.2	16.0
AR13-332017	17.0	15.7	16.8	16.2	17.0
AR13-332023	15.7	14.2	15.5	14.5	15.0
AR13-332029	15.5	15.4	15.2	13.4	13.0
AR13-332030	14.8	15.0	14.0	13.6	13.0
AR13-332047	18.4	17.3	18.6	17.1	15.0
AR13-332056	18.5	17.6	19.0	17.1	17.2
AR13-332057	17.8	16.2	17.7	16.7	17.0
AR13-332085	15.4	14.7	16.4	13.7	13.5
AW12-801031	16.8	15.5	17.2	15.3	15.5
AW12-801045	16.7	15.8	15.9	16.4	14.8
HM12-N067	15.9	15.2	15.7	14.7	12.7
HM12-N069	17.5	15.1	18.0	16.7	16.0
HM12-O040	17.2	15.9	16.8	16.6	15.6
HM12-O068	17.6	15.7	17.5	15.7	15.0
HM12-W069	19.4	18.1	20.2	17.5	18.0
HM12-W171	18.5	18.1	17.7	18.0	17.0
HM12-W180	18.1	16.8	18.0	15.9	17.0
HM12-W300	15.9	14.8	15.9	14.5	13.5
HR10-3325	15.1	15.1	13.9	13.3	14.0
HR10-3329	17.6	16.6	16.2	15.1	17.6
HR10-3349	18.7	18.6	18.4	18.3	15.6
SA11-3268	13.8	13.3	13.8	12.9	12.5

Preliminary Test IIIA, 2014

Seed Size (g/100)

Strain	Ottawa KS	Novelty MO	Lincoln NE	Hoytville OH	St. Charleston OH
IA3023 (III)	14.7	20.5	18.6	18.3	18.5
IA3024	14.6	18.4	18.7	17.3	17.8
IA3048 (SCN)	14.1	18.2	17.3	16.5	17.9
IA4005	13.7	17.4	16.8	16.9	15.8
AR13-332001	14.2	22.5	19.9	20.5	21.3
AR13-332013	16.5	18.1	17.6	18.1	18.5
AR13-332017	14.9	19.7	19.4	17.0	16.4
AR13-332023	14.0	16.9	15.7	17.6	17.9
AR13-332029	16.6	17.2	16.5	15.8	16.0
AR13-332030	13.6	17.2	15.2	16.1	15.8
AR13-332047	16.5	21.7	20.3	18.9	19.9
AR13-332056	17.1	21.4	18.9	19.1	19.1
AR13-332057	15.7	21.4	18.4	18.4	18.9
AR13-332085	14.2	17.4	16.5	16.3	15.5
AW12-801031	15.8	20.7	18.1	16.9	15.9
AW12-801045	15.1	19.1	18.5	17.9	16.9
HM12-N067	13.9	19.3	17.9	17.3	16.7
HM12-N069	16.7	20.4	19.1	18.5	17.0
HM12-O040	16.5	17.7	18.8	18.2	18.7
HM12-O068	17.8	21.7	18.4	18.9	17.6
HM12-W069	16.9	21.7	20.5	20.3	21.6
HM12-W171	15.5	21.5	20.1	19.2	19.1
HM12-W180	15.5	22.0	19.9	18.2	19.7
HM12-W300	14.5	18.2	17.3	16.7	17.6
HR10-3325	14.9	16.5	16.4	16.1	15.7
HR10-3329	17.4	18.7	20.6	18.5	17.5
HR10-3349	17.0	21.5	20.2	19.2	19.7
SA11-3268	12.2	14.1	14.9	15.8	15.1

Preliminary Test IIIA, 2014

Protein (%)

Strain	Mean 6 Tests	Urbana IL	Lafayette IN	Novelty MO	Lincoln NE	Hoytville OH	St. Charleston OH
IA3023 (III)	33.8	32.7	33.8	35.6	33.5	33.4	34.1
IA3024	33.7	32.8	34.4	34.5	33.5	33.5	33.7
IA3048 (SCN)	34.7	34.3	35.0	35.8	34.9	33.2	34.9
IA4005	34.4	33.6	34.0	35.6	34.9	33.6	34.6
AR13-332001	35.5	34.2	35.9	35.8	35.6	35.4	36.1
AR13-332013	35.6	34.4	36.4	36.1	35.7	34.7	36.4
AR13-332017	35.2	34.0	36.2	35.9	35.3	34.3	35.2
AR13-332023	35.5	34.1	35.8	36.5	35.0	35.3	36.4
AR13-332029	34.9	33.9	35.1	35.4	35.5	34.0	35.3
AR13-332030	35.1	34.0	34.6	35.8	34.7	34.9	36.4
AR13-332047	35.1	34.8	34.9	36.0	34.7	33.9	36.1
AR13-332056	34.7	34.1	35.6	35.6	34.6	33.9	34.5
AR13-332057	35.5	35.0	35.7	36.4	35.3	34.9	36.0
AR13-332085	34.4	34.0	35.4	35.6	34.3	33.4	33.8
AW12-801031	34.5	34.2	35.3	35.6	34.6	34.1	33.0
AW12-801045	33.9	32.5	35.2	34.4	33.5	34.7	33.1
HM12-N067	34.4	33.0	35.0	35.1	34.9	33.2	34.9
HM12-N069	36.1	34.8	36.5	37.0	36.6	35.5	36.3
HM12-O040	35.6	34.1	35.8	36.4	35.6	35.6	36.2
HM12-O068	35.2	34.0	35.3	36.6	35.8	34.4	34.9
HM12-W069	35.8	34.7	36.3	36.7	35.2	35.3	36.3
HM12-W171	34.6	34.7	35.3	35.7	34.6	33.2	34.2
HM12-W180	35.1	33.9	35.7	36.0	34.5	34.3	36.1
HM12-W300	35.7	34.3	36.7	36.1	35.6	34.8	36.9
HR10-3325	33.6	31.8	34.5	34.4	33.1	33.3	34.5
HR10-3329	33.8	32.9	34.3	35.0	34.5	32.5	33.5
HR10-3349	35.0	34.1	35.0	36.4	34.5	34.7	35.2
SA11-3268	35.8	34.2	36.8	36.2	36.3	35.7	35.7

Preliminary Test IIIA, 2014

Oil (%)

Strain	Mean 6 Tests	Urbana IL	Lafayette IN	Novelty MO	Lincoln NE	Hoytville OH	St. Charleston OH
IA3023 (III)	19.7	20.1	19.9	19.2	19.4	19.6	19.8
IA3024	20.0	20.5	20.0	20.0	19.7	19.6	20.3
IA3048 (SCN)	19.3	19.5	19.3	19.0	18.9	19.5	19.3
IA4005	19.3	19.4	19.6	19.1	18.8	19.3	19.5
AR13-332001	18.8	19.1	18.7	19.0	18.4	18.8	19.1
AR13-332013	19.2	19.8	18.8	19.5	18.6	19.3	18.9
AR13-332017	20.2	20.8	20.1	20.1	19.6	20.0	20.5
AR13-332023	19.6	20.1	19.7	19.7	19.0	19.4	19.7
AR13-332029	19.5	19.9	19.5	19.5	18.9	19.7	19.5
AR13-332030	19.1	19.3	19.3	19.1	18.9	19.0	18.6
AR13-332047	19.4	19.4	19.7	19.0	19.3	19.6	19.3
AR13-332056	19.5	19.6	19.6	19.5	19.1	19.4	19.8
AR13-332057	19.7	20.0	20.2	19.5	18.6	19.8	19.8
AR13-332085	19.7	19.9	19.3	19.5	19.3	20.1	20.2
AW12-801031	19.1	19.1	18.8	19.0	19.4	18.6	19.8
AW12-801045	20.2	20.7	19.7	20.2	20.2	19.7	20.9
HM12-N067	19.4	20.0	19.0	19.5	18.9	19.6	19.2
HM12-N069	19.2	19.8	19.1	19.1	18.6	19.4	19.4
HM12-O040	19.0	19.5	18.9	19.1	18.6	18.8	19.0
HM12-O068	19.3	19.6	19.4	19.1	18.9	19.2	19.7
HM12-W069	18.8	19.4	18.6	18.6	18.3	18.7	18.8
HM12-W171	19.6	19.8	19.6	19.4	19.1	19.7	20.1
HM12-W180	19.3	19.8	19.2	19.4	19.0	19.1	19.4
HM12-W300	19.0	19.5	18.6	19.2	18.9	19.1	18.8
HR10-3325	19.4	20.0	19.4	19.4	19.0	19.1	19.4
HR10-3329	20.0	20.3	20.0	20.1	19.4	20.0	20.4
HR10-3349	19.2	19.6	19.8	18.6	18.8	19.0	19.4
SA11-3268	18.3	18.9	18.0	18.4	17.8	17.9	18.7

Preliminary Test IIIB, 2014

Ent.	Strain	Parentage	Seed Source	Previous Testing	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.	LD11-1249	LD06-7648 x Syngenta 03RM893031	Diers	F4	
6.	LD11-1882	Syngenta 05RM926125 x LD00-2817P	Diers	F4	
7.	LD11-10069	LD06-2009 x LG04-6000	Diers	F4	
8.	LG10-3432	LG03-2979 x LG03-6296	Nelson	F6	genetic diversity
9.	LG11-6212	LG03-3020 x LG03-3780	Nelson	F6	genetic diversity
10.	LG12-1023	U02-242055 x LG05-4550	Nelson	F6	genetic diversity
11.	LG12-2087	LG05-4832 x LG05-4471	Nelson	F6	genetic diversity
12.	LG12-2096	LG05-4832 x LG05-4471	Nelson	F6	genetic diversity
13.	LG12-2177	U02-242055 x LG05-4550	Nelson	F6	genetic diversity
14.	LG12-3913	LG04-5187 x LG05-4557	Nelson	F6	genetic diversity
15.	U11-343008	Sheyenne x LD04-13265	Graef	F5	Rps1c, SCN
16.	U11-360009	SD02-833 x LD04-11056	Graef	F5	Rps1k, SCN
17.	U11-377007	U02-242055 x LD04-13265	Graef	F5	Rps1k, SCN
18.	U11-380035	U02-242055 x LD04-13265	Graef	F5	Rps1k, SCN
19.	U11-410122	LG04-6000 x U03-300134	Graef	F5	Rps1k
20.	U11-430085	U03-100612 x LD04-13265	Graef	F5	Rps1k, SCN
21.	U11-441098	U03-300134 x LD00-3309	Graef	F5	Rps1k, SCN
22.	U11-444083	U03-300134 x LD00-3309	Graef	F5	Rps1k, SCN
23.	U11-448096	U03-300134 x LD04-11056	Graef	F5	Rps1k, SCN
24.	U11-449088	U03-300134 x LD02-7222P	Graef	F5	Rps1k, SCN
25.	U11-468126	LD04-11056 x U06-102352	Graef	F4	SCN, IDC
26.	U11-494100	LG04-6005 x LD00-2817P	Graef	F5	SCN
27.	U11-612121	U03-100612 x LD02-7222P	Graef	F5	Rps1k, SCN
28.	U11-614093	U02-242055 x LD04-13265	Graef	F5	Rps1k, SCN
29.	U12-611009	LD02-4485 x LD04-13265	Graef	F4	SCN

Preliminary Test IIIB, 2014

Descriptive and Disease Data

Strain	Descriptive Code	Green Stem Score St. Charleston, OH	Shattering Score Manhattan, KS
IA3023 (III)	WLtTDYBlI	1.8	1
IA3024	PGTDYIbI	0.9	1
IA3048 (SCN)	WGBIYYI	1.5	1
IA4005	WTBDYBlI	1.9	1
LD11-1249	PTBDYIbI	2.2	1
LD11-1882	WGBDYBfI	2.3	2
LD11-10069	WLtBDYBlI	3.0	1
LG10-3432	PTBDYBlI	4.7	1
LG11-6212	PTTDYBlI	4.3	3
LG12-1023	WTTIYBlI	1.4	3
LG12-2087	WTBDYBlI	3.0	3
LG12-2096	PTTIYBlI	1.5	4
LG12-2177	WTBDYBlI	5.1	2
LG12-3913	PTBDYBlI	4.5	4
U11-343008	PGBDYIb+YI	3.5	1
U11-360009	PGBDYIb+BfI	2.0	1
U11-377007	WLtTDYBlI	4.0	2
U11-380035	PGBDYIbI	1.0	1
U11-410122	WLtBDYBlI	2.0	1
U11-430085	PGBDYIbI	2.2	1
U11-441098	WGBDYLbfI	2.4	1
U11-444083	P+WT+GBIYBlI	1.5	3
U11-448096	PGBDYIbI	0.9	1
U11-449088	PGBDYBlI	1.3	1
U11-468126	WTTDYBrI	4.2	1
U11-494100	WGBDYBfI	2.9	1
U11-612121	W+PG+TBDYBlI	2.0	1
U11-614093	PGBDYIbI	1.6	1
U12-611009	PGTDYIbI	2.6	1

Preliminary Test IIIB, 2014

Regional Summary

	Yield	Rank	Maturity	Lodging	Plant Height	Seed Quality	Seed Size	Composition	
								Protein	Oil
No. of Tests	9	9	8	7	7	8	8	6	6
Strain	bu/a	No.	Date	Score	In	Score	g/100	(%)	(%)
IA3023 (III)	61.6	12	9/25	1.2	31.6	1.8	17.2	33.6	19.8
IA3024	55.7	29	-3.3	1.4	31.5	1.8	16.6	33.3	20.2
IA3048 (SCN)	62.4	7	-1.0	1.5	32.3	1.8	16.7	34.7	19.2
IA4005	61.7	11	7.1	1.2	31.4	1.8	15.0	34.9	19.1
LD11-1249	58.6	22	-3.6	1.1	28.2	2.0	20.0	35.1	19.4
LD11-1882	63.4	5	0.8	1.3	32.8	1.6	17.2	32.6	20.1
LD11-10069	64.8	2	2.1	2.0	34.2	1.6	15.7	34.1	18.8
LG10-3432	59.6	18	7.6	1.8	37.0	2.4	14.1	35.5	19.1
LG11-6212	60.0	17	3.5	1.6	33.1	1.5	15.0	35.6	17.8
LG12-1023	59.4	19	-3.1	1.5	32.7	1.9	15.6	34.0	19.7
LG12-2087	56.8	27	1.6	1.9	38.9	1.5	18.5	34.9	19.3
LG12-2096	56.4	28	0.2	2.0	36.3	1.8	19.1	34.3	19.7
LG12-2177	62.5	6	4.2	1.9	33.1	1.7	16.6	34.0	20.0
LG12-3913	60.5	14	3.6	2.2	39.3	1.7	18.3	35.2	19.0
U11-343008	57.6	24	4.4	1.3	33.0	1.9	16.5	34.3	19.0
U11-360009	56.9	26	2.6	1.2	31.2	1.9	15.6	34.2	19.6
U11-377007	64.6	3	5.9	1.5	33.1	1.9	17.9	34.5	19.2
U11-380035	60.4	15	-1.8	1.1	29.8	1.9	18.1	34.8	19.9
U11-410122	61.7	10	2.3	1.8	37.2	1.9	18.8	36.0	19.1
U11-430085	62.1	8	2.6	1.5	35.6	1.9	15.8	32.7	19.5
U11-441098	57.5	25	0.2	1.2	31.3	1.6	15.9	34.4	19.6
U11-444083	62.1	9	-0.1	1.4	36.5	1.9	14.9	32.8	19.7
U11-448096	57.7	23	-2.4	1.3	30.1	1.8	13.3	34.5	19.4
U11-449088	60.3	16	2.2	1.3	34.4	1.6	16.1	34.2	19.4
U11-468126	58.8	21	4.9	1.4	34.9	1.9	16.4	33.2	19.4
U11-494100	63.4	4	5.1	1.5	35.4	1.6	15.8	33.8	18.8
U11-612121	61.1	13	1.5	1.4	33.3	1.8	16.2	33.6	19.4
U11-614093	65.4	1	0.4	1.1	30.7	1.8	17.6	34.6	19.6
U12-611009	59.1	20	2.0	1.2	31.7	1.7	14.9	33.1	19.3

124.6 Days After Planting

Preliminary Test IIIB, 2014

Yield (bu/a)

Strain	Mean 9 Tests	Crawfordsville IA	Urbana IL	Lafayette IN	Manhattan KS
IA3023 (III)	61.6	60.1	71.0	57.4	35.2
IA3024	55.7	55.2	67.3	55.8	36.2
IA3048 (SCN)	62.4	59.5	71.0	74.1	35.7
IA4005	61.7	59.9	65.2	59.3	34.8
LD11-1249	58.6	61.2	62.1	66.2	30.0
LD11-1882	63.4	67.3	79.9	66.9	36.1
LD11-10069	64.8	61.8	72.8	56.8	37.9
LG10-3432	59.6	58.6	61.8	62.7	33.0
LG11-6212	60.0	56.3	67.0	69.5	33.4
LG12-1023	59.4	66.2	68.4	62.4	35.0
LG12-2087	56.8	58.2	69.6	56.9	34.1
LG12-2096	56.4	57.8	66.3	46.6	35.4
LG12-2177	62.5	64.7	73.8	58.3	32.1
LG12-3913	60.5	58.5	68.1	59.1	39.0
U11-343008	57.6	51.4	64.5	58.6	38.1
U11-360009	56.9	56.8	66.1	61.9	31.1
U11-377007	64.6	65.3	72.3	63.7	39.1
U11-380035	60.4	62.6	66.2	61.0	39.5
U11-410122	61.7	62.8	73.0	55.5	34.8
U11-430085	62.1	69.3	72.7	55.7	32.0
U11-441098	57.5	59.9	67.4	66.6	32.4
U11-444083	62.1	56.2	67.5	62.1	33.7
U11-448096	57.7	60.7	64.9	56.0	28.4
U11-449088	60.3	53.1	64.0	58.2	34.0
U11-468126	58.8	62.4	68.4	47.8	35.4
U11-494100	63.4	60.0	67.5	54.6	37.2
U11-612121	61.1	59.1	70.2	55.5	36.1
U11-614093	65.4	63.3	73.4	64.0	38.3
U12-611009	59.1	62.4	64.0	57.3	38.8
Location Mean		60.4	68.5	59.7	35.1
C.V. (%)		8.8	3.5	12.4	3.9
L.S.D. (5%)		10.8	4.9	13.1	2.8
Row Sp (In.)		30	30	30	4
Rows/Plot		4	4	4	30
Reps		2	2	2	2

Preliminary Test IIIB, 2014

Yield (bu/a)

Strain	Novelty MO	Lincoln NE	Wymore NE	Hoytville OH	St. Charleston OH
IA3023 (III)	71.4	83.6	58.0	64.4	53.0
IA3024	53.6	75.9	56.3	58.4	42.5
IA3048 (SCN)	63.1	74.7	55.2	62.1	66.3
IA4005	73.5	82.2	57.9	71.9	50.2
LD11-1249	53.3	86.0	59.8	51.8	57.0
LD11-1882	59.8	81.0	54.3	70.0	55.2
LD11-10069	81.1	74.3	64.2	71.7	62.3
LG10-3432	67.2	72.3	57.2	68.9	54.4
LG11-6212	67.2	73.8	53.2	61.1	58.7
LG12-1023	63.6	81.0	44.2	60.2	53.9
LG12-2087	56.1	72.0	47.6	58.5	58.6
LG12-2096	62.3	68.1	57.0	63.4	50.7
LG12-2177	71.1	77.3	56.8	68.1	59.8
LG12-3913	65.3	71.5	56.2	64.9	62.1
U11-343008	53.2	79.4	58.6	61.3	53.7
U11-360009	54.3	73.2	60.2	58.4	50.0
U11-377007	74.3	79.4	67.3	61.3	59.2
U11-380035	60.3	81.9	58.7	61.4	52.3
U11-410122	78.5	83.5	47.5	69.4	49.9
U11-430085	68.7	74.7	59.7	66.9	59.2
U11-441098	52.9	74.7	46.4	64.5	52.6
U11-444083	70.9	82.8	57.3	67.4	60.7
U11-448096	61.6	80.3	55.9	59.9	51.8
U11-449088	73.0	84.2	56.7	62.3	56.9
U11-468126	60.4	80.2	56.7	60.7	57.3
U11-494100	80.1	85.4	49.7	69.2	67.3
U11-612121	72.4	83.7	60.5	65.5	47.1
U11-614093	71.0	85.7	68.3	67.6	57.5
U12-611009	60.0	78.8	62.5	55.6	52.9
Location Mean	65.5	78.7	56.7	63.7	55.6
C.V. (%)	10.9	6.7	10.5	7.7	10.1
L.S.D. (5%)	14.6	13.0	14.6	10.0	11.7
Row Sp (In.)	30	30	30	5	15
Rows/Plot	4	4	4	8	6
Reps	2	2	2	2	2

Preliminary Test IIIB, 2014

Yield Rank

Strain	Yield Rank 9 Tests	Crawfordsville IA	Urbana IL	Lafayette IN	Ottawa KS
IA3023 (III)	12	14	9	18	15
IA3024	29	27	18	23	9
IA3048 (SCN)	7	18	8	1	12
IA4005	11	17	23	13	18
LD11-1249	22	12	28	5	28
LD11-1882	5	2	1	3	11
LD11-10069	2	11	5	21	7
LG10-3432	18	20	29	8	23
LG11-6212	17	25	19	2	22
LG12-1023	19	3	13	9	16
LG12-2087	27	22	11	20	19
LG12-2096	28	23	20	29	13
LG12-2177	6	5	2	16	25
LG12-3913	14	21	14	14	3
U11-343008	24	29	25	15	6
U11-360009	26	24	22	11	27
U11-377007	3	4	7	7	2
U11-380035	15	8	21	12	1
U11-410122	10	7	4	26	17
U11-430085	8	1	6	24	26
U11-441098	25	16	17	4	24
U11-444083	9	26	15	10	21
U11-448096	23	13	24	22	29
U11-449088	16	28	26	17	20
U11-468126	21	10	12	28	14
U11-494100	4	15	16	27	8
U11-612121	13	19	10	25	10
U11-614093	1	6	3	6	5
U12-611009	20	9	27	19	4

Preliminary Test IIIB, 2014

Yield Rank

Strain	Novelty MO	Lincoln NE	Wymore NE	Hoytville OH	St. Charleston OH
IA3023 (III)	8	6	11	14	19
IA3024	26	19	19	25	29
IA3048 (SCN)	17	20	22	17	2
IA4005	5	9	12	1	25
LD11-1249	27	1	7	27	13
LD11-1882	23	11	23	3	15
LD11-10069	1	23	3	2	3
LG10-3432	13	26	14	6	16
LG11-6212	13	24	24	20	9
LG12-1023	16	11	29	22	17
LG12-2087	24	27	26	24	10
LG12-2096	18	29	15	15	24
LG12-2177	9	18	16	7	6
LG12-3913	15	28	20	12	4
U11-343008	28	15	10	19	18
U11-360009	25	25	6	25	26
U11-377007	4	15	2	19	7
U11-380035	21	10	9	18	22
U11-410122	3	7	27	4	27
U11-430085	12	20	8	10	7
U11-441098	29	20	28	13	21
U11-444083	11	8	13	9	5
U11-448096	19	13	21	23	23
U11-449088	6	4	17	16	14
U11-468126	20	14	17	21	12
U11-494100	2	3	25	5	1
U11-612121	7	5	5	11	28
U11-614093	10	2	1	8	11
U12-611009	22	17	4	26	20
SA11-3268	19	28	3	10	24

Preliminary Test IIIB, 2014

Maturity (date)

Strain	Mean 8 Tests	Crawfordsville IA	Urbana IL	Lafayette IN	Ottawa KS
IA3023 (III)	9/25	9/22	9/25	9/28	9/8
IA3024	-3.3	1.5	-2.0	-5.5	1.5
IA3048 (SCN)	-1.0	3.0	2.0	0.0	-1.0
IA4005	7.1	4.0	8.0	3.0	15.5
LD11-1249	-3.6	0.0	-1.0	-1.5	-2.5
LD11-1882	0.8	4.5	2.0	0.5	1.0
LD11-10069	2.1	6.0	4.0	1.5	3.0
LG10-3432	7.6	10.5	9.0	10.0	4.5
LG11-6212	3.5	3.5	4.0	4.0	14.0
LG12-1023	-3.1	2.0	-1.0	-1.0	-3.0
LG12-2087	1.6	3.5	4.0	1.0	1.0
LG12-2096	0.2	4.0	4.0	-0.5	-1.0
LG12-2177	4.2	6.5	8.0	2.5	6.5
LG12-3913	3.6	6.0	4.0	1.5	16.5
U11-343008	4.4	1.5	4.0	1.5	9.0
U11-360009	2.6	5.0	3.0	3.5	5.5
U11-377007	5.9	8.0	5.0	3.5	15.0
U11-380035	-1.8	0.0	-1.0	-3.0	0.0
U11-410122	2.3	6.5	5.0	0.5	8.0
U11-430085	2.6	8.0	7.0	0.5	1.5
U11-441098	0.2	1.5	3.0	-1.0	1.0
U11-444083	-0.1	4.5	0.0	0.0	-1.0
U11-448096	-2.4	2.0	-1.0	-4.5	-0.5
U11-449088	2.2	4.5	3.0	2.5	6.0
U11-468126	4.9	7.0	5.0	3.5	9.5
U11-494100	5.1	6.5	5.0	3.5	12.5
U11-612121	1.5	2.5	4.0	-0.5	2.0
U11-614093	0.4	2.0	3.0	0.0	2.0
U12-611009	2.0	4.0	5.0	1.0	4.5
Date Planted	5/24	5/21	5/21	5/26	5/21
Days To Mature	124.6	124.0	127.0	125.0	110.0

Preliminary Test IIIB, 2014

Maturity (date)

Strain	Novelty MO	Lincoln NE	Wymore NE	Hoytville OH	St. Charleston OH
IA3023 (III)	9/26	9/29	.	10/6	9/27
IA3024	-3.5	0.0	.	-7.5	-6.0
IA3048 (SCN)	0.0	-1.0	.	-5.0	-2.0
IA4005	8.5	7.0	.	4.0	4.0
LD11-1249	-3.0	-8.0	.	-6.5	-3.0
LD11-1882	-1.0	0.0	.	-0.5	3.5
LD11-10069	-0.5	0.0	.	0.5	6.0
LG10-3432	6.0	9.0	.	5.0	10.0
LG11-6212	0.0	-3.0	.	-0.5	6.0
LG12-1023	-0.5	-6.0	.	-7.5	-2.5
LG12-2087	0.0	-2.0	.	1.0	6.0
LG12-2096	-1.0	-2.0	.	-0.5	2.5
LG12-2177	3.0	0.0	.	2.0	7.5
LG12-3913	0.0	-3.0	.	1.5	4.5
U11-343008	2.0	4.0	.	2.0	8.0
U11-360009	0.5	4.0	.	1.0	0.5
U11-377007	0.5	6.0	.	4.5	7.0
U11-380035	-0.5	-1.0	.	-3.0	-4.0
U11-410122	0.0	0.0	.	0.0	2.5
U11-430085	1.5	2.0	.	2.0	4.0
U11-441098	-1.0	-1.0	.	1.0	-0.5
U11-444083	-1.0	-1.0	.	-1.5	4.0
U11-448096	-4.0	-1.0	.	-4.0	-2.0
U11-449088	1.0	0.0	.	0.0	3.0
U11-468126	1.5	3.0	.	2.0	9.5
U11-494100	0.0	5.0	.	3.0	6.5
U11-612121	0.5	3.0	.	0.0	1.5
U11-614093	-0.5	-1.0	.	0.0	-1.0
U12-611009	-0.5	0.0	.	0.0	4.0
Date Planted	5/19	5/29	5/28	5/31	5/20
Days To Mature	130.0	123.0	.	128.0	130.0

Preliminary Test IIIB, 2014

Lodging (score)

Strain	Mean 7 Tests	Urbana IL	Lafayette IN	Ottawa KS	Novelty MO	Lincoln NE	Hoytville OH	St. Charleston OH
IA3023 (III)	1.2	1.5	1.3	1.0	1.8	1.0	1.0	1.0
IA3024	1.4	1.5	1.3	1.0	2.3	1.5	1.0	1.0
IA3048 (SCN)	1.5	1.5	1.3	1.0	3.0	2.0	1.0	1.0
IA4005	1.2	1.5	1.0	1.0	1.5	1.5	1.0	1.0
LD11-1249	1.1	1.5	1.0	1.0	1.5	1.0	1.0	1.0
LD11-1882	1.3	1.8	1.0	1.0	2.0	1.0	1.0	1.0
LD11-10069	2.0	2.0	1.3	1.0	3.8	2.5	1.0	2.5
LG10-3432	1.8	2.0	1.0	1.0	3.5	1.5	1.0	2.5
LG11-6212	1.6	2.3	1.0	1.0	2.3	2.0	1.0	1.5
LG12-1023	1.5	2.0	1.0	1.0	2.3	2.0	1.0	1.0
LG12-2087	1.9	2.0	1.0	1.0	3.8	2.5	1.0	2.0
LG12-2096	2.0	2.3	1.3	1.0	3.8	2.0	1.0	2.5
LG12-2177	1.9	2.3	1.3	1.0	3.0	2.5	1.0	2.5
LG12-3913	2.2	2.5	1.3	1.0	4.3	2.5	1.0	3.0
U11-343008	1.3	1.8	1.0	1.0	1.8	1.0	1.0	1.5
U11-360009	1.2	1.5	1.0	1.0	2.0	1.0	1.0	1.0
U11-377007	1.5	1.8	1.3	1.0	2.5	1.5	1.0	1.5
U11-380035	1.1	1.3	1.0	1.0	1.5	1.0	1.0	1.0
U11-410122	1.8	2.0	1.5	1.0	3.3	2.5	1.0	1.0
U11-430085	1.5	2.3	1.0	1.0	3.0	1.5	1.0	1.0
U11-441098	1.2	1.5	1.0	1.0	1.8	1.0	1.0	1.0
U11-444083	1.4	2.0	1.0	1.0	2.5	1.0	1.0	1.0
U11-448096	1.3	1.8	1.0	1.0	2.5	1.0	1.0	1.0
U11-449088	1.3	1.8	1.0	1.0	2.5	1.0	1.0	1.0
U11-468126	1.4	2.0	1.0	1.0	2.5	1.0	1.0	1.5
U11-494100	1.5	2.0	1.0	1.0	2.8	2.0	1.0	1.0
U11-612121	1.4	2.0	1.3	1.0	2.3	1.0	1.0	1.5
U11-614093	1.1	1.5	1.0	1.0	1.5	1.0	1.0	1.0
U12-611009	1.2	1.8	1.0	1.0	1.8	1.0	1.0	1.0

Preliminary Test IIIB, 2014

Plant Height (inches)

Strain	Mean 7 Tests	Urbana IL	Lafayette IN	Ottawa KS	Novelty MO	Lincoln NE	Hoytville OH	St. Charleston OH
IA3023 (III)	31.6	33.0	34.0	27.5	30.9	38.0	26.0	31.5
IA3024	31.5	35.0	32.5	30.5	26.4	38.5	26.0	26.5
IA3048 (SCN)	32.3	33.0	34.5	29.5	30.5	40.5	26.0	33.0
IA4005	31.4	32.0	35.5	28.0	28.2	38.5	26.0	27.5
LD11-1249	28.2	31.0	31.0	25.0	25.6	32.5	24.0	27.0
LD11-1882	32.8	35.0	32.5	30.0	30.7	41.5	27.0	30.0
LD11-10069	34.2	37.0	33.5	31.0	32.9	43.0	28.0	32.5
LG10-3432	37.0	39.0	40.0	34.0	35.6	40.5	33.0	33.5
LG11-6212	33.1	34.0	33.0	28.5	32.5	42.5	28.0	34.0
LG12-1023	32.7	35.0	36.0	30.5	31.5	37.0	26.0	30.0
LG12-2087	38.9	48.0	38.5	33.5	36.6	45.0	32.0	38.5
LG12-2096	36.3	44.0	37.0	31.0	34.1	45.5	26.0	36.0
LG12-2177	33.1	35.0	35.5	29.5	31.5	40.0	27.0	33.0
LG12-3913	39.3	44.0	40.5	36.0	38.8	43.5	33.0	40.0
U11-343008	33.0	42.0	38.0	29.5	26.2	36.5	26.0	28.5
U11-360009	31.2	38.0	33.5	28.0	27.6	36.0	24.0	30.5
U11-377007	33.1	35.0	34.5	30.5	31.1	41.5	26.0	27.0
U11-380035	29.8	33.0	34.5	27.0	26.8	33.5	24.0	26.0
U11-410122	37.2	42.0	39.5	31.0	34.3	46.5	30.0	33.5
U11-430085	35.6	38.0	39.0	34.5	32.5	42.5	27.0	32.5
U11-441098	31.3	35.0	33.0	27.5	27.6	39.5	25.0	31.0
U11-444083	36.5	40.0	37.5	34.0	35.4	43.0	29.0	32.5
U11-448096	30.1	35.0	33.5	26.5	27.2	34.5	24.0	27.0
U11-449088	34.4	41.0	36.0	27.5	33.9	42.0	26.0	33.5
U11-468126	34.9	42.0	37.0	28.5	32.9	41.0	28.0	34.0
U11-494100	35.4	39.0	37.0	31.0	33.9	42.5	29.0	34.5
U11-612121	33.3	35.0	34.0	30.5	30.3	44.0	26.0	29.5
U11-614093	30.7	33.0	32.5	25.5	29.1	37.0	27.0	26.5
U12-611009	31.7	36.0	35.0	27.5	28.9	40.0	24.0	30.5

Preliminary Test IIIB, 2014

Seed Quality (score)

Strain	Mean 8 Tests	Crawfordsville IA	Urbana IL	Lafayette IN	Ottawa KS	Novelty MO	Lincoln NE	Hoytville OH	St. Charleston OH
IA3023 (III)	1.8	2.0	1.0	2.0	3.0	2.0	2.0	1.0	1.5
IA3024	1.8	2.0	2.0	1.0	3.0	2.5	2.0	1.0	1.0
IA3048 (SCN)	1.8	2.0	2.0	1.0	3.0	2.0	2.0	1.0	1.0
IA4005	1.8	2.0	2.0	1.0	3.0	2.0	2.0	1.0	1.0
LD11-1249	2.0	2.0	2.0	2.0	3.0	3.0	2.0	1.0	1.0
LD11-1882	1.6	2.0	1.0	2.0	3.0	2.0	1.0	1.0	1.0
LD11-10069	1.6	2.0	1.0	1.0	3.0	1.5	2.0	1.0	1.0
LG10-3432	2.4	3.0	3.0	4.0	3.0	2.0	2.0	1.0	1.5
LG11-6212	1.5	2.0	1.0	1.0	2.0	2.0	2.0	1.0	1.0
LG12-1023	1.9	2.0	2.0	2.0	3.0	2.5	2.0	1.0	1.0
LG12-2087	1.5	2.0	1.0	1.0	2.0	2.0	2.0	1.0	1.0
LG12-2096	1.8	2.0	2.0	2.0	3.0	1.5	2.0	1.0	1.0
LG12-2177	1.7	2.0	2.0	1.0	3.0	1.5	2.0	1.0	1.0
LG12-3913	1.7	2.0	2.0	2.0	3.0	1.5	1.0	1.0	1.0
U11-343008	1.9	2.0	2.0	2.0	3.0	2.5	2.0	1.0	1.0
U11-360009	1.9	2.0	3.0	2.0	3.0	1.5	2.0	1.0	1.0
U11-377007	1.9	2.0	2.0	2.0	3.0	2.0	2.0	1.0	1.0
U11-380035	1.9	2.0	2.0	2.0	3.0	2.5	2.0	1.0	1.0
U11-410122	1.9	2.0	2.0	2.0	3.0	2.0	2.0	1.0	1.0
U11-430085	1.9	3.0	2.0	2.0	3.0	1.5	2.0	1.0	1.0
U11-441098	1.6	2.0	1.0	1.0	3.0	2.0	2.0	1.0	1.0
U11-444083	1.9	3.0	2.0	1.0	3.0	2.0	2.0	1.0	1.0
U11-448096	1.8	2.0	2.0	1.0	3.0	2.0	2.0	1.0	1.0
U11-449088	1.6	2.0	1.0	1.0	3.0	2.0	2.0	1.0	1.0
U11-468126	1.9	2.0	2.0	2.0	3.0	2.0	2.0	1.0	1.0
U11-494100	1.6	1.0	2.0	2.0	3.0	1.5	1.0	1.0	1.0
U11-612121	1.8	2.0	2.0	2.0	3.0	1.5	2.0	1.0	1.0
U11-614093	1.8	2.0	1.0	2.0	3.0	2.0	2.0	1.0	1.0
U12-611009	1.7	1.0	2.0	2.0	3.0	2.5	1.0	1.0	1.0

Preliminary Test IIIB, 2014

Seed Size (g/100)

Strain	Mean 9 Tests	Crawfordsville IA	Urbana IL	Lafayette IN	Ottawa KS	Novelty MO	Lincoln NE	Hoytville OH	St. Charleston OH
IA3023 (III)	17.2	15.8	17.7	15.4	15.0	19.6	18.6	18.7	17.1
IA3024	16.6	14.9	17.5	15.2	13.8	19.3	17.9	16.9	17.1
IA3048 (SCN)	16.7	16.1	17.7	16.6	14.7	16.8	17.6	17.1	17.0
IA4005	15.0	13.1	14.3	13.2	12.8	17.0	17.9	17.6	13.9
LD11-1249	20.0	21.3	21.3	20.4	15.9	20.9	21.1	18.7	20.3
LD11-1882	17.2	16.8	18.7	15.4	14.3	18.8	17.4	18.2	18.2
LD11-10069	15.7	16.0	16.2	14.9	12.0	17.4	16.6	16.9	15.9
LG10-3432	14.1	13.6	13.6	13.2	10.3	15.6	15.1	17.1	14.7
LG11-6212	15.0	14.0	15.1	14.1	12.6	17.5	15.8	15.4	15.1
LG12-1023	15.6	15.6	15.9	14.5	13.0	18.5	16.1	16.5	15.0
LG12-2087	18.5	18.5	19.4	16.5	15.5	19.6	19.1	19.1	20.2
LG12-2096	19.1	19.2	21.4	15.2	16.0	20.4	20.0	20.3	20.1
LG12-2177	16.6	15.7	17.8	14.5	14.0	18.3	17.8	17.8	16.5
LG12-3913	18.3	18.2	19.7	15.6	16.0	20.4	18.8	19.4	18.4
U11-343008	16.5	13.6	17.4	13.9	16.3	19.1	17.9	17.8	16.1
U11-360009	15.6	15.8	16.3	13.7	13.8	16.7	16.3	17.3	14.9
U11-377007	17.9	18.3	18.0	14.8	16.0	19.3	19.2	19.0	18.4
U11-380035	18.1	17.0	17.8	16.0	16.0	20.6	18.8	20.0	18.2
U11-410122	18.8	17.0	20.1	16.0	14.6	22.5	20.3	21.3	19.0
U11-430085	15.8	15.6	16.3	15.1	12.8	16.0	17.2	17.6	16.0
U11-441098	15.9	14.0	17.0	14.7	14.0	16.9	16.4	18.4	15.5
U11-444083	14.9	13.8	14.0	13.9	12.6	17.2	15.9	16.4	15.4
U11-448096	13.3	11.8	12.7	10.6	11.3	14.3	14.0	14.5	16.8
U11-449088	16.1	14.7	17.1	13.8	13.9	18.3	17.7	17.7	16.0
U11-468126	16.4	14.7	16.6	13.8	14.5	18.1	17.0	19.2	17.1
U11-494100	15.8	15.3	15.5	13.0	13.9	17.5	17.0	18.2	16.0
U11-612121	16.2	14.0	15.6	13.4	14.0	18.1	17.8	18.0	19.1
U11-614093	17.6	16.6	17.2	15.1	16.0	20.6	18.6	19.2	17.6
U12-611009	14.9	13.5	15.1	12.7	14.4	14.6	15.2	17.1	16.2

Preliminary Test IIIB, 2014

Protein (%)

Strain	Mean 6 Tests	Urbana IL	Lafayette IN	Novelty MO	Lincoln NE	Hoytville OH	St. Charleston OH
IA3023 (III)	33.6	32.4	34.1	35.1	32.9	34.2	32.9
IA3024	33.3	32.3	34.4	34.4	33.7	31.7	33.6
IA3048 (SCN)	34.7	33.9	36.1	35.8	34.3	33.5	34.7
IA4005	34.9	33.9	35.1	36.4	34.9	34.7	34.2
LD11-1249	35.1	35.4	35.9	36.6	34.2	32.9	35.8
LD11-1882	32.6	32.7	33.1	33.1	31.3	32.7	32.9
LD11-10069	34.1	33.0	34.4	35.1	34.0	33.1	35.2
LG10-3432	35.5	34.8	35.3	35.6	35.8	35.5	36.1
LG11-6212	35.6	34.6	36.1	36.3	35.8	34.7	35.9
LG12-1023	34.0	32.9	34.5	35.6	34.0	32.7	34.1
LG12-2087	34.9	34.1	35.1	35.6	34.5	34.6	35.5
LG12-2096	34.3	34.0	34.1	35.1	34.8	33.2	34.7
LG12-2177	34.0	34.0	33.8	35.2	33.7	33.7	33.7
LG12-3913	35.2	34.1	35.1	36.1	35.2	34.6	36.0
U11-343008	34.3	33.2	33.9	35.5	33.6	34.3	35.1
U11-360009	34.2	32.7	34.4	35.5	34.0	34.2	34.2
U11-377007	34.5	33.7	35.1	34.9	34.5	33.8	34.9
U11-380035	34.8	34.3	34.9	35.9	34.1	34.6	35.2
U11-410122	36.0	35.1	36.3	36.9	35.9	35.7	36.3
U11-430085	32.7	32.5	33.2	33.4	32.3	32.2	32.5
U11-441098	34.4	33.0	34.9	35.2	34.5	33.9	34.6
U11-444083	32.8	31.7	33.8	33.3	33.2	31.7	33.2
U11-448096	34.5	34.1	35.3	35.3	34.2	33.0	35.0
U11-449088	34.2	33.4	35.5	35.2	33.6	33.3	34.2
U11-468126	33.2	32.3	33.4	33.0	32.6	32.9	34.7
U11-494100	33.8	33.4	34.4	34.6	33.4	33.0	34.2
U11-612121	33.6	33.3	33.5	34.0	33.8	32.9	33.9
U11-614093	34.6	33.8	34.8	36.1	34.2	33.8	35.1
U12-611009	33.1	32.1	33.8	33.5	32.1	32.9	34.0

Preliminary Test IIIB, 2014

Oil (%)

Strain	Mean 6 Tests	Urbana IL	Lafayette IN	Novelty MO	Lincoln NE	Hoytville OH	St. Charleston OH
IA3023 (III)	19.8	20.2	19.8	19.4	19.6	19.3	20.5
IA3024	20.2	20.7	19.9	20.1	19.7	20.3	20.3
IA3048 (SCN)	19.2	19.4	18.9	19.1	19.1	19.3	19.5
IA4005	19.1	19.1	19.1	18.9	19.0	18.8	19.6
LD11-1249	19.4	19.2	19.2	19.0	19.1	20.4	19.5
LD11-1882	20.1	20.3	19.9	20.1	20.0	19.8	20.4
LD11-10069	18.8	19.5	18.8	18.8	18.5	18.6	18.5
LG10-3432	19.1	19.6	19.1	19.5	18.4	19.0	19.0
LG11-6212	17.8	18.3	17.5	17.6	17.5	18.0	18.1
LG12-1023	19.7	20.0	19.6	19.4	19.4	19.8	20.0
LG12-2087	19.3	19.7	19.2	19.3	18.9	19.2	19.5
LG12-2096	19.7	19.9	19.8	19.7	19.1	19.7	20.0
LG12-2177	20.0	19.9	20.1	19.8	20.0	19.8	20.2
LG12-3913	19.0	19.4	19.0	18.7	18.8	18.8	19.2
U11-343008	19.0	19.3	19.2	18.8	18.9	18.5	19.0
U11-360009	19.6	20.1	19.6	19.3	19.5	19.5	19.9
U11-377007	19.2	19.4	19.0	19.3	19.2	19.1	19.4
U11-380035	19.9	20.2	20.0	19.8	19.7	19.7	20.2
U11-410122	19.1	19.4	19.2	19.0	18.8	18.8	19.2
U11-430085	19.5	19.4	19.6	19.5	19.5	19.4	19.8
U11-441098	19.6	20.2	19.6	19.5	19.2	19.2	19.8
U11-444083	19.7	20.3	19.5	19.8	19.3	19.5	19.7
U11-448096	19.4	19.6	19.1	19.3	19.1	19.6	19.5
U11-449088	19.4	19.9	18.9	19.4	19.3	19.5	19.7
U11-468126	19.4	19.7	19.4	19.7	19.4	19.1	18.9
U11-494100	18.8	19.1	18.5	19.0	18.8	18.6	19.0
U11-612121	19.4	19.6	19.6	19.2	19.2	19.3	19.6
U11-614093	19.6	19.8	19.7	19.5	19.3	19.6	19.7
U12-611009	19.3	19.4	19.2	19.6	19.4	19.1	19.4

Ent.	Strain	Parentage	Seed Source	Previous Testing	Gen. Comp.	Unique Traits
1.	LD06-7620	IA3023 x LD00- 3309	Diers	4.0	F5	SCN
2.	IA4005	IA3023 x IA3025	Fehr	2.0		1% linolenic
3.	LD00-2817P (L)	Ina x Dwight	Diers	6.0	F5	SCN
4.	HM11-W193	OHS 305 x OHS 303	McHale	PTIIIA	F4	
5.	LG11-6190	LG03-3020 x LG03-3780	Nelson	1.0	F6	Genetic diversity
6.	LG11-6208	LG03-3020 x LG03-3780	Nelson	1.0	F6	Genetic diversity
7.	SA10-8471	LG04-6000 X LD04-5907	Scaboo	1.0	F5	
8.	SA10-11227	S04-8882 x R00-1194F	Scaboo	1.0	F4	SCN, Yield

Descriptive and Disease Data

Strain	Descriptive Code	Shattering Score Manhattan, KS	Green Stem Score St. Jackson, TN
LD06-7620	PTBDYBlI	1	2.0
IA4005	WTBDYBlI	2	1.7
LD00-2817P (L)	PGBDYIbI	1	2.0
HM11-W193	PGBDYIbI	2	1.7
LG11-6190	PTTDYBlI	2	2.0
LG11-6208	WTTDYBlI	2	2.0
SA10-8471	PGTDTLbfI	1	2.0
SA10-11227	WGTIYBfI	1	2.0

Uniform Test IV, 2014

Regional Summary

	Yield	Rank	Maturity	Lodging	Plant Height	Seed Quality	Seed Size	Composition	
								Protein	Oil
No. of Tests	8	8	10	10	10	10	10	6	6
Strain	bu/a	No.	Date	Score	In	Score	g/100	(%)	(%)
LD06-7620	55.2	4	9/27	1.6	29.2	2.6	14.7	35.0	18.9
IA4005	52.3	8	-2.3	1.4	27.5	2.5	14.6	35.2	19.6
LD00-2817P (L)	52.8	6	3.3	1.9	33.3	2.8	14.1	33.5	19.9
HM11-W193	52.7	7	-3.4	2.3	34.1	2.3	19.4	36.2	19.3
LG11-6190	54.5	5	-1.5	2.1	34.8	2.5	14.6	34.9	18.6
LG11-6208	58.4	1	-1.3	2.2	35.3	2.3	14.0	35.9	18.6
SA10-8471	56.4	2	2.2	1.8	34.9	2.1	13.6	33.9	19.0
SA10-11227	55.8	3	0.3	1.8	32.9	2.4	13.6	35.8	18.9

131.4 Days After Planting

Uniform Test IV, 2014

2013-2014 2-Year Mean

	Yield	Rank	Maturity	Lodging	Plant Height	Seed Quality	Seed Size	Composition	
								Protein	Oil
No. of Tests	17	17	18	19	19	19	19	10	10
Strain	bu/a	No.	Date	Score	In	Score	g/100	(%)	(%)
LD06-7620	58.3	2	9/26	1.5	31.8	2.3	14.4	34.7	19.4
IA4005	53.7	7	-1.2	1.3	29.9	2.1	14.3	35.0	19.9
LD00-2817P (L)	57.0	4	2.6	1.9	36.5	2.5	13.5	33.3	20.3
LG11-6190	58.0	3	-0.8	2.1	36.9	2.1	14.3	34.7	19.1
LG11-6208	59.7	1	-0.6	2.1	37.7	2.0	13.7	35.7	19.1
SA10-8471	55.6	5	1.8	1.9	37.1	1.9	13.3	34.5	19.2
SA10-11227	54.3	6	0.3	1.7	35.2	2.1	13.0	35.4	19.3

129.7 Days After Planting

Uniform Test IV, 2014

Yield (bu/a)

Strain	Mean 8 Tests	Brownstown IL	Urbana IL	Butlerville IN	Lafayette IN*	Manhattan KS
LD06-7620	55.2	63.3	71.1	78.0	66.9	38.8
IA4005	52.3	49.3	65.3	62.1	65.6	44.7
LD00-2817P (L)	52.8	59.6	65.0	62.5	73.6	37.6
HM11-W193	52.7	53.9	76.4	53.5	56.0	38.6
LG11-6190	54.5	52.5	71.3	63.1	59.0	46.0
LG11-6208	58.4	58.4	73.4	70.9	68.6	50.2
SA10-8471	56.4	56.1	61.8	57.3	41.3	45.3
SA10-11227	55.8	55.1	66.9	68.9	57.4	43.5
Location Mean		56.0	68.9	64.5	61.1	43.1
C.V. (%)		5.9	3.3	13.3	16.7	11.9
L.S.D. (5%)		7.9	5.3	10.9	9.5	8.6
Row Sp (In.)		30	30	30	30	30
Rows/Plot		4	4	4	4	4
Reps		2	2	3	3	3

*Data not included in mean

Yield Rank

Strain	Yield Rank 8 Tests	Brownstown IL	Urbana IL	Butlerville IN	Lafayette IN	Manhattan KS
LD06-7620	4	1	4	1	3	6
IA4005	8	8	6	6	4	4
LD00-2817P (L)	6	2	7	5	1	8
HM11-W193	7	6	1	8	7	7
LG11-6190	5	7	3	4	5	2
LG11-6208	1	3	2	2	2	1
SA10-8471	2	4	8	7	8	3
SA10-11227	3	5	5	3	6	5

Uniform Test IV, 2014

Yield (bu/a)

Strain	Ottawa KS	Novelty MO*	Portageville MO (Clay)	Portageville MO (Loam)	Jackson TN
LD06-7620	37.9	48.9	29.8	66.4	56.2
IA4005	33.9	60.1	40.8	67.4	54.9
LD00-2817P (L)	34.5	52.6	47.5	64.8	51.2
HM11-W193	37.2	74.9	42.0	67.8	52.1
LG11-6190	36.7	66.1	45.0	67.0	54.1
LG11-6208	39.1	67.8	50.7	64.3	59.8
SA10-8471	36.3	66.7	61.1	71.3	62.0
SA10-11227	35.6	48.1	52.8	68.4	55.6
Location Mean	36.4	60.7	46.2	67.2	55.7
C.V. (%)	5.2	15.1	12.5	6.2	7.8
L.S.D. (5%)	3.3	16.0	12.4	8.9	7.7
Row Sp (In.)	30	30	30	30	30
Rows/Plot	4	4	4	4	4
Reps	2	3	3	3	3

*Data not included in mean

Yield Rank

Strain	Ottawa KS	Novelty MO	Portageville MO (Clay)	Portageville MO (Loam)	Jackson TN
LD06-7620	2	7	8	6	3
IA4005	8	5	7	4	5
LD00-2817P (L)	7	6	4	7	8
HM11-W193	3	1	6	3	7
LG11-6190	4	4	5	5	6
LG11-6208	1	2	3	8	2
SA10-8471	5	3	1	1	1
SA10-11227	6	8	2	2	4

Maturity (date)

Strain	Mean 10 Tests	Brownstown IL	Urbana IL	Butlerville IN	Lafayette IN	Manhattan KS
LD06-7620	9/27	10/2	10/4	10/1	10/14	9/29
IA4005	-2.3	-7.0	-2.0	-5.7	-7.7	-0.4
LD00-2817P (L)	3.3	0.0	4.0	1.0	2.3	1.6
HM11-W193	-3.4	-5.0	0.0	-5.0	-15.7	-3.0
LG11-6190	-1.5	-5.0	-1.0	-3.3	-10.3	-1.0
LG11-6208	-1.3	-4.0	-2.0	-3.0	-7.7	-0.7
SA10-8471	2.2	-1.0	4.0	0.3	-5.0	-1.4
SA10-11227	0.3	-4.0	4.0	-3.7	-8.3	0.3
Date Planted	5/19	5/23	5/21	5/28	5/26	5/14
Days To Mature	131.4	132.0	136.0	126.0	141.0	138.0

Lodging (score)

Strain	Mean 10 Tests	Brownstown IL	Urbana IL	Butlerville IN	Lafayette IN	Manhattan KS
LD06-7620	1.6	1.0	2.0	1.7	1.0	2.0
IA4005	1.4	1.0	1.5	1.0	1.0	2.0
LD00-2817P (L)	1.9	2.3	2.5	1.7	1.0	2.0
HM11-W193	2.3	1.8	2.5	2.7	1.8	2.7
LG11-6190	2.1	1.8	3.0	2.0	1.3	2.3
LG11-6208	2.2	1.8	3.0	1.8	1.5	2.3
SA10-8471	1.8	1.5	2.5	1.3	1.5	2.0
SA10-11227	1.8	1.3	2.5	1.3	1.5	2.0

Uniform Test IV, 2014

Maturity (date)

Strain	Ottawa KS	Novelty MO	Portageville MO (Clay)	Portageville MO (Loam)	Jackson TN
LD06-7620	9/22	9/25	9/17	9/18	9/22
IA4005	1.7	3.7	1.0	-3.0	-4.0
LD00-2817P (L)	3.3	11.3	5.0	4.0	0.0
HM11-W193	1.0	5.7	0.0	-6.0	-6.0
LG11-6190	4.7	0.3	1.0	0.0	0.0
LG11-6208	3.3	1.0	0.0	0.0	0.0
SA10-8471	4.3	11.3	4.0	5.0	0.0
SA10-11227	3.0	4.3	6.0	1.0	0.0
Date Planted	5/21	5/19	5/6	5/19	5/13
Days To Mature	124.0	129.0	134.0	122.0	132.0

Lodging (score)

Strain	Ottawa KS	Novelty MO	Portageville MO (Clay)	Portageville MO (Loam)	Jackson TN
LD06-7620	1.0	1.7	2.0	2.0	1.3
IA4005	1.0	1.5	2.0	2.0	1.0
LD00-2817P (L)	1.0	1.5	2.0	3.0	2.0
HM11-W193	1.0	3.0	2.0	3.0	2.3
LG11-6190	1.0	2.5	3.0	3.0	1.3
LG11-6208	1.0	2.7	3.0	3.0	2.0
SA10-8471	1.0	1.5	2.0	3.0	2.0
SA10-11227	1.0	2.0	2.0	2.0	2.0

Uniform Test IV, 2014

Plant Height (inches)

Strain	Mean 10 Tests	Brownstown IL	Urbana IL	Butlerville IN	Lafayette IN	Manhattan KS
LD06-7620	29.2	29.0	37.0	30.3	35.0	31.3
IA4005	27.5	26.0	32.0	28.0	31.7	29.0
LD00-2817P (L)	33.3	31.0	39.0	37.0	39.0	32.7
HM11-W193	34.1	30.0	43.0	33.7	38.7	34.7
LG11-6190	34.8	32.0	43.0	33.3	40.7	32.7
LG11-6208	35.3	33.0	43.0	36.7	42.0	34.0
SA10-8471	34.9	33.0	40.0	35.0	39.0	34.0
SA10-11227	32.9	29.0	40.0	32.7	37.7	30.7

Seed Quality (score)

Strain	Mean 10 Tests	Brownstown IL	Urbana IL	Butlerville IN	Lafayette IN	Manhattan KS
LD06-7620	2.6	3.0	2.0	1.0	1.0	3.0
IA4005	2.5	2.0	2.0	1.0	1.0	3.0
LD00-2817P (L)	2.8	2.0	3.0	1.0	2.0	3.0
HM11-W193	2.3	2.0	2.0	1.0	1.0	3.0
LG11-6190	2.5	2.0	2.0	1.0	1.0	3.0
LG11-6208	2.3	1.0	2.0	1.0	2.0	3.0
SA10-8471	2.1	1.0	2.0	1.0	1.0	3.1
SA10-11227	2.4	2.0	2.0	1.0	2.0	3.0

Plant Height (inches)

Strain	Ottawa KS	Novelty MO	Portageville MO (Clay)	Portageville MO (Loam)	Jackson TN
LD06-7620	26.0	29.3	20.0	27.0	27.0
IA4005	24.7	30.2	21.0	26.0	26.0
LD00-2817P (L)	30.3	33.1	24.0	34.0	33.0
HM11-W193	32.7	36.7	24.0	37.0	31.0
LG11-6190	30.0	37.7	29.0	42.0	28.0
LG11-6208	31.3	39.1	25.0	38.0	31.0
SA10-8471	28.7	36.0	30.0	39.0	34.0
SA10-11227	29.3	29.5	29.0	36.0	35.0

Seed Quality (score)

Strain	Ottawa KS	Novelty MO	Portageville MO (Clay)	Portageville MO (Loam)	Jackson TN
LD06-7620	3.0	2.0	4.7	4.0	2.3
IA4005	4.0	2.0	4.3	3.7	1.7
LD00-2817P (L)	3.0	2.0	5.0	3.3	3.7
HM11-W193	2.0	2.5	4.7	2.7	2.0
LG11-6190	3.0	2.0	5.0	3.7	2.7
LG11-6208	2.0	2.0	4.3	3.3	2.0
SA10-8471	2.0	2.0	3.3	3.3	2.0
SA10-11227	2.0	2.0	5.0	2.7	2.3

Seed Size (g/100)

Strain	Mean 10 Tests	Brownstown IL	Urbana IL	Butlerville IN	Lafayette IN	Manhattan KS
LD06-7620	14.7	16.4	14.4	15.3	14.6	12.6
IA4005	14.6	15.2	13.3	13.8	14.5	14.1
LD00-2817P (L)	14.1	14.8	14.2	14.7	14.2	12.3
HM11-W193	19.4	20.1	20.0	19.5	17.7	17.7
LG11-6190	14.6	14.3	16.0	15.3	14.6	14.3
LG11-6208	14.0	14.4	14.2	15.6	13.7	13.2
SA10-8471	13.6	13.6	14.7	12.9	11.7	13.3
SA10-11227	13.6	13.7	13.3	13.1	12.2	13.7

Protein (%)

Strain	Mean 6 Tests	Brownstown IL	Urbana IL	Lafayette IN	Manhattan KS	Novelty MO	Jackson TN
LD06-7620	35.0	36.3	33.5	35.2	35.4	33.9	35.8
IA4005	35.2	35.2	33.9	35.1	36.5	35.2	35.2
LD00-2817P (L)	33.5	33.3	32.4	34.3	34.8	32.4	33.6
HM11-W193	36.2	37.3	34.7	36.7	35.8	36.7	35.8
LG11-6190	34.9	35.3	33.6	35.4	36.4	34.0	34.9
LG11-6208	35.9	37.4	34.7	36.7	35.5	35.5	35.6
SA10-8471	33.9	33.0	33.3	34.5	35.4	32.4	34.7
SA10-11227	35.8	35.4	34.9	36.7	36.9	34.8	36.2

Uniform Test IV, 2014

Seed Size (g/100)

Strain	Ottawa KS	Novelty MO	Portageville MO (Clay)	Portageville MO (Loam)	Jackson TN
LD06-7620	13.9	13.9	16.3	15.2	14.8
IA4005	14.9	17.3	15.4	15.0	12.9
LD00-2817P (L)	12.4	15.5	14.7	14.9	13.3
HM11-W193	17.5	23.0	20.5	19.0	18.7
LG11-6190	13.6	14.6	14.1	15.6	14.0
LG11-6208	11.8	14.8	14.5	13.9	13.6
SA10-8471	13.4	13.1	14.8	14.6	13.4
SA10-11227	12.2	15.0	14.1	15.0	13.2

Oil (%)

Strain	Mean 6 Tests	Brownstown IL	Urbana IL	Lafayette IN	Manhattan KS	Novelty MO	Jackson TN
LD06-7620	18.9	18.7	18.9	18.5	18.8	19.0	19.8
IA4005	19.6	20.3	19.3	19.2	18.7	19.2	21.0
LD00-2817P (L)	19.9	19.7	19.9	19.2	18.9	20.0	21.4
HM11-W193	19.3	19.2	19.3	18.6	19.5	18.5	20.9
LG11-6190	18.6	18.5	18.8	17.9	17.7	18.6	20.0
LG11-6208	18.6	18.2	18.5	17.9	18.8	18.4	19.7
SA10-8471	19.0	19.2	18.6	18.4	18.6	19.0	20.1
SA10-11227	18.9	19.4	18.8	17.9	18.2	18.8	20.3

Preliminary Test IV, 2014

Ent.	Strain	Parentage	Seed Source	Gen. Comp.	Unique Traits
1.	LD06-7620	IA3023 x LD00- 3309	Diers	F5	SCN
2.	IA4005	IA3023 x IA3025	Fehr	2.0	1% linolenic
3.	LD00-2817P (L)	Ina x Dwight	Diers	F5	SCN
4.	HR10-3342	LG01-4918 x H-2885	Mian	F5	
5.	JTN-4114	H2885 x LG00-8301	Arelli	F12	50% exotic
6.	JTN-4214	H2885 x LG00-6313	Arelli	F12	50% exotic
7.	K12-1464	LG04-3292 x LD00-3309	Schapaugh	F6	
8.	K12-1546	LG04-5187 x LG05-4557	Schapaugh	F6	
9.	K12-1575	reselection of LG09-5256	Schapaugh	F6	
10.	K12-1770	IA 3023 x LG04-5187	Schapaugh	F6	
11.	K12-1781	IA 3023 x LG04-5187	Schapaugh	F6	
12.	K12-2094	LG04-3292 x LG05-4550	Schapaugh	F6	
13.	K12-2236	LG04-5988 x LD00-3309	Schapaugh	F6	
14.	K12-2315	LG04-5993 x LG04-5187	Schapaugh	F6	
15.	K12-2333	LG04-5993 x LG04-5187	Schapaugh	F6	
16.	K12-2344	LG04-5993 x LG05-4321	Schapaugh	F6	
17.	LD11-3619	LG04-6000 x LD04-13265	Diers	F4	
18.	LD11-9790	LG04-6000 x Dairyland 75221	Diers	F4	
19.	LD11-11299	LG04-6000 x Syngenta 03RM893031	Diers	F4	
20.	LG10-3278	LG03-2087 x LG03-6296	Nelson	F6	genetic diversity
21.	LG11-6759	LG00-3372 x LD00-3309	Nelson	F8	genetic diversity
22.	LG11-6760	LG00-3372 x LD00-3309	Nelson	F8	genetic diversity
23.	LG12-3475	LG03-1686 x LG04-5993	Nelson	F6	genetic diversity
24.	LG12-3478	LG03-1686 x LG04-5993	Nelson	F6	genetic diversity
25.	LG12-3738	LG04-3763 x LG05-4017	Nelson	F6	genetic diversity
26.	LG12-3771	LG04-3765 x LG05-4550	Nelson	F6	genetic diversity
27.	LG12-4068	LG04-5993 x LG04-5187	Nelson	F6	genetic diversity
28.	LG12-4072	LG04-5993 x LG04-5187	Nelson	F6	genetic diversity
29.	LG12-4073	LG04-5993 x LG04-5187	Nelson	F6	genetic diversity
30.	S12-1879	S07-5049 x S09-312 F1	Shannon	F5	Diversity, SCN
31.	S12-1939	S07-5049 x S09-312 F1	Shannon	F5	Diversity, SCN
32.	S12-3318	S07-5117 x S09-309 F1	Shannon	F5	Diversity, SCN
33.	S12-3443	S07-5117 x S09-312 F1	Shannon	F5	Diversity, SCN
34.	S12-3728	S07-5117 x S09-320 F1	Shannon	F5	Diversity, SCN
35.	S12-3779	LD06-7596 x S07-5117	Shannon	F5	Diversity, SCN
36.	SA11-15334	LD04-13265 x S06-12749	Scaboo	F5	
37.	SA11-18687	S05-11482 x S07-5049	Scaboo	F5	

Preliminary Test IV, 2014

Descriptive and Disease Data

Strain	Descriptive Code	Shattering Score Manhattan, KS	Green Stem Score Jackson, TN
LD06-7620	PTBDYBlI	1	2.0
IA4005	WTTDYBlI	1	1.5
LD00-2817P (L)	PGBDYIbI	1	2.0
HR10-3342	WGBDYBfI	2	1.5
JTN-4114	WGBDYLbfI	3	2.5
JTN-4214	PGBDYIbI	1	1.5
K12-1464	PGBDYIbI	1	1.0
K12-1546	WTTDYBlI	3	2.0
K12-1575	PTBDYBlI	1	1.0
K12-1770	WT+GBDYIbI	1	1.0
K12-1781	WGBDYBfI	1	1.0
K12-2094	P+WTBDYBlI	1	1.0
K12-2236	W+PGBDYBfI	3	1.0
K12-2315	WGBDYBfI	1	2.0
K12-2333	WGBDYBfI	1	1.0
K12-2344	PGBDYLibI	2	1.0
LD11-3619	WLtTDYBlI	1	1.0
LD11-9790	PGBDYBfI	3	1.0
LD11-11299	W+PG+TBDYBlI	2	1.0
LG10-3278	PTB+TDYBlI	2	1.5
LG11-6759	PGBDYIbI	1	1.5
LG11-6760	PGBDYIbI	2	1.0
LG12-3475	WGBDYBfI	2	1.0
LG12-3478	WGBDYBfI	1	1.5
LG12-3738	WTBDYBlI	1	1.0
LG12-3771	WTTIYBlI	2	1.0
LG12-4068	WGBDYDbfI	1	1.5
LG12-4072	WGBDYDbfI	1	1.0
LG12-4073	WGBDYDbfI	1	1.5
S12-1879	WGBDYBfI	2	2.0
S12-1939	WLtTDYBlI	1	1.0
S12-3318	WTTDYBlI	1	1.0
S12-3443	PGTDYIbI	1	1.0
S12-3728	PGBDYIbI	3	1.5
S12-3779	WT+GBDYBlI	1	1.5
SA11-15334	PGTDYIbI	1	1.5
SA11-18687	PGBDYIbI	1	1.5

Preliminary Test IV, 2014

Regional Summary

	Yield	Rank	Maturity	Lodging	Plant Height	Seed Quality	Seed Size	Composition	
								Protein	Oil
No. of Tests	6	6	8	9	9	9	9	6	6
Strain	bu/a	No.	Date	Score	In	Score	g/100	(%)	(%)
LD06-7620	52.3	26	9/28	1.6	30.9	2.3	14.4	35.3	18.8
IA4005	52.0	28	-3.5	1.2	28.1	2.3	14.2	34.9	19.6
LD00-2817P (L)	52.6	25	1.9	1.8	33.9	2.8	13.7	33.4	20.0
HR10-3342	53.5	22	-5.8	1.8	31.5	2.4	16.2	34.7	19.0
JTN-4114	51.1	30	-1.5	1.9	32.8	2.6	16.2	34.2	19.9
JTN-4214	46.4	36	-0.9	1.9	35.8	2.4	16.2	34.1	19.1
K12-1464	46.6	35	-8.9	2.4	37.5	2.3	11.8	34.3	19.7
K12-1546	52.1	27	1.3	2.6	40.7	2.8	15.8	34.7	18.9
K12-1575	59.0	3	-2.4	2.1	33.2	2.1	13.7	33.8	19.9
K12-1770	53.7	21	-5.4	1.5	32.1	2.2	15.7	34.2	19.9
K12-1781	48.0	33	-4.1	1.4	33.1	2.3	15.8	34.2	19.8
K12-2094	46.1	37	-2.6	1.9	33.1	2.3	16.2	34.0	19.0
K12-2236	50.2	32	-1.6	1.8	33.4	2.1	13.4	34.5	18.2
K12-2315	53.8	20	1.4	1.8	33.4	2.4	17.7	35.0	19.5
K12-2333	57.7	5	0.7	1.5	33.2	2.1	17.3	34.6	19.2
K12-2344	52.8	24	-2.1	2.2	35.0	2.3	15.0	35.3	19.2
LD11-3619	50.8	31	-1.9	1.7	32.3	2.1	14.6	34.7	19.2
LD11-9790	54.4	16	-7.1	1.4	31.8	2.2	15.5	35.7	18.9
LD11-11299	55.0	13	-2.4	1.7	33.8	2.0	15.4	35.8	19.3
LG10-3278	57.5	6	-0.1	2.0	37.3	2.4	15.0	36.0	19.4
LG11-6759	56.3	10	-0.6	2.3	36.1	2.8	15.6	35.5	18.8
LG11-6760	59.4	1	2.1	1.7	34.4	2.3	14.8	34.8	19.1
LG12-3475	59.0	2	1.6	2.0	34.2	2.4	15.0	35.0	18.9
LG12-3478	56.7	8	2.4	2.4	35.6	2.5	15.3	35.3	18.7
LG12-3738	53.9	19	3.9	2.3	33.8	2.3	15.2	34.9	18.4
LG12-3771	53.2	23	0.2	1.6	30.4	2.2	13.2	34.1	19.4
LG12-4068	55.2	11	-0.6	1.4	34.6	2.4	17.7	35.6	18.9
LG12-4072	54.6	15	-1.1	1.7	34.5	2.3	17.0	34.5	19.0
LG12-4073	54.3	17	0.7	1.6	34.5	2.4	16.9	34.5	19.1
S12-1879	54.6	14	3.8	2.4	39.0	2.2	15.3	37.0	18.6
S12-1939	54.2	18	3.6	2.2	36.0	2.3	14.5	36.2	18.5
S12-3318	58.2	4	4.0	2.2	34.4	2.4	16.7	35.7	18.7
S12-3443	47.4	34	1.9	1.9	35.6	2.6	17.2	36.3	18.8
S12-3728	56.3	9	6.5	2.6	35.2	2.5	17.4	35.9	18.6
S12-3779	57.2	7	4.6	1.7	35.3	2.3	16.8	34.9	18.8
SA11-15334	51.2	29	1.3	1.8	33.6	2.1	14.0	34.7	19.6
SA11-18687	55.1	12	-1.0	2.6	37.0	2.2	15.0	35.0	18.6

133.3 Days After Planting

Preliminary Test IV, 2014

Yield (bu/acre)

Strain	Mean 6 Tests	Carbondale IL*	Urbana IL	Butlerville IN*	Lafayette IN*
LD06-7620	52.3	41.5	71.6	63.9	68.1
IA4005	52.0	40.7	70.1	51.1	56.8
LD00-2817P (L)	52.6	57.6	65.7	67.9	68.3
HR10-3342	53.5	55.0	75.1	74.3	49.6
JTN-4114	51.1	41.0	68.3	67.6	48.1
JTN-4214	46.4	62.5	60.4	52.1	52.3
K12-1464	46.6	33.2	65.7	49.7	52.8
K12-1546	52.1	41.1	68.6	63.0	54.8
K12-1575	59.0	38.6	76.5	68.4	61.0
K12-1770	53.7	37.3	69.1	68.8	42.9
K12-1781	48.0	31.8	66.5	66.7	43.0
K12-2094	46.1	75.7	66.8	62.9	50.4
K12-2236	50.2	45.3	61.5	65.8	51.5
K12-2315	53.8	52.0	64.5	68.2	54.6
K12-2333	57.7	40.7	71.5	71.8	49.6
K12-2344	52.8	59.9	64.0	61.7	48.4
LD11-3619	50.8	32.1	59.0	65.0	55.0
LD11-9790	54.4	36.3	69.5	66.6	63.9
LD11-11299	55.0	47.7	67.5	77.5	46.3
LG10-3278	57.5	50.7	63.7	58.1	45.7
LG11-6759	56.3	34.0	67.2	53.1	62.7
LG11-6760	59.4	44.5	62.9	63.0	65.1
LG12-3475	59.0	35.4	66.5	77.1	39.3
LG12-3478	56.7	35.9	67.8	53.3	42.7
LG12-3738	53.9	37.2	69.7	65.1	55.9
LG12-3771	53.2	41.0	67.3	67.6	55.7
LG12-4068	55.2	41.5	69.3	64.0	53.5
LG12-4072	54.6	32.0	68.5	69.4	48.8
LG12-4073	54.3	45.9	71.5	73.2	46.7
S12-1879	54.6	51.5	62.1	49.5	45.6
S12-1939	54.2	40.2	59.7	55.3	45.6
S12-3318	58.2	49.2	63.3	60.3	60.6
S12-3443	47.4	36.8	58.5	56.2	43.0
S12-3728	56.3	43.5	56.1	55.8	61.1
S12-3779	57.2	48.7	59.2	71.5	59.9
SA11-15334	51.2	44.0	57.2	65.1	52.5
SA11-18687	55.1	40.7	63.9	52.7	38.8
Location Mean		43.9	65.8	63.3	52.5
C.V. (%)		22.01	6	15.8	16.8
L.S.D. (5%)		17.98	8	16.8	11.5
Row Sp (In.)			30	30	30
Rows/Plot			4	4	4
Reps			2	2	2

*Data not included in mean.

Preliminary Test IV, 2014

Yield (bu/acre)

Strain	Manhattan KS	Ottawa KS	Portageville MO (Clay)	Novelty MO	Jackson TN
LD06-7620	52.5	36.5	41.6	61.0	50.7
IA4005	49.6	38.3	41.5	59.2	53.1
LD00-2817P (L)	47.1	34.8	57.3	53.0	57.9
HR10-3342	52.2	36.2	48.9	59.3	49.0
JTN-4114	57.6	41.7	44.1	47.6	47.2
JTN-4214	45.2	35.8	45.7	41.2	49.9
K12-1464	45.4	34.7	50.3	37.8	45.6
K12-1546	47.7	39.1	52.8	51.5	52.7
K12-1575	58.3	42.8	56.9	69.7	49.6
K12-1770	45.1	37.2	52.1	68.5	50.4
K12-1781	39.6	37.6	42.2	60.3	41.8
K12-2094	46.7	36.4	39.5	39.6	47.6
K12-2236	48.0	32.8	54.1	54.6	50.5
K12-2315	46.0	39.0	47.3	76.4	49.8
K12-2333	48.7	41.4	56.7	72.0	55.8
K12-2344	47.4	42.7	51.2	58.7	52.9
LD11-3619	51.9	35.0	49.5	54.2	54.9
LD11-9790	47.8	38.4	52.1	63.6	55.3
LD11-11299	38.9	42.4	70.3	62.1	48.9
LG10-3278	49.3	38.5	76.3	60.7	56.4
LG11-6759	50.7	38.4	66.1	56.9	58.3
LG11-6760	60.7	41.9	73.9	58.3	58.7
LG12-3475	46.6	38.4	71.4	72.3	58.8
LG12-3478	56.2	35.7	58.4	66.1	55.9
LG12-3738	41.6	38.0	53.6	65.8	54.6
LG12-3771	50.9	40.9	59.6	45.9	54.7
LG12-4068	47.1	39.9	57.2	65.2	52.5
LG12-4072	51.9	42.8	53.3	61.3	49.7
LG12-4073	47.0	38.6	60.6	58.3	49.8
S12-1879	43.5	38.2	72.2	60.4	51.4
S12-1939	49.8	38.6	64.1	58.2	54.9
S12-3318	55.4	40.5	75.1	65.1	49.7
S12-3443	48.6	35.5	51.0	37.4	53.7
S12-3728	58.5	35.6	64.5	64.9	58.4
S12-3779	52.2	33.9	73.3	62.9	61.9
SA11-15334	40.4	35.7	60.3	61.9	51.8
SA11-18687	49.7	35.9	68.6	58.3	54.5
Location Mean	49.1	38.1	57.1	58.7	52.7
C.V. (%)	4.83	5.53	11.89	13.6	7.2
L.S.D. (5%)	4.8	4.26	16.52	16.2	7.69
Row Sp (In.)	30	30	30	30	30
Rows/Plot	4	4	4	4	4
Reps	2	3	2	2	2

*Data not included in mean.

Preliminary Test IV, 2014

Yield Rank

Strain	Yield Rank 6 Tests	Carbondale IL	Urbana IL	Butlerville IN	Lafayette IN
LD06-7620	26	18	3	21	2
IA4005	28	23	6	35	10
LD00-2817P (L)	25	4	22	11	1
HR10-3342	22	5	2	3	22
JTN-4114	30	20	13	12	26
JTN-4214	36	2	31	34	19
K12-1464	35	34	21	36	17
K12-1546	27	19	11	23	14
K12-1575	3	26	1	9	7
K12-1770	21	27	10	8	34
K12-1781	33	37	20	14	32
K12-2094	37	1	18	24	21
K12-2236	32	13	30	16	20
K12-2315	20	6	23	10	15
K12-2333	5	22	5	5	23
K12-2344	24	3	24	25	25
LD11-3619	31	35	34	19	13
LD11-9790	16	30	8	15	4
LD11-11299	13	11	15	1	28
LG10-3278	6	8	26	27	29
LG11-6759	10	33	17	32	5
LG11-6760	1	14	28	22	3
LG12-3475	2	32	19	2	36
LG12-3478	8	31	14	31	35
LG12-3738	19	28	7	18	11
LG12-3771	23	21	16	13	12
LG12-4068	11	17	9	20	16
LG12-4072	15	36	12	7	24
LG12-4073	17	12	4	4	27
S12-1879	14	7	29	37	30
S12-1939	18	25	32	30	31
S12-3318	4	9	27	26	8
S12-3443	34	29	35	28	33
S12-3728	9	16	37	29	6
S12-3779	7	10	33	6	9
SA11-15334	29	15	36	17	18
SA11-18687	12	24	25	33	37

Preliminary Test IV, 2014

Yield Rank

Strain	Manhattan KS	Ottawa KS	Portageville MO (Clay)	Novelty MO	Jackson TN
LD06-7620	7	24	35	16	23
IA4005	16	19	36	21	17
LD00-2817P (L)	25	34	16	30	6
HR10-3342	8	26	30	20	32
JTN-4114	4	6	33	32	35
JTN-4214	31	28	32	34	26
K12-1464	30	35	28	36	36
K12-1546	22	11	23	31	19
K12-1575	3	1	18	4	31
K12-1770	32	23	25	5	25
K12-1781	36	22	34	19	37
K12-2094	27	25	37	35	34
K12-2236	20	37	20	28	24
K12-2315	29	12	31	1	27
K12-2333	18	7	19	3	9
K12-2344	23	3	26	22	18
LD11-3619	10	33	29	29	11
LD11-9790	21	17	24	11	10
LD11-11299	37	4	7	13	33
LG10-3278	17	15	1	17	7
LG11-6759	13	17	9	27	5
LG11-6760	1	5	3	23	3
LG12-3475	28	16	6	2	2
LG12-3478	5	29	15	6	8
LG12-3738	34	21	21	7	14
LG12-3771	12	8	14	33	13
LG12-4068	24	10	17	8	20
LG12-4072	11	2	22	15	29
LG12-4073	26	13	12	23	27
S12-1879	33	20	5	18	22
S12-1939	14	14	11	26	11
S12-3318	6	9	2	9	29
S12-3443	19	32	27	37	16
S12-3728	2	31	10	10	4
S12-3779	9	36	4	12	1
SA11-15334	35	30	13	14	21
SA11-18687	15	27	8	23	15

Preliminary Test IV, 2014

Maturity (date)

Strain	Mean 8 Tests	Urbana IL	Butlerville IN	Lafayette IN	Manhattan KS
LD06-7620	9/28	10/4	9/30	10/15	9/28
IA4005	-3.5	-1.0	-3.0	-10.0	0.5
LD00-2817P (L)	1.9	4.0	2.5	1.0	-1.5
HR10-3342	-5.8	-1.0	-2.5	-18.5	-1.5
JTN-4114	-1.5	0.0	-1.0	-11.0	0.5
JTN-4214	-0.9	0.0	0.0	-2.5	0.0
K12-1464	-8.9	-4.0	-3.5	-11.0	-2.5
K12-1546	1.3	1.0	3.0	-2.5	1.0
K12-1575	-2.4	0.0	-2.5	-12.0	1.0
K12-1770	-5.4	0.0	-1.0	-18.0	-2.0
K12-1781	-4.1	-1.0	-3.0	-8.5	0.0
K12-2094	-2.6	-1.0	-2.0	-10.5	0.0
K12-2236	-1.6	1.0	0.5	-4.0	0.5
K12-2315	1.4	0.0	2.0	-5.0	-1.0
K12-2333	0.7	0.0	2.0	-5.5	0.0
K12-2344	-2.1	0.0	0.0	-15.0	-0.5
LD11-3619	-1.9	-3.0	-1.0	-8.5	0.0
LD11-9790	-7.1	-4.0	-4.0	-12.5	-1.0
LD11-11299	-2.4	5.0	-2.0	-8.0	-1.5
LG10-3278	-0.1	4.0	3.0	-4.0	-0.5
LG11-6759	-0.6	3.0	1.0	-3.0	-1.5
LG11-6760	2.1	7.0	2.5	3.5	-1.5
LG12-3475	1.6	5.0	4.0	-5.0	-1.0
LG12-3478	2.4	7.0	4.5	-0.5	0.5
LG12-3738	3.9	7.0	6.5	1.5	0.5
LG12-3771	0.2	2.0	-1.0	-5.5	1.0
LG12-4068	-0.6	0.0	0.0	-7.5	0.0
LG12-4072	-1.1	1.0	0.5	-10.0	0.0
LG12-4073	0.7	0.0	2.0	-9.5	-1.0
S12-1879	3.8	6.0	3.5	3.0	-0.6
S12-1939	3.6	6.0	2.5	1.0	0.5
S12-3318	4.0	8.0	4.5	2.0	1.5
S12-3443	1.9	10.0	2.5	2.5	-1.5
S12-3728	6.5	8.0	8.0	8.5	-0.5
S12-3779	4.6	6.0	5.5	5.0	1.0
SA11-15334	1.3	-1.0	-0.5	-5.0	1.0
SA11-18687	-1.0	2.0	2.0	-9.0	-1.5
Date Planted	5/18	5/21	5/28	5/26	5/14
Days To Mature	133.3	136.0	125.0	142.0	137.0

Preliminary Test IV, 2014

Maturity (date)

Strain	Ottawa KS	Portageville MO (Clay)	Novelty MO	Jackson TN
LD06-7620	9/22	9/21	9/29	9/22
IA4005	-1.5	-3.0	0.5	-8.0
LD00-2817P (L)	1.5	1.0	6.5	2.0
HR10-3342	-7.5	-2.0	-4.5	-4.0
JTN-4114	3.0	0.0	-4.0	2.0
JTN-4214	-2.5	1.0	-1.5	-1.0
K12-1464	-17.0	-7.0	-8.5	-13.0
K12-1546	7.0	2.0	-3.5	2.0
K12-1575	6.0	1.0	-2.0	-8.0
K12-1770	-2.0	-1.0	-0.5	-13.0
K12-1781	2.0	-4.0	-2.0	-13.0
K12-2094	2.5	0.0	-2.5	-6.0
K12-2236	-3.5	0.0	-3.5	-1.0
K12-2315	6.5	1.0	6.5	0.0
K12-2333	6.0	1.0	4.5	-3.0
K12-2344	2.0	0.0	2.5	-4.0
LD11-3619	2.0	0.0	0.5	-6.0
LD11-9790	-11.0	-5.0	-3.0	-13.0
LD11-11299	1.0	0.0	-0.5	-6.0
LG10-3278	0.0	1.0	0.0	0.0
LG11-6759	2.5	0.0	0.0	-3.0
LG11-6760	4.0	3.0	4.0	-1.0
LG12-3475	6.0	1.0	7.5	-1.0
LG12-3478	3.5	1.0	7.5	0.0
LG12-3738	4.5	4.0	8.0	2.0
LG12-3771	9.5	4.0	-3.5	-3.0
LG12-4068	9.0	0.0	0.0	-6.0
LG12-4072	5.0	0.0	1.0	-4.0
LG12-4073	7.5	1.0	6.0	-1.0
S12-1879	6.0	5.0	10.0	0.0
S12-1939	7.0	5.0	9.0	0.0
S12-3318	7.5	5.0	7.5	0.0
S12-3443	4.5	1.0	2.5	2.0
S12-3728	7.0	5.0	10.5	7.0
S12-3779	5.0	5.0	7.5	3.0
SA11-15334	5.5	2.0	6.0	0.0
SA11-18687	0.0	2.0	-0.5	0.0
Date Planted	5/21	5/6	5/20	5/13
Days To Mature	124.0	138.0	132.0	132.0

Preliminary Test IV, 2014

Lodging (score)

Strain	Mean 9 Tests	Carbondale IL	Urbana IL	Butlerville IN	Lafayette IN
LD06-7620	1.6	2.0	2.0	1.0	1.0
IA4005	1.2	2.0	1.5	1.0	1.0
LD00-2817P (L)	1.8	3.0	2.5	1.3	1.0
HR10-3342	1.8	3.0	2.8	1.5	1.5
JTN-4114	1.9	2.0	2.8	1.8	2.0
JTN-4214	1.9	4.0	2.5	1.8	1.0
K12-1464	2.4	2.0	3.0	2.8	2.5
K12-1546	2.6	3.0	3.0	2.0	2.0
K12-1575	2.1	3.0	2.5	1.8	1.5
K12-1770	1.5	1.0	2.0	1.3	1.5
K12-1781	1.4	1.0	2.3	1.3	1.3
K12-2094	1.9	4.0	2.0	1.8	1.8
K12-2236	1.8	3.0	2.3	1.5	1.3
K12-2315	1.8	3.0	2.3	1.5	1.0
K12-2333	1.5	2.0	1.8	1.3	1.0
K12-2344	2.2	3.0	2.8	1.8	1.5
LD11-3619	1.7	5.0	1.5	1.0	1.0
LD11-9790	1.4	4.0	1.5	1.0	1.0
LD11-11299	1.7	3.0	2.0	1.5	1.3
LG10-3278	2.0	2.0	2.5	1.5	1.3
LG11-6759	2.3	3.0	2.8	2.3	1.5
LG11-6760	1.7	2.0	2.8	1.3	1.0
LG12-3475	2.0	2.0	2.5	1.8	1.0
LG12-3478	2.4	3.0	3.0	2.5	2.5
LG12-3738	2.3	3.0	3.0	1.3	1.8
LG12-3771	1.6	2.0	2.0	2.0	1.0
LG12-4068	1.4	1.0	1.8	1.5	1.0
LG12-4072	1.7	4.0	2.0	1.5	1.0
LG12-4073	1.6	3.0	2.0	1.0	1.0
S12-1879	2.4	2.0	3.0	2.0	2.0
S12-1939	2.2	3.0	2.5	1.5	1.3
S12-3318	2.2	3.0	3.0	1.8	1.8
S12-3443	1.9	2.0	3.3	1.5	1.5
S12-3728	2.6	3.0	3.5	3.0	2.0
S12-3779	1.7	1.0	3.0	1.3	1.0
SA11-15334	1.8	3.0	1.8	1.8	1.5
SA11-18687	2.6	2.0	3.0	2.5	3.0

Preliminary Test IV, 2014

Lodging (score)

Strain	Manhattan KS	Ottawa KS	Portageville MO (Clay)	Novelty MO	Jackson TN
LD06-7620	2.0	1.0	2.0	1.5	1.5
IA4005	1.0	1.0	1.0	1.5	1.0
LD00-2817P (L)	1.5	1.0	2.0	1.5	2.0
HR10-3342	2.0	1.0	1.0	1.5	1.5
JTN-4114	2.0	1.0	2.0	1.8	1.5
JTN-4214	1.0	1.0	2.0	2.0	2.0
K12-1464	2.0	1.0	2.0	3.5	3.0
K12-1546	2.5	1.5	3.0	2.8	3.5
K12-1575	2.0	1.0	3.0	2.3	2.0
K12-1770	1.5	1.0	2.0	1.5	1.5
K12-1781	2.0	1.0	1.0	1.5	1.0
K12-2094	1.5	1.0	2.0	1.8	1.5
K12-2236	2.0	1.0	2.0	2.0	1.0
K12-2315	2.0	1.0	2.0	2.3	1.0
K12-2333	2.0	1.0	2.0	1.5	1.0
K12-2344	2.0	1.0	3.0	2.0	3.0
LD11-3619	1.0	1.0	2.0	1.5	1.0
LD11-9790	1.0	1.0	1.0	1.5	1.0
LD11-11299	1.5	1.0	2.0	2.3	1.0
LG10-3278	2.0	1.0	2.0	2.8	3.0
LG11-6759	2.0	1.0	3.0	2.3	3.0
LG11-6760	1.5	1.0	3.0	2.0	1.0
LG12-3475	2.0	1.0	2.0	2.5	3.0
LG12-3478	2.0	1.0	2.0	2.5	3.5
LG12-3738	2.0	1.5	3.0	2.5	3.0
LG12-3771	1.5	1.0	2.0	1.5	1.0
LG12-4068	1.5	1.0	2.0	1.5	1.0
LG12-4072	1.5	1.0	2.0	1.5	1.0
LG12-4073	1.5	1.0	2.0	1.5	1.0
S12-1879	3.0	1.5	2.0	3.0	3.0
S12-1939	3.0	1.0	2.0	2.3	3.5
S12-3318	2.0	1.0	2.0	2.3	3.0
S12-3443	2.0	1.0	2.0	2.0	1.5
S12-3728	2.0	1.5	2.0	3.0	3.5
S12-3779	2.0	1.0	2.0	1.8	2.0
SA11-15334	2.0	1.0	2.0	1.8	1.5
SA11-18687	2.0	1.0	3.0	3.8	3.0

Preliminary Test IV, 2014

Planting Height (inches)

Strain	Mean 9 Tests	Carbondale IL	Urbana IL	Butlerville IN	Lafayette IN
LD06-7620	30.9	36.0	37.0	30.5	38.5
IA4005	28.1	35.0	32.0	26.0	32.0
LD00-2817P (L)	33.9	36.0	38.0	33.0	39.5
HR10-3342	31.5	39.0	37.0	33.0	36.0
JTN-4114	32.8	34.0	37.0	32.0	37.5
JTN-4214	35.8	42.0	41.0	35.5	41.5
K12-1464	37.5	35.0	42.0	38.5	49.0
K12-1546	40.7	36.0	46.0	41.0	48.5
K12-1575	33.2	35.0	37.0	29.5	35.5
K12-1770	32.1	34.0	37.0	31.0	37.5
K12-1781	33.1	33.0	38.0	32.5	37.5
K12-2094	33.1	41.0	37.0	29.5	36.5
K12-2236	33.4	35.0	35.0	32.5	39.5
K12-2315	33.4	37.0	40.0	35.0	38.5
K12-2333	33.2	32.0	40.0	33.5	39.0
K12-2344	35.0	39.0	37.0	35.0	38.5
LD11-3619	32.3	45.0	35.0	31.0	37.5
LD11-9790	31.8	41.0	36.0	32.5	36.5
LD11-11299	33.8	36.0	38.0	35.5	37.5
LG10-3278	37.3	32.0	39.0	41.0	42.0
LG11-6759	36.1	35.0	42.0	37.0	41.0
LG11-6760	34.4	32.0	36.0	33.5	41.0
LG12-3475	34.2	33.0	32.0	34.0	38.0
LG12-3478	35.6	33.0	40.0	36.0	38.0
LG12-3738	33.8	34.0	36.0	35.5	38.0
LG12-3771	30.4	33.0	36.0	29.0	35.5
LG12-4068	34.6	31.0	42.0	37.0	43.0
LG12-4072	34.5	39.0	43.0	37.0	38.0
LG12-4073	34.5	37.0	43.0	35.0	40.0
S12-1879	39.0	35.0	46.0	42.0	45.0
S12-1939	36.0	34.0	35.0	37.5	40.5
S12-3318	34.4	32.0	38.0	33.5	39.5
S12-3443	35.6	35.0	35.0	38.5	42.0
S12-3728	35.2	37.0	32.0	40.0	41.0
S12-3779	35.3	31.0	43.0	38.0	40.0
SA11-15334	33.6	34.0	39.0	31.5	37.0
SA11-18687	37.0	32.0	44.0	37.5	37.5

Preliminary Test IV, 2014

Planting Height (inches)

Strain	Manhattan KS	Ottawa KS	Portageville MO (Clay)	Novelty MO	Jackson TN
LD06-7620	31.0	27.0	22.0	29.7	26.0
IA4005	30.5	25.0	20.0	27.0	25.0
LD00-2817P (L)	35.5	31.0	27.0	32.5	33.0
HR10-3342	31.5	28.0	22.0	28.8	28.0
JTN-4114	36.5	30.5	24.0	31.3	32.0
JTN-4214	35.5	35.5	26.0	32.5	33.0
K12-1464	39.0	38.5	29.0	34.7	32.0
K12-1546	45.0	38.0	33.0	42.9	36.0
K12-1575	39.0	32.5	27.0	34.7	29.0
K12-1770	32.5	29.0	26.0	32.3	30.0
K12-1781	34.0	31.5	25.0	34.3	32.0
K12-2094	34.5	30.5	28.0	33.1	28.0
K12-2236	36.0	30.5	30.0	33.7	28.0
K12-2315	33.5	31.0	24.0	33.7	28.0
K12-2333	35.0	31.0	26.0	33.1	29.0
K12-2344	32.5	35.5	28.0	35.5	34.0
LD11-3619	31.5	27.0	24.0	30.5	29.0
LD11-9790	30.0	29.5	25.0	30.5	25.0
LD11-11299	31.5	33.5	27.0	34.5	31.0
LG10-3278	38.0	35.5	34.0	40.2	34.0
LG11-6759	35.0	32.5	32.0	37.6	33.0
LG11-6760	38.0	34.0	31.0	33.7	30.0
LG12-3475	34.0	34.0	32.0	38.4	32.0
LG12-3478	40.0	33.0	32.0	35.7	33.0
LG12-3738	33.5	34.5	30.0	35.9	27.0
LG12-3771	32.0	28.5	26.0	28.0	26.0
LG12-4068	34.0	34.0	26.0	32.7	32.0
LG12-4072	32.0	32.0	25.0	36.2	28.0
LG12-4073	35.0	29.5	27.0	32.9	31.0
S12-1879	36.0	34.0	35.0	41.0	37.0
S12-1939	39.0	31.0	34.0	39.4	34.0
S12-3318	36.0	34.0	30.0	36.2	30.0
S12-3443	36.5	33.5	31.0	37.2	32.0
S12-3728	35.5	34.0	28.0	36.0	33.0
S12-3779	37.0	30.0	32.0	33.5	33.0
SA11-15334	33.5	33.5	31.0	33.3	30.0
SA11-18687	38.5	35.5	33.0	39.4	36.0

Preliminary Test IV, 2014

Seed Quality (score)

Strain	Mean 9 Tests	Carbondale IL	Urbana IL	Butlerville IN	Lafayette IN
LD06-7620	2.3	3.0	2.0	1.0	1.0
IA4005	2.3	3.0	1.0	1.0	2.0
LD00-2817P (L)	2.8	3.0	2.0	1.0	2.0
HR10-3342	2.4	3.0	2.0	1.0	2.0
JTN-4114	2.6	4.0	2.0	1.0	1.0
JTN-4214	2.4	3.0	1.0	1.0	2.0
K12-1464	2.3	3.0	2.0	1.0	1.0
K12-1546	2.8	3.0	2.0	1.0	2.0
K12-1575	2.1	4.0	1.0	1.0	1.0
K12-1770	2.2	3.0	1.0	1.0	2.0
K12-1781	2.3	3.0	2.0	1.0	1.0
K12-2094	2.3	3.0	2.0	1.0	2.0
K12-2236	2.1	2.0	1.0	1.0	2.0
K12-2315	2.4	3.0	2.0	1.0	1.0
K12-2333	2.1	3.0	2.0	1.0	1.0
K12-2344	2.3	3.0	2.0	1.0	1.0
LD11-3619	2.1	4.0	1.0	1.0	1.0
LD11-9790	2.2	3.0	2.0	1.0	1.0
LD11-11299	2.0	3.0	2.0	1.0	2.0
LG10-3278	2.4	3.0	2.0	1.0	2.0
LG11-6759	2.8	3.0	2.0	1.0	2.0
LG11-6760	2.3	2.0	2.0	1.0	1.0
LG12-3475	2.4	3.0	1.0	1.0	2.0
LG12-3478	2.5	4.0	2.0	1.0	2.0
LG12-3738	2.3	3.0	2.0	1.0	2.0
LG12-3771	2.2	3.0	2.0	1.0	1.0
LG12-4068	2.4	3.0	1.0	1.5	2.0
LG12-4072	2.3	3.0	2.0	1.0	1.0
LG12-4073	2.4	2.0	1.0	1.0	2.0
S12-1879	2.2	2.0	2.0	1.0	1.0
S12-1939	2.3	3.0	2.0	1.0	1.0
S12-3318	2.4	2.0	2.0	1.0	2.0
S12-3443	2.6	3.0	2.0	1.0	2.0
S12-3728	2.5	3.0	2.0	1.0	2.0
S12-3779	2.3	3.0	2.0	1.5	1.0
SA11-15334	2.1	2.0	1.0	1.0	1.0
SA11-18687	2.2	3.0	2.0	1.0	1.0

Preliminary Test IV, 2014

Seed Quality (score)

Strain	Manhattan KS	Ottawa KS	Portageville MO (Clay)	Novelty MO	Jackson TN
LD06-7620	3.0	2.0	4.0	2.0	2.5
IA4005	3.0	3.0	4.0	2.0	2.0
LD00-2817P (L)	3.0	3.0	5.0	2.0	4.0
HR10-3342	3.0	2.0	4.5	2.0	2.5
JTN-4114	3.0	2.0	5.0	2.0	3.5
JTN-4214	3.0	2.0	4.5	2.0	3.0
K12-1464	3.0	3.0	3.5	2.0	2.0
K12-1546	4.0	3.0	4.5	2.5	3.0
K12-1575	3.0	2.0	4.0	1.5	1.5
K12-1770	2.0	3.0	4.5	1.5	2.0
K12-1781	3.0	3.0	3.5	2.0	2.0
K12-2094	3.0	2.0	4.5	1.5	2.0
K12-2236	3.0	2.0	4.5	2.0	1.5
K12-2315	3.0	4.0	4.0	1.5	2.5
K12-2333	3.0	2.0	4.0	1.5	1.5
K12-2344	3.0	2.0	4.5	2.0	2.0
LD11-3619	3.0	2.0	3.5	1.5	2.0
LD11-9790	3.0	2.0	4.0	2.0	1.5
LD11-11299	3.0	1.0	3.0	1.5	1.5
LG10-3278	3.0	3.0	3.5	2.5	2.0
LG11-6759	4.0	3.0	5.0	2.5	2.5
LG11-6760	3.0	3.0	3.5	2.5	2.5
LG12-3475	3.0	3.0	3.5	2.0	3.0
LG12-3478	3.0	3.0	4.0	1.5	2.0
LG12-3738	3.0	3.0	4.0	2.0	1.0
LG12-3771	3.0	2.0	4.5	2.0	1.5
LG12-4068	3.0	4.0	3.5	1.5	2.0
LG12-4072	3.0	3.0	3.5	2.0	2.0
LG12-4073	3.0	4.0	4.0	2.0	2.5
S12-1879	3.0	2.0	4.0	2.0	2.5
S12-1939	3.0	3.0	3.5	2.0	2.5
S12-3318	3.0	3.0	4.5	2.0	2.5
S12-3443	3.0	3.0	4.5	2.0	3.0
S12-3728	3.0	3.0	4.5	2.0	2.0
S12-3779	3.0	2.0	4.0	1.5	2.5
SA11-15334	4.0	2.0	3.5	1.5	3.0
SA11-18687	3.0	2.0	4.0	1.5	2.0

Preliminary Test IV, 2014

Seed Size (g/100)

Strain	Mean 9 Tests	Carbondale IL	Urbana	Butlerville IN	Lafayette IN
LD06-7620	14.4	13.2	14.5	14.6	14.4
IA4005	14.2	13.9	14.6	14.6	12.1
LD00-2817P (L)	13.7	13.7	14.6	13.9	13.3
HR10-3342	16.2	15.8	17.8	17.8	15.6
JTN-4114	16.2	16.4	18.3	17.1	15.6
JTN-4214	16.2	14.3	16.5	16.6	15.2
K12-1464	11.8	11.2	11.5	12.0	11.0
K12-1546	15.8	13.9	16.7	16.6	14.6
K12-1575	13.7	11.9	14.6	13.7	12.2
K12-1770	15.7	14.0	17.7	15.8	12.7
K12-1781	15.8	15.1	16.5	15.8	13.2
K12-2094	16.2	16.4	17.5	16.8	13.5
K12-2236	13.4	11.8	13.5	13.5	12.2
K12-2315	17.7	16.1	18.7	17.2	14.6
K12-2333	17.3	15.9	18.8	17.2	14.3
K12-2344	15.0	14.6	15.3	15.3	13.1
LD11-3619	14.6	13.8	14.0	15.2	13.8
LD11-9790	15.5	16.1	17.3	15.9	12.7
LD11-11299	15.4	15.0	16.2	15.6	12.5
LG10-3278	15.0	14.4	15.4	16.0	13.8
LG11-6759	15.6	16.2	16.4	16.2	15.6
LG11-6760	14.8	13.8	15.6	14.9	15.6
LG12-3475	15.0	14.2	15.4	16.0	11.9
LG12-3478	15.3	15.1	15.7	16.6	12.3
LG12-3738	15.2	13.5	15.5	15.2	14.1
LG12-3771	13.2	13.2	13.5	14.0	10.9
LG12-4068	17.7	16.7	17.8	18.2	14.3
LG12-4072	17.0	15.9	18.1	18.0	13.8
LG12-4073	16.9	15.7	17.4	17.1	14.9
S12-1879	15.3	14.6	15.2	14.8	14.0
S12-1939	14.5	13.5	14.8	13.6	12.8
S12-3318	16.7	15.7	17.1	16.6	15.5
S12-3443	17.2	16.2	17.1	17.1	14.4
S12-3728	17.4	17.2	16.7	18.6	16.1
S12-3779	16.8	16.0	17.0	17.2	15.6
SA11-15334	14.0	14.3	13.5	13.6	12.2
SA11-18687	15.0	15.7	13.9	14.0	12.4

Preliminary Test IV, 2014

Seed Size (g/100)

Strain	Manhattan KS	Ottawa KS	Portageville MO (Clay)	Novelty MO	Jackson TN
LD06-7620	13.3	13.5	17.3	14.7	14.3
IA4005	13.5	13.6	15.8	15.6	13.9
LD00-2817P (L)	12.7	12.8	15.1	14.0	13.6
HR10-3342	13.6	13.4	17.3	18.7	15.8
JTN-4114	16.0	14.3	17.0	15.4	15.9
JTN-4214	17.1	15.7	18.3	15.8	16.1
K12-1464	12.4	11.0	13.2	11.7	11.8
K12-1546	14.0	16.1	17.1	18.8	14.4
K12-1575	14.3	13.0	16.0	15.0	12.9
K12-1770	15.4	15.3	17.8	17.8	15.0
K12-1781	14.8	15.4	18.8	16.8	15.7
K12-2094	15.6	13.4	19.3	17.7	15.8
K12-2236	14.0	12.3	16.0	14.0	12.9
K12-2315	17.5	15.7	21.8	20.1	18.0
K12-2333	15.9	16.4	20.7	19.7	16.9
K12-2344	14.1	14.0	17.8	16.3	14.5
LD11-3619	13.7	13.3	16.9	15.9	14.4
LD11-9790	15.2	12.4	17.3	18.0	14.4
LD11-11299	14.9	14.8	18.7	16.6	14.0
LG10-3278	14.0	13.8	16.5	16.6	14.8
LG11-6759	14.0	13.3	17.0	16.8	15.3
LG11-6760	14.3	12.9	16.3	15.0	14.4
LG12-3475	15.8	13.1	16.2	17.5	14.5
LG12-3478	15.1	12.8	16.8	17.1	15.9
LG12-3738	14.7	15.2	16.7	17.7	14.2
LG12-3771	12.7	12.9	15.7	12.7	13.4
LG12-4068	16.3	17.9	21.3	19.1	17.5
LG12-4072	15.2	16.2	19.9	18.8	16.7
LG12-4073	16.7	17.8	20.2	16.0	16.1
S12-1879	15.7	14.7	15.6	17.4	15.9
S12-1939	15.2	15.1	15.5	16.0	14.2
S12-3318	18.3	15.6	19.0	18.0	14.2
S12-3443	18.0	17.8	18.8	17.5	17.5
S12-3728	17.7	15.8	20.1	18.3	15.8
S12-3779	16.7	14.5	19.6	18.1	16.3
SA11-15334	12.5	13.7	16.2	14.8	14.9
SA11-18687	16.5	14.1	16.7	17.3	14.3

Preliminary Test IV, 2014

Protein (%)

Strain	Mean 6 Tests	Urbana IL	Lafayette IN	Manhattan KS	Portageville MO (Clay)	Novelty MO	Jackson TN
LD06-7620	35.3	33.5	35.2	36.3	37.4	34.4	34.9
IA4005	34.9	34.0	34.8	36.7	35.0	34.9	34.4
LD00-2817P (L)	33.4	32.0	33.8	35.4	34.3	31.0	33.8
HR10-3342	34.7	34.3	34.8	35.1	35.4	34.0	34.5
JTN-4114	34.2	33.6	34.7	35.5	34.0	33.1	34.3
JTN-4214	34.1	32.8	34.5	36.0	35.1	31.4	34.7
K12-1464	34.3	32.1	34.6	36.5	35.1	34.0	33.6
K12-1546	34.7	33.5	34.5	36.8	35.3	33.5	34.5
K12-1575	33.8	32.8	33.7	34.9	35.6	33.1	32.7
K12-1770	34.2	32.8	33.1	35.8	35.9	33.8	33.5
K12-1781	34.2	32.1	33.0	36.0	36.1	33.1	34.7
K12-2094	34.0	33.2	33.9	34.6	35.9	32.2	34.5
K12-2236	34.5	33.4	33.7	36.7	36.1	33.4	33.8
K12-2315	35.0	34.1	35.2	36.6	35.9	33.2	35.2
K12-2333	34.6	33.8	34.0	36.2	35.4	33.7	34.7
K12-2344	35.3	34.0	35.1	37.9	36.4	33.7	34.8
LD11-3619	34.7	32.8	35.1	36.4	36.3	34.0	33.9
LD11-9790	35.7	34.5	36.0	37.4	35.8	35.6	34.9
LD11-11299	35.8	34.5	35.5	38.5	36.9	35.2	34.4
LG10-3278	36.0	35.1	35.7	37.9	37.2	34.6	35.5
LG11-6759	35.5	33.8	35.5	38.9	35.7	33.9	34.9
LG11-6760	34.8	34.1	35.1	36.4	35.5	34.1	33.9
LG12-3475	35.0	33.3	33.9	36.3	37.0	34.5	35.3
LG12-3478	35.3	33.9	35.1	36.8	36.2	34.0	35.9
LG12-3738	34.9	33.2	34.7	36.8	36.1	34.0	34.4
LG12-3771	34.1	32.8	34.3	36.2	35.5	32.7	33.2
LG12-4068	35.6	33.9	35.6	37.4	36.4	34.1	36.3
LG12-4072	34.5	33.8	33.7	36.8	35.2	32.8	34.5
LG12-4073	34.5	34.0	34.2	36.5	35.6	32.5	34.1
S12-1879	37.0	35.4	36.7	37.9	38.7	36.1	37.3
S12-1939	36.2	34.4	35.4	38.2	37.7	35.2	36.6
S12-3318	35.7	34.6	35.4	37.7	37.2	34.9	34.3
S12-3443	36.3	36.0	35.9	37.8	37.0	34.6	36.6
S12-3728	35.9	34.5	36.0	37.9	37.3	34.9	35.0
S12-3779	34.9	34.6	34.1	35.7	36.3	33.6	35.2
SA11-15334	34.7	32.6	34.8	36.7	35.7	33.7	34.5
SA11-18687	35.0	33.3	34.1	37.4	35.8	34.2	35.2

Preliminary Test IV, 2014

Oil (%)

Strain	Mean 6 Tests	Urbana IL	Lafayette IN	Manhattan KS	Portageville MO (Clay)	Novelty MO	Jackson TN
LD06-7620	18.8	18.9	18.6	17.9	18.8	19.0	19.7
IA4005	19.6	19.3	19.0	18.5	20.5	19.4	21.1
LD00-2817P (L)	20.0	19.9	19.3	19.0	20.2	20.6	21.2
HR10-3342	19.0	18.6	18.7	18.2	19.5	18.6	20.2
JTN-4114	19.9	19.6	19.1	19.2	20.1	19.7	21.7
JTN-4214	19.1	18.9	18.2	18.3	19.5	19.6	20.3
K12-1464	19.7	19.7	18.7	19.1	20.1	19.4	21.3
K12-1546	18.9	18.9	18.2	18.0	19.4	19.1	19.6
K12-1575	19.9	19.8	19.3	19.4	20.1	19.3	21.3
K12-1770	19.9	19.7	19.9	19.1	19.8	19.5	21.2
K12-1781	19.8	19.8	19.6	19.4	19.5	19.8	20.7
K12-2094	19.0	19.2	18.1	18.7	19.2	19.1	19.7
K12-2236	18.2	18.5	18.0	17.7	18.0	18.2	19.1
K12-2315	19.5	19.1	18.3	18.8	20.2	19.3	21.0
K12-2333	19.2	19.0	18.6	18.6	20.1	19.1	20.0
K12-2344	19.2	19.0	18.4	18.1	19.8	18.9	20.8
LD11-3619	19.2	18.9	18.4	18.5	19.4	19.1	20.6
LD11-9790	18.9	18.8	17.9	18.6	19.6	18.5	20.0
LD11-11299	19.3	19.2	18.6	18.2	19.5	19.2	21.0
LG10-3278	19.4	19.5	18.8	18.6	19.5	19.6	20.4
LG11-6759	18.8	19.2	18.3	17.3	19.4	18.8	20.0
LG11-6760	19.1	19.0	18.6	18.3	19.3	18.9	20.5
LG12-3475	18.9	19.1	18.2	18.2	19.1	18.8	20.2
LG12-3478	18.7	19.2	17.8	17.8	18.6	19.3	19.5
LG12-3738	18.4	18.8	17.7	17.6	18.5	18.6	19.1
LG12-3771	19.4	19.5	18.9	18.3	19.0	19.7	21.0
LG12-4068	18.9	18.7	18.0	18.0	19.6	18.9	20.3
LG12-4072	19.0	18.7	18.5	17.7	19.8	18.9	20.1
LG12-4073	19.1	18.8	18.4	18.1	19.5	19.2	20.3
S12-1879	18.6	19.0	18.2	18.5	17.7	18.8	19.5
S12-1939	18.5	19.0	18.5	17.7	18.1	18.6	19.2
S12-3318	18.7	18.7	18.6	17.7	18.6	18.7	20.1
S12-3443	18.8	18.7	18.0	18.0	19.1	18.9	19.7
S12-3728	18.6	18.6	17.9	18.1	18.5	18.8	19.8
S12-3779	18.8	18.7	18.3	18.5	18.6	18.9	19.6
SA11-15334	19.6	19.6	18.7	19.1	20.2	19.3	21.0
SA11-18687	18.6	18.4	17.9	17.8	19.0	18.6	19.6

Uniform Test 0 Roundup-Ready, 2014

Ent.	Strain	Parentage	Seed Source	Previous Testing	Gen. Comp.	Unique Traits
1.	AG0532	na	Monsanto	2.0		
2.	AG0231 (E)	na	Monsanto	2.0		
3.	AG0832	new	Monsanto	new		
4.	AG1230	na	Monsanto	2.0		RR
5.	M06R-614008	SDX00R-026-42 x N34505R	Orf	2.0	F5	RR
6.	M09-876012	MN1701CN x MN1410BC2R2F2-4	Orf	new	F5	R2CN
7.	M09-876016	MN1701CN x MN1410BC2R2F2-4	Orf	new	F5	R2CN
8.	M09-876048	MN1701CN x MN1410BC2R2F2-4	Orf	new	F5	R2CN
9.	M09-878011	MN1410 x MN1410BC2R2F2-4	Orf	new	F5	R2YIELD
10.	M09-878071	MN1410 x MN1410BC2R2F2-4	Orf	new	F5	R2YIELD
11.	M09-878072	MN1410 x MN1410BC2R2F2-4	Orf	new	F5	R2YIELD
12.	M09-878087	MN1410 x MN1410BC2R2F2-4	Orf	new	F5	R2YIELD
13.	M09-878090	MN1410 x MN1410BC2R2F2-4	Orf	new	F5	R2YIELD
14.	MN1410R2F5-83	MN1410*3 x R2 LINE FROM MONSANTOR2BC2	Orf	1.0	F5	R2
15.	MN1410R2F5-121	MN1410*3 x R2 LINE FROM MONSANTOR2BC2	Orf	1.0	F5	R2
16.	ND11-3473	RG200RR x ND99-2614	Helms	new	F3	
17.	ND11-3672	ND00-547 x Walsh(RR)	Helms	new	F3	
18.	ND11-3778	ND00-2765 x Walsh(RR)	Helms	new	F3	
19.	ND11-3819	ND00-2765 x SD1091(RR)	Helms	new	F3	
20.	ND11-3820	ND00-2765 x SD1091(RR)	Helms	new	F3	

Uniform Test 0 Roundup-Ready, 2014

Descriptive and Disease Data

Strain	Descriptive Code	FE Chlorosis Score Minnesota
AG0532	PTBDYBlI	1.3
AG0231 (E)	PTBDYBlI	1.3
AG0832	PGTDYBrI	1.7
AG1230	PGBDYIbI	1.6
M06R-614008	WTBDYLbr+YI	1.8
M09-876012	WGBDYBfI	1.8
M09-876016	WT+GBDYY+BrI	1.9
M09-876048	WT+GBDYGI	1.6
M09-878011	PGBDYIbI	2.2
M09-878071	WGBDYBfI	1.9
M09-878072	WGBDYBfI	2.0
M09-878087	PGBDYIbI	1.9
M09-878090	P+WGBDYIbI	2.2
MN1410R2F5-83	WGBDYBfI	2.3
MN1410R2F5-121	PGBDYIbI	2.3
ND11-3473	WG+TT+BDYBfI	2.1
ND11-3672	PGTDYYI	1.9
ND11-3778	WGBDYYI	1.9
ND11-3819	P+WGBDYBfI	2.3
ND11-3820	PTBDYBrI	1.9

Uniform Test 0 Roundup-Ready, 2014

Regional Summary

	Yield	Rank	Maturity	Lodging	Plant Height	Seed Quality	Seed Size	Composition	
								Protein	Oil
No. of Tests	5	5	5	5	2	2	4	4	4
Strain	bu/a	No.	Date	Score	In	Score	g/100	(%)	(%)
AG0532	50.4	14	9/20	1.0	28.6	1.5	16.6	33.6	18.0
AG0231 (E)	47.0	19	-3.7	1.0	31.2	2.0	17.7	33.8	18.4
AG0832	57.4	5	4.8	1.2	33.4	1.8	18.4	34.3	18.4
AG1230	57.5	4	6.0	1.0	33.1	1.6	17.3	34.2	17.8
M06R-614008	48.7	16	3.5	1.3	33.5	2.1	14.9	35.1	17.8
M09-876012	58.1	2	4.3	2.2	34.0	1.8	14.1	34.5	17.8
M09-876016	43.9	20	-0.7	1.0	25.8	1.5	15.5	35.0	18.2
M09-876048	58.0	3	3.3	1.5	28.9	1.9	15.5	33.3	18.5
M09-878011	58.5	1	3.3	1.5	33.3	1.5	17.2	34.8	18.2
M09-878071	54.9	11	1.7	1.0	30.8	1.8	17.3	35.4	18.4
M09-878072	56.2	6	3.5	1.2	33.4	1.5	17.3	35.1	18.1
M09-878087	55.3	9	3.3	2.2	32.5	1.8	17.1	34.1	18.4
M09-878090	53.7	12	2.0	1.2	32.7	1.8	16.5	33.7	18.8
MN1410R2F5-83	56.0	7	2.0	1.4	32.9	1.6	14.7	35.9	17.5
MN1410R2F5-121	55.9	8	3.8	1.8	34.0	1.6	15.3	35.0	18.0
ND11-3473	50.6	13	3.7	1.7	34.5	2.0	17.2	33.2	19.3
ND11-3672	47.6	17	-1.3	1.0	32.7	1.1	14.9	33.5	18.6
ND11-3778	55.3	9	3.3	1.0	29.9	1.4	15.2	33.8	19.4
ND11-3819	47.5	18	0.7	1.0	29.8	2.0	15.8	33.3	19.0
ND11-3820	49.6	15	-1.7	1.0	29.8	2.1	16.3	33.9	18.9

115.0 Days After Planting

2013-2014 2-Year Mean

	Yield	Rank	Maturity	Lodging	Plant Height	Seed Quality	Seed Size	Composition	
								Protein	Oil
No. of Tests	8	8	9	9	4	6	8	8	8
Strain	bu/a	No.	Date	Score	In	Score	g/100	(%)	(%)
AG0532	48.6	4	9/19	1.0	29.1	1.8	16.5	34.9	17.8
AG0231 (E)	44.7	6	-5.3	1.0	30.7	2.0	17.3	34.3	18.3
AG1230	55.3	1	5.6	1.0	32.7	1.7	17.2	34.6	18.0
M06R-614008	46.6	5	0.8	1.2	28.7	2.4	15.2	35.3	18.0
MN1410R2F5-83	50.7	3	-0.1	1.4	33.3	1.9	14.9	36.6	17.1
MN1410R2F5-121	54.2	2	4.0	1.9	33.0	1.7	15.3	36.0	17.5

119.4 Days After Planting

Uniform Test 0 Roundup-Ready, 2014

Yield (bu/a)

Strain	Mean 5 Tests	Morris MN	Rosemount MN	Casselton ND	Great Bend ND	St. Hyacinthe QUE
AG0532	50.4	45.8	41.3	49.3	57.6	58.2
AG0231 (E)	47.0	44.4	36.6	52.1	42.3	59.8
AG0832	57.4	57.3	49.1	55.7	62.6	62.5
AG1230	57.5	53.7	54.1	55.6	62.2	61.8
M06R-614008	48.7	45.5	46.7	47.8	49.1	54.2
M09-876012	58.1	53.3	49.8	62.8	66.5	58.0
M09-876016	43.9	42.8	36.2	40.3	43.3	57.1
M09-876048	58.0	56.6	51.4	55.4	65.4	61.0
M09-878011	58.5	51.3	47.3	58.7	66.0	69.4
M09-878071	54.9	48.8	40.6	56.5	60.0	68.5
M09-878072	56.2	48.0	46.8	57.6	62.3	66.3
M09-878087	55.3	48.7	45.1	59.9	59.8	63.2
M09-878090	53.7	48.9	44.5	52.6	59.0	63.6
MN1410R2F5-83	56.0	48.8	46.2	56.3	66.4	62.2
MN1410R2F5-121	55.9	54.7	51.0	53.5	58.9	61.6
ND11-3473	50.6	50.9	42.7	54.3	47.4	57.9
ND11-3672	47.6	44.1	37.7	51.5	48.6	56.2
ND11-3778	55.3	54.9	47.2	54.5	55.3	64.8
ND11-3819	47.5	54.0	42.4	45.1	42.3	53.8
ND11-3820	49.6	43.4	42.7	50.7	55.5	55.7
Location Mean		49.8	45.0	53.5	56.5	60.8
C.V. (%)		13.2	8.6	9.4	14.9	4.37
L.S.D. (5%)		10.9	6.4	8.1	13.5	4.87
Row Sp (In.)		30	30	30	30	14
Rows/Plot		4	4	4	4	4
Reps		3	3	3	3	3

Uniform Test 0 Roundup-Ready, 2014

Yield Rank

Strain	Yield Rank 5 Tests	Morris MN	Rosemount MN	Casselton ND	Great Bend ND	St. Hyacinthe QUE
AG0532	14	15	16	17	12	13
AG0231 (E)	19	17	19	14	19	12
AG0832	5	1	5	7	5	7
AG1230	4	6	1	8	7	9
M06R-614008	16	16	9	18	15	19
M09-876012	2	7	4	1	1	14
M09-876016	20	20	20	20	18	16
M09-876048	3	2	2	9	4	11
M09-878011	1	8	6	3	3	1
M09-878071	11	11	17	5	8	2
M09-878072	6	14	8	4	6	3
M09-878087	9	13	11	2	9	6
M09-878090	12	10	12	13	10	5
MN1410R2F5-83	7	11	10	6	2	8
MN1410R2F5-121	8	4	3	12	11	10
ND11-3473	13	9	13	11	17	15
ND11-3672	17	18	18	15	16	17
ND11-3778	9	3	7	10	14	4
ND11-3819	18	5	15	19	19	20
ND11-3820	15	19	13	16	13	18

Uniform Test 0 Roundup-Ready, 2014

Maturity (date)

Strain	Mean 5 Tests	Morris MN	Rosemount MN	Casselton ND	Great Bend ND	St. Hyacinthe QUE
AG0532	9/20	9/22	9/15	9/18	9/26	9/23
AG0231 (E)	-3.7	-1.0	-1.0	-5.0	0.0	-6.0
AG0832	4.8	4.0	5.0	7.0	5.0	2.0
AG1230	6.0	3.0	7.0	8.0	8.0	1.0
M06R-614008	3.5	2.0	3.0	6.0	4.0	1.0
M09-876012	4.3	3.0	-1.0	8.0	4.0	1.0
M09-876016	-0.7	-1.0	-1.0	0.0	-2.0	0.0
M09-876048	3.3	1.0	0.0	7.0	2.0	1.0
M09-878011	3.3	1.0	3.0	7.0	2.0	1.0
M09-878071	1.7	0.0	-1.0	3.0	1.0	1.0
M09-878072	3.5	1.0	3.0	6.0	4.0	1.0
M09-878087	3.3	0.0	-1.0	7.0	1.0	2.0
M09-878090	2.0	0.0	-1.0	4.0	1.0	1.0
MN1410R2F5-83	2.0	2.0	2.0	3.0	1.0	2.0
MN1410R2F5-121	3.8	2.0	3.0	6.0	4.0	2.0
ND11-3473	3.7	1.0	-1.0	7.0	3.0	1.0
ND11-3672	-1.3	-1.0	-1.0	1.0	-1.0	-4.0
ND11-3778	3.3	1.0	-1.0	6.0	3.0	1.0
ND11-3819	0.7	-1.0	-1.0	2.0	1.0	-1.0
ND11-3820	-1.7	-1.0	-1.0	0.0	1.0	-6.0
Date Planted	5/28	5/22	6/6	5/27	5/27	5/31
Days To Mature	115.0	123.0	101.0	114.0	122.0	115.0

Uniform Test 0 Roundup-Ready, 2014

Strain	Lodging (score)			Plant Height (inches)		
	Mean 2 Tests	Casselton ND	St. Hyacinthe QUE	Mean 2 Tests	Casselton ND	St. Hyacinthe QUE
AG0532	1.0	1.0	1.0	28.6	22.0	35.2
AG0231 (E)	1.0	1.0	1.0	31.2	28.0	34.4
AG0832	1.2	1.0	1.3	33.4	27.0	39.7
AG1230	1.0	1.0	1.0	33.1	28.0	38.2
M06R-614008	1.3	1.3	1.3	33.5	25.0	41.9
M09-876012	2.2	2.3	2.0	34.0	28.0	39.9
M09-876016	1.0	1.0	1.0	25.8	20.0	31.5
M09-876048	1.5	1.3	1.7	28.9	25.0	32.8
M09-878011	1.5	1.7	1.3	33.3	27.0	39.6
M09-878071	1.0	1.0	1.0	30.8	28.0	33.6
M09-878072	1.2	1.0	1.3	33.4	28.0	38.7
M09-878087	2.2	2.3	2.0	32.5	27.0	38.0
M09-878090	1.2	1.0	1.3	32.7	27.0	38.4
MN1410R2F5-83	1.4	1.0	1.7	32.9	29.0	36.7
MN1410R2F5-121	1.8	1.3	2.3	34.0	28.0	39.9
ND11-3473	1.7	1.3	2.0	34.5	29.0	39.9
ND11-3672	1.0	1.0	1.0	32.7	28.0	37.4
ND11-3778	1.0	1.0	1.0	29.9	23.0	36.7
ND11-3819	1.0	1.0	1.0	29.8	24.0	35.5
ND11-3820	1.0	1.0	1.0	29.8	27.0	32.5

Uniform Test 0 Roundup-Ready, 2014

Seed Quality (score)

Strain	Mean 4 Tests	Morris MN	Rosemount MN	Casselton ND	St. Hyacinthe QUE
AG0532	1.5	1.0	1.0	1.0	3.0
AG0231 (E)	2.0	2.0	2.0	1.0	3.0
AG0832	1.8	1.0	2.0	1.0	3.0
AG1230	1.6	1.0	1.0	1.0	3.3
M06R-614008	2.1	2.0	2.0	1.0	3.2
M09-876012	1.8	1.0	2.0	1.0	3.0
M09-876016	1.5	1.0	1.0	1.0	3.0
M09-876048	1.9	1.0	2.0	1.0	3.5
M09-878011	1.5	1.0	1.0	1.0	3.0
M09-878071	1.8	1.0	2.0	1.0	3.0
M09-878072	1.5	1.0	1.0	1.0	3.0
M09-878087	1.8	2.0	1.0	1.0	3.0
M09-878090	1.8	1.0	2.0	1.0	3.0
MN1410R2F5-83	1.6	1.0	1.0	1.0	3.2
MN1410R2F5-121	1.6	1.0	1.0	1.0	3.2
ND11-3473	2.0	1.0	2.0	1.0	4.0
ND11-3672	1.1	1.0	1.0	1.0	1.5
ND11-3778	1.4	1.0	2.0	1.0	1.5
ND11-3819	2.0	1.0	2.0	2.0	3.0
ND11-3820	2.1	2.0	2.0	1.0	3.5

Uniform Test 0 Roundup-Ready, 2014

Seed Size (g/100)

Strain	Mean 4 Tests	Morris MN	Rosemount MN	Casselton ND	St. Hyacinthe QUE
AG0532	16.6	16.4	15.7	17.5	16.6
AG0231 (E)	17.7	17.9	16.5	18.4	17.8
AG0832	18.4	19.6	18.4	17.5	18.1
AG1230	17.3	18.5	16.5	17.0	17.2
M06R-614008	14.9	15.3	14.2	14.9	15.3
M09-876012	14.1	16.0	12.6	13.9	13.9
M09-876016	15.5	17.0	14.4	15.2	15.3
M09-876048	15.5	17.1	14.4	15.3	15.1
M09-878011	17.2	18.6	16.5	17.0	16.8
M09-878071	17.3	18.6	16.6	16.6	17.3
M09-878072	17.3	18.0	16.3	17.4	17.5
M09-878087	17.1	19.0	16.2	16.1	17
M09-878090	16.5	18.7	15.1	15.8	16.4
MN1410R2F5-83	14.7	16.1	13.2	14.7	14.8
MN1410R2F5-121	15.3	16.5	14.2	14.8	15.7
ND11-3473	17.2	19.1	15.4	16.5	17.6
ND11-3672	14.9	14.8	14.5	15.3	14.8
ND11-3778	15.2	16.7	14.1	14.6	15.3
ND11-3819	15.8	16.8	14.8	16.5	15.2
ND11-3820	16.3	16.9	16.7	16.2	15.4

Uniform Test 0 Roundup-Ready, 2014

Protein (%)

Strain	Mean 4 Tests	Morris MN	Rosemount MN	Casselton ND	St. Hyacinthe QUE*
AG0532	33.6	34.8	32.9	33.3	33.5
AG0231 (E)	33.8	34.5	33.9	33.8	32.8
AG0832	34.3	34.7	34.7	34.1	33.8
AG1230	34.2	35.2	34.3	33.6	33.8
M06R-614008	35.1	35.5	35.4	34.8	34.9
M09-876012	34.5	35.4	34.4	33.9	34.5
M09-876016	35.0	35.8	36.3	33.5	34.5
M09-876048	33.3	34.4	33.3	32.9	32.5
M09-878011	34.8	35.3	35.4	34.5	34.0
M09-878071	35.4	36.1	36.1	34.6	34.9
M09-878072	35.1	36.3	35.1	34.6	34.5
M09-878087	34.1	35.5	34.3	33.5	33.1
M09-878090	33.7	35.0	34.3	32.7	32.8
MN1410R2F5-83	35.9	36.3	36.0	35.7	35.4
MN1410R2F5-121	35.0	35.7	36.1	34.2	34.1
ND11-3473	33.2	34.5	34.4	31.6	32.5
ND11-3672	33.5	34.5	34.3	32.5	32.5
ND11-3778	33.8	35.1	35.7	31.5	32.7
ND11-3819	33.3	34.0	34.3	32.4	32.5
ND11-3820	33.9	35.4	35.4	32.6	32.1

*Protein and Oil values converted to 13% moisture basis

Uniform Test 0 Roundup-Ready, 2014

Oil (%)

Strain	Mean 4 Tests	Morris MN	Rosemount MN	Casselton ND	St. Hyacinthe QUE*
AG0532	18.0	18.6	19.3	17.4	16.53
AG0231 (E)	18.4	18.7	19.3	18.1	17.3
AG0832	18.4	19.1	19.6	17.5	17.4
AG1230	17.8	18.2	19.1	17.3	16.8
M06R-614008	17.8	18.1	18.6	17.6	17.1
M09-876012	17.8	18.1	18.9	17.5	16.8
M09-876016	18.2	18.5	18.7	18.5	17.1
M09-876048	18.5	19.0	19.5	18.2	17.4
M09-878011	18.2	18.9	19.1	17.5	17.5
M09-878071	18.4	19.0	19.1	18.1	17.3
M09-878072	18.1	18.2	19.1	17.8	17.3
M09-878087	18.4	19.0	19.8	16.7	18.1
M09-878090	18.8	19.2	19.1	18.8	18.0
MN1410R2F5-83	17.5	18.1	18.1	17.4	16.4
MN1410R2F5-121	18.0	18.6	18.7	17.2	17.5
ND11-3473	19.3	19.6	19.9	19.3	18.3
ND11-3672	18.6	18.9	19.3	18.7	17.4
ND11-3778	19.4	19.6	19.3	19.7	19.0
ND11-3819	19.0	19.1	19.5	19.2	18.3
ND11-3820	18.9	19.0	19.2	18.9	18.4

*Protein and Oil values converted to 13% moisture basis

Uniform Test I Roundup-Ready, 2014

Ent.	Strain	Parentage	Seed Source	Previous Testing	Gen. Comp.	Unique Traits
1.	AG1631	na	Monsanto	1.0		
2.	AG1230 (E)	na	Monsanto	2.0		
3.	U07-135601R	na	Graef	5.0	F4	RR, dt
4.	AG2031	na	Monsanto	2.0		
5.	M00-530039	MN1803RR x M96-136086	Orf	7.0	F5	Rps1
6.	M09-876026	MN1701CN x MN1410BC2R2F2-4	Orf	new	F5	R2
7.	M09-876048	MN1701CN x MN1410BC2R2F2-4	Orf	new	F5	R2CN
8.	M09-876061	MN1701CN x MN1410BC2R2F2-4	Orf	new	F5	R2CN
9.	M09-876062	MN1701CN x MN1410BC2R2F2-4	Orf	new	F5	R2CN
10.	M09-877004	MN1410 x MN1410BC2R2F2-3	Orf	new	F5	R2YIELD
11.	M09-877022	MN1410 x MN1410BC2R2F2-3	Orf	new	F5	R2YIELD
12.	M09-878013	MN1410 x MN1410BC2R2F2-3	Orf	new	F5	R2YIELD
13.	MN1410R2F5-117	MN1410*3 x R2 LINE FROM MONSANTOR2BC2	Orf	1.0	F5	R2
14.	U12-903108R	U07-135601R x U07-135377R	Graef	1.0	F5	RR1
15.	U12-904114R	U07-135601R x U07-135377R	Graef	1.0	F5	RR1

Descriptive and Disease Data

Strain	Descriptive Code	FE Chlorosis Score Lamberton, MN
AG1631	PGBBYIbI	2.0
AG1230 (E)	PGBDYIbI	1.8
U07-135601R	PGTDYIbD	2.7
AG2031	PTBDYBlI	2.3
M00-530039	PLtTDYBrI	1.9
M09-876026	WTTDYGI	1.8
M09-876048	PGBlDYGI	2.4
M09-876061	PGTDYYI	2.2
M09-876062	PGBDYYI	2.0
M09-877004	PGBDYIbI	2.1
M09-877022	WGBDYBfI	2.3
M09-878013	WGBDYBfI	2.3
MN1410R2F5-117	PGBDYIbI	2.6
U12-903108R	PTBSYBlD	2.8
U12-904114R	PTTSYBlD	2.8

Uniform Test I Roundup-Ready, 2014

Regional Summary

	Yield	Rank	Maturity	Lodging	Plant Height	Seed Quality	Seed Size	Composition	
								Protein	Oil
No. of Tests	6	6	6	6	4	5	6	5	5
Strain	bu/a	No.	Date	Score	In	Score	g/100	(%)	(%)
AG1631	62.5	14	9/20	1.4	30.4	2.2	15.2	34.1	18.8
AG1230 (E)	64.5	10	0.5	1.0	30.5	2.4	17.5	35.5	18.1
U07-135601R	67.9	5	3.6	1.0	32.2	2.0	15.2	34.9	18.2
AG2031	71.7	1	5.0	1.5	34.6	2.2	17.1	36.2	18.0
M00-530039	62.9	13	-0.4	1.2	29.3	2.0	18.7	34.9	18.8
M09-876026	68.1	4	3.0	1.7	36.7	2.6	17.4	34.9	18.2
M09-876048	69.2	2	2.0	1.6	33.5	2.4	15.8	33.7	18.8
M09-876061	63.1	12	2.2	2.2	33.0	1.8	15.8	34.9	18.1
M09-876062	65.3	9	0.3	1.5	32.2	2.6	16.2	35.4	18.0
M09-877004	66.9	6	1.0	1.6	36.3	2.4	16.0	35.6	18.3
M09-877022	63.3	11	-0.3	1.4	32.7	2.4	16.8	35.9	18.5
M09-878013	61.4	15	0.5	1.8	33.4	2.6	18.3	35.8	18.5
MN1410R2F5-117	66.0	7	1.0	1.7	36.3	2.4	15.6	35.9	18.1
U12-903108R	65.6	8	2.8	1.2	35.3	1.6	15.8	36.3	18.1
U12-904114R	68.6	3	4.0	1.7	33.6	1.7	16.5	35.7	18.1

†Additional locations data to be added

118.0 Days After Planting

2013-2014 2-Year Mean

	Yield	Rank	Maturity	Lodging	Plant Height	Seed Quality	Seed Size	Composition	
								Protein	Oil
No. of Tests	15	15	12	13	11	10	13	8	8
Strain	bu/a	No.	Date	Score	In	Score	g/100	(%)	(%)
AG1631	60.5	7	9/19	1.4	29.9	1.6	14.9	33.4	18.9
AG1230 (E)	61.0	6	-0.6	1.2	29.3	1.9	17.6	34.7	18.1
U07-135601R	63.3	4	3.6	1.1	29.3	1.5	15.2	34.0	18.4
AG2031	67.9	1	4.7	1.4	33.5	1.6	17.6	35.1	18.1
M00-530039	59.1	8	-1.1	1.2	28.1	1.7	18.3	34.6	18.6
MN1410R2F5-117	62.8	5	1.0	1.7	34.6	1.9	15.8	35.0	18.1
U12-903108R	63.8	3	3	1.2	34.1	1.4	16.4	35.5	18.2
U12-904114R	66.5	2	4	1.6	32.3	1.6	17.2	35.0	18.1

122.4 Days After Planting

Uniform Test I Roundup-Ready, 2014

Yield (bu/a)

Strain	Mean 6 Tests	Lafayette IN	Ingham MI*	Saginaw MI	Lamberton MN	Hooper NE	Phillips NE	St. Hyacinthe QUE
AG1631	62.5	58.5	48.0	71.7	58.9	63.5	71.9	50.5
AG1230 (E)	64.5	60.6	54.4	74.1	56.6	57.3	82.0	56.2
U07-135601R	67.9	60.0	40.1	68.0	62.8	74.1	91.1	51.3
AG2031	71.7	63.2	49.9	78.9	60.1	75.4	97.6	54.9
M00-530039	62.9	53.1	35.3	65.4	52.8	61.4	88.9	55.7
M09-876026	68.1	59.9	52.3	72.7	63.1	67.3	82.9	62.5
M09-876048	69.2	62.0	39.0	72.2	59.8	71.6	87.8	61.7
M09-876061	63.1	57.1	57.8	71.6	56.7	65.1	75.4	52.8
M09-876062	65.3	58.7	56.5	74.4	53.4	59.4	83.5	62.2
M09-877004	66.9	60.9	35.8	72.6	53.2	64.7	85.9	64.1
M09-877022	63.3	52.2	21.5	64.2	55.0	62.1	79.0	67.1
M09-878013	61.4	57.4	30.0	69.9	46.4	57.8	73.2	63.8
MN1410R2F5-117	66.0	57.5	36.0	73.5	53.0	72.4	81.4	58.1
U12-903108R	65.6	57.5	36.8	65.0	59.8	67.1	88.1	56.4
U12-904114R	68.6	56.8	43.9	67.1	60.7	76.9	89.4	60.5
Location Mean		58.3	42.5	70.8	56.8	66.4	83.9	58.5
C.V. (%)		7.8	15.8	7.4	10.4	6.1	7.3	6.7
L.S.D. (5%)		7.1	17.6	13.7	9.7	9.9	15.1	6.5
Row Sp (In.)		30	15	15	30	30	30	14
Rows/Plot		4	6	6	4	4	4	4
Reps		3	2	2	3	2	2	3

*Data not included in mean

Uniform Test I Roundup-Ready, 2014

Yield Rank

Strain	Yield Rank 6 Tests	Lafayette IN	Ingham MI	Saginaw MI	Lamberton MN	Hooper NE	Phillips NE	St. Hyacinthe QUE
AG1631	14	8	6	8	7	10	15	15
AG1230 (E)	10	4	3	3	9	15	10	10
U07-135601R	5	5	8	11	2	3	2	14
AG2031	1	1	5	1	4	2	1	12
M00-530039	13	14	13	13	14	12	4	11
M09-876026	4	6	4	5	1	6	9	4
M09-876048	2	2	9	7	5	5	6	6
M09-876061	12	12	1	9	8	8	13	13
M09-876062	9	7	2	2	11	13	8	5
M09-877004	6	3	12	6	12	9	7	2
M09-877022	11	15	15	15	10	11	12	1
M09-878013	15	11	14	10	15	14	14	3
MN1410R2F5-117	7	9	11	4	13	4	11	8
U12-903108R	8	10	10	14	5	7	5	9
U12-904114R	3	13	7	12	3	1	3	7

Maturity (date)

Strain	Mean 6 Tests	Lafayette IN	Ingham MI	Saginaw MI	Lamberton MN	Hooper NE	Phillips NE	St. Hyacinthe QUE
AG1631	9/20	9/17	9/22	.	9/26	9/14	9/12	9/29
AG1230 (E)	0.5	-2.3	3.0	.	-1	0.0	0.0	-1.0
U07-135601R	3.6	0.7	2.0	.	7.0	5.0	4.0	0.0
AG2031	5.0	3.3	5.0	.	7.0	6.0	4.0	3.0
M00-530039	-0.4	-5.7	1.0	.	1.0	-4.0	1.0	-1.0
M09-876026	3.0	0.0	4.0	.	5.0	5.0	1.0	0.0
M09-876048	2.0	1.0	2.0	.	2.0	4.0	3.0	-1.0
M09-876061	2.2	-1.0	5.0	.	2.0	3.0	1.0	0.0
M09-876062	0.3	-5.3	0.0	.	-1	2.0	0.0	-1.0
M09-877004	1.0	0.0	-1.0	.	1.0	3.0	2.0	0.0
M09-877022	-0.3	-6.3	-1.0	.	-3	0.0	1.0	-1.0
M09-878013	0.5	-6.3	-1.0	.	0	3.0	1.0	-1.0
MN1410R2F5-117	1.0	-1.0	-1.0	.	1.0	4.0	1.0	0.0
U12-903108R	2.8	1.0	4.0	.	4.0	3.0	3.0	0.0
U12-904114R	4.0	-0.5	5.0	.	5.0	6.0	3.0	1.0
Date Planted	5/24	5/26	6/10	5/29	5/15	5/17	5/20	5/31
Days To Mature	118.0	114.0	104.0	.	134.0	120.0	115.0	121.0

Uniform Test I Roundup-Ready, 2014

Lodging (score)

Strain	Mean 6 Tests	Lafayette IN	Ingham MI	Lamberton MN	Hooper NE	Phillips NE	St. Hyacinthe QUE
AG1631	1.4	1.3	1.0	2.0	1.5	1.8	1.0
AG1230 (E)	1.0	1.0	1.0	1.0	1.3	1.0	1.0
U07-135601R	1.0	1.0	1.5	1.0	0.8	1.0	1.0
AG2031	1.5	1.2	1.0	2.0	1.3	2.0	1.3
M00-530039	1.2	1.2	1.0	1.0	1.5	1.0	1.3
M09-876026	1.7	1.7	1.5	2.0	1.3	2.0	2.0
M09-876048	1.6	1.7	1.0	2.0	1.8	2.3	1.0
M09-876061	2.2	1.8	2.0	2.0	1.0	3.8	2.7
M09-876062	1.5	1.5	1.5	2.0	1.3	1.3	1.7
M09-877004	1.6	1.7	1.0	2.0	1.5	1.5	1.7
M09-877022	1.4	1.5	1.0	1.0	1.5	1.5	1.7
M09-878013	1.8	1.8	1.0	2.0	1.8	1.8	2.3
MN1410R2F5-117	1.7	1.8	1.0	2.0	1.3	1.5	2.7
U12-903108R	1.2	1.2	1.0	1.0	1.0	1.8	1.0
U12-904114R	1.7	1.5	1.5	2.0	1.5	2.3	1.3

Plant Height (inches)

Strain	Mean 4 Tests	Lafayette IN	Ingham MI	Phillips NE	St. Hyacinthe QUE
AG1631	30.4	30.0	22.0	31	38.6
AG1230 (E)	30.5	30.3	23.0	30.5	38
U07-135601R	32.2	29.7	27.0	33.5	38.6
AG2031	34.6	33.7	26.0	35	43.8
M00-530039	29.3	29.0	19.0	31.5	37.7
M09-876026	36.7	36.0	30.0	35.8	45.2
M09-876048	33.5	35.0	21.0	37.0	40.9
M09-876061	33.0	34.3	27.0	32.0	38.8
M09-876062	32.2	31.7	26.0	32.0	39.3
M09-877004	36.3	37.0	25.0	36.5	46.8
M09-877022	32.7	33.7	19.0	34.3	43.8
M09-878013	33.4	33.7	22.0	33.5	44.6
MN1410R2F5-117	36.3	35.3	25.0	39.0	45.7
U12-903108R	35.3	35.0	25.0	36.5	44.6
U12-904114R	33.6	32.0	27.0	33.8	41.7

Uniform Test I Roundup-Ready, 2014

Seed Quality (score)

Strain	Mean 5 Tests	Lafayette IN	Lamberton MN	Waseca MN	Phillips NE	St. Hyacinthe QUE
AG1631	2.2	2.0	1.0	3.0	2.0	3.2
AG1230 (E)	2.4	2.0	2.0	3.0	2.0	3.2
U07-135601R	2.0	1.0	2.0	2.0	2.0	3.0
AG2031	2.2	2.0	1.0	3.0	2.0	3.0
M00-530039	2.0	2.0	1.0	2.0	2.0	2.8
M09-876026	2.6	2.0	2.0	4.0	2.0	3.0
M09-876048	2.4	2.0	2.0	3.0	2.0	3.0
M09-876061	1.8	2.0	1.0	2.0	1.0	3.0
M09-876062	2.6	2.0	3.0	4.0	2.0	2.0
M09-877004	2.4	2.0	2.0	3.0	2.0	3.0
M09-877022	2.4	2.0	1.0	4.0	2.0	3.0
M09-878013	2.6	2.0	2.0	4.0	2.0	3.0
MN1410R2F5-117	2.4	2.0	2.0	3.0	2.0	3.2
U12-903108R	1.6	1.0	1.0	2.0	2.0	1.8
U12-904114R	1.7	1.0	2.0	3.0	1.0	1.5

Seed Size (g/100)

Strain	Mean 6 Tests	Lafayette IN	Ingham MI	Lamberton MN	Waseca MN	Phillips NE	St. Hyacinthe QUE
AG1631	15.2	14.1	14.6	15.1	16.7	15.5	13.9
AG1230 (E)	17.5	16.5	17.1	17.1	17.2	19.6	17
U07-135601R	15.2	13.7	12.6	15.7	16.1	18	13.8
AG2031	17.1	15.7	16.4	17.1	16.8	19.5	16.3
M00-530039	18.7	16.7	15.5	18.3	19.1	23.7	17.4
M09-876026	17.4	15.1	17.0	16.9	17.6	20.5	17.4
M09-876048	15.8	14.4	14.8	15.2	15.8	18.6	15.3
M09-876061	15.8	12.2	16.4	15.3	16.7	18.6	16.3
M09-876062	16.2	13.7	15.0	16.7	17.3	18.4	14.4
M09-877004	16.0	13.7	14.1	14.9	17.0	20.4	16.3
M09-877022	16.8	14.8	13.4	16	18.5	21.4	18.2
M09-878013	18.3	17.1	14.8	17.3	20.4	21.7	19.6
MN1410R2F5-117	15.6	12.9	13.4	14.5	17.6	19.5	15.3
U12-903108R	15.8	13.4	13.3	14.7	17.7	20.0	14.8
U12-904114R	16.5	13.9	14.6	16.3	18.6	19.1	16.0

Uniform Test I Roundup-Ready, 2014

Protein (%)

Strain	Mean 5 Tests	Lafayette IN	Ingham MI	Lamberton MN	Phillips NE	St. Hyacinthe QUE*
AG1631	34.1	35.1	34.9	33.5	33.0	34.3
AG1230 (E)	35.5	35.6	36.1	35.7	35.8	34.2
U07-135601R	34.9	35.5	35.8	35.2	34.4	33.4
AG2031	36.2	35.5	36.3	37.8	35.5	35.8
M00-530039	34.9	34.8	35.4	34.8	35.3	33.9
M09-876026	34.9	34.7	36.1	34.2	35.0	34.5
M09-876048	33.7	34.5	34.5	32.1	34.6	32.9
M09-876061	34.9	34.0	36.0	34.8	34.7	35.1
M09-876062	35.4	36.2	35.8	34.7	35.8	34.5
M09-877004	35.6	35.8	36.1	34.6	36.1	35.4
M09-877022	35.9	35.8	35.3	34.8	37.2	36.2
M09-878013	35.8	36.3	35.8	35.1	36.4	35.3
MN1410R2F5-117	35.9	36.8	36.2	35.0	36.1	35.6
U12-903108R	36.3	37.0	37.2	35.8	36.6	34.9
U12-904114R	35.7	36.9	33.9	36.8	36.6	34.3

*Protein and Oil values converted to 13% moisture basis

Oil (%)

Strain	Mean 5 Tests	Lafayette IN	Ingham MI	Lamberton MN	Phillips NE	St. Hyacinthe QUE*
AG1631	18.8	19.5	18.6	18.6	19.5	17.9
AG1230 (E)	18.1	19.1	17.9	17.7	18.8	17.0
U07-135601R	18.2	19.3	17.7	17.2	19.5	17.2
AG2031	18.0	19.5	18.0	17.2	18.9	16.4
M00-530039	18.8	20.1	18.6	17.9	19.5	17.8
M09-876026	18.2	19.8	18.3	16.8	19.2	17.0
M09-876048	18.8	19.8	18.8	18.3	19.3	17.9
M09-876061	18.1	19.5	17.9	17.2	19.2	16.5
M09-876062	18.0	18.7	18.6	17.0	18.4	17.4
M09-877004	18.3	19.2	18.1	17.9	18.9	17.5
M09-877022	18.5	19.2	19.0	17.6	18.6	17.9
M09-878013	18.5	19.1	17.9	18.7	18.8	18.1
MN1410R2F5-117	18.1	18.7	18.2	18.2	18.9	16.7
U12-903108R	18.1	19.0	17.5	17.5	19.4	17.1
U12-904114R	18.1	18.8	18.7	16.8	18.8	17.2

*Protein and Oil values converted to 13% moisture basi

Uniform Test II Roundup-Ready, 2014

Ent.	Strain	Parentage	Seed Source	Previous Testing	Gen. Comp.	Unique Traits
1.	U06-814223R (II)	na	Graef	4.0	F5	RR,Dt
2.	AG2031 (E)	na	Monsanto	2.0		
3.	AG2632	new	Monsanto	4.0		
4.	NEX2905A0R (L)	na	Graef	8.0		Det.
5.	M09-877021	MN1410 X MN1410BC2R2F2-3	Orf	new	F5	R2YIELD
6.	M09-877026	MN1410 X MN1410BC2R2F2-3	Orf	new	F5	R2YIELD
7.	U11-607166R	U07-338254R x U07-135478R	Graef	new	F5	
8.	U12-903112R	U07-135601R x U07-135377R	Graef	new	F5	
9.	U12-909109R	U07-135601R x U07-135377R	Graef	new	F5	
10.	U12-917123R	U07-135601R x U08-932024R	Graef	new	F5	
11.	U12-920124R	U07-135601R x U08-932024R	Graef	1.0	F5	RR1
12.	U12-923116R	U07-135601R x U08-932024R	Graef	1.0	F5	RR1
13.	U12-924100R	U07-135601R x U08-932024R	Graef	new	F5	
14.	U12-924117R	U07-135601R x U08-932024R	Graef	1.0	F5	RR1
15.	U12-926115R	U07-135601R x U08-932024R	Graef	1.0	F5	RR1

Uniform Test II Roundup-Ready, 2014

Descriptive and Disease Data

Strain	Descriptive Code	FE Chlorosis Score Lamberton, MN
U06-814223R (II)	WTBDYBlD	2.3
AG2031 (E)	PTBDYBlI	2.3
AG2632	PTTDYBlI	2.4
NEX2905A0R (L)	PGBDYIbD	3.2
M09-877021	PGBDYIbI	2.1
M09-877026	PGBDYIbI	2.3
U11-607166R	PGTDYIbD	2.0
U12-903112R	PGBIYIbI	2.6
U12-909109R	WTBDYBlI	2.0
U12-917123R	PGBDYIbI	2.4
U12-920124R	PGTDYIbI	3.1
U12-923116R	PGTDYIbD	3.2
U12-924100R	PGBDYIbI	3.6
U12-924117R	PGBDYIbI	2.9
U12-926115R	PGTDYIbI	2.6

Uniform Test II Roundup-Ready, 2014

Regional Summary

	Yield	Rank	Maturity	Lodging	Plant Height	Seed Quality	Seed Size	Composition	
								Protein	Oil
No. of Tests	8	8	8	8	6	6	7	6	6
Strain	bu/a	No.	Date	Score	In	Score	g/100	(%)	(%)
U06-814223R (II)	66.8	15	9/28	1.3	31.5	1.5	15.1	34.2	19.5
AG2031 (E)	69.4	7	1.4	1.5	34.9	1.8	17.6	35.9	18.7
AG2632	72.1	2	5.3	1.6	35.5	1.7	15.9	35.7	18.5
NEX2905A0R (L)	67.4	10	4.4	1.7	37.5	1.3	13.3	34.4	18.6
M09-877021	67.2	13	2.3	2.1	38.5	2.0	16.5	36.2	18.6
M09-877026	68.0	9	2.4	1.8	37.6	2.2	16.0	35.7	18.4
U11-607166R	70.8	4	5.8	1.8	34.0	2.0	15.1	34.6	19.1
U12-903112R	68.5	8	4.0	1.6	32.3	1.5	13.7	34.4	19.0
U12-909109R	72.3	1	4.4	1.3	32.3	1.8	15.2	34.2	19.0
U12-917123R	67.4	11	5.4	2.0	41.3	1.5	11.4	34.8	18.6
U12-920124R	67.3	12	4.1	1.7	36.2	2.0	14.3	34.9	18.6
U12-923116R	70.5	5	2.7	1.9	35.7	1.8	15.2	35.1	18.9
U12-924100R	66.9	14	3.2	2.2	36.6	1.7	14.5	35.3	18.8
U12-924117R	69.9	6	4.0	1.2	35.8	1.7	14.6	34.7	18.5
U12-926115R	72.0	3	1.7	1.3	33.8	1.7	13.2	35.2	19.0

126.1 Days After Planting

2013-2014 2-Year Mean

	Yield	Rank	Maturity	Lodging	Plant Height	Seed Quality	Seed Size	Composition	
								Protein	Oil
No. of Tests	18	18	16	17	12	12	16	11	11
Strain	bu/a	No.	Date	Score	In	Score	g/100	(%)	(%)
U06-814223R (II)	63.9	8	9/24	1.2	29.2	1.5	15.2	34.3	19.6
AG2031 (E)	66.8	5	-0.1	1.5	34.0	1.6	17.9	35.5	19.1
NEX2905A0R (L)	65.4	7	4.5	1.4	34.8	1.3	13.6	34.0	19.1
U11-607166R	68.3	4	6.5	1.5	32.8	1.5	15.4	34.5	19.4
U12-920124R	66.4	6	4.4	1.4	35.9	1.6	15.0	34.6	19.2
U12-923116R	68.3	3	2	1.8	33.7	1.5	15.0	34.8	19.1
U12-924117R	69.3	1	4	1.2	34.6	1.4	15.0	34.7	18.8
U12-926115R	69.2	2	1	1.2	33.3	1.3	13.4	34.9	19.4

125.8 Days After Planting

Uniform Test II Roundup-Ready, 2014

Yield (bu/a)

Strain	Mean 8 Tests	Urbana IL	Lafayette IN	Ingham MI	Lenawee MI	Lamberton MN
U06-814223R (II)	66.8	63.6	62.7	56.0	74.0	50.4
AG2031 (E)	69.4	68.0	70.3	48.1	72.7	50.3
AG2632	72.1	80.2	69.8	59.0	68.4	54.9
NEX2905A0R (L)	67.4	58.9	67.0	49.0	58.6	47.4
M09-877021	67.2	61.0	59.5	55.4	65.4	53.4
M09-877026	68.0	63.9	64.0	55.5	65.0	55.7
U11-607166R	70.8	70.1	60.4	44.7	65.0	46.7
U12-903112R	68.5	65.2	62.6	49.0	66.5	48.3
U12-909109R	72.3	67.1	65.2	52.8	69.1	45.9
U12-917123R	67.4	66.6	59.6	43.9	62.2	45.2
U12-920124R	67.3	61.3	57.3	32.0	64.8	47.8
U12-923116R	70.5	67.2	61.0	48.8	68.0	50.3
U12-924100R	66.9	64.4	66.0	39.2	64.8	46.8
U12-924117R	69.9	71.8	62.9	44.7	64.8	46.2
U12-926115R	72.0	67.4	64.9	54.2	69.4	54.9
Location Mean		66.4	63.5	48.8	66.6	49.6
C.V. (%)		3.5	9.5	14.8	4.0	11.4
L.S.D. (5%)		5.0	9.6	18.9	6.9	9.4
Row Sp (In.)		30	30	15	15	30
Rows/Plot		4	4	6	6	4
Reps		2	3	2	2	3

*Data not included in mean

Uniform Test II Roundup-Ready, 2014

Yield (bu/a)

Strain	Westbrook MN*	Cotesfield NE	Hooper NE	Phillips NE
U06-814223R (II)	41.1	72.9	70.2	84.3
AG2031 (E)	41.1	71.8	80.4	93.6
AG2632	38.5	90.6	68.6	85.2
NEX2905A0R (L)	32.8	89.2	77.1	92.2
M09-877021	36.2	81.4	74.2	87.0
M09-877026	36.5	78.7	73.3	87.8
U11-607166R	32.7	95.0	80.5	104.2
U12-903112R	33.3	95.9	79.3	80.9
U12-909109R	34.4	91.3	85.4	101.9
U12-917123R	32.6	92.6	74.6	94.2
U12-920124R	33.5	93.4	77.8	104.3
U12-923116R	38.9	87.7	78.8	102.5
U12-924100R	32.4	87.0	80.6	86.6
U12-924117R	36.6	91.9	76.8	100.4
U12-926115R	35.3	88.0	76.3	100.6
Location Mean	35.7	87.2	76.9	93.7
C.V. (%)	16.0	6.9	3.7	8.8
L.S.D. (5%)	9.5	14.8	7.5	20.2
Row Sp (In.)	30	30	30	30
Rows/Plot	4	4	4	4
Reps	3	2	2	2

*Data not included in mean

Uniform Test II Roundup-Ready, 2014

Yield Rank

Strain	Yield Rank 8 Tests	Urbana IL	Lafayette IN	Ingham MI	Lenawee MI
U06-814223R (II)	15	12	9	2	1
AG2031 (E)	7	4	1	9	2
AG2632	2	1	2	1	5
NEX2905A0R (L)	10	15	3	7	15
M09-877021	13	14	14	4	8
M09-877026	9	11	7	3	9
U11-607166R	4	3	12	10	9
U12-903112R	8	9	10	7	7
U12-909109R	1	7	5	6	4
U12-917123R	11	8	13	11	14
U12-920124R	12	13	15	13	11
U12-923116R	5	6	11	8	6
U12-924100R	14	10	4	12	11
U12-924117R	6	2	8	10	11
U12-926115R	3	5	6	5	3

Maturity (date)

Strain	Mean 8 Tests	Urbana IL	Lafayette IN	Ingham MI	Lenawee MI
U06-814223R (II)	9/28	9/16	9/21	10/9	10/4
AG2031 (E)	1.4	1.0	6.3	3.0	1.0
AG2632	5.3	8.0	11.3	5.0	4.0
NEX2905A0R (L)	4.4	8.0	10.7	2.0	5.0
M09-877021	2.3	2.0	7.3	1.0	1.0
M09-877026	2.4	3.0	7.7	1.0	1.0
U11-607166R	5.8	8.0	11.7	3.0	7.0
U12-903112R	4.0	4.0	10.3	1.0	5.0
U12-909109R	4.4	5.0	10.0	1.0	3.0
U12-917123R	5.4	10.0	11.0	3.0	5.0
U12-920124R	4.1	8.0	10.7	0.0	6.0
U12-923116R	2.7	4.0	6.3	3.0	2.0
U12-924100R	3.2	6.0	8.7	-1.0	4.0
U12-924117R	4.0	5.0	9.0	0.0	5.0
U12-926115R	1.7	1.0	6.0	1.0	2.0
Date Planted	5/23	5/27	5/26	6/10	6/9
Days To Mature	126.1	112.0	118.0	121.0	117.0

Uniform Test II Roundup-Ready, 2014

Yield Rank

Strain	Lamberton MN	Westbrook MN	Cotesfield NE	Hooper NE	Phillips NE
U06-814223R (II)	5	1	14	14	14
AG2031 (E)	6	1	15	4	8
AG2632	2	4	7	15	13
NEX2905A0R (L)	10	12	8	8	9
M09-877021	4	7	12	12	11
M09-877026	1	6	13	13	10
U11-607166R	12	13	2	3	2
U12-903112R	8	11	1	5	15
U12-909109R	14	9	6	1	4
U12-917123R	15	14	4	11	7
U12-920124R	9	10	3	7	1
U12-923116R	6	3	10	6	3
U12-924100R	11	15	11	2	12
U12-924117R	13	5	5	9	6
U12-926115R	2	8	9	10	5

Maturity (date)

Strain	Lamberton MN	Westbrook MN	Cotesfield NE	Hooper NE	Phillips NE
U06-814223R (II)	10/10	10/3	.	9/21	9/21
AG2031 (E)	-8	-1	.	-1	-2
AG2632	3	-2	.	6	0
NEX2905A0R (L)	3	0	.	7	-5
M09-877021	-8	1	.	3	1
M09-877026	-9	1	.	4	-1
U11-607166R	7	2	.	8	0
U12-903112R	6	1	.	7	-2
U12-909109R	5	0	.	7	0
U12-917123R	4	0	.	7	-2
U12-920124R	2	1	.	6	-1
U12-923116R	2	1	.	6	-3
U12-924100R	2	0	.	6	-3
U12-924117R	-7	0	.	7	-2
U12-926115R	-7	-3	.	2	-2
Date Planted	5/15	5/14	5/19	5/17	5/20
Days To Mature	148.0	142.0	.	127.0	124.0

Uniform Test II Roundup-Ready, 2014

Lodging (score)

Strain	Mean 8 Tests	Urbana IL	Lafayette IN	Ingham MI	Lenawee MI	Lamberton MN	Westbrook MN	Hooper NE	Phillips NE
U06-814223R (II)	1.3	1.3	1.2	2.5	1.0	1.0	1.0	1.3	1.3
AG2031 (E)	1.5	1.5	1.2	2.5	1.0	2.0	1.0	1.0	1.8
AG2632	1.6	2.0	1.2	3.0	1.5	1.0	1.0	1.8	1.0
NEX2905A0R (L)	1.7	2.8	1.7	2.5	1.5	1.0	1.0	1.3	1.8
M09-877021	2.1	3.3	2.0	3.5	2.5	1.0	1.0	1.3	2.5
M09-877026	1.8	2.8	1.3	3.0	2.0	1.0	1.0	1.5	1.5
U11-607166R	1.8	2.3	1.5	3.5	3.0	1.0	1.0	1.0	1.3
U12-903112R	1.6	1.3	1.5	2.0	2.0	1.0	2.0	1.3	1.5
U12-909109R	1.3	1.3	1.3	2.5	1.0	1.0	1.0	1.3	1.0
U12-917123R	2.0	2.8	1.3	4.0	2.5	1.0	1.0	1.0	2.0
U12-920124R	1.7	2.3	1.5	2.5	2.0	1.0	2.0	1.0	1.0
U12-923116R	1.9	2.5	1.8	3.5	2.0	1.0	1.0	1.5	2.3
U12-924100R	2.2	3.3	2.3	3.5	2.0	1.0	2.0	1.0	2.5
U12-924117R	1.2	1.5	1.2	1.5	1.0	1.0	1.0	1.3	1.0
U12-926115R	1.3	1.3	1.2	1.5	1.0	1.0	2.0	1.3	1.0

Plant Height (inches)

Strain	Mean 6 Tests	Urbana IL	Lafayette IN	Ingham MI	Lenawee MI	Westbrook MN	Phillips NE
U06-814223R (II)	31.5	35.0	30.0	29.0	34.0	28.0	33.0
AG2031 (E)	34.9	36.0	34.3	33.0	36.0	33.0	37.3
AG2632	35.5	39.0	33.0	32.0	35.0	35.0	39.3
NEX2905A0R (L)	37.5	39.0	34.7	35.0	39.0	38.0	39.5
M09-877021	38.5	40.0	36.3	36.0	42.0	36.0	40.5
M09-877026	37.6	39.0	37.3	36.0	39.0	36.0	38.3
U11-607166R	34.0	36.0	30.3	30.0	38.0	31.0	38.8
U12-903112R	32.3	32.0	29.3	31.0	37.0	31.0	33.8
U12-909109R	32.3	32.0	29.3	31.0	35.0	33.0	33.5
U12-917123R	41.3	42.0	38.7	45.0	41.0	37.0	44.0
U12-920124R	36.2	37.0	34.3	28.0	41.0	38.0	38.8
U12-923116R	35.7	37.0	35.7	33.0	37.0	34.0	37.8
U12-924100R	36.6	36.0	33.3	37.0	41.0	35.0	37.5
U12-924117R	35.8	38.0	34.0	33.0	38.0	35.0	37.0
U12-926115R	33.8	34.0	33.7	33.0	36.0	33.0	33.0

Uniform Test II Roundup-Ready, 2014

Seed Quality (score)

Strain	Mean 6 Tests	Urbana IL	Lafayette IN	Lamberton MN	Waseca MN	Westbrook MN	Phillips NE
U06-814223R (II)	1.5	2.0	1.0	1.0	2.0	1.0	2.0
AG2031 (E)	1.8	3.0	1.0	1.0	2.0	2.0	2.0
AG2632	1.7	2.0	2.0	1.0	2.0	2.0	1.0
NEX2905A0R (L)	1.3	1.0	1.0	1.0	2.0	2.0	1.0
M09-877021	2.0	2.0	2.0	2.0	2.0	2.0	2.0
M09-877026	2.2	3.0	2.0	2.0	2.0	2.0	2.0
U11-607166R	2.0	2.0	1.0	1.0	3.0	3.0	2.0
U12-903112R	1.5	1.0	1.0	2.0	2.0	2.0	1.0
U12-909109R	1.8	2.0	1.0	1.0	3.0	3.0	1.0
U12-917123R	1.5	1.0	1.0	1.0	2.0	2.0	2.0
U12-920124R	2.0	2.0	1.0	2.0	2.0	3.0	2.0
U12-923116R	1.8	1.0	2.0	2.0	2.0	2.0	2.0
U12-924100R	1.7	1.0	1.0	2.0	2.0	2.0	2.0
U12-924117R	1.7	1.0	2.0	1.0	2.0	3.0	1.0
U12-926115R	1.7	2.0	1.0	1.0	2.0	2.0	2.0

Seed Size (g/100)

Strain	Mean 7 Tests	Urbana IL	Lafayette IN	Ingham MI	Lamberton MN	Waseca MN	Westbrook MN	Phillips NE
U06-814223R (II)	15.1	14.5	14.8	13.6	15.2	15	14.6	17.8
AG2031 (E)	17.6	18.4	16.4	17.3	17.9	17.6	15.8	19.6
AG2632	15.9	17.4	15.0	16.3	17	14.5	15.5	15.6
NEX2905A0R (L)	13.3	14.5	12.3	13.2	13.0	11.0	13.7	15.5
M09-877021	16.5	17.5	14.9	16.4	18.0	14.6	14.8	19.4
M09-877026	16.0	17.1	14.8	16.3	15.0	15.2	15.7	18.0
U11-607166R	15.1	16.6	12.2	14.5	17.0	12.9	13.8	18.5
U12-903112R	13.7	14.6	11.8	13.5	14.0	12.4	12.8	17.1
U12-909109R	15.2	16.8	14.1	15.4	15.0	13.4	13.5	18.5
U12-917123R	11.4	14.1	11.5	13.5	1.0	11.6	11.9	16.3
U12-920124R	14.3	16.3	12.7	12.8	13.0	14.0	15.1	16.1
U12-923116R	15.2	16.1	13.1	15.0	16.1	14.7	13.6	18.1
U12-924100R	14.5	16.2	13.5	14.3	12.0	14.4	13.0	17.9
U12-924117R	14.6	16.1	12.2	13.9	15.0	15.4	12.0	17.3
U12-926115R	13.2	14.1	11.8	12.8	13.0	13.1	12.6	15.3

Uniform Test II Roundup-Ready, 2014

Protein (%)

Strain	Mean 6 Tests	Urbana IL	Lafayette IN	Ingham MI	Lamberton MN	Westbrook MN	Phillips NE
U06-814223R (II)	34.2	34.4	33.7	33.9	34.1	34.7	34.4
AG2031 (E)	35.9	36.0	35.6	35.8	36.5	35.7	35.8
AG2632	35.7	35.8	36.4	34.7	36.5	35.8	34.8
NEX2905A0R (L)	34.4	34.7	34.8	34.6	34.3	33.7	34.3
M09-877021	36.2	37.1	36.1	36.8	35.5	35.3	36.4
M09-877026	35.7	36.1	35.8	36.1	35.3	35.4	35.2
U11-607166R	34.6	34.8	35.0	34.6	33.9	34.4	34.6
U12-903112R	34.4	34.5	34.7	34.4	34.1	34.4	34.2
U12-909109R	34.2	34.6	34.1	35.4	33.5	34.3	33.6
U12-917123R	34.8	35.0	34.6	34.5	34.5	35.0	35.5
U12-920124R	34.9	35.1	34.6	34.8	35.3	34.9	34.7
U12-923116R	35.1	35.2	35.3	34.9	35.4	34.8	34.9
U12-924100R	35.3	36.0	35.3	35.6	35.6	33.9	35.1
U12-924117R	34.7	34.7	35.1	35.0	34.7	34.2	34.3
U12-926115R	35.2	35.0	35.3	35.7	35.1	34.7	35.1

Oil (%)

Strain	Mean 6 Tests	Urbana IL	Lafayette IN	Ingham MI	Lamberton MN	Westbrook MN	Phillips NE
U06-814223R (II)	19.5	20.1	20.4	18.7	19.2	18.8	19.8
AG2031 (E)	18.7	19.6	19.4	18.0	17.9	18.3	18.8
AG2632	18.5	19.6	18.8	17.4	18.0	18.2	18.7
NEX2905A0R (L)	18.6	19.8	19.0	17.5	18.0	18.0	19.2
M09-877021	18.6	19.4	19.1	17.8	18.7	18.4	18.4
M09-877026	18.4	19.3	18.7	17.5	18.3	18.1	18.8
U11-607166R	19.1	20.7	19.7	18.1	18.7	17.9	19.5
U12-903112R	19.0	20.5	19.5	18.4	18.7	17.9	19.1
U12-909109R	19.0	20.3	19.9	18.1	18.5	17.8	19.4
U12-917123R	18.6	20.0	19.1	17.8	18.2	17.7	18.7
U12-920124R	18.6	19.9	19.3	17.6	18.0	18.2	18.9
U12-923116R	18.9	20.1	19.5	18.2	18.5	17.8	19.0
U12-924100R	18.8	20.0	19.8	17.8	18.3	17.8	19.2
U12-924117R	18.5	20.0	18.9	17.1	18.2	18.0	18.9
U12-926115R	19.0	20.0	19.4	18.1	18.6	18.4	19.5

Uniform Test III Roundup-Ready, 2014

Ent.	Strain	Parentage	Seed Source	Previous Testing	Gen. Comp.
1.	U03-827101 (SCN)	na	Graef	6.0	
2.	NEX2905A0R (E)	na	Graef	7.0	
3.	AG3432	new	Monsanto	new	
4.	AG3832	new	Monsanto	new	
5.	LD11-13479R2a	(LD04-8782 x Monsanto RR2) x LDX08-210a	Diers	new	F4
6.	LD11-13494R2a	(LD04-8782 x Monsanto RR2) x LDX08-210a	Diers	new	F4
7.	LD11-13523R2a	(LD04-8782 x Monsanto RR2) x LDX08-210a	Diers	new	F4
8.	LD11-13677R2	LD02- 4485 x (LD00-3309 x Monsanto RR2)	Diers	new	F4
9.	LD11-13802R2	Syngenta 03JR313108 x (LD00-3309 x Monsanto RR2)	Diers	new	F4
10.	LD11-14102R	(Syngenta 03JR313108 x (LD00-3309 x RR2)) x LD06-7620	Diers	1.0	F5
11.	LD11-14362R	LD00-3309(2) x MonsantoRR2	Diers	1.0	F5
12.	U11-607174R	U07-338254R X U07-135478R	Graef	13UTII-RR	F4
13.	U12-916110R	U07-135601R x U07-237991R	Graef	new	F5
14.	U12-917111R	U07-135601R x U08-932024R	Graef	new	F5

Descriptive Code and Unique Traits

Strain	Descriptive Code	Unique Traits
U03-827101 (SCN)	WTBDYBlI	RR, SCN
NEX2905A0R (E)	PGBDYIbD	Det.
AG3432	PGBDYIbI	
AG3832	PGBDYIbI	RR, SCN
LD11-13479R2a	WLtTDYBlI	RR2, SCN, Rag 2
LD11-13494R2a	WLtTDYBlI	RR2, SCN, Rag 2
LD11-13523R2a	WTTDYBlI	RR2, SCN, Rag 2
LD11-13677R2	WTBDYBlI	RR2, SCN
LD11-13802R2	WTBDYBrI	RR2, SCN
LD11-14102R	WLtBDYBlI	RR2, SCN
LD11-14362R	WTBDYBlI	RR2, SCN
U11-607174R	PGTDYIbD	SCN LR, NR
U12-916110R	PGTDYIbI	
U12-917111R	PGBDYIbI	

Uniform Test III Roundup-Ready, 2014

Regional Summary

	Yield	Rank	Maturity	Lodging	Plant Height	Seed Quality	Seed Size	Composition	
								Protein	Oil
No. of Tests	7	7	7	7	7	7	7	5	5
Strain	bu/a	No.	Date	Score	In	Score	g/100	(%)	(%)
U03-827101 (SCN)	61.0	6	9/23	1.9	33.3	2.0	17.1	36.0	18.9
NEX2905A0R (E)	54.8	14	-4.6	1.7	32.5	2.1	13.6	34.1	19.8
AG3432	68.2	1	-0.1	1.8	33.9	2.4	16.1	35.5	18.8
AG3832	67.9	2	4.0	1.6	31.5	2.3	17.5	35.5	18.6
LD11-13479R2a	57.2	13	-1.4	1.2	26.6	2.1	14.7	35.8	18.6
LD11-13494R2a	59.1	10	-2.5	1.3	26.9	2.4	14.0	34.8	18.6
LD11-13523R2a	58.0	12	-0.9	1.5	29.4	2.2	13.7	34.6	18.7
LD11-13677R2	59.0	11	-4.2	1.3	28.5	2.3	15.9	34.1	19.6
LD11-13802R2	63.6	5	-0.6	2.1	33.1	2.1	15.9	35.7	19.6
LD11-14102R	67.6	3	3.4	1.7	32.7	2.3	16.8	35.2	19.5
LD11-14362R	67.5	4	4.6	2.1	34.0	2.3	15.4	35.2	18.7
U11-607174R	60.8	7	-3.8	1.5	28.8	2.1	15.9	35.2	19.7
U12-916110R	60.3	8	-1.6	1.9	34.7	2.1	14.4	35.3	19.7
U12-917111R	59.3	9	-4.2	1.7	34.6	2.1	14.7	34.8	19.9

124.4 Days After Planting

2013-2014 2-Year Mean

	Yield	Rank	Maturity	Lodging	Plant Height	Seed Quality	Seed Size	Composition	
								Protein	Oil
No. of Tests	14	14	15	14	13	14	16	5†	5†
Strain	bu/a	No.	Date	Score	In	Score	g/100	(%)	(%)
U03-827101 (SCN)	61.5	3	9/24	1.6	32.2	1.9	16.8	36.2	18.9
NEX2905A0R (E)	56.3	4	-4.7	1.4	29.1	2.1	13.5	34.2	19.9
LD11-14102R	69.7	1	4.4	1.5	32.0	2.4	16.5	35.3	19.6
LD11-14362R	67.9	2	5.0	1.7	33.1	2.3	15.0	35.3	18.7

124.8 Days After Planting

Uniform Test III Roundup-Ready, 2014

Yield (bu/a)

Strain	Mean 7 Tests	Urbana IL	Butlerville IN*	Lafayette IN	Novelty MO	Portageville MO (Clay)	Portageville MO (Loam)	Lincoln NE	Wymore NE
U03-827101 (SCN)	61.0	67.2	66.2	61.6	55.3	50.2	57.1	76.9	58.6
NEX2905A0R (E)	54.8	59.2	59.5	51.5	57.8	35.2	56.9	71.0	51.9
AG3432	68.2	81.8	49.7	61.8	62.8	51.9	63.9	84.4	70.6
AG3832	67.9	71.8	62.2	70.4	62.4	56.5	65.5	83.2	65.5
LD11-13479R2a	57.2	65.8	58.6	61.3	44.5	33.5	62.9	76.3	56.0
LD11-13494R2a	59.1	72.8	56.4	61.5	50.1	35.4	58.3	80.1	55.4
LD11-13523R2a	58.0	65.7	59.1	60.4	43.3	39.4	58.2	82.3	56.8
LD11-13677R2	59.0	64.6	61.9	62.0	59.3	36.6	55.6	77.4	57.8
LD11-13802R2	63.6	77.1	75.3	57.2	53.0	51.1	65.4	78.3	63.3
LD11-14102R	67.6	79.0	65.2	64.2	64.7	47.7	77.7	72.7	66.9
LD11-14362R	67.5	76.0	60.0	67.0	57.5	55.3	71.8	78.8	65.8
U11-607174R	60.8	67.9	65.8	54.8	56.9	41.0	57.6	88.4	59.1
U12-916110R	60.3	72.1	48.2	51.9	43.7	51.8	64.2	73.3	64.8
U12-917111R	59.3	71.9	67.3	55.2	53.0	51.0	59.3	75.5	49.2
Location Mean		70.9	61.1	60.1	54.6	45.5	62.5	78.5	60.1
C.V. (%)		7.3	15.6	14.5	10.6	10.3	8.3	9.1	7.5
L.S.D. (5%)		11.1	11.9	14.0	9.7	9.5	10.5	17.7	11.1
Row Sp (In.)		30	30	30	30	30	30	30	30
Rows/Plot		4	4	4	4	4	4	4	4
Reps		2	3	3	3	3	3	2	2

*Data not included in mean

Uniform Test III Roundup-Ready, 2014

Yield Rank

Strain	Mean 7 Tests	Urbana IL	Butlerville IN	Lafayette IN	Novelty MO	Portageville MO (Clay)	Portageville MO (Loam)	Lincoln NE	Wymore NE
U03-827101 (SCN)	6	10	3	6	8	7	12	9	8
NEX2905A0R (E)	14	14	9	14	5	13	13	14	13
AG3432	1	1	13	5	2	3	6	2	1
AG3832	2	8	6	1	3	1	3	3	4
LD11-13479R2a	13	11	11	8	12	14	7	10	11
LD11-13494R2a	10	5	12	7	11	12	9	5	12
LD11-13523R2a	12	12	10	9	14	10	10	4	10
LD11-13677R2	11	13	7	4	4	11	14	8	9
LD11-13802R2	5	3	1	10	9	5	4	7	6
LD11-14102R	3	2	5	3	1	8	1	13	2
LD11-14362R	4	4	8	2	6	2	2	6	3
U11-607174R	7	9	4	12	7	9	11	1	7
U12-916110R	8	6	14	13	13	4	5	12	5
U12-917111R	9	7	2	11	9	6	8	11	14

Maturity (Date)

Strain	Mean 7 Tests	Urbana IL	Butlerville IN	Lafayette IN	Novelty MO	Portageville MO (Clay)	Portageville MO (Loam)	Lincoln NE	Wymore NE
U03-827101 (SCN)	9/23	9/29	9/26	10/2	9/21	9/11	9/11	10/4	.
NEX2905A0R (E)	-4.6	-7.0	0.2	-6.0	-2.7	0.0	-7.0	-10.0	.
AG3432	-0.1	1.0	-2.5	-0.7	2.3	1.0	1.0	-3.0	.
AG3832	4.0	3.0	0.0	4.7	6.3	7.0	6.0	1.0	.
LD11-13479R2a	-1.4	-2.0	0.2	-2.3	0.3	-1.0	1.0	-6.0	.
LD11-13494R2a	-2.5	-3.0	0.5	-2.3	-0.7	-2.0	-3.0	-7.0	.
LD11-13523R2a	-0.9	-1.0	-1.5	-2.7	1.0	0.0	0.0	-2.0	.
LD11-13677R2	-4.2	-4.0	-1.5	-4.7	-0.3	-1.0	-7.0	-11.0	.
LD11-13802R2	-0.6	-1.0	-1.0	-2.0	3.0	2.0	0.0	-5.0	.
LD11-14102R	3.4	1.0	0.8	7.0	7.0	2.0	6.0	0.0	.
LD11-14362R	4.6	4.0	-0.5	8.3	11.7	3.0	6.0	0.0	.
U11-607174R	-3.8	-5.0	0.5	-3.7	-3.7	-1.0	-7.0	-7.0	.
U12-916110R	-1.6	-3.0	-2.5	-2.3	-3.7	1.0	0.0	-1.0	.
U12-917111R	-4.2	-5.0	-1.5	-3.0	-2.7	-2.0	-7.0	-8.0	.
Date Planted	5/22	5/27	5/28	5/26	5/19	5/6	5/19	5/29	5/28
Days To Mature	124.4	125.0	121.0	129.0	125.0	128.0	115.0	128.0	.

Uniform Test III Roundup-Ready, 2014

Lodging (score)

Strain	Mean 7 Tests	Urbana IL	Butlerville IN*	Lafayette IN	Novelty MO	Portageville MO (Clay)	Portageville MO (Loam)	Lincoln NE
U03-827101 (SCN)	1.9	1.8	1.2	2.0	2.0	2.0	2.0	2.0
NEX2905A0R (E)	1.7	2.0	1.2	1.7	2.2	1.0	2.0	2.0
AG3432	1.8	2.3	1.2	1.2	1.8	2.0	2.0	2.0
AG3832	1.6	1.5	1.0	1.0	1.5	2.0	2.0	2.0
LD11-13479R2a	1.2	1.3	1.0	1.2	1.7	1.0	2.0	0.5
LD11-13494R2a	1.3	1.5	1.0	1.0	1.5	1.0	2.0	1.0
LD11-13523R2a	1.5	1.3	1.0	1.5	1.8	1.0	2.0	2.0
LD11-13677R2	1.3	1.3	1.0	1.0	1.5	1.0	2.0	1.0
LD11-13802R2	2.1	2.5	1.0	1.5	2.5	2.0	2.0	3.5
LD11-14102R	1.7	2.0	1.0	1.0	2.2	2.0	2.0	2.0
LD11-14362R	2.1	2.5	1.2	1.3	2.7	2.0	2.0	3.0
U11-607174R	1.5	2.5	1.0	1.5	1.8	1.0	2.0	1.0
U12-916110R	1.9	2.0	1.0	1.3	2.2	2.0	2.0	2.5
U12-917111R	1.7	1.8	1.0	1.2	2.0	2.0	2.0	2.0

Plant Height (inches)

Strain	Mean 7 Tests	Urbana IL	Butlerville IN	Lafayette IN	Novelty MO	Portageville MO (Clay)	Portageville MO (Loam)	Lincoln NE
U03-827101 (SCN)	33.3	37.0	29.5	37.7	30.4	22.0	33.0	43.5
NEX2905A0R (E)	32.5	39.0	28.5	38.0	27.8	20.0	32.0	42.5
AG3432	33.9	44.0	26.0	35.7	30.8	22.0	33.0	45.5
AG3832	31.5	37.0	25.5	35.7	29.1	21.0	33.0	39.0
LD11-13479R2a	26.6	29.0	27.3	29.7	22.9	17.0	25.0	35.0
LD11-13494R2a	26.9	32.0	25.7	31.0	23.2	15.0	27.0	34.5
LD11-13523R2a	29.4	33.0	29.5	35.7	25.8	16.0	28.0	37.5
LD11-13677R2	28.5	34.0	25.0	32.3	26.4	18.0	28.0	36.0
LD11-13802R2	33.1	38.0	26.0	35.3	28.0	23.0	37.0	44.5
LD11-14102R	32.7	36.0	24.7	37.0	30.4	23.0	38.0	39.5
LD11-14362R	34.0	37.0	25.3	38.7	34.2	24.0	37.0	41.5
U11-607174R	28.8	35.0	28.3	30.7	26.9	17.0	27.0	37.0
U12-916110R	34.7	41.0	27.7	39.3	30.1	22.0	37.0	45.5
U12-917111R	34.6	39.0	32.7	36.7	31.6	21.0	35.0	46.5

Uniform Test III Roundup-Ready, 2014

Seed Quality (score)

Strain	Mean 7 Tests	Urbana IL	Butlerville IN*	Lafayette IN	Novelty MO	Portageville MO (Clay)	Portageville MO (Loam)	Lincoln NE
U03-827101 (SCN)	2.0	1.0	1.0	1.0	2.0	3.7	3.3	2.0
NEX2905A0R (E)	2.1	2.0	1.0	1.0	1.5	4.0	3.3	2.0
AG3432	2.4	2.0	1.0	1.0	1.5	5.0	4.0	2.0
AG3832	2.3	2.0	1.0	1.0	1.5	4.7	3.7	2.0
LD11-13479R2a	2.1	1.0	1.0	2.0	2.0	3.7	3.3	2.0
LD11-13494R2a	2.4	2.0	1.0	1.0	3.0	4.3	3.7	2.0
LD11-13523R2a	2.2	2.0	1.0	1.0	2.0	4.0	3.7	2.0
LD11-13677R2	2.3	2.0	1.0	1.0	3.0	4.0	3.3	2.0
LD11-13802R2	2.1	2.0	1.0	1.0	1.5	3.7	3.7	2.0
LD11-14102R	2.3	2.0	1.0	1.0	2.0	4.3	3.7	2.0
LD11-14362R	2.3	2.0	1.0	1.0	1.5	4.3	4.0	2.0
U11-607174R	2.1	1.0	1.0	1.0	2.0	4.0	4.0	2.0
U12-916110R	2.1	1.0	1.0	2.0	1.5	3.3	3.7	2.0
U12-917111R	2.1	1.0	1.0	1.0	2.0	4.3	3.3	2.0

Seed Size (g/100)

Strain	Mean 7 Tests	Urbana IL	Butlerville IN	Lafayette IN	Novelty MO	Portageville MO (Clay)	Portageville MO (Loam)	Lincoln NE
U03-827101 (SCN)	17.1	18.2	16.8	14.1	18.2	18.4	16.1	17.6
NEX2905A0R (E)	13.6	14.3	11.9	11.1	14.5	16.3	12.6	14.6
AG3432	16.1	17.6	15.3	12.8	15.9	18.9	14.6	17.6
AG3832	17.5	18.8	17.8	15.2	17.5	18.0	17.0	18.1
LD11-13479R2a	14.7	15.5	15.0	12.7	14.7	15.0	14.2	16.1
LD11-13494R2a	14.0	14.0	14.4	11.7	13.9	15.4	13.5	15.0
LD11-13523R2a	13.7	14.5	14.8	11.4	12.4	14.8	13.2	15.0
LD11-13677R2	15.9	16.9	15.8	14.4	17.3	16.5	14.4	16.3
LD11-13802R2	15.9	17.5	15.5	12.8	17.1	17.2	14.4	17.0
LD11-14102R	16.8	18.0	15.6	14.8	17.4	18.0	16.0	18.0
LD11-14362R	15.4	15.9	15.4	13	14.5	16.5	15.2	17.0
U11-607174R	15.9	17.2	15.7	12.8	15.9	18.6	15.1	16.3
U12-916110R	14.4	16.3	13.8	11.5	12.5	16.2	14.0	16.5
U12-917111R	14.7	15.9	14.6	12.6	13.0	16.5	14.3	15.8

Uniform Test III Roundup-Ready, 2014

Protein (%)

Strain	Mean 5 Tests	Urbana IL	Lafayette IN	Novelty MO	Portageville MO (Clay)	Lincoln NE
U03-827101 (SCN)	36.0	35.7	35.5	34.9	37.3	36.3
NEX2905A0R (E)	34.1	33.1	34.5	33.0	34.7	35.0
AG3432	35.5	35.2	35.7	33.8	36.3	36.4
AG3832	35.5	34.9	35.6	34.6	36.1	36.0
LD11-13479R2a	35.8	34.8	34.6	35.9	37.1	36.5
LD11-13494R2a	34.8	33.3	35.3	33.9	35.8	35.4
LD11-13523R2a	34.6	34.2	34.3	33.6	35.5	35.3
LD11-13677R2	34.1	33.8	34.0	33.7	34.3	34.6
LD11-13802R2	35.7	34.8	34.7	35.4	37.1	36.3
LD11-14102R	35.2	34.6	35.4	34.7	35.5	35.8
LD11-14362R	35.2	34.6	35.4	33.8	36.1	36.0
U11-607174R	35.2	34.6	35.0	34.3	36.9	35.5
U12-916110R	35.3	34.6	36.1	34.4	35.0	36.2
U12-917111R	34.8	34.3	35.1	34.4	34.8	35.3

Oil (%)

Strain	Mean 5 Tests	Urbana IL	Lafayette IN	Novelty MO	Portageville MO (Clay)	Lincoln NE
U03-827101 (SCN)	18.9	18.8	18.6	19.7	19.3	18.3
NEX2905A0R (E)	19.8	20.4	18.9	20.1	20.3	19.0
AG3432	18.8	18.9	18.4	19.6	19.4	18.0
AG3832	18.6	18.9	18.2	19.2	19.0	17.8
LD11-13479R2a	18.6	19.0	18.8	18.8	18.6	17.9
LD11-13494R2a	18.6	18.8	18.2	19.3	18.5	18.0
LD11-13523R2a	18.7	18.8	18.6	19.3	18.5	18.2
LD11-13677R2	19.6	19.6	19.6	19.9	20.3	18.7
LD11-13802R2	19.6	19.9	19.5	19.8	20.0	18.9
LD11-14102R	19.5	19.6	18.9	19.7	20.2	19.1
LD11-14362R	18.7	18.8	17.8	20.5	18.9	17.6
U11-607174R	19.7	20.5	19.5	18.9	20.4	19.3
U12-916110R	19.7	20.1	18.8	20.3	20.6	18.8
U12-917111R	19.9	20.3	19.4	19.8	20.8	19.0

Uniform Test IV Roundup-Ready, 2014

Ent.	Strain	Parentage	Seed Source	Previous Testing	Gen. Comp.	Unique Traits
1.	AG4032	na	Monsanto	new		
2.	AG3832	na	Monsanto	new		RR, SCN
3.	AG4232	na	Monsanto	1.0		RR, SCN
4.	LD11-13948R	LD02-5124W x (LD00-3309 x MonsantoRR2)	Diers	1.0	F5	RR2, SCN
5.	S10-6090RR	S05-11482 x RR2-12996	Scaboo	1.0	F5	RR2, SCN
6.	SA11-9446	S06-10572RR x S08-115	Scaboo	new	F5	RR1
7.	SA11-9478	S06-10572RR x S08-115	Scaboo	new	F5	RR1
8.	SA11-10168	S04-20912RR x S08-095	Scaboo	new	F5	RR1
9.	SA11-10182	S04-20912RR x S08-095	Scaboo	new	F5	RR1

Descriptive Code

Strain	Descriptive Code
AG4032	PGBDYIbI
AG3832	PGBDYGI
AG4232	PTTDYBlI
LD11-13948R	PTBDYBlI
S10-6090RR	PTTDYBlI
SA11-9446	PGBDYIbI
SA11-9478	WGBDYBfI
SA11-10168	PGTDYIbI
SA11-10182	PGTDYIbI

Uniform Test IV Roundup-Ready, 2014

Regional Summary

	Yield	Rank	Maturity	Lodging	Plant Height	Seed Quality	Seed Size	Composition	
								Protein	Oil
No. of Tests	7	7	7	7	7	7	7	6	6
Strain	bu/a	No.	Date	Score	In	Score	g/100	(%)	(%)
AG4032	62.2	1	9/30	1.8	35.9	2.3	18.5	35.6	19.0
AG3832	56.2	8	-2.6	1.5	30.7	2.2	17.1	35.5	18.6
AG4232	59.1	4	5.2	2.2	36.8	2.3	14.2	34.6	18.6
LD11-13948R	60.7	2	-0.1	1.9	35.6	2.0	17.8	36.2	19.1
S10-6090RR	57.2	6	0.4	2.8	38.8	1.9	12.8	35.1	18.2
SA11-9446	56.3	7	1.9	2.3	34.4	2.1	15.1	35.1	18.6
SA11-9478	60.1	3	2.2	2.4	39.4	1.8	14.0	34.9	18.8
SA11-10168	58.8	5	-0.5	2.2	37.8	1.9	15.7	35.3	18.5
SA11-10182	54.9	9	-1.0	2.0	36.1	1.9	14.5	35.1	17.9

131.9 Days After Planting

2013-2014 2-Year Mean

	Yield	Rank	Maturity	Lodging	Plant Height	Seed Quality	Seed Size	Composition	
								Protein	Oil
No. of Tests	17	17	18	19	19	19	19	7†	7†
Strain	bu/a	No.	Date	Score	In	Score	g/100	(%)	(%)
			9/30*						
AG4232	62.7	1	3.8	2.0	36.0	2.6	14.6	34.7	19.3
LD11-13948R	60.9	2	-1.1	1.7	35.2	2.2	17.8	36.1	19.6
S10-6090RR	57.9	3	-0.1	2.5	37.9	1.9	13.9	35.6	18.5

*Average date of maturity of AG4032 (2014) and AG4005 (2013)

130.2 Days After Planting

Uniform Test IV Roundup-Ready, 2014

Yield (bu/a)

Strain	Mean 7 Tests	Brownstown IL	Urbana IL	Butlerville IN	Lafayette IN	Novelty MO	Portageville MO (Clay)	Portageville MO (Loam)
AG4032	62.2	66.5	78.0	78.6	49.6	71.4	70.4	83.0
AG3832	56.2	62.4	66.1	76.3	54.5	71.0	55.3	64.3
AG4232	59.1	66.0	74.7	74.7	52.8	56.2	67.4	80.7
LD11-13948R	60.7	65.0	68.8	76.9	60.5	75.1	70.3	69.2
S10-6090RR	57.2	64.9	67.8	65.7	50.0	65.1	68.5	75.9
SA11-9446	56.3	55.4	63.2	71.8	52.8	56.4	71.4	79.5
SA11-9478	60.1	64.1	69.2	74.8	53.8	60.0	74.6	84.1
SA11-10168	58.8	60.9	65.6	70.3	49.4	70.8	73.3	79.9
SA11-10182	54.9	61.8	64.8	60.1	47.4	58.1	69.0	77.9
Location Mean		63.0	68.7	72.1	52.3	64.9	68.9	77.2
C.V. (%)		4.8	5.4	9.4	13.9	10.1	7.08	5.2
L.S.D. (5%)		6.9	8.5	7.5	7.8	11.3	10.29	8.46
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

Yield Rank

Strain	Yield Rank 7 Tests	Brownstown IL	Urbana IL	Butlerville IN	Lafayette IN	Novelty MO	Portageville MO (Clay)	Portageville MO (Loam)
AG4032	1	1	1	1	7	2	4	2
AG3832	8	6	6	3	2	3	9	9
AG4232	4	2	2	5	4	9	8	3
LD11-13948R	2	3	4	2	1	1	5	8
S10-6090RR	6	4	5	8	6	5	7	7
SA11-9446	7	9	9	6	5	8	3	5
SA11-9478	3	5	3	4	3	6	1	1
SA11-10168	5	8	7	7	8	4	2	4
SA11-10182	9	7	8	9	9	7	6	6

Uniform Test IV Roundup-Ready, 2014

Maturity (date)

Strain	Mean 7 Tests	Brownstown IL	Urbana IL	Butlerville IN	Lafayette IN	Novelty MO	Portageville MO (Clay)	Portageville MO (Loam)
AG4032	9/30	10/3	10/3	9/30	10/15	10/2	9/19	9/19
AG3832	-2.6	-2.0	0.0	-2.7	-7.7	-2.7	-1.0	-2.0
AG4232	5.2	1.0	9.0	5.3	5.7	2.3	7.0	6.0
LD11-13948R	-0.1	-1.0	-1.0	2.3	-0.7	0.7	0.0	-1.0
S10-6090RR	0.4	-1.0	5.0	1.7	-4.7	2.7	-1.0	0.0
SA11-9446	1.9	-2.0	5.0	2.3	-1.0	1.0	3.0	5.0
SA11-9478	2.2	0.0	3.0	2.0	2.0	0.3	2.0	6.0
SA11-10168	-0.5	-3.0	-1.0	1.7	-3.7	1.3	0.0	1.0
SA11-10182	-1.0	-1.0	-1.0	-0.7	-7.0	0.7	1.0	1.0
Date Planted	5/21	5/23	5/27	5/28	5/26	5/20	5/6	5/19
Days To Mature	131.9	133.0	129.0	125.0	142.0	135.0	136.0	123.0

Lodging (score)

Strain	Mean 7 Tests	Brownstown IL	Urbana IL	Butlerville IN	Lafayette IN	Novelty MO	Portageville MO (Clay)	Portageville MO (Loam)
AG4032	1.8	1.8	2.0	1.0	1.0	1.8	2.0	3.0
AG3832	1.5	1.5	1.5	1.0	1.3	1.5	2.0	2.0
AG4232	2.2	2.8	2.5	1.3	1.0	2.5	2.0	3.0
LD11-13948R	1.9	2.3	1.8	1.2	1.5	1.8	2.0	3.0
S10-6090RR	2.8	3.3	2.8	2.3	2.0	3.5	3.0	3.0
SA11-9446	2.3	2.0	2.3	1.8	2.5	2.8	2.0	3.0
SA11-9478	2.4	3.0	3.3	1.7	1.5	2.5	2.0	3.0
SA11-10168	2.2	2.5	2.5	1.7	1.0	2.7	2.0	3.0
SA11-10182	2.0	2.0	2.0	1.3	1.2	2.2	2.0	3.0

Uniform Test IV Roundup-Ready, 2014

Plant Height (inches)

Strain	Mean 7 Tests	Brownstown IL	Urbana IL	Butlerville IN	Lafayette IN	Novelty MO	Portageville MO (Clay)	Portageville MO (Loam)
AG4032	35.9	33.0	39.0	36.0	41.7	37.5	26.0	38.0
AG3832	30.7	28.0	34.0	30.7	36.7	30.6	22.0	33.0
AG4232	36.8	34.0	38.0	37.7	42.3	39.4	28.0	38.0
LD11-13948R	35.6	33.0	35.0	34.7	43.3	37.1	30.0	36.0
S10-6090RR	38.8	35.0	37.0	38.0	45.0	42.8	32.0	42.0
SA11-9446	34.4	32.0	35.0	33.0	41.7	35.0	27.0	37.0
SA11-9478	39.4	34.0	42.0	40.3	46.3	39.2	32.0	42.0
SA11-10168	37.8	33.0	39.0	36.3	46.3	38.1	28.0	44.0
SA11-10182	36.1	33.0	35.0	35.3	43.0	34.4	27.0	45.0

Seed Quality (score)

Strain	Mean 7 Tests	Brownstown IL	Urbana IL	Butlerville IN	Lafayette IN	Novelty MO	Portageville MO (Clay)	Portageville MO (Loam)
AG4032	2.3	3.0	1.0	1.0	2.0	1.5	3.7	4.0
AG3832	2.2	2.0	2.0	1.0	2.0	1.5	3.3	3.3
AG4232	2.3	2.0	2.0	1.0	2.0	1.5	4.3	3.3
LD11-13948R	2.0	2.0	1.0	1.0	2.0	1.5	3.7	3.0
S10-6090RR	1.9	2.0	1.0	1.0	1.0	1.5	4.0	2.7
SA11-9446	2.1	2.0	2.0	1.0	1.0	1.5	4.0	3.3
SA11-9478	1.8	2.0	1.0	1.0	1.0	1.5	3.0	3.0
SA11-10168	1.9	2.0	1.0	1.0	1.0	1.5	3.7	3.3
SA11-10182	1.9	2.0	1.0	1.0	1.0	1.5	3.7	3.3

Seed Weight (g/100)

Strain	Mean 7 Tests	Brownstown IL	Urbana IL	Butlerville IN	Lafayette IN	Novelty MO	Portageville MO (Clay)	Portageville MO (Loam)
AG4032	18.5	19.2	19.7	18.9	15.3	17.0	20.2	19.3
AG3832	17.1	16.1	18.8	16.7	14.0	18.3	18.1	17.9
AG4232	14.2	14.1	15.7	13.5	13.0	14.0	15.2	13.8
LD11-13948R	17.8	18.0	18.5	17.1	15.9	18.6	19.7	16.9
S10-6090RR	12.8	13.0	14.0	12.2	11.5	15.5	14.7	9.0
SA11-9446	15.1	14.7	16.9	15.4	12.4	14.0	17.3	15.3
SA11-9478	14.0	13.7	13.8	14.2	11.7	13.8	16.4	14.7
SA11-10168	15.7	15.7	15.6	14.6	12.8	17.2	17.4	16.9
SA11-10182	14.5	14.9	14.7	12.6	11.5	15.0	17.1	15.6

Protein (%)

Strain	Mean 5 Tests	Brownstown IL	Urbana IL	Lafayette IN	Novelty MO	Portageville MO (Clay)
AG4032	35.6	36.3	35.8	35.5	34.1	36.0
AG3832	35.5	35.7	35.6	36.1	34.8	35.3
AG4232	34.6	35.2	34.1	34.9	33.8	34.9
LD11-13948R	36.2	37.2	34.9	35.8	35.7	37.5
S10-6090RR	35.1	35.7	34.3	34.6	34.6	36.0
SA11-9446	35.1	35.0	34.8	35.2	34.2	36.1
SA11-9478	34.9	35.2	34.5	35.0	33.7	36.2
SA11-10168	35.3	35.5	34.6	35.0	35.4	36.0
SA11-10182	35.1	36.1	34.2	34.3	34.4	36.2

Uniform Test IV Roundup-Ready, 2014

Oil (%)

Strain	Mean 5 Tests	Brownstown IL	Urbana IL	Lafayette IN	Novelty MO	Portageville MO (Clay)
AG4032	19.0	18.8	18.8	18.4	19.3	19.4
AG3832	18.6	18.6	18.4	18.1	19.0	19.0
AG4232	18.6	18.7	18.6	17.6	18.8	19.3
LD11-13948R	19.1	18.9	19.4	18.8	19.3	19.1
S10-6090RR	18.2	18.1	18.2	17.6	18.5	18.8
SA11-9446	18.6	18.9	18.4	17.5	18.8	19.2
SA11-9478	18.8	18.7	18.8	18.0	19.3	19.1
SA11-10168	18.5	18.6	18.6	17.9	18.4	19.1
SA11-10182	17.9	17.9	17.8	17.4	18.0	18.5