THE UNIFORM SOYBEAN TESTS

NORTHERN REGION

2012

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

COOPERATING WITH
STATE AGRICULTURAL EXPERIMENT STATIONS
NORTHERN STATES

USDA ars Agricultural Research Service
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UNIFORM SOYBEAN TESTS

NORTHERN STATES

2012

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

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2012 UNIFORM SOYBEAN TESTS NORTHERN STATES

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INTRODUCTION

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

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

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

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 Statements or data in the report, therefore, should not be published unless those concerned have obtained permission previously.

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

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

Northern Region UT – POLICY ON EVALUATION AND RELEASE OF STRAINS

Qualifications for inclusion in the Uniform Tests.

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

Use of Uniform Test entries in soybean breeding and research.

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

Release of Uniform Test entries.

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

STRAIN DESIGNATIONS

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

A	Iowa A.E.S. (A=W. Fehr, AR=S. Cianzio)
Ar	Arizona A.E.S.
Au	Alabama A. E. S.
B	California
C	Purdue (Indiana) A.R.P. (C=J.R. Wilcox, CL=A. LeRoy)
CM	Canada Dept. of Agriculture, Morden, Manitoba
D	Mississippi A.E.S.
E	Michigan A.E.S.
F	Florida A.E.S.
FC	Forage and Range Research Branch, USDA
Ga	Georgia A.E.S.
H	Ohio A.R.D.C. (HC=R.L. Cooper, HF=R. Fioritto, HS=S.K. St. Martin/L. McHale)
K	Kansas A.E.S.
Ky	Kentucky A.E.S.
L	Illinois A.E.S. (LD=B. Diers, LG=R.L. Nelson, LN=C.D. Nickell, LS=M. Schmidt)
La	Louisiana A.E.S.
LS	Southern Illinois University
M	Minnesota A.E.S.
Md	Maryland A.E.S.
Me	Maine A.E.S.
N	North Carolina A.E.S.
ND	North Dakota A.E.S.
OAC	University of Guelph, Guelph, Ontario
OK	Oklahoma Agricultural Experiment Station
ORC	Ridgetown, Ontario
OT	Central Experimental Farm, Ottawa, Ontario
OX	Research Station, Harrow, Ontario
PI	Plant Inventory
R	Arkansas A.E.S.
RJ	Arkansas State University, Jonesboro
S	Missouri A.E.S. (SS=D.Sleper)
SC	South Carolina A.E.S.
SD	South Dakota A.E.S.
Ts	Texas A.E.S.
T	Soybean Genetic Type Collection, USDA, Urbana, IL
U, NEX	Nebraska A.E.S.
UD	Delaware A.E.S.
UM	University of Manitoba, Winnipeg, Manitoba
UT	Tennessee A.E.S.
V	Virginia A.E.S.
W	Wisconsin A.E.S.
X(Y)	Two or more states cooperatively, e.g. ND(M) North Dakota and Minnesota

METHODS

Uniform tests are planted in multiple-row plots with three or four replications, and the center rows are harvested for yield and seed quality determinations. Preliminary Tests are multiple-row plots with two replications. Usually 15 to 20 feet of row are planted and 12 to 16 feet harvested, to eliminate end-of-row effects. Coefficients of variability are included with all replicated test data. Discretion is used in including data with high CVs in the regional means. If the CV is greater than 15, participants should include the reason, such as disease or environmental conditions. Lines may be heterogeneous for morphological traits the first year in the Uniform Tests but must be pure lines the second year of testing. It is the responsibility of the breeder to purify heterogeneous lines.

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

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

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

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

Group	Reference:	Range	Early check	Late check
00	MN0071	-7 to +5		MN0095 (L)
0	Sheyenne	-6 to +2	MN0095 (E)	Surge (L)
I	MN1410	-4 to +4	Sheyenne (0)	IA1022 (SCN)
II	IA2094	-3 to +5	IA1022 (I)	IA3024 (L)
III	IA3023	-6 to +2	IA3024	IA4004 (L)
IV	LD00-3309	-4 to +7	IA4004 (III)	LD00-2817P (L)
0RR	AG0532		AG0231 (E)	AG1230
IRR	SD1611RR		AG1230 (E)	U07-135601R
IIRR	U06-814223		AG2031 (E)	NEX2905A0R (L)
IIIRR	U03-827101 (SCN)		NEX2905A0R (E)	AG3803 (L)

These maturity group ranges are based on long-term means over many locations. When using data from other environments, the interval between reference varieties may vary, and the division between maturity groups should be estimated in proportion to the above figures. Additional check varieties may be included in specific tests such as IA1022 (SCN) for resistance to the soybean cyst nematode in UT I, or IA3024 as a 1% linolenic check in PTII, and PTIII.

Lodging is rated at maturity according to the following scores:

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

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

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

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

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

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

Descriptive Code: 1 2 3 4 5 6 7 8 abbreviated as underlined below.

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

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

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

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

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

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

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

DISEASE

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

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

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

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

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

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

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

Minnesota Iron Chlororis scores (IDC): Scores are the values on the average of 2 observations taken mid July, and early August. Data was collected from Danvers, Minnesota. Planting dates May 22, 2012.

Iowa State Iron Chlororis scores are values on the average of 4 observations. Data was collective from Humboldt, Iowa. Planting date June 4,2012.

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 2012

Variety	Experimental designation	Uniform Test evaluations
IA1026	A09-754003	2012 UT I
IA2105	A07-427027	2008 PTI, 2009 UTII, 2010 UTI, 2011 UTI
IA3052	A07-626002	2008 PTIIA, 2009-2011 UTII

Variety	Release date	Releasing states or Provinces	Foundation seed production
IA1026	Nov. 2012	Iowa	2013
IA2105	Jan. 2012	Iowa	2011
IA3052	Jan. 2012	Iowa	2011

2012 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)

			retest	
Indicator	Mean	FI	*Mean*	*FI*
Lee	375		142	
Essex	300		127	
PI548402	0	0	0	0
PI88788	6	1	*2*	*2*
PI90763	0	0	0	0
PI437654	0	0	0	0
PI209332	7	2	1	1
PI89772	0	0	0	0
PI548316	34	9	6	4
PI438489B	0	0	0	0
Pickett	0	0	1	1

HG Type 2.5.7 (Race1)

			retest	
Indicator	Mean	FI	*Mean*	*FI*
Lee	154			
Essex	107			
PI548402	1	0		
PI88788	59	39	*no retest done*	
PI90763	0	0		
PI437654	0	0		
PI209332	71	46		
PI89772	0	0		
PI548316	80	52		
PI438489B	11	7		
Pickett	3	2		

**=rep data too variable to rate

	HG Type 0 (Race 3)				**HG Type 2.5.7 (Race1)**			
Entry	**Line**	**Mean**	**FI**	**Rating**	**Mean**	**FI**	**Rating**	**Test**
4	MN0095	272	72	NR	99	64	NR	UT00, PT00, UT0, PT0
5	M05-350061	23	6	HR	*92*	*60*	*NR*	UT00
6	M06-274009	10	3	HR	139	90	NR	UT00
7	M06-274098	15	4	HR	79	52	LR	UT00
8	M06-289001	38	10	R	150	97	NR	UT00
1	Sheyenne	244	65	NR	95	62	NR	UT0, PT0, UTI, PTI
2	MN1410	230	61	NR	85	55	LR	UT0, PT0, UTI, PTI
3	Surge	239	64	NR	115	75	NR	UT0, PT0
5	MN0606CN	5	1	HR	112	73	NR	UT0, PT0
6	M03-149100	16	4	HR	85	55	LR	UT0
10	M05-363022	12	3	HR	101	65	NR	UT0
1	IA2102	40	11	R	137	89	NR	UTI, PTI, UTII, PTII
2	IA1022 (SCN)	21	6	HR	111	72	NR	UTI, PTI, UTII, PTII
11	U09-129007	247	66	NR	123	80	NR	UTI

		HG Type 0 (Race 3)			HG Type 2.5.7 (Race1)			
Entry	**Line**	**Mean**	**FI**	**Rating**	**Mean**	**FI**	**Rating**	**Test**
2	IA3024	216	58	LR	117	76	NR	UTII, PTII, UTIII, PTIII
3	IA3048	8	2	HR	91	59	LR	UTII, PTII
4	LD02- 4485	19	5	HR	*103*	*67*	*NR*	UTII
12	LD08- 6982	32	9	HR	111	72	NR	UTII
13	LD08-12428a	19	5	HR	75	49	LR	UTII
14	LD08-12435a	66	17	R	98	64	NR	UTII
19	U09-215057	263	70	NR	88	57	LR	UTII
24	U09-316113	80	57	LR	89	58	LR	UTII
1	IA3023	178	48	LR	104	67	NR	UTIII, PTIII
2	IA4005	291	78	NR	125	81	NR	UTIII, PTIII, UTIV, PTIV
8	LD07- 3419	1	0	HR	23	15	R	UTIII
9	LD07- 4477	28	7	HR	108	70	NR	UTIII
11	LD08- 1592	8	2	HR	116	75	NR	UTIII
13	LD08- 2355	5	1	HR	95	61	NR	UTIII
14	LD08- 6972	45	12	R	80	52	LR	UTIII
15	LD08- 8622	31	8	HR	119	77	**	UTIII
29	LD08-RST5-10	79	21	R	117	76	NR	PTIIIA
30	LD09-42	122	86	NR	123	80	NR	PTIIIA
31	LD09-10220	183	49	LR	81	52	LR	PTIIIA
22	U09-227064	259	69	NR	98	64	NR	PTIIIB
27	U10-429069	213	57	LR	120	78	NR	PTIIIB
28	U10-430052	40	11	R	96	63	NR	PTIIIB
29	U10-436068	281	75	NR	116	76	NR	PTIIIB
30	U10-442059	221	59	LR	115	75	NR	PTIIIB
1	LD00- 3309	39	10	R	90	59	LR	UTIV, PTIV
3	LD00- 2817P	2	1	HR	3	2	HR	UTIV, PTIV
6	LD06-7620	35	9	HR	90	58	LR	UTIV
7	LS07-1343	179	48	LR	114	74	NR	UTIV
8	LS07-2935	15	4	HR	80	52	LR	UTIV
9	LS07-3125	36	10	R	125	81	NR	UTIV
10	LS07-3131	19	5	HR	*116*	*75*	*NR*	UTIV
11	LS08-5837	25	7	HR	98	64	NR	UTIV
14	LS09-1527	9	2	HR	*101*	*65*	*NR*	PTIV
15	LS09-1530	222	59	LR	136	88	NR	PTIV
16	LS09-1803	41	11	R	100	65	NR	PTIV
17	LS09-2340	164	116	NR	93	61	NR	PTIV
18	LS09-2342	64	17	R	127	83	NR	PTIV
19	LS09-2655	79	21	R	111	72	NR	PTIV
20	LS09-2659	65	17	R	147	96	NR	PTIV
21	LS09-2707	306	82	NR	109	71	NR	PTIV
22	LS09-2722	40	11	R	*139*	*90*	*NR*	PTIV
23	LS09-5806	21	6	HR	*84*	*55*	*NR*	PTIV
25	S10-8471	224	60	NR	*107*	*69*	*NR*	PTIV

		HG Type 0 (Race 3)			HG Type 2.5.7 (Race1)			
Entry	**Line**	**Mean**	**FI**	**Rating**	**Mean**	**FI**	**Rating**	**Test**
6	U07-135636R	246	66	NR	104	68	NR	UTIIRR
7	U07-236940R	263	70	NR	90	59	LR	UTIIRR
8	U11-607166R	240	64	NR	*92*	*60*	*NR*	UTIIRR
9	U11-609163R	242	64	NR	131	85	NR	UTIIRR
10	U11-629168R	206	55	LR	131	85	NR	UTIIRR
11	U11-638173R	261	70	NR	*117*	*76*	*NR*	UTIIRR
12	U11-642173R	277	74	NR	*112*	*73*	*NR*	UTIIRR
13	U11-902111R	271	72	NR	82	53	LR	UTIIRR
14	U11-902116R	193	51	LR	108	70	NR	UTIIRR
15	U11-906115R	267	71	NR	107	69	NR	UTIIRR
16	U11-924115R	191	51	LR	125	81	NR	UTIIRR
17	U11-924119R	227	60	NR	138	90	NR	UTIIRR
18	U11-925119R	234	62	NR	111	72	NR	UTIIRR
19	U11-926111R	223	59	LR	100	65	NR	UTIIRR
20	U11-927115R	330	88	NR	*110*	*71*	*NR*	UTIIRR
21	U11-927121R	228	61	NR	141	91	NR	UTIIRR
22	U11-931121R	262	70	NR	116	75	NR	UTIIRR
1	U03-827101	41	11	R	124	80	NR	UTIIIRR
4	AG3803	28	8	HR	122	79	NR	UTIIIRR
5	LD09-17071R2	7	2	HR	116	75	NR	UTIIIRR
6	LD09-17123R2	77	21	R	132	86	NR	UTIIIRR
7	LD09-17140R2	26	7	HR	94	61	NR	UTIIIRR
8	LD09-17213R2	4	1	HR	141	92	NR	UTIIIRR
9	LD09-17220R2	4	1	HR	148	96	NR	UTIIIRR
10	U11-602165R	257	68	NR	147	95	NR	UTIIIRR
11	U11-603167R	245	65	NR	126	82	NR	UTIIIRR
12	U11-604181R	254	68	NR	123	80	NR	UTIIIRR
13	U11-605178R	207	55	LR	101	66	NR	UTIIIRR
14	U11-605186R	274	73	NR	116	75	NR	UTIIIRR
15	U11-606184R	132	93	NR	117	76	NR	UTIIIRR
16	U11-607174R	199	53	LR	108	70	NR	UTIIIRR
17	U11-608163R	271	72	NR	129	84	NR	UTIIIRR
18	U11-608165R	169	45	LR	120	78	NR	UTIIIRR
19	U11-608172R	232	62	NR	108	70	NR	UTIIIRR
20	U11-609165R	154	41	LR	129	84	NR	UTIIIRR
21	U11-610186R	237	63	NR	88	57	LR	UTIIIRR
22	U11-611178R	167	44	LR	126	82	NR	UTIIIRR
23	U11-643172R	313	83	NR	83	54	LR	UTIIIRR
24	U11-904117R	249	66	NR	121	78	NR	UTIIIRR

2012 Soybean Phytophthora Rps Gene Evaluation - Indiana

Test	Entry #	Strain	R1	R3	R4	R7	R17	R25
			(7)	(1a,7)	(1a,1c,5,7)	(1a,2,3a,3c,4,5,6,7)	(1b,1d,2,3,4,5,6,7,8)	(1a,1b,1c,1k,7)
UT00	1.	MN0071 (00)	0/12	0/11	7/15	12/13	0/13	9/12
UT00	2.	Cavalier	0/12	0/11	2/14	6/15	7/13	2/15
UT00	3.	MN0095 (0)	0/13	11/12	14/16	9/12	0/14	12/13
UT00	4.	M03-158071	0/15	0/15	9/17	0/16	0/14	8/14
UT00	5.	M05-350061	0/12	0/11	16/16	5/11	0/14	2/13
UT00	6.	M06-274009	0/6	3/9	6/11	9/11	10/12	7/7
UT00	7.	M06-274098	0/14	0/11	12/15	14/15	4/13	9/11
UT00	8.	M06-289001	0/14	2/14	14/16	13/15	15/15	15/16
UT00	9.	M06-296023	0/14	2/9	13/15	14/15	0/15	13/15
UT00	10.	M06-320039	0/15	4/15	16/16	15/15	8/15	13/13
UT00	11.	M06-338016	0/11	5/12	7/14	9/10	0/11	9/11
UT00	12.	M06-353010	0/12	2/12	13/17	9/16	12/15	13/17
UT00	13.	M06-378172	3/13	3/9	8/10	7/13	7/9	9/12
UT00	14.	ND09-3153	0/15	4/13	7/15	7/14	6/15	13/16
UT00	15.	ND09-3155	0/13	0/14	9/15	7/8	8/13	9/15
UT00	16.	ND09-3170	0/14	1/15	8/16	11/13	10/14	14/17
UT00	17.	ND09-3175	0/15	1/15	3/16	7/17	9/14	12/17
UT00	18.	ND09-3180	0/16	0/15	3/16	12/13	11/14	13/17
UT00	19.	ND09-3344	0/13	0/14	3/15	13/14	13/14	10/15
UT00	20.	ND09-3381	0/14	0/14	3/16	6/15	12/14	10/15
UT00	21.	ND09-3416	0/14	0/10	2/15	10/12	10/13	8/14
UT00	22.	ND09-3437	0/13	0/11	1/15	9/12	0/11	2/11
UT00	23.	ND09-3505	0/14	0/14	3/14	12/14	0/12	7/12
UT00	24.	ND09-3724	0/12	0/14	7/13	1/14	0/14	6/16
UT00	25.	ND09-5706	0/10	0/8	14/15	0/8	0/9	3/11
UT00	26.	ND09-5800	0/11	0/15	14/15	0/8	0/14	4/7

Test	Entry #	Strain	R1	R3	R4	R7	R17	R25
			(7)	(1a,7)	(1a,1c,5,7)	(1a,2,3a,3c,4,5,6,7)	(1b,1d,2,3,4,5,6,7,8)	(1a,1b,1c,1k,7)
UT0	1.	Sheyenne (0)	0/14	0/15	12/16	0/6	0/9	14/17
UT0	2.	MN1410 (I)	0/15	1/11	13/16	16/17	6/14	15/17
UT0	3.	Surge (L)	0/14	3/10	15/16	13/15	2/12	13/14
UT0	4.	MN0095 (E)	0/15	11/12	14/16	5/6	0/13	13/16
UT0	5.	MN0606CN (SCN)	0/15	6/14	8/14	6/15	4/12	9/16
UT0	6.	M03-149100	0/12	0/13	2/14	0/18	0/13	9/16
UT0	7.	M03-172059	0/15	0/13	1/16	7/16	0/15	7/16
UT0	8.	M05-243040	0/13	12/14	3/11	8/13	4/13	13/15
UT0	9.	M05-363022	0/13	7/13	10/14	14/15	11/14	12/15
UT0	10.	ND07-2205	0/15	0/15	1/17	0/17	0/15	5/17
UT0	11.	ND07-2303	0/14	2/15	0/15	0/17	0/15	7/17
UT0	12.	ND07-3761	0/14	1/14	1/13	0/16	0/15	14/18
UT0	13.	SD07CV-539	0/12	0/9	6/12	0/13	0/13	7/13
UT0	14.	SD08CV-0015	1/14	12/13	16/16	13/15	7/14	15/17
UT0	15.	SD08CV-0018	0/12	9/10	13/16	9/11	4/13	10/13

2012 Soybean Phytophthora Rps Gene Evaluation - Indiana

Test	Entry #	Strain	R1	R3	R4	R7	R17	R25
			(7)	(1a,7)	(1a,1c,5,7)	(1a,2,3a,3c,4,5,6,7)	(1b,1d,2,3,4,5,6,7,8)	(1a,1b,1c,1k,7)
PT0	1.	Sheyenne (0)	0/15	0/12	16/16	1/12	0/16	13/17
PT0	2.	MN1410 (I)	3/15	10/13	15/16	13/13	2/14	13/15
PT0	3.	Surge (L)	0/11	4/12	11/13	16/16	0/12	10/15
PT0	4.	MN0095 (E)	0/9	1/10	10/13	10/14	0/11	13/15
PT0	5.	M06-235009	0/11	0/12	13/14	2/3	3/12	12/15
PT0	6.	M06-247018	0/12	0/12	14/15	6/10	8/15	11/14
PT0	7.	M06-337010	0/13	3/15	15/17	5/5	2/13	11/14
PT0	8.	M06-356031	0/12	1/12	4/16	2/14	6/13	4/15
PT0	9.	M06-358171	0/12	0/15	17/17	2/6	6/14	7/15
PT0	10.	M06-358188	0/13	0/13	16/18	0/11	2/15	12/16
PT0	11.	M06-361002	0/11	0/13	2/18	0/6	3/15	11/14
PT0	12.	M06-361006	0/13	0/12	2/15	0/10	4/15	1/14
PT0	13.	M06-380029	0/16	0/14	11/15	0/4	4/14	7/11
PT0	14.	M06-381085	0/13	1/15	13/16	5/10	12/15	10/14
PT0	15.	ND06-4642	0/14	2/14	15/15	11/15	4/15	12/16
PT0	16.	ND07-3947	0/15	0/15	3/16	0/14	7/15	15/15
PT0	17.	ND08-9127	0/15	0/15	14/16	0/16	1/15	13/15
PT0	18.	ND08-9141	0/15	0/15	12/16	0/16	1/15	13/18
PT0	19.	ND08-9273	0/14	0/15	5/17	0/15	0/15	12/13
PT0	20.	ND09-3674	0/15	1/14	6/16	9/13	4/13	4/15
PT0	21.	ND09-4027	0/14	0/14	4/15	13/17	2/15	6/17
PT0	22.	ND09-4322	0/14	0/15	3/15	1/13	3/13	13/15
PT0	23.	ND09-5526	0/14	0/12	7/13	14/17	2/11	6/13
PT0	24.	ND09-5708	0/15	0/14	3/17	0/14	2/11	0/11
PT0	25.	ND09-5757	0/13	0/15	1/17	0/13	1/14	0/11
PT0	26.	ND09-5762	0/10	1/11	9/19	0/5	0/13	1/6
PT0	27.	ND09-5764	0/15	0/15	3/17	0/11	3/14	2/17
PT0	28.	OAC 10-06C	0/14	5/16	14/18	10/16	8/14	5/16
PT0	29.	OAC 10-20C	0/15	1/14	3/16	6/9	6/16	1/15
PT0	30.	OAC 10-24C	0/15	15/16	15/16	12/16	5/16	3/16
PT0	31.	SD06-393	0/11	13/13	12/12	9/11	3/14	12/12
PT0	32.	SD06-415	0/13	9/14	11/11	12/13	3/15	15/17
PT0	33.	SD06-418	0/12	3/12	14/15	8/11	4/12	6/11
PT0	34.	SD06-455	0/13	11/14	13/13	7/13	10/14	10/14
PT0	35.	SD09CV-0012	0/12	0/15	10/17	0/17	0/14	13/16
PT0	36.	SD09CV-0030	0/13	10/15	12/13	13/14	1/14	11/16
PT0	37.	SD09CV-0047	0/14	0/16	8/15	0/13	0/12	6/14
PT0	38.	SD09CV-0055	0/13	0/14	9/16	2/13	1/12	7/12
PT0	39.	SD09CV-0076	0/13	4/12	14/15	10/15	3/10	6/15
PT0	40.	SD09CV-0133	0/13	3/10	11/16	7/10	0/12	6/12

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Test	Controls	R1	R3	R4	R7	R17	R25
		(7)	(1a,7)	(1a,1c,5,7)	(1a,2,3a,3c,4,5,6,7)	(1b,1d,2,3,4,5,6,7,8)	(1a,1b,1c,1k,7)
UT00	None	0/12	2/10	12/13	14/15	3/11	17/17
&	1a (Harosoy)	0/14	2/15	11/14	5/15	1/13	11/14
UT0	1a (Union)	0/11	0/12	13/14	9/13	0/15	13/14
&	1b	0/15	0/14	0/16	1/15	8/15	11/14
PT0	1c	0/13	0/14	7/14	2/16	1/14	11/15
	1d	0/13	0/10	1/15	1/7	7/13	3/14
	1k	0/15	0/14	4/16	1/12	1/15	12/14
	2	0/15	0/13	7/16	8/13	9/14	10/13
	3a	0/15	3/14	0/17	13/14	11/15	2/14
	3b	0/15	0/15	0/15	0/14	10/15	1/13
	3c	0/13	0/14	n/a	10/11	5/15	5/13
	4	0/15	0/13	3/15	9/13	7/15	5/14
	5	0/11	0/14	3/15	9/12	8/14	5/16
	6	0/15	1/13	0/15	13/15	7/14	6/15
	7	0/13	10/14	10/13	8/11	7/14	12/15
	8	0/10	0/12	0/16	0/9	13/15	1/8

Test	Entry #	Strain	R1	R3	R4	R7	R17	R25
			(7)	(1a,7)	(1a,1c,5,7)	(1a,2,3a,3c,4,5,6,7)	(1b,1d,2,3,4,5,6,7,8)	(1a,1b,1c,1k,7)
UTI	1.	MN1410 (I)	4/15	6/16	16/17	16/17	10/17	13/15
UTI	2.	IA1022 (SCN)	0/15	0/16	8/13	9/14	8/13	15/16
UTI	3.	Sheyenne (0)	0/14	0/13	4/7	2/10	0/4	5/13
UTI	4.	A09-753035	0/17	2/16	12/15	2/14	0/17	15/16
UTI	5.	A09-754003	2/15	2/15	10/14	7/15	4/16	13/15
UTI	6.	M03-165068	0/14	0/14	5/13	0/16	1/16	11/14
UTI	7.	M05-307064	0/15	0/16	4/17	4/16	1/17	5/16
UTI	8.	SD08CV-1041	0/15	0/16	7/17	2/17	0/15	9/15
UTI	9.	SD08CV-1043	0/15	1/16	4/17	0/12	0/16	9/11
UTI	10.	U09-105007	0/15	0/15	1/11	9/13	0/13	7/14
UTI	11.	U09-129007	0/15	1/13	6/13	1/11	0/14	7/13
UTI	12.	U09-210042	4/16	16/16	7/9	12/13	3/13	8/9
UTI	13.	U09-210051	9/14	15/15	8/10	13/17	3/15	7/8
UTI	14.	U09-211070	2/12	8/16	5/10	12/13	3/12	9/12

Test	Entry #	Strain	R1	R3	R4	R7	R17	R25
			(7)	(1a,7)	(1a,1c,5,7)	(1a,2,3a,3c,4,5,6,7)	(1b,1d,2,3,4,5,6,7,8)	(1a,1b,1c,1k,7)
PTI	1.	MN1410 (I)	7/17	10/16	10/15	14/16	2/18	11/16
PTI	2.	IA1022 (SCN)	0/15	1/16	5/12	16/17	0/16	7/13
PTI	3.	Sheyenne (0)	0/15	0/14	14/16	11/13	0/17	9/13
PTI	4.	AR11-114002	0/15	0/17	9/17	16/16	1/16	10/15
PTI	5.	AR11-114020	1/15	2/16	12/15	14/15	4/14	14/15
PTI	6.	AR11-114021	0/16	0/17	7/16	12/15	1/16	14/14
PTI	7.	AR11-114034	2/16	2/14	7/12	10/15	2/10	7/10
PTI	8.	AR11-114041	0/14	2/16	0/7	4/12	0/10	4/8
PTI	9.	AR11-114047	6/14	1/9	10/14	12/14	9/15	12/12
PTI	10.	AR11-114052	0/15	2/17	12/16	0/13	0/13	11/12
PTI	11.	AR11-114057	3/17	3/17	8/16	17/17	8/10	11/11
PTI	12.	AR11-114059	2/14	8/17	11/17	14/15	11/16	14/15
PTI	13.	AR11-114062	0/15	1/17	10/15	5/16	2/14	14/14
PTI	14.	AR11-114063	1/13	8/17	11/14	6/12	9/16	11/11
PTI	15.	AR11-114066	1/17	2/16	7/16	5/15	3/13	13/14

PTI	16.	M06-235003	0/15	0/16	8/17	0/16	1/13	12/14
PTI	17.	M06-294048	6/16	1/16	10/16	8/13	9/16	12/13
PTI	18.	M06-310036	0/15	1/16	7/13	7/14	2/13	12/13
PTI	19.	M06-310039	0/15	0/17	7/16	2/15	2/14	14/14
PTI	20.	M06-337011	0/15	0/16	11/14	11/17	0/13	14/14
PTI	21.	M06-337041	0/15	0/17	7/15	3/17	1/17	15/15
PTI	22.	M06-355049	3/12	4/15	16/16	12/15	12/16	18/18
PTI	23.	M06-382188	7/17	8/14	12/13	13/14	9/17	14/14
PTI	24.	OAC 10-32C	7/15	7/16	16/17	13/15	5/17	17/17
PTI	25.	OAC 10-36C	8/17	4/17	12/17	14/15	8/14	11/13
PTI	26.	OAC 10-38C	4/15	4/16	9/16	11/15	4/14	14/14
PTI	27.	OAC 10-40C	1/14	9/16	12/16	11/16	0/16	8/9
PTI	28.	SD09CV-1018	0/16	7/12	10/12	3/12	3/9	7/11
PTI	29.	SD09CV-1029	0/17	14/15	14/14	7/12	9/14	7/7
PTI	30.	SD09CV-1040	1/11	9/12	10/16	14/15	10/15	8/9
PTI	31.	SD09CV-1041	8/15	8/16	15/15	15/16	14/16	12/12
PTI	32.	SD09CV-1152	0/16	6/18	15/15	16/17	6/14	9/10
PTI	33.	SD09CV-1515	1/11	10/13	13/13	12/13	9/12	10/10
PTI	34.	SD09CV-1565	0/12	9/15	15/15	15/15	8/13	14/14
PTI	35.	SD09CV-1606	0/15	9/15	16/16	15/16	8/13	15/15
PTI	36.	SD09CV-1622	0/16	0/16	13/13	5/13	1/11	9/10
PTI	37.	SD09CV-2304	1/8	4/15	13/13	12/13	5/12	13/14
PTI	38.	U09-118017	4/16	1/17	12/13	11/14	5/8	12/14
PTI	39.	U09-119024	0/15	0/16	3/7	11/15	1/9	12/12
PTI	40.	U09-211051	0/17	0/17	11/14	6/16	9/14	13/15

Test	**Entry #**	**Strain**	**R1**	**R3**	**R4**	**R7**	**R17**	**R25**
			(7)	(1a,7)	(1a,1c,5,7)	(1a,2,3a,3c,4,5,6,7)	(1b,1d,2,3,4,5,6,7,8)	(1a,1b,1c,1k,7)
UTII	1.	IA 2102 (II)	0/16	7/17	17/17	12/17	11/13	16/16
UTII	2.	IA1022 (SCN)	0/17	3/17	15/15	11/16	14/17	13/15
UTII	3.	IA3024	0/11	0/10	11/14	6/16	1/17	12/13
UTII	4.	LD02-4485 (SCN)	0/11	6/13	15/15	7/15	8/11	14/14
UTII	5.	A09-755015	3/15	12/17	14/15	14/17	15/16	16/17
UTII	6.	AR09-192019	0/14	15/16	10/11	13/16	13/14	12/13
UTII	7.	AR09-292004	2/15	2/14	7/7	7/15	9/14	8/9
UTII	8.	AR10-106008	0/14	8/17	6/15	0/16	0/11	8/12
UTII	9.	AR10-206012	0/14	10/14	10/13	11/14	4/14	7/13
UTII	10.	AR10-206073	0/13	2/15	13/13	8/15	0/11	8/11
UTII	11.	AR10-206075	5/17	16/17	12/12	12/15	9/17	15/16
UTII	12.	E09090	1/17	6/18	14/15	13/17	7/15	5/10
UTII	13.	LD08-12428a	1/15	0/11	13/13	4/14	3/14	5/18
UTII	14.	LD08-6982	2/11	3/15	12/12	7/15	0/10	9/15
UTII	15.	LD08-12435a	3/15	3/12	15/16	10/12	10/17	7/11
UTII	16.	HM09-W146	0/15	1/16	0/15	7/17	2/17	13/13
UTII	17.	SD07CV-631	9/17	8/17	11/11	12/13	2/9	8/14
UTII	18.	SD08CV-2102	6/16	9/16	12/13	13/17	5/16	15/17
UTII	19.	U09-215057	0/14	0/16	11/11	0/14	0/13	5/14
UTII	20.	U09-224078	8/14	10/14	13/13	10/11	0/13	12/14
UTII	21.	U09-310098	3/14	12/15	13/14	9/14	4/11	14/17
UTII	22.	U09-311114	4/15	8/16	11/11	4/10	2/11	13/14
UTII	23.	U09-312115	0/12	0/16	15/16	0/8	4/12	9/14
UTII	24.	U09-316113	0/11	4/16	10/11	9/13	2/12	6/16
UTII	25.	U09-317120	0/14	6/17	11/13	12/13	1/12	5/15

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Test	Controls	R1	R3	R4	R7	R17	R25
		(7)	(1a,7)	(1a,1c,5,7)	(1a,2,3a,3c,4,5,6,7)	(1b,1d,2,3,4,5,6,7,8)	(1a,1b,1c,1k,7)
UTI	None	8/12	9/13	9/13	12/14	2/13	2/8
&	1a (Harosoy)	0/10	1/13	8/13	5/15	0/9	4/11
PTI	1a (Union)	0/11	7/12	13/14	14/15	6/16	8/11
&	1b	0/15	0/12	12/17	6/15	1/11	11/15
UTII	1c	0/13	0/13	14/16	7/16	3/15	14/16
	1d	0/17	0/16	6/13	10/13	2/8	3/10
	1k	0/14	0/12	13/16	5/15	3/15	14/16
	2	2/14	0/14	11/16	16/16	9/16	16/16
	3a	0/16	0/14	8/16	14/15	12/14	3/16
	3b	0/14	0/14	1/15	2/16	7/13	0/14
	3c	0/13	0/15	6/16	14/16	14/15	3/18
	4	0/13	0/14	8/16	14/15	8/16	0/16
	5	0/13	0/13	12/17	14/16	11/16	7/17
	6	0/12	0/13	4/16	15/16	7/16	4/13
	7	3/15	2/13	14/14	15/15	1/12	16/16
	8	0/16	0/10	1/16	13/13	10/14	0/15

Test	Entry #	Strain	R1	R3	R4	R7	R17	R25
			(7)	(1a,7)	(1a,1c,5,7)	(1a,2,3a,3c,4,5,6,7)	(1b,1d,2,3,4,5,6,7,8)	(1a,1b,1c,1k,7)
PTII A	1.	IA 2102 (II)	6/15	2/13	10/15	12/15	11/13	11/13
PTII A	2.	IA1022 (SCN)	2/14	0/12	8/17	7/12	12/17	15/17
PTII A	3.	IA3024	1/14	0/15	0/13	5/13	0/13	13/13
PTII A	4.	AR10-106014	6/15	1/12	10/14	13/14	7/15	13/16
PTII A	5.	AR10-206106	3/17	2/15	11/15	2/15	6/15	5/14
PTII A	6.	AR11-114003	0/15	0/16	14/16	6/15	0/15	10/15
PTII A	7.	AR11-214001	0/15	0/17	0/15	1/17	1/17	11/15
PTII A	8.	AR11-214019	2/17	4/16	12/15	3/14	13/17	5/14
PTII A	9.	AR11-214022	0/16	0/17	13/17	0/15	0/17	8/15
PTII A	10.	AR11-214023	0/15	0/17	12/15	0/13	1/16	7/15
PTII A	11.	AR11-214035	0/16	0/17	10/15	0/16	1/15	12/13
PTII A	12.	AR11-214062	0/16	0/14	2/17	0/16	1/16	9/15
PTII A	13.	LD09-16058	6/16+	2/17	15/16	5/13	14/16	14/17
PTII A	14.	LD09-30015	2/17	2/16	14/17	8/14	16/17	11/15
PTII A	15.	LG10-1562	11/16	3/17	12/17	10/16	15/18	8/13
PTII A	16.	LG10-1594	0/16	0/17	0/16	1/14	2/16	0/14
PTII A	17.	LG10-1569	3/10	1/15	11/13	7/12	10/12	11/12
PTII A	18.	SD09CV-2018	4/12	2/15	11/14	3/11	12/15	7/14
PTII A	19.	SD09CV-2038	5/15	4/16	15/16	9/16	13/14	8/15
PTII A	20.	SD09CV-2085	2/15	2/16	13/14	4/12	11/16	5/14
PTII A	21.	SD09CV-2095	0/15	5/16	15/15	7/15	1/15	9/14
PTII A	22.	SD09CV-2096	0/15	2/15	14/14	7/13	1/16	7/13
PTII A	23.	SD09CV-2116	0/15	0/16	12/16	9/14	2/15	12/15
PTII A	24.	SD09CV-2356	0/16	1/12	11/14	2/15	1/17	11/13
PTII A	25.	SD09CV-2392	3/12	3/16	7/11	11/12	5/16	5/10

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Test	Entry #	Strain	R1	R3	R4	R7	R17	R25
			(7)	(1a,7)	(1a,1c,5,7)	(1a,2,3a,3c,4,5,6,7)	(1b,1d,2,3,4,5,6,7,8)	(1a,1b,1c,1k,7)
PTII B	1.	IA 2102 (II)	1/14	10/16	10/13	13/16	14/16	6/14
PTII B	2.	IA1022 (SCN)	0/16	9/17	12/17	13/15	12/15	4/15
PTII B	3.	IA3024	0/15	0/17	8/16	1/17	0/13	8/14
PTII B	4.	E10169	0/16	0/17	5/15	1/17	5/16	9/15
PTII B	5.	E10254LL	0/15	0/17	11/14	4/15	0/16	9/16
PTII B	6.	E10265LL	0/15	9/17	12/17	10/15	0/14	2/13
PTII B	7.	HM09-W084	0/15	0/16	3/17	4/18	0/16	6/16
PTII B	8.	HM10-W314	3/15	8/14	11/13	8/12	5/13	7/13
PTII B	9.	HR09-720	0/15	2/14	0/16	15/15	6/15	10/14
PTII B	10.	HR09-728	0/12	0/12	0/14	13/15	2/11	3/11
PTII B	11.	HR09-734	0/13	0/16	0/15	15/15	4/15	7/16
PTII B	12.	U09-118015	10/12	18/18	16/16	13/13	5/14	14/16
PTII B	13.	U09-121013	8/13	12/15	13/16	15/16	2/16	10/16
PTII B	14.	U09-133005	5/14	8/16	12/16	15/15	12/17	8/16
PTII B	15.	U09-133021	4/12	2/16	16/17	16/17	9/16	6/15
PTII B	16.	U09-135022	8/13	7/15	12/13	11/13	7/15	6/15
PTII B	17.	U09-137003	8/14	4/11	12/12	12/12	8/12	5/10
PTII B	18.	U09-202083	4/12	0/11	4/13	13/13	4/11	7/13
PTII B	19.	U09-210041	0/16	0/16	2/15	2/15	0/13	2/13
PTII B	20.	U09-210049	10/16	2/17	4/15	11/12	2/13	11/18
PTII B	21.	U09-210055	12/14	4/16	10/15	15/16	2/14	6/16
PTII B	22.	U09-211046	1/15	1/17	0/14	6/18	0/17	5/14
PTII B	23.	U09-211049	13/15	13/14	9/15	15/15	5/15	5/17
PTII B	24.	U09-213068	13/16	13/16	10/15	16/16	6/17	7/14
PTII B	25.	U09-220070	13/14	14/16	16/16	15/15	8/14	5/14

Test	Entry #	Strain	R1	R3	R4	R7	R17	R25
			(7)	(1a,7)	(1a,1c,5,7)	(1a,2,3a,3c,4,5,6,7)	(1b,1d,2,3,4,5,6,7,8)	(1a,1b,1c,1k,7)
UTIII	1.	IA3023 (III)	13/16	15/16	12/16	16/16	7/15	10/17
UTIII	2.	IA3024	0/15	3/14	4/14	6/17	0/16	6/14
UTIII	3.	IA3048 (SCN)	5/17	13/16	15/16	13/16	9/14	7/17
UTIII	4.	IA4005	10/12	9/18	8/16	12/16	3/15	7/17
UTIII	5.	AR10-306021	3/8	11/14	7/10	14/14	5/12	5/12
UTIII	6.	LD07-3419	13/16	11/15	5/15	17/17	4/16	6/16
UTIII	7.	LD07-4477	11/12	11/16	8/14	15/17	6/13	7/16
UTIII	8.	LD08-1592	0/12	0/16	12/15	1/13	0/14	5/14
UTIII	9.	LD08-2355	12/14	6/17	12/14	13/14	7/16	6/16
UTIII	10.	LD08-6972	0/15	0/14	7/15	1/11	0/14	5/13
UTIII	11.	LD08-8622	0/16	5/16	2/15	0/14	0/14	9/16
UTIII	12.	LG09-8545	0/14	1/16	0/16	6/14	1/17	0/15

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Test	Controls	R1	R3	R4	R7	R17	R25
		(7)	(1a,7)	(1a,1c,5,7)	(1a,2,3a,3c,4,5,6,7)	(1b,1d,2,3,4,5,6,7,8)	(1a,1b,1c,1k,7)
PTII A	None	6/10	2/11	11/14	10/16	2/11	14/14
&	1a (Harosoy)	1/15	0/15	7/14	5/15	3/17	7/14
PTII B	1a (Union)	30/13	3/15	14/15	8/13	1/14	13/15
&	1b	0/15	0/15	1/17	0/17	6/16	9/15
UTIII	1c	0/14	0/17	16/18	0/16	2/18	13/14
	1d	0/10	0/16	6/16	4/16	6/12	5/13
	1k	0/15	0/17	4/16	1/14	1/15	15/16
	2	3/14	1/17	9/16	14/16	9/14	12/15
	3a	0/16	0/17	1/17	13/16	15/17	11/14
	3b	0/16	0/17	0/16	0/13	10/15	1/14
	3c	0/15	0/16	3/15	11/14	12/17	3/12
	4	0/14	0/17	7/17	12/14	10/15	12/15
	5	3/13	1/17	1/17	15/15	14/16	5/12
	6	1/15	0/17	1/16	13/15	8/16	9/17
	7	7/16	1/16	8/13	14/15	9/15	10/16
	8	0/19	0/14	0/12	5/13	7/15	1/14

Test	Entry #	Strain	R1	R3	R4	R7	R17	R25
			(7)	(1a,7)	(1a,1c,5,7)	(1a,2,3a,3c,4,5,6,7)	(1b,1d,2,3,4,5,6,7,8)	(1a,1b,1c,1k,7)
PTIII A	1.	IA3023 (III)	0/15	16/16	11/13	14/14	8/15	13/16
PTIII A	2.	IA3024	0/11	5/14	3/13	0/13	0/14	13/14
PTIII A	3.	IA3048 (SCN)	0/15	12/12	10/11	10/12	3/10	4/10
PTIII A	4.	IA4005	0/14	12/13	15/16	15/15	4/17	11/13
PTIII A	5.	AR09-292051	0/16	16/16	16/16	12/12	13/15	15/17
PTIII A	6.	AR10-206003	0/12	16/16	16/16	14/14	14/15	17/17
PTIII A	7.	AR11-214003	0/17	17/17	16/16	16/16	13/15	15/15
PTIII A	8.	AR11-214013	0/17	14/16	9/14	2/12	8/16	12/14
PTIII A	9.	AR11-214015	0/14	10/16	12/14	2/15	5/16	10/12
PTIII A	10.	AR11-214032	0/16	14/15	16/16	11/11	10/13	9/12
PTIII A	11.	AR11-214034	0/16	10/15	12/16	2/15	1/13	13/14
PTIII A	12.	AR11-314003	4/15	17/17	16/16	17/17	15/15	16/18
PTIII A	13.	AR11-314011	0/15	12/16	15/15	0/15	1/16	10/13
PTIII A	14.	AR11-314015	0/17	17/17	16/16	13/13	14/14	11/14
PTIII A	15.	AR11-314016	0/15	17/17	16/17	13/14	7/17	11/14
PTIII A	16.	AR11-314018	0/15	16/16	15/15	16/16	16/16	14/15
PTIII A	17.	AR11-314023	1/17	14/17	16/17	17/17	15/16	12/16
PTIII A	18.	AR11-314026	0/16	16/16	16/16	14/15	1014	10/13
PTIII A	19.	AR11-314030	0/16	13/16	11/13	16/16	9/15	8/15
PTIII A	20.	HR09-706	0/14	0/16	10/16	0/12	0/13	3/9
PTIII A	21.	HR09-730	0/13	0/14	11/15	16/17	6/15	0/15
PTIII A	22.	HM09-W054	0/14	11/16	14/14	11/13	0/16	10/14
PTIII A	23.	HM09-W063	0/17	10/16	15/16	13/16	2/16	15/17
PTIII A	24.	HM09-W150	0/16	1/16	13/13	0/15	0/16	16/17
PTIII A	25.	HM09-W158	0/13	2/16	14/15	0/15	0/12	13/13
PTIII A	26.	HM09-W174	0/15	14/16	14/14	9/17	3/17	14/16
PTIII A	27.	HM10-W081	0/15	3/8	10/12	3/10	0/12	5/15
PTIII A	28.	HS8-3463	0/14	6/16	8/15	2/17	14/16	4/16
PTIII A	29.	LD08-RST5-10	11/17	14/15	17/17	17/17	17/17	14/16
PTIII A	30.	LD09-42	2/15	18/18	17/17	15/15	17/17	15/17
PTIII A	31.	LD09-10220	0/13	2/11	11/14	6/12	0/13	9/15
PTIII A	32.	LD09-30208	0/9	14/14	15/15	11/12	13/14	15/16

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Test	Entry #	Strain	R1	R3	R4	R7	R17	R25
			(7)	(1a,7)	(1a,1c,5,7)	(1a,2,3a,3c,4,5,6,7)	(1b,1d,2,3,4,5,6,7,8)	(1a,1b,1c,1k,7)
PTIII B	1.	IA3023 (III)	3/15	15/16	15/16	17/17	16/17	14/16
PTIII B	2.	IA3024	0/13	5/14	15/15	2/14	1/14	8/13
PTIII B	3.	IA3048 (SCN)	0/16	15/15	17/17	8/11	5/15	8/16
PTIII B	4.	IA4005	3/15	14/16	16/17	13/17	6/17	12/15
PTIII B	5.	E10173	0/10	0/15	11/13	0/16	1/15	1/12
PTIII B	6.	E10174	0/12	0/11	10/12	8/17	6/16	7/15
PTIII B	7.	K10-2385	1/12	7/15	13/13	10/12	10/10	6/12
PTIII B	8.	LG08-3607	5/16	12/14	12/12	10/12	10/11	9/9
PTIII B	9.	LG09-7157	0/17	6/17	16/16	7/9	13/15	9/14
PTIII B	10.	LG09-7163	1/17	13/17	16/16	14/15	14/15	8/15
PTIII B	11.	LG09-7431	3/18	13/17	17/17	14/16	13/15	9/13
PTIII B	12.	LG09-7823	0/16	1/17	16/18	1/12	2/15	4/14
PTIII B	13.	LG09-8078	0/16	16/17	17/17	13/16	0/12	11/15
PTIII B	14.	LG09-8165	3/16	15/16	17/17	13/14	12/14	10/12
PTIII B	15.	LG10-2970	0/15	17/17	15/15	14/14	10/15	9/16
PTIII B	16.	U09-107020	0/14	1/15	1/15	8/14	3/13	0/7
PTIII B	17.	U09-204040	0/15	0/16	1/16	0/14	1/13	0/10
PTIII B	18.	U09-213066	0/12	4/7	12/12	129/14	10/13	6/8
PTIII B	19.	U09-219057	0/14	5/15	16/16	0/13	2/12	11/13
PTIII B	20.	U09-224062	1/14	6/13	15/15	13/15	10/15	10/15
PTIII B	21.	U09-225066	2/15	9/12	14/15	13/14	9/12	9/9
PTIII B	22.	U09-227064	0/12	0/16	14/16	0/10	1/17	9/12
PTIII B	23.	U09-315118	0/14	8/11	12/12	13/13	9/14	12/13
PTIII B	24.	U09-315123	1/14	6/15	12/12	14/14	5/10	7/8
PTIII B	25.	U09-317102	0/15	5/14	3/14	3/15	0/13	8/12
PTIII B	26.	U09-317110	0/15	3/11	6/14	3/11	0/17	8/11
PTIII B	27.	U10-429069	0/15	1/11	9/10	1/10	0/13	7/12
PTIII B	28.	U10-430052	0/15	0/10	10/12	0/11	0/8	7/11
PTIII B	29.	U10-436068	4/16	3/13	7/9	10/12	2/7	7/11
PTIII B	30.	U10-442059	3/15	6/14	12/14	14/14	2/13	12/15

Test	Entry #	Strain	R1	R3	R4	R7	R17	R25
			(7)	(1a,7)	(1a,1c,5,7)	(1a,2,3a,3c,4,5,6,7)	(1b,1d,2,3,4,5,6,7,8)	(1a,1b,1c,1k,7)
UTIV	1.	LD00-3309 (IV)	2/16	4/15	12/15	17/17	4/18	10/16
UTIV	2.	IA4005	3/17	9/18	13/16	10/17	3/15	14/17
UTIV	3.	LD00-2817P (L)	1/15	13/17	14/15	16/16	4/17	11/17
UTIV	4.	LD06-7620	6/16	12/17	13/15	17/17	2/13	8/16
UTIV	5.	LG09-7250	9/17	10/15	14/14	16/16	3/13	14/15
UTIV	6.	LG09-8595	5/17	10/14	14/14	17/17	4/14	12/14
UTIV	7.	LS07-1343	1/16	17/17	16/16	17/17	4/17	13/15
UTIV	8.	LS07-2935	0/16	2/12	6/8	11/13	6/13	3/11
UTIV	9.	LS07-3125	1/15	1/13	12/12	15/16	2/17	8/14
UTIV	10.	LS07-3131	0/14	1/15	2/13	14/15	5/16	8/15
UTIV	11.	LS08-5837	0/14	1/8	7/9	13/13	3/10	3/9
UTIV	12.	LS08-6034	0/14	5/12	12/13	12/12	6/12	8/11

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Test	Controls	R1	R3	R4	R7	R17	R25
		(7)	(1a,7)	(1a,1c,5,7)	(1a,2,3a,3c,4,5,6,7)	(1b,1d,2,3,4,5,6,7,8)	(1a,1b,1c,1k,7)
PTIII A	None	2/13	11/13	15/15	8/9	6/12	11/13
&	1a (Harosoy)	0/13	9/9	14/16	7/12	0/16	11/12
PTIII B	1a (Union)	0/14	14/14	14/15	12/15	0/14	11/12
&	1b	0/17	13/16	5/13	0/12	4/15	11/14
UTIV	1c	0/15	15/16	15/15	1/14	0/13	15/16
	1d	2/16	16/16	7/13	9/14	7/16	6/12
	1k	0/16	16/18	14/14	0/12	0/15	13/14
	2	0/14	.	14/17	12/14	8/15	11/15
	3a	0/14	.	8/16	14/16	8/15	1/17
	3b	1/16	.	2/16	2/13	10/13	0/15
	3c	0/15	15/17	6/16	10/14	10/14	1/14
	4	0/15	14/17	6/16	15/15	2/14	0/17
	5	0/16	13/17	8/15	11/15	5/13	3/15
	6	0/16	8/16	3/14	13/14	6/16	0/15
	7	0/13	11/16	14/14	12/15	8/16	10/14
	8	0/11	2/13	0/12	6/10	9/14	1/10

Test	Entry #	Strain	R1	R3	R4	R7	R17	R25
			(7)	(1a,7)	(1a,1c,5,7)	(1a,2,3a,3c,4,5,6,7)	(1b,1d,2,3,4,5,6,7,8)	(1a,1b,1c,1k,7)
PTIV	1.	LD00-3309 (IV)	0/14	0/14	6/14	2/15	1/13	0/13
PTIV	2.	IA4004	0/16	2/14	4/12	2/15	6/13	1/15
PTIV	3.	LD00-2817P (L)	0/17	6/14	10/13	14/16	10/13	2/15
PTIV	4.	K10-2146	0/14	2/11	3/9	6/12	4/10	0/8
PTIV	5.	K10-2644	0/4	0/4	0/2	0/9	0/5	1/3
PTIV	6.	K10-8022	0/4	0/4	1/5	1/4	0/9	1/5
PTIV	7.	K10-8500	0/12	0/5	2/6	1/7	2/7	1/5
PTIV	8.	LG09-7167	0/17	0/11	1/13	6/15	0/15	3/13
PTIV	9.	LG09-8166	0/13	3/13	6/15	10/12	10/15	9/14
PTIV	10.	LG09-8519	0/18	0/15	4/14	2/15	0/16	9/15
PTIV	11.	LG09-8702	0/13	1/14	3/13	10/12	0/15	6/13
PTIV	12.	LG10-2695	0/15	0/13	2/13	12/13	4/14	4/14
PTIV	13.	LG10-3251	0/15	0/14	0/12	3/13	3/16	0/13
PTIV	14.	LG10-3369	1/16	1/14	8/14	14/18	5/13	9/14
PTIV	15.	LS09-1527	2/14	2/11	3/14	12/14	5/12	6/12
PTIV	16.	LS09-1530	0/12	1/11	5/12	14/15	2/9	7/12
PTIV	17.	LS09-1803	0/15	1/12	2/14	11/14	7/13	2/13
PTIV	18.	LS09-2340	0/15	0/14	2/13	0/16	1/13	7/14
PTIV	19.	LS09-2342	0/14	0/10	1/14	0/15	0/12	5/11
PTIV	20.	LS09-2655	0/13	0/15	0/14	1/11	1/13	1/12
PTIV	21.	LS09-2659	1/14	0/12	2/13	6/15	0/14	3/15
PTIV	22.	LS09-2707	0/14	6/11	9/12	10/12	0/13	11/12
PTIV	23.	LS09-2722	0/14	0/13	0/11	1/14	0/14	3/14
PTIV	24.	LS09-5806	0/12	1/10	3/10	0/10	1/13	0/12
PTIV	25.	S10-8471	0/14	0/10	2/10	6/12	3/12	1/9

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Test	Entry #	Strain	R1	R3	R4	R7	R17	R25
			(7)	(1a,7)	(1a,1c,5,7)	(1a,2,3a,3c,4,5,6,7)	(1b,1d,2,3,4,5,6,7,8)	(1a,1b,1c,1k,7)
UT0RR	1.	AG0532	0/13	0/14	0/10	1/15	0/13	11/14
UT0RR	2.	AG0231 (E)	0/17	0/14	7/14	0/15	0/13	6/14
UT0RR	3.	AG0808	0/17	0/14	0/15	0/15	3/16	12/15
UT0RR	4.	AG1230	0/17	0/15	3/13	0/17	1/16	12/17
UT0RR	5.	M06R-613036	0/13	0/14	0/14	5/15	1/14	9/15
UT0RR	6.	M06R-614008	0/16	0/12	2/12	9/14	2/13	2/13
UT0RR	7.	M06R-614016	0/14	0/9	0/12	0/16	3/16	5/15
UT0RR	8.	M06R-619017	0/15	0/10	0/13	0/11	3/14	8/10
UT0RR	9.	M06R-621-1007	0/17	1/13	1/13	9/15	3/16	6/16
UT0RR	10.	M06R-621-1014	0/15	0/13	2/12	12/14	2/15	0/14
UT0RR	11.	M06R-621-7020	0/15	0/13	5/13	16/16	1/12	7/16

Test	Entry #	Strain	R1	R3	R4	R7	R17	R25
			(7)	(1a,7)	(1a,1c,5,7)	(1a,2,3a,3c,4,5,6,7)	(1b,1d,2,3,4,5,6,7,8)	(1a,1b,1c,1k,7)
UTIRR	1.	SD1161RR/(SCN)	0/15	0/10	1/13	14/17	7/14	1/13
UTIRR	2.	AG1230 (E)	0/15	0/14	3/14	0/11	0/15	3/14
UTIRR	3.	U07-135601R	4/13	1/12	9/11	1/15	0/11	1/12
UTIRR	4.	AG2031	0/16	0/14	6/14	0/16	0/16	9/13
UTIRR	5.	M00-530039	0/15	0/13	3/11	7/13	3/12	2/12
UTIRR	6.	M06R-150044	0/16	4/12	6/13	12/15	11/13	11/11
UTIRR	7.	M06R-152009	0/17	0/12	2/12	7/15	1/14	13/15

Test	Entry #	Strain	R1	R3	R4	R7	R17	R25
			(7)	(1a,7)	(1a,1c,5,7)	(1a,2,3a,3c,4,5,6,7)	(1b,1d,2,3,4,5,6,7,8)	(1a,1b,1c,1k,7)
UTIIRR	1.	U06-814223R (II)	0/16	0/15	0/15	1/17	2/15	11/15
UTIIRR	2.	AG2031 (E)	0/16	0/14	4/13	0/13	1/15	9/13
UTIIRR	3.	AG2606	0/16	0/15	4/15	1/18	5/14	9/15
UTIIRR	4.	NEX2905A0R (L)	3/17	1/14	10/15	11/12	8/13	7/13
UTIIRR	5.	U07-135601R	0/13	0/13	0/14	0/9	0/12	4/11
UTIIRR	6.	U07-135636R	0/14	0/14	0/14	0/15	2/15	0/15
UTIIRR	7.	U07-236940R	0/15	0/11	0/14	0/15	0/15	4/15
UTIIRR	8.	U11-607166R	0/14	0/11	0/13	0/11	0/12	3/11
UTIIRR	9.	U11-609163R	0/16	0/11	1/10	0/12	1/13	2/13
UTIIRR	10.	U11-629168R	1/14	0/14	4/11	5/7	6/14	0/10
UTIIRR	11.	U11-638173R	1/14	0/12	0/12	0/12	0/13	1/12
UTIIRR	12.	U11-642173R	0/13	0/14	0/15	0/13	0/11	1/14
UTIIRR	13.	U11-902111R	2/12	0/13	5/13	12/13	10/15	9/14
UTIIRR	14.	U11-902116R	1/17	0/15	11/15	1/11	0/14	6/11
UTIIRR	15.	U11-906115R	0/15	0/15	0/13	0/16	5/13	1/13
UTIIRR	16.	U11-924115R	0/11	0/14	0/15	0/11	1/14	2/11
UTIIRR	17.	U11-924119R	1/16	0/14	0/13	2/13	1/11	5/9
UTIIRR	18.	U11-925119R	0/15	2/14	5/14	8/14	5/16	4/13
UTIIRR	19.	U11-926111R	0/13	2/15	1/15	9/17	5/14	4/15
UTIIRR	20.	U11-927115R	0/15	0/12	0/14	1/17	0/15	3/12
UTIIRR	21.	U11-927121R	0/16	0/13	0/14	0/13	0/14	0/10
UTIIRR	22.	U11-931121R	0/15	0/13	0/13	0/16	0/10	5/15

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Test	Entry #	Strain	R1	R3	R4	R7	R17	R25
			(7)	(1a,7)	(1a,1c,5,7)	(1a,2,3a,3c,4,5,6,7)	(1b,1d,2,3,4,5,6,7,8)	(1a,1b,1c,1k,7)
UTIIIRR	1.	U03-827101 (SCN)	0/16	0/14	2/14	1/13	0/15	5/12
UTIIIRR	2.	NEX2905A0R (E)	0/16	4/14	2/14	6/14	2/13	4/10
UTIIIRR	3.	AG3504	0/17	0/15	3/14	0/12	1/10	3/10
UTIIIRR	4.	AG3803	0/16	0/14	0/14	0/18	0/15	4/16
UTIIIRR	5.	LD09-17071R2	0/14	1/15	2/16	5/15	1/15	4/14
UTIIIRR	6.	LD09-17123R2	0/16	1/10	4/14	8/14	3/15	7/12
UTIIIRR	7.	LD09-17140R2	0/15	2/14	1/14	8/13	3/13	6/15
UTIIIRR	8.	LD09-17213R2	0/16	0/15	1/17	12/14	3/12	5/16
UTIIIRR	9.	LD09-17220R2	0/13	0/15	0/14	11/15	0/15	4/14
UTIIIRR	10.	U11-602165R	4/11	0/13	3/15	2/10	0/13	9/13
UTIIIRR	11.	U11-603167R	0/14	0/13	0/13	1/14	0/11	3/14
UTIIIRR	12.	U11-604181R	0/10	0/14	0/15	0/9	0/14	1/13
UTIIIRR	13.	U11-605178R	0/13	0/14	0/15	0/14	0/16	4/14
UTIIIRR	14.	U11-605186R	0/16	0/13	0/12	0/13	0/15	4/12
UTIIIRR	15.	U11-606184R	0/13	0/10	1/14	1/8	0/15	2/13
UTIIIRR	16.	U11-607174R	1/14	0/11	0/13	0/10	0/15	9/16
UTIIIRR	17.	U11-608163R	0/16	0/12	0/16	0/15	0/13	7/14
UTIIIRR	18.	U11-608165R	0/16	0/15	0/13	0/11	0/13	5/13
UTIIIRR	19.	U11-608172R	0/14	0/13	0/15	0/11	0/15	6/12
UTIIIRR	20.	U11-609165R	0/12	0/14	0/14	0/11	0/13	8/13
UTIIIRR	21.	U11-610186R	0/12	0/10	8/11	0./11	0/12	5/13
UTIIIRR	22.	U11-611178R	0/11	0/6	0/12	0/8	0/13	3/11
UTIIIRR	23.	U11-643172R	0/12	0/7	0/12	0/7	0/13	3/13
UTIIIRR	24.	U11-904117R	0/5	0/9	0/11	9/10	2/11	10/15

Test	Controls	R1	R3	R4	R7	R17	R25
		(7)	(1a,7)	(1a,1c,5,7)	(1a,2,3a,3c,4,5,6,7)	(1b,1d,2,3,4,5,6,7,8)	(1a,1b,1c,1k,7)
PTIV	None	0/14	8/12	10/12	13/15	10/12	2/11
&	1a (Harosoy)	0/15	3/12	5/12	4/15	10/13	3/12
UT0RR	1a (Union)	0/12	4/14	4/11	7/15	4/14	3/15
&	1b	0/15	0/14	0/9	0/15	1/14	3/12
UTIRR	1c	0/15	0/10	10/14	0/16	0/14	5/14
&	1d	0/17	1/9	2/14	0/16	3/13	0/14
UTIIRR	1k	0/17	0/11	0/12	0/17	2/15	5/14
&	2	0/16	0/14	1/11	7/15	1/14	2/13
UTIIIRR	3a	0/15	0/12	0/14	12/15	4/14	1/15
	3b	0/15	0/13	0/12	0/14	1/15	0/15
	3c	0/17	0/12	1/13	3/14	1/15	0/14
	4	0/15	0/10	0/14	3/17	1/11	0/13
	5	0/17	0/15	1/15	5/16	1/13	5/14
	6	0/15	0/12	1/10	6/13	0/13	0/14
	7	0/15	2/14	5/14	4/14	0/14	4/14
	8	1/12	0/10	0/10	4/10	5/13	0/13

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Legend -- X: No Data, O: Mixed Hypocotyl Color, S: Possible Segregating Gene

Uniform Test 00, 2012

Ent.	Strain	Hypocotyl Test (R25) Dead\Total	R25	Hypocotyl Test (R7) Dead\Total	R7	Layer Test (R25) Rep1	Rep2	Rep3	Mean
1.	MN0071 (00)	10\10	S			.	.	7	7.0
2.	Cavalier	0\11	R	12\12	S				
3.	MN0095 (0)	13\13	S			7	5	8	6.7
4.	M03-158071	10\10	S			3	.	5	4.0
5.	M05-350061	0\10	R	5\7	S				.
6.	M06-274009	9\9	S			7	3	9	6.3
7.	M06-274098	11\11	S			5.5	.	9	7.3
8.	M06-289001	9\9	S			7	4.5	4	5.2
9.	M06-296023	10\10	S			6	5	9	6.7
10.	M06-320039	7\8	S			7.5	4	7	6.2
11.	M06-338016	9\9	S			4	4	8	5.3
12.	M06-353010	13\13	S			.	6	.	6.0
13.	M06-378172	9\9	S			9	7	9	8.3
14.	ND09-3153	2\12	R	4\12	H				
15.	ND09-3155	1\8	R	14\14	S				
16.	ND09-3170	2\10	R	14\14	S				
17.	ND09-3175	1\11	R	14\14	S				
18.	ND09-3180	0\12-6	R	12\14	S				
19.	ND09-3344	0\11	R	10\10	S				
20.	ND09-3381	0\9	R	12\12	S				
21.	ND09-3416	0\10	R	12\12	S				
22.	ND09-3437	0\9	R	8\8	S				
23.	ND09-3505	1\12	R	14\14	S				
24.	ND09-3724	0\11	R	4\13	H				
25.	ND09-5706	3\8	R	3\13	H				
26.	ND09-5800	11\12	S			6	.	.	6

Uniform Test 0, 2012

Ent.	Strain	Hypocotyl Test (R25) Dead\Total	R25	Hypocotyl Test (R7) Dead\Total	R7	Layer Test (R25) Rep1	Rep2	Rep3	Mean
1	Sheyenne (0)	10\10	S			5	4	3	4.0
2.	MN1410 (I)	12\12	S			4	5.5	3	4.2
3.	Surge (L)	13\13	S			6	9	9	8.0
4.	MN0095 (E)	13\13	S			8	9	7	8.0
5.	MN0606CN (SCN)	10\11	S			6	6	7	6.3
6.	M03-149100	0\12	R	4\12	*Seg*				
7.	M03-172059	0\10	R	8\14	*Seg*				
8.	M05-243040	0\10	R	13\13	*S*				
9.	M05-363022	12\12	S			4.5	9	6	6.5
10.	ND07-2205	0\12	R	0\15	*R*				
11.	ND07-2303	2\13	R	0\13	*R*				
12.	ND07-3761	9\9	S			3	3	2	2.7
13.	SD07CV-539	9\9	S			3.5	1	2	2.2
14.	SD08CV-0015	12\12	S			4	4	.	4.0
15.	SD08CV-0018	12\12	S			4	5	6	5.0

Preliminary Test 0, 2012

Ent.	Strain	Hypocotyl Test (R25) Dead\Total	R25	Hypocotyl Test (R7) Dead\Total	R7	Layer Test (R25) Rep1	Rep2	Rep3	Mean
1	Sheyenne (0)	8\9	S			5	5	7	5.7
2.	MN1410 (I)	9\9	S			2.5	9	9	6.8
3.	Surge (L)	8\9	S			2	9	7	6.0
4.	MN0095 (E)	1\11	R			8	8	9	8.3
5.	M06-235009	9\10	S			8	9	7	8.0
6.	M06-247018	12\13	S			4	9	9	7.3
7.	M06-337010	3\11	R			3	4	4	3.7
8.	M06-356031	1\9	R	X					
9.	M06-358171	2\12	R	4\12	SEG				
10.	M06-358188	8\15	SEG	4\14	SEG				
11.	M06-361002	0\8	R	1\11	R				
12.	M06-361006	0\11	R	1\14	R				
13.	M06-380029	8\10	S						
14.	M06-381085	11\12	S			6	7	8	7.0
15.	ND06-4642	14\14	S			5	4	4	4.3
16.	ND07-3947	11\12	S			.	8	5.5	6.8
17.	ND08-9127	12\12	S			2	5.5	5	4.2
18.	ND08-9141	11\11	S			6	4	5	5.0
19.	ND08-9273	10\10	S			6	9	8	7.7
20.	ND09-3674	0\10	R	14/14	S				
21.	ND09-4027	0\11	R	12\12	S				
22.	ND09-4322	10\11	S			4	.	3	3.5
23.	ND09-5526	2\12	R	13\14	S				
24.	ND09-5708	0\11	R	8\14	SEG				
25.	ND09-5757	0\11	R	2\15	R				
26.	ND09-5762	3\11	R	0\13	R				
27.	ND09-5764	0\15	R	0\14	R				
28.	OAC 10-06C	13\14	S			2	4	2	2.7
29.	OAC 10-20C	2\10	R	14\14	S				
30.	OAC 10-24C	13\14	S			X	4	9	6.5
31.	SD06-393	14\14	S			6	3	7	5.3
32.	SD06-415	13\13	S			8	X	9	8.5
33.	SD06-418	11\11	S			6	5	6	5.7
34.	SD06-455	12\12	S			6	8	7	7.0
35.	SD09CV-0012	10\11	S			5.5	9	8	7.5
36.	SD09CV-0030	10\10	S			7	9	7	7.7
37.	SD09CV-0047	12\12	S			4	2	3	3.0
38.	SD09CV-0055	11\11	S			.	.	2	2.0
39.	SD09CV-0076	9\9	S			3	8	.	5.5
40.	SD09CV-0133	5\5	S			6	7	8	7.0

2012 Soybean Phytophthora Evaluations - Ohio

Uniform Test I, 2012

Ent.	Strain	Hypocotyl Test (R25) Dead\Total	R25	Hypocotyl Test (R7) Dead\Total	R7	Layer Test (R25) Rep1	Rep2	Rep3	Mean
1	MN1410 (I)	10\11	S			5	5.5	8	6.2
2.	IA1022 (SCN)	9\10	S			.	4	5	4.5
3.	Sheyenne (0)	9\9	S			4	7	9	6.7
4.	A09-753035	11\11	S			4	4	2.5	3.5
5.	A09-754003	9\9	S			.	.	4	4.0
6.	M03-165068	15\15	S			8	5	6	6.3
7.	M05-307064	1\11	R	3\14	*R*				
8.	SD08CV-1041	10\10	S			8	7	7	7.3
9.	SD08CV-1043	10\11	S			9	6	6	7.0
10.	U09-105007	0\10	R	8\11	*S*				
11.	U09-129007	8\9	S			5	.	.	5.0
12.	U09-210042	11\11	S			6	4	6	5.3
13.	U09-210051	11\11	S			6	6	.	6.0
14.	U09-211070	11\11	S			5	7	9	7.0

Preliminary Test I, 2012

Ent.	Strain	Hypocotyl Test (R25) Dead\Total	R25	Hypocotyl Test (R7) Dead\Total	R7	Layer Test (R25) Rep1	Rep2	Rep3	Mean
1	MN1410 (I)	11\11	S			4	5	6	5.0
2.	IA1022 (SCN)	11\12	S			2	4	5	3.7
3.	Sheyenne (0)	7\9	S			4	7	9	6.7
4.	AR11-114002	9\9	S			1.5	.	4	2.8
5.	AR11-114020	11\12	S			2	4	7	4.3
6.	AR11-114021	10\10	S			5.5	2	2	3.2
7.	AR11-114034	10\11	S			8	9	9	8.7
8.	AR11-114041	10\10	S			5	8	8	7.0
9.	AR11-114047	11\11	S			7	7	4	6.0
10.	AR11-114052	12\12	S			2	6	3.5	3.8
11.	AR11-114057	11\12	S			2	4	.	3.0
12.	AR11-114059	12\12	S			5	.	3	4.0
13.	AR11-114062	12\12	S			2	.	6	4.0
14.	AR11-114063	11\11	S			3	8	7	6.0
15.	AR11-114066	9\10	S			4	4	6	4.7
16.	M06-235003	8\10	S			5.5	4	9	6.2
17.	M06-294048	11\12	S			6	9	7	7.3
18.	M06-310036	11\11	S			4	3	9	5.3
19.	M06-310039	12\12	S			4.5	7	7	6.2
20.	M06-337011	10\10	S			5.5	6	9	6.8
21.	M06-337041	14\14	S			7	7	7	7.0
22.	M06-355049	7\7	S			.	7	7	7.0
23.	M06-382188	10\10	S			.	5	7	6.0
24.	OAC 10-32C	12\12	S			5	6	9	6.7
25.	OAC 10-36C	12\12	S			.	4	.	4.0

26.	OAC 10-38C	10\10	S			5	7	9	7.0
27.	OAC 10-40C	13\13	S			5	8	9	7.3
28.	SD09CV-1018	11\11	S			5	8	4	5.7
29.	SD09CV-1029	9\9	S			9	4	7	6.7
30.	SD09CV-1040	9\9	S			5	7	4	5.3
31.	SD09CV-1041	10\10	S			8	7	9	8.0
32.	SD09CV-1152	11\11	S			.	4	9	6.5
33.	SD09CV-1515	12\12	S			7	9	9	8.3
34.	SD09CV-1565	10\10	S			7	6	9	7.3
35.	SD09CV-1606	11\11	S			6	2	9	5.7
36.	SD09CV-1622	14\14	S			6	6	9	7.0
37.	SD09CV-2304	9\9	S			6	6	9	7.0
38.	U09-118017	9\9	S			8	8.5	9	8.5
39.	U09-119024	12\12	S			6	6	7	6.3
40.	U09-211051	11\11	S			6	9	9	8.0

Uniform Test II, 2012

		*Hypocotyl Test (R25)		Hypocotyl Test (R7)		Layer Test (R25)			
Ent.	Strain	Dead\Total	R25	Dead\Total	R7	Rep1	Rep2	Rep3	Mean
1	IA 2102 (II)	10\10	S			8	6	9	7.7
2.	IA1022 (SCN)	14\14	S			2.5	6	3	3.8
3.	IA3024	12\12	S			4	5	4	4.3
4.	LD02-4485 (SCN)	0\9	R	6\6	S				
5.	A09-755015	0\11	R	12\12	S				
6.	AR09-192019	0\14	R	13\13	S				
7.	AR09-292004	0\9	R	11\15	S				
8.	AR10-106008	0\8	R	10\11	S				
9.	AR10-206012	0\13	R	11\11	S				
10.	AR10-206073	0\12	R	7\13	SEG				
11.	AR10-206075	0\10	R	11\11	S				
12.	E09090	0\9	R	15\15	S				
13.	LD08-12428a	7\8	S			3	6	9	6.0
14.	LD08-6982	9\9	S			4.5	.	9	6.8
15.	LD08-12435a	13\13	S			4	9	9	7.3
16.	HM09-W146	0\12-4	R	0\13	R				
17.	SD07CV-631	9\10-1	S			4.5	6	6	5.5
18.	SD08CV-2102	12\12	S			4	.	7	5.5
19.	U09-215057	8\10-1	S			3	8	6	5.7
20.	U09-224078	10\10	S			5	4	4	4.3
21.	U09-310098	10\10	S			4.5	9	5	6.2
22.	U09-311114	11\11	S			4	8	9	7.0
23.	U09-312115	11\11	S			6.5	4	7	5.8
24.	U09-316113	8\8	S			5	9	9	7.7
25.	U09-317120	11\11	S			7	7	9	7.7

*UTII was the last set to be completed with R25 Hypocotyl Test I on August 12, 2012. Hypocotyl Test II begins with PTIIA and was completed on August 31, 2012.

Preliminary Test IIA, 2012

Ent.	Strain	Hypocotyl Test (R25) Dead\Total	R25	Hypocotyl Test (R7) Dead\Total	R7	Layer Test (R25) Rep1	Rep2	Rep3	Mean
1	IA 2102 (II)	10\10	S			5	.	9	7.0
2.	IA1022 (SCN)	10\10	S			5	.	4	4.5
3.	IA3024	9\9	S			5	4	7	5.3
4.	AR10-106014	10\10	S			7	.	9	8.0
5.	AR10-206106	10\10	S			.	.	9	9.0
6.	AR11-114003	9\9	S			4	.	5	4.5
7.	AR11-214001	11\11	S			6	4	4	4.7
8.	AR11-214019	10\10	S			4	4	9	5.7
9.	AR11-214022	9\9	S			4	.	.	4.0
10.	AR11-214023	9\9	S			4	.	.	4.0
11.	AR11-214035	8\8	S			3	.	6	4.5
12.	AR11-214062	9\9	S			6	.	.	6.0
13.	LD09-16058	8\8	S			4.5	.	3	3.8
14.	LD09-30015	9\9	S			5.5	3	5	4.5
15.	LG10-1562	11\11	S			5.5	3	5	4.5
16.	LG10-1594	6\10	SEG	2\14	R				.
17.	LG10-1569	8\8	S			8.5	3	7.5	6.3
18.	SD09CV-2018	11\11	S			2.5	4	3.5	3.3
19.	SD09CV-2038	11\11	S			7	5.5	6	6.2
20.	SD09CV-2085	10\10	S			4	3.5	6.5	4.7
21.	SD09CV-2095	11\11	S			3.5	4	3.5	3.7
22.	SD09CV-2096	9\9	S			5.5	3.5	6.5	5.2
23.	SD09CV-2116	11\11	S			4	3.5	S 4.5	3.8
24.	SD09CV-2356	X-POOR GERM				.	.	.	
25.	SD09CV-2392	5\11	SEG	11\12	*S*				

Preliminary Test IIB, 2012

Ent.	Strain	Hypocotyl Test (R25) Dead\Total	R25	Hypocotyl Test (R7) Dead\Total	R7	Layer Test (R25) Rep1	Rep2	Rep3	Mean	
1	IA 2102 (II)	11\11	S			7	6.5	8	7.2	
2.	IA1022 (SCN)	11\11	S			5	7.5	8	6.8	
3.	IA3024	10\10	S			6	4.5	4.5	5.0	
4.	E10169	10\10	S			4	.	3	3.5	
5.	E10254LL	11\11	S			6.5	5.5	7.5	6.5	
6.	E10265LL	10\10	S			6.5	3.5	7.5	5.8	
7.	HM09-W084	10\11	S			2.5	3.5	3.5	3.2	
8.	HM10-W314	9\9	S			4	4.5	7.5	5.3	
9.	HR09-720	8\11	S			1	1	1	1.0	R-GENE
10.	HR09-728	4\4	S			1	1	1	1.0	R-GENE
11.	HR09-734	4\9	SEG			1	1	1	1.0	R-GENE
12.	U09-118015	10\10	S			6.5	7.5	8	7.3	
13.	U09-121013	10\10	S			8	4.5	5	5.8	
14.	U09-133005	9\9	S			6.5	7	8	7.2	
15.	U09-133021	9\9	S			5.5	7.5	7	6.7	

16.	U09-135022	10\10	S		4	7.5	8.5	6.7
17.	U09-137003	8\8	S		5.5	7.5	9	7.3
18.	U09-202083	8\10	S		2.5	2.5	2.5	2.5
19.	U09-210041	11\11	S		8	7.5	7.5	7.7
20.	U09-210049	8\9	S		9	6	7.5	7.5
21.	U09-210055	10\10	S		7	6.5	7.5	7.0
22.	U09-211046	10\10	S		8	7	8	7.7
23.	U09-211049	10\10	S		7.5	8.5	8.5	8.2
24.	U09-213068	11\11	S		8.5	6.5	9	8.0
25.	U09-220070	X			6.5	4	9	6.5

Uniform Test III, 2012

		Hypocotyl Test (R25)		Hypocotyl Test (R7)		Layer Test (R25)			
Ent.	Strain	Dead\Total	R25	Dead\Total	R7	Rep1	Rep2	Rep3	Mean
1	IA3023 (III)	11\11	S			5	6.5	4	5.2
2.	IA3024	10\10	S			5	4	4	4.3
3.	IA3048 (SCN)	10\10	S			7	4	5.5	5.5
4.	IA4005	10\10	S			7.5	4.5	6.5	6.2
5.	AR10-306021	8\8	S			9	6	3.5	6.2
6.	LD07-3419	11\11	S			.	4.5	7	5.8
7.	LD07-4477	8\8	S			5.5	4	4.5	4.7
8.	LD08-1592	10\10	S			5.5	6.5	4.5	5.5
9.	LD08-2355	9\9	S			6.5	7	4	5.8
10.	LD08-6972	7\7	S			8	5.5	8.5	7.3
11.	LD08-8622	11\11	S			5.5	4.5	7.5	5.8
12.	LG09-8545	10\10	S			5.5	5	4.5	5.0

Preliminary Test IIIA, 2012

		Hypocotyl Test (R25)		Hypocotyl Test (R7)		Layer Test (R25)				
Ent.	Strain	Dead\Total	R25	Dead\Total	R7	Rep1	Rep2	Rep3	Mean	
1	IA3023 (III)	11\11	S			6	4.5	5.5	5.3	
2.	IA3024	10\10	S			5	6.5	4.5	5.3	
3.	IA3048 (SCN)	8\8	S			2.5	4.5	4	3.7	
4.	IA4005	10\10	S			2.5	6.5	6	5.0	
5.	AR09-292051	11\11	S			6	4	6.5	5.5	
6.	AR10-206003	10\10	S			3	5	7	5.0	
7.	AR11-214003	10\10	S			2.5	4.5	3.5	3.5	
8.	AR11-214013	10\10	S			4.5	5	3.5	4.3	
9.	AR11-214015	11\11	S			4.5	6	5	5.2	
10.	AR11-214032	10\10	S			7	4	2.5	4.5	
11.	AR11-214034	9\9	S			7	5.5	7	6.5	
12.	AR11-314003	10\10	S			4	4.5	4	4.2	
13.	AR11-314011	9\9	S			7	7	6.5	6.8	
14.	AR11-314015	12\12	S			6.5	5.5	8.5	6.8	
15.	AR11-314016	11\11	S			6	6	7	6.3	
16.	AR11-314018	11\11	S			3.5	4	6.5	4.7	
17.	AR11-314023	12\12	S			4.5	4.5	5	4.7	
18.	AR11-314026	11\11	S			8.5	7	9	8.2	
19.	AR11-314030	12\12	S			4.5	3	5.5	4.3	
20.	HR09-706	7\9	S			2	1.5	3	2.2	R-GENE

21.	HR09-730	9\11	S			1	1	1	1.0	R-GENE
22.	HM09-W054	10\10	S			6	7.5	6.5	6.7	
23.	HM09-W063	11\11	S			5	4.5	8	5.8	
24.	HM09-W150	12\12	S			6.5	5.5	8.5	6.8	
25.	HM09-W158	10\11	S			6	5	8.5	6.5	
26.	HM09-W174	11\11	S			5	3.5	8.5	5.7	
27.	HM10-W081	2\10	R	7\13	*SEG*					
28.	HS8-3463	3\9	R	13\15	S					
29.	LD08-RST5-10	10\10	S			7.5	6	7	6.8	
30.	LD09-42	10\10	S			7.5	3.5	5	5.3	
31.	LD09-10220	7\9	S			1	1.5	2.5	1.7	R-GENE
32.	LD09-30208	10\10	S			8.5	4.5	9	7.3	

Preliminary Test IIIB, 2012

		Hypocotyl Test (R25)		Hypocotyl Test (R7)		Layer Test (R25)				
Ent.	Strain	Dead\Total	R25	Dead\Total	R7	Rep1	Rep2	Rep3	Mean	
1	IA3023 (III)	11\11	S			5.5	5	7.5	6.0	
2.	IA3024	8\8	S			5.5	4.5	4.5	4.8	
3.	IA3048 (SCN)	9\9	S			6.5	5	7	6.2	
4.	IA4005	10\10	S			7.5	4.5	7.5	6.5	
5.	E10173	10\10	S			2	1.5	1.5	1.7	R-GENE
6.	E10174	10\10	S			2.5	3.5	1.5	2.5	
7.	K10-2385	12\12	S			5.5	4	8	5.8	
8.	LG08-3607	10\10	S			7	5	4.5	5.5	
9.	LG09-7157	11\11	S			6	4	5.5	5.2	
10.	LG09-7163	11\11	S			7.5	4.5	7.5	6.5	
11.	LG09-7431	9\9	S			8	7	8	7.7	
12.	LG09-7823	11\13	S			5.5	2	4	3.8	
13.	LG09-8078	10\10	S			8	9	8	8.3	
14.	LG09-8165	11\11	S			7	3	5	5.0	
15.	LG10-2970	11\11	S			4.5	6	4.5	5.0	
16.	U09-107020	0\10	R	14\15	*S*					
17.	U09-204040	0\9	R	6\13	*SEG*					
18.	U09-213066	9\9	S			7	6.5	5	6.2	
19.	U09-219057	10\10	S			7.5	7	6.5	7.0	
20.	U09-224062	9\9	S			4	7.5	6.5	6.0	
21.	U09-225066	10\10	S			8	6.5	8.5	7.7	
22.	U09-227064	11\11	S			6.5	6.5	5.5	6.2	
23.	U09-315118	10\10	S			8.5	8	6.5	7.7	
24.	U09-315123	10\10	S			3.5	7	7.5	6.0	
25.	U09-317102	9\9	S			6	7.5	6.5	6.7	
26.	U09-317110	12\12	S			6	6	6.5	6.2	
27.	U10-429069	8\8	S			6.5	4	3.5	4.7	
28.	U10-430052	5\6	S			6	4	7	5.7	
29.	U10-436068	7\7	S			7.5	7	5.5	6.7	
30.	U10-442059	10\10	S			7.5	3.5	7	6.0	

2012 Soybean Phytophthora Evaluations - Ohio

Uniform Test IV, 2012

Ent.	Strain	Hypocotyl Test (R25) Dead\Total	R25	Hypocotyl Test (R7) Dead\Total	R7	Layer Test (R25) Rep1	Rep2	Rep3	Mean
1	LD00-3309 (IV)	9\9	S			6.5	4.5	3.5	4.8
2.	IA4005	9\9	S			5	4.5	4.5	4.7
3.	LD00-2817P (L)	8\9	S			8	4	4.5	5.5
4.	LD06-7620	11\11	S			5.5	5	4.5	5.0
5.	LG09-7250	10\10	S			5.5	4.5	4	4.7
6.	LG09-8595	10\10	S			5	5.5	3	4.5
7.	LS07-1343	10\10	S			7	4	4.5	5.2
8.	LS07-2935	9\9	S			7	4	2	4.3
9.	LS07-3125	10\10	S			6	4.5	3.5	4.7
10.	LS07-3131	10\10	S			6.5	5.5	3.5	5.2
11.	LS08-5837	7\7	S			5	4.5	7.5	5.7
12.	LS08-6034	9\9	S			7.5	6.5	6.5	6.8

Preliminary Test IV, 2012

Ent.	Strain	Hypocotyl Test (R25) Dead\Total	R25	Hypocotyl Test (R7) Dead\Total	R7	Layer Test (R25) Rep1	Rep2	Rep3	Mean
1	LD00-3309 (IV)	10\10	S			6.5	4.5	5.5	5.5
2.	IA4004	9\9	S			4.5	6.5	4.5	5.2
3.	LD00-2817P (L)	10\10	S			4.5	6	3.5	4.7
4.	K10-2146	10\10	S			6.5	6.5	7.5	6.8
5.	K10-2644	7\7	S			7	7	6.5	6.8
6.	K10-8022	6\6	S			6.5	4.5	4.5	5.2
7.	K10-8500	3\3	S			6.5	4.5	6	5.7
8.	LG09-7167	11\11	S			4.5	4.5	4.5	4.5
9.	LG09-8166	9\9	S			7.5	7	5.5	6.7
10.	LG09-8519	11\11	S			7.5	6.5	6	6.7
11.	LG09-8702	10\10	S			7	7	7.5	7.2
12.	LG10-2695	9\9	S			7.5	5	1.5	4.7
13.	LG10-3251	10\10	S			4.5	5	5	4.8
14.	LG10-3369	11\11	S			7.5	3.5	5.5	5.5
15.	LS09-1527	9\9	S			7	6.5	7	6.8
16.	LS09-1530	10\10	S			7	5	8.5	6.8
17.	LS09-1803	10\10	S			7.5	5.5	8.5	7.2
18.	LS09-2340	8\8	S			7	6	9	7.3
19.	LS09-2342	9\9	S			7.5	8	7	7.5
20.	LS09-2655	8\8	S			7	5.5	7.5	6.7
21.	LS09-2659	7\7	S			4.5	6.5	7	6.0
22.	LS09-2707	7\7	S			5	7.5	8.5	7.0
23.	LS09-2722	11\11	S			7.5	7	6.5	7.0
24.	LS09-5806	8\8	S			6	7.5	8.5	7.3
25.	S10-8471	5\6	S			5.5	2.5	8	5.3

2012 Soybean Phytophthora Evaluations - Ohio

Uniform Test 0 Roundup-Ready, 2012

Ent.	Strain	Hypocotyl Test (R25) Dead\Total	R25	Hypocotyl Test (R7) Dead\Total	R7	Layer Test (R25) Rep1	Rep2	Rep3	Mean
1	Commercial AG0532	9\9	S			7.5	4.5	7	6.3
2.	Commercial AG0231 (E)	10\10	S			5	6	5	5.3
3.	AG0808	10\10	S			4	7	6.5	5.8
4.	Commercial AG1230	11\11	S			5	7	8	6.7
5.	M06R-613036	10\10	S			6.5	6	4	5.5
6.	M06R-614008	10\10	S			5	4.5	4	4.5
7.	M06R-614016	8\8	S			7	5	4	5.3
8.	M06R-619017	11\11	S			7.5	6	6.5	6.7
9.	M06R-621-1007	8\9	S			4	3.5	3	3.5
10.	M06R-621-1014	0\9	R	15\15	*S*				
11.	M06R-621-7020	10\11	S			5	6.5	3.5	5.0

Uniform Test I Roundup-Ready, 2012

Ent.	Strain	Hypocotyl Test (R25) Dead\Total	R25	Hypocotyl Test (R7) Dead\Total	R7	Layer Test (R25) Rep1	Rep2	Rep3	Mean
1	SD1161RR/(SCN)	10\10	S			5.5	7	8.5	7.0
2.	AG1230 (E)	9\9	S			7	7	7.5	7.2
3.	U07-135601R	10\10	S			5	3.5	3.5	4.0
4.	AG2031	11\11	S			6	5.5	4.5	5.3
5.	M00-530039	9\9	S			7	6.5	6.5	6.7
6.	M06R-150044	11\11	S			6	5.5	5	5.5
7.	M06R-152009	11\11	S			7	6.5	8.5	7.3

Uniform Test II Roundup-Ready, 2012

Ent.	Strain	Hypocotyl Test (R25) Dead\Total	R25	Hypocotyl Test (R7) Dead\Total	R7	Layer Test (R25) Rep1	Rep2	Rep3	Mean
1	U06-814223R (II)	9\9	S			7	7	6.5	6.8
2.	AG2031 (E)	11\11	S			6	6.5	4.5	5.7
3.	AG2606	11\11	S			7	5.5	7	6.5
4.	NEX2905A0R (L)	10\10	S			7	7	8.5	7.5
5.	U07-135601R	7\7	S			5	5.5	7	5.8
6.	U07-135636R	11\11	S			4.5	6	7	5.8
7.	U07-236940R	9\9	S			6	6.5	6.5	6.3
8.	U11-607166R	10\10	S			7.5	6.5	4.5	6.2
9.	U11-609163R	9\9	S			7	4.5	3.5	5.0
10.	U11-629168R	11\11	S			6	5	4	5.0
11.	U11-638173R	9\9	S			6.5	3.5	8.5	6.2
12.	U11-642173R	10\10	S			6	6	3.5	5.2
13.	U11-902111R	12\12	S			7	7	7	7.0
14.	U11-902116R	9\10	S			6.5	7	5	6.2
15.	U11-906115R	9\9	S			5.5	5	4.5	5.0
16.	U11-924115R	10\10	S			6.5	3.5	8.5	6.2
17.	U11-924119R	11\11	S			4.5	3.5	7	5.0
18.	U11-925119R	10\10	S			6.5	4	5	5.2
19.	U11-926111R	11\11	S			6.5	4	6.5	5.7
20.	U11-927115R	11\11	S			4.5	3.5	6.5	4.8
21.	U11-927121R	10\10	S			6	4.5	6.5	5.7
22.	U11-931121R	11\11	S			7	5.5	6.5	6.3

2012 Soybean Phytophthora Evaluations - Ohio

Uniform Test III Roundup-Ready, 2012

Ent.	Strain	Hypocotyl Test (R25) Dead\Total	R25	Hypocotyl Test (R7) Dead\Total	R7	Layer Test (R25) Rep1	Rep2	Rep3	Mean
1	U03-827101 (SCN)	9\9	S			8	7	7.5	7.5
2.	NEX2905A0R (E)	10\10	S			8	4.5	8	6.8
3.	AG3504	11\11	S			6	7.5	7	6.8
4.	AG3803	9\9	S			6	5	6.5	5.8
5.	LD09-17071R2	8\8	S			7.5	5	6.5	6.3
6.	LD09-17123R2	10\10	S			5.5	5	5.5	5.3
7.	LD09-17140R2	8\8	S			6	5	6	5.7
8.	LD09-17213R2	12\12	S			6	4	7.5	5.8
9.	LD09-17220R2	11\11	S			5	5	8	6.0
10.	U11-602165R	10\10	S			6.5	5	8	6.5
11.	U11-603167R	10\10	S			8	4	8.5	6.8
12.	U11-604181R	10\10	S			7.5	6.5	9	7.7
13.	U11-605178R	10\10	S			8	8	7.5	7.8
14.	U11-605186R	9\9	S			6	3	8	5.7
15.	U11-606184R	8\8	S			4	7.5	6.5	6.0
16.	U11-607174R	11\11	S			6.5	4	4.5	5.0
17.	U11-608163R	10\10	S			7	5	8.5	6.8
18.	U11-608165R	8\8	S			6.5	6.5	8	7.0
19.	U11-608172R	11\11	S			7	3.5	6.5	5.7
20.	U11-609165R	8\8	S			7	7	8.5	7.5
21.	U11-610186R	10\10	S			6	3	8	5.7
22.	U11-611178R	12\12	S			6.5	4.5	7.5	6.2
23.	U11-643172R	8\8	S			5.5	5	7	5.8
24.	U11-904117R	11\11	S			8	7	6.5	7.2

Checks

R25 Layer Test II 12/12/2012

	Replications: 1.1	1.2	2.1	2.2	3.1	3.2	Mean
L83-570 (Rps3a)	5.5	2.5	1.5	3.5	3	.	3.2
Conrad	5.5	4.5	3.5	4	6	4.5	4.7
Sloan	8.5	4.5	5	5	5.5	5.5	5.7
OX-20 (1a)	8	7.5	5.5	7	8.5	7.5	7.3
Williams 82 (1k)	3.5	5	6	8	8	7	6.3
Resnik (1k)	6	7.5	8	4	9	5	6.6
Williams 79 (1c)	4.5	7	7.5	4	6.5	3.5	5.5

2012 Soybean Phytophthora Evaluations - Ohio

R7 Hypocotyl Test 11/1/2012

	Dead\Total
Williams (rps)	12\12
Rps1a	6\12
1b	6\14
1c	3\14
1d	11\13
1k	6\9
2	10\11
3a	14\14
3b	1\13
3c	9\9
4	14\14
5	14\14
6	14\14
7	12\12
8	7\9

R25 Hypocotyl Test I 8/12/2012

	Dead\Total	
Williams (rps)	9\9	
Rps1a	10\10	
1b	9\9	
1c	11\11	
1d	10\11	
1k	6\6	
2	8\11-3	-3 lesions
3a	3\8-3	
3b	4\10-5	
3c	0\5	
4	0\11	
5	3\10-1	
6	0\10	
7	9\9	
8	0\5-5	

	Dead\Total
Williams (rps)	13\13
Rps1a	11\11
1b	9\9
1c	9\9
1d	8\9
1k	11\11
2	1\9
3a	4\12
3b	1\12
3c	2\6
4	2\11
5	4\12
6	1\11
7	5\7
8	1\6

R25 Hypocotyl Test II 8/31/2012

	Dead\Total
Williams (rps)	8\8
Rps1a	11\11
1b	12\12
1c	10\10
1d	11\11
1k	10\10
2	5\9
3a	11\11
3b	1\14-9
3c	2\11
4	0\11
5	8\12
6	1\13
7	13\13
8	3\14-9

	Dead\Total
Williams (rps)	12\12
Rps1a	13\13
1b	11\11
1c	10\10
1d	12\12
1k	10\10
2	4\10-5
3a	5\10-3
3b	2\13-4
3c	7\14
4	0\13
5	5\11-5
6	2\14
7	12\12
8	6\12

IDENTIFICATION OF PARENT STRAINS 2012

Strain	Parentage
A1	Anoka x Mack
A4	L15 x AP68-1016
A8	A4 x Century
A20	BSR101 x CN210
A55-5629-4	Roanoke x Hawkeye
A75-204018	IVR4731 x Wirth
A76-304020	(Beeson x AP68-1016) x (L15 x Calland)
A79-136012	Pride B216 x Land 0' Lakes 4102
A80-244003	NK S1492 x Pella
A80-346029	A75-204018 x BSR 301
A81-356022	Century x A76-304020
A83-271027	NK S1492 x A3127
A86-301024	A81-356022 x Hack
A87-296011	Harper x A80-346029
A92-525014	IA2008 x Kenwood
A92-526007	A20 x Asgrow A2234
A92-535029	
A95-581028	Marcus x Pioneer 9273
A95-583021	P.9241 x Jack
A96-591033	IA3003 x Pioneer P9273
A97-770051	Pioneer 9273 x (A92-535059 x IA1006)
A97-871009	NKS20-12 x (A92-535029 x IA2021)
A00-711042	Pioneer P9321 xIA2036
A00-882130	
A02-381100-1538	IA2064 x XB27U01
A02-381100-1539	IA2064 x XB27U01
A03-841045	
A04-543043	Pioneer 92B12 x A00-711042
A14743B002	1% Linolenic Acid Line
Agripro AP1953	Unknown
Agripro AP1995	Unknown
Agripro 68-1016	Clark (5) x PI 84.946-2
AgriPro 98180-A01-06131	
Agripro 98620-B01-51163	
Agripro96596-B99-24476	
Agripro96289-A99-31240	
AR3 (A00-882130)	(Northrup King S20-20 x Asgrow 2234) x Pioneer 9254
AR02-101001	Pioneer P9233 x A96-591033
AR03-161009	(PI 507354 x Marcus) x IA1008
AR03-163008	Ripley x IA1008
AR03-263051	LS90-1920 x IA1008
AR03-361019	IA1008 x Ripley
AR03-361062	IA1008 x Ripley
AR03-361065	IA1008 x Ripley
AR03-263051	LS90-1920 x IA1008
AR04-874013	Pioneer P9233 x A95-682026
AR04-874018	Pioneer 9254 x (Northrup King S20-20 x Asgrow 2234)
AR04-874024	(Pioneer 9233 x (Pioneer 9273 x (Jacques J231 x A8)
AR05-150079	Pana x Agripro 96596-B99-24476
AR05-150102	Syngenta S25-J5 x IA 2050
AR05-150109	S25-J5 x IA2050
AR05-250043	Pana x Agripro 96596-B99-24476

IDENTIFICATION OF PARENT STRAINS 2012

Strain	Parentage
AR05-250117	Hei-lung x Loda
AR05-250118	Hei-lung xDwight
AR05-250103	Syngenta S10-F2 x Dwight
AR05-250104	
AR05-250110	Loda x Syngenta S10-F2
AR06-164033	Agripro96289-A99-31240 x Golden Harvest H-2285
AR06-264007	Loda x Syngenta S10-F2
AR06-264025	Golden Harvest H-2285 x Syngenta S18-N5
AR06-364046	Agripro96596-B99-24476 x Agripro96289-A99-31240
Asgrow A1564	Hark x C1453
Asgrow A2234	[(Calland x Amsoy) x (Century(3) x Williams82)]
Asgrow A2506	
Asgrow A2943	Asgrow A1564 x Asgrow A3127
Asgrow A3017	
Asgrow A3127	Williams x Essex
Asgrow A3659	Williams x Essex
Asgrow A3860	Williams x Essex
Asgrow A3935	MO474C x Asgrow A3127
Asgrow A4009	Asgrow A3860 x Fayette
Asgrow A4138	Asgrow A4595 x Asgrow A4009
Asgrow A4595	Douglas x Asgrow A3127
Asgrow A5475	(Tracy x d5064) x Bedford
AX56P64-1	Adams x Harosoy
AXN1-55	Asgrow A2506 x Syngenta S19-90
C1079	Lincoln x Ogden
C1253	Blackhawk x Harosoy
C1266R	Harosoy x C1079
C1453	C1266R x C1253
C1842	[Spencer (2) x Pella 86] x Resnik
C1907	A87-296011 x CX1039-99
C1944	CRS3-998-24-1 x HC85-2206
CL0J173-6-8	Kottman x Dwight
CM293	
CRS3-998-24-1	Sel from High Pro Recurrent Sel Pop.
CX1039-99	Cutler 71(3) x Pando
CX1538-70-11-1	Low Palmitic Acid line from J. R. Wilcox
CX1834-1-2	Athow x M153-1-4-6-14
CX1834-1-6	Athow x M153-1-4-6-14
Dairyland 99540	
Dairyland 99630	na
Dairyland 99733	
Dairyland 99805	
Dairyland 99846-74	na
Dairyland DSR 304	Williams x Unknown
Dekalb 339c	
Dekalb 411	
Dekalb 420c	
E00003	Agripro AP1995 x Pioneer P9281
GarstAgripro b99-17498	
Golden Harvest 24040	
Golden Harvest H-2632	
Golden Harvest H2885	

IDENTIFICATION OF PARENT STRAINS 2012

Strain	Parentage
G00-3213	N7001 x Boggs
HC85-2206	Elf x Williams 82
HC99-2763	
HF03-546	A95-581028 x PI592.926
HFPR-4	Kottman[4] x (PI 399.073 x S19-90)
HS0-3243	HS93-4118 x Kottman
HS1-3661	HS93-4118 x P9352
HS3-2523	HS97-5261 x Kottman
HS3-2669	U97-3114 x HS97-5261
HS4-9864	HS99-4256 x Dilworth
HS8-3463	OHS 303(3) x (Williams x PI 424354)
HS88-4988	Winchester x A83-271027
HS88-7363	Voris 311 x Resnik
HS91-4825	Burlison x A86-301024
HS93-4118	IA 2007 x Dairyland DSR 304
HS94-4530	HS88-7363 x HS88-4988
HS97-5261	HS94-4530 x IA 3004
HS98-3628	Defiance x HS91-4825
HS99-4256	HS94-4530 x IA 3004
IVR 1120	Provar x (AX56P64-1 x PI 191.110-1)
IVR4731	Amsoy x Wayne
Korada	unknown
KG20	McCall x 2S11
K1454	KS4694 x HS90-3487
K1599	
K99-14	IA3010 x STS line fromDupont
K03-2897	K1454 x HS93-4118
K03-2399	K99-14 x SS96-10704
K03-3825	K1433 x HS93-4118
K07-121	35.TCS x L93-0375
Land O' Lakes 4102	[Wayne x (Clark x Adams)] x Cutler
L15	Wayne (6) x Clark 63
L57-0034	Clark x Adams
L66L-154	Wayne x L57-0034
L73-4673	Corsoy x L66L-154(Williams sib)
L77-994	Williams x PI 88.788
L78-189	Corsoy x Kingwa
L85P-558	L73-4673 x Fayette
LD00-1938	Pana x Savoy
LD00-2817	Ina x Dwight
LD00-3296	LN95-5724 x Pana
LD01-5907	Ina x IA3010
LD01-7323	LN95-5454 x Dwight
LD02-4485	M90-184111 x IA3010
LD03-7607	LN95-5817 x IA3010
LD03-7610	LN95-5817 x IA3010
LD03-10487	LN97-26569 x A98-781041
LD05-3230	S25-J5 x LD00-3296
LD05-16521	Loda(4) X (Dowling x Dwight)
LDXG04023-1	
LG00-3372	PI 561.319A x PI 574.477
LG00-6182	F6 PI 561.319A x PI 574.477

IDENTIFICATION OF PARENT STRAINS 2012

Strain	Parentage
LG00-6925	F6 IA2022 x LG91-6859
LG00-7196	F5 LG93-7780 x Macon
LG00-8298	F6 PI 574.477 x PI 561.377
LG00-8301	PI 574477 x PI 561377
LG02-3693	F6 Macon(2) x PI 438.205
LG02-3733	LG94-1133 x LG92-1255
LG02-3969	F6 LG91-7350Rx LG94-1133
LG02-3971	F6 LG91-7350Rx LG94-1133
LG03-1534	F6 LG96-3089 x LG94-1713
LG03-1614	F5 LG96-1488 x LG97-7363
LG03-1672	F5 LG97-5474 x IA3010
LG03-2979	F6 Rend x LG95-258
LG03-3020	F6 LG96-1711 x LG92-4208
LG04-6400	HS93-4118 x LG97-9912
LG07-8109	Reselection
LG84-1269	F5 PI 227.333 x PI 91.730-1
LG85-3343	PI 361064 x PI 407710
LG86-3574	F5 PI 424.159B x PI 407.710
LG86-6989	F9 PI 253.665D x PI 283.331
LG87-1606	F5 PI 297.544 x PI 391.583
LG87-1991	PI 189930 x PI 68600
LG87-429	F8 297.544 x PI290.126B
LG88-2044	F6 A78-123018 x PI 438.205B
LG88-2248	F6 PI 438.151 x A78-123018
LG88-2694	F6 Ripley x PI 370.059
LG88-2696	F6 Ripley x 370.059
LG88-3146	F6 PI 427.099 x PI 445.830
LG89-7629	F5 Ripley x PI445.837
LG89-8665	F5 436.682 x Ripley
LG90-2179	F6 P I437.851A x Ripley
LG91-6859	F6 LG87-429 x Zane
LG91-7350R	F10 PI 68508 x FC 04007B
LG92-4208	F6 LG84-1269 x Chamberlain
LG93-7780	F6 LG86-6989 x A3205
LG94-1133	LG85-3343 x LG87-1991
LG94-1713	F6 LG87-1606 x Kenwood
LG95-258	F5 LG86-3574 x LG88-2694
LG96-1488	F6 LG89-8665 x LG88-2696
LG96-1711	F6 LG88-3146 x LG88-2248
LG96-3089	F6 LG88-2044 x LG89-7629
LG97-1192	
LG97-5474	F6 P6906-16 x P5096-03D
LG97-7363	F6 LG90-2179 x LG88-3146
LN95-5454	Jack x IA3003
LN95-5724	Jack x C1842
LN95-5817	Jack x C1842
LN97-15076	Macon x Stressland
LN97-26569	Yale x Macon
LS00-4221	
LS01-1734	LS93-0375 x IA3005
LS01-1987	
LS01-3615	LS93-0375 x Mustang

IDENTIFICATION OF PARENT STRAINS 2012

Strain	Parentage
LS02-2213	
LS02-0425	
LS93-0375	Asgrow A3935 x Pioneer P9402
LS98-0582	Northrup King S46-44 x Asgrow A4138
M0835	IVR 1120 x Calland
M10	Lincoln(2) x Richland
M153	M153 mutant line.
M30121	
M42-37	Lincoln(2) x Richland
M54-139	Renville x Capital
M54-240	Korean x M42-37
M59-120	M54-240 x M54-139
M63-194	Corsoy x PI132.207
M68-49	Evans x M59-120
M71-148	Clay x Evans
M74-227	M68-49 x M63-194
M74-23	M68-49 x Hodgson
M83-64	M74-227 x L78-189
M84-93	M71-148 x Ozzie
M84-916	A79-136012 x Dawson
M85-647	Ozzie x Fayette
M86-421	M74-23 x Gnome
M86-1973	
M89-1006	
M90-184111	L85P-558 x M86-1973
M90-162034	Burlison x M84-93
M91-564	Ozzie x M86-421
M91-116124	Faribault x Archer
M92-1525	M85-647 x Bell
M92-1571	Jack x Alpha
M93-141-16-3	
M94-275024	M89-1006 x Kato
M95-255017	M92-1525 x A92-526007
M96-71481	
M96-136086	M90-162034 x IA2021
M96-355009	M91-116124 x MN1301
M97-121138	MN0302 x Pioneer 9004
M97-136016	M90-162034 x IA2021
M97-357138	IA1006 x Surge
M98-134022	Lambert x Hartwig
M98-252008	MN0302 x PI561353
M98-308007	MN1601SP x IA20121
M99-286149	IA1008 x Pioneer P9234
M99-304146	
M99-386097	M89-1006 x Kato
M00-111179	MN0902CN x MN0302
M00-326044	MN1005 x MN0091
M00-351195	
M00-365181	
M00-516048	MN0302 x MN1004SP
M02-466298	MN1103SP x A14743B002
M03-809245	

IDENTIFICATION OF PARENT STRAINS 2012

Strain	Parentage
MD96-5722	KS4694 x Corsica
MD99-173-11-17	unknown (low palmitic)
MO304211	Unknown
MTC00-112-412-10	N94-7784 x MN0302
MTC00-113-61-7	NTCPR94-5157 x MN0302
MTCPR94-5157	Davis x N73-1102
N33129R	
N34505R	
N04-9649	Boggs x MTCPR-5157
N73-1102	Tracy x Ransom
N79-2077-12	Low 16:0 from recurrent selection
N98-4445A	
ND01-1690	Pioneer P9092 x ND95-958
ND01-1912	Pioneer P9092 x ND95-958
ND01-2006	Proto x Norpro(Rps6)
ND01-3533	A95-583021 x ND95-952
ND01-3559	P.91B01 x ND92-2381
ND01-3901	
ND02-3783	ND95-938 x Korada
ND02-4166	ND95-938 x Traill
ND02-971	Celeste x Crawford
ND02-992	ND92-2381 x ND95-938
ND03-4757	ND96-1593 x P.9061
ND03-5030	Barnes x SD96-33
ND03-5047	Barnes x SD96-33
ND03-5679	Barnes x SD96-33
ND03-6793	ND96-8929 x AC Orford
ND03-6795	ND96-8929 x AC Orford
ND03-7267	ND96-8929 x M92-1571
ND03-7747	Barnes x A95-583021
ND88-800	Maple Amber x Evans
ND92-2381	M83-64 x P.9061
ND94-7784	
ND95-938	ND88-800 x P.9092
ND95-958	ND88-800 x P.9092
ND96-1593	ND88-800 x Council
ND96-8929	ND88-800 x Council
ND99-2169	M91-564 x Pioneeer P9092
ND99-4022	Norpro x Kato
Northrup King S1346	A55-5629-4 x PI 257.435
Northrup King S1492	Corsoy x Wayne
Northrup King S15-50	[Mack x Corsoy x Pride B216(2)] x (NKS1492 x Lee74)
Northrup King S19-90	Pride B216 x Pella
Northrup King S20-20	
Northrup King S20-13	
Northrup King S24-92	Asgrow A3127 x [(IVR 1120 x Calland) x (Mitchell x Cutler 71))
Northrup King S46-44	Asgrow A5474 x Asgrow A3127
OAC 97-07	Y3916F38 x M84-916
OAC 00-17	A92-525014 x OAC Vision
OAC 02-31	OAC Stratford x OAC97-07
OAC 05-21	OT99-2 x OAC00-17
OHS 202 (HF03-534)	A95-581028 x PI592.926

IDENTIFICATION OF PARENT STRAINS 2012

Strain	Parentage
OHS 303 (HS3-2840)	U97-3114 x HS98-3628
OT99-2	{(Bravor x RAGT86L579) x AC Harmony}
Pioneer 91B01	Asgrow A2234 x Pioneer 9061
Pioneer 92B12	Unknown
Pioneer 93B82	Unknown
Pioneer 93B86	Unknown
Pioneer P9004	M83-442 x McCall
Pioneer P9061	Wells x Pioneer 1677
Pioneer P9071	Pioneer P9061 x Pioneer P9181
Pioneer P9181	Beeson x Williams
Pioneer P9092	Pioneer 9061 x NKS15-50
Pioneer P1677	Rampage x Corsoy(2)
Pioneer P9204	
Pioneer P9233	CM293 x ST2250
Pioneer P9234	Unknown
Pioneer P9241	SCN Res line (from Peking)
Pioneer P9235	Unknown
Pioneer P9254	Unknown
Pioneer P9273	Pioneer 2981 x Asgrow A3127
Pioneer P9281	Hark x (Corsoy x Calland)
Pioneer P9303	Pioneer P2981 x M0835
Pioneer P9321	MO304211 x (Weber x Asgrow A3127)
Pioneer P9362	Asgrow A2943 x Asgrow A5474
Pioneer P9402	(L77-994 x Asgrow A3127) x L77-994
Pioneer XB28V99	
Pioneer YB280	
Pride B152	Northrup King S 1346 (6) x Mack
Pride B216	Corsoy x Wayne
PR 33	rust resistant line form Georgia
PRO 25-53	unknown
S2-H1	unknown
S25-J5	unknown
S08-80	unknown
SD93-828E	Parker x Archer
SD96-33	IA2008 x Hendricks
SD96-153-3	Surge x Hendricks
SD98-76342	
SDX98-74151	Pioneer P9071 x C1944
SDX98-76192	Pioneer P9071 x C1944
SD00-167	
SD00-1391	Surge x C1907
SD00-1501	Parker x C1907
SD03-221	SDX98-75-11-2 x SDX98-82-9-2
SD03-730	SDX98-82-9-2 x SDX98-75-34-1
SD03--3221	SDX98-75-11-2 x SDX98-82-9-2
SDX98-75-11-2	M93-141-16-3 x C1944
SDX98-75-34-1	M93-141-16-3 x C1944
SDX98-76192	Pioneer P9071 x C1944
SDX98-82-9-2	U97-2519 x C1944
SDX00R-026-42	SD1081RR X IA1008
SDX00R-017-18	A97-770051 x SD93-823E
SDX02FA-5-4	A02-381100-1539 x (SD98-76342 x N98-4445A)

IDENTIFICATION OF PARENT STRAINS 2012

Strain	Parentage
Soygenetics F35815C	
Soygenetics F35170C	
Soygenetics F35978C	
Soygenetics F36150C	
Soygenetics F40355C	
SS95-15348	
SS96-10704	
SS98-7851	Pioneer P9362 x Magellan
ST2250	
Syngenta 03JR321086	
Syngenta 03KL016094	
Syngenta 04KL108370	
Syngenta 04RM820808	
Syngenta 05KE307696	
Syngenta 30257-b02-07197	
Syngenta 98620-b1-51163	
Syngenta S10-F2	
Syngenta S18-N5	
Syngenta S19-90	Pride B-216 x Pella
Syngenta S25-J5	
Syngenta WW115926	
Syngenta WW221162	
U97-2519	MSBP3F6
U97-3114	MSBP3F6
U97-207904	
U99-009019	MSBP6S4
U99-507030R	NE3001 x AGH33701
U01-190311	NE1900 x A97-871009
U01-390489	IA1008 x NE3001
U02-242055	NE1900 x Pioneer 93B82
U02-341563	NE3400 x Pioneer 93B82
U03-200317	U99-009019 x P92B12
U03-300134	NE3202 x NE2802
U03-400435	P92B12 x U97-207904
U03-130145R	AAK 2501 MOR x U99-507030R
U07-135478R	
U07-236486R	
U07-237058R	
U07-338254R	
U07-439042R	
U07-439221R	
U08-917024R	
U08-924029R	
UP3YC3S3:7	G. Graef Intermated Population
X881-57	unknown
X-33802	unknown
2S11	059-903 x Hardome
059-903	PI 438.471
435.TCS	From Schillinger Seed Co.
133515	133220 x Pioneer P93B82

2012 DISEASE, SHATTERING, AND DESCRIPTIVE DATA

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

2012 UNIFORM AND PRELIMINARY TEST LOCATIONS

Location		Tests Conducted By:	Uniform Tests						Preliminary Tests					Uniform Tests RR			
			00	0	I	II	III	IV	0	I	II	III	IV	0	I	II	III
IA	Eldora	W. Fehr			X	X											
	Charles City	W. Fehr			**X**												
	Carlisle	W. Fehr				**X**	**X**										
	Greenfield	W. Fehr					X										
	Kanawha	S. Cianzio			**X**					**X**							
	Boone	S. Cianzio				**X**					**X**						
	Crawfordsville	S. Cianzio					**X**					**X**					
IL	Dekalb	B. Diers/T. Cary				**X**											
	Harrisburg	S. Kantartzi/J. Klein						X					X				
	Arthur	B. Diers/T. Cary					**X**										
	Urbana	B. Diers/T. Cary				**X**	**X**	**X**			**X**	**X**	**X**			**X**	**X**
	Brownstown	B. Diers/T. Cary						**X**									
IN	Lafayette	W. Crochet			**X**	X	X	**X**		X	X	**X**	**X**		X	**X**	X
	Wanatah	W. Crochet			**X**	**X**	**X**									**X**	**X**
	Butlerville	W. Crochet					**X**	**X**					**X**				**X**
KS	Ashland	W. Schapaugh Jr.															
	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**				**X**					**X**	**X**	
MO	Columbia	A. Scaboo					**X**	**X**				**X**	X				**X**
	Portageville (Clay)	G. Shannon					**X**	**X**					**X**				**X**
	Portageville (Loam)	G. Shannon					X	**X**									**X**

2012 UNIFORM AND PRELIMINARY TEST LOCATIONS

	Location	Tests Conducted By:	Uniform Tests						Preliminary Tests					Uniform Tests RR			
			00	0	I	II	III	IV	0	I	II	III	IV	0	I	II	III
NE	Beemer	G. Graef / L.Korte			X	X				X	X				X	X	
	Cotesfield	G. Graef / L.Korte			X	**X**				X	**X**				X	**X**	
	Lincoln	G. Graef / L.Korte					X					X					X
	Phillips	G. Graef / L.Korte			X	**X**	**X**			X	**X**	**X**			**X**	**X**	**X**
	Clay Center	G. Graef / L.Korte					**X**					**X**					**X**
ND	Casselton	T. Helms	**X**	**X**					**X**					**X**			
	Grand Bend	T. Helms												**X**			
	Northwood	T. Helms	**X**														
OH	Hoytville	L. McHale/McIntyre				**X**	**X**				**X**	**X**					
	Wooster	L. McHale/McIntyre				X					X						
	St. Charleston	L. McHale					**X**					**X**					
ONT	Chatham	I. Rajcan/D. Fischer				**X**					**X**						
	Dundalk	I. Rajcan															
	Elora	I. Rajcan	**X**														
	Harrow	V. Poysa				**X**					**X**						
	Ottawa	E. Cober	**X**	**X**													
	Ridgetown	I. Rajcan/D. Fischer			**X**					**X**							
	St. Pauls	I. Rajcan		**X**													
	Woodstock	I. Rajcan		**X**					**X**								
QUE	St. Mathieu de Beloeil	L. O'Donoughue	**X**	**X**					**X**								
	Saint Hyacinthe	J. Auclair			X					X					X		
	La Pocatiere	J. Aulcair	X														
SD	Bristol	G. Jiang		X													
	Beresford	G. Jiang				X					X						
	Watertown	G. Jiang			X				X	X							
	Volga	G. Jiang		**X**	**X**	**X**			**X**	**X**	**X**						
TN	Jackson	P. Arelli						**X**									
X	Location With Agronomic Data		10	9	16	20	18	10	7	12	13	11	7	4	9	10	10
X	Location With Seed Composition Data		8	8	7	13	13	9	6	5	9	9	5	4	4	7	8
*	Manhattan, KS Submitted Only for PTIIIA																

Uniform Test 00, 2012

Ent.	Strain	Parentage	Seed Source	Previous Testing	Gen. Comp.	Unique Traits
1.	MN0071 (00)	Harmony x OT92-8	Orf	12	F5	Rps1
2.	Cavalier	Sargent x ND96-1006	Helms	7	F4	Rps6
3.	MN0095 (0)	M92-270029 x M93-313185	Orf	6	F5	Rps1
4.	M03-158071	M97-121138 x MN0091	Orf	3	F5	Rps6, White Mold
5.	M05-350061	M00-111179 x M98-134022	Orf	1	F5	SCN Rps1k
6.	M06-274009	MN0902CN x MN1011CN	Orf	new	F5	CN
7.	M06-274098	MN0902CN x MN1011CN	Orf	new	F5	CN
8.	M06-289001	M00-351195 x M00-365181	Orf	new	F5	CN
9.	M06-296023	M99-278133 x MN0091	Orf	new	F5	SSR
10.	M06-320039	MN0201 x MN1105SP	Orf	new	F5	PRO
11.	M06-338016	ND02-971 x MN0071	Orf	new	F5	OIL
12.	M06-353010	M03-809245 x MN0107	Orf	new	F5	CHECK
13.	M06-378172	MN0302 x PI445826	Orf	new	F5	Diversity
14.	ND09-3153	ND02-992 x ND03-7747	Helms	new	F4	Rps1k
15.	ND09-3155	ND02-992 x ND03-7747	Helms	new	F4	Rps1k
16.	ND09-3170	ND02-992 x ND03-7747	Helms	new	F4	Rps1k
17.	ND09-3175	ND02-992 x ND03-7747	Helms	new	F4	Rps1k
18.	ND09-3180	ND02-992 x ND03-7747	Helms	new	F4	Rps1k
19.	ND09-3344	ND03-7267 x ND03-5679	Helms	new	F4	Rps6
20.	ND09-3381	ND03-7267 x ND03-5679	Helms	new	F4	Rps6
21.	ND09-3416	ND03-7267 x ND03-5679	Helms	new	F4	Rps6
22.	ND09-3437	ND03-5030 x ND03-6793	Helms	new	F4	Rps6
23.	ND09-3505	Cavalier x Pembina	Helms	new	F4	Rps6
24.	ND09-3724	Cavalier x ND02-3783	Helms	new	F4	Rps6
25.	ND09-5706	ND03-7267 x Sheyenne	Helms	new	F4	Rps6
26.	ND09-5800	ND03-7267 x Sheyenne	Helms	new	F4	Rps6

UNIFORM TEST 00, 2012

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	Chlorosis Score Danvers MN	Shattering Score Manhattan KS	Green Stem Score St. Mathieu QUE.
MN0071 (00)	PTBDYBrI	2.5	2.0	1.0
Cavalier	P+WTBDYYI	2.5	2.0	1.0
MN0095 (0)	PGBDYIbI	1.6	2.0	1.0
M03-158071	WTTDYYI	1.5	3.0	1.3
M05-350061	WT+GBIYBrI	2.0	3.0	1.0
M06-274009	PTBIYYI	1.9	2.0	1.0
M06-274098	PTBIYYI	1.9	1.0	1.0
M06-289001	WTTDYYI	1.8	1.0	1.0
M06-296023	PTTDYYI	2.8	3.0	1.0
M06-320039	PTBDYYI	2.8	2.0	2.3
M06-338016	P+WGBDYBf+YI	2.9	2.0	1.0
M06-353010	P+WGTIYYI	1.6	2.0	0.3
M06-378172	PTBDYYI	2.3	2.0	1.0
ND09-3153	PGBDYYI	2.1	1.0	1.0
ND09-3155	PGBDYYI	1.9	2.0	1.3
ND09-3170	PGBDYBf+YI	2.1	1.0	2.0
ND09-3175	PGBDYYI	1.6	1.0	2.0
ND09-3180	PGBDYYI	2.6	2.0	1.7
ND09-3344	P+WT+GBDYBr+BfI	1.6	1.0	1.7
ND09-3381	PGBDYBfI	2.0	3.0	1.0
ND09-3416	WTBDYYI	2.0	1.0	1.0
ND09-3437	PGBDYBfI	1.8	2.0	1.0
ND09-3505	PGBDYYI	2.1	1.0	1.0
ND09-3724	PTBDYBrI	1.8	1.0	2.0
ND09-5706	WT+GTDYYI	2.0	1.0	1.7
ND09-5800	PT+GBDYYI	2.9	1.0	1.0

UNIFORM TEST 00, 2012

REGIONAL SUMMARY

					Plant	Seed	Seed	Composition	
	Yield	Rank	Maturity	Lodging	Height	Quality	Size	Protein	Oil
No. of Tests	7	7	8	7	9	8	9	8	8
Strain	bu/a	No.	Date	Score	In	Score	g/100	%	%
MN0071 (00)	38.8	25	9/4	1.0	23	1.7	16.1	33.0	18.0
Cavalier	40.9	19	3.0	1.0	22	2.2	17.7	32.9	17.5
MN0095 (0)	42.2	15	6.0	1.0	23	1.8	13.8	32.5	18.5
M03-158071	42.4	14	1.0	1.0	24	1.7	13.7	33.0	18.0
M05-350061	40.9	19	7.0	1.3	27	1.8	15.4	33.5	17.6
M06-274009	40.5	23	4.8	1.2	28	1.7	13.3	32.7	18.1
M06-274098	43.0	12	6.9	1.2	29	1.5	14.4	34.1	17.3
M06-289001	46.5	3	9.3	1.2	31	1.6	14.8	33.4	18.0
M06-296023	40.7	21	1.9	1.0	23	1.6	16.8	32.4	18.6
M06-320039	41.6	18	4.6	1.2	29	1.6	14.5	38.4	15.8
M06-338016	45.3	6	6.5	1.0	27	2.3	16.2	31.5	18.8
M06-353010	42.0	16	9.6	1.1	25	1.3	10.8	32.3	18.0
M06-378172	39.1	24	1.9	1.0	23	1.8	16.6	31.7	18.0
ND09-3153	45.5	5	4.6	1.1	28	1.4	15.1	32.7	18.4
ND09-3155	43.2	9	4.3	1.1	26	1.4	15.4	33.0	18.4
ND09-3170	43.2	9	5.3	1.0	23	1.9	16.2	32.2	18.9
ND09-3175	46.8	2	6.4	1.2	27	1.5	16.2	33.1	18.2
ND09-3180	44.3	7	5.0	1.0	26	1.4	16.0	33.4	18.5
ND09-3344	42.8	13	5.8	1.1	27	1.7	16.5	31.8	18.8
ND09-3381	41.7	17	3.4	1.1	27	1.7	15.1	32.1	19.2
ND09-3416	40.6	22	3.8	1.0	28	1.7	15.8	32.1	18.9
ND09-3437	38.7	26	2.8	1.0	23	1.8	18.7	32.8	18.2
ND09-3505	43.7	8	2.4	1.0	23	1.4	17.0	33.2	17.9
ND09-3724	43.2	9	5.5	1.0	25	1.8	16.8	32.7	17.6
ND09-5706	45.8	4	7.5	1.0	26	1.7	15.2	31.6	18.3
ND09-5800	47.2	1	6.6	1.0	25	1.7	15.0	31.2	18.1

108.1 Days After Planting

UNIFORM TEST 00, 2012

2011-2012 2-YEAR MEAN

Strain	Yield	Rank	Maturity	Lodging	Plant Height	Seed Quality	Seed Size	Composition	
								Protein	Oil
No. of Tests	17	17	18	17	18	17	19	16	16
	bu/a	No.	Date	Score	In.	Score	g/100	%	%
MN0071 (00)	43.1	5	9/10	1.2	26	1.7	16.1	33.4	18.3
CAVALIER	44.6	4	2.2	1.2	25	1.8	17.8	33.8	17.7
MN0095 (0)	46.9	1	5.9	1.3	27	1.5	13.6	33.2	18.4
M03-158071	45.4	2	1.3	1.2	28	1.7	14.0	33.9	18.2
M05-350061	44.8	3	7.3	1.7	30	1.6	15.2	34.0	18.0

107.7 Days After Planting

UNIFORM TEST 00, 2012

YIELD (bu/a)

Strain	Mean 7 Tests	Crookston MN	Moorhead MN	Shelly MN	Casselton* ND	Northwood ND	Elora* ONT	Ottawa ONT	La Pocatiere Que.	St. Mathieu de-Beloeil Que.
MN0071 (00)	38.8	41.4	33.3	26.5	25.6	46.3	31.0	14.3	43.1	66.4
Cavalier	40.9	32.3	41.7	28.9	31.7	56.8	25.9	19.0	49.9	57.7
MN0095 (0)	42.2	37.8	33.5	28.6	40.6	60.6	28.5	16.9	50.3	67.7
M03-158071	42.4	38.0	37.8	31.1	39.4	51.6	32.7	20.3	55.9	62.3
M05-350061	40.9	35.4	35.7	36.0	36.0	49.0	24.7	20.5	50.6	59.0
M06-274009	40.5	38.7	42.5	34.4	37.8	51.8	25.7	20.7	39.2	56.3
M06-274098	43.0	33.7	33.9	32.6	40.3	57.4	34.7	26.8	55.1	61.3
M06-289001	46.5	44.1	32.5	31.4	48.2	59.6	42.3	29.9	59.9	68.3
M06-296023	40.7	31.1	36.3	28.2	27.9	54.3	27.9	19.5	49.5	66.3
M06-320039	41.6	35.3	33.3	31.4	43.2	49.3	39.1	20.4	53.5	68.2
M06-338016	45.3	30.9	37.6	34.9	42.7	54.3	37.8	26.7	58.6	73.9
M06-353010	42.0	38.0	35.0	30.5	38.0	54.9	30.8	29.3	51.6	54.8
M06-378172	39.1	36.3	34.2	28.8	22.0	50.4	27.1	19.8	41.8	62.3
ND09-3153	45.5	38.9	39.2	33.8	54.1	57.0	36.8	25.6	59.1	64.5
ND09-3155	43.2	35.7	39.5	36.3	43.1	53.7	40.6	22.3	52.9	62.2
ND09-3170	43.2	41.4	40.0	29.3	40.7	55.1	27.0	21.0	51.1	64.2
ND09-3175	46.8	47.6	39.7	32.1	44.8	58.3	33.0	21.2	54.7	74.2
ND09-3180	44.3	39.6	36.9	36.8	42.6	55.8	31.6	24.5	50.5	66.4
ND09-3344	42.8	32.7	34.4	31.7	47.2	54.4	34.6	24.5	57.5	64.4
ND09-3381	41.7	45.8	33.0	29.7	34.3	49.3	32.7	21.4	52.5	60.4
ND09-3416	40.6	37.6	34.3	31.7	44.8	48.6	36.8	20.2	54.1	57.8
ND09-3437	38.7	34.8	32.7	30.0	39.9	49.5	25.1	17.2	45.5	61.2
ND09-3505	43.7	42.2	40.9	23.3	38.9	59.6	26.7	21.6	56.4	62.0
ND09-3724	43.2	38.0	43.1	24.5	41.7	59.4	37.6	19.9	52.6	64.7
ND09-5706	45.8	41.0	42.5	34.5	53.3	60.8	31.4	20.9	57.4	63.7
ND09-5800	47.2	47.0	40.2	30.7	51.0	64.3	31.4	22.4	56.4	69.3
Location Mean		38.3	37.1	31.1	40.4	54.7	32.1	21.8	52.3	63.8
C.V. (%)		15.0	10.7	13.9	20.1	8.9	15.2	10.0	14.9	6.9
L.S.D. (5%)		9.5	6.5	7.0	13.3	8.0	8.8	3.0		6.0
Row Sp. (in.)		30	30	30	30	30	14	17.7	7	7
Rows/Plot		4	4	4	4	4	4	4	8	5
Reps		3	3	3	3	3	3	3	3	3

UNIFORM TEST 00, 2012

YIELD RANK

Strain	Yield Rank	Crookston MN	Moorhead MN	Shelly MN	Casselton ND	Northwood ND	Elora ONT	Ottawa ONT	La Pocatiere Que.	St. Mathieu de-Beloeil Que.
MN0071 (00)	25	6	22	24	25	26	16	26	24	7
Cavalier	19	24	4	20	23	10	23	23	21	24
MN0095 (0)	15	15	21	22	13	3	18	25	20	6
M03-158071	14	12	11	14	17	14	11	18	8	15
M05-350061	19	19	15	3	21	24	26	16	18	22
M06-274009	23	11	2	6	20	18	24	15	26	25
M06-274098	12	22	20	8	15	8	8	3	9	19
M06-289001	3	4	26	12	4	4	1	1	1	4
M06-296023	21	25	14	23	24	15	19	22	22	9
M06-320039	18	20	22	12	8	22	3	17	12	5
M06-338016	6	26	12	4	10	15	4	4	3	2
M06-353010	16	12	16	16	19	13	17	2	16	26
M06-378172	24	17	19	21	26	20	20	21	25	16
ND09-3153	5	10	10	7	1	9	6	5	2	11
ND09-3155	9	18	9	2	8	17	2	9	13	17
ND09-3170	9	6	7	19	13	12	21	13	17	13
ND09-3175	2	1	8	9	6	7	10	12	10	1
ND09-3180	7	9	13	1	11	11	13	7	19	8
ND09-3344	13	22	17	10	5	14	9	6	4	12
ND09-3381	17	3	24	18	22	22	11	11	15	21
ND09-3416	22	16	18	10	6	25	6	19	11	23
ND09-3437	26	21	25	17	16	21	25	24	23	20
ND09-3505	8	5	5	26	18	4	22	10	6	18
ND09-3724	9	12	1	25	12	6	5	20	14	10
ND09-5706	4	8	2	5	2	2	14	14	5	14
ND09-5800	1	2	6	15	3	1	14	8	6	3

UNIFORM TEST 00, 2012

MATURITY (date)

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)	9/4	8/31	8/27	9/6	9/6	8/29	9/8	8/31	9/25	9/5
Cavalier	3.0	5	6	1	2	9	1		0	0
MN0095 (0)	6.0	5	7	4	3	15	4		3	7
M03-158071	1.0	2	3	2	-4	6	-1		-1	1
M05-350061	7.0	7	8	4	4	16	7		4	6
M06-274009	4.8	5	8	2	3	11	2		3	4
M06-274098	6.9	8	10	6	-1	15	11		3	3
M06-289001	9.3	11	13	8	7	14	9		4	8
M06-296023	1.9	1	5	-1	0	7	3		-1	1
M06-320039	4.6	8	8	4	1	4	6		1	5
M06-338016	6.5	5	8	4	5	9	9		5	7
M06-353010	9.6	11	10	4	5	16	9		12	10
M06-378172	1.9	5	4	1	1	6	-1		0	-1
ND09-3153	4.6	5	10	3	1	8	5		1	4
ND09-3155	4.3	4	8	2	0	8	8		0	4
ND09-3170	5.3	6	9	3	0	11	5		2	6
ND09-3175	6.4	9	13	4	0	13	5		0	7
ND09-3180	5.0	6	9	3	3	10	3		0	6
ND09-3344	5.8	5	10	3	5	12	5		-	6
ND09-3381	3.4	4	8	2	1	8	3		-1	2
ND09-3416	3.8	5	9	4	-1	8	3		0	2
ND09-3437	2.8	5	6	2	0	8	2		-1	0
ND09-3505	2.4	2	8	0	-2	10	2		-1	0
ND09-3724	5.5	8	12	3	1	9	9		-1	3
ND09-5706	7.5	7	10	5	9	13	8		1	7
ND09-5800	6.6	7	10	3	5	13	7		2	6
Date Planted	5/19	5/10	5/10	5/8	5/9	5/12	5/30	5/19	6/11	6/7
Days to Mature	108	113	109	121	120	109	101	104	106	90

UNIFORM TEST 00, 2012

LODGING (score)

Strain	Mean 7 Tests	Crookston MN	Moorhead MN	Shelly MN	Casselton ND	Northwood ND	Elora ONT	Ottawa ONT	La Pocatiere Que.	St. Mathieu de-Beloeil Que.
MN0071 (00)	1.0	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			1.0
MN0095 (0)	1.0	1.0	1.0	1.0	1.0	1.0	1.0			1.0
M03-158071	1.0	1.0	1.0	1.0	1.0	1.0	1.0			1.0
M05-350061	1.3	1.0	1.0	1.0	1.0	1.0	1.0			3.0
M06-274009	1.2	1.0	1.0	1.0	1.0	1.0	1.2			2.0
M06-274098	1.2	1.0	1.0	1.0	1.0	1.0	1.1			2.0
M06-289001	1.2	1.0	1.0	1.0	1.0	1.0	1.1			2.3
M06-296023	1.0	1.0	1.0	1.0	1.0	1.0	1.0			1.0
M06-320039	1.2	1.0	1.0	1.0	1.0	1.0	1.2			2.3
M06-338016	1.0	1.0	1.0	1.0	1.0	1.0	1.2			1.0
M06-353010	1.1	1.0	1.0	1.0	1.0	1.0	1.1			1.3
M06-378172	1.0	1.0	1.0	1.0	1.0	1.0	1.0			1.0
ND09-3153	1.1	1.0	1.0	1.0	1.0	1.0	1.0			2.0
ND09-3155	1.1	1.0	1.0	1.0	1.0	1.0	1.3			1.7
ND09-3170	1.0	1.0	1.0	1.0	1.0	1.0	1.0			1.0
ND09-3175	1.2	1.0	1.0	1.0	1.0	1.0	1.3			2.0
ND09-3180	1.0	1.0	1.0	1.0	1.0	1.0	1.0			1.3
ND09-3344	1.1	1.0	1.0	1.0	1.0	1.0	1.3			1.7
ND09-3381	1.1	1.0	1.0	1.0	1.0	1.0	1.0			1.7
ND09-3416	1.0	1.0	1.0	1.0	1.0	1.0	1.0			1.3
ND09-3437	1.0	1.0	1.0	1.0	1.0	1.0	1.0			1.0
ND09-3505	1.0	1.0	1.0	1.0	1.0	1.0	1.0			1.0
ND09-3724	1.0	1.0	1.0	1.0	1.0	1.0	1.0			1.0
ND09-5706	1.0	1.0	1.0	1.0	1.0	1.0	1.0			1.0
ND09-5800	1.0	1.0	1.0	1.0	1.0	1.0	1.0			1.0

UNIFORM TEST 00, 2012

PLANT HEIGHT (inches)

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)	23	17	25	23	25	33	26	16	16	23
Cavalier	22	11	25	23	25	34	21	17	16	22
MN0095 (0)	23	17	22	21	29	37	24	15	18	25
M03-158071	24	19	27	23	28	35	25	16	19	26
M05-350061	27	19	33	23	34	40	26	18	23	29
M06-274009	28	21	29	26	35	40	28	19	20	31
M06-274098	29	20	33	27	34	42	28	19	25	32
M06-289001	31	26	34	30	39	41	31	19	26	36
M06-296023	23	18	26	22	26	39	23	16	16	24
M06-320039	29	22	32	26	39	43	30	17	23	33
M06-338016	27	17	28	26	33	37	30	21	21	29
M06-353010	25	19	26	23	33	34	23	17	21	28
M06-378172	23	17	26	22	25	34	23	19	16	23
ND09-3153	28	17	31	25	40	40	30	17	20	30
ND09-3155	26	18	31	24	31	40	30	15	18	28
ND09-3170	23	20	30	21	31	33	21	14	16	24
ND09-3175	27	25	30	23	38	39	28	15	19	30
ND09-3180	26	21	25	24	32	41	24	15	20	31
ND09-3344	27	18	30	22	34	39	28	17	20	30
ND09-3381	27	23	31	23	33	37	27	18	21	29
ND09-3416	28	22	32	25	36	41	28	17	21	31
ND09-3437	23	15	24	21	31	34	25	16	16	24
ND09-3505	23	16	25	21	27	36	22	16	18	23
ND09-3724	25	17	29	20	29	37	28	17	17	29
ND09-5706	26	20	29	24	34	38	25	17	21	28
ND09-5800	25	22	29	20	31	36	25	16	19	28

UNIFORM TEST 00, 2012

SEED QUALITY (score)

Strain	Mean 8 Tests	Crookston MN	Moorhead MN	Shelly MN	Casselton ND	Northwood ND	Elora ONT	Ottawa ONT	La Pocatiere Que.	St. Mathieu de-Beloeil Que.
MN0071 (00)	1.7	2.0	1.0	3.0	1.0	1.0	1.0	2.4		2.0
Cavalier	2.2	5.0	2.0	3.0	1.0	1.0	1.5	1.8		2.3
MN0095 (0)	1.8	1.0	3.0	3.0	1.0	1.0	1.0	2.3		1.7
M03-158071	1.7	1.0	3.0	1.0	1.0	2.0	1.5	2.0		2.0
M05-350061	1.8	1.0	2.0	1.0	4.0	1.0	1.5	2.1		2.0
M06-274009	1.7	1.0	2.0	2.0	1.0	1.0	1.5	2.2		2.7
M06-274098	1.5	1.0	2.0	1.0	1.0	1.0	1.5	2.1		2.0
M06-289001	1.6	1.0	3.0	1.0	1.0	1.0	1.5	2.1		2.0
M06-296023	1.6	1.0	1.0	2.0	1.0	1.0	1.5	2.9		2.0
M06-320039	1.6	1.0	2.0	2.0	1.0	1.0	1.5	2.0		2.0
M06-338016	2.3	1.0	2.0	2.0	4.0	4.0	1.0	2.6		2.0
M06-353010	1.3	1.0	2.0	1.0	1.0	1.0	1.0	1.2		2.0
M06-378172	1.8	1.0	2.0	3.0	1.0	1.0	1.0	3.0		2.0
ND09-3153	1.4	1.0	1.0	2.0	1.0	1.0	1.5	1.5		2.0
ND09-3155	1.4	1.0	1.0	2.0	1.0	1.0	1.5	1.9		2.0
ND09-3170	1.9	1.0	2.0	3.0	1.0	2.0	1.5	2.3		2.0
ND09-3175	1.5	1.0	1.0	2.0	1.0	1.0	2.0	2.0		1.7
ND09-3180	1.4	1.0	1.0	2.0	1.0	1.0	2.0	1.3		2.0
ND09-3344	1.7	1.0	1.0	4.0	1.0	1.0	1.5	2.0		2.0
ND09-3381	1.7	1.0	1.0	3.0	2.0	1.0	1.5	2.1		2.0
ND09-3416	1.7	1.0	2.0	2.0	1.0	2.0	1.5	2.0		2.3
ND09-3437	1.8	1.0	2.0	2.0	1.0	2.0	1.5	3.0		2.0
ND09-3505	1.4	1.0	1.0	3.0	1.0	1.0	1.5	2.0		1.0
ND09-3724	1.8	1.0	3.0	2.0	1.0	1.0	1.5	3.2		2.0
ND09-5706	1.7	1.0	2.0	2.0	1.0	1.0	1.5	2.7		2.0
ND09-5800	1.7	2.0	1.0	3.0	1.0	1.0	1.5	2.0		1.7

UNIFORM TEST 00, 2012

SEED SIZE (g/100)

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)	16.1	15.2	13.0	14.2	16.0	16.4	15.9	18.0	17.8	18.3
Cavalier	17.7	18.1	14.6	15.5	15.0	18.8	18.3	19.7	20.0	19.4
MN0095 (0)	13.8	11.3	12.3	15.7	14.8	14.2	12.7	14.2	14.2	15.0
M03-158071	13.7	11.4	12.3	12.8	12.5	15.2	13.3	15.6	14.7	15.8
M05-350061	15.4	11.7	13.4	13.3	17.8	16.2	14.4	19.5	16.3	16.4
M06-274009	13.3	10.9	12.2	11.4	11.6	13.7	13.1	17.2	14.3	15.7
M06-274098	14.4	11.4	13.1	12.5	12.9	15.1	13.9	18.0	15.3	17.3
M06-289001	14.8	13.1	12.3	12.6	13.2	14.9	14.7	19.5	16.3	16.4
M06-296023	16.8	13.3	14.4	15.9	16.0	17.5	16.6	19.7	19.2	18.8
M06-320039	14.5	10.9	12.6	13.6	14.0	15.3	14.3	17.9	15.1	17.1
M06-338016	16.2	13.9	14.3	15.4	15.8	16.5	16.2	18.7	16.8	18.5
M06-353010	10.8	8.4	10.3	9.9	10.4	11.0	10.9	12.9	11.6	12.2
M06-378172	16.6	14.0	14.0	14.9	16.8	17.5	16.1	18.5	19.2	18.8
ND09-3153	15.1	13.1	12.6	13.4	13.6	15.7	14.4	18.8	16.4	17.5
ND09-3155	15.4	12.7	13.2	13.4	15.2	15.0	14.2	19.5	16.8	18.2
ND09-3170	16.2	13.6	14.1	14.3	14.8	16.5	15.8	19.1	18.2	19.1
ND09-3175	16.2	13.6	13.7	14.8	15.2	16.8	15.3	20.4	17.2	18.5
ND09-3180	16.0	15.0	13.2	16.9	13.2	15.1	15.2	19.8	17.0	18.2
ND09-3344	16.5	15.1	13.2	15.8	14.5	20.6	16.2	19.8	16.5	17.2
ND09-3381	15.1	13.1	12.8	12.8	13.9	16.2	14.7	18.7	15.9	18.0
ND09-3416	15.8	16.1	13.3	16.0	13.9	16.1	15.0	18.4	16.1	16.9
ND09-3437	18.7	13.1	16.1	14.3	18.0	20.2	20.0	21.5	23.3	21.9
ND09-3505	17.0	13.9	14.6	13.9	15.9	18.3	17.7	19.7	19.8	19.5
ND09-3724	16.8	14.7	13.4	14.6	15.3	17.4	18.3	19.0	19.2	19.3
ND09-5706	15.2	13.3	12.7	13.9	15.6	15.5	15.2	16.8	16.3	17.6
ND09-5800	15.0	13.5	12.1	14.7	13.4	15.8	15.1	16.9	15.9	17.6

UNIFORM TEST 00, 2012

PROTEIN (%)

Strain	Mean 8 Tests	Crookston MN	Moorehead MN	Shelly MN	Casselton ND	Northwood ND	Elora ONT	Ottawa ONT	St. Mathieu de-Beloeil Que.
MN0071 (00)	33.0	35.6	33.0	27.8	31.6	31.8	34.5	36.7	32.7
Cavalier	32.9	36.2	33.1	28.4	29.2	31.7	35.3	35.8	33.7
MN0095 (0)	32.5	33.9	34.8	28.7	28.6	30.3	34.5	35.4	33.5
M03-158071	33.0	34.5	33.9	29.1	25.4	33.9	36.4	36.5	34.3
M05-350061	33.5	33.8	33.8	28.0	33.7	31.9	35.1	37.1	34.2
M06-274009	32.7	33.6	34.3	27.9	28.9	32.7	33.8	36.6	33.7
M06-274098	34.1	35.9	34.5	29.1	29.9	33.8	35.6	38.9	35.1
M06-289001	33.4	34.8	33.9	28.8	29.2	33.3	35.3	37.3	34.5
M06-296023	32.4	32.5	32.1	27.8	30.5	33.4	35.4	34.9	32.8
M06-320039	38.4	38.7	37.7	33.6	36.0	37.3	40.6	43.2	40.2
M06-338016	31.5	32.0	32.9	28.3	27.7	30.3	34.8	34.5	31.8
M06-353010	32.3	32.0	32.2	28.7	29.1	31.7	35.0	35.5	33.9
M06-378172	31.7	32.2	32.9	29.1	28.1	30.1	33.8	34.5	32.6
ND09-3153	32.7	33.2	33.5	28.8	30.0	31.6	33.8	36.5	33.8
ND09-3155	33.0	34.3	34.0	28.4	31.2	30.9	34.0	36.8	34.3
ND09-3170	32.2	33.5	32.7	28.0	29.7	30.8	34.3	35.2	33.6
ND09-3175	33.1	34.1	34.3	29.3	27.8	32.7	35.0	37.5	34.1
ND09-3180	33.4	35.0	32.3	29.5	29.9	32.5	35.7	37.1	34.9
ND09-3344	31.8	33.0	32.7	28.5	29.3	29.7	33.5	34.6	33.1
ND09-3381	32.1	33.2	33.5	28.3	28.1	31.3	34.3	35.2	33.2
ND09-3416	32.1	33.1	32.7	28.4	24.5	32.9	34.0	37.1	33.8
ND09-3437	32.8	33.9	33.5	28.9	29.5	31.3	35.5	35.8	34.0
ND09-3505	33.2	33.4	34.6	29.1	30.3	32.3	35.4	36.6	34.1
ND09-3724	32.7	33.7	32.3	29.1	29.9	31.3	35.5	35.9	34.2
ND09-5706	31.6	31.9	33.0	28.4	27.5	29.8	34.5	34.5	33.0
ND09-5800	31.2	32.4	32.3	28.1	25.1	29.1	34.5	35.2	33.1

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

UNIFORM TEST 00, 2012

OIL (%)

Strain	Mean 8 Tests	Crookston MN	Moorehead MN	Shelly MN	Casselton ND	Northwood ND	Elora ONT	Ottawa ONT	St. Mathieu de-Beloeil Que.
MN0071 (00)	18.0	17.3	19.0	17.4	16.4	16.6	18.9	19.0	19.4
Cavalier	17.5	15.5	19.4	16.2	17.9	15.6	17.7	18.9	18.5
MN0095 (0)	18.5	19.1	18.6	16.9	18.4	17.8	18.5	19.5	19.0
M03-158071	18.0	19.0	18.8	16.4	19.2	15.8	17.7	18.4	18.3
M05-350061	17.6	18.4	18.4	17.1	14.3	16.9	18.7	18.4	18.4
M06-274009	18.1	18.8	18.7	17.0	18.6	16.3	18.8	18.3	18.6
M06-274098	17.3	17.8	18.3	16.9	17.5	15.3	17.9	17.3	17.7
M06-289001	18.0	18.5	19.2	16.7	18.4	16.5	18.6	18.0	18.3
M06-296023	18.6	19.6	20.5	17.6	19.0	15.8	18.1	19.4	19.2
M06-320039	15.8	16.5	17.7	15.0	16.0	14.6	15.7	15.2	15.7
M06-338016	18.8	20.2	18.9	16.9	19.1	17.5	19.0	19.7	19.6
M06-353010	18.0	19.2	19.0	16.6	17.3	16.5	18.0	18.7	18.4
M06-378172	18.0	18.8	20.3	15.7	17.5	16.4	18.1	19.0	18.5
ND09-3153	18.4	19.0	20.2	16.2	18.1	17.2	18.5	18.9	19.1
ND09-3155	18.4	19.4	18.7	16.9	18.2	18.3	18.2	18.7	19.1
ND09-3170	18.9	19.5	20.2	17.2	18.6	18.3	18.1	19.8	19.6
ND09-3175	18.2	18.4	19.3	16.4	18.7	17.3	17.9	18.5	19.3
ND09-3180	18.5	18.9	20.1	16.7	19.2	17.2	17.8	18.9	18.9
ND09-3344	18.8	19.6	20.2	16.8	18.1	18.0	18.8	19.7	19.2
ND09-3381	19.2	20.2	19.4	17.7	20.0	17.6	18.8	19.8	19.7
ND09-3416	18.9	20.0	20.7	17.1	21.0	16.5	18.8	18.4	19.0
ND09-3437	18.2	19.4	18.5	16.7	18.3	17.3	17.9	18.5	19.1
ND09-3505	17.9	19.3	19.5	16.6	17.0	16.2	17.7	18.5	18.4
ND09-3724	17.6	18.2	18.7	15.9	17.3	16.3	17.7	18.4	18.4
ND09-5706	18.3	19.4	19.9	16.4	18.1	16.5	18.2	19.3	18.5
ND09-5800	18.1	18.4	18.7	15.9	21.3	16.3	17.4	18.4	18.4

Uniform Test 0, 2012

Ent.	Strain	Parentage	Seed Source	Previous Testing	Gen. Comp.	Unique Traits
1	Sheyenne (0)	Pioneer 9071 x A96-492041	Helms	6	F4	Rps1-c
2.	MN1410 (I)	Unknown	Orf	5	F5	
3.	Surge (L)	A86-204022 x Kato	Green	13	F5	
4.	MN0095 (E)	M92-270029 x M93-313185	Orf	2	F5	Rps1
5.	MN0606CN (SCN)	MN0901 x MN0902CN	Orf	4	F5	SCN
6.	M03-149100	MN0902CN x MN0304	Orf	11 UT0 SCN	F5	SCN
7.	M03-172059	IA2052 x MN0304	Orf	1	F5	Rps1k
8.	M05-243040	MN1003SP x PI578425	Orf	PT0	F5	Slow Wilting
9.	M05-363022	IA1008 x MN1011CN	Orf	PT0	F5	SCN
10.	ND07-2205	LaMoure x ND01-1690	Helms	PT0	F4	Rps6
11.	ND07-2303	ND01-3559 x ND99-2169	Helms	1	F4	Rps1k
12.	ND07-3761	ProSoy x ND01-2006	Helms	1	F4	Rps6
13.	SD07CV-539	IA2052 x Pion 9092	Jiang	1	F8	Oil
14.	SD08CV-0015	M97-136016 x SD96-135-3	Jiang	PT0	F5	
15.	SD08CV-0018	M97-136016 x SD96-135-3	Jiang	PT0	F5	

UNIFORM TEST 0, 2012

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	Chlorosis Score Danvers MN	Shattering Score Manhattan KS
Sheyenne (0)	PGBIYYI	0.8	1.0
MN1410 (I)	WGBIYBfI	0.8	1.0
Surge (L)	PGBDYIbI	1.0	1.0
MN0095 (E)	PGBDYIbI	0.6	2.0
MN0606CN (SCN)	WTTIYYI	1.5	1.0
M03-149100	PTTDYBlI	1.1	2.0
M03-172059	WGTDYBfI	1.3	2.0
M05-243040	PGBDYYI	1.4	1.0
M05-363022	P+WGTDYYI	1.5	1.0
ND07-2205	PGBDYGrI	1.5	2.0
ND07-2303	PGBDYYI	1.3	3.0
ND07-3761	WGBDYYI	1.0	2.0
SD07CV-539	WGBDYYI	1.1	1.0
SD08CV-0015	WGBDYBfI	1.1	1.0
SD08CV-0018	WTBDYBfI	0.9	1.0

UNIFORM TEST 0, 2012

REGIONAL SUMMARY

No. of Tests Strain	Yield 8 bu/a	Rank 8 No.	Maturity 9 Date	Lodging 8 Score	Plant Height 8 In.	Seed Quality 9 Score	Seed Size 9 g/100	Composition Protein 8 %	 Oil 8 %
Sheyenne (0)	54.9	2	9/8	1.1	32	1.7	16.2	33.5	18.6
MN1410 (I)	54.9	2	5.9	1.5	33	1.5	16.9	35.2	18.5
Surge (L)	50.4	8	1.9	1.2	29	1.1	19.1	35.5	18.4
MN0095 (E)	44.5	15	-3.9	1.2	25	1.5	13.5	34.4	18.4
MN0606CN (SCN)	49.7	9	3.1	1.5	30	1.4	15.5	34.4	18.4
M03-149100	46.1	13	-4.7	1.9	31	1.2	14.3	33.3	19.0
M03-172059	54.2	4	1.3	1.1	32	1.2	15.5	33.1	19.1
M05-243040	45.0	14	-3.6	1.1	27	1.7	16.2	35.6	17.8
M05-363022	52.8	5	1.6	1.1	30	1.3	15.6	34.4	18.4
ND07-2205	48.6	12	-0.6	1.0	25	1.4	16.0	33.4	19.5
ND07-2303	49.6	10	-3.0	1.2	28	1.3	14.4	33.1	19.3
ND07-3761	48.7	11	-2.3	1.3	28	1.3	15.7	32.8	19.1
SD07CV-539	52.8	5	3.4	1.1	30	1.2	15.6	33.0	18.9
SD08CV-0015	56.2	1	4.4	1.3	34	1.2	18.1	34.7	18.3
SD08CV-0018	52.6	7	1.4	1.0	30	1.4	15.7	33.7	19.3

108.3 Days After Planting

UNIFORM TEST 0, 2012

2011-2012 2-YEAR MEAN

No. of Tests Strain	Yield 14 bu/a	Rank 14 No.	Maturity 15 Date	Lodging 15 Score	Plant Height 14 In.	Seed Quality 16 Score	Seed Size 16 g/100	Composition Protein 14 %	 Oil 14 %
Sheyenne (0)	58.3	3	9/15	1.2	32	1.6	16.6	34.1	18.4
MN1410 (I)	62.5	1	5.4	1.4	33	1.6	17.4	35.3	18.5
Surge (L)	55.9	5	0.8	1.2	29	1.3	19.8	36.0	18.3
MN0095 (E)	48.0	9	-4.7	1.3	26	1.5	13.9	34.8	18.5
MN0606CN (SCN)	52.7	8	1.6	1.5	29	1.3	15.6	34.8	18.4
M03-172059	58.9	2	1.0	1.1	32	1.2	16.1	33.7	18.9
ND07-2303	54.4	6	-2.5	1.3	29	1.3	14.5	33.2	19.4
ND07-3761	53.6	7	-2.7	1.3	27	1.3	16.4	32.9	19.1
SD07CV-539	57.8	4	4.2	1.3	29	1.7	15.7	33.4	18.8

111.0 Days After Planting

UNIFORM TEST 0, 2012

YIELD (bu/a)

Strain	Mean 8 Tests	Morris MN	Rosemount MN	Casselton ND	Ottawa ONT	St. Pauls ONT	Woodstock ONT	St. Mathieu de-Beloeil Que.	Bristol* SD	Volga SD
Sheyenne (0)	54.9	37.9	45.6	70.0	27.2	66.6	52.7	94.1	35.6	45.3
MN1410 (I)	54.9	34.1	38.4	66.7	28.8	72.7	56.0	98.0	29.9	44.3
Surge (L)	50.4	35.0	43.3	63.3	28.7	61.4	38.6	86.9	28.1	46.1
MN0095 (E)	44.5	39.0	41.8	58.1	25.0	52.4	31.1	70.2	39.1	38.0
MN0606CN (SCN)	49.7	37.7	40.9	56.3	28.3	62.8	45.9	84.2	36.9	41.8
M03-149100	46.1	45.6	33.9	62.8	27.0	54.3	40.5	73.7	30.9	30.7
M03-172059	54.2	42.0	43.1	67.7	32.7	73.3	48.5	83.2	34.3	43.0
M05-243040	45.0	41.5	39.6	53.6	22.8	60.6	33.0	70.1	26.5	39.0
M05-363022	52.8	46.2	48.4	70.1	28.3	64.1	43.9	76.4	38.6	45.0
ND07-2205	48.6	37.3	50.7	62.0	21.2	62.7	36.8	75.3	35.2	43.2
ND07-2303	49.6	37.7	38.2	65.9	18.1	63.9	45.2	83.6	36.0	44.5
ND07-3761	48.7	40.6	38.5	66.6	23.6	59.3	38.0	83.4	41.3	39.4
SD07CV-539	52.8	40.7	40.3	65.4	28.7	67.6	49.7	85.2	47.7	44.5
SD08CV-0015	56.2	41.5	41.9	71.8	27.1	71.3	54.8	91.4	46.6	49.8
SD08CV-0018	52.6	40.1	40.3	69.0	26.1	66.7	52.5	82.6	44.6	43.3
Location Mean		39.8	41.7	64.6	26.2	64.0	44.5	82.6	36.8	42.5
C.V. (%)		11.6	9.3	8.8	9.0	9.4	10.4	5.2	24.0	6.9
L.S.D. (5%)		7.7	6.4	9.3	3.3	10.0	7.7	7.2	14.8	4.1
Row Sp. (In.)		30	30	30	17.7	14	14	7	30	30
Rows/Plot		4	4	4	4	4	4	5	4	4
Reps		3	3	3	3	3	3	2	3	3

*Data not included in mean.

UNIFORM TEST 0, 2012

YIELD RANK

Strain	Yield Rank	Morris MN	Rosemount MN	Casselton ND	Ottawa ONT	St. Pauls ONT	Woodstock ONT	St. Mathieu de-Beloeil Que.	Bristol SD	Volga SD
Sheyenne (0)	2	10	3	3	7	6	3	2	9	3
MN1410 (I)	2	15	13	6	2	2	1	1	13	7
Surge (L)	8	14	4	10	3	11	11	4	14	2
MN0095 (E)	15	9	7	13	11	15	15	14	5	14
MN0606CN (SCN)	9	11	8	14	5	9	7	6	7	11
M03-149100	13	2	15	11	9	14	10	13	12	15
M03-172059	4	3	5	5	1	1	6	9	11	10
M05-243040	14	4	11	15	13	12	14	15	15	13
M05-363022	5	1	2	2	6	7	9	11	6	4
ND07-2205	12	13	1	12	14	10	13	12	10	9
ND07-2303	10	11	14	8	15	8	8	7	8	5
ND07-3761	11	7	12	7	12	13	12	8	4	12
SD07CV-539	5	6	9	9	4	4	5	5	1	5
SD08CV-0015	1	4	6	1	8	3	2	3	2	1
SD08CV-0018	7	8	9	4	10	5	4	10	3	8

UNIFORM TEST 0, 2012

MATURITY (date)

Strain	Mean 9 Tests	Morris MN	Rosemount MN	Casselton ND	Ottawa ONT	St. Pauls ONT	Woodstock ONT	St. Mathieu de-Beloeil Que.	Bristol SD	Volga SD
Sheyenne (0)	9/8	9/4	9/6	9/16	9/10	9/15	9/7	9/17	8/31	8/31
MN1410 (I)	5.9	5	5	4	9	-1	7	5	10	9
Surge (L)	1.9	0	0	1	4	0	-1	1	8	4
MN0095 (E)	-3.9	-1	-2	-10	0	-6	-4	-7	-3	-2
MN0606CN (SCN)	3.1	2	6	0	7	-1	6	-1	8	1
M03-149100	-4.7	0	-3	-8	-5	-11	-4	-7	-2	-2
M03-172059	1.3	3	0	0	3	-5	0	1	8	2
M05-243040	-3.6	0	-3	-6	-4	-8	-2	-6	-1	-2
M05-363022	1.6	1	4	3	1	-6	1	-1	8	3
ND07-2205	-0.6	0	-4	0	2	-4	-1	1	-3	4
ND07-2303	-3.0	0	-4	-5	-6	-9	2	-2	-3	0
ND07-3761	-2.3	3	-4	0	-6	-4	-4	-2	-2	-2
SD07CV-539	3.4	0	3	3	4	0	6	3	8	4
SD08CV-0015	4.4	1	8	5	8	2	7	5	10	4
SD08CV-0018	1.4	4	-1	1	2	-3	1	-1	8	2
Date Planted	5/23	6/5	5/31	5/9	5/19	5/14	5/24	6/7	5/22	5/14
Days to Mature	108	91	98	130	114	124	106	102	101	109

UNIFORM TEST 0, 2012

LODGING (score)

Strain	Mean 8 Tests	Morris MN	Rosemount MN	Casselton ND	Ottawa ONT	St. Pauls ONT	Woodstock ONT	St. Mathieu de-Beloeil Que.	Bristol SD	Volga SD
Sheyenne (0)	1.1	1.0	1.3	1.0		1.2	1.0	1.3	1.0	1.0
MN1410 (I)	1.5	1.0	1.7	1.0		1.2	1.0	3.0	1.0	2.0
Surge (L)	1.2	1.0	1.3	1.0		1.0	1.0	2.3	1.0	1.0
MN0095 (E)	1.2	1.0	1.7	1.0		1.2	1.0	1.0	1.0	2.0
MN0606CN (SCN)	1.5	1.0	1.7	1.0		1.2	1.0	2.0	1.0	3.0
M03-149100	1.9	1.0	2.0	1.0		1.3	1.2	2.0	2.0	5.0
M03-172059	1.1	1.0	1.7	1.0		1.0	1.0	1.0	1.0	1.0
M05-243040	1.1	1.0	1.0	1.0		1.0	1.0	1.0	1.0	2.0
M05-363022	1.1	1.0	1.3	1.0		1.0	1.0	1.3	1.0	1.0
ND07-2205	1.0	1.0	1.0	1.0		1.0	1.0	1.0	1.0	1.0
ND07-2303	1.2	1.0	1.0	1.0		1.0	1.0	1.3	1.0	2.0
ND07-3761	1.3	1.0	2.0	1.0		1.0	1.0	1.0	1.0	2.0
SD07CV-539	1.1	1.0	1.0	1.0		1.0	1.0	2.0	1.0	1.0
SD08CV-0015	1.3	1.0	1.0	1.0		1.0	1.0	2.7	1.0	2.0
SD08CV-0018	1.0	1.0	1.0	1.0		1.0	1.0	1.3	1.0	1.0

UNIFORM TEST 0, 2012

PLANT HEIGHT (inches)

Strain	Mean 8 Tests	Morris MN	Rosemount MN	Casselton ND	Ottawa ONT	St. Pauls ONT	Woodstock ONT	St. Mathieu de-Beloeil Que.	Bristol SD	Volga SD
Sheyenne (0)	32		43	43	17	29	27	30	31	34
MN1410 (I)	33		43	42	18	30	29	37	31	35
Surge (L)	29		42	37	17	26	22	31	19	35
MN0095 (E)	25		34	33	13	20	20	28	20	32
MN0606CN (SCN)	30		44	40	15	26	28	32	24	35
M03-149100	31		36	42	18	29	24	33	31	35
M03-172059	32		37	42	18	32	29	31	31	33
M05-243040	27		35	41	13	27	23	28	17	33
M05-363022	30		39	42	15	26	23	33	28	34
ND07-2205	25		32	32	13	23	23	25	19	30
ND07-2303	28		41	37	15	25	25	30	21	33
ND07-3761	28		35	41	14	23	26	28	28	31
SD07CV-539	30		41	41	15	26	28	31	28	31
SD08CV-0015	34		41	41	18	33	30	35	38	34
SD08CV-0018	30		35	39	17	28	28	30	29	31

UNIFORM TEST 0, 2012

SEED QUALITY (score)

Strain	Mean 9 Tests	Morris MN	Rosemount MN	Casselton ND	Ottawa ONT	St. Pauls ONT	Woodstock ONT	St. Mathieu de-Beloeil Que.	Bristol SD	Volga SD
Sheyenne (0)	1.7	2.0	1.0	2.0	2.3	2.0	1.5	2.3	1.0	1.0
MN1410 (I)	1.5	1.0	2.0	1.0	1.3	1.5	1.5	2.0	1.0	2.0
Surge (L)	1.1	1.0	1.0	1.0	0.6	1.5	1.5	1.7	1.0	1.0
MN0095 (E)	1.5	1.0	1.0	1.0	2.0	1.5	2.0	2.0	1.0	2.0
MN0606CN (SCN)	1.4	1.0	1.0	1.0	1.1	2.0	1.5	2.0	1.0	2.0
M03-149100	1.2	1.0	1.0	1.0	1.5	1.5	1.5	1.7	1.0	1.0
M03-172059	1.2	1.0	1.0	1.0	1.1	1.5	1.5	1.7	1.0	1.0
M05-243040	1.7	2.0	1.0	2.0	2.1	1.5	2.0	2.0	1.0	2.0
M05-363022	1.3	1.0	1.0	1.0	1.5	1.5	1.5	2.0	1.0	1.0
ND07-2205	1.4	2.0	1.0	1.0	1.0	1.5	2.0	2.0	1.0	1.0
ND07-2303	1.3	1.0	1.0	1.0	1.0	1.5	1.5	2.0	1.0	2.0
ND07-3761	1.3	1.0	1.0	1.0	1.8	1.5	1.5	1.7	1.0	1.0
SD07CV-539	1.2	1.0	1.0	1.0	1.2	1.5	1.5	1.7	1.0	1.0
SD08CV-0015	1.2	1.0	1.0	1.0	1.0	1.5	1.5	1.7	1.0	1.0
SD08CV-0018	1.4	1.0	1.0	1.0	2.7	2.0	1.5	1.7	1.0	1.0

UNIFORM TEST 0, 2012

SEED SIZE (g/100)

Strain	Mean 9 Tests	Morris MN	Rosemount MN	Casselton ND	Ottawa ONT	St. Pauls ONT	Woodstock ONT	St. Mathieu de-Beloeil Que.	Bristol SD	Volga SD
Sheyenne (0)	16.2	15.0	15.8	15.7	17.9	19.0	15.4	17.9	15.2	13.9
MN1410 (I)	16.9	13.2	13.4	14.6	21.0	21.4	18.2	19.7	15.7	14.8
Surge (L)	19.1	15.1	16.8	19.0	22.3	23.6	18.3	22.5	16.8	17.1
MN0095 (E)	13.5	11.8	13.5	14.0	14.5	16.1	11.3	15.1	13.5	12.1
MN0606CN (SCN)	15.5	14.6	14.0	15.2	18.5	19.8	15.2	16.6	12.9	12.4
M03-149100	14.3	12.8	12.8	14.1	16.9	17.5	13.0	16.2	12.9	12.3
M03-172059	15.5	12.9	14.5	13.2	19.8	18.3	15.6	17.0	14.3	13.8
M05-243040	16.2	14.0	15.7	15.6	19.5	19.5	14.1	19.3	14.0	14.5
M05-363022	15.6	13.1	14.8	14.3	18.1	17.1	16.4	19.0	14.3	13.2
ND07-2205	16.0	14.0	14.9	15.4	17.7	19.5	15.8	18.2	14.5	14.1
ND07-2303	14.4	11.8	14.0	15.7	16.6	16.4	13.6	15.4	13.0	12.7
ND07-3761	15.7	12.5	15.5	13.9	18.3	20.0	14.8	18.4	14.7	13.3
SD07CV-539	15.6	12.7	14.8	14.3	18.2	18.5	15.8	17.7	14.4	13.6
SD08CV-0015	18.1	14.3	15.4	16.6	22.3	22.5	19.8	20.6	16.9	14.2
SD08CV-0018	15.7	12.7	14.1	15.2	19.3	19.3	15.2	18.1	13.8	13.2

UNIFORM TEST 0, 2012

PROTEIN (%)

Strain	Mean 8 Tests	Morris MN	Rosemount MN	Casselton ND	Ottawa ONT	St. Pauls ONT	Woodstock ONT	St. Mathieu de-Beloeil Que.	Volga SD
Sheyenne (0)	33.5	34.3	35.0	29.6	34.7	33.1	35.6	32.4	33.6
MN1410 (I)	35.2	35.7	36.8	30.0	37.4	35.6	37.2	33.7	35.1
Surge (L)	35.5	35.7	36.0	32.2	37.1	35.8	36.7	35.0	35.7
MN0095 (E)	34.4	34.5	35.7	29.7	35.0	35.4	36.7	34.1	34.4
MN0606CN (SCN)	34.4	33.9	35.6	29.7	36.0	34.7	37.1	33.4	34.8
M03-149100	33.3	33.5	33.4	29.6	35.0	33.7	35.2	32.7	33.3
M03-172059	33.1	33.1	34.3	27.6	35.3	33.2	35.8	31.7	33.8
M05-243040	35.6	35.9	35.7	31.8	37.5	35.3	37.6	35.3	35.4
M05-363022	34.4	36.0	36.3	28.7	35.9	33.8	36.2	33.8	34.8
ND07-2205	33.4	34.4	35.5	27.9	35.1	33.5	34.6	32.7	33.7
ND07-2303	33.1	34.5	34.7	26.6	35.1	32.6	34.9	31.9	34.2
ND07-3761	32.8	33.1	34.0	28.4	32.8	35.1	34.6	31.6	32.6
SD07CV-539	33.0	32.6	34.6	28.1	35.8	32.7	35.2	31.6	33.8
SD08CV-0015	34.7	34.6	37.2	29.0	36.1	34.5	37.2	33.8	35.6
SD08CV-0018	33.7	32.5	35.3	29.1	35.7	34.5	35.7	33.2	33.9

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

UNIFORM TEST 0, 2012

OIL (%)

Strain	Mean 8 Tests	Morris MN	Rosemount MN	Casselton ND	Ottawa ONT	St. Pauls ONT	Woodstock ONT	St. Mathieu de-Beloeil Que.	Volga SD
Sheyenne (0)	18.6	18.8	18.2	17.4	19.1	18.4	18.4	19.1	19.3
MN1410 (I)	18.5	18.9	17.7	18.0	18.7	18.4	18.1	18.9	19.0
Surge (L)	18.4	18.4	18.7	16.8	18.9	18.1	18.3	18.4	19.4
MN0095 (E)	18.4	18.7	18.2	17.0	19.5	18.4	17.3	18.7	19.5
MN0606CN (SCN)	18.4	18.5	18.5	17.8	18.7	18.5	18.1	18.4	18.9
M03-149100	19.0	19.3	19.4	17.9	19.1	19.1	18.8	18.9	20.0
M03-172059	19.1	19.7	19.2	18.8	19.1	18.9	18.6	19.2	19.4
M05-243040	17.8	17.6	17.8	17.1	18.1	17.9	17.3	18.0	18.5
M05-363022	18.4	17.9	18.2	18.5	18.9	18.4	18.4	18.1	18.7
ND07-2205	19.5	19.6	19.0	18.9	19.9	19.7	19.7	19.2	20.2
ND07-2303	19.3	19.2	19.3	18.3	19.9	19.4	19.1	19.7	20.0
ND07-3761	19.1	19.2	19.1	17.8	20.4	17.9	18.7	19.4	20.2
SD07CV-539	18.9	19.6	18.0	18.0	19.1	19.1	19.0	19.2	19.3
SD08CV-0015	18.3	18.8	17.5	18.4	18.7	18.2	17.9	18.6	18.5
SD08CV-0018	19.3	20.8	18.7	18.7	19.4	18.8	18.8	19.1	19.8

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

Preliminary Test 0, 2012

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.	M06-235009	M99-286149 x MN1606SP	Orf	F5	SDS
6.	M06-247018	MN0307SP x MN0091	Orf	F5	SSR
7.	M06-337010	PARKER x ND02-971	Orf	F5	OIL
8.	M06-356031	PI592960 x PI603308B	Orf	F5	Slow Wilting
9.	M06-358171	PI437161 x M94-275024	Orf	F5	Slow Wilting
10.	M06-358188	PI437161 x M94-275024	Orf	F5	Slow Wilting
11.	M06-361002	MTC00-113-61-7 x MTC00-112-412-10	Orf	F5	Slow Wilting
12.	M06-361006	MTC00-113-61-7 x MTC00-112-412-10	Orf	F5	Slow Wilting
13.	M06-380029	Jim x PI548325	Orf	F5	Diversity
14.	M06-381085	M97-136016 X PI603290	Orf	F5	Diversity
15.	ND06-4642	Norpro(Rps6) x ND99-4022	Helms	F4	Rps6, protein
16.	ND07-3947	M97-136016 x ND99-4022	Helms	F4	Rps1k, protein
17.	ND08-9127	LaMoure x ND01-3533	Helms	F4	Rps1c
18.	ND08-9141	LaMoure x ND01-3533	Helms	F4	Rps1c
19.	ND08-9273	ND01-1912 x M95-255017	Helms	F4	Rps1c
20.	ND09-3674	Cavalier x ND02-4166	Helms	F4	Rps6
21.	ND09-4027	Cavalier x ND03-6795	Helms	F4	Rps6
22.	ND09-4322	Hamlin x (ND01-1912 x M95-255017)	Helms	F4	Rps6
23.	ND09-5526	ND03-5047*ND03-4757	Helms	F4	Rps1c
24.	ND09-5708	ND03-7267 x Sheyenne	Helms	F4	Rps6
25.	ND09-5757	ND03-7267 x Sheyenne	Helms	F4	Rps6
26.	ND09-5762	ND03-7267 x Sheyenne	Helms	F4	Rps6
27.	ND09-5764	ND03-7267 x Sheyenne	Helms	F4	Rps6
28.	OAC 10-06C	OAC Champion x S08-80	Rajcan	F5	
29.	OAC 10-20C	OAC Lakeview x RCAT Wildcat	Rajcan	F5	
30.	OAC 10-24C	OAC Lakeview x SD00-167	Rajcan	F5	
31.	SD06-393	SDX98-74151 x M96-71481	Jiang	F5	Oil & yield
32.	SD06-415	SDX98-76192 x N98-4445A	Jiang	F5	Oil & yield
33.	SD06-418	SDX98-76192 x N98-4445A	Jiang	F5	Oil & yield
34.	SD06-455	SDX98-76192 x N98-4445A	Jiang	F5	Oil & yield
35.	SD09CV-0012	Lambert x SDX02FA-5-4	Jiang	F5	Oil & yield
36.	SD09CV-0030	Parker x SD00-1501	Jiang	F5	Yield
37.	SD09CV-0047	SD00-1391 x SD03-3221	Jiang	F5	Yield
38.	SD09CV-0055	SD03-221 x M98-308007	Jiang	F5	Yield
39.	SD09CV-0076	SD03-730 x SD03-221	Jiang	F5	Proetin & yield
40.	SD09CV-0133	Surge x Loda	Jiang	F5	Yield

PRELIMINARY TEST 0, 2012

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	Chlorosis Score Danvers MN	Shattering Score Manhattan KS
Sheyenne (0)	PTBIYYI	1.8	1.0
MN1410 (I)	WTBIYBfI	3.4	1.0
Surge (L)	PTBDYIbI	3.0	1.0
MN0095 (E)	PTBDYIbI	2.4	1.0
M06-235009	WTBIYYI	2.3	1.0
M06-247018	PTBDYYI	2.1	3.0
M06-337010	WGBDYBfI	3.1	1.0
M06-356031	PGTIYYI	2.4	1.0
M06-358171	P+WT+GBSYBr+BfI	2.8	3.0
M06-358188	PGBIYBfI	2.3	1.0
M06-361002	PT+GTDYBr+BfI	2.5	1.0
M06-361006	P+WGTDYBfI	2.1	1.0
M06-380029	PGBIYBfI	2.4	2.0
M06-381085	P+WGBDYYI	4.1	2.0
ND06-4642	PGBDYYI	3.3	3.0
ND07-3947	PGBDYBfI	2.5	3.0
ND08-9127	WTBDYBl+BrI	3.4	1.0
ND08-9141	WTBDYBrI	3.1	1.0
ND08-9273	WGBDYBfI	2.1	3.0
ND09-3674	PGBDYYI	2.1	1.0
ND09-4027	PGBDYBfI	2.6	1.0
ND09-4322	WTBDYBlI	3.0	1.0
ND09-5526	PGBDYBfI	3.0	1.0
ND09-5708	WT+GTDYYI	1.9	1.0
ND09-5757	PT+GBDYYI	2.5	1.0
ND09-5762	PGBDYYI	2.9	2.0
ND09-5764	WTTDYYI	2.1	1.0
OAC 10-06C	PTTDYYI	3.6	2.0
OAC 10-20C	PGTDYLgI	2.4	2.0
OAC 10-24C	PGBDYGI	3.8	3.0
SD06-393	PGBDYBfI	2.8	1.0
SD06-415	PGBDYBfI	2.0	1.0
SD06-418	PGBDYBfI	2.6	1.0
SD06-455	PGBDYBfI	2.3	1.0
SD09CV-0012	PGTDYLbfI	1.4	1.0
SD09CV-0030	PTBDYBrI	2.1	1.0
SD09CV-0047	P+WTTDYBl+GI	2.8	1.0
SD09CV-0055	WGTDYBfI	1.9	1.0
SD09CV-0076	PTBDYBlI	2.6	1.0
SD09CV-0133	PGBDYIbI	2.5	1.0

PRELIMINARY TEST 0, 2012

REGIONAL SUMMARY

No. of Tests Strain	Yield 7 bu/a	Rank 7 No.	Maturity 7 Date	Lodging 6 Score	Plant Height 6 In.	Seed Quality 7 Score	Seed Size 7 g/100	Composition Protein 6 %	 Oil 6 %
Sheyenne (0)	46.5	1	9/9	1.0	35	1.4	15.2	33.2	18.7
MN1410 (I)	46.4	2	6.7	1.4	36	1.4	15.8	34.5	18.6
Surge (L)	42.3	13	1.1	1.2	34	1.4	17.7	34.9	18.6
MN0095 (E)	37.4	34	-5.6	1.0	29	1.5	13.0	34.2	18.8
M06-235009	37.3	36	1.9	1.2	36	1.4	18.0	36.6	17.9
M06-247018	32.8	40	-4.9	1.0	28	1.5	18.6	36.6	18.2
M06-337010	40.5	25	-1.9	1.4	34	1.6	15.3	33.8	19.9
M06-356031	36.2	37	2.3	1.2	33	1.5	16.5	34.1	17.8
M06-358171	38.4	28	8.1	2.2	46	1.7	14.7	35.1	17.6
M06-358188	41.1	19	7.0	1.7	38	1.6	14.5	34.4	18.8
M06-361002	39.2	27	7.4	1.3	40	1.4	15.9	35.6	17.8
M06-361006	38.0	29	2.6	1.5	38	1.4	14.1	34.8	18.8
M06-380029	41.1	19	-2.1	1.5	32	1.5	15.0	34.5	18.1
M06-381085	44.1	8	4.6	1.7	35	1.2	16.5	34.9	17.7
ND06-4642	35.7	38	-1.4	1.0	33	1.4	15.8	36.8	16.9
ND07-3947	43.3	9	-0.4	1.3	33	1.7	16.7	36.5	18.1
ND08-9127	41.4	18	0.1	1.0	34	1.2	15.4	32.4	19.1
ND08-9141	40.8	21	-0.6	1.0	31	1.6	15.3	33.2	18.9
ND08-9273	37.9	31	-3.7	1.1	33	1.6	13.5	34.0	19.2
ND09-3674	37.6	32	-5.1	1.7	34	1.9	17.1	33.6	19.3
ND09-4027	38.0	29	-4.1	1.2	32	1.5	14.9	33.1	19.5
ND09-4322	41.6	17	-0.7	1.0	30	1.5	17.0	35.8	18.3
ND09-5526	42.5	12	-2.6	1.2	31	1.9	15.5	33.7	19.5
ND09-5708	42.1	15	-3.1	1.6	33	1.7	13.8	33.1	18.9
ND09-5757	42.2	14	-3.9	1.2	32	1.4	14.2	34.1	18.3
ND09-5762	40.7	23	-2.4	1.7	33	1.7	13.7	33.6	18.4
ND09-5764	44.9	6	-0.1	1.2	33	1.6	15.5	32.2	19.1
OAC 10-06C	37.4	34	-0.3	1.3	36	1.4	16.6	35.0	19.7
OAC 10-20C	45.1	5	2.7	1.3	33	1.4	15.4	34.7	18.9
OAC 10-24C	46.1	3	-0.3	1.4	35	1.4	17.1	33.5	19.2
SD06-393	40.8	21	4.0	1.7	36	1.4	17.1	33.3	19.5
SD06-415	45.8	4	5.3	1.0	31	1.4	16.1	33.4	20.0
SD06-418	43.3	9	4.9	1.2	36	1.9	15.4	34.3	18.7
SD06-455	42.6	11	5.7	1.9	37	1.7	15.4	34.6	18.2
SD09CV-0012	41.8	16	2.6	1.3	38	1.3	15.2	34.7	18.9
SD09CV-0030	40.0	26	0.1	1.9	35	1.6	16.4	36.7	17.5
SD09CV-0047	37.6	32	7.6	2.4	41	1.9	17.1	37.1	17.8
SD09CV-0055	40.6	24	2.4	2.1	36	1.9	18.4	36.5	17.8
SD09CV-0076	35.2	39	4.7	1.7	37	1.6	17.5	38.1	17.1
SD09CV-0133	44.2	7	3.6	1.9	34	1.5	17.4	35.0	18.9

107.4 Days After Planting

PRELIMINARY TEST 0, 2012

YIELD (bu/a)

Strain	Mean 7 Tests	Morris MN	Rosemount MN	Casselton ND	Woodstock ONT	St. Mathieu de-Beloeil Que.	Volga SD	Watertown SD
Sheyenne (0)	46.5	32.7	38.4	65.7	31.3	79.0	41.9	36.3
MN1410 (I)	46.4	32.2	42.5	59.3	32.7	82.5	39.6	35.9
Surge (L)	42.3	23.6	39.2	60.5	25.0	70.5	42.0	35.5
MN0095 (E)	37.4	30.5	31.9	52.7	17.5	57.8	37.5	34.1
M06-235009	37.3	30.2	32.7	56.3	28.2	58.3	29.5	25.6
M06-247018	32.8	26.9	30.9	40.6	18.1	48.0	33.6	31.4
M06-337010	40.5	29.4	37.2	51.1	21.6	65.4	41.1	38.1
M06-356031	36.2	29.4	28.5	52.7	24.7	53.8	39.1	25.2
M06-358171	38.4	26.6	36.4	50.7	33.3	65.4	31.0	25.4
M06-358188	41.1	28.5	33.4	47.1	39.9	65.5	41.0	32.6
M06-361002	39.2	26.4	31.8	53.4	27.0	70.0	34.9	30.8
M06-361006	38.0	29.5	31.4	58.9	21.3	55.4	40.7	29.1
M06-380029	41.1	30.9	35.6	54.8	27.8	70.1	34.0	34.2
M06-381085	44.1	30.6	34.2	61.3	37.0	74.9	37.2	33.7
ND06-4642	35.7	25.3	30.7	50.1	18.9	55.3	39.3	30.3
ND07-3947	43.3	30.1	40.3	57.2	28.8	75.6	36.2	34.6
ND08-9127	41.4	32.1	39.2	60.2	23.8	62.4	39.5	32.4
ND08-9141	40.8	29.0	35.2	59.8	19.4	59.1	43.0	39.8
ND08-9273	37.9	30.8	40.1	58.3	12.7	60.5	29.6	33.2
ND09-3674	37.6	30.6	31.4	52.7	25.7	57.7	27.5	37.4
ND09-4027	38.0	23.0	26.2	57.0	17.3	63.4	38.6	40.7
ND09-4322	41.6	25.9	39.3	63.7	19.3	66.1	39.7	36.9
ND09-5526	42.5	28.6	39.8	56.7	26.7	68.1	39.2	38.7
ND09-5708	42.1	36.4	36.5	63.0	17.4	63.5	44.0	34.1
ND09-5757	42.2	27.1	32.7	62.7	26.6	68.9	41.3	36.1
ND09-5762	40.7	32.5	32.3	55.9	30.4	55.0	42.3	36.6
ND09-5764	44.9	27.2	38.3	64.1	28.1	77.1	40.8	38.8
OAC 10-06C	37.4	29.1	29.8	50.9	23.6	59.0	38.5	30.6
OAC 10-20C	45.1	32.3	34.1	55.0	34.7	86.0	39.4	34.0
OAC 10-24C	46.1	29.3	41.1	56.6	36.4	84.7	37.2	37.4
SD06-393	40.8	30.2	27.8	41.0	39.2	76.3	38.7	32.3
SD06-415	45.8	30.3	41.4	57.6	37.4	75.7	45.2	33.3
SD06-418	43.3	30.1	32.2	55.8	37.1	74.9	42.4	30.8
SD06-455	42.6	29.1	31.7	56.1	32.7	78.0	38.2	32.3
SD09CV-0012	41.8	31.4	38.8	62.4	26.7	70.3	36.1	26.9
SD09CV-0030	40.0	28.6	34.5	59.3	28.4	64.5	32.9	32.0
SD09CV-0047	37.6	29.3	28.4	53.8	31.1	63.5	32.6	24.3
SD09CV-0055	40.6	28.0	32.7	54.7	31.1	70.0	35.2	32.8
SD09CV-0076	35.2	27.8	31.0	50.3	20.8	56.5	33.3	26.7
SD09CV-0133	44.2	29.3	39.5	63.0	22.3	74.0	44.9	36.5
Location Mean		29.3	34.7	56.1	27.1	67.1	38.0	33.2
C.V. (%)		14.4	10.3	14.2	9.9	9.4	10.0	6.9
L.S.D. (5%)		8.5	7.2	13.0	5.4	13.0	6.4	4.6
Row Sp. (In.)		30	30	30	14	7	30	30
Rows/Plot		4	4	4	4	5	4	4
Reps		2	2	3	2	2	2	2

PRELIMINARY TEST 0, 2012

YIELD RANK

Strain	Yield Rank	Morris MN	Rosemount MN	Casselton ND	Woodstock ONT	St. Mathieu de-Beloeil Que.	Volga SD	Watertown SD
Sheyenne (0)	1	2	12	1	11	4	8	10
MN1410 (I)	2	5	1	12	9	3	15	12
Surge (L)	13	39	9	9	25	13	7	13
MN0095 (E)	34	12	28	30	37	33	25	16
M06-235009	36	14	23	21	17	32	38	33
M06-247018	40	34	34	40	36	40	32	26
M06-337010	25	19	14	33	30	22	10	5
M06-356031	37	19	37	30	26	39	20	35
M06-358171	28	35	16	35	8	23	36	34
M06-358188	19	29	22	38	1	21	11	22
M06-361002	27	36	29	29	20	16	30	27
M06-361006	29	18	31	14	31	36	13	30
M06-380029	19	8	17	26	19	15	31	15
M06-381085	8	10	20	8	5	10	26	18
ND06-4642	38	38	35	37	35	37	18	29
ND07-3947	9	16	4	17	15	9	27	14
ND08-9127	18	6	9	10	27	28	16	23
ND08-9141	21	26	18	11	33	30	4	2
ND08-9273	31	9	5	15	40	29	37	20
ND09-3674	32	10	31	30	24	34	39	6
ND09-4027	29	40	40	18	39	27	22	1
ND09-4322	17	37	8	3	34	20	14	7
ND09-5526	12	27	6	19	21	19	19	4
ND09-5708	15	1	15	4	38	25	3	16
ND09-5757	14	33	24	6	23	18	9	11
ND09-5762	23	3	26	23	14	38	6	8
ND09-5764	6	32	13	2	18	6	12	3
OAC 10-06C	34	24	36	34	28	31	23	28
OAC 10-20C	5	4	21	25	7	1	17	17
OAC 10-24C	3	21	3	19	6	2	26	6
SD06-393	21	14	39	39	2	7	21	24
SD06-415	4	13	2	16	3	8	1	19
SD06-418	9	16	27	24	4	11	5	27
SD06-455	11	24	30	22	9	5	24	24
SD09CV-0012	16	7	11	7	21	14	28	31
SD09CV-0030	26	27	19	12	16	24	34	25
SD09CV-0047	32	21	38	28	12	26	35	36
SD09CV-0055	24	30	24	26	12	17	29	21
SD09CV-0076	39	31	33	36	32	35	33	32
SD09CV-0133	7	21	7	5	29	12	2	9

PRELIMINARY TEST 0, 2012

MATURITY (date)

Strain	Mean 7 Tests	Morris MN	Rosemount MN	Casselton ND	Woodstock ONT	St. Mathieu de-Beloeil Que.	Volga SD	Watertown SD
Sheyenne (0)	9/9	9/11	9/6	9/18	9/6	9/16	9/1	9/6
MN1410 (I)	6.7	10	10	3	6	6	5	7
Surge (L)	1.1	4	4	0	-2	0	1	1
MN0095 (E)	-5.6	-6	-6	-10	-2	-8	-3	-4
M06-235009	1.9	4	4	-1	3	-2	5	0
M06-247018	-4.9	-4	-4	-9	-3	-8	-2	-4
M06-337010	-1.9	-2	-2	-1	-2	-2	-1	-3
M06-356031	2.3	2	2	3	3	4	0	2
M06-358171	8.1	12	12	6	8	7	8	4
M06-358188	7.0	12	12	3	11	7	7	-3
M06-361002	7.4	10	10	4	13	3	5	7
M06-361006	2.6	5	5	3	3	-1	1	2
M06-380029	-2.1	-2	-2	-4	0	-1	-3	-3
M06-381085	4.6	14	14	5	-8	5	5	-3
ND06-4642	-1.4	-4	-4	-2	6	-2	-1	-3
ND07-3947	-0.4	-2	-2	-3	5	-1	0	0
ND08-9127	0.1	4	4	-6	0	-1	0	0
ND08-9141	-0.6	0	0	-4	2	-1	-1	0
ND08-9273	-3.7	-2	-2	-6	-6	-5	-2	-3
ND09-3674	-5.1	-4	-4	-12	-6	-4	-3	-3
ND09-4027	-4.1	-6	-6	-5	-3	-3	-3	-3
ND09-4322	-0.7	0	0	-4	0	0	-1	0
ND09-5526	-2.6	-2	-2	-5	-1	-2	-2	-4
ND09-5708	-3.1	-2	2	-7	-4	-6	-2	-3
ND09-5757	-3.9	-2	-2	-7	-6	-4	-3	-3
ND09-5762	-2.4	2	2	-8	-2	-5	-3	-3
ND09-5764	-0.1	0	0	-3	1	0	0	1
OAC 10-06C	-0.3	6	6	-3	-6	-4	-1	0
OAC 10-20C	2.7	7	7	4	2	0	-1	0
OAC 10-24C	-0.3	-2	-2	0	3	-1	0	0
SD06-393	4.0	4	4	3	8	2	1	6
SD06-415	5.3	10	10	3	6	3	2	3
SD06-418	4.9	12	12	3	3	1	1	2
SD06-455	5.7	8	8	5	6	5	6	2
SD09CV-0012	2.6	4	4	4	3	1	1	1
SD09CV-0030	0.1	2	2	0	1	-2	1	-3
SD09CV-0047	7.6	12	12	4	7	4	8	6
SD09CV-0055	2.4	2	2	3	2	3	3	2
SD09CV-0076	4.7	6	6	6	3	4	6	2
SD09CV-0133	3.6	4	4	3	2	4	7	1
Date Planted	5/24	6/5	5/31	5/9	5/23	6/7	5/14	5/22
Days to Mature	107	98	98	132	106	101	110	107

PRELIMINARY TEST 0, 2012

LODGING (score)

Strain	Mean 6 Tests	Morris MN	Rosemount MN	Casselton ND	Woodstock ONT	St. Mathieu de-Beloeil Que.	Volga SD	Watertown SD
Sheyenne (0)	1.0		1.0	1.0	1.0	1.0	1.0	1.0
MN1410 (I)	1.4		1.0	1.0	1.0	2.5	2.0	1.0
Surge (L)	1.2		1.0	1.0	1.0	1.9	1.0	1.0
MN0095 (E)	1.0		1.0	1.0	1.0	1.0	1.0	1.0
M06-235009	1.2		1.0	1.0	1.0	2.1	1.0	1.0
M06-247018	1.0		1.0	1.0	1.0	1.1	1.0	1.0
M06-337010	1.4		1.0	1.0	1.1	1.0	3.0	1.0
M06-356031	1.2		1.0	1.0	1.0	2.1	1.0	1.0
M06-358171	2.2		1.0	1.0	1.1	3.0	5.0	2.0
M06-358188	1.7		1.0	1.0	1.0	3.1	3.0	1.0
M06-361002	1.3		1.0	1.0	1.0	1.9	2.0	1.0
M06-361006	1.5		1.0	1.0	1.0	1.9	2.0	2.0
M06-380029	1.5		1.0	1.0	1.0	1.1	4.0	1.0
M06-381085	1.7		1.0	1.0	1.1	2.8	3.0	1.0
ND06-4642	1.0		1.0	1.0	1.0	1.0	1.0	1.0
ND07-3947	1.3		1.0	1.0	1.0	1.0	3.0	1.0
ND08-9127	1.0		1.0	1.0	1.0	1.0	1.0	1.0
ND08-9141	1.0		1.0	1.0	1.0	1.2	1.0	1.0
ND08-9273	1.1		1.0	1.0	1.0	1.3	1.0	1.0
ND09-3674	1.7		1.0	1.0	1.0	1.0	5.0	1.0
ND09-4027	1.2		1.0	1.0	1.0	1.0	2.0	1.0
ND09-4322	1.0		1.0	1.0	1.0	1.0	1.0	1.0
ND09-5526	1.2		1.0	1.0	1.0	1.1	2.0	1.0
ND09-5708	1.6		1.0	1.0	1.0	1.5	4.0	1.0
ND09-5757	1.2		1.0	1.0	1.0	1.1	2.0	1.0
ND09-5762	1.7		1.0	1.0	1.0	1.0	5.0	1.0
ND09-5764	1.2		1.0	1.0	1.1	1.0	2.0	1.0
OAC 10-06C	1.3		1.0	1.0	1.0	1.0	3.0	1.0
OAC 10-20C	1.3		1.0	1.0	1.0	1.7	2.0	1.0
OAC 10-24C	1.4		1.0	1.0	1.0	1.6	2.0	2.0
SD06-393	1.7		1.0	1.0	1.0	1.9	4.0	1.0
SD06-415	1.0		1.0	1.0	1.0	1.0	1.0	1.0
SD06-418	1.2		1.0	1.0	1.0	1.3	2.0	1.0
SD06-455	1.9		1.0	1.0	1.0	2.6	3.0	3.0
SD09CV-0012	1.3		1.0	1.0	1.0	2.0	2.0	1.0
SD09CV-0030	1.9		1.0	1.0	1.0	2.6	2.0	4.0
SD09CV-0047	2.4		1.0	1.0	1.3	4.2	5.0	2.0
SD09CV-0055	2.1		1.0	1.0	1.0	3.5	3.0	3.0
SD09CV-0076	1.7		1.0	1.0	1.0	3.4	2.0	2.0
SD09CV-0133	1.9		1.0	1.0	1.0	2.5	5.0	1.0

PRELIMINARY TEST 0, 2012

PLANT HEIGHT (inches)

Strain	Mean 6 Tests	Morris MN	Rosemount MN	Casselton ND	Woodstock ONT	St. Mathieu de-Beloeil Que.	Volga SD	Watertown SD
Sheyenne (0)	35		46	38	27	33	35	32
MN1410 (I)	36		38	40	26	38	35	39
Surge (L)	34		40	33	23	33	35	38
MN0095 (E)	29		34	29	19	27	30	35
M06-235009	36		38	43	31	34	33	34
M06-247018	28		24	26	24	21	36	39
M06-337010	34		42	35	22	31	34	37
M06-356031	33		36	40	22	30	31	37
M06-358171	46		56	40	35	53	45	46
M06-358188	38		40	42	31	36	40	38
M06-361002	40		48	39	30	41	42	39
M06-361006	38		40	43	29	37	40	41
M06-380029	32		36	35	21	30	33	37
M06-381085	35		46	33	26	32	36	39
ND06-4642	33		38	32	25	31	35	37
ND07-3947	33		36	31	22	32	35	40
ND08-9127	34		38	37	22	31	34	42
ND08-9141	31		34	36	23	30	29	33
ND08-9273	33		36	36	20	27	33	43
ND09-3674	34		38	37	24	28	35	40
ND09-4027	32		30	34	21	30	35	42
ND09-4322	30		30	30	20	28	25	44
ND09-5526	31		38	34	24	28	32	32
ND09-5708	33		34	39	23	30	35	37
ND09-5757	32		36	35	21	31	34	34
ND09-5762	33		36	32	25	28	37	42
ND09-5764	33		36	36	28	31	32	32
OAC 10-06C	36		44	31	28	31	38	42
OAC 10-20C	33		40	36	25	32	32	35
OAC 10-24C	35		42	36	30	34	34	36
SD06-393	36		42	37	28	39	32	37
SD06-415	31		24	38	20	34	35	35
SD06-418	36		42	36	27	35	35	41
SD06-455	37		42	37	27	36	38	42
SD09CV-0012	38		48	42	26	35	38	39
SD09CV-0030	35		36	38	25	36	36	39
SD09CV-0047	41		54	42	32	38	41	38
SD09CV-0055	36		40	38	26	35	37	41
SD09CV-0076	37		54	39	24	36	32	36
SD09CV-0133	34		42	33	21	32	33	40

PRELIMINARY TEST 0, 2012

SEED QUALITY (score)

Strain	Mean 7 Tests	Morris MN	Rosemount MN	Casselton ND	Woodstock ONT	St. Mathieu de-Beloeil Que.	Volga SD	Watertown SD
Sheyenne (0)	1.4	1.0	1.0	1.0	2.5	2.0	1.0	1.0
MN1410 (I)	1.4	1.0	1.0	1.0	1.5	2.0	2.0	1.0
Surge (L)	1.4	1.0	2.0	1.0	1.5	2.0	1.0	1.0
MN0095 (E)	1.5	1.0	1.0	1.0	3.0	1.5	2.0	1.0
M06-235009	1.4	1.0	1.0	1.0	1.5	2.0	2.0	1.0
M06-247018	1.5	2.0	1.0	1.0	2.0	1.5	2.0	1.0
M06-337010	1.6	2.0	1.0	1.0	2.5	1.5	2.0	1.0
M06-356031	1.5	1.0	1.0	1.0	1.5	2.0	2.0	2.0
M06-358171	1.7	1.0	1.0	1.0	2.5	2.5	3.0	1.0
M06-358188	1.6	1.0	1.0	1.0	1.5	2.0	3.0	2.0
M06-361002	1.4	2.0	1.0	1.0	1.5	2.0	1.0	1.0
M06-361006	1.4	1.0	1.0	1.0	1.5	2.0	1.0	2.0
M06-380029	1.5	1.0	1.0	1.0	3.0	1.5	2.0	1.0
M06-381085	1.2	1.0	1.0	1.0	1.5	1.0	2.0	1.0
ND06-4642	1.4	1.0	1.0	1.0	1.5	2.0	2.0	1.0
ND07-3947	1.7	1.0	1.0	2.0	2.0	2.0	3.0	1.0
ND08-9127	1.2	1.0	1.0	1.0	1.5	2.0	1.0	1.0
ND08-9141	1.6	1.0	1.0	4.0	1.5	2.0	1.0	1.0
ND08-9273	1.6	2.0	1.0	1.0	3.5	2.0	1.0	1.0
ND09-3674	1.9	2.0	1.0	3.0	2.0	2.0	2.0	1.0
ND09-4027	1.5	2.0	1.0	1.0	2.5	1.0	2.0	1.0
ND09-4322	1.5	2.0	1.0	1.0	1.5	2.0	2.0	1.0
ND09-5526	1.9	1.0	1.0	5.0	2.0	2.0	1.0	1.0
ND09-5708	1.7	2.0	1.0	1.0	2.5	2.5	2.0	1.0
ND09-5757	1.4	1.0	1.0	1.0	2.0	2.0	2.0	1.0
ND09-5762	1.7	1.0	1.0	1.0	4.0	2.0	2.0	1.0
ND09-5764	1.6	2.0	1.0	1.0	1.5	3.0	2.0	1.0
OAC 10-06C	1.4	1.0	1.0	1.0	2.0	2.0	2.0	1.0
OAC 10-20C	1.4	1.0	1.0	1.0	1.5	2.0	2.0	1.0
OAC 10-24C	1.4	1.0	2.0	1.0	1.5	2.0	1.0	1.0
SD06-393	1.4	1.0	1.0	2.0	1.5	1.5	2.0	1.0
SD06-415	1.4	1.0	1.0	1.0	1.5	2.0	2.0	1.0
SD06-418	1.9	2.0	1.0	2.0	2.0	3.0	2.0	1.0
SD06-455	1.7	1.0	2.0	1.0	2.0	3.0	2.0	1.0
SD09CV-0012	1.3	1.0	1.0	1.0	1.5	1.5	2.0	1.0
SD09CV-0030	1.6	2.0	2.0	1.0	2.0	2.0	1.0	1.0
SD09CV-0047	1.9	2.0	1.0	1.0	2.0	2.5	3.0	2.0
SD09CV-0055	1.9	1.0	2.0	5.0	1.5	2.0	1.0	1.0
SD09CV-0076	1.6	1.0	2.0	1.0	1.5	2.5	2.0	1.0
SD09CV-0133	1.5	2.0	1.0	2.0	1.5	2.0	1.0	1.0

PRELIMINARY TEST 0, 2012

SEED SIZE (g/100)

Strain	Mean 7 Tests	Morris MN	Rosemount MN	Casselton ND	Woodstock ONT	St. Mathieu de-Beloeil Que.	Volga SD	Watertown SD
Sheyenne (0)	15.2	15.3	16.0	16.1	14.3	18.1	13.8	13.0
MN1410 (I)	15.8	15.5	16.1	14.7	16.8	19.7	13.5	14.6
Surge (L)	17.7	16.3	18.8	18.9	16.6	21.5	17.0	14.9
MN0095 (E)	13.0	11.8	13.6	14.4	11.5	15.5	11.9	12.6
M06-235009	18.0	17.1	18.8	17.0	19.0	22.9	16.2	14.7
M06-247018	18.6	17.1	19.8	18.4	17.7	23.8	17.2	16.3
M06-337010	15.3	13.0	17.1	15.9	14.7	18.4	14.5	13.6
M06-356031	16.5	14.4	17.0	15.8	16.6	20.4	16.9	14.1
M06-358171	14.7	13.3	15.1	13.2	16.1	17.1	14.0	14.0
M06-358188	14.5	12.9	15.3	15.0	15.3	17.2	12.9	12.9
M06-361002	15.9	14.2	16.3	16.0	17.6	17.7	14.8	14.8
M06-361006	14.1	12.6	14.6	14.3	15.9	15.7	13.3	12.4
M06-380029	15.0	13.3	15.4	16.0	14.4	18.8	13.5	13.7
M06-381085	16.5	14.0	16.9	15.8	18.8	20.9	14.7	14.4
ND06-4642	15.8	16.1	16.2	15.2	15.4	19.5	14.4	13.7
ND07-3947	16.7	16.1	17.5	17.8	16.9	18.5	15.3	15.1
ND08-9127	15.4	14.8	15.2	14.8	14.8	19.0	15.0	13.9
ND08-9141	15.3	14.0	16.0	15.9	14.1	18.9	13.9	14.0
ND08-9273	13.5	11.8	14.7	15.1	12.6	15.9	12.0	12.1
ND09-3674	17.1	16.1	16.5	18.7	17.5	20.8	14.9	15.0
ND09-4027	14.9	13.3	13.1	15.3	13.1	19.2	14.6	15.8
ND09-4322	17.0	17.0	17.1	14.5	16.7	22.2	16.3	15.3
ND09-5526	15.5	15.4	15.9	14.0	15.8	18.8	14.4	14.3
ND09-5708	13.8	13.5	13.9	13.0	13.0	17.3	13.3	12.7
ND09-5757	14.2	12.6	14.9	14.4	14.9	17.3	13.0	12.3
ND09-5762	13.7	12.3	14.0	14.6	13.4	16.3	13.1	12.5
ND09-5764	15.5	14.6	15.0	15.2	16.5	19.1	14.5	13.7
OAC 10-06C	16.6	16.4	15.6	17.2	15.6	20.7	15.8	14.8
OAC 10-20C	15.4	15.6	14.3	16.0	16.0	19.1	13.6	13.2
OAC 10-24C	17.1	17.5	17.7	15.8	17.6	20.9	15.6	14.8
SD06-393	17.1	16.3	15.1	16.4	19.4	20.8	15.4	16.0
SD06-415	16.1	15.7	15.0	15.5	16.9	19.7	14.7	15.5
SD06-418	15.4	14.7	14.7	15.0	16.4	18.6	14.3	14.3
SD06-455	15.4	13.7	13.9	14.7	17.4	19.0	14.7	14.1
SD09CV-0012	15.2	14.8	15.0	15.2	15.3	19.4	13.6	13.3
SD09CV-0030	16.4	15.0	16.1	17.2	17.4	19.5	15.6	14.1
SD09CV-0047	17.1	16.7	15.3	15.9	18.7	22.4	14.9	16.0
SD09CV-0055	18.4	18.6	17.8	14.3	20.2	24.0	17.6	16.3
SD09CV-0076	17.5	17.0	17.0	16.1	19.9	20.4	16.7	15.3
SD09CV-0133	17.4	15.7	17.3	17.1	17.4	21.9	17.5	15.1

PRELIMINARY TEST 0, 2012

PROTEIN (%)

Strain	Mean 6 Tests	Morris MN	Rosemount MN	Casselton ND	Woodstock* ONT	St. Mathieu* de-Beloeil Que.	Volga SD
Sheyenne (0)	33.2	33.4	35.3	28.1	37.8	31.9	32.5
MN1410 (I)	34.5	35.6	36.3	28.8	37.5	33.5	35.0
Surge (L)	34.9	35.4	37.1	29.4	37.3	35.0	35.0
MN0095 (E)	34.2	34.0	36.7	29.6	37.9	33.8	33.3
M06-235009	36.6	37.8	38.6	31.9	39.3	35.4	36.4
M06-247018	36.6	37.7	36.7	32.5	40.4	36.5	35.7
M06-337010	33.8	34.1	36.2	28.6	37.1	32.6	34.0
M06-356031	34.1	35.1	36.2	28.6	36.8	32.9	34.7
M06-358171	35.1	35.5	36.3	29.3	38.5	34.4	36.5
M06-358188	34.4	34.1	37.8	28.2	37.4	33.8	34.8
M06-361002	35.6	35.7	37.9	32.9	37.9	33.7	35.7
M06-361006	34.8	35.4	37.4	31.0	37.4	33.1	34.8
M06-380029	34.5	34.3	35.4	32.8	37.3	33.0	34.0
M06-381085	34.9	35.1	36.8	30.9	37.9	33.8	35.1
ND06-4642	36.8	38.3	38.8	32.0	39.2	36.9	35.5
ND07-3947	36.5	36.0	38.2	33.9	39.8	35.1	36.2
ND08-9127	32.4	32.5	34.5	27.6	35.7	31.2	32.9
ND08-9141	33.2	31.4	35.1	29.7	36.9	32.5	33.3
ND08-9273	34.0	33.9	38.2	26.9	37.6	33.9	33.5
ND09-3674	33.6	33.3	35.7	28.6	37.8	33.2	33.1
ND09-4027	33.1	33.0	36.3	26.5	37.1	32.3	33.6
ND09-4322	35.8	34.8	38.0	30.3	40.2	35.9	35.4
ND09-5526	33.7	33.1	35.5	30.4	37.3	32.3	33.7
ND09-5708	33.1	32.8	35.1	27.7	37.5	32.9	32.9
ND09-5757	34.1	38.3	34.6	28.6	37.1	32.8	33.1
ND09-5762	33.6	33.4	35.3	28.3	37.0	33.8	33.6
ND09-5764	32.2	32.2	34.1	27.4	35.8	31.0	32.7
OAC 10-06C	35.0	35.3	35.7	30.7	38.5	34.6	35.1
OAC 10-20C	34.7	34.8	36.1	30.5	38.1	33.8	35.1
OAC 10-24C	33.5	33.2	36.1	28.1	36.6	32.7	34.0
SD06-393	33.3	34.7	35.6	26.2	36.9	32.3	33.9
SD06-415	33.4	34.5	35.1	28.5	36.3	32.6	33.4
SD06-418	34.3	35.5	35.8	29.9	37.0	32.7	34.6
SD06-455	34.6	36.1	37.1	28.8	37.5	33.8	34.3
SD09CV-0012	34.7	35.3	35.1	30.4	38.6	34.0	34.9
SD09CV-0030	36.7	39.5	38.3	30.0	39.9	35.7	36.8
SD09CV-0047	37.1	37.5	39.1	31.2	40.9	37.1	36.5
SD09CV-0055	36.5	38.8	38.5	28.7	39.2	37.0	36.8
SD09CV-0076	38.1	41.8	41.9	24.7	42.3	38.5	39.3
SD09CV-0133	35.0	35.3	36.2	31.2	37.8	34.4	35.3

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

PRELIMINARY TEST 0, 2012

OIL (%)

Strain	Mean 6 Tests	Morris MN	Rosemount MN	Casselton ND	Woodstock* ONT	St. Mathieu* de-Beloeil Que.	Volga SD
Sheyenne (0)	18.7	19.3	17.8	18.4	18.5	18.8	19.6
MN1410 (I)	18.6	18.5	18.6	18.6	18.7	18.8	18.7
Surge (L)	18.6	19.2	18.7	16.7	18.6	18.4	19.9
MN0095 (E)	18.8	19.1	18.4	18.4	18.3	18.9	19.6
M06-235009	17.9	18.2	17.8	16.5	18.3	18.0	18.8
M06-247018	18.2	18.5	18.0	17.5	17.7	18.1	19.1
M06-337010	19.9	20.1	19.8	19.4	19.1	20.2	20.9
M06-356031	17.8	17.2	17.4	17.5	17.8	18.3	18.3
M06-358171	17.6	17.9	17.8	16.8	18.1	17.7	17.4
M06-358188	18.8	19.4	18.0	18.6	18.6	18.9	19.0
M06-361002	17.8	17.2	17.9	16.6	18.4	18.5	18.3
M06-361006	18.8	19.4	18.5	17.7	18.9	18.8	19.4
M06-380029	18.1	18.8	17.7	15.9	18.4	18.5	19.0
M06-381085	17.7	18.3	17.9	15.6	18.3	18.4	18.0
ND06-4642	16.9	16.5	16.1	16.9	16.5	16.8	18.7
ND07-3947	18.1	19.3	18.0	16.1	18.0	18.2	19.0
ND08-9127	19.1	19.6	18.7	17.9	19.3	19.2	19.6
ND08-9141	18.9	20.2	18.4	17.9	19.1	18.3	19.4
ND08-9273	19.2	19.3	18.6	18.7	18.9	19.1	20.4
ND09-3674	19.3	20.2	19.0	19.1	18.6	19.1	20.0
ND09-4027	19.5	20.4	18.4	19.5	18.7	19.7	20.2
ND09-4322	18.3	19.7	17.5	17.9	17.6	17.7	19.6
ND09-5526	19.5	20.5	19.2	17.3	19.3	19.7	20.9
ND09-5708	18.9	19.6	18.7	18.2	18.6	18.5	19.8
ND09-5757	18.3	16.5	18.4	17.3	19.1	18.9	19.7
ND09-5762	18.4	19.0	18.2	17.6	18.2	18.1	19.3
ND09-5764	19.1	19.2	18.5	18.3	19.6	19.0	19.8
OAC 10-06C	19.7	20.2	19.6	19.6	19.1	19.3	20.3
OAC 10-20C	18.9	19.3	18.3	18.5	18.6	18.8	19.7
OAC 10-24C	19.2	19.8	18.8	19.0	19.2	19.2	18.9
SD06-393	19.5	19.2	19.2	19.3	19.8	19.7	19.8
SD06-415	20.0	20.2	19.8	19.8	19.7	20.2	20.5
SD06-418	18.7	18.6	18.5	17.5	19.4	19.0	19.3
SD06-455	18.2	18.6	17.8	16.1	19.1	18.7	19.2
SD09CV-0012	18.9	18.6	19.2	17.9	19.0	18.9	20.0
SD09CV-0030	17.5	17.1	16.9	17.7	17.8	17.7	17.9
SD09CV-0047	17.8	18.2	17.2	17.2	17.7	17.9	18.7
SD09CV-0055	17.8	17.3	17.2	18.6	17.7	17.4	18.4
SD09CV-0076	17.1	15.8	16.0	19.5	16.7	16.8	17.7
SD09CV-0133	18.9	19.7	18.3	18.1	19.0	18.7	19.4

Uniform Test I, 2012

Ent.	Strain	Parentage	Seed Source	Previous Testing	Gen. Comp.	Unique Traits
1	MN1410 (I)	Unknown	Orf	7	F5	
2.	IA1022 (SCN)	Dairyland 98822 x A00-711024	Fehr	6	F5	SCN
3.	Sheyenne (0)	Pioneer 9071 x A96-492041	Helms	5	F4	Rps1-c
4.	A09-753035	IA2078 x Syngenta WW221162	Fehr			1% linolenic
5.	A09-754003	IA3042 x A04-543043	Fehr			1% linolenic, SCN
6.	M03-165068	NE1900 x MN0304	Orf	2	F5	Rps1k
7.	M05-307064	M00-516048 x M02-466298	Orf	PTI	F5	Rps1k, 2% Linolenic Acid
8.	SD08CV-1041	M96-355009 x M97-357138	Jiang	PTI	F5	
9.	SD08CV-1043	M96-355009 x M97-357138	Jiang	PTI	F5	
10.	U09-105007	OAC 05-21 x U03-300134	Graef	PTI	F5	Rps, Dt
11.	U09-129007	U01-390489 x U03-200317	Graef	PTI	F5	SCN,Rps, Dt
12.	U09-210042	U01-190311 x U03-200317	Graef	PTI	F5	Rps
13.	U09-210051	U01-190311 x U03-200317	Graef	PTI	F5	Rps
14.	U09-211070	U01-190311 x U03-300134	Graef	PTI	F5	Rps

UNIFORM TEST I, 2012

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	Chlorosis Score Humboldt IA	Chlorosis Score Danvers MN	Shattering Score Manhattan KS	Green Stem Score Wanatah IN
MN1410 (I)	WGBIYBfI	4.0	2.6	1.0	1.0
IA1022 (SCN)	PGTSYYI	3.4	2.5	1.0	1.0
Sheyenne (0)	PGBIYYI	2.9	2.1	1.0	1.0
A09-753035	P+WT+LtBDYBlI	3.4	2.0	1.0	1.0
A09-754003	PTBDYYI	3.5	2.3	1.0	1.0
M03-165068	WGTDYYI	2.8	2.4	1.0	1.0
M05-307064	PTBDYBlI	3.3	3.1	1.0	1.0
SD08CV-1041	WGBDYBf+YI	3.3	1.1	1.0	1.0
SD08CV-1043	PGBDYIbI	3.1	1.9	1.0	1.0
U09-105007	PLtBDYLbrD	3.5	2.4	1.0	1.0
U09-129007	WGBDYYD	4.3	1.9	1.0	1.0
U09-210042	PLt+GBDYYI	3.8	2.5	1.0	1.0
U09-210051	PGBDYIbI	3.1	3.8	1.0	1.0
U09-211070	PGBDYYI	3.5	2.9	1.0	1.0

UNIFORM TEST I, 2012

REGIONAL SUMMARY

Strain	Yield 12 bu/a	Rank 12 No.	Maturity 14 Date	Lodging 12 Score	Plant Height 12 In.	Seed Quality 9 Score	Seed Size 14 g/100	Composition Protein 7 %	Composition Oil 7 %
No. of Tests									
MN1410 (I)	52.2	8	9/7	1.2	34	1.9	15.6	35.5	19.1
IA1022 (SCN)	57.3	1	5.9	1.5	35	1.6	15.1	33.0	20.0
Sheyenne (0)	45.8	14	-4.7	1.3	33	2.1	14.8	34.2	19.2
A09-753035	57.1	2	6.6	1.2	32	1.5	14.3	35.9	18.6
A09-754003	55.8	3	4.7	1.2	29	1.8	14.7	36.0	18.5
M03-165068	48.0	12	-1.7	1.5	30	1.6	14.0	34.9	19.4
M05-307064	47.5	13	-2.1	1.3	32	2.2	13.9	36.5	19.3
SD08CV-1041	50.2	11	-0.5	1.3	32	2.5	14.7	35.2	19.0
SD08CV-1043	52.9	4	1.1	1.3	31	2.4	14.7	34.7	19.2
U09-105007	52.8	6	4.4	1.1	29	1.5	14.1	33.3	19.7
U09-129007	52.3	7	7.2	1.2	28	1.9	15.2	34.0	19.6
U09-210042	51.9	9	2.4	1.2	32	1.8	13.1	33.8	19.0
U09-210051	52.9	4	1.4	1.1	32	1.6	13.1	35.0	18.6
U09-211070	51.1	10	2.0	1.2	31	1.8	14.4	34.4	19.0

114.8 Days After Planting

UNIFORM TEST I, 2012

2011-2012 2-YEAR MEAN

Strain	Yield 27 bu/a	Rank 27 No.	Maturity 27 Date	Lodging 25 Score	Plant Height 25 In.	Seed Quality 20 Score	Seed Size 29 g/100	Composition Protein 14 %	Composition Oil 14 %
No. of Tests									
MN1410 (I)	55.0	2	9/13	1.5	34	1.8	15.9	35.1	19.0
IA1022 (SCN)	57.9	1	5.9	1.8	34	1.7	14.9	32.5	19.9
Sheyenne (0)	46.8	4	-5.6	1.4	32	2.2	15.3	34.1	19.2
M03-165068	53.2	3	-1.0	1.7	32	1.7	14.2	34.5	19.2

119.0 Days After Planting

UNIFORM TEST I, 2012

YIELD (bu/a)

Strain	Mean 12 Tests	Charles City IA	Eldora IA	Kanawha IA	Lafayette* IN	Wanatah IN	Ingham* County MI	Saginaw* County MI	Lamberton MN
MN1410 (I)	52.2	49.8	50.9	40.4	15.4	59.2	17.6	43.5	33.6
IA1022 (SCN)	57.3	66.2	54.7	50.1	38.2	66.0	31.7	50.4	39.5
Sheyenne (0)	45.8	42.3	36.5	31.0	23.9	53.8	11.7	33.3	41.4
A09-753035	57.1	57.4	49.5	39.0	37.0	68.2	24.8	36.5	39.4
A09-754003	55.8	63.2	53.1	37.0	35.8	66.9	15.6	38.9	41.6
M03-165068	48.0	44.2	38.5	35.9	27.0	56.7	22.4	39.5	41.2
M05-307064	47.5	48.5	40.5	29.6	14.4	50.6	17.4	34.6	38.7
SD08CV-1041	50.2	39.4	51.0	35.2	19.8	59.0	16.6	38.6	37.5
SD08CV-1043	52.9	56.7	52.3	39.5	15.1	58.1	16.2	36.7	39.3
U09-105007	52.8	34.4	45.9	44.8	34.9	57.9	21.1	42.3	40.8
U09-129007	52.3	47.7	48.6	38.5	37.9	59.4	6.1	36.5	36.2
U09-210042	51.9	49.5	48.4	35.6	25.7	61.8	29.8	47.6	37.7
U09-210051	52.9	53.7	48.1	34.1	26.6	59.8	6.9	40.1	46.6
U09-211070	51.1	46.8	46.6	34.3	37.0	58.9	13.0	37.4	34.1
Location Mean		50.0	47.5	37.5	27.8	59.7	17.9	39.7	39.1
C.V. (%)		12.7	14.2	12.9	16.4	6.7	35.2	23.9	13.4
L.S.D. (5%)		13.8	14.6	10.4	6.8	6.7	16.7	25.2	8.7
Row Sp. (In.)		27	27	30	30	30	15	15	30
Rows/Plot		4	4	4	4	4	6	6	4
Reps		2	2	2	3	3	2	2	3

*Data not included in mean.

UNIFORM TEST I, 2012

YIELD RANK

Strain	Yield Rank	Charles City IA	Eldora IA	Kanawha IA	Lafayette IN	Wanatah IN	Ingham County MI	Saginaw County MI	Lamberton MN
MN1410 (I)	8	6	5	3	12	7	6	3	14
IA1022 (SCN)	1	1	1	1	1	3	1	1	6
Sheyenne (0)	14	12	14	13	10	13	12	14	3
A09-753035	2	3	6	5	3	1	3	11	7
A09-754003	3	2	2	7	5	2	10	7	2
M03-165068	12	11	13	8	7	12	4	6	4
M05-307064	13	8	12	14	14	14	7	13	9
SD08CV-1041	11	13	4	10	11	8	8	8	11
SD08CV-1043	4	4	3	4	13	10	9	10	8
U09-105007	6	14	11	2	6	11	5	4	5
U09-129007	7	9	7	6	2	6	14	12	12
U09-210042	9	7	8	9	9	4	2	2	10
U09-210051	4	5	9	12	8	5	13	5	1
U09-211070	10	10	10	11	3	9	11	9	13

UNIFORM TEST I, 2012

YIELD (bu/a)

Strain	Waseca MN	Beemer NE	Cotesfield NE	Phillips* NE	Ridgetown ONT	St. Hyacinthe Que.	Volga SD	Watertown SD
MN1410 (I)	60.7	40.9	88.5	54.8	67.7	65.7	39.9	29.5
IA1022 (SCN)	58.0	39.5	93.8	59.5	71.3	75.1	41.7	31.6
Sheyenne (0)	56.9	24.1	71.9	32.3	63.3	51.6	43.8	33.3
A09-753035	61.4	42.2	96.3	48.0	80.7	74.6	44.8	32.3
A09-754003	66.1	41.1	81.6	55.4	73.3	68.3	44.7	32.7
M03-165068	58.1	30.6	72.9	49.1	60.3	64.9	40.9	32.4
M05-307064	58.6	33.3	82.3	39.5	66.3	56.1	37.7	28.3
SD08CV-1041	59.3	32.1	85.7	59.4	67.0	68.7	38.3	29.3
SD08CV-1043	51.2	38.7	88.8	62.5	68.7	68.7	43.5	30.0
U09-105007	48.8	43.4	90.8	51.2	79.3	69.6	43.6	34.4
U09-129007	55.3	36.6	85.0	45.5	72.0	71.1	45.3	31.6
U09-210042	52.7	27.2	87.7	61.0	64.7	76.3	43.0	38.0
U09-210051	53.9	36.6	82.3	33.3	73.0	67.3	44.0	34.9
U09-211070	53.0	38.5	87.8	42.9	66.7	68.8	40.5	37.5
Location Mean	56.7	36.0	85.4	49.6	69.6	67.6	42.3	32.5
C.V. (%)	7.7	5.3	7.2	30.8	9.0	10.9	6.2	9.6
L.S.D. (5%)	7.3	4.7	15.2	37.7	8.8		3.7	5.3
Row Sp. (In.)	30	30	30	30	17	14	30	30
Rows/Plot	4	4	4	4	5	4	4	4
Reps	3	2	2	2	3	3	3	3

UNIFORM TEST I, 2012

YIELD RANK

Strain	Waseca MN	Beemer NE	Cotesfield NE	Phillips NE	Ridgetown ONT	St. Hyacinthe Que.	Volga SD	Watertown SD
MN1410 (I)	3	4	5	6	8	11	12	12
IA1022 (SCN)	7	5	2	3	6	2	9	9
Sheyenne (0)	8	14	14	14	13	14	5	5
A09-753035	2	2	1	9	1	3	2	8
A09-754003	1	3	12	5	3	9	3	6
M03-165068	6	12	13	8	14	12	10	7
M05-307064	5	10	11	12	11	13	14	14
SD08CV-1041	4	11	8	4	9	7	13	13
SD08CV-1043	13	6	4	1	7	7	7	11
U09-105007	14	1	3	7	2	5	6	4
U09-129007	9	9	9	10	5	4	1	9
U09-210042	12	13	7	2	12	1	8	1
U09-210051	10	8	10	13	4	10	4	3
U09-211070	11	7	6	11	10	6	11	2

UNIFORM TEST I, 2012

MATURITY (date)

Strain	Mean 14 Tests	Charles City IA	Eldora IA	Kanawha IA	Lafayette IN	Wanatah IN	Ingham County MI	Saginaw County MI	Lamberton MN
MN1410 (I)	9/7		8/31	9/5	8/24	9/4	8/31	9/11	9/12
IA1022 (SCN)	5.9		6	7	12	9	10	4	8
Sheyenne (0)	-4.7		-7	-5	-4	-3	-3	-2	-1
A09-753035	6.6		7	5	12	10	14	5	7
A09-754003	4.7		5	5	11	8	8	3	4
M03-165068	-1.7		-3	-2	2	1	3	1	-1
M05-307064	-2.1		-2	-2	-4	-2	1	1	1
SD08CV-1041	-0.5		1	0	1	3	1	0	1
SD08CV-1043	1.1		2	2	5	4	5	2	0
U09-105007	4.4		6	5	13	8	8	5	3
U09-129007	7.2		6	8	17	9	11	5	6
U09-210042	2.4		1	4	6	6	12	2	3
U09-210051	1.4		1	1	4	3	6	0	1
U09-211070	2.0		2	5	11	6	9	0	3
Date Planted	5/15		5/8	5/15	5/14	5/17	5/10	5/18	5/17
Days to Mature	115		115	113	102	110	113	116	118

UNIFORM TEST I, 2012

LODGING (score)

Strain	Mean 12 Tests	Charles City IA	Eldora IA	Kanawha IA	Lafayette IN	Wanatah IN	Ingham County MI	Saginaw County MI	Lamberton MN
MN1410 (I)	1.2	1.5	2.0	1.0	1.0	1.5	1.0	1.0	1.0
IA1022 (SCN)	1.5	2.5	2.3	1.5	1.0	1.8	1.0	1.0	2.3
Sheyenne (0)	1.3	2.0	2.0	1.0	1.0	1.3	1.0	1.0	2.0
A09-753035	1.2	1.5	2.0	1.0	1.0	1.2	1.0	1.0	1.0
A09-754003	1.2	1.5	1.8	1.3	1.0	1.0	1.0	1.0	1.0
M03-165068	1.5	2.0	2.5	1.5	1.0	2.0	1.0	1.0	2.0
M05-307064	1.3	1.8	2.0	1.5	1.0	1.5	1.0	1.0	1.7
SD08CV-1041	1.3	1.5	2.8	1.0	1.0	1.7	1.0	1.0	2.0
SD08CV-1043	1.3	1.5	2.3	1.5	1.0	1.3	1.0	1.0	1.7
U09-105007	1.1	1.0	1.5	1.3	1.0	1.0	1.0	1.0	1.0
U09-129007	1.2	1.3	1.5	1.3	1.0	1.0	1.0	1.0	1.0
U09-210042	1.2	1.8	2.0	1.0	1.0	1.2	1.0	1.0	1.7
U09-210051	1.1	1.3	1.8	1.0	1.0	1.2	1.0	1.0	1.0
U09-211070	1.2	1.5	2.0	1.0	1.0	1.0	1.0	1.0	1.3

UNIFORM TEST I, 2012

MATURITY (date)

Strain	Waseca MN	Beemer NE	Cotesfield NE	Phillips NE	Ridgetown ONT	St. Hyacinthe Que.	Volga SD	Watertown SD
MN1410 (I)	9/11	8/31	9/13		9/20	9/14	9/5	9/12
IA1022 (SCN)	2	2	3		8	2	4	6
Sheyenne (0)	-3	-8	-6		-6	-9	-4	-5
A09-753035	6	2	2		7	6	5	6
A09-754003	4	1	-1		6	1	5	6
M03-165068	-3	-6	-5		-1	-5	-3	-3
M05-307064	-3	-4	-3		-1	-3	-4	-5
SD08CV-1041	1	-6	-3		1	0	-4	-3
SD08CV-1043	-1	-1	1		1	3	-3	-4
U09-105007	-1	4	2		1	-1	4	4
U09-129007	4	4	6		9	7	5	5
U09-210042	1	-2	-4		1	0	1	3
U09-210051	0	3	7		-1	0	2	-6
U09-211070	2	-16	-4		2	1	4	4
Date Planted	5/15	5/9	5/17	5/8	5/31	5/15	5/14	5/22
Days to Mature	119	114	119		112	122	114	113

UNIFORM TEST I, 2012

LODGING (score)

Strain	Waseca MN	Beemer NE	Cotesfield NE	Phillips NE	Ridgetown ONT	St. Hyacinthe Que.	Volga SD	Watertown SD
MN1410 (I)				1.0	1.3		1.0	1.0
IA1022 (SCN)				1.0	2.0		1.0	1.0
Sheyenne (0)				1.0	1.0		1.0	1.0
A09-753035				1.0	1.3		1.0	1.0
A09-754003				1.0	1.3		1.0	1.0
M03-165068				2.0	1.0		1.0	1.0
M05-307064				1.0	1.0		1.0	1.0
SD08CV-1041				1.0	1.0		1.0	1.0
SD08CV-1043				1.0	1.0		1.0	1.0
U09-105007				1.0	1.0		1.0	1.0
U09-129007				1.0	1.0		2.0	1.0
U09-210042				1.0	1.0		1.0	1.0
U09-210051				1.0	1.0		1.0	1.0
U09-211070				1.0	1.0		1.0	1.0

UNIFORM TEST I, 2012

PLANT HEIGHT (inches)

Strain	Mean 12 Tests	Charles City IA	Eldora IA	Kanawha IA	Lafayette IN	Wanatah IN	Ingham County MI	Saginaw County MI	Lamberton MN
MN1410 (I)	34	35	35	29	32	37	26	31	36
IA1022 (SCN)	35	35	35	31	36	36	27	32	42
Sheyenne (0)	33	33	34	26	33	35	25	24	42
A09-753035	32	31	36	30	34	36	23	29	36
A09-754003	29	31	32	26	28	33	22	23	30
M03-165068	30	32	30	26	30	31	23	26	36
M05-307064	32	32	30	27	32	31	25	27	38
SD08CV-1041	32	30	33	29	31	32	22	29	40
SD08CV-1043	31	32	34	26	31	31	20	27	39
U09-105007	29	24	30	26	29	30	24	26	33
U09-129007	28	29	30	25	29	32	18	24	31
U09-210042	32	30	33	27	31	35	28	26	37
U09-210051	32	32	32	30	33	34	18	28	37
U09-211070	31	33	33	28	33	34	23	28	35

UNIFORM TEST I, 2012

SEED QUALITY (score)

Strain	Mean 9 Tests	Charles City IA	Eldora IA	Kanawha IA	Lafayette IN	Wanatah IN	Ingham County MI	Saginaw County MI	Lamberton MN
MN1410 (I)	1.9			2.0	3.0	1.5			2.0
IA1022 (SCN)	1.6			1.0	1.5	1.0			2.0
Sheyenne (0)	2.1			2.0	2.5	1.5			3.0
A09-753035	1.5			2.0	1.0	1.0			1.0
A09-754003	1.8			2.0	1.5	1.5			3.0
M03-165068	1.6			1.0	2.5	1.5			2.0
M05-307064	2.2			3.0	3.5	1.0			3.0
SD08CV-1041	2.5			3.0	5.0	1.5			3.0
SD08CV-1043	2.4			3.0	4.5	1.5			2.0
U09-105007	1.5			3.0	1.5	1.0			1.0
U09-129007	1.9			3.0	2.0	1.5			2.0
U09-210042	1.8			2.0	1.5	1.0			3.0
U09-210051	1.6			2.0	2.0	1.0			1.0
U09-211070	1.8			2.0	1.5	1.0			2.0

UNIFORM TEST I, 2012

PLANT HEIGHT (inches)

Strain	Waseca MN	Beemer NE	Cotesfield NE	Phillips NE	Ridgetown ONT	St. Hyacinthe Que.	Volga SD	Watertown SD
MN1410 (I)				32	38		39	37
IA1022 (SCN)				36	39		35	37
Sheyenne (0)				33	30		40	39
A09-753035				38	31		30	27
A09-754003				35	31		31	25
M03-165068				35	33		33	28
M05-307064				34	33		35	35
SD08CV-1041				36	32		38	32
SD08CV-1043				39	33		35	29
U09-105007				28	31		29	33
U09-129007				31	28		27	28
U09-210042				36	34		30	31
U09-210051				44	33		32	29
U09-211070				34	33		31	32

UNIFORM TEST I, 2012

SEED QUALITY (score)

Strain	Waseca MN	Beemer NE	Cotesfield NE	Phillips NE	Ridgetown ONT	St. Hyacinthe Que.	Volga SD	Watertown SD
MN1410 (I)	1.0				1.7	3.0	2.0	1.0
IA1022 (SCN)	1.0				2.0	3.7	1.0	1.0
Sheyenne (0)					2.0	3.7	1.0	1.0
A09-753035	1.0				1.0	3.3	2.0	1.0
A09-754003	2.0				1.0	2.3	2.0	1.0
M03-165068	1.0				1.3	2.3	2.0	1.0
M05-307064	2.0				1.7	3.0	2.0	1.0
SD08CV-1041	2.0				1.0	3.0	2.0	2.0
SD08CV-1043	2.0				1.0	3.3	2.0	2.0
U09-105007	1.0				1.0	3.0	1.0	1.0
U09-129007	1.0				1.0	2.7	2.0	2.0
U09-210042	1.0				1.0	2.3	2.0	2.0
U09-210051	2.0				1.0	2.7	2.0	1.0
U09-211070	2.0				1.0	2.7	2.0	2.0

UNIFORM TEST I, 2012

SEED SIZE (g/100)

Strain	Mean 14 Tests	Charles City IA	Eldora IA	Kanawha IA	Lafayette IN	Wanatah IN	Ingham County MI	Saginaw County MI	Lamberton MN
MN1410 (I)	15.6	17.5	15.3	15.2	12.7	14.9	11.9	14.9	16.3
IA1022 (SCN)	15.1	17.5	14.7	14.2	13.4	14.5	14.0	16.5	15.5
Sheyenne (0)	14.8	15.6	14.1	13.7	13.0	17.1	11.0	12.3	17.6
A09-753035	14.3	16.3	13.8	13.5	13.3	14.2	12.2	15.0	13.9
A09-754003	14.7	17.0	14.5	14.2	13.4	14.9	12.0	12.0	14.7
M03-165068	14.0	14.9	12.6	13.4	11.8	13.6	12.6	13.5	14.6
M05-307064	13.9	15.5	13.9	12.2	10.3	13.2	11.1	14.0	16.4
SD08CV-1041	14.7	15.4	14.4	14.7	10.7	14.3	11.9	14.8	16.8
SD08CV-1043	14.7	16.6	14.1	13.8	11.3	13.8	12.2	14.0	15.1
U09-105007	14.1	14.2	13.0	13.4	12.4	12.8	12.4	13.5	14.5
U09-129007	15.2	16.5	14.9	14.7	15.1	15.7	11.1	12.3	15.5
U09-210042	13.1	14.0	12.3	12.3	11.2	12.2	12.3	13.5	12.7
U09-210051	13.1	14.6	13.3	11.6	10.9	12.1	10.3	14.3	12.2
U09-211070	14.4	15.2	13.8	13.9	13.5	12.8	11.5	14.3	13.7

UNIFORM TEST I, 2012

SEED SIZE (g/100)

Strain	Waseca MN	Beemer NE	Cotesfield NE	Phillips NE	Ridgetown ONT	St. Hyacinthe Que.	Volga SD	Watertown SD
MN1410 (I)	15.7		19.3	17.4	16.8		14.5	15.5
IA1022 (SCN)	13.5		17.0	15.7	17.1		13.4	14.3
Sheyenne (0)			17.5	17.8	16.0		13.2	13.5
A09-753035	14.1		16.1	14.6	16.3		12.5	14.5
A09-754003	15.7		16.3	15.7	17.5		12.8	15.2
M03-165068	14.3		17.4	16.3	14.8		12.5	13.8
M05-307064	14.3		16.8	16.5	15.0		12.9	12.8
SD08CV-1041	15.9		14.4	17.8	17.6		13.3	13.6
SD08CV-1043	14.6		18.6	16.6	16.0		13.8	14.8
U09-105007	13.4		15.5	16.7	17.5		13.0	14.8
U09-129007	14.8		19.3	16.8	17.7		13.5	14.6
U09-210042	12.4		15.6	15.5	14.6		11.9	12.6
U09-210051	12.8		17.6	17.2	14.5		11.5	11.3
U09-211070	14.6		17.4	17.4	15.6		13.5	14.0

UNIFORM TEST I, 2012

PROTEIN (%)

Strain	Mean 7 Tests	Charles City IA	Kanawha IA	Wanatah IN	Lamberton MN	Waseca MN	Ridgetown* ONT	Volga SD
MN1410 (I)	35.5	35.8	35.1	36.5	35.8	34.3	35.5	35.2
IA1022 (SCN)	33.0	33.5	31.5	34.0	33.1	31.7	34.5	33.0
Sheyenne (0)	34.2	33.5	33.3	35.9	35.0	33.1	35.7	33.3
A09-753035	35.9	36.4	35.6	36.3	35.2	34.6	37.5	35.7
A09-754003	36.0	36.3	35.7	36.8	35.6	33.8	38.0	36.0
M03-165068	34.9	34.8	35.2	35.6	35.5	34.2	34.4	34.7
M05-307064	36.5	36.3	35.3	37.8	37.4	35.2	37.4	36.1
SD08CV-1041	35.2	34.5	34.7	35.9	36.1	35.2	35.8	34.2
SD08CV-1043	34.7	34.2	34.0	35.3	35.3	33.6	35.6	35.0
U09-105007	33.3	32.6	32.6	34.1	32.9	32.7	35.0	33.6
U09-129007	34.0	33.6	33.1	35.2	32.7	33.7	35.9	33.7
U09-210042	33.8	33.3	34.0	34.5	32.2	33.4	34.5	34.6
U09-210051	35.0	34.6	35.0	36.1	33.3	34.3	36.6	35.0
U09-211070	34.4	34.2	34.4	35.5	32.4	34.0	35.6	34.4

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

UNIFORM TEST I, 2012

OIL (%)

Strain	Mean 7 Tests	Charles City IA	Kanawha IA	Wanatah IN	Lamberton MN	Waseca MN	Ridgetown* ONT	Volga SD
MN1410 (I)	19.1	19.5	19.9	19.0	18.4	18.6	19.2	19.2
IA1022 (SCN)	20.0	20.5	21.6	20.1	19.3	19.3	19.5	19.5
Sheyenne (0)	19.2	19.5	20.2	18.9	19.3	18.4	18.3	19.6
A09-753035	18.6	19.1	19.7	18.5	18.6	18.0	17.7	18.3
A09-754003	18.5	18.9	19.6	18.4	18.7	18.3	17.6	18.1
M03-165068	19.4	19.9	19.9	19.4	19.5	18.3	19.8	19.1
M05-307064	19.3	19.5	20.4	19.4	18.8	18.8	18.4	19.4
SD08CV-1041	19.0	19.7	20.0	19.0	17.9	18.2	18.8	19.1
SD08CV-1043	19.2	20.0	20.0	19.5	18.6	18.3	19.1	19.3
U09-105007	19.7	20.6	20.7	19.8	20.1	18.8	19.2	18.9
U09-129007	19.6	20.2	20.7	19.3	20.1	19.0	18.7	19.4
U09-210042	19.0	19.4	19.7	18.8	19.9	18.1	19.1	18.2
U09-210051	18.6	19.3	19.2	18.3	19.5	18.1	17.7	18.1
U09-211070	19.0	19.5	19.8	18.7	20.1	18.2	18.2	18.6

Preliminary Test I, 2012

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.	AR11-114002	AR04-874024 x Soygenetics F35170C	Cianzio	F4	BSR
5.	AR11-114020	AR06-264007 x Soygenetics F35170C	Cianzio	F4	IDC
6.	AR11-114021	AR05-250103 x Soygenetics F36150C	Cianzio	F4	IDC
7.	AR11-114034	AR05-250103 x Syngenta 04KL108370	Cianzio	F4	IDC
8.	AR11-114041	AR05-250103 x Syngenta 04KL108370	Cianzio	F4	IDC
9.	AR11-114047	Syngenta 04RM820808 x AR05-250110	Cianzio	F4	IDC
10.	AR11-114052	Soygenetics F36150C x AR05-250110	Cianzio	F4	IDC
11.	AR11-114057	AR03-163008 x Soygenetics F36150C	Cianzio	F4	SDS
12.	AR11-114059	AR06-364046 x AR05-150079	Cianzio	F4	SDS
13.	AR11-114062	AR06-164033 x AR05-150079	Cianzio	F4	SDS
14.	AR11-114063	Syngenta 04KL108370 x AR03-361062	Cianzio	F4	SDS
15.	AR11-114066	AR03-163008 x Syngenta 05KE307696	Cianzio	F4	SDS
16.	M06-235003	M99-286149 x MN1606SO	Orf	F5	SDS
17.	M06-294048	M98-252008 x M00-326044	Orf	F5	SSR
18.	M06-310036	ND01-3901 x MN1005	Orf	F5	
19.	M06-310039	ND01-3901 x MN1005	Orf	F5	
20.	M06-337011	PARKER x ND02-971	Orf	F5	OIL
21.	M06-337041	PARKER x ND02-971	Orf	F5	OIL
22.	M06-355049	PI437285 x M94-275024	Orf	F5	Slow Wilting
23.	M06-382188	NE1900 x PI347550B	Orf	F5	Diversity
24.	OAC 10-32C	A03-841045 x Dundas	Rajcan	F5	
25.	OAC 10-36C	OAC Champion x Hudson	Rajcan	F5	
26.	OAC 10-38C	OAC Champion x Hudson	Rajcan	F5	
27.	OAC 10-40C	OAC 02-31 x (OAC 02-31 x N79-2077-12)	Rajcan	F5	
28.	SD09CV-1018	IA1008 x Surge	Jiang	F5	Yield
29.	SD09CV-1029	IA1008 x Surge	Jiang	F5	Yield
30.	SD09CV-1040	IA1008 x Surge	Jiang	F5	Yield
31.	SD09CV-1041	IA1008 x Surge	Jiang	F5	Yield
32.	SD09CV-1152	M98-308007 x Surge	Jiang	F5	Yield
33.	SD09CV-1515	Surge x M98-308007	Jiang	F5	Yield
34.	SD09CV-1565	Surge x SDX02FA-5-4	Jiang	F5	Yield
35.	SD09CV-1606	Surge x Loda	Jiang	F5	Yield
36.	SD09CV-1622	IA2068 x SDX98-76192	Jiang	F5	Yield
37.	SD09CV-2304	Surge x Loda	Jiang	F5	Yield
38.	U09-118017	U01-190311 x U02-242055	Graef	F4	
39.	U09-119024	U01-190311 x U03-200317	Graef	F4	
40.	U09-211051	U01-190311 x U03-300134	Graef	F4	

PRELIMINARY TEST I, 2012

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	Chlorosis Score Danvers MN	Shattering Score Manhattan KS
MN1410 (I)	WGBIYBfI	2.5	1.0
IA1022 (SCN)	PGTSYYI	2.6	1.0
Sheyenne (0)	PGBIYYI	2.4	1.0
AR11-114002	PTTDYBlI	2.6	1.0
AR11-114020	WTTDYBlI	1.8	1.0
AR11-114021	PTTDYBlI	2.0	1.0
AR11-114034	PGTDYBlI	2.5	1.0
AR11-114041	PGTDYBlI	3.0	1.0
AR11-114047	PLtBDYBlI	2.4	1.0
AR11-114052	PTTDYBlI	3.9	1.0
AR11-114057	WGTDYBfI	3.3	1.0
AR11-114059	PGTDYIbI	2.0	1.0
AR11-114062	PLtTDYBl+GI	2.9	1.0
AR11-114063	PTBDYBrI	2.9	1.0
AR11-114066	PTTDYBlI	3.0	1.0
M06-235003	WGBDYYI	1.6	2.0
M06-294048	PGBSYYI	1.9	3.0
M06-310036	PGBDYYI	2.9	1.0
M06-310039	PGBDYBfI	2.9	1.0
M06-337011	WGBDYBfI	2.9	1.0
M06-337041	PGBDYYI	2.9	2.0
M06-355049	WTBIYBlI	2.5	2.0
M06-382188	PGBIYYI	2.9	1.0
OAC 10-32C	P+WG+TBDYYI	2.3	1.0
OAC 10-36C	P+WTBDYYI	3.4	1.0
OAC 10-38C	PTBDYYI	3.1	1.0
OAC 10-40C	P+WGBDYYI	2.6	1.0
SD09CV-1018	PGBDYYI	3.5	1.0
SD09CV-1029	P+WGBDYG+BfI	3.0	1.0
SD09CV-1040	WGBDYLbfI	3.4	1.0
SD09CV-1041	P+WGBDYYI	3.5	1.0
SD09CV-1152	PGT+BDYIbI	2.3	1.0
SD09CV-1515	PGBDYIbI	2.3	1.0
SD09CV-1565	PGBDYIbI	2.3	1.0
SD09CV-1606	PGBDYIbI	2.5	1.0
SD09CV-1622	P+WGBDYIb+BfI	3.0	1.0
SD09CV-2304	PGBDYIbI	3.6	1.0
U09-118017	WGBDYYI	2.9	1.0
U09-119024	PLtBDYBrI	2.4	1.0
U09-211051	PGBDYIbI	2.5	1.0

PRELIMINARY TEST I, 2012

REGIONAL SUMMARY

No. of Tests Strain	Yield 10 bu/a	Rank 10 No.	Maturity 11 Date	Lodging 9 Score	Plant Height 8 In.	Seed Quality 8 Score	Seed Size 10 g/100	Composition Protein 5 %	 Oil 5 %
MN1410 (I)	52.3	13	9/6	1.0	36	1.7	15.5	35.7	18.9
IA1022 (SCN)	57.8	1	6.0	1.2	35	1.5	15.3	33.0	20.1
Sheyenne (0)	44.2	36	-4.6	1.2	35	2.2	15.0	33.6	19.4
AR11-114002	55.0	5	8.8	1.3	35	1.9	16.9	36.4	18.4
AR11-114020	52.5	11	6.7	1.2	34	1.3	14.8	35.3	18.7
AR11-114021	48.5	25	7.4	1.2	31	2.0	16.6	35.9	18.3
AR11-114034	52.9	10	6.5	1.2	34	1.8	15.8	35.0	18.4
AR11-114041	52.4	12	3.4	1.1	37	1.6	16.8	35.9	18.3
AR11-114047	54.9	6	7.5	1.5	35	1.8	16.1	35.6	18.5
AR11-114052	50.3	18	6.9	1.4	37	1.8	16.4	35.2	18.7
AR11-114057	55.1	4	9.8	1.2	32	1.8	17.4	34.7	18.8
AR11-114059	51.3	15	10.3	1.3	34	1.6	15.8	34.3	19.0
AR11-114062	51.0	16	12.4	1.2	37	2.2	14.4	36.2	18.0
AR11-114063	53.3	8	8.3	1.1	32	1.5	15.5	35.4	17.7
AR11-114066	48.7	24	8.5	1.9	43	1.9	16.9	35.6	18.8
M06-235003	48.1	28	-2.0	1.3	40	2.0	17.0	34.6	19.8
M06-294048	36.3	39	-3.9	1.6	32	1.7	17.6	36.3	17.6
M06-310036	47.6	29	-2.1	1.1	35	2.1	14.9	34.3	18.9
M06-310039	44.5	34	-3.3	1.1	35	1.9	13.8	34.2	19.6
M06-337011	54.4	7	1.2	1.1	36	2.1	16.7	34.9	19.6
M06-337041	40.6	38	-4.1	1.8	42	1.8	17.0	34.9	19.5
M06-355049	35.7	40	-6.0	1.3	31	2.4	12.7	37.8	17.3
M06-382188	41.7	37	2.0	2.2	41	1.6	15.7	35.8	18.2
OAC 10-32C	45.5	33	-1.0	1.4	35	1.9	15.7	35.3	18.5
OAC 10-36C	46.1	32	7.4	1.2	41	1.7	14.8	34.6	18.9
OAC 10-38C	44.5	34	0.2	1.2	40	1.6	16.9	35.9	19.1
OAC 10-40C	49.3	21	0.0	1.1	34	1.4	16.3	35.2	18.8
SD09CV-1018	49.3	21	-0.0	1.2	35	1.8	16.9	35.5	18.8
SD09CV-1029	50.2	19	-1.2	1.2	36	1.7	14.4	35.6	18.7
SD09CV-1040	51.8	14	1.8	1.1	36	1.6	16.0	35.2	18.6
SD09CV-1041	48.3	27	0.1	2.1	41	1.8	16.6	35.2	18.8
SD09CV-1152	50.4	17	-0.7	1.1	34	1.9	18.7	35.4	19.0
SD09CV-1515	48.5	25	-2.7	1.3	32	2.1	17.4	35.7	19.0
SD09CV-1565	47.3	30	-1.9	1.2	31	2.2	16.7	36.0	19.1
SD09CV-1606	46.6	31	-2.1	1.0	32	2.3	16.9	35.9	19.3
SD09CV-1622	49.2	23	0.1	1.0	34	1.9	14.5	35.1	19.2
SD09CV-2304	50.2	19	0.8	1.1	36	2.2	14.6	36.0	18.4
U09-118017	56.5	2	5.2	1.3	35	1.8	16.4	34.2	18.7
U09-119024	55.9	3	7.6	1.1	35	1.4	15.6	33.9	19.2
U09-211051	53.1	9	5.1	1.1	34	1.6	15.0	34.8	19.1

115.6 Days After Planting

PRELIMINARY TEST I, 2012

YIELD (bu/a)

Strain	Mean 10 Tests	Kanawha IA	Lafayette* IN	Ingham* County MI	Lamberton MN	Waseca MN
MN1410 (I)	52.3	41.3	9.8	17.9	32.5	58.2
IA1022 (SCN)	57.8	45.7	42.3	37.6	48.0	57.9
Sheyenne (0)	44.2	33.2	12.4	10.4	35.4	48.9
AR11-114002	55.0	42.7	28.9	22.6	49.4	51.6
AR11-114020	52.5	43.7	32.9	30.5	45.1	55.5
AR11-114021	48.5	37.4	32.3	34.7	45.8	51.1
AR11-114034	52.9	40.7	37.7	20.2	41.5	43.0
AR11-114041	52.4	45.0	33.4	35.0	35.5	56.8
AR11-114047	54.9	48.6	29.0	11.6	39.9	58.1
AR11-114052	50.3	41.1	27.1	15.6	32.5	56.2
AR11-114057	55.1	43.9	27.3	27.9	48.2	57.5
AR11-114059	51.3	43.0	30.6	30.4	32.8	53.8
AR11-114062	51.0	42.6	31.8	34.3	35.3	50.1
AR11-114063	53.3	39.8	30.0	17.7	49.3	55.4
AR11-114066	48.7	42.8	30.4	30.5	34.8	53.2
M06-235003	48.1	35.4	8.7	18.1	34.9	55.5
M06-294048	36.3	26.2	5.8	8.4	35.2	31.7
M06-310036	47.6	40.9	11.6	11.9	33.3	54.2
M06-310039	44.5	32.5	4.6	13.2	39.2	50.4
M06-337011	54.4	41.7	14.0	16.4	46.1	62.4
M06-337041	40.6	30.1	2.1	12.0	36.2	47.8
M06-355049	35.7	28.1	2.2	11.4	34.7	36.3
M06-382188	41.7	33.6	21.9	26.2	35.4	48.5
OAC 10-32C	45.5	35.4	17.7	11.6	28.5	43.7
OAC 10-36C	46.1	42.2	21.0	17.8	27.9	53.7
OAC 10-38C	44.5	37.0	18.4	13.7	38.9	48.4
OAC 10-40C	49.3	44.2	17.8	18.1	31.0	52.8
SD09CV-1018	49.3	42.1	23.5	28.7	31.6	52.3
SD09CV-1029	50.2	39.3	24.7	17.1	38.4	57.5
SD09CV-1040	51.8	40.3	25.6	24.0	35.2	55.5
SD09CV-1041	48.3	41.1	34.6	15.8	36.6	46.4
SD09CV-1152	50.4	33.2	18.4	12.3	35.5	48.8
SD09CV-1515	48.5	45.3	10.1	15.1	42.2	39.8
SD09CV-1565	47.3	37.9	15.6	8.7	40.3	43.5
SD09CV-1606	46.6	40.1	12.5	14.1	40.8	44.8
SD09CV-1622	49.2	45.1	25.4	14.1	31.9	63.7
SD09CV-2304	50.2	33.7	17.1	21.3	37.1	57.6
U09-118017	56.5	45.0	33.7	11.9	36.9	59.1
U09-119024	55.9	42.5	36.3	15.5	37.3	57.9
U09-211051	53.1	41.9	37.3	14.8	39.8	60.8
Location Mean		39.6	22.4	19.2	37.8	52.0
C.V. (%)		12.1	17.3	28.4	12.7	10.2
L.S.D. (5%)		9.7	7.9	13.2	9.7	10.7
Row Sp. (In.)		30	30	15	30	30
Rows/Plot		4	4	6	4	4
Reps		2	2	2	2	2

*Data not included in mean.

PRELIMINARY TEST I, 2012

YIELD (bu/a)

Strain	Beemer NE	Cotesfield NE	Phillips NE	Ridgetown ONT	St. Hyacinthe Que.	Volga SD	Watertown SD
MN1410 (I)	36.5	90.1	66.3	58.5	68.7	38.5	32.4
IA1022 (SCN)	29.0	95.1	67.3	84.0	76.3	42.3	32.1
Sheyenne (0)	19.0	74.8	47.8	57.5	49.8	43.9	31.4
AR11-114002	40.4	90.4	64.8	72.0	68.9	38.8	30.9
AR11-114020	39.8	85.5	44.7	74.2	64.6	40.3	31.4
AR11-114021	28.6	59.5	55.5	75.2	64.3	38.7	28.9
AR11-114034	43.2	83.5	67.4	65.5	71.1	40.7	32.8
AR11-114041	30.9	86.5	48.1	72.3	77.6	39.0	32.8
AR11-114047	34.5	88.2	61.7	70.9	73.3	41.0	32.4
AR11-114052	37.1	75.8	63.3	61.7	71.4	38.3	25.8
AR11-114057	36.5	83.1	68.7	68.1	69.4	46.2	29.2
AR11-114059	39.8	88.5	51.2	72.6	70.8	34.6	26.1
AR11-114062	41.2	77.9	59.7	77.1	65.9	35.7	24.3
AR11-114063	39.6	87.0	49.8	67.5	70.7	44.7	29.2
AR11-114066	41.0	67.6	49.6	70.0	73.2	33.8	21.4
M06-235003	29.9	84.3	55.6	58.9	60.5	38.9	27.0
M06-294048	11.0	62.3	35.1	51.2	55.8	27.4	26.6
M06-310036	28.2	78.7	56.3	65.1	47.2	42.0	30.0
M06-310039	31.6	66.0	46.5	56.6	58.8	35.1	27.8
M06-337011	37.3	84.0	67.7	59.6	71.1	41.0	32.7
M06-337041	12.2	64.4	32.6	59.9	58.4	36.5	27.6
M06-355049	21.9	55.5	35.2	42.8	38.0	36.2	28.7
M06-382188	20.2	63.7	40.3	54.5	61.8	32.4	26.5
OAC 10-32C	26.6	83.1	60.0	50.9	59.9	41.7	24.9
OAC 10-36C	38.9	63.0	57.0	62.1	60.3	33.3	22.6
OAC 10-38C	27.1	66.9	55.0	49.9	60.5	34.9	26.3
OAC 10-40C	31.0	85.3	61.0	50.8	66.2	41.7	29.3
SD09CV-1018	31.6	79.3	44.6	74.9	68.0	40.7	28.1
SD09CV-1029	39.8	79.8	57.3	59.2	58.2	40.4	32.5
SD09CV-1040	36.3	91.3	63.3	59.4	69.7	38.3	29.2
SD09CV-1041	30.6	84.7	58.5	57.4	65.2	37.1	25.6
SD09CV-1152	36.0	86.1	68.1	58.8	64.0	42.0	31.2
SD09CV-1515	32.2	78.5	58.5	55.5	56.8	48.3	27.7
SD09CV-1565	33.9	71.0	58.9	52.7	55.7	46.8	31.8
SD09CV-1606	33.5	75.2	54.2	52.0	49.2	45.7	29.9
SD09CV-1622	36.0	77.3	51.1	53.8	61.8	41.9	29.0
SD09CV-2304	29.0	82.3	58.9	70.4	64.8	40.2	27.8
U09-118017	37.3	91.8	71.6	62.5	83.2	45.7	32.3
U09-119024	42.7	86.6	67.8	69.1	77.5	42.0	35.5
U09-211051	25.9	83.2	65.4	65.0	81.4	36.4	30.9
Location Mean	32.4	78.9	56.2	62.5	64.7	39.6	29.1
C.V. (%)	12.4	13.1	17.7	6.9	14.4	10.8	8.3
L.S.D. (5%)	9.9	25.8	25.2	7.3		8.7	4.9
Row Sp. (In.)	30	30	30	17	14	30	30
Rows/Plot	4	4	4	5	4	4	4
Reps	2	2	2	2	3	2	2

PRELIMINARY TEST I, 2012

YIELD RANK

Strain	Yield Rank	Kanawha IA	Lafayette IN	Ingham County MI	Lamberton MN	Waseca MN
MN1410 (I)	13	19	35	17	34	5
IA1022 (SCN)	1	2	1	1	4	7
Sheyenne (0)	36	35	32	38	24	28
AR11-114002	5	12	15	12	1	24
AR11-114020	11	9	8	5	7	14
AR11-114021	25	29	9	3	6	25
AR11-114034	10	23	2	14	9	37
AR11-114041	12	5	7	2	22	12
AR11-114047	6	1	14	35	12	6
AR11-114052	18	20	17	23	34	13
AR11-114057	4	8	16	9	3	10
AR11-114059	15	10	11	7	33	19
AR11-114062	16	13	10	4	26	27
AR11-114063	8	26	13	19	2	17
AR11-114066	24	11	12	6	30	21
M06-235003	28	31	36	15	28	14
M06-294048	39	40	37	40	27	40
M06-310036	29	22	33	33	32	18
M06-310039	34	37	38	30	14	26
M06-337011	7	18	30	21	5	2
M06-337041	38	38	40	32	21	32
M06-355049	40	39	39	37	31	39
M06-382188	37	34	22	10	24	30
OAC 10-32C	33	31	27	36	39	35
OAC 10-36C	32	15	23	18	40	20
OAC 10-38C	34	30	24	29	15	31
OAC 10-40C	21	7	26	16	38	22
SD09CV-1018	21	16	21	8	37	23
SD09CV-1029	19	27	20	20	16	10
SD09CV-1040	14	24	18	11	27	14
SD09CV-1041	27	20	5	22	20	33
SD09CV-1152	17	35	24	31	22	29
SD09CV-1515	25	3	34	25	8	38
SD09CV-1565	30	28	29	39	11	36
SD09CV-1606	31	25	31	27	10	34
SD09CV-1622	23	4	19	28	36	1
SD09CV-2304	19	33	28	13	18	9
U09-118017	2	5	6	34	19	4
U09-119024	3	14	4	24	17	7
U09-211051	9	17	3	26	13	3

PRELIMINARY TEST I, 2012

YIELD RANK

Strain	Beemer NE	Cotesfield NE	Phillips NE	Ridgetown ONT	St. Hyacinthe Que.	Volga SD	Watertown SD
MN1410 (I)	15	5	8	27	16	21	5
IA1022 (SCN)	29	1	7	1	5	7	7
Sheyenne (0)	38	30	33	28	37	6	9
AR11-114002	5	4	10	8	15	19	11
AR11-114020	6	12	35	5	22	15	9
AR11-114021	31	39	25	3	23	20	17
AR11-114034	1	17	6	15	9	13	2
AR11-114041	26	10	32	7	3	17	2
AR11-114047	19	7	13	9	6	12	5
AR11-114052	13	28	11	20	8	22	28
AR11-114057	14	19	2	13	14	3	15
AR11-114059	8	6	28	6	11	30	27
AR11-114062	3	26	16	2	19	27	31
AR11-114063	9	8	30	14	12	5	15
AR11-114066	4	32	31	11	7	31	33
M06-235003	28	15	24	25	27	18	23
M06-294048	40	38	39	36	35	34	24
M06-310036	32	24	23	16	39	9	12
M06-310039	24	34	34	30	31	28	20
M06-337011	11	16	5	22	9	12	3
M06-337041	39	35	40	21	32	24	22
M06-355049	36	40	38	40	40	26	18
M06-382188	37	36	37	32	25	33	25
OAC 10-32C	34	20	15	37	30	11	30
OAC 10-36C	10	37	22	19	29	32	32
OAC 10-38C	33	33	26	39	27	29	26
OAC 10-40C	25	13	14	38	18	11	14
SD09CV-1018	23	23	36	4	17	13	19
SD09CV-1029	7	22	21	24	33	14	4
SD09CV-1040	16	3	12	23	13	22	15
SD09CV-1041	27	14	20	29	20	23	29
SD09CV-1152	17	11	3	26	24	8	10
SD09CV-1515	22	25	19	31	34	1	21
SD09CV-1565	20	31	18	34	36	2	8
SD09CV-1606	21	29	27	35	38	4	13
SD09CV-1622	18	27	29	33	25	10	16
SD09CV-2304	30	21	17	10	21	16	20
U09-118017	12	2	1	18	1	4	6
U09-119024	2	9	4	12	4	9	1
U09-211051	35	18	9	17	2	25	11

PRELIMINARY TEST I, 2012

MATURITY (date)

Strain	Mean 11 Tests	Kanawha IA	Lafayette IN	Ingham County MI	Lamberton MN	Waseca MN
MN1410 (I)	9/6	9/6	8/27	8/31	9/13	9/15
IA1022 (SCN)	6.0	6	10	13	9	-1
Sheyenne (0)	-4.6	-5	-4	-1	-2	-8
AR11-114002	8.8	6	21	13	11	-2
AR11-114020	6.7	8	15	12	8	0
AR11-114021	7.4	6	18	13	8	1
AR11-114034	6.5	5	13	13	6	1
AR11-114041	3.4	3	2	12	3	-1
AR11-114047	7.5	8	17	3	6	4
AR11-114052	6.9	6	11	10	9	1
AR11-114057	9.8	7	23	18	13	1
AR11-114059	10.3	9	19	17	9	2
AR11-114062	12.4	13	23	19	13	4
AR11-114063	8.3	6	20	14	8	3
AR11-114066	8.5	10	18	14	0	3
M06-235003	-2.0	-2	-2	3	-2	-6
M06-294048	-3.9	-4	-5	-1	-2	-8
M06-310036	-2.1	-3	0	-2	-1	-6
M06-310039	-3.3	-5	-4	-1	-1	-7
M06-337011	1.2	2	4	2	6	-4
M06-337041	-4.1	-5	-6	-3	0	-9
M06-355049	-6.0	-5	-12	-4	-3	-8
M06-382188	2.0	-2	2	11	0	0
OAC 10-32C	-1.0	-1	5	0	-1	-4
OAC 10-36C	7.4	12	22	8	8	1
OAC 10-38C	0.2	1	5	0	3	-7
OAC 10-40C	0.0	2	1	2	0	-5
SD09CV-1018	-0.0	1	2	4	0	-4
SD09CV-1029	-1.2	-2	-1	2	0	-6
SD09CV-1040	1.8	1	1	12	0	-4
SD09CV-1041	0.1	1	4	1	4	-2
SD09CV-1152	-0.7	-2	1	1	2	-4
SD09CV-1515	-2.7	-2	-2	2	0	-7
SD09CV-1565	-1.9	-4	4	-1	-1	-5
SD09CV-1606	-2.1	-3	-3	1	-1	2
SD09CV-1622	0.1	4	0	1	-2	0
SD09CV-2304	0.8	-1	0	6	2	-6
U09-118017	5.2	4	10	9	11	0
U09-119024	7.6	5	16	15	10	1
U09-211051	5.1	5	13	12	8	0
Date Planted	5/14	5/15	5/14	5/10	5/17	5/15
Days to Mature	116	114	105	113	119	123

PRELIMINARY TEST I, 2012

MATURITY (date)

Strain	Beemer NE	Cotesfield NE	Phillips NE	Ridgetown ONT	St. Hyacinthe Que.	Volga SD	Watertown SD
MN1410 (I)	8/31	9/11		9/5	9/14	9/3	9/12
IA1022 (SCN)	0	6		10	3	5	5
Sheyenne (0)	-9	-3		-5	-8	-4	-2
AR11-114002	6	9		14	7	7	5
AR11-114020	4	4		9	7	5	3
AR11-114021	4	9		8	5	6	5
AR11-114034	4	7		9	7	5	2
AR11-114041	-2	2		8	2	4	4
AR11-114047	4	5		16	7	7	5
AR11-114052	4	5		12	6	6	6
AR11-114057	9	6		8	12	7	5
AR11-114059	9	10		16	9	8	6
AR11-114062	10	12		18	12	7	6
AR11-114063	7	7		9	7	6	5
AR11-114066	7	9		12	9	7	6
M06-235003	-5	-3		0	-2	-1	-2
M06-294048	-9	-4		-2	-4	-2	-2
M06-310036	-5	-3		0	-5	1	0
M06-310039	-5	-3		-2	-6	-1	-2
M06-337011	-4	1		6	2	-1	0
M06-337041	-9	-3		-2	-5	-2	-2
M06-355049	-11	-6		-5	-9	-2	-2
M06-382188	-5	-2		9	0	4	4
OAC 10-32C	-4	-2		0	-6	0	1
OAC 10-36C	5	9		8	0	7	2
OAC 10-38C	-5	-2		7	-2	1	2
OAC 10-40C	-4	0		-1	0	5	1
SD09CV-1018	-4	-3		4	-1	0	0
SD09CV-1029	-4	-1		1	-4	-1	2
SD09CV-1040	-1	2		3	0	4	2
SD09CV-1041	-3	2		-8	-1	4	0
SD09CV-1152	-3	2		-2	-2	-1	1
SD09CV-1515	-5	-3		-5	-6	0	-2
SD09CV-1565	-6	-2		-2	-5	0	1
SD09CV-1606	-7	-2		-3	-6	-1	-1
SD09CV-1622	-4	0		3	-3	-2	4
SD09CV-2304	-1	1		3	-1	4	1
U09-118017	2	1		8	3	5	5
U09-119024	3	8		9	7	6	4
U09-211051	-6	-3		6	9	6	5
Date Planted	5/9	5/17	5/8	5/15	5/15	5/14	5/22
Days to Mature	114			113	122	112	113

PRELIMINARY TEST I, 2012

LODGING (score)

Strain	Mean 9 Tests	Kanawha IA	Lafayette IN	Ingham County MI	Lamberton MN	Waseca MN
MN1410 (I)	1.0	1.0	1.0	1.0	1.0	1.0
IA1022 (SCN)	1.2	1.5	1.0	1.0	1.0	1.0
Sheyenne (0)	1.2	1.5	1.0	1.0	2.0	1.0
AR11-114002	1.3	1.3	1.0	1.0	1.5	1.0
AR11-114020	1.2	1.5	1.0	1.0	1.5	1.0
AR11-114021	1.2	1.3	1.0	1.0	2.0	1.0
AR11-114034	1.2	1.5	1.0	1.0	1.5	1.0
AR11-114041	1.1	1.5	1.0	1.0	1.0	1.0
AR11-114047	1.5	1.5	1.0	1.0	1.0	1.0
AR11-114052	1.4	1.3	1.0	1.0	1.5	1.0
AR11-114057	1.2	1.5	1.0	1.0	2.0	1.0
AR11-114059	1.3	1.8	1.0	1.0	1.5	1.0
AR11-114062	1.2	1.5	1.0	1.0	1.5	1.0
AR11-114063	1.1	1.3	1.0	1.0	1.5	1.0
AR11-114066	1.9	2.3	1.8	1.0	1.5	1.0
M06-235003	1.3	1.3	1.0	1.0	2.0	1.0
M06-294048	1.6	1.8	1.0	1.0	1.5	1.0
M06-310036	1.1	1.0	1.0	1.0	1.5	1.0
M06-310039	1.1	1.3	1.0	1.0	2.0	1.0
M06-337011	1.1	1.0	1.0	1.0	2.0	1.0
M06-337041	1.8	1.8	1.3	1.0	2.0	1.0
M06-355049	1.3	1.5	1.0	1.0	2.0	1.0
M06-382188	2.2	2.3	2.0	1.0	2.5	1.0
OAC 10-32C	1.4	1.5	1.0	1.0	2.0	1.0
OAC 10-36C	1.2	2.0	1.3	1.0	1.5	1.0
OAC 10-38C	1.2	1.5	1.0	1.0	1.5	1.0
OAC 10-40C	1.1	1.3	1.0	1.0	1.5	1.0
SD09CV-1018	1.2	1.0	1.0	1.0	1.0	1.0
SD09CV-1029	1.2	1.0	1.0	1.0	2.0	1.0
SD09CV-1040	1.1	1.0	1.0	1.0	1.0	1.0
SD09CV-1041	2.1	1.8	2.0	1.0	2.0	1.0
SD09CV-1152	1.1	1.3	1.0	1.0	2.0	1.0
SD09CV-1515	1.3	1.3	1.0	1.0	2.0	1.0
SD09CV-1565	1.2	1.3	1.0	1.0	1.5	1.0
SD09CV-1606	1.0	1.0	1.0	1.0	1.0	1.0
SD09CV-1622	1.0	1.0	1.0	1.0	1.0	1.0
SD09CV-2304	1.1	1.3	1.0	1.0	1.5	1.0
U09-118017	1.3	1.3	1.0	1.0	1.5	1.0
U09-119024	1.1	1.0	1.0	1.0	2.0	1.0
U09-211051	1.1	1.3	1.0	1.0	1.5	1.0

PRELIMINARY TEST I, 2012

LODGING (score)

Strain	Beemer NE	Cotesfield NE	Phillips NE	Ridgetown ONT	St. Hyacinthe Que.	Volga SD	Watertown SD
MN1410 (I)			1.0	1.0		1.0	1.0
IA1022 (SCN)			1.0	1.0		2.0	1.0
Sheyenne (0)			1.0	1.0		1.0	1.0
AR11-114002			1.0	1.0		3.0	1.0
AR11-114020			1.0	1.0		2.0	1.0
AR11-114021			1.0	1.5		1.0	1.0
AR11-114034			1.0	1.0		2.0	1.0
AR11-114041			1.0	1.0		1.0	1.0
AR11-114047			1.0	1.0		5.0	1.0
AR11-114052			1.0	1.5		3.0	1.0
AR11-114057			1.0	1.0		1.0	1.0
AR11-114059			1.0	2.0		1.0	1.0
AR11-114062			1.0	2.0		1.0	1.0
AR11-114063			1.0	1.0		1.0	1.0
AR11-114066			1.0	2.5		5.0	1.0
M06-235003			1.0	2.0		1.0	1.0
M06-294048			1.0	1.5		5.0	1.0
M06-310036			1.0	1.0		1.0	1.0
M06-310039			1.0	1.0		1.0	1.0
M06-337011			1.0	1.0		1.0	1.0
M06-337041			3.0	2.0		3.0	1.0
M06-355049			1.0	1.5		2.0	1.0
M06-382188			3.0	3.0		4.0	1.0
OAC 10-32C			1.0	1.0		3.0	1.0
OAC 10-36C			1.0	1.0		1.0	1.0
OAC 10-38C			1.0	1.5		1.0	1.0
OAC 10-40C			1.0	1.0		1.0	1.0
SD09CV-1018			1.0	1.5		2.0	1.0
SD09CV-1029			1.0	1.5		1.0	1.0
SD09CV-1040			1.0	1.5		1.0	1.0
SD09CV-1041			3.0	2.5		5.0	1.0
SD09CV-1152			1.0	1.0		1.0	1.0
SD09CV-1515			1.0	1.0		2.0	1.0
SD09CV-1565			1.0	1.0		2.0	1.0
SD09CV-1606			1.0	1.0		1.0	1.0
SD09CV-1622			1.0	1.0		1.0	1.0
SD09CV-2304			1.0	1.5		1.0	1.0
U09-118017			1.0	1.0		3.0	1.0
U09-119024			1.0	1.0		1.0	1.0
U09-211051			1.0	1.5		1.0	1.0

PRELIMINARY TEST I, 2012

PLANT HEIGHT (inches)

Strain	Mean 8 Tests	Kanawha IA	Lafayette IN	Ingham County MI	Lamberton MN	Waseca MN
MN1410 (I)	36	29	33	26	39	
IA1022 (SCN)	35	29	36	25	38	
Sheyenne (0)	35	30	31	21	36	
AR11-114002	35	27	36	23	40	
AR11-114020	34	28	31	24	40	
AR11-114021	31	25	31	27	38	
AR11-114034	34	29	35	23	39	
AR11-114041	37	33	37	29	40	
AR11-114047	35	31	35	24	39	
AR11-114052	37	29	35	22	39	
AR11-114057	32	26	31	22	38	
AR11-114059	34	31	33	22	39	
AR11-114062	37	36	35	25	40	
AR11-114063	32	28	33	19	36	
AR11-114066	43	42	44	32	41	
M06-235003	40	36	38	26	43	
M06-294048	32	24	29	20	37	
M06-310036	35	30	31	22	39	
M06-310039	35	31	31	22	41	
M06-337011	36	34	33	24	44	
M06-337041	42	37	40	29	40	
M06-355049	31	27	30	23	33	
M06-382188	41	33	40	30	43	
OAC 10-32C	35	32	36	24	36	
OAC 10-36C	41	36	41	30	45	
OAC 10-38C	40	35	39	26	44	
OAC 10-40C	34	32	33	22	34	
SD09CV-1018	35	30	32	26	41	
SD09CV-1029	36	33	35	20	44	
SD09CV-1040	36	31	36	25	40	
SD09CV-1041	41	34	40	26	41	
SD09CV-1152	34	28	31	20	44	
SD09CV-1515	32	26	29	20	41	
SD09CV-1565	31	25	32	17	35	
SD09CV-1606	32	29	31	19	37	
SD09CV-1622	34	33	32	21	35	
SD09CV-2304	36	32	37	26	39	
U09-118017	35	30	36	19	39	
U09-119024	35	32	35	22	40	
U09-211051	34	30	35	18	39	

PRELIMINARY TEST I, 2012

PLANT HEIGHT (inches)

Strain	Beemer NE	Cotesfield NE	Phillips NE	Ridgetown ONT	St. Hyacinthe Que.	Volga SD	Watertown SD
MN1410 (I)			41	40		34	44
IA1022 (SCN)			38	39		41	31
Sheyenne (0)			35	41		38	49
AR11-114002			41	41		36	32
AR11-114020			33	40		38	35
AR11-114021			38	37		30	23
AR11-114034			38	39		34	33
AR11-114041			42	41		36	37
AR11-114047			37	48		34	35
AR11-114052			46	39		35	47
AR11-114057			34	38		31	34
AR11-114059			42	41		34	33
AR11-114062			43	44		40	36
AR11-114063			32	43		33	29
AR11-114066			49	58		47	34
M06-235003			45	43		40	47
M06-294048			28	44		34	38
M06-310036			40	37		34	44
M06-310039			43	39		35	39
M06-337011			39	44		37	32
M06-337041			44	52		47	48
M06-355049			27	34		34	40
M06-382188			47	46		47	40
OAC 10-32C			43	34		39	39
OAC 10-36C			52	47		39	35
OAC 10-38C			47	47		40	42
OAC 10-40C			40	38		38	36
SD09CV-1018			37	41		35	40
SD09CV-1029			37	43		37	43
SD09CV-1040			44	41		38	37
SD09CV-1041			47	45		47	48
SD09CV-1152			40	37		35	35
SD09CV-1515			35	37		36	34
SD09CV-1565			36	35		34	31
SD09CV-1606			37	35		33	34
SD09CV-1622			38	38		37	35
SD09CV-2304			42	42		35	38
U09-118017			44	45		36	31
U09-119024			41	42		33	36
U09-211051			40	43		35	36

PRELIMINARY TEST I, 2012

SEED QUALITY (score)

Strain	Mean 8 Tests	Kanawha IA	Lafayette IN	Ingham County MI	Lamberton MN	Waseca MN
MN1410 (I)	1.7	2.0	3.5		1.0	1.0
IA1022 (SCN)	1.5	2.0	2.0		1.0	1.0
Sheyenne (0)	2.2	2.0	4.0		2.0	1.0
AR11-114002	1.9	2.0	3.5		2.0	1.0
AR11-114020	1.3	2.0	1.5		1.0	1.0
AR11-114021	2.0	3.0	3.5		2.0	1.0
AR11-114034	1.8	3.0	2.0		1.0	1.0
AR11-114041	1.6	2.0	2.0		1.0	2.0
AR11-114047	1.8	2.0	3.0		2.0	1.0
AR11-114052	1.8	2.0	1.5		2.0	1.0
AR11-114057	1.8	2.0	2.5		1.0	1.0
AR11-114059	1.6	2.0	2.5		1.0	1.0
AR11-114062	2.2	3.0	3.0		2.0	1.0
AR11-114063	1.5	2.0	2.0		1.0	1.0
AR11-114066	1.9	3.0	2.5		2.0	1.0
M06-235003	2.0	2.0	2.5		2.0	2.0
M06-294048	1.7	2.0	2.5		3.0	1.0
M06-310036	2.1	2.0	4.0		2.0	1.0
M06-310039	1.9	2.0	3.5		2.0	1.0
M06-337011	2.1	2.0	3.0		2.0	2.0
M06-337041	1.8	2.0	3.0		1.0	1.0
M06-355049	2.4	3.0	5.0		2.0	1.0
M06-382188	1.6	2.0	1.5		3.0	1.0
OAC 10-32C	1.9	2.0	2.5		2.0	1.0
OAC 10-36C	1.7	2.0	2.5		2.0	1.0
OAC 10-38C	1.6	1.0	2.0		2.0	2.0
OAC 10-40C	1.4	2.0	2.5		1.0	1.0
SD09CV-1018	1.8	2.0	3.0		2.0	1.0
SD09CV-1029	1.7	2.0	2.0		2.0	1.0
SD09CV-1040	1.6	2.0	2.0		2.0	1.0
SD09CV-1041	1.8	2.0	2.5		1.0	1.0
SD09CV-1152	1.9	2.0	3.0		2.0	1.0
SD09CV-1515	2.1	2.0	4.0		2.0	2.0
SD09CV-1565	2.2	2.0	4.5		2.0	2.0
SD09CV-1606	2.3	2.0	4.0		1.0	2.0
SD09CV-1622	1.9	2.0	2.5		1.0	2.0
SD09CV-2304	2.2	3.0	4.0		2.0	1.0
U09-118017	1.8	3.0	2.0		1.0	1.0
U09-119024	1.4	2.0	1.5		1.0	1.0
U09-211051	1.6	2.0	2.0		2.0	1.0

PRELIMINARY TEST I, 2012

SEED QUALITY (score)

Strain	Beemer NE	Cotesfield NE	Phillips NE	Ridgetown ONT	St. Hyacinthe Que.	Volga SD	Watertown SD
MN1410 (I)				2.0	2.3	1.0	1.0
IA1022 (SCN)				1.5	2.3	1.0	1.0
Sheyenne (0)				2.0	4.7	1.0	1.0
AR11-114002				1.0	3.0	2.0	1.0
AR11-114020				1.0	2.0	1.0	1.0
AR11-114021				1.5	3.3	1.0	1.0
AR11-114034				1.5	3.0	2.0	1.0
AR11-114041				1.5	2.7	1.0	1.0
AR11-114047				2.0	2.7	1.0	1.0
AR11-114052				2.0	3.0	2.0	1.0
AR11-114057				1.5	4.7	1.0	1.0
AR11-114059				1.0	2.0	1.0	2.0
AR11-114062				1.0	3.3	2.0	2.0
AR11-114063				1.0	2.7	1.0	1.0
AR11-114066				1.0	3.3	1.0	1.0
M06-235003				1.5	3.3	2.0	1.0
M06-294048				1.0	2.0	1.0	1.0
M06-310036				1.0	4.0	2.0	1.0
M06-310039				1.0	3.3	1.0	1.0
M06-337011				2.0	3.0	2.0	1.0
M06-337041				1.0	4.0	1.0	1.0
M06-355049				2.0	4.0	1.0	1.0
M06-382188				1.0	2.0	1.0	1.0
OAC 10-32C				1.5	4.3	1.0	1.0
OAC 10-36C				1.0	3.3	1.0	1.0
OAC 10-38C				1.0	3.0	1.0	1.0
OAC 10-40C				1.0	2.0	1.0	1.0
SD09CV-1018				1.0	2.3	2.0	1.0
SD09CV-1029				1.0	3.3	1.0	1.0
SD09CV-1040				1.0	3.0	1.0	1.0
SD09CV-1041				1.0	3.7	2.0	1.0
SD09CV-1152				2.0	3.3	1.0	1.0
SD09CV-1515				1.5	3.0	1.0	1.0
SD09CV-1565				2.0	3.0	1.0	1.0
SD09CV-1606				2.0	4.3	2.0	1.0
SD09CV-1622				1.0	3.0	2.0	2.0
SD09CV-2304				1.5	3.3	2.0	1.0
U09-118017				1.0	2.3	2.0	2.0
U09-119024				1.0	2.0	2.0	1.0
U09-211051				1.0	2.0	2.0	1.0

PRELIMINARY TEST I, 2012

SEED SIZE (g/100)

Strain	Mean 10 Tests	Kanawha IA	Lafayette IN	Ingham County MI	Lamberton MN	Waseca MN
MN1410 (I)	15.5	15.4	12.5	12.6	16.2	15.8
IA1022 (SCN)	15.3	14.3	15.1	15.3	16.5	14.1
Sheyenne (0)	15.0	15.4	13.4	13.1	15.4	16.3
AR11-114002	16.9	16.9	16.9	14.6	17.0	16.9
AR11-114020	14.8	14.1	14.9	14.5	14.1	14.2
AR11-114021	16.6	16.5	16.5	16.4	17.0	15.4
AR11-114034	15.8	14.9	15.2	14.2	15.8	16.5
AR11-114041	16.8	17.5	15.1	17.8	14.4	17.5
AR11-114047	16.1	16.9	16.2	11.4	17.0	15.5
AR11-114052	16.4	15.9	15.0	12.8	16.7	16.2
AR11-114057	17.4	16.7	16.9	16.5	18.8	17.5
AR11-114059	15.8	14.8	16.5	16.0	14.4	14.0
AR11-114062	14.4	14.2	15.2	15.0	13.0	13.3
AR11-114063	15.5	14.5	15.0	14.2	15.9	15.2
AR11-114066	16.9	16.2	16.6	15.9	17.4	15.7
M06-235003	17.0	16.9	14.9	15.6	17.1	18.4
M06-294048	17.6	17.5	15.1	13.6	18.4	19.1
M06-310036	14.9	14.5	12.9	12.7	15.5	15.5
M06-310039	13.8	13.3	11.6	12.2	15.7	14.3
M06-337011	16.7	17.6	13.8	11.9	17.5	16.6
M06-337041	17.0	15.9	16.4	12.9	17.5	18.5
M06-355049	12.7	12.5	11.7	8.9	13.4	12.9
M06-382188	15.7	15.9	15.6	14.7	15.6	14.7
OAC 10-32C	15.7	14.5	15.8	13.0	16.2	15.4
OAC 10-36C	14.8	14.2	15.4	13.2	14.0	15.9
OAC 10-38C	16.9	16.7	16.3	11.8	17.7	17.3
OAC 10-40C	16.3	15.7	13.7	13.9	14.0	17.2
SD09CV-1018	16.9	16.2	15.0	14.5	18.5	17.2
SD09CV-1029	14.4	13.4	11.8	11.7	18.3	15.0
SD09CV-1040	16.0	15.6	14.1	14.7	16.3	15.5
SD09CV-1041	16.6	15.9	16.6	13.9	15.9	16.4
SD09CV-1152	18.7	18.6	16.6	14.8	18.3	18.5
SD09CV-1515	17.4	17.1	13.8	14.5	21.5	18.0
SD09CV-1565	16.7	16.0	14.3	11.4	20.7	17.8
SD09CV-1606	16.9	16.3	14.0	13.2	19.4	18.3
SD09CV-1622	14.5	16.0	12.3	11.5	19.8	14.5
SD09CV-2304	14.6	13.3	14.2	14.5	17.5	0.0
U09-118017	16.4	14.7	15.7	15.2	18.9	15.9
U09-119024	15.6	14.5	15.2	13.7	18.1	13.8
U09-211051	15.0	14.2	16.4	13.5	17.4	14.9

PRELIMINARY TEST I, 2012

SEED SIZE (g/100)

Strain	Beemer NE	Cotesfield NE	Phillips NE	Ridgetown ONT	St. Hyacinthe Que.	Volga SD	Watertown SD
MN1410 (I)		18.5	18.2	16.6		14.6	14.9
IA1022 (SCN)		17.8	15.5	18.3		12.8	13.3
Sheyenne (0)		16.5	17.6	15.0		14.2	12.7
AR11-114002		17.6	19.4	21.0		13.8	15.4
AR11-114020		16.1	15.9	18.0		13.2	13.3
AR11-114021		18.4	16.9	19.5		14.2	15.1
AR11-114034		18.0	17.7	18.6		13.2	14.2
AR11-114041		19.1	16.9	18.7		14.7	16.3
AR11-114047		17.7	19.0	19.2		13.8	14.5
AR11-114052		19.1	18.6	21.6		13.3	14.9
AR11-114057		18.7	19.9	20.4		13.6	15.2
AR11-114059		19.1	19.1	18.2		12.8	13.5
AR11-114062		17.3	14.3	16.7		12.2	13.0
AR11-114063		17.2	16.6	18.1		13.3	14.9
AR11-114066		18.5	18.9	19.5		14.6	15.3
M06-235003		18.4	19.2	18.5		16.2	14.7
M06-294048		20.2	21.0	19.5		16.0	15.9
M06-310036		17.1	17.2	16.0		13.9	13.3
M06-310039		16.5	15.4	14.4		12.5	12.3
M06-337011		19.1	21.5	18.0		16.0	14.8
M06-337041		19.2	20.8	19.0		14.6	15.1
M06-355049		16.4	14.2	13.4		12.1	11.8
M06-382188		19.5	17.6	17.4		12.7	13.4
OAC 10-32C		19.0	19.2	16.7		13.5	13.3
OAC 10-36C		16.6	16.6	17.3		12.5	12.8
OAC 10-38C		19.4	19.5	20.2		14.7	15.3
OAC 10-40C		20.8	19.2	17.0		16.3	15.3
SD09CV-1018		19.2	19.1	20.4		14.8	14.3
SD09CV-1029		16.4	14.7	16.1		12.5	14.0
SD09CV-1040		17.5	18.2	18.4		14.6	15.2
SD09CV-1041		19.4	18.5	19.2		15.1	14.9
SD09CV-1152		22.4	21.8	21.0		16.6	18.5
SD09CV-1515		19.9	20.9	18.6		14.9	15.1
SD09CV-1565		19.4	19.9	17.5		14.7	15.7
SD09CV-1606			20.7	18.2		15.9	16.2
SD09CV-1622		15.3	15.6	15.4		11.8	12.9
SD09CV-2304		19.4	19.4	18.5		13.5	15.3
U09-118017		19.8	17.0	18.8		14.0	14.4
U09-119024		18.2	16.4	17.7		13.7	15.0
U09-211051		15.5	14.4	16.2		13.4	13.8

PRELIMINARY TEST I, 2012

PROTEIN (%)

Strain	Mean 5 Tests	Kanawha IA	Lamberton MN	Waseca MN	Ridgetown* ONT	Volga SD
MN1410 (I)	35.7	35.2	35.2	35.1	37.8	35.1
IA1022 (SCN)	33.0	31.4	32.1	32.3	35.8	33.5
Sheyenne (0)	33.6	33.4	33.9	32.2	35.4	32.9
AR11-114002	36.4	36.3	35.2	35.6	38.5	36.3
AR11-114020	35.3	34.9	34.6	34.3	37.3	35.4
AR11-114021	35.9	34.8	35.8	35.3	37.8	35.6
AR11-114034	35.0	34.4	34.2	33.9	37.7	35.1
AR11-114041	35.9	34.3	35.9	34.7	39.2	35.4
AR11-114047	35.6	35.9	36.7	33.1	36.5	36.0
AR11-114052	35.2	35.3	34.8	33.9	36.7	35.3
AR11-114057	34.7	33.9	33.8	34.4	36.5	34.7
AR11-114059	34.3	32.7	33.7	34.5	35.3	35.2
AR11-114062	36.2	34.9	35.4	36.1	37.9	36.6
AR11-114063	35.4	34.4	34.9	34.7	38.0	35.1
AR11-114066	35.6	34.5	35.5	34.0	37.3	36.5
M06-235003	34.6	33.5	35.1	32.9	36.9	34.6
M06-294048	36.3	36.4	37.1	34.3	38.7	35.1
M06-310036	34.3	33.7	34.8	33.2	36.2	33.6
M06-310039	34.2	33.7	34.3	32.8	36.5	33.6
M06-337011	34.9	34.2	36.1	33.7	36.0	34.6
M06-337041	34.9	34.1	36.4	33.2	36.1	34.8
M06-355049	37.8	37.3	38.3	36.6	40.6	35.9
M06-382188	35.8	35.3	35.4	34.5	38.1	35.6
OAC 10-32C	35.3	35.1	34.4	34.7	37.7	34.7
OAC 10-36C	34.6	33.6	33.9	33.7	36.4	35.5
OAC 10-38C	35.9	35.8	35.1	34.9	38.3	35.3
OAC 10-40C	35.2	34.7	34.2	34.5	37.1	35.4
SD09CV-1018	35.5	34.7	34.5	34.7	38.1	35.6
SD09CV-1029	35.6	34.7	35.8	34.6	37.9	35.1
SD09CV-1040	35.2	34.8	36.4	34.8	34.9	35.2
SD09CV-1041	35.2	34.3	35.0	34.2	37.1	35.2
SD09CV-1152	35.4	36.1	34.6	34.3	37.3	34.9
SD09CV-1515	35.7	35.3	36.1	34.4	37.6	35.0
SD09CV-1565	36.0	35.7	36.8	35.0	37.2	35.2
SD09CV-1606	35.9	35.3	35.6	35.7	37.8	35.4
SD09CV-1622	35.1	34.0	35.4	33.7	37.3	35.0
SD09CV-2304	36.0	35.3	35.7	35.0	38.6	35.2
U09-118017	34.2	33.5	33.5	33.3	36.5	34.5
U09-119024	33.9	33.6	33.1	33.2	35.8	33.6
U09-211051	34.8	33.4	36.5	33.3	36.4	34.3

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

PRELIMINARY TEST I, 2012

OIL (%)

Strain	Mean 5 Tests	Kanawha IA	Lamberton MN	Waseca MN	Ridgetown* ONT	Volga SD
MN1410 (I)	18.9	20.0	18.9	18.5	18.1	19.0
IA1022 (SCN)	20.1	21.8	20.2	20.0	19.3	19.2
Sheyenne (0)	19.4	20.2	18.9	19.6	18.7	19.6
AR11-114002	18.4	19.4	18.9	18.2	17.7	17.8
AR11-114020	18.7	19.7	19.0	18.5	18.0	18.4
AR11-114021	18.3	19.4	18.1	18.3	18.1	17.7
AR11-114034	18.4	19.5	18.5	18.4	17.7	18.1
AR11-114041	18.3	20.2	17.8	18.5	16.9	18.3
AR11-114047	18.5	19.2	18.2	19.3	18.2	17.9
AR11-114052	18.7	19.7	18.5	18.7	18.9	17.8
AR11-114057	18.8	19.8	18.5	18.4	18.7	18.5
AR11-114059	19.0	20.8	19.0	18.4	19.0	17.9
AR11-114062	18.0	19.5	17.7	17.8	17.4	17.6
AR11-114063	17.7	19.2	17.4	17.7	16.9	17.4
AR11-114066	18.8	20.1	18.5	19.1	17.9	18.4
M06-235003	19.8	21.3	19.1	19.8	19.1	19.6
M06-294048	17.6	18.5	17.4	18.0	16.4	17.7
M06-310036	18.9	20.0	18.2	19.1	18.7	18.7
M06-310039	19.6	20.5	19.4	19.4	19.0	19.6
M06-337011	19.6	20.8	18.9	19.9	18.8	19.4
M06-337041	19.5	20.5	18.9	19.9	19.4	18.8
M06-355049	17.3	18.4	16.8	17.5	15.7	18.0
M06-382188	18.2	19.1	18.2	18.2	17.4	18.0
OAC 10-32C	18.5	19.5	19.0	18.0	17.6	18.4
OAC 10-36C	18.9	20.0	19.1	19.1	18.3	18.1
OAC 10-38C	19.1	20.0	19.5	19.2	18.2	18.8
OAC 10-40C	18.8	19.7	19.6	18.5	17.9	18.5
SD09CV-1018	18.8	20.0	19.0	18.6	17.7	18.4
SD09CV-1029	18.7	19.7	18.7	18.8	17.4	18.7
SD09CV-1040	18.6	19.8	18.4	18.5	17.7	18.5
SD09CV-1041	18.8	19.8	18.8	18.9	17.8	18.6
SD09CV-1152	19.0	19.7	19.8	18.8	18.1	18.7
SD09CV-1515	19.0	19.9	18.7	19.0	18.4	19.3
SD09CV-1565	19.1	20.2	18.4	19.0	18.6	19.3
SD09CV-1606	19.3	20.5	19.2	18.8	18.5	19.4
SD09CV-1622	19.2	20.5	19.5	19.5	18.1	18.6
SD09CV-2304	18.4	19.7	18.7	18.3	17.1	18.4
U09-118017	18.7	20.0	18.4	18.9	18.4	18.0
U09-119024	19.2	20.2	18.8	19.6	18.8	18.6
U09-211051	19.1	20.5	18.6	19.2	18.3	18.7

Uniform Test II, 2012

Ent.	Strain	Parentage	Seed Source	Previous Testing	Gen. Comp.	Unique Traits
1	IA 2102 (II)	A04-545045 x AgriPro 98180-A01-0613	Fehr	11 UT II	F4	
2.	IA1022 (SCN)	Dairyland 98822 x A00-711024	Fehr	4	F5	SCN
3.	IA3024	A97-553017 x Pioneer YB33A99	Fehr	5		1% linolenic
4.	LD02-4485 (SCN)	M90-184111 x IA3010	Diers	1	F5	SCN
5.	A09-755015	IA3042 x IA3028	Fehr			1% linolenic
6.	AR09-192019	LD01-7323 x AR02-101001	Cianzo	1	F4	BSR
7.	AR09-292004	Syngenta 03KL016094 x AR03-361019	Cianzio	PTI	F3	SDS
8.	AR10-106008	AR05-150109 x Syngenta 03JR321086	Cianzio	PTI	F3	BSR
9.	AR10-206012	Golden Harv 24040 x AR05-250117	Cianzio	PTIIA	F4	
10.	AR10-206073	AR02-101001 x Golden Harvest H-2632	Cianzio	PTIIA	F3	BSR
11.	AR10-206075	AR05-150109 x Syngenta 03JR321086	Cianzio	PTIIA	F3	BSR
12.	E09090	Skylla x LD01-7323	Wang	PTIIA		
13.	LD08-12428a	LD02-4485(2) x (Ina x PI 200538)	Diers	SCN PTIIB	F5	SCN, Rag2
14.	LD08-6982	LD03-10487 x LD02-4485	Diers	SCN PTIIB	F5	SCN
15.	LD08-12435a	LD02-4485(2) x (Ina x PI 200538)	Diers	SCN PTIIB	F5	SCN, Rag2
16.	HM09-W146	HS0-3243 x IA 3017	McHale	PTIIB	F4	
17.	SD07CV-631	M96-355009 x Pion 9233	Jiang	1	F8	
18.	SD08CV-2102	M97-136016 x SD96-135-3	Jiang	PTIIA	F5	
19.	U09-215057	U01-390489 x U03-200317	Graef	PTIIB	F5	SCN,Rps,Dt
20.	U09-224078	U03-200317 x U03-300134	Graef	PTIIB	F5	Rps
21.	U09-310098	U02-242055 x U03-200317	Graef	PTIIB	F5	Rps1K
22.	U09-311114	U02-242055 x U03-200317	Graef	PTIIB	F5	Rps1K
23.	U09-312115	U02-242055 x U03-300134	Graef	PTIIB	F5	Rps1K
24.	U09-316113	LD01-5907 x U03-300134	Graef	PTIIB	F5	SCN,Rps
25.	U09-317120	U03-300134 x U03-400435	Graef	PTIIB	F5	Rps,

UNIFORM TEST II, 2012

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	Chlorosis Score Humboldt IA	Chlorosis Score Danvers MN	Shattering Score Manhattan KS
IA 2102 (II)	WGBDYYI	3.4	1.5	1.0
IA1022 (SCN)	PGTSYYI	3.4	1.9	1.0
IA3024	PGTDYIbI	3.9	1.6	1.0
LD02-4485 (SCN)	PGBDYLbfI	3.4	1.6	1.0
A09-755015	PTTDYBl+BrI	3.5	2.6	1.0
AR09-192019	P+WGTDYYI	3.9	1.6	1.0
AR09-292004	PLtTDYYI	3.8	2.0	1.0
AR10-106008	WLtTIYBl+BrI	3.6	2.1	2.0
AR10-206012	PGBDYG+BfI	3.6	1.9	1.0
AR10-206073	WGBDYBfI	3.3	1.6	1.0
AR10-206075	P+WLtTDYBrI	3.8	1.4	1.0
E09090	PGTDYGI	4.1	1.1	1.0
LD08-12428a	PGBDYBfI	3.1	1.8	1.0
LD08-6982	PGBDYIbI	4.3	1.4	2.0
LD08-12435a	PGBDYBfI	3.2	1.4	1.0
HM09-W146	WLtBDYBlI	3.9	1.6	1.0
SD07CV-631	PGBDYYI	3.1	1.8	1.0
SD08CV-2102	PGBDYBfI	3.0	1.4	1.0
U09-215057	WGBDYBfI	4.4	1.1	1.0
U09-224078	PLtBDYBlI	4.4	1.5	2.0
U09-310098	WGBDYBlI	4.3	2.3	1.0
U09-311114	P+WG+LtTDYBlI	3.9	1.5	1.0
U09-312115	PLtBDYBlI	3.3	1.5	1.0
U09-316113	PGBDYIbI	3.3	1.8	1.0
U09-317120	PLtBDYBlI	3.8	1.9	1.0

UNIFORM TEST II, 2012

REGIONAL SUMMARY

No. of Tests Strain	Yield 17 bu/a	Rank 17 No.	Maturity 18 Date	Lodging 19 Score	Plant Height 16 In.	Seed Quality 13 Score	Seed Size 19 g/100	Composition Protein 13 %	 Oil 13 %
IA 2102 (II)	59.9	1	9/16	1.8	36	1.7	15.6	34.5	19.1
IA1022 (SCN)	54.3	21	-4.2	1.5	34	1.7	15.4	32.8	20.5
IA3024	57.1	12	7.4	1.4	36	1.7	16.6	34.1	19.0
LD02-4485 (SCN)	57.6	8	2.0	1.4	35	1.6	14.9	33.0	19.5
A09-755015	49.5	25	-4.3	1.5	33	1.8	15.5	35.9	18.5
AR09-192019	57.3	11	-1.9	1.5	32	1.7	15.6	35.2	18.5
AR09-292004	54.6	20	1.1	1.4	35	1.9	15.5	34.8	19.0
AR10-106008	53.6	24	-1.2	1.2	31	1.9	15.1	34.1	19.3
AR10-206012	57.0	14	3.3	1.4	35	1.4	15.5	34.2	20.0
AR10-206073	56.9	15	2.1	1.3	34	1.2	14.0	34.0	18.8
AR10-206075	57.6	8	1.1	1.3	32	1.4	14.7	34.6	19.5
E09090	57.9	6	0.6	1.3	33	1.6	16.8	33.5	19.1
LD08-12428a	57.1	12	0.7	1.3	33	1.5	16.0	33.4	19.4
LD08-6982	55.4	18	4.4	1.4	36	1.6	14.7	33.2	19.5
LD08-12435a	58.6	3	3.5	1.6	34	1.9	15.5	33.2	19.8
HM09-W146	56.3	16	4.6	1.5	34	1.5	16.6	35.5	19.2
SD07CV-631	54.3	21	2.2	1.5	36	1.5	15.9	35.9	18.6
SD08CV-2102	55.6	17	2.5	1.4	34	1.5	14.9	34.9	18.8
U09-215057	55.0	19	3.6	1.1	34	1.6	15.7	33.3	19.7
U09-224078	53.8	23	4.3	1.2	34	1.4	13.1	33.6	19.3
U09-310098	57.8	7	4.7	1.4	38	1.3	14.8	33.3	20.3
U09-311114	57.5	10	6.2	1.4	37	1.5	16.0	33.2	19.8
U09-312115	59.1	2	5.5	1.3	33	1.2	12.9	32.6	20.1
U09-316113	58.0	5	5.7	1.3	36	2.1	14.6	32.7	19.5
U09-317120	58.1	4	3.3	1.2	33	1.2	12.5	33.7	19.4

125.7 Days After Planting

UNIFORM TEST II, 2012

2011-2012 2-YEAR MEAN

No. of Tests Strain	Yield 37 bu/a	Rank 37 No.	Maturity 32 Date	Lodging 36 Score	Plant Height 33 In.	Seed Quality 28 Score	Seed Size 38 g/100	Composition Protein 17 %	 Oil 17 %
IA 2102 (II)	61.6	1	9/21	1.9	36	1.5	15.6	34.2	18.4
IA1022 (SCN)	55.5	6	-4.0	1.7	34	1.6	15.2	31.8	20.2
IA3024	58.8	4	5.5	1.5	37	1.6	16.1	33.2	18.6
LD02-4485 (SCN)	59.1	2	0.9	1.6	36	1.5	14.6	32.1	19.1
AR09-192019	59.0	3	-1.5	1.6	33	1.6	15.5	34.6	18.1
SD07CV-631	57.2	5	2.0	1.7	37	1.4	15.9	35.4	18.0

125.3 Days After Planting

UNIFORM TEST II, 2012

YIELD (bu/a)

Strain	Mean 17 Tests	Carlisle IA	Eldora IA	Boone IA	Dekalb IL	Urbana IL	Lafayette IN	Wanatah IN	Ingham* County MI	Lenaweee County MI	Lamberton MN
IA 2102 (II)	59.9	60.4	61.5	72.5	64.4	37.5	44.8	59.5	36.7	61.5	46.8
IA1022 (SCN)	54.3	56.2	53.0	67.2	53.0	38.2	39.6	62.1	27.1	46.8	43.4
IA3024	57.1	65.0	46.0	74.3	59.5	41.3	48.9	64.5	32.7	52.2	40.4
LD02-4485 (SCN)	57.6	54.1	54.6	70.7	60.4	48.4	64.3	67.1	39.4	51.1	41.8
A09-755015	49.5	48.4	45.6	59.8	63.3	36.7	35.4	59.5	27.6	47.8	42.3
AR09-192019	57.3	57.6	53.8	66.5	54.2	46.2	54.5	64.3	35.3	49.5	41.4
AR09-292004	54.6	59.3	44.6	67.9	54.9	37.7	34.8	62.1	26.8	48.4	40.4
AR10-106008	53.6	52.1	42.7	61.3	60.1	38.6	39.7	63.2	18.9	50.4	43.0
AR10-206012	57.0	58.4	49.3	69.8	60.5	47.6	46.7	66.9	24.9	49.5	41.8
AR10-206073	56.9	55.2	50.5	73.1	65.8	47.5	52.5	61.6	16.0	51.3	37.9
AR10-206075	57.6	61.7	49.2	75.3	67.1	42.1	48.0	62.3	25.1	45.6	38.9
E09090	57.9	60.3	64.0	71.6	57.7	43.8	52.6	66.4	23.0	54.2	48.3
LD08-12428a	57.1	55.7	56.7	69.4	53.0	47.7	51.7	68.0	36.2	46.5	42.2
LD08-6982	55.4	59.8	53.4	59.1	57.8	49.0	56.6	65.0	26.5	49.8	48.8
LD08-12435a	58.6	58.2	53.3	69.4	63.8	47.5	55.6	67.4	40.4	53.5	39.9
HM09-W146	56.3	55.2	53.4	71.7	62.0	40.7	40.7	62.4	27.9	50.5	44.3
SD07CV-631	54.3	61.6	50.4	63.0	58.0	39.7	36.6	64.5	22.8	45.9	41.0
SD08CV-2102	55.6	51.2	49.9	75.1	65.2	41.7	42.6	62.5	14.2	49.7	40.7
U09-215057	55.0	48.7	50.0	77.9	57.2	40.2	41.0	61.5	30.7	48.2	35.8
U09-224078	53.8	56.9	44.9	77.0	56.2	41.6	42.4	54.1	24.3	48.5	34.1
U09-310098	57.8	56.4	50.3	72.4	60.7	46.2	50.5	66.6	29.4	49.0	42.2
U09-311114	57.5	58.0	48.9	63.0	63.7	50.0	47.3	60.1	39.1	51.8	45.9
U09-312115	59.1	62.1	48.9	70.0	54.0	48.5	52.0	59.4	36.3	48.8	40.1
U09-316113	58.0	60.0	44.9	60.1	63.3	47.3	51.9	68.2	37.0	49.6	36.4
U09-317120	58.1	60.7	50.1	66.4	64.4	44.0	43.2	64.0	23.9	53.4	47.6
Location Mean		57.3	50.8	69.0	60.0	43.6	47.0	63.3	28.9	50.1	41.8
C.V. (%)		7.9	10.2	9.0	11.2	10.4	11.5	8.3	30.5	4.5	9.8
L.S.D. (5%)		9.3	10.7	12.8	11.5	7.8	8.9	8.6	21.9	5.7	6.7
Row Sp. (In.)		27	27	30	30	30	30	30	15	15	30
Rows/Plot		4	4	4	4	4	4	4	6	6	4
Reps		2	2	2	2	2	3	3	2	2	3

*Data not included in mean.

UNIFORM TEST II, 2012

YIELD (bu/a)

Strain	Waseca MN	Beemer NE	Cotesfield NE	Phillips* NE	Hoytville OH	Wooster OH	Chatham ONT	Harrow ONT	Volga SD	Beresford* SD
IA 2102 (II)	60.3	47.2	102.9	80.0	61.0	54.0	87.3	57.6	39.3	19.9
IA1022 (SCN)	66.8	37.6	99.0	75.3	41.1	41.3	83.3	51.1	43.2	16.8
IA3024	56.0	51.4	88.5	82.1	59.7	50.4	79.8	55.8	37.4	16.8
LD02-4485 (SCN)	62.9	44.4	96.1	73.4	45.4	47.3	71.1	60.7	38.1	18.9
A09-755015	55.8	27.3	69.4	78.2	42.8	42.7	78.1	51.8	35.4	14.1
AR09-192019	60.1	42.3	107.1	80.4	52.2	48.1	78.2	58.5	40.2	17.8
AR09-292004	61.0	47.3	99.5	59.5	50.1	51.3	79.4	52.3	37.9	18.8
AR10-106008	58.0	35.6	88.3	65.4	52.1	50.7	81.1	54.6	40.0	18.1
AR10-206012	61.0	46.3	99.2	84.4	45.8	55.4	81.0	54.7	34.2	20.1
AR10-206073	55.4	44.3	93.6	91.0	56.4	53.7	78.6	54.3	35.1	23.2
AR10-206075	55.2	48.9	103.2	75.1	57.8	52.4	77.3	54.1	39.2	26.6
E09090	60.4	46.1	90.9	44.4	45.6	45.9	80.2	54.6	41.3	20.9
LD08-12428a	59.4	45.4	105.9	53.4	45.1	47.9	85.7	55.4	35.4	18.4
LD08-6982	56.6	46.7	90.8	52.7	39.2	42.8	72.2	57.4	36.2	16.7
LD08-12435a	62.7	46.8	88.7	56.6	53.3	56.1	81.5	62.5	36.5	19.0
HM09-W146	53.7	46.7	96.3	40.9	53.3	52.6	79.7	55.0	38.3	21.2
SD07CV-631	57.1	43.4	90.1	69.1	55.2	49.3	80.3	52.4	34.0	15.7
SD08CV-2102	57.2	44.9	89.9	57.9	58.1	52.0	76.1	53.8	35.4	23.2
U09-215057	51.8	46.5	93.0	50.7	63.5	52.1	78.3	54.4	34.8	21.0
U09-224078	55.8	47.6	90.5	74.3	54.3	50.0	71.6	54.2	34.2	18.9
U09-310098	61.5	45.0	92.4	67.3	64.9	54.3	76.5	57.6	36.7	20.7
U09-311114	56.2	49.6	96.3	70.7	54.7	58.5	78.7	60.0	35.6	18.4
U09-312115	59.2	52.4	98.6	79.8	70.9	67.5	79.6	59.1	33.8	20.2
U09-316113	62.4	46.4	97.8	62.7	71.5	53.0	78.8	59.8	35.4	20.7
U09-317120	61.3	49.6	99.6	45.9	60.7	55.9	76.2	52.7	37.4	22.9
Location Mean	58.7	45.2	94.7	66.9	54.2	51.4	78.8	55.8	37.0	19.6
C.V. (%)	10.3	6.4	5.4	21.6	15.1	7.9	6.4	4.4	7.4	16.2
L.S.D. (5%)	9.9	7.1	12.6	35.5	13.4	6.7	7.0	4.8	4.5	5.2
Row Sp. (In.)	30	30	30	30	7.5	7.5	17	18	30	30
Rows/Plot	4	4	4	4	8	8	5	5	4	4
Reps	3	2	2	2	3	3	3	3	3	3

UNIFORM TEST II, 2012

YIELD RANK

Strain	Yield Rank	Carlisle IA	Eldora IA	Boone IA	Dekalb IL	Urbana IL	Lafayette IN	Wanatah IN	Ingham County MI	Lenaweee County MI	Lamberton MN
IA 2102 (II)	1	6	2	7	4	24	15	22	5	1	4
IA1022 (SCN)	21	17	9	17	24	22	22	17	14	22	7
IA3024	12	1	20	5	15	17	11	9	9	5	17
LD02-4485 (SCN)	8	21	4	11	13	4	1	4	2	8	12
A09-755015	25	25	21	24	8	25	24	22	13	21	9
AR09-192019	11	14	5	18	22	10	4	11	8	14	14
AR09-292004	20	10	24	16	21	23	25	17	15	19	18
AR10-106008	24	22	25	22	14	21	21	13	23	10	8
AR10-206012	14	11	16	13	12	6	14	5	18	15	12
AR10-206073	15	19	10	6	2	7	6	19	24	7	22
AR10-206075	8	3	17	3	1	14	12	16	17	25	21
E09090	6	7	1	10	18	13	5	7	21	2	2
LD08-12428a	12	18	3	14	24	5	9	2	7	23	10
LD08-6982	18	9	6	25	17	2	2	8	16	11	1
LD08-12435a	3	12	8	14	6	7	3	3	1	3	20
HM09-W146	16	19	6	9	10	18	20	15	12	9	6
SD07CV-631	21	4	11	20	16	20	23	9	22	24	15
SD08CV-2102	17	23	15	4	3	15	17	14	25	12	16
U09-215057	19	24	14	1	19	19	19	20	10	20	24
U09-224078	23	15	22	2	20	16	18	25	19	18	25
U09-310098	7	16	12	8	11	10	10	6	11	16	10
U09-311114	10	13	18	20	7	1	13	21	3	6	5
U09-312115	2	2	18	12	23	3	7	24	6	17	19
U09-316113	5	8	22	23	8	9	8	1	4	13	23
U09-317120	4	5	13	19	4	12	16	12	20	4	3

UNIFORM TEST II, 2012

YIELD RANK

Strain	Waseca MN	Beemer NE	Cotesfield NE	Phillips NE	Hoytville OH	Wooster OH	Chatham ONT	Harrow ONT	Volga SD	Beresford SD
IA 2102 (II)	10	8	4	5	5	7	1	7	5	10
IA1022 (SCN)	1	23	8	8	24	25	3	25	1	17
IA3024	19	2	23	3	7	16	9	10	10	17
LD02-4485 (SCN)	2	19	13	11	21	21	25	2	8	12
A09-755015	20	25	25	7	23	24	18	24	15	20
AR09-192019	11	22	1	4	16	19	17	6	3	16
AR09-292004	7	7	6	17	18	14	12	23	9	13
AR10-106008	14	24	24	15	17	15	5	14	4	15
AR10-206012	7	14	7	2	19	5	6	13	18	9
AR10-206073	22	20	14	1	10	8	15	17	16	2
AR10-206075	23	5	3	9	9	11	19	19	6	1
E09090	9	15	17	24	20	22	8	15	2	6
LD08-12428a	12	16	2	20	22	20	2	11	15	14
LD08-6982	17	10	18	21	25	23	23	9	13	18
LD08-12435a	3	9	22	19	14	3	4	1	12	11
HM09-W146	24	11	11	25	14	10	10	12	7	4
SD07CV-631	16	21	20	13	11	18	7	22	19	19
SD08CV-2102	15	18	21	18	8	13	22	20	15	2
U09-215057	25	12	15	22	4	12	16	16	17	5
U09-224078	20	6	19	10	13	17	24	18	18	12
U09-310098	5	17	16	14	3	6	20	8	11	7
U09-311114	18	3	12	12	12	2	14	3	14	14
U09-312115	13	1	9	6	2	1	11	5	20	8
U09-316113	4	13	10	16	1	9	13	4	15	7
U09-317120	6	4	5	23	6	4	21	21	10	3

UNIFORM TEST II, 2012

MATURITY (date)

Strain	Mean 18 Tests	Carlisle IA	Eldora IA	Boone IA	Dekalb IL	Urbana IL	Lafayette IN	Wanatah IN	Ingham County MI	Lenaweee County MI	Lamberton MN
IA 2102 (II)	9/16	9/20	9/15	9/16	9/20	9/6	9/15	9/15	9/13	9/28	9/26
IA1022 (SCN)	-4.2	-5	-8	-8	-5	-4	-9	3	-2	-7	0
IA3024	7.4	7	3	6	8	12	15	6	8	2	2
LD02-4485 (SCN)	2.0	1	0	2	1	8	4	7	5	1	-2
A09-755015	-4.3	-6	-9	-5	-2	-5	-7	4	-1	-5	-3
AR09-192019	-1.9	-1	-5	-7	-5	4	4	2	0	-2	-5
AR09-292004	1.1	-1	-1	-1	-2	5	4	7	3	-1	-5
AR10-106008	-1.2	-3	-2	-7	-3	2	1	4	1	-4	-7
AR10-206012	3.3	3	1	2	0	10	4	4	5	3	-3
AR10-206073	2.1	2	1	2	-1	10	7	5	2	-1	-6
AR10-206075	1.1	-2	-1	-3	0	6	3	4	4	1	-3
E09090	0.6	3	-2	-1	1	4	1	7	1	-3	0
LD08-12428a	0.7	2	-1	-4	0	4	2	7	1	-1	-3
LD08-6982	4.4	4	3	-1	0	12	7	9	5	3	-1
LD08-12435a	3.5	5	2	1	1	9	4	10	5	2	-4
HM09-W146	4.6	0	3	5	2	10	15	10	7	0	-2
SD07CV-631	2.2	2	0	5	0	7	0	7	1	3	0
SD08CV-2102	2.5	2	-1	1	2	8	5	5	3	0	-3
U09-215057	3.6	4	3	2	2	10	10	6	8	0	-4
U09-224078	4.3	4	4	1	0	10	12	5	6	2	-1
U09-310098	4.7	6	6	3	1	9	8	5	9	3	1
U09-311114	6.2	8	5	6	4	11	10	8	9	3	1
U09-312115	5.5	7	6	2	4	11	9	3	8	3	0
U09-316113	5.7	7	4	5	1	11	15	8	4	4	1
U09-317120	3.3	5	3	-2	-2	9	8	9	5	1	0
Date Planted	5/14	5/14	5/7	5/10	5/16	5/15	5/14	5/17	5/10	6/4	5/17
Days to Mature	126	129	131	129	127	114	124	121	126	116	132

UNIFORM TEST II, 2012

MATURITY (date)

Strain	Waseca MN	Beemer NE	Cotesfield NE	Phillips NE	Hoytville OH	Wooster OH	Chatham ONT	Harrow ONT	Volga SD	Beresford SD
IA 2102 (II)	9/22	9/8	9/18		9/21	9/6	9/27	9/21		9/7
IA1022 (SCN)	-7	-5	0		-3	0	-6	-7		-3
IA3024	2	7	8		15	16	4	4		8
LD02-4485 (SCN)	-2	1	-3		9	5	-2	1		0
A09-755015	-7	-7	-2		-4	-1	-6	-4		-8
AR09-192019	-6	-1	-2		5	1	-8	-6		-3
AR09-292004	-2	1	5		7	1	-1	0		0
AR10-106008	-3	0	-2		7	6	-7	-3		-2
AR10-206012	1	1	3		13	11	0	3		0
AR10-206073	-2	1	2		12	8	-1	1		-4
AR10-206075	-3	1	5		8	4	-4	-1		0
E09090	-3	1	-3		0	7	1	-1		-2
LD08-12428a	-1	-1	0		8	0	0	0		-1
LD08-6982	2	3	8		13	10	1	3		-1
LD08-12435a	0	3	4		13	9	2	1		-2
HM09-W146	0	2	7		12	11	3	2		-4
SD07CV-631	3	1	3		8	6	2	0		-8
SD08CV-2102	1	3	5		10	4	-1	2		-1
U09-215057	-1	1	2		15	7	1	0		-1
U09-224078	0	4	7		15	8	0	2		0
U09-310098	1	3	5		15	8	2	1		0
U09-311114	2	5	8		13	13	4	2		0
U09-312115	2	6	7		15	15	0	2		-1
U09-316113	4	3	6		9	8	2	4		8
U09-317120	-1	2	5		12	6	-2	0		3
Date Planted	5/15	5/9	5/17	5/8	5/15	5/1	5/24	5/17	5/14	5/8
Days to Mature	130	122	124		129	128	126	127		122

UNIFORM TEST II, 2012

LODGING (score)

Strain	Mean 19 Tests	Carlisle IA	Eldora IA	Boone IA	Dekalb IL	Urbana IL	Lafayette IN	Wanatah IN	Ingham County MI	Lenaweee County MI	Lamberton MN
IA 2102 (II)	1.8	2.5	2.5	2.8	3.8	2.0	1.5	1.8	1.0	1.0	2.3
IA1022 (SCN)	1.5	2.0	2.0	3.3	2.0	2.0	1.3	1.3	1.0	1.0	2.0
IA3024	1.4	2.5	2.0	2.3	2.8	1.5	1.3	1.0	1.0	1.0	1.7
LD02-4485 (SCN)	1.4	2.0	2.0	2.5	2.5	1.8	1.2	1.0	1.0	1.0	1.7
A09-755015	1.5	2.0	2.0	2.5	2.8	1.5	1.0	1.2	1.0	1.0	2.0
AR09-192019	1.5	2.0	2.0	2.8	2.5	1.5	1.2	1.0	1.0	1.0	1.7
AR09-292004	1.4	1.8	2.3	2.0	2.3	1.3	1.0	1.0	1.0	1.0	1.3
AR10-106008	1.2	1.8	1.8	1.5	1.5	1.3	1.0	1.2	1.0	1.0	1.0
AR10-206012	1.4	2.0	1.8	2.0	3.0	1.5	1.0	1.3	1.0	1.0	1.3
AR10-206073	1.3	2.0	1.8	2.3	1.3	1.0	1.0	1.0	1.0	1.0	1.3
AR10-206075	1.3	2.0	1.8	1.8	2.0	1.0	1.0	1.7	1.0	1.0	1.3
E09090	1.3	1.8	2.0	2.0	2.5	1.3	1.0	1.0	1.0	1.0	1.7
LD08-12428a	1.3	2.0	2.3	2.0	2.5	1.3	1.0	1.3	1.0	1.0	1.7
LD08-6982	1.4	2.0	2.0	2.0	1.8	1.5	1.0	1.2	1.0	1.0	1.3
LD08-12435a	1.6	2.5	2.3	2.5	3.0	1.5	1.2	1.0	1.0	1.0	1.3
HM09-W146	1.5	2.0	2.0	2.3	2.8	1.8	1.0	1.2	1.0	1.0	1.7
SD07CV-631	1.5	2.3	2.0	3.3	2.5	1.8	1.2	1.2	1.0	1.0	1.7
SD08CV-2102	1.4	1.8	1.8	2.3	1.8	1.0	1.0	1.0	1.0	1.0	1.3
U09-215057	1.1	1.5	1.5	1.8	1.5	1.0	1.0	1.0	1.0	1.0	1.0
U09-224078	1.2	2.0	1.8	1.8	1.5	1.5	1.0	1.0	1.0	1.0	1.0
U09-310098	1.4	2.0	2.5	2.3	2.0	1.5	1.0	1.0	1.0	1.0	1.7
U09-311114	1.4	2.0	1.8	2.8	2.3	1.0	1.0	1.0	1.0	1.0	1.3
U09-312115	1.3	1.8	1.8	2.0	2.3	1.3	1.2	1.2	1.0	1.0	1.3
U09-316113	1.3	2.0	1.5	2.8	1.8	1.5	1.0	1.2	1.0	1.0	1.0
U09-317120	1.2	1.8	1.8	2.0	1.0	1.5	1.0	1.2	1.0	1.0	1.3

UNIFORM TEST II, 2012

LODGING (score)

Strain	Waseca MN	Beemer NE	Cotesfield NE	Phillips NE	Hoytville OH	Wooster OH	Chatham ONT	Harrow ONT	Volga SD	Beresford SD
IA 2102 (II)	1.0		2.0	1.0	1.0	1.0	2.0	1.0	3.0	1.0
IA1022 (SCN)	1.0		1.0	1.0	1.0	1.0	1.0	1.0	2.0	1.0
IA3024	1.0		1.0	1.0	1.0	1.0	2.0	1.0	1.0	1.0
LD02-4485 (SCN)	1.0		1.0	1.0	1.0	1.0	1.0	1.0	2.0	1.0
A09-755015	1.0		1.0	1.0	1.0	1.0	1.0	1.0	2.0	2.0
AR09-192019	1.0		1.0	1.0	1.0	1.0	1.0	1.0	3.0	1.0
AR09-292004	1.0		2.0	1.0	1.0	1.0	1.7	1.0	2.0	1.0
AR10-106008	1.0		1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
AR10-206012	1.0		2.0	1.0	1.0	1.0	1.0	1.0	2.0	1.0
AR10-206073	1.0		3.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
AR10-206075	1.0		3.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
E09090	1.0		1.0	1.0	1.0	1.0	1.0	1.0	2.0	1.0
LD08-12428a	1.0		1.0	1.0	1.0	1.0	1.3	1.0	1.0	1.0
LD08-6982	1.0		3.0	1.0	1.0	1.0	2.3	1.0	1.0	1.0
LD08-12435a	1.0		3.0	1.0	1.0	1.0	2.3	1.0	2.0	1.0
HM09-W146	1.0		2.0	1.0	1.0	1.0	2.0	1.0	1.0	1.0
SD07CV-631	1.0		1.0	1.0	1.0	1.0	2.0	1.0	1.0	1.0
SD08CV-2102	1.0		3.0	1.0	1.0	1.0	1.0	1.0	3.0	1.0
U09-215057	1.0		1.0	1.0	1.0	1.0	1.3	1.0	1.0	1.0
U09-224078	1.0		1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
U09-310098	1.0		2.0	1.0	1.0	1.0	1.7	1.0	1.0	1.0
U09-311114	1.0		3.0	1.0	1.0	1.0	2.0	1.0	1.0	1.0
U09-312115	1.0		1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
U09-316113	1.0		2.0	1.0	1.0	1.0	1.3	1.0	1.0	1.0
U09-317120	1.0		1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

UNIFORM TEST II, 2012

PLANT HEIGHT (inches)

Strain	Mean 16 Tests	Carlisle IA	Eldora IA	Boone IA	Dekalb IL	Urbana IL	Lafayette IN	Wanatah IN	Ingham County MI	Lenaweee County MI	Lamberton MN
IA 2102 (II)	36	40	42	36	45	38	37	37	28	35	39
IA1022 (SCN)	34	34	35	39	39	35	35	38	25	31	40
IA3024	36	43	38	40	44	37	39	41	27	36	39
LD02-4485 (SCN)	35	37	38	41	41	36	36	38	25	34	37
A09-755015	33	34	30	36	38	32	33	38	26	31	40
AR09-192019	32	32	34	34	37	32	35	38	24	32	32
AR09-292004	35	40	42	36	44	37	35	40	27	33	39
AR10-106008	31	31	31	29	38	32	34	39	23	31	35
AR10-206012	35	38	41	40	39	37	37	40	22	33	39
AR10-206073	34	35	39	42	42	33	36	42	19	32	36
AR10-206075	32	35	34	36	38	31	33	40	22	30	35
E09090	33	37	33	34	40	34	34	41	23	32	39
LD08-12428a	33	37	36	36	39	34	34	42	24	31	39
LD08-6982	36	42	41	40	41	37	38	43	26	37	40
LD08-12435a	34	37	37	38	39	36	34	41	27	32	37
HM09-W146	34	37	36	40	38	34	36	40	25	34	38
SD07CV-631	36	44	37	39	41	38	40	42	26	32	43
SD08CV-2102	34	35	39	42	40	34	35	41	21	34	39
U09-215057	34	38	37	40	41	34	33	42	24	33	33
U09-224078	34	42	39	27	41	37	36	38	25	33	35
U09-310098	38	41	43	40	45	40	40	42	32	37	44
U09-311114	37	42	42	44	45	40	40	39	29	37	42
U09-312115	33	35	36	41	39	35	34	36	25	32	35
U09-316113	36	41	38	44	40	38	40	41	24	36	36
U09-317120	33	35	36	42	36	34	34	40	21	33	38

UNIFORM TEST II, 2012

PLANT HEIGHT (inches)

Strain	Waseca MN	Beemer NE	Cotesfield NE	Phillips NE	Hoytville OH	Wooster OH	Chatham ONT	Harrow ONT	Volga SD	Beresford SD
IA 2102 (II)				41	29	23	40		36	26
IA1022 (SCN)				37	25	22	41		38	24
IA3024				41	31	25	40		34	26
LD02-4485 (SCN)				43	27	23	38		41	31
A09-755015				37	26	21	41		36	23
AR09-192019				35	26	23	38		34	22
AR09-292004				37	26	25	40		33	22
AR10-106008				29	25	22	38		31	23
AR10-206012				44	25	24	38		39	27
AR10-206073				40	26	23	40		37	26
AR10-206075				42	25	21	32		33	25
E09090				31	27	21	40		34	24
LD08-12428a				32	24	23	38		37	27
LD08-6982				38	27	23	36		40	26
LD08-12435a				32	26	25	36		34	29
HM09-W146				30	26	23	39		39	22
SD07CV-631				46	26	23	38		39	24
SD08CV-2102				34	28	23	38		37	24
U09-215057				35	29	23	39		41	28
U09-224078				44	27	24	35		36	26
U09-310098				44	29	25	44		41	28
U09-311114				35	31	25	41		40	27
U09-312115				38	29	25	37		34	23
U09-316113				44	31	25	37		38	31
U09-317120				32	27	24	37		34	28

UNIFORM TEST II, 2012

SEED QUALITY (score)

Strain	Mean 13 Tests	Carlisle IA	Eldora IA	Boone IA	Dekalb IL	Urbana IL	Lafayette IN	Wanatah IN	Ingham County MI	Lenaweee County MI	Lamberton MN
IA 2102 (II)	1.7			2.0	2.0	1.0	3.0	1.0			3.0
IA1022 (SCN)	1.7			2.0	2.0	2.0	1.5	1.0			3.0
IA3024	1.7			2.0	1.0	3.0	3.5	1.0			1.0
LD02-4485 (SCN)	1.6			3.0	1.0	2.0	2.0	1.0			2.0
A09-755015	1.8			2.0	2.0	2.0	2.0	1.0			2.0
AR09-192019	1.7			2.0	2.0	2.0	2.5	1.5			3.0
AR09-292004	1.9			2.0	2.0	2.0	3.5	1.0			2.0
AR10-106008	1.9			3.0	1.0	2.0	2.0	1.0			1.0
AR10-206012	1.4			2.0	1.0	2.0	1.5	1.0			1.0
AR10-206073	1.2			1.0	1.0	1.0	1.5	1.0			1.0
AR10-206075	1.4			2.0	1.0	2.0	1.5	1.0			3.0
E09090	1.6			2.0	1.0	2.0	2.5	1.5			2.0
LD08-12428a	1.5			2.0	1.0	2.0	2.0	1.0			2.0
LD08-6982	1.6			2.0	1.0	2.0	2.0	1.0			3.0
LD08-12435a	1.9			2.0	2.0	3.0	3.5	1.5			2.0
HM09-W146	1.5			2.0	1.0	2.0	2.0	1.0			2.0
SD07CV-631	1.5			2.0	1.0	1.0	2.0	1.0			2.0
SD08CV-2102	1.5			2.0	2.0	2.0	2.0	1.0			1.0
U09-215057	1.6			2.0	1.0	2.0	2.5	1.5			2.0
U09-224078	1.4			2.0	1.0	1.0	2.5	1.0			1.0
U09-310098	1.3			2.0	1.0	1.0	2.0	1.0			1.0
U09-311114	1.5			2.0	2.0	2.0	2.5	1.0			1.0
U09-312115	1.2			2.0	1.0	1.0	2.0	1.0			2.0
U09-316113	2.1			3.0	2.0	3.0	2.5	1.5			2.0
U09-317120	1.2			1.0	1.0	1.0	2.0	1.0			1.0

UNIFORM TEST II, 2012

SEED QUALITY (score)

Strain	Waseca MN	Beemer NE	Cotesfield NE	Phillips NE	Hoytville OH	Wooster OH	Chatham ONT	Harrow ONT	Volga SD	Beresford SD
IA 2102 (II)	1.0				1.0	2.0	1.0	1.0	1.0	3.0
IA1022 (SCN)	1.0				2.0	2.0	1.0	1.3	1.0	2.0
IA3024	1.0				2.0	1.0	1.0	1.7	1.0	3.0
LD02-4485 (SCN)	1.0				1.0	2.0	1.0	1.3	1.0	2.0
A09-755015	2.0				2.0	1.0	1.0	1.0	2.0	3.0
AR09-192019	1.0				2.0	2.0	1.0	1.0	1.0	1.0
AR09-292004	1.0				1.0	3.0	1.0	1.3	1.0	4.0
AR10-106008	2.0				2.0	1.0	1.0	2.0	3.0	4.0
AR10-206012	1.0				1.0	1.0	1.0	1.3	1.0	3.0
AR10-206073	1.0				1.0	1.0	1.0	1.0	1.0	3.0
AR10-206075	1.0				1.0	1.0	1.0	1.0	1.0	2.0
E09090	1.0				2.0	1.0	1.0	1.0	2.0	2.0
LD08-12428a	1.0				2.0	1.0	1.0	1.0	1.0	2.0
LD08-6982	1.0				1.0	1.0	1.0	1.0	2.0	3.0
LD08-12435a	1.0				2.0	1.0	1.0	1.0	2.0	3.0
HM09-W146	1.0				1.0	2.0	1.0	1.0	1.0	2.0
SD07CV-631	1.0				2.0	1.0	1.0	1.3	2.0	2.0
SD08CV-2102	1.0				1.0	1.0	1.0	1.0	2.0	3.0
U09-215057	1.0				1.0	1.0	1.0	1.0	2.0	3.0
U09-224078	1.0				1.0	2.0	1.0	1.0	1.0	3.0
U09-310098	2.0				1.0	1.0	1.0	1.0	1.0	2.0
U09-311114	2.0				1.0	1.0	1.0	1.0	1.0	2.0
U09-312115	1.0				1.0	1.0	1.0	1.0	1.0	1.0
U09-316113	1.0				1.0	2.0	1.0	1.7	3.0	3.0
U09-317120	1.0				1.0	1.0	1.0	1.0	1.0	2.0

UNIFORM TEST II, 2012

SEED SIZE (g/100)

Strain	Mean 19 Tests	Carlisle IA	Eldora IA	Boone IA	Dekalb IL	Urbana IL	Lafayette IN	Wanatah IN	Ingham County MI	Lenaweee County MI	Lamberton MN
IA 2102 (II)	15.6	16.6	15.3	17.8	17.8	12.9	13.0	13.4	15.2	15.2	16.4
IA1022 (SCN)	15.4	15.7	14.4	16.2	16.8	13.3	15.6	14.1	14.7	15.5	17.0
IA3024	16.6	17.0	15.6	18.6	18.2	16.0	17.0	14.1	15.4	15.5	16.8
LD02-4485 (SCN)	14.9	15.6	14.0	16.2	16.6	15.3	15.0	13.2	13.9	15.3	14.6
A09-755015	15.5	15.9	15.9	16.2	17.5	14.2	13.1	14.1	13.2	15.5	16.0
AR09-192019	15.6	15.3	14.8	15.6	17.3	15.0	15.0	14.8	15.1	15.8	16.2
AR09-292004	15.5	16.0	14.8	16.4	16.8	15.0	16.0	13.0	15.3	15.1	14.4
AR10-106008	15.1	15.6	14.9	16.8	16.1	14.1	13.7	13.4	12.8	15.0	15.2
AR10-206012	15.5	15.3	15.2	16.8	17.3	15.2	14.6	12.5	13.6	14.6	12.7
AR10-206073	14.0	13.4	13.0	14.4	14.0	14.4	15.0	12.7	11.9	13.6	12.4
AR10-206075	14.7	14.8	14.2	16.2	16.1	14.3	14.5	11.1	12.5	13.7	15.5
E09090	16.8	17.7	17.8	18.5	19.0	15.7	18.2	14.3	14.0	16.2	18.0
LD08-12428a	16.0	17.1	15.9	17.2	17.7	15.2	15.9	13.7	15.8	16.3	15.7
LD08-6982	14.7	15.2	14.1	13.2	16.2	16.1	15.7	13.5	14.0	13.6	14.7
LD08-12435a	15.5	16.7	15.1	16.3	17.3	15.2	15.8	14.4	15.2	15.8	13.4
HM09-W146	16.6	15.8	15.6	18.2	18.6	16.6	17.7	13.8	15.1	15.7	14.2
SD07CV-631	15.9	16.9	16.1	16.5	17.5	14.7	14.7	13.5	13.7	15.1	14.8
SD08CV-2102	14.9	14.9	14.5	16.2	16.7	14.4	15.1	12.6	12.5	13.9	12.8
U09-215057	15.7	15.3	15.2	17.1	18.1	15.2	15.3	13.8	12.8	15.1	14.9
U09-224078	13.1	13.1	12.3	13.8	13.9	13.0	13.7	11.4	11.1	13.2	11.3
U09-310098	14.8	14.6	13.6	15.6	15.4	13.5	16.0	13.0	13.3	15.2	14.5
U09-311114	16.0	16.1	14.6	15.2	18.1	15.5	17.1	12.8	15.1	15.2	15.6
U09-312115	12.9	13.0	12.4	13.9	15.0	11.4	13.9	10.1	11.9	12.3	11.7
U09-316113	14.6	14.9	13.7	15.5	16.7	13.6	14.8	13.1	13.1	14.8	13.0
U09-317120	12.5	12.2	11.7	11.3	13.1	11.6	13.7	10.4	10.9	13.0	12.5

UNIFORM TEST II, 2012

SEED SIZE (g/100)

Strain	Waseca MN	Beemer NE	Cotesfield NE	Phillips NE	Hoytville OH	Wooster OH	Chatham ONT	Harrow ONT	Volga SD	Beresford SD
IA 2102 (II)	13.3		17.6	15.8	16.0	16.5	18.4	17.9	13.2	14.4
IA1022 (SCN)	13.6		17.2	16.3	15.3	16.4	18.2	16.8	13.1	12.6
IA3024	13.8		17.4	17.5	18.0	18.8	20.2	18.7	12.9	14.2
LD02-4485 (SCN)	12.9		16.9	13.6	16.3	16.4	17.7	16.7	10.6	12.8
A09-755015	13.8		16.5	17.2	16.4	16.7	18.3	18.1	12.2	13.0
AR09-192019	13.4		17.1	17.2	16.5	16.1	18.7	16.7	12.9	13.0
AR09-292004	12.3		17.5	16.3	15.9	17.7	17.8	17.8	12.2	13.9
AR10-106008	12.1		16.5	15.1	15.8	16.8	20.0	16.8	12.4	13.8
AR10-206012	12.9		16.8	16.8	17.8	17.3	22.5	17.6	11.2	14.2
AR10-206073	12.0		15.5	15.0	15.5	15.9	17.1	15.1	12.4	11.9
AR10-206075	12.8		15.6	15.5	16.6	16.2	17.8	16.8	11.2	14.4
E09090	15.1		17.9	16.5	15.6	17.8	20.0	18.9	13.2	14.3
LD08-12428a	13.1		17.9	15.0	18.2	16.5	19.4	17.4	12.2	14.6
LD08-6982	12.1		16.1	13.7	16.3	16.5	17.5	15.4	12.4	12.8
LD08-12435a	13.5		16.0	15.0	16.7	16.5	19.2	17.2	12.4	13.8
HM09-W146	13.7		18.9	16.1	18.5	18.4	21.6	19.1	12.8	14.0
SD07CV-631	15.2		17.9	17.1	17.5	17.6	19.4	17.3	12.6	14.3
SD08CV-2102	14.0		16.8	14.5	17.6	16.7	18.1	17.2	11.5	14.0
U09-215057	14.8		17.7	16.4	18.2	17.5	18.4	16.7	12.9	13.6
U09-224078	12.0		14.0	13.7	14.7	15.0	14.8	14.2	11.5	11.6
U09-310098	13.3		16.5	14.6	17.5	15.7	18.0	17.1	11.8	12.1
U09-311114	15.1		17.5	16.1	17.6	17.8	20.0	18.3	12.6	14.6
U09-312115	12.1		14.5	13.4	14.6	14.4	15.8	13.9	10.4	10.3
U09-316113	13.8		17.2	14.2	16.7	15.9	17.6	16.5	9.7	12.9
U09-317120	10.5		13.9	12.6	14.6	13.6	15.3	13.4	12.7	11.4

UNIFORM TEST II, 2012

PROTEIN (%)

Strain	Mean 13 Tests	Boone IA	Carlisle IA	Dekalb IL	Urbana IL	Wanatah IN	Lamberton MN
IA 2102 (II)	34.5	35.7	32.5	35.1	33.6	34.7	33.9
IA1022 (SCN)	32.8	33.1	32.7	33.8	31.2	33.6	32.8
IA3024	34.1	34.0	31.8	35.0	32.4	34.4	33.4
LD02-4485 (SCN)	33.0	33.5	31.2	32.8	31.8	32.8	32.7
A09-755015	35.9	36.3	34.6	36.6	34.6	36.2	36.3
AR09-192019	35.2	36.7	34.2	35.4	33.8	35.3	35.0
AR09-292004	34.8	35.0	33.1	34.7	33.8	35.4	35.9
AR10-106008	34.1	34.5	32.2	34.7	32.2	34.9	33.9
AR10-206012	34.2	35.4	32.1	33.4	32.6	34.1	34.5
AR10-206073	34.0	33.6	33.0	33.5	32.1	34.3	34.3
AR10-206075	34.6	35.0	32.0	34.8	33.0	34.5	34.8
E09090	33.5	34.8	32.2	34.3	32.0	33.6	33.9
LD08-12428a	33.4	33.0	31.5	33.8	31.8	33.3	33.3
LD08-6982	33.2	34.3	32.0	32.2	32.5	33.3	32.5
LD08-12435a	33.2	33.0	31.0	33.1	32.0	33.2	34.3
HM09-W146	35.5	35.2	33.7	35.7	34.3	35.5	36.1
SD07CV-631	35.9	36.7	34.2	35.1	34.5	36.0	35.9
SD08CV-2102	34.9	35.0	34.0	34.5	33.3	34.9	35.5
U09-215057	33.3	32.7	30.2	33.4	31.8	33.9	33.5
U09-224078	33.6	32.6	32.4	32.3	32.0	34.1	34.4
U09-310098	33.3	34.2	31.3	32.8	31.8	33.2	33.5
U09-311114	33.2	34.2	31.4	33.7	31.4	33.9	33.2
U09-312115	32.6	32.9	30.7	32.9	30.6	32.4	33.8
U09-316113	32.7	33.2	30.5	32.8	30.6	33.2	32.6
U09-317120	33.7	34.3	32.6	33.6	31.6	34.3	32.6

UNIFORM TEST II, 2012

PROTEIN (%)

Strain	Waseca MN	Cotesfield NE	Phillips NE	Hoytville OH	Chatham* ONT	Harrow* ONT	Volga SD
IA 2102 (II)	34.7	33.4	34.5	34.4	35.8	34.4	35.7
IA1022 (SCN)	32.5	31.7	32.2	32.4	34.1	32.6	33.5
IA3024	34.4	33.3	34.5	35.1	35.6	33.5	35.7
LD02-4485 (SCN)	33.3	34.9	31.5	34.2	33.8	31.9	34.6
A09-755015	34.6	33.8	36.3	37.0	37.9	36.4	36.8
AR09-192019	35.3	33.4	35.1	35.7	36.5	34.6	36.3
AR09-292004	35.7	33.4	35.0	34.5	35.5	34.3	36.2
AR10-106008	35.7	32.3	33.8	34.4	35.5	34.2	35.6
AR10-206012	35.0	31.7	34.5	35.3	35.1	34.0	36.4
AR10-206073	35.2	32.9	33.0	34.3	35.1	33.6	36.7
AR10-206075	34.9	33.6	34.9	35.7	35.9	33.8	36.2
E09090	32.2	32.3	33.2	32.4	35.3	34.1	35.2
LD08-12428a	34.5	32.4	32.5	35.4	34.6	32.9	35.0
LD08-6982	33.5	32.9	32.4	34.5	33.9	32.4	35.9
LD08-12435a	33.7	30.9	33.0	34.9	34.3	32.6	35.5
HM09-W146	35.0	34.9	35.7	36.9	37.4	35.1	36.4
SD07CV-631	36.9	34.4	36.6	37.4	37.1	34.5	37.0
SD08CV-2102	35.6	33.7	33.6	36.1	36.0	34.5	37.4
U09-215057	34.1	32.3	33.1	35.5	34.9	31.7	35.7
U09-224078	34.5	32.8	33.1	34.7	34.6	32.3	36.9
U09-310098	33.9	32.1	32.4	34.9	34.5	32.0	35.8
U09-311114	32.9	32.6	32.3	34.4	33.7	31.3	36.2
U09-312115	32.8	31.2	32.9	33.0	33.7	31.1	35.8
U09-316113	32.9	32.0	31.9	34.6	33.4	31.5	36.0
U09-317120	33.5	32.5	33.6	35.2	34.9	33.1	36.6

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

UNIFORM TEST II, 2012

OIL (%)

Strain	Mean 13 Tests	Boone IA	Carlisle IA	Dekalb IL	Urbana IL	Wanatah IN	Lamberton MN
IA 2102 (II)	19.1	19.3	20.4	18.9	20.3	18.9	19.2
IA1022 (SCN)	20.5	20.9	20.8	20.3	22.2	20.2	19.8
IA3024	19.0	19.5	20.3	19.0	20.9	19.1	17.6
LD02-4485 (SCN)	19.5	19.7	20.8	19.9	21.1	19.5	18.3
A09-755015	18.5	18.9	19.4	18.5	20.1	18.5	17.1
AR09-192019	18.5	18.5	19.5	18.8	20.3	18.7	16.9
AR09-292004	19.0	19.3	20.0	19.4	20.2	18.6	17.4
AR10-106008	19.3	19.8	20.4	19.3	20.9	18.6	18.5
AR10-206012	20.0	20.1	21.1	20.8	21.6	19.9	19.4
AR10-206073	18.8	19.4	19.5	19.1	20.7	18.6	17.9
AR10-206075	19.5	19.9	20.7	19.6	21.5	19.3	18.7
E09090	19.1	19.4	19.8	18.8	20.8	19.0	17.8
LD08-12428a	19.4	20.0	20.6	19.5	20.9	19.2	18.8
LD08-6982	19.5	19.3	20.5	20.2	20.5	19.4	19.6
LD08-12435a	19.8	20.3	21.1	20.2	21.5	20.0	18.9
HM09-W146	19.2	19.6	20.1	19.6	21.0	19.1	18.1
SD07CV-631	18.6	18.7	19.6	19.4	20.0	18.6	18.5
SD08CV-2102	18.8	19.1	19.5	19.3	20.1	18.6	18.7
U09-215057	19.7	20.4	21.5	20.2	21.4	19.3	19.0
U09-224078	19.3	20.1	20.1	20.2	21.4	19.1	18.7
U09-310098	20.3	20.3	21.4	20.9	22.0	20.2	19.6
U09-311114	19.8	19.7	20.8	20.1	21.6	19.4	19.3
U09-312115	20.1	20.6	21.4	20.3	22.3	20.1	18.8
U09-316113	19.5	19.7	20.8	20.0	21.0	19.5	18.5
U09-317120	19.4	19.4	20.4	19.6	21.6	18.7	19.5

UNIFORM TEST II, 2012

OIL (%)

Strain	Waseca MN	Cotesfield NE	Phillips NE	Hoytville OH	Chatham* ONT	Harrow* ONT	Volga SD
IA 2102 (II)	18.0	19.1	19.3	19.5	18.3	19.1	18.1
IA1022 (SCN)	19.7	20.4	20.9	21.2	20.0	20.8	19.4
IA3024	17.9	18.6	19.3	19.5	18.4	19.5	17.5
LD02-4485 (SCN)	18.7	18.4	20.2	19.6	19.5	20.0	18.1
A09-755015	17.9	18.9	18.7	18.8	17.5	18.3	17.5
AR09-192019	17.6	19.0	18.5	18.7	18.0	19.0	17.5
AR09-292004	17.9	19.1	19.5	19.5	18.9	19.6	17.4
AR10-106008	17.6	19.5	19.7	20.1	19.1	19.6	17.6
AR10-206012	18.6	20.3	20.4	20.0	19.6	20.1	18.0
AR10-206073	17.8	18.9	19.2	19.1	18.5	18.9	16.4
AR10-206075	18.5	19.4	19.7	19.6	18.9	19.8	17.5
E09090	18.8	19.3	19.6	19.9	18.6	19.0	17.5
LD08-12428a	17.8	19.5	20.1	19.3	19.1	19.7	17.9
LD08-6982	18.7	19.4	19.9	19.3	19.4	19.8	17.1
LD08-12435a	18.8	20.3	20.3	19.6	19.3	20.2	17.5
HM09-W146	18.7	18.9	19.6	19.2	18.0	19.3	18.2
SD07CV-631	17.6	18.6	18.5	18.5	17.9	19.3	16.8
SD08CV-2102	17.9	19.0	19.4	18.6	18.4	18.9	16.5
U09-215057	18.4	19.9	20.3	19.3	19.3	20.3	17.3
U09-224078	18.2	19.2	19.8	19.3	18.8	19.9	16.4
U09-310098	19.0	20.2	21.4	20.1	20.3	21.3	17.9
U09-311114	19.4	19.1	20.3	19.9	19.5	20.7	17.4
U09-312115	19.0	19.9	20.7	20.5	20.3	21.1	16.9
U09-316113	18.7	19.5	19.7	19.7	19.5	20.4	16.4
U09-317120	18.6	19.3	20.1	19.5	19.1	19.8	16.8

Preliminary Test IIA, 2012

Ent.	Strain	Parentage	Seed Source	Gen. Comp.	Unique Traits
1	IA 2102 (II)	A04-545045 x AgriPro 98180-A01-0613	Fehr	F4	
2.	IA1022 (SCN)	Dairyland 98822 x A00-711024	Fehr	F5	SCN
3.	IA3024	A97-553017 x Pioneer YB33A99	Fehr		1% linolenic
4.	AR10-106014	AR04-874024 x Syngenta 03JR321086	Cianzio	F3	BSR
5.	AR10-206106	AR3 x Golden Harvest 24040	Cianzio	F4	IDC
6.	AR11-114003	AR05-250043 x IAR2001 BSR	Cianzio	F4	BSR
7.	AR11-214001	AR05-150102 x Syngenta 03JR321086	Cianzio	F5	BSR
8.	AR11-214019	AR06-264007 x Soygenetics F35170C	Cianzio	F4	IDC
9.	AR11-214022	AR06-264007 x Soygenetics F35170C	Cianzio	F4	IDC
10.	AR11-214023	AR06-264007 x Soygenetics F35170C	Cianzio	F4	IDC
11.	AR11-214035	Syngenta 04RM820808 x AR06-264007	Cianzio	F4	IDC
12.	AR11-214062	AR06-264025 x Soygenetics F35170C	Cianzio	F4	
13.	LD09-16058	LD01-7323(5) x [(LD01-7323(2) x PI 547875) x (LD01-7323(2) x PR33)]	Diers	F5	rust Rpp1
14.	LD09-30015	LD02-4485(5) x Ripley	Diers	F5	SDS
15.	LG10-1562	LG00-6925 x LG03-1614	Nelson	F6	genetic diversity
16.	LG10-1594	LG03-1534 x LD00-3309	Nelson	F6	genetic diversity
17.	LG10-1569	LG00-6925 x LG03-1614	Nelson	F6	genetic diversity
18.	SD09CV-2018	A02-381100-1538 x Dowling	Jiang	F5	Yield
19.	SD09CV-2038	IA1008 x Surge	Jiang	F5	Yield
20.	SD09CV-2085	M98-308007 x IA2073	Jiang	F5	Yield
21.	SD09CV-2095	M98-308007 x Surge	Jiang	F5	Yield
22.	SD09CV-2096	M98-308007 x Surge	Jiang	F5	Yield
23.	SD09CV-2116	Parker x Loda	Jiang	F5	Protein & yield
24.	SD09CV-2356	IA2068 x SDX98-76192	Jiang	F5	Yield
25.	SD09CV-2392	IA2073 x LDXG04023-1	Jiang	F5	Yield

PRELIMINARY TEST IIA, 2012

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	Shattering Score Manhattan KS
IA 2102 (II)	WGBDYYI	2.0
IA1022 (SCN)	PGTSYYI	1.0
IA3024	PGTDYIbI	1.0
AR10-106014	PTTDYBlI	1.0
AR10-206106	PGTDYIbI	1.0
AR11-114003	PTTDYBrI	1.0
AR11-214001	PTBDYBlI	1.0
AR11-214019	P+WTTIYBl+GI	1.0
AR11-214022	WTTDYBlI	1.0
AR11-214023	PTTDYBrI	1.0
AR11-214035	PLtBDYBlI	1.0
AR11-214062	PTBDYBlI	1.0
LD09-16058	PGTDYYI	1.0
LD09-30015	PGBDYBfI	1.0
LG10-1562	PTBIYBlI	1.0
LG10-1594	PGBDYLgI	1.0
LG10-1569	PTBSYBlI	1.0
SD09CV-2018	PT+GBDYBl+IbI	1.0
SD09CV-2038	PGBDYHI	1.0
SD09CV-2085	PT+GBDYBl+IbI	2.0
SD09CV-2095	PGBDYBfI	1.0
SD09CV-2096	PGBDYBf+IbI	1.0
SD09CV-2116	PGBDYIbI	1.0
SD09CV-2356	PGBDYIbI	1.0
SD09CV-2392	P+WLtTDYBl+BrI	1.0

PRELIMINARY TEST IIA, 2012

REGIONAL SUMMARY

Strain	Yield	Rank	Maturity	Lodging	Plant Height	Seed Quality	Seed Size	Composition	
								Protein	Oil
No. of Tests	9	9	12	12	10	9	12	9	9
	bu/a	No.	Date	Score	In.	Score	g/100	%	%
IA 2102 (II)	62.1	4	9/15	1.8	34	1.6	16.0	34.9	19.1
IA1022 (SCN)	56.7	14	-5.5	1.3	32	1.4	15.8	32.9	20.6
IA3024	60.9	7	6.5	1.3	34	1.9	16.7	34.5	19.0
AR10-106014	57.9	12	0.6	1.4	34	1.7	17.0	35.8	19.2
AR10-206106	59.8	9	-1.1	1.1	33	1.2	14.0	35.5	19.0
AR11-114003	59.3	11	1.9	1.5	31	1.8	16.6	34.9	19.5
AR11-214001	63.7	2	1.6	1.2	30	1.6	16.6	35.2	18.9
AR11-214019	60.1	8	-1.4	1.3	30	2.0	16.8	35.7	19.0
AR11-214022	63.5	3	-2.3	1.1	33	1.4	16.8	35.5	19.0
AR11-214023	61.4	6	-1.9	1.2	29	1.7	16.0	35.2	19.1
AR11-214035	56.7	14	-2.3	1.5	31	1.9	17.4	35.4	19.2
AR11-214062	57.7	13	-3.5	1.5	31	1.8	16.7	33.8	19.7
LD09-16058	59.4	10	-1.7	1.3	29	1.1	15.3	34.2	19.1
LD09-30015	64.3	1	2.3	1.5	31	1.6	14.4	33.0	19.8
LG10-1562	61.7	5	6.9	1.8	38	1.6	18.8	35.4	18.9
LG10-1594	55.1	17	2.2	1.6	36	1.8	14.6	35.2	18.3
LG10-1569	54.2	18	4.5	1.9	39	1.7	18.0	35.8	18.4
SD09CV-2018	48.0	24	-9.0	1.3	31	2.0	16.6	35.9	18.8
SD09CV-2038	56.0	16	-8.3	1.1	30	1.7	16.5	35.2	18.6
SD09CV-2085	45.9	25	-9.4	1.3	30	2.0	17.3	36.2	18.8
SD09CV-2095	48.4	23	-9.6	1.2	31	2.1	19.0	35.8	19.3
SD09CV-2096	49.7	22	-11.7	1.3	31	2.0	18.6	35.3	19.4
SD09CV-2116	51.0	20	-11.0	1.2	32	1.9	17.9	36.3	18.6
SD09CV-2356	54.1	19	-4.5	1.8	34	1.9	15.9	34.2	19.0
SD09CV-2392	50.6	21	-7.2	1.3	31	1.8	15.4	34.3	19.6

135.0 Days After Planting

PRELIMINARY TEST IIA, 2012

YIELD (bu/a)

Strain	Mean 9 Tests	Boone IA	Urbana* IL	Lafayette IN	Ingham* County MI	Beemer NE	Cotesfield NE
IA 2102 (II)	62.1	62.0	32.1	49.8	46.4	48.5	102.1
IA1022 (SCN)	56.7	60.9	33.7	45.5	27.7	38.8	95.7
IA3024	60.9	72.5	43.7	43.3	34.0	49.4	88.1
AR10-106014	57.9	62.5	37.6	44.0	22.8	44.5	92.4
AR10-206106	59.8	62.8	36.6	48.6	30.4	45.1	91.0
AR11-114003	59.3	64.7	39.1	53.7	44.3	42.2	93.8
AR11-214001	63.7	63.8	42.5	54.0	16.5	44.0	100.1
AR11-214019	60.1	66.2	38.1	52.7	50.3	38.5	90.4
AR11-214022	63.5	64.8	51.9	57.0	34.3	41.4	100.6
AR11-214023	61.4	68.1	45.8	48.3	30.2	44.4	101.6
AR11-214035	56.7	49.8	43.6	37.7	33.4	43.0	92.8
AR11-214062	57.7	60.0	39.7	35.0	30.3	39.4	106.7
LD09-16058	59.4	65.0	45.2	48.8	47.9	46.5	95.3
LD09-30015	64.3	61.9	42.9	62.8	44.5	49.1	94.8
LG10-1562	61.7	56.1	40.2	49.7	37.1	46.6	110.4
LG10-1594	55.1	58.9	43.0	42.2	25.2	44.4	85.0
LG10-1569	54.2	55.0	33.1	47.0	26.7	39.2	93.3
SD09CV-2018	48.0	53.9	21.0	21.5	25.1	35.0	70.1
SD09CV-2038	56.0	60.6	29.9	39.1	28.6	42.2	93.0
SD09CV-2085	45.9	48.9	22.5	25.1	22.0	27.4	74.3
SD09CV-2095	48.4	50.3	33.3	24.5	18.6	37.6	91.8
SD09CV-2096	49.7	52.5	24.9	22.1	17.5	36.6	99.8
SD09CV-2116	51.0	54.2	27.3	30.4	19.3	37.1	92.7
SD09CV-2356	54.1	55.7	40.2	48.6	45.5	41.0	82.1
SD09CV-2392	50.6	55.2	37.0	36.7	28.5	36.6	74.6
Location Mean		59.4	37.0	42.7	31.5	41.5	92.5
C.V. (%)		9.2	16.4	13.5	27.0	5.8	9.6
L.S.D. (5%)		11.3	10.4	11.9	21.1	6.0	21.9
Row Sp. (In.)		30	30	30	15	30	30
Rows/Plot		4	4	4	6	4	4
Reps		2	2	2	2	2	2

*Data not included in mean.

PRELIMINARY TEST IIA, 2012

YIELD (bu/a)

Strain	Phillips* NE	Hoytville OH	Wooster OH	Chatham ONT	Harrow ONT	Volga SD	Beresford* SD
IA 2102 (II)	70.6	66.7	55.0	79.4	58.1	37.5	19.2
IA1022 (SCN)	68.8	52.8	49.5	75.8	50.9	40.8	16.3
IA3024	75.4	67.5	59.0	81.0	51.9	35.2	19.3
AR10-106014	66.0	61.3	63.0	72.2	49.1	31.8	16.5
AR10-206106	65.8	66.8	55.9	75.1	56.0	37.3	17.6
AR11-114003	75.5	64.6	48.7	75.4	53.7	37.0	15.1
AR11-214001	66.9	72.7	56.6	84.8	56.8	40.6	16.3
AR11-214019	59.9	67.1	53.8	82.2	53.0	37.4	15.9
AR11-214022	85.2	74.2	52.2	88.6	51.4	41.7	18.6
AR11-214023	82.9	64.3	58.2	76.3	50.2	41.3	16.8
AR11-214035	52.5	66.8	47.7	81.5	53.1	38.0	16.3
AR11-214062	74.2	66.5	50.4	71.2	50.1	40.3	18.4
LD09-16058	81.3	61.4	42.5	78.2	54.2	43.1	16.5
LD09-30015	67.4	76.2	60.3	81.6	58.0	34.3	16.8
LG10-1562	59.1	74.3	60.8	73.8	54.4	29.7	18.4
LG10-1594	57.8	60.5	47.9	73.7	50.3	32.9	17.4
LG10-1569	63.6	61.8	46.4	67.8	46.2	31.1	17.8
SD09CV-2018	80.1	55.1	46.6	68.4	44.0	37.8	12.5
SD09CV-2038	71.1	57.3	50.5	74.0	47.1	40.3	16.1
SD09CV-2085	55.0	45.4	46.2	69.1	44.4	31.8	15.4
SD09CV-2095	74.0	46.9	38.7	61.3	42.9	41.6	16.4
SD09CV-2096	67.0	48.1	37.2	69.0	41.9	40.2	16.4
SD09CV-2116	58.4	50.8	44.3	66.2	46.1	37.2	17.0
SD09CV-2356	58.6	61.2	50.2	62.0	50.0	35.7	18.2
SD09CV-2392	50.5	53.5	41.1	71.0	49.4	37.3	16.4
Location Mean	67.5	61.8	50.5	74.4	50.5	37.3	16.9
C.V. (%)	18.4	8.0	13.1	5.6	4.8	4.7	13.1
L.S.D. (5%)	30.5	10.1	13.7	7.1	6.0	3.6	4.6
Row Sp. (In.)	30	7.5	7.5	17	18	30	30
Rows/Plot	4	8	8	5	5	4	4
Reps	2	2	2	2	3	2	2

PRELIMINARY TEST IIA, 2012

YIELD RANK

Strain	Yield Rank	Boone IA	Urbana IL	Lafayette IN	Ingham County MI	Beemer NE	Cotesfield NE
IA 2102 (II)	4	10	20	6	3	3	3
IA1022 (SCN)	14	12	17	13	16	18	8
IA3024	7	1	4	15	9	1	20
AR10-106014	12	9	14	14	20	7	16
AR10-206106	9	8	16	9	11	6	18
AR11-114003	11	6	12	4	6	12	11
AR11-214001	2	7	8	3	25	10	6
AR11-214019	8	3	13	5	1	19	19
AR11-214022	3	5	1	2	8	14	5
AR11-214023	6	2	2	11	13	8	4
AR11-214035	14	24	5	18	10	11	14
AR11-214062	13	14	11	20	12	16	2
LD09-16058	10	4	3	8	2	5	9
LD09-30015	1	11	7	1	5	2	10
LG10-1562	5	16	9	7	7	4	1
LG10-1594	17	15	6	16	18	9	21
LG10-1569	18	19	19	12	17	17	12
SD09CV-2018	24	21	25	25	19	24	25
SD09CV-2038	16	13	21	17	14	13	13
SD09CV-2085	25	25	24	22	21	25	24
SD09CV-2095	23	23	18	23	23	20	17
SD09CV-2096	22	22	23	24	24	22	7
SD09CV-2116	20	20	22	21	22	21	15
SD09CV-2356	19	17	9	10	4	15	22
SD09CV-2392	21	18	15	19	15	23	23

PRELIMINARY TEST IIA, 2012

YIELD RANK

Strain	Phillips NE	Hoytville OH	Wooster OH	Chatham ONT	Harrow ONT	Volga SD	Beresford SD
IA 2102 (II)	10	8	8	7	1	12	2
IA1022 (SCN)	11	20	14	10	12	5	13
IA3024	6	5	4	6	10	18	1
AR10-106014	15	14	1	16	18	21	11
AR10-206106	16	7	7	12	4	14	7
AR11-114003	5	10	15	11	7	16	17
AR11-214001	14	4	6	2	3	6	13
AR11-214019	18	6	9	3	9	13	15
AR11-214022	1	3	10	1	11	2	3
AR11-214023	2	11	5	9	14	4	10
AR11-214035	24	7	17	5	8	10	13
AR11-214062	7	9	12	17	15	7	4
LD09-16058	3	13	22	8	6	1	11
LD09-30015	12	1	3	4	2	19	10
LG10-1562	19	2	2	14	5	23	4
LG10-1594	22	16	16	15	13	20	8
LG10-1569	17	12	19	22	20	22	6
SD09CV-2018	4	18	18	21	23	11	18
SD09CV-2038	9	17	11	13	19	8	14
SD09CV-2085	23	24	20	19	22	21	16
SD09CV-2095	8	23	24	25	24	3	12
SD09CV-2096	13	22	25	20	25	9	12
SD09CV-2116	21	21	21	23	21	15	9
SD09CV-2356	20	15	13	24	16	17	5
SD09CV-2392	25	19	23	18	17	14	12

PRELIMINARY TEST IIA, 2012

MATURITY (date)

Strain	Mean 12 Tests	Boone IA	Urbana IL	Lafayette IN	Ingham County MI	Beemer NE	Cotesfield NE
IA 2102 (II)	9/15	9/15	9/4	9/15	9/18	9/8	9/24
IA1022 (SCN)	-5.5	-11	-4	-8	-5	-4	-9
IA3024	6.5	6	15	0	2	6	3
AR10-106014	0.6	-5	7	4	-4	0	-1
AR10-206106	-1.1	-6	3	-2	-3	-1	-1
AR11-114003	1.9	1	8	9	0	2	1
AR11-214001	1.6	-3	9	8	2	1	-5
AR11-214019	-1.4	-6	6	-1	-1	1	-2
AR11-214022	-2.3	-8	3	-1	-5	-1	-6
AR11-214023	-1.9	-5	4	-1	-4	1	-8
AR11-214035	-2.3	-7	0	-3	-4	-1	-4
AR11-214062	-3.5	-8	0	-9	-6	-5	-4
LD09-16058	-1.7	-7	6	-1	-2	-3	-7
LD09-30015	2.3	-1	9	4	1	2	0
LG10-1562	6.9	5	16	0	4	8	7
LG10-1594	2.2	-9	10	7	-1	-1	1
LG10-1569	4.5	5	12	11	1	3	1
SD09CV-2018	-9.0	-13	-9	-14	-10	-5	-12
SD09CV-2038	-8.3	-12	-10	-10	-9	-5	-12
SD09CV-2085	-9.4	1	-9	-17	-15	-8	-13
SD09CV-2095	-9.6	0	-10	-19	-11	-11	-11
SD09CV-2096	-11.7	-14	-11	-17	-15	-9	-12
SD09CV-2116	-11.0	-14	-9	-18	-14	-11	-10
SD09CV-2356	-4.5	-6	1	-2	-4	-5	-6
SD09CV-2392	-7.2	-13	0	-10	-6	-5	-10
Date Planted	5/3	5/10	5/15	5/15	5/10	5/9	5/17
Days to Mature	135	128	112	123	131	108	130

PRELIMINARY TEST IIA, 2012

MATURITY (date)

Strain	Phillips NE	Hoytville OH	Wooster OH	Chatham ONT	Harrow ONT	Volga SD	Beresford SD
IA 2102 (II)		9/23	9/9	9/27	9/21	9/10	9/6
IA1022 (SCN)		-2	-7	-7	-6	-2	-2
IA3024		14	14	7	5		1
AR10-106014		4	5	-3	0	0	0
AR10-206106		3	1	-5	-1		-1
AR11-114003		3	2	-1	-1	0	0
AR11-214001		6	4	-3	0	0	0
AR11-214019		3	-9	-7	-1	0	0
AR11-214022		5	-2	-7	-5	0	-2
AR11-214023		1	2	-8	-4	0	-1
AR11-214035		3	-3	-4	-5	0	0
AR11-214062		5	-3	-5	-5	-1	-2
LD09-16058		4	-4	-4	-1	0	-2
LD09-30015		7	2	2	-1		0
LG10-1562		9	14	6	7		0
LG10-1594		9	4	5	0		-1
LG10-1569		8	5	4	-1	0	6
SD09CV-2018		-5	-7	-15	-13	-3	-2
SD09CV-2038		-6	-9	-13	-10	-3	-1
SD09CV-2085		-6	-11	-17	-13	-3	-2
SD09CV-2095		-7	-9	-18	-8	-4	-8
SD09CV-2096		-7	-11	-17	-16	-3	-9
SD09CV-2116		-7	-9	-15	-13	-4	-9
SD09CV-2356		-6	-8	-6	-11	0	-1
SD09CV-2392		-4	-9	-13	-14	-1	-2
Date Planted	5/8	5/15	5/1	5/24	5/17	5/14	5/8
Days to Mature		131	131	126	127	119	121

PRELIMINARY TEST IIA, 2012

LODGING (score)

Strain	Mean 12 Tests	Boone IA	Urbana IL	Lafayette IN	Ingham County MI	Beemer NE	Cotesfield NE
IA 2102 (II)	1.8	3.0	1.5	1.5	1.0		3.0
IA1022 (SCN)	1.3	2.5	1.5	1.3	1.0		1.0
IA3024	1.3	2.3	1.3	1.0	1.0		1.0
AR10-106014	1.4	2.5	1.3	1.0	1.0		2.0
AR10-206106	1.1	2.3	1.0	1.0	1.0		1.0
AR11-114003	1.5	3.3	1.8	1.0	1.0		2.0
AR11-214001	1.2	2.0	1.5	1.0	1.0		1.0
AR11-214019	1.3	2.5	1.5	1.0	1.0		2.0
AR11-214022	1.1	1.8	1.5	1.0	1.0		1.0
AR11-214023	1.2	2.0	1.5	1.0	1.0		1.0
AR11-214035	1.5	2.0	2.0	1.0	1.0		1.0
AR11-214062	1.5	2.0	1.5	1.0	1.0		5.0
LD09-16058	1.3	3.0	1.5	1.0	1.0		2.0
LD09-30015	1.5	3.3	1.5	1.0	1.0		2.0
LG10-1562	1.8	2.3	1.8	1.5	1.0		4.0
LG10-1594	1.6	3.0	1.8	1.3	1.0		3.0
LG10-1569	1.9	2.5	1.8	1.8	1.0		3.0
SD09CV-2018	1.3	3.0	1.5	1.0	1.0		1.0
SD09CV-2038	1.1	2.3	1.0	1.0	1.0		1.0
SD09CV-2085	1.3	2.8	1.5	1.0	1.0		1.0
SD09CV-2095	1.2	2.5	1.3	1.0	1.0		1.0
SD09CV-2096	1.3	3.0	1.3	1.0	1.0		1.0
SD09CV-2116	1.2	3.0	1.0	1.0	1.0		1.0
SD09CV-2356	1.8	2.8	2.0	1.0	1.0		3.0
SD09CV-2392	1.3	3.0	1.3	1.0	1.0		1.0

PRELIMINARY TEST IIA, 2012

LODGING (score)

Strain	Phillips NE	Hoytville OH	Wooster OH	Chatham ONT	Harrow ONT	Volga SD	Beresford SD
IA 2102 (II)	1.0	1.0	1.0	2.0	1.0	4.0	1.0
IA1022 (SCN)	1.0	1.0	1.0	1.5	1.0	2.0	1.0
IA3024	1.0	1.0	1.0	1.5	1.0	2.0	1.0
AR10-106014	1.0	1.0	1.0	1.0	1.0	3.0	1.0
AR10-206106	1.0	1.0	1.0	1.0	1.0	1.0	1.0
AR11-114003	1.0	1.0	1.0	2.0	1.0	2.0	1.0
AR11-214001	1.0	1.0	1.0	1.0	1.0	2.0	1.0
AR11-214019	1.0	1.0	1.0	1.0	1.0	1.0	1.0
AR11-214022	1.0	1.0	1.0	1.0	1.0	1.0	1.0
AR11-214023	1.0	1.0	1.0	1.0	1.0	2.0	1.0
AR11-214035	1.0	1.0	1.0	1.5	1.0	4.0	1.0
AR11-214062	1.0	1.0	1.0	1.0	1.0	1.0	1.0
LD09-16058	1.0	1.0	1.0	1.5	1.0	1.0	1.0
LD09-30015	1.0	1.0	1.0	2.0	1.0	2.0	1.0
LG10-1562	2.0	1.0	1.0	2.5	1.0	3.0	1.0
LG10-1594	1.0	1.0	1.0	2.5	1.0	2.0	1.0
LG10-1569	2.0	1.0	1.0	3.0	1.0	4.0	1.0
SD09CV-2018	1.0	1.0	1.0	1.0	1.0	2.0	1.0
SD09CV-2038	1.0	1.0	1.0	1.0	1.0	1.0	1.0
SD09CV-2085	1.0	1.0	1.0	1.0	1.0	2.0	1.0
SD09CV-2095	1.0	1.0	1.0	1.0	1.0	2.0	1.0
SD09CV-2096	1.0	1.0	1.0	1.0	1.0	2.0	1.0
SD09CV-2116	1.0	1.0	1.0	1.0	1.0	1.0	1.0
SD09CV-2356	1.0	1.0	1.0	2.5	1.0	4.0	1.0
SD09CV-2392	1.0	1.0	1.0	1.0	1.0	2.0	1.0

PRELIMINARY TEST IIA, 2012

PLANT HEIGHT (inches)

Strain	Mean 10 Tests	Boone IA	Urbana IL	Lafayette IN	Ingham County MI	Beemer NE	Cotesfield NE
IA 2102 (II)	34	37	35	41	29		
IA1022 (SCN)	32	39	30	37	23		
IA3024	34	38	36	41	29		
AR10-106014	34	36	37	42	28		
AR10-206106	33	38	35	37	30		
AR11-114003	31	35	30	33	31		
AR11-214001	30	35	31	35	25		
AR11-214019	30	36	30	34	29		
AR11-214022	33	35	32	34	27		
AR11-214023	29	33	33	35	23		
AR11-214035	31	34	33	33	24		
AR11-214062	31	33	33	32	27		
LD09-16058	29	34	32	34	29		
LD09-30015	31	35	31	35	27		
LG10-1562	38	44	40	48	36		
LG10-1594	36	42	39	41	26		
LG10-1569	39	49	39	50	33		
SD09CV-2018	31	38	31	34	24		
SD09CV-2038	30	35	27	36	24		
SD09CV-2085	30	33	31	33	23		
SD09CV-2095	31	33	35	34	23		
SD09CV-2096	31	39	32	32	25		
SD09CV-2116	32	43	34	35	23		
SD09CV-2356	34	36	37	38	30		
SD09CV-2392	31	39	35	35	29		

PRELIMINARY TEST IIA, 2012

PLANT HEIGHT (inches)

Strain	Phillips NE	Hoytville OH	Wooster OH	Chatham ONT	Harrow ONT	Volga SD	Beresford SD
IA 2102 (II)	40	29	25	40		35	27
IA1022 (SCN)	42	25	20	41		37	25
IA3024	47	27	24	39		37	27
AR10-106014	40	27	31	36		40	25
AR10-206106	41	32	23	35		40	23
AR11-114003	36	26	23	39		32	25
AR11-214001	32	28	24	36		33	23
AR11-214019	33	24	20	35		35	25
AR11-214022	43	31	23	37		39	25
AR11-214023	29	25	27	36		30	21
AR11-214035	35	29	24	40		34	23
AR11-214062	42	27	22	38		33	21
LD09-16058	38	25	19	37		34	6
LD09-30015	40	26	22	36		37	24
LG10-1562	45	33	31	42		41	24
LG10-1594	41	32	28	40		40	32
LG10-1569	51	31	30	44		42	22
SD09CV-2018	37	26	21	38		34	32
SD09CV-2038	34	27	22	37		37	22
SD09CV-2085	38	24	23	38		32	24
SD09CV-2095	41	22	22	36		37	24
SD09CV-2096	40	26	19	38		34	23
SD09CV-2116	38	25	20	40		36	23
SD09CV-2356	37	29	25	42		41	25
SD09CV-2392	31	24	21	39		36	26

PRELIMINARY TEST IIA, 2012

SEED QUALITY (score)

Strain	Mean 9 Tests	Boone IA	Urbana IL	Lafayette IN	Ingham County MI	Beemer NE	Cotesfield NE
IA 2102 (II)	1.6	2.0	2.0	2.0			
IA1022 (SCN)	1.4	2.0	2.0	1.5			
IA3024	1.9	2.0	3.0	3.5			
AR10-106014	1.7	2.0	2.0	2.0			
AR10-206106	1.2	2.0	1.0	1.5			
AR11-114003	1.8	2.0	2.0	3.0			
AR11-214001	1.6	2.0	2.0	2.0			
AR11-214019	2.0	2.0	3.0	3.0			
AR11-214022	1.4	2.0	1.0	3.0			
AR11-214023	1.7	2.0	2.0	3.0			
AR11-214035	1.9	2.0	2.0	3.0			
AR11-214062	1.8	2.0	2.0	3.5			
LD09-16058	1.1	1.0	1.0	1.5			
LD09-30015	1.6	2.0	3.0	1.5			
LG10-1562	1.6	2.0	2.0	3.0			
LG10-1594	1.8	2.0	2.0	2.0			
LG10-1569	1.7	2.0	3.0	2.5			
SD09CV-2018	2.0	2.0	3.0	2.0			
SD09CV-2038	1.7	2.0	3.0	2.5			
SD09CV-2085	2.0	2.0	3.0	3.0			
SD09CV-2095	2.1	2.0	3.0	3.0			
SD09CV-2096	2.0	2.0	3.0	3.5			
SD09CV-2116	1.9	2.0	3.0	3.0			
SD09CV-2356	1.9	2.0	2.0	3.0			
SD09CV-2392	1.8	2.0	2.0	3.0			

PRELIMINARY TEST IIA, 2012

SEED QUALITY (score)

Strain	Phillips NE	Hoytville OH	Wooster OH	Chatham ONT	Harrow ONT	Volga SD	Beresford SD
IA 2102 (II)		1.0	2.0	1.0	1.0	1.0	2.0
IA1022 (SCN)		1.0	1.0	1.0	1.0	1.0	2.0
IA3024		1.0	2.0	1.0	1.5	1.0	2.0
AR10-106014		1.0	1.0	1.0	1.0	2.0	3.0
AR10-206106		1.0	1.0	1.0	1.0	1.0	1.0
AR11-114003		1.0	1.0	1.0	1.0	1.0	4.0
AR11-214001		1.0	1.0	1.0	1.0	1.0	3.0
AR11-214019		1.0	1.0	1.0	1.0	2.0	4.0
AR11-214022		1.0	1.0	1.0	1.0	1.0	2.0
AR11-214023		1.0	1.0	1.5	1.0	2.0	2.0
AR11-214035		1.0	2.0	1.0	1.0	2.0	3.0
AR11-214062		1.0	2.0	1.0	1.0	1.0	3.0
LD09-16058		1.0	1.0	1.0	1.0	1.0	1.0
LD09-30015		1.0	1.0	1.0	1.0	1.0	3.0
LG10-1562		1.0	1.0	1.0	1.0	2.0	1.0
LG10-1594		1.0	1.0	1.0	1.0	2.0	4.0
LG10-1569		1.0	1.0	1.0	1.0	2.0	2.0
SD09CV-2018		2.0	1.0	1.0	1.0	2.0	4.0
SD09CV-2038		2.0	1.0	1.0	1.0	1.0	2.0
SD09CV-2085		1.0	1.0	1.0	1.0	2.0	4.0
SD09CV-2095		2.0	2.0	1.5	1.5	1.0	3.0
SD09CV-2096		2.0	1.0	1.5	1.0	2.0	2.0
SD09CV-2116		2.0	1.0	1.0	1.0	2.0	2.0
SD09CV-2356		2.0	1.0	1.5	1.0	2.0	3.0
SD09CV-2392		2.0	1.0	1.0	1.0	1.0	3.0

PRELIMINARY TEST IIA, 2012

SEED SIZE (g/100)

Strain	Mean 12 Tests	Boone IA	Urbana IL	Lafayette IN	Ingham County MI	Beemer NE	Cotesfield NE
IA 2102 (II)	16.0	18.8	12.7	15.5	16.8		16.9
IA1022 (SCN)	15.8	16.4	12.7	14.3	15.5		18.7
IA3024	16.7	16.0	16.5	18.3	16.0		17.6
AR10-106014	17.0	17.5	15.3	16.8	14.8		18.7
AR10-206106	14.0	14.3	12.4	14.0	13.1		16.0
AR11-114003	16.6	17.4	14.9	17.9	15.8		17.5
AR11-214001	16.6	16.1	15.5	17.9	13.0		18.9
AR11-214019	16.8	17.1	15.4	17.5	17.7		18.4
AR11-214022	16.8	16.5	15.0	17.4	15.6		18.3
AR11-214023	16.0	15.1	14.2	15.5	16.8		17.6
AR11-214035	17.4	18.0	15.6	17.7	17.9		17.1
AR11-214062	16.7	17.1	13.2	14.8	15.8		18.8
LD09-16058	15.3	14.2	13.2	16.2	16.2		16.5
LD09-30015	14.4	13.7	14.4	14.2	15.2		15.0
LG10-1562	18.8	18.8	19.4	18.3	17.8		20.3
LG10-1594	14.6	14.4	14.4	15.5	13.1		16.5
LG10-1569	18.0	18.1	18.5	18.0	17.7		19.1
SD09CV-2018	16.6	16.5	13.7	15.3	15.1		17.4
SD09CV-2038	16.5	16.8	13.0	14.9	15.8		18.3
SD09CV-2085	17.3	18.6	15.0	16.9	15.9		18.8
SD09CV-2095	19.0	19.6	15.6	17.5	15.8		21.4
SD09CV-2096	18.6	20.1	14.6	16.6	15.7		21.0
SD09CV-2116	17.9	18.8	14.7	16.0	15.1		19.9
SD09CV-2356	15.9	16.9	13.8	15.6	15.6		17.0
SD09CV-2392	15.4	15.5	12.6	14.2	14.9		17.5

PRELIMINARY TEST IIA, 2012

SEED SIZE (g/100)

Strain	Phillips NE	Hoytville OH	Wooster OH	Chatham ONT	Harrow ONT	Volga SD	Beresford SD
IA 2102 (II)	16.3	16.9	18.6	19.1	17.2	10.9	12.6
IA1022 (SCN)	17.4	16.2	17.1	19.2	16.7	12.7	12.5
IA3024	17.1	17.1	18.5	19.5	18.2	12.6	13.2
AR10-106014	16.7	18.2	19.5	21.0	18.3	12.7	14.2
AR10-206106	14.1	14.2	14.2	16.6	15.6	11.5	11.8
AR11-114003	16.9	17.2	18.4	19.4	17.7	12.6	13.1
AR11-214001	16.5	18.4	17.0	21.1	18.3	13.3	13.6
AR11-214019	16.2	16.9	18.5	19.0	16.7	12.8	14.9
AR11-214022	18.0	17.6	18.4	20.4	17.5	13.1	13.8
AR11-214023	17.0	16.2	17.6	19.1	16.0	12.3	14.7
AR11-214035	17.5	18.3	18.8	20.8	18.8	12.9	15.4
AR11-214062	17.1	18.5	18.8	20.8	18.7	13.2	13.4
LD09-16058	15.1	17.0	15.9	19.0	16.8	13.0	10.9
LD09-30015	13.2	14.5	15.8	16.6	14.6	12.9	12.5
LG10-1562	18.3	19.6	21.8	22.3	20.8	13.4	14.7
LG10-1594	14.0	15.5	15.8	18.1	15.2	11.8	10.7
LG10-1569	17.7	18.2	19.1	21.2	18.8	13.2	16.3
SD09CV-2018	18.0	18.5	19.4	19.6	17.9	15.1	13.3
SD09CV-2038	19.0	17.0	19.0	20.0	18.3	14.6	11.3
SD09CV-2085	18.4	16.3	18.8	20.8	19.2	15.4	13.0
SD09CV-2095	20.5	20.4	22.4	21.3	22.2	16.9	13.9
SD09CV-2096	22.4	19.5	20.2	22.0	21.3	16.2	14.1
SD09CV-2116	19.7	19.9	18.5	22.0	19.9	15.4	15.2
SD09CV-2356	16.6	17.0	15.7	18.6	17.3	13.8	13.3
SD09CV-2392	15.7	16.1	16.5	18.0	16.7	13.8	13.3

PRELIMINARY TEST IIA, 2012

PROTEIN (%)

Strain	Mean 9 Tests	Boone IA	Urbana IL	Lafayette IN	Cotesfield NE	Phillips NE	Hoytville OH	Chatham* ONT	Harrow* ONT	Volga SD
IA 2102 (II)	34.9	36.6	34.2	34.8	34.5	33.5	35.5	35.8	34.3	35.6
IA1022 (SCN)	32.9	33.6	31.5	32.7	32.6	32.7	33.7	33.5	32.5	33.1
IA3024	34.5	33.3	32.8	36.8	34.3	33.6	36.0	34.9	33.8	34.6
AR10-106014	35.8	35.9	35.0	37.0	35.4	32.9	37.3	36.5	35.1	36.9
AR10-206106	35.5	35.1	34.5	36.0	34.9	34.2	35.8	36.7	35.4	36.8
AR11-114003	34.9	35.7	33.2	36.2	34.5	33.9	36.1	35.0	34.2	35.7
AR11-214001	35.2	35.8	34.1	36.3	34.4	33.5	36.8	35.9	34.2	35.7
AR11-214019	35.7	35.5	34.7	36.1	36.1	34.3	36.9	36.3	35.1	36.4
AR11-214022	35.5	35.7	33.7	35.9	34.5	35.2	36.8	36.5	35.1	36.2
AR11-214023	35.2	34.7	33.7	35.4	35.5	35.7	36.3	36.2	33.8	35.7
AR11-214035	35.4	35.3	33.8	34.4	35.1	36.1	36.2	36.3	34.6	36.6
AR11-214062	33.8	34.1	33.4	33.2	33.0	32.2	35.6	34.7	33.5	34.8
LD09-16058	34.2	33.6	32.1	34.9	33.1	32.1	35.8	36.7	34.9	34.9
LD09-30015	33.0	33.0	31.8	32.8	32.1	33.1	33.9	33.8	31.7	34.4
LG10-1562	35.4	35.4	35.0	37.6	34.6	32.8	36.2	35.8	34.5	36.7
LG10-1594	35.2	34.8	33.8	37.0	34.0	33.1	36.9	36.5	34.3	36.8
LG10-1569	35.8	35.4	36.0	37.6	34.6	32.9	36.7	36.5	34.8	37.2
SD09CV-2018	35.9	35.8	35.4	35.3	35.4	33.3	38.0	37.8	36.2	35.8
SD09CV-2038	35.2	34.5	35.5	34.3	35.9	33.2	35.7	38.1	34.7	35.2
SD09CV-2085	36.2	36.7	35.5	36.4	36.5	32.9	36.2	38.8	36.5	36.2
SD09CV-2095	35.8	36.6	34.9	35.2	35.7	33.4	36.9	37.1	36.8	35.4
SD09CV-2096	35.3	35.9	35.4	34.8	35.4	32.6	36.1	36.8	35.6	35.5
SD09CV-2116	36.3	36.7	36.2	35.6	37.0	32.7	37.7	37.9	36.3	36.3
SD09CV-2356	34.2	35.1	32.1	33.6	33.9	32.8	35.7	35.7	33.6	35.4
SD09CV-2392	34.3	34.1	33.6	33.6	33.4	33.8	35.0	35.5	34.5	35.3

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

PRELIMINARY TEST IIA, 2012

OIL (%)

Strain	Mean 9 Tests	Boone IA	Urbana IL	Lafayette IN	Cotesfield NE	Phillips NE	Hoytville OH	Chatham* ONT	Harrow* ONT	Volga SD
IA 2102 (II)	19.1	19.2	20.3	19.6	18.9	19.1	19.2	18.4	19.3	17.9
IA1022 (SCN)	20.6	20.8	21.7	21.0	20.4	20.0	20.6	20.4	21.1	19.5
IA3024	19.0	19.8	21.0	18.6	18.6	18.1	18.9	18.5	19.6	17.9
AR10-106014	19.2	19.6	20.4	19.2	18.6	19.9	19.1	18.6	19.5	17.7
AR10-206106	19.0	19.8	20.6	19.4	18.6	19.4	18.9	18.4	19.0	17.3
AR11-114003	19.5	19.7	21.2	19.6	19.0	19.3	19.5	19.5	20.3	17.8
AR11-214001	18.9	18.6	20.5	19.0	18.6	19.4	18.9	18.2	19.6	17.6
AR11-214019	19.0	19.5	20.1	19.3	18.7	18.5	18.6	18.8	19.3	17.9
AR11-214022	19.0	19.4	20.8	19.4	18.9	18.5	18.4	18.5	19.3	17.9
AR11-214023	19.1	19.9	21.0	19.4	18.8	17.1	18.9	18.6	20.0	18.1
AR11-214035	19.2	19.7	20.9	20.5	18.6	17.8	19.3	18.7	19.6	18.0
AR11-214062	19.7	20.2	20.4	20.5	19.7	19.4	19.3	19.3	19.9	18.1
LD09-16058	19.1	19.8	21.0	19.3	19.1	19.7	18.4	17.7	18.9	18.1
LD09-30015	19.8	20.3	21.4	20.2	19.7	19.3	19.6	19.4	20.3	18.1
LG10-1562	18.9	19.6	19.7	18.4	19.0	19.4	19.1	18.8	19.3	17.0
LG10-1594	18.3	19.1	19.8	18.2	17.7	19.2	17.6	17.4	18.6	16.8
LG10-1569	18.4	19.1	19.0	17.8	19.0	19.1	18.5	17.9	18.4	16.7
SD09CV-2018	18.8	19.2	19.9	19.4	18.6	19.3	18.3	17.8	18.6	18.1
SD09CV-2038	18.6	19.4	19.0	19.4	18.3	18.8	18.8	16.5	18.9	18.6
SD09CV-2085	18.8	19.3	19.8	19.2	18.4	19.0	19.1	17.5	18.7	18.0
SD09CV-2095	19.3	19.6	20.4	19.9	19.0	18.8	19.1	18.6	19.1	19.0
SD09CV-2096	19.4	19.6	20.0	19.8	18.8	19.3	19.3	18.9	19.7	19.0
SD09CV-2116	18.6	19.2	19.3	19.6	17.9	18.6	18.3	18.0	18.7	18.1
SD09CV-2356	19.0	19.2	20.6	19.7	18.7	18.9	19.1	17.9	19.1	17.7
SD09CV-2392	19.6	19.9	20.4	20.2	19.5	19.6	19.5	19.0	19.3	18.5

Preliminary Test IIB, 2012

Ent.	Strain	Parentage	Seed Source	Gen. Comp.	Unique Traits
1	IA 2102 (II)	A04-545045 x AgriPro 98180-A01-0613	Fehr	F4	
2.	IA1022 (SCN)	Dairyland 98822 x A00-711024	Fehr	F5	SCN
3.	IA3024	A97-553017 x Pioneer YB33A99	Fehr		1% linolenic
4.	E10169	U01-390489 x E00003	Wang	F5	
5.	E10254LL	IA2065 x IA2078	Wang	F5	1% linolenic
6.	E10265LL	IA2065 x IA2078	Wang	F5	1% linolenic
7.	HM09-W084	Dennison x HF03-546	McHale	F4	
8.	HM10-W314	IA 2065 x HS3-2669	McHale	F4	
9.	HR09-720	G00-3213 x Wyandot	Mian	F5	
10.	HR09-728	G00-3213 x Wyandot	Mian	F5	
11.	HR09-734	G00-3213 x Wyandot	Mian	F5	
12.	U09-118015	U01-190311 X U03-200317	Graef	F4	
13.	U09-121013	U01-190311 X U03-300134	Graef	F4	
14.	U09-133005	U02-242055 X U03-200317	Graef	F4	
15.	U09-133021	U02-242055 X U03-200317	Graef	F4	
16.	U09-135022	U03-200317 X U03-300134	Graef	F4	
17.	U09-137003	U03-200317 X U03-400435	Graef	F4	
18.	U09-202083	OAC 05-21 X U03-400435	Graef	F4	
19.	U09-210041	U01-190311 X U03-200317	Graef	F4	
20.	U09-210049	U01-190311 X U03-200317	Graef	F4	
21.	U09-210055	U01-190311 X U03-200317	Graef	F4	
22.	U09-211046	U01-190311 X U03-200317	Graef	F4	
23.	U09-211049	U01-190311 X U03-300134	Graef	F4	
24.	U09-213068	U01-190311 X U03-400435	Graef	F4	
25.	U09-220070	U02-242055 X U03-200317	Graef	F4	

PRELIMINARY TEST IIB, 2012

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	Shattering Score Manhattan KS
IA 2102 (II)	WGTDYYI	1.0
IA1022 (SCN)	PGTSYYI	1.0
IA3024	PGTDYIbI	1.0
E10169	PTBDYYH	1.0
E10254LL	PTBDYBlI	1.0
E10265LL	WTBDYBlI	1.0
HM09-W084	WGTDYIbI	1.0
HM10-W314	P+WG+TTDYHI	1.0
HR09-720	WGTDYBfI	1.0
HR09-728	WGTDYBfI	1.0
HR09-734	WGTDYBfI	1.0
U09-118015	PLtBDYBlI	1.0
U09-121013	WGBDYIbI	2.0
U09-133005	PLtBDYBlI	2.0
U09-133021	PLtBDYGI	1.0
U09-135022	PGBDYIbI	3.0
U09-137003	PTBDYBlI	1.0
U09-202083	PT+GBDYBrI	2.0
U09-210041	P+WGBDYIbI	3.0
U09-210049	P+WGBDYIbI	1.0
U09-210055	WGBDYYI	1.0
U09-211046	WGBDYBfI	2.0
U09-211049	PLtBDYBlI	1.0
U09-213068	P+WGBDYIbI	1.0
U09-220070	PGBDYIbI	1.0

PRELIMINARY TEST IIB, 2012

REGIONAL SUMMARY

Strain	Yield 9 bu/a	Rank 9 No.	Maturity 12 Date	Lodging 12 Score	Plant Height 10 In.	Seed Quality 9 Score	Seed Size 12 g/100	Composition Protein 9 %	Composition Oil 9 %
No. of Tests									
IA 2102 (II)	61.0	3	9/15	1.9	33	1.9	16.5	34.9	19.0
IA1022 (SCN)	55.4	19	-5.1	1.6	32	1.6	16.1	33.0	20.7
IA3024	58.6	7	6.8	1.4	34	1.9	16.9	34.7	18.9
E10169	55.8	17	-0.8	1.7	33	2.1	15.2	34.3	20.1
E10254LL	54.3	22	-1.3	1.1	29	1.6	15.7	34.9	19.8
E10265LL	57.2	13	-0.7	1.3	34	1.4	16.6	35.1	19.6
HM09-W084	59.4	4	-2.5	1.1	30	1.3	15.2	35.3	19.1
HM10-W314	55.6	18	5.0	1.2	33	1.8	15.5	35.3	19.1
HR09-720	57.4	12	11.1	1.2	35	1.8	18.0	36.8	18.2
HR09-728	57.8	11	11.8	1.4	35	2.3	17.0	36.3	18.2
HR09-734	54.5	21	11.5	1.3	35	2.3	16.7	36.2	18.0
U09-118015	56.7	15	-4.0	1.1	31	1.6	14.4	33.1	19.7
U09-121013	54.0	23	-4.7	1.3	32	1.9	14.0	33.5	19.8
U09-133005	62.8	1	1.8	1.1	34	1.6	15.0	33.7	19.9
U09-133021	61.2	2	0.5	1.7	32	1.9	14.7	33.6	20.0
U09-135022	56.2	16	1.4	1.2	31	1.7	13.0	33.9	19.5
U09-137003	54.8	20	-2.2	1.1	30	1.7	15.4	34.1	19.3
U09-202083	59.4	4	-0.2	1.2	32	1.6	14.8	34.2	19.3
U09-210041	51.4	25	-2.8	1.2	30	1.6	15.2	33.3	19.5
U09-210049	58.2	8	1.1	1.0	32	1.3	14.2	33.9	19.3
U09-210055	56.8	14	-3.4	1.5	33	1.4	15.5	33.4	19.6
U09-211046	52.7	24	-4.6	1.2	31	1.7	14.4	33.1	19.5
U09-211049	59.3	6	2.1	1.4	32	1.7	16.2	33.8	19.1
U09-213068	57.9	10	-4.5	1.1	32	1.3	14.6	33.1	19.5
U09-220070	58.1	9	0.6	1.1	33	1.6	16.0	34.9	19.7

125.5 Days After Planting

PRELIMINARY TEST IIB, 2012

YIELD (bu/a)

Strain	Mean 9 Tests	Boone IA	Urbana* IL	Lafayette IN	Ingham* County MI	Beemer NE	Cotesfield NE
IA 2102 (II)	61.0	66.9	40.4	46.3	56.7	51.4	99.7
IA1022 (SCN)	55.4	63.7	42.4	46.3	49.3	37.5	102.5
IA3024	58.6	73.5	40.5	47.4	36.1	49.4	93.4
E10169	55.8	58.3	29.8	46.0	31.4	41.3	92.8
E10254LL	54.3	66.9	31.7	43.1	40.7	40.8	82.8
E10265LL	57.2	62.6	34.8	46.7	41.8	39.6	91.2
HM09-W084	59.4	62.0	36.6	49.5	40.7	44.7	100.2
HM10-W314	55.6	66.3	36.7	46.8	39.3	39.7	86.5
HR09-720	57.4	57.3	38.7	47.6	43.4	44.3	92.8
HR09-728	57.8	72.4	33.7	53.8	56.0	45.0	92.7
HR09-734	54.5	55.1	35.1	48.6	33.1	45.7	78.3
U09-118015	56.7	68.5	35.5	42.1	42.6	40.2	95.6
U09-121013	54.0	65.2	37.3	37.2	37.3	30.3	80.9
U09-133005	62.8	72.9	47.0	49.0	39.1	47.0	90.1
U09-133021	61.2	72.0	41.0	45.8	36.4	38.6	95.3
U09-135022	56.2	73.1	43.2	40.8	26.3	36.4	97.8
U09-137003	54.8	72.6	39.7	43.1	42.8	36.0	88.8
U09-202083	59.4	63.5	35.2	40.2	44.9	43.1	96.2
U09-210041	51.4	55.2	35.0	26.8	38.7	26.0	96.5
U09-210049	58.2	69.0	40.4	40.4	39.4	48.3	103.8
U09-210055	56.8	66.5	37.5	33.8	37.6	32.5	94.7
U09-211046	52.7	61.3	29.6	35.3	37.2	29.8	85.0
U09-211049	59.3	64.7	30.7	37.5	37.1	48.9	97.0
U09-213068	57.9	66.3	29.6	37.8	29.8	49.5	100.4
U09-220070	58.1	65.6	36.6	42.2	33.2	38.0	92.0
Location Mean		65.6	36.7	43.0	39.6	41.0	93.1
C.V. (%)		6.4	19.7	11.4	18.1	7.4	9.0
L.S.D. (5%)		8.7	12.4	10.1	17.9	7.5	20.7
Row Sp. (In.)		30	30	30	15	30	30
Rows/Plot		4	4	4	6	4	4
Reps		2	2	2	2	2	2

*Data not included in mean.

PRELIMINARY TEST IIB, 2012

YIELD (bu/a)

Strain	Phillips* NE	Hoytville OH	Wooster OH	Chatham ONT	Harrow ONT	Volga SD	Beresford* SD
IA 2102 (II)	87.7	55.7	46.9	91.6	56.4	34.0	21.3
IA1022 (SCN)	68.3	50.6	36.6	74.8	44.1	43.1	7.2
IA3024	68.6	59.4	43.0	78.4	48.8	33.7	16.1
E10169	69.9	60.4	42.8	73.4	54.6	32.3	19.2
E10254LL	54.3	51.6	37.2	75.9	51.2	38.8	16.0
E10265LL	57.8	57.8	46.5	82.2	52.4	35.8	20.4
HM09-W084	74.3	70.5	42.2	71.7	56.5	37.6	20.5
HM10-W314	60.9	57.8	40.1	75.0	52.5	35.6	20.0
HR09-720	61.8	74.6	45.3	71.6	56.6	26.6	4.5
HR09-728	65.8	57.1	50.4	76.1	47.5	25.0	8.9
HR09-734	44.4	63.2	45.0	75.6	49.5	29.8	14.3
U09-118015	76.8	55.0	41.6	69.6	53.3	44.5	18.8
U09-121013	87.1	59.2	37.4	87.8	49.6	38.6	15.2
U09-133005	90.1	80.2	47.1	81.3	58.7	39.5	17.2
U09-133021	67.8	63.2	47.6	88.1	59.5	40.6	19.2
U09-135022	64.6	54.2	38.5	75.5	52.8	36.8	22.7
U09-137003	53.6	50.1	36.1	72.5	54.3	39.8	18.6
U09-202083	63.7	68.1	44.6	82.9	56.4	39.8	19.5
U09-210041	55.0	57.3	39.4	85.8	49.8	25.4	11.5
U09-210049	72.4	54.3	44.9	67.9	56.8	38.2	21.7
U09-210055	102.8	69.9	48.0	76.0	53.1	36.6	17.6
U09-211046	64.0	52.2	39.5	81.9	56.6	33.1	20.9
U09-211049	78.8	66.3	47.6	79.4	59.7	32.4	16.0
U09-213068	87.4	57.1	43.6	75.1	52.8	38.3	16.9
U09-220070	56.4	66.8	43.2	79.2	55.1	40.6	30.6
Location Mean	69.4	60.5	43.0	78.0	53.5	35.8	17.4
C.V. (%)	24.2	10.7	6.9	7.6	6.8	6.0	33.2
L.S.D. (5%)	41.3	13.3	6.2	10.1	9.0	4.4	9.9
Row Sp. (In.)	30	7.5	7.5	17	18	30	30
Rows/Plot	4	8	8	5	5	4	4
Reps	2	2	2	2	3	2	2

PRELIMINARY TEST IIB, 2012

YIELD RANK

Strain	Yield Rank	Boone IA	Urbana IL	Lafayette IN	Ingham County MI	Beemer NE	Cotesfield NE
IA 2102 (II)	3	9	6	10	1	1	5
IA1022 (SCN)	19	17	3	9	3	19	2
IA3024	7	1	5	6	20	3	13
E10169	17	22	23	11	23	12	14
E10254LL	22	9	21	13	9	13	23
E10265LL	13	19	19	8	8	16	18
HM09-W084	4	20	13	2	10	9	4
HM10-W314	18	12	12	7	12	15	21
HR09-720	12	23	9	5	5	10	15
HR09-728	11	5	20	1	2	8	16
HR09-734	21	25	17	4	22	7	25
U09-118015	15	8	15	16	7	14	10
U09-121013	23	15	11	22	16	23	24
U09-133005	1	3	1	3	13	6	19
U09-133021	2	6	4	12	19	17	11
U09-135022	16	2	2	17	25	20	6
U09-137003	20	4	8	14	6	21	20
U09-202083	4	18	16	19	4	11	9
U09-210041	25	24	18	25	14	25	8
U09-210049	8	7	6	18	11	5	1
U09-210055	14	11	10	24	15	22	12
U09-211046	24	21	24	23	17	24	22
U09-211049	6	16	22	21	18	4	7
U09-213068	10	12	24	20	24	2	3
U09-220070	9	14	13	15	21	18	17

PRELIMINARY TEST IIB, 2012

YIELD RANK

Strain	Phillips NE	Hoytville OH	Wooster OH	Chatham ONT	Harrow ONT	Volga SD	Beresford SD
IA 2102 (II)	3	15	5	1	8	15	4
IA1022 (SCN)	12	21	23	19	25	2	22
IA3024	11	10	13	11	23	16	16
E10169	10	9	14	20	11	19	10
E10254LL	23	20	22	14	19	6	17
E10265LL	20	12	6	6	18	13	7
HM09-W084	8	3	15	22	7	10	6
HM10-W314	19	12	17	18	17	14	8
HR09-720	18	2	7	23	5	21	23
HR09-728	14	14	1	12	24	23	21
HR09-734	25	8	8	15	22	20	19
U09-118015	7	16	16	24	13	1	11
U09-121013	5	11	21	3	21	7	18
U09-133005	2	1	4	8	3	5	14
U09-133021	13	8	3	2	2	3	10
U09-135022	15	18	20	16	15	11	2
U09-137003	24	22	24	21	12	4	12
U09-202083	17	5	10	5	9	4	9
U09-210041	22	13	19	4	20	22	20
U09-210049	9	17	9	25	4	9	3
U09-210055	1	4	2	13	14	12	13
U09-211046	16	19	18	7	6	17	5
U09-211049	6	7	3	9	1	18	17
U09-213068	4	14	11	17	16	8	15
U09-220070	21	6	12	10	10	3	1

PRELIMINARY TEST IIB, 2012

MATURITY (date)

Strain	Mean 12 Tests	Boone IA	Urbana IL	Lafayette IN	Ingham County MI	Beemer NE	Cotesfield NE
IA 2102 (II)	9/15	9/14	9/6	9/16	9/19	9/8	9/21
IA1022 (SCN)	-5.1	-7	-2	-8	-4	-5	-4
IA3024	6.8	4	11	10	5	4	6
E10169	-0.8	-3	-1	1	-3	-3	-1
E10254LL	-1.3	-3	2	-2	-1	-3	-3
E10265LL	-0.7	-1	2	-1	-1	-1	-3
HM09-W084	-2.5	-6	0	-2	-1	-1	-4
HM10-W314	5.0	4	9	9	2	1	5
HR09-720	11.1	7	18	14	6	9	11
HR09-728	11.8	9	17	17	8	7	9
HR09-734	11.5	8	16	19	6	8	9
U09-118015	-4.0	-6	0	-4	-3	-3	-6
U09-121013	-4.7	-6	-1	-5	-4	-6	-6
U09-133005	1.8	0	7	2	3	0	4
U09-133021	0.5	-1	4	0	1	-2	2
U09-135022	1.4	-1	7	3	0	1	1
U09-137003	-2.2	-6	4	-2	-2	-1	-3
U09-202083	-0.2	-3	2	-1	0	-1	1
U09-210041	-2.8	-6	1	-5	-3	-4	-2
U09-210049	1.1	-4	5	3	3	1	-1
U09-210055	-3.4	-5	1	-4	-3	-5	1
U09-211046	-4.6	-6	-3	-4	-5	-4	-7
U09-211049	2.1	0	5	3	0	2	5
U09-213068	-4.5	-6	-2	-7	-3	-4	-3
U09-220070	0.6	-2	4	4	2	0	-1
Date Planted	5/12	5/10	5/15	5/14	5/10	5/9	5/17
Days to Mature	126	127	114	125	132	122	127

PRELIMINARY TEST IIB, 2012

MATURITY (date)

Strain	Phillips NE	Hoytville OH	Wooster OH	Chatham ONT	Harrow ONT	Volga SD	Beresford SD
IA 2102 (II)		9/27	9/5	9/28	9/20	9/10	9/6
IA1022 (SCN)		-10	-3	-7	-10	-1	-1
IA3024		9	15	5	5		1
E10169		-2	1	-1	1		1
E10254LL		-4	4	-5	1		-1
E10265LL		-5	2	-2	2	-1	-1
HM09-W084		-3	0	-7	-3	-2	-2
HM10-W314		9	9	2	5		1
HR09-720		14	20	6	8		9
HR09-728		15	19	9	9		11
HR09-734		14	19	9	9		10
U09-118015		-5	-1	-11	-8	-1	-1
U09-121013		-10	-1	-10	-7	-1	0
U09-133005		-1	6	-3	2		0
U09-133021		0	4	-3	1	0	0
U09-135022		3	5	-3	1	0	0
U09-137003		-5	-1	-8	-3	0	0
U09-202083		2	2	-4	0		0
U09-210041		-1	-1	-9	0	-1	-2
U09-210049		2	5	-5	4	0	0
U09-210055		-4	-2	-10	-8	-2	0
U09-211046		-5	-2	-9	-7	-3	-1
U09-211049		3	2	1	2		1
U09-213068		-8	-1	-10	-8	0	-2
U09-220070		-4	5	-2	0	0	1
Date Planted	5/8	5/15	5/1	5/24	5/17	5/14	5/8
Days to Mature		135	127	127	126	119	121

PRELIMINARY TEST IIB, 2012

LODGING (score)

Strain	Mean 12 Tests	Boone IA	Urbana IL	Lafayette IN	Ingham County MI	Beemer NE	Cotesfield NE
IA 2102 (II)	1.9	3.5	2.5	1.5	1.0		2.0
IA1022 (SCN)	1.6	2.5	2.0	1.0	1.0		3.0
IA3024	1.4	2.0	1.3	1.0	1.0		3.0
E10169	1.7	3.5	1.5	1.3	1.0		2.0
E10254LL	1.1	2.0	1.0	1.0	1.0		1.0
E10265LL	1.3	2.5	1.5	1.3	1.0		1.0
HM09-W084	1.1	1.8	1.5	1.0	1.0		1.0
HM10-W314	1.2	2.0	1.0	1.0	1.0		1.0
HR09-720	1.2	2.0	1.0	1.0	1.0		1.0
HR09-728	1.4	2.3	1.0	1.0	1.0		3.0
HR09-734	1.3	2.5	1.0	1.3	1.0		1.0
U09-118015	1.1	1.8	1.0	1.0	1.0		1.0
U09-121013	1.3	2.0	1.5	1.0	1.0		1.0
U09-133005	1.1	2.3	1.3	1.0	1.0		1.0
U09-133021	1.7	2.0	1.8	1.0	1.0		5.0
U09-135022	1.2	1.5	1.5	1.0	1.0		2.0
U09-137003	1.1	1.8	1.3	1.0	1.0		1.0
U09-202083	1.2	2.5	1.5	1.0	1.0		1.0
U09-210041	1.2	2.0	1.3	1.0	1.0		1.0
U09-210049	1.0	1.5	1.0	1.0	1.0		1.0
U09-210055	1.5	2.8	2.0	1.3	1.0		2.0
U09-211046	1.2	2.5	1.3	1.0	1.0		1.0
U09-211049	1.4	2.3	1.0	1.0	1.0		2.0
U09-213068	1.1	2.0	1.0	1.0	1.0		1.0
U09-220070	1.1	2.0	1.3	1.0	1.0		1.0

PRELIMINARY TEST IIB, 2012

LODGING (score)

Strain	Phillips NE	Hoytville OH	Wooster OH	Chatham ONT	Harrow ONT	Volga SD	Beresford SD
IA 2102 (II)	1.0	1.0	1.0	2.0	1.0	5.0	1.0
IA1022 (SCN)	1.0	1.0	1.0	1.5	1.0	3.0	1.0
IA3024	1.0	1.0	1.0	2.0	1.0	2.0	1.0
E10169	1.0	1.0	1.0	2.5	1.0	4.0	1.0
E10254LL	1.0	1.0	1.0	1.0	1.0	1.0	1.0
E10265LL	1.0	1.0	1.0	1.5	1.0	2.0	1.0
HM09-W084	1.0	1.0	1.0	1.0	1.0	1.0	1.0
HM10-W314	1.0	1.0	1.0	1.5	1.0	2.0	1.0
HR09-720	1.0	1.0	1.0	1.5	1.0	2.0	1.0
HR09-728	1.0	1.0	1.0	1.5	1.0	2.0	1.0
HR09-734	1.0	1.0	1.0	3.0	1.0	1.0	1.0
U09-118015	1.0	1.0	1.0	1.0	1.0	1.0	1.0
U09-121013	1.0	1.0	1.0	1.0	1.0	3.0	1.0
U09-133005	1.0	1.0	1.0	1.0	1.0	1.0	1.0
U09-133021	1.0	1.0	1.0	1.0	1.0	3.0	1.0
U09-135022	1.0	1.0	1.0	1.0	1.0	1.0	1.0
U09-137003	1.0	1.0	1.0	1.0	1.0	1.0	1.0
U09-202083	1.0	1.0	1.0	1.0	1.0	1.0	1.0
U09-210041	1.0	1.0	1.0	1.0	1.0	2.0	1.0
U09-210049	1.0	1.0	1.0	1.0	1.0	1.0	1.0
U09-210055	1.0	1.0	1.0	1.0	1.0	3.0	1.0
U09-211046	1.0	1.0	1.0	1.0	1.0	1.0	1.0
U09-211049	1.0	1.0	1.0	1.0	1.0	3.0	1.0
U09-213068	1.0	1.0	1.0	1.0	1.0	1.0	1.0
U09-220070	1.0	1.0	1.0	1.0	1.0	1.0	1.0

PRELIMINARY TEST IIB, 2012

PLANT HEIGHT (inches)

Strain	Mean 10 Tests	Boone IA	Urbana IL	Lafayette IN	Ingham County MI	Beemer NE	Cotesfield NE
IA 2102 (II)	33	34	37	39	31		
IA1022 (SCN)	32	36	35	35	30		
IA3024	34	35	35	39	28		
E10169	33	32	30	39	29		
E10254LL	29	32	29	35	26		
E10265LL	34	34	34	39	31		
HM09-W084	30	31	30	35	29		
HM10-W314	33	37	34	39	26		
HR09-720	35	38	32	40	31		
HR09-728	35	37	32	41	33		
HR09-734	35	38	34	43	28		
U09-118015	31	31	31	36	28		
U09-121013	32	34	33	35	27		
U09-133005	34	37	37	38	26		
U09-133021	32	32	35	37	25		
U09-135022	31	36	33	34	26		
U09-137003	30	32	30	36	28		
U09-202083	32	37	30	36	28		
U09-210041	30	32	36	34	27		
U09-210049	32	33	32	41	27		
U09-210055	33	33	35	39	31		
U09-211046	31	35	31	37	27		
U09-211049	32	38	30	31	30		
U09-213068	32	33	30	37	26		
U09-220070	33	36	31	40	29		

PRELIMINARY TEST IIB, 2012

PLANT HEIGHT (inches)

Strain	Phillips NE	Hoytville OH	Wooster OH	Chatham ONT	Harrow ONT	Volga SD	Beresford SD
IA 2102 (II)	42	29	21	39		35	21
IA1022 (SCN)	39	24	21	40		39	21
IA3024	39	32	23	39		41	28
E10169	39	32	20	44		42	25
E10254LL	30	26	21	38		35	21
E10265LL	40	30	21	42		39	25
HM09-W084	32	28	19	36		36	22
HM10-W314	44	26	23	40		40	25
HR09-720	45	35	24	37		40	27
HR09-728	42	32	24	40		39	28
HR09-734	42	30	26	44		41	26
U09-118015	42	27	21	37		38	23
U09-121013	43	26	20	37		36	25
U09-133005	42	33	24	41		41	24
U09-133021	41	27	20	41		35	23
U09-135022	39	25	20	37		33	24
U09-137003	32	27	20	39		35	21
U09-202083	38	28	23	38		37	23
U09-210041	32	27	21	37		34	20
U09-210049	40	24	22	35		42	20
U09-210055	44	30	23	39		31	22
U09-211046	35	26	20	38		36	23
U09-211049	38	29	21	38		42	22
U09-213068	43	29	23	37		35	24
U09-220070	35	27	24	39		37	28

PRELIMINARY TEST IIB, 2012

SEED QUALITY (score)

Strain	Mean 9 Tests	Boone IA	Urbana IL	Lafayette IN	Ingham County MI	Beemer NE	Cotesfield NE
IA 2102 (II)	1.9	3.0	2.0	2.0			
IA1022 (SCN)	1.6	2.0	2.0	2.0			
IA3024	1.9	3.0	3.0	3.0			
E10169	2.1	3.0	3.0	2.0			
E10254LL	1.6	1.0	2.0	2.5			
E10265LL	1.4	2.0	2.0	2.0			
HM09-W084	1.3	2.0	1.0	1.5			
HM10-W314	1.8	2.0	3.0	1.5			
HR09-720	1.8	2.0	2.0	2.0			
HR09-728	2.3	2.0	2.0	1.5			
HR09-734	2.3	2.0	3.0	1.5			
U09-118015	1.6	2.0	2.0	1.5			
U09-121013	1.9	3.0	2.0	2.0			
U09-133005	1.6	2.0	2.0	2.0			
U09-133021	1.9	2.0	2.0	2.0			
U09-135022	1.7	2.0	2.0	2.0			
U09-137003	1.7	2.0	2.0	2.0			
U09-202083	1.6	1.0	2.0	2.5			
U09-210041	1.6	2.0	1.0	2.0			
U09-210049	1.3	1.0	1.0	2.0			
U09-210055	1.4	2.0	2.0	1.5			
U09-211046	1.7	2.0	2.0	2.0			
U09-211049	1.7	2.0	2.0	2.0			
U09-213068	1.3	1.0	2.0	1.5			
U09-220070	1.6	2.0	2.0	2.0			

PRELIMINARY TEST IIB, 2012

SEED QUALITY (score)

Strain	Phillips NE	Hoytville OH	Wooster OH	Chatham ONT	Harrow ONT	Volga SD	Beresford SD
IA 2102 (II)		2.0	2.0	1.5	1.0	1.0	3.0
IA1022 (SCN)		1.0	3.0	1.0	1.0	1.0	
IA3024		1.0	2.0	1.0	1.0	1.0	2.0
E10169		1.0	3.0	1.0	1.0	1.0	4.0
E10254LL		2.0	1.0	1.0	1.0	1.0	3.0
E10265LL		1.0	1.0	1.0	1.0	1.0	2.0
HM09-W084		1.0	1.0	1.0	1.0	1.0	2.0
HM10-W314		1.0	1.0	1.0	1.0	2.0	4.0
HR09-720		2.0	2.0	1.0	1.0	2.0	
HR09-728		2.0	1.0	1.0	3.0	3.0	5.0
HR09-734		2.0	1.0	1.0	2.0	3.0	5.0
U09-118015		1.0	1.0	1.0	1.5	1.0	3.0
U09-121013		1.0	1.0	1.5	1.5	1.0	4.0
U09-133005		1.0	1.0	1.5	1.5	1.0	2.0
U09-133021		1.0	2.0	1.0	1.0	2.0	4.0
U09-135022		1.0	1.0	1.0	1.5	1.0	4.0
U09-137003		1.0	1.0	1.0	1.0	1.0	4.0
U09-202083		1.0	1.0	1.0	1.0	1.0	4.0
U09-210041		1.0	1.0	1.0	1.0	1.0	4.0
U09-210049		1.0	1.0	1.0	1.0	1.0	3.0
U09-210055		1.0	1.0	1.0	1.0	2.0	
U09-211046		2.0	1.0	1.0	1.0	1.0	3.0
U09-211049		1.0	1.0	1.0	1.0	1.0	4.0
U09-213068		1.0	1.0	1.0	1.0	1.0	2.0
U09-220070		1.0	1.0	1.0	1.0	1.0	3.0

PRELIMINARY TEST IIB, 2012

SEED SIZE g/100

Strain	Mean 12 Tests	Boone IA	Urbana IL	Lafayette IN	Ingham County MI	Beemer NE	Cotesfield NE
IA 2102 (II)	16.5	18.9	13.7	16.4	17.6		18.5
IA1022 (SCN)	16.1	16.8	15.0	15.0	17.0		18.4
IA3024	16.9	19.1	17.7	17.4	16.4		19.0
E10169	15.2	16.4	12.9	14.7	13.9		17.4
E10254LL	15.7	16.6	14.5	15.3	15.7		17.5
E10265LL	16.6	18.5	15.2	16.6	17.4		18.8
HM09-W084	15.2	16.6	13.5	14.8	15.4		17.5
HM10-W314	15.5	16.1	15.0	16.6	14.9		16.8
HR09-720	18.0	17.4	20.2	18.5	17.2		19.2
HR09-728	17.0	18.5	18.7	17.6	17.6		19.0
HR09-734	16.7	16.7	17.8	18.1	15.5		19.2
U09-118015	14.4	15.5	12.8	14.2	14.6		15.9
U09-121013	14.0	16.0	12.8	13.8	12.6		15.5
U09-133005	15.0	15.9	13.9	14.8	15.7		16.5
U09-133021	14.7	15.7	13.3	14.3	14.3		16.3
U09-135022	13.0	13.0	11.5	13.9	11.8		15.2
U09-137003	15.4	16.4	14.0	14.7	15.2		16.3
U09-202083	14.8	16.8	12.8	13.9	15.9		15.9
U09-210041	15.2	16.8	13.7	14.3	15.0		16.8
U09-210049	14.2	14.5	12.0	16.1	14.7		15.6
U09-210055	15.5	16.7	13.5	15.0	14.6		18.9
U09-211046	14.4	16.5	13.0	14.0	14.1		16.6
U09-211049	16.2	17.3	15.8	14.0	17.2		18.0
U09-213068	14.6	15.5	12.4	14.8	13.9		17.5
U09-220070	16.0	17.5	14.8	16.5	13.9		17.8

PRELIMINARY TEST IIB, 2012

SEED SIZE g/100

Strain	Phillips NE	Hoytville OH	Wooster OH	Chatham ONT	Harrow ONT	Volga SD	Beresford SD
IA 2102 (II)	16.6	15.7	16.8	20.5	17.4	12.2	13.2
IA1022 (SCN)	17.5	14.7	16.0	18.4	16.0	12.4	
IA3024	16.1	17.1	17.6	19.1	17.5	12.1	14.2
E10169	16.8	15.4	16.5	18.0	16.8	12.0	12.2
E10254LL	16.0	15.5	17.5	18.7	17.7	11.5	11.9
E10265LL	16.8	15.8	17.6	20.8	13.9	13.1	14.3
HM09-W084	16.0	15.2	15.2	18.7	16.4	11.2	11.9
HM10-W314	15.3	16.2	16.4	18.2	16.9	11.2	12.2
HR09-720	17.1	17.5	19.6	20.0	18.9	12.6	
HR09-728	16.8	16.3	18.8	19.3	15.7	11.5	13.6
HR09-734	14.8	17.1	18.5	20.8	17.3	10.7	14.0
U09-118015	15.5	14.0	14.8	16.4	15.5	11.2	12.1
U09-121013	15.8	14.5	15.1	15.1	14.4	11.1	11.7
U09-133005	15.9	15.6	15.2	18.0	16.7	11.1	10.8
U09-133021	15.5	15.3	15.8	17.2	15.5	11.6	11.4
U09-135022	13.1	13.6	13.4	15.2	13.0	9.8	12.1
U09-137003	16.3	15.1	16.1	17.8	17.3	12.0	13.1
U09-202083	15.4	14.9	15.0	17.0	15.7	10.3	13.6
U09-210041	16.1	16.3	15.4	18.2	15.5	11.2	13.1
U09-210049	14.0	13.5	17.4	15.8	14.7	10.0	11.6
U09-210055	15.3	16.5	15.0	17.5	15.2	11.8	
U09-211046	14.6	13.3	14.8	16.7	15.4	11.5	12.8
U09-211049	16.5	17.2	14.3	19.7	17.9	12.2	13.9
U09-213068	15.7	14.3	15.3	16.7	15.8	11.4	12.4
U09-220070	15.9	16.7	16.4	19.4	17.7	12.2	12.7

PRELIMINARY TEST IIB, 2012

PROTEIN (%)

Strain	Mean 9 Tests	Boone IA	Urbana IL	Lafayette IN	Cotesfield NE	Phillips NE	Hoytville OH	Chatham* ONT	Harrow* ONT	Volga SD
IA 2102 (II)	34.9	36.6	33.7	34.3	33.5	35.0	35.0	36.1	34.4	36.0
IA1022 (SCN)	33.0	34.4	31.6	31.7	32.7	33.1	32.0	34.4	33.1	33.9
IA3024	34.7	35.2	33.7	36.5	33.6	32.1	36.1	35.2	34.4	35.2
E10169	34.3	35.8	34.0	34.6	32.9	34.0	34.3	34.5	33.3	34.8
E10254LL	34.9	35.4	33.7	35.0	34.2	34.6	34.8	35.3	35.6	35.8
E10265LL	35.1	36.0	34.3	35.3	33.9	34.3	34.1	36.5	35.6	35.6
HM09-W084	35.3	36.6	34.2	35.4	33.5	34.7	36.0	36.5	34.6	36.3
HM10-W314	35.3	35.5	34.0	36.7	34.3	33.8	37.1	35.5	35.0	35.8
HR09-720	36.8	36.8	36.0	38.2	35.2	35.6	38.6	37.3	35.9	37.2
HR09-728	36.3	35.5	35.1	37.2	35.7	34.8	38.6	37.0	36.2	36.5
HR09-734	36.2	35.5	35.5	38.0	36.1	36.0	36.9	35.7	34.6	37.4
U09-118015	33.1	34.3	31.6	33.4	32.2	32.6	33.3	33.8	32.4	34.2
U09-121013	33.5	35.4	31.5	32.8	32.1	33.7	33.5	34.5	33.8	34.4
U09-133005	33.7	35.1	31.8	33.8	33.1	33.3	34.0	34.5	32.5	35.5
U09-133021	33.6	35.5	31.8	34.0	32.8	32.2	34.8	33.7	32.4	35.0
U09-135022	33.9	34.2	31.5	34.9	33.1	32.6	34.2	34.7	33.6	36.6
U09-137003	34.1	34.8	32.8	34.2	32.9	33.5	34.4	34.5	33.7	35.9
U09-202083	34.2	35.6	31.5	34.1	33.3	33.9	35.2	35.2	33.6	35.3
U09-210041	33.3	34.7	31.7	33.0	33.2	32.7	34.8	33.6	32.3	34.2
U09-210049	33.9	34.8	32.6	34.2	32.9	33.3	34.3	34.5	33.3	35.4
U09-210055	33.4	35.5	31.6	32.5	33.4	31.7	34.5	34.2	32.5	34.9
U09-211046	33.1	34.8	32.0	33.1	32.6	31.6	32.6	33.5	32.7	35.3
U09-211049	33.8	35.3	32.7	34.2	32.7	32.5	34.3	34.5	32.5	35.3
U09-213068	33.1	34.1	32.6	31.7	32.8	31.8	32.7	33.7	32.9	35.6
U09-220070	34.9	36.1	33.9	36.1	33.8	33.3	35.4	35.2	33.9	35.9

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

PRELIMINARY TEST IIB, 2012

OIL (%)

Strain	Mean 9 Tests	Boone IA	Urbana IL	Lafayette IN	Cotesfield NE	Phillips NE	Hoytville OH	Chatham* ONT	Harrow* ONT	Volga SD
IA 2102 (II)	19.0	19.1	20.3	19.6	19.1	18.9	19.2	18.1	19.0	17.8
IA1022 (SCN)	20.7	20.4	22.1	21.6	20.0	20.6	21.3	20.2	20.6	19.1
IA3024	18.9	19.3	20.5	18.9	18.1	19.9	18.9	18.3	19.1	17.6
E10169	20.1	19.7	21.2	20.4	19.9	20.1	20.1	19.8	20.5	19.1
E10254LL	19.8	20.0	21.1	20.2	19.4	20.1	20.1	19.7	19.7	18.2
E10265LL	19.6	19.3	21.2	20.0	19.3	20.1	20.0	18.7	19.3	18.3
HM09-W084	19.1	19.2	20.5	19.5	19.4	19.4	19.0	18.5	19.2	17.4
HM10-W314	19.1	19.4	20.7	18.9	18.5	19.5	18.7	19.0	19.3	17.7
HR09-720	18.2	18.5	20.0	17.8	18.5	19.3	17.5	17.3	17.9	16.9
HR09-728	18.2	19.4	19.4	18.6	17.1	18.1	17.8	18.1	18.2	16.8
HR09-734	18.0	18.8	19.6	17.5	17.8	18.6	17.8	17.3	18.2	16.7
U09-118015	19.7	19.7	21.4	20.3	19.4	19.8	19.7	19.3	19.9	18.0
U09-121013	19.8	19.6	21.6	20.7	19.7	19.5	20.1	19.2	19.7	18.5
U09-133005	19.9	19.8	21.7	20.1	19.3	20.1	20.1	19.5	20.4	18.2
U09-133021	20.0	19.8	21.8	20.1	19.4	20.7	19.6	20.2	20.4	18.4
U09-135022	19.5	19.8	21.5	19.4	19.2	19.8	19.7	19.1	19.6	17.0
U09-137003	19.3	19.4	21.0	19.6	19.1	19.9	19.6	19.0	19.1	17.3
U09-202083	19.3	19.6	21.4	19.7	19.3	19.6	19.0	18.6	19.4	17.5
U09-210041	19.5	19.4	20.8	20.0	18.8	19.8	19.2	19.4	19.6	18.1
U09-210049	19.3	19.7	20.9	19.4	19.0	19.6	19.2	18.9	19.2	17.8
U09-210055	19.6	19.4	21.2	20.4	18.8	20.2	19.4	19.1	19.7	17.6
U09-211046	19.5	19.2	20.6	19.7	19.3	20.1	19.8	19.1	19.6	17.8
U09-211049	19.1	19.0	20.6	19.5	18.6	19.4	19.4	18.6	19.7	17.2
U09-213068	19.5	19.4	20.4	20.4	18.9	19.3	19.7	19.1	19.4	18.5
U09-220070	19.7	19.8	21.3	19.2	19.6	20.8	19.7	19.3	19.9	18.0

Uniform Test III, 2012

Ent.	Strain	Parentage	Seed Source	Previous Testing	Gen. Comp.	Unique Traits
1	IA3023 (III)	Dairyland DSR-365 x Pioneer P9381	Fehr	11	F5	
2.	IA3024	A97-553017 x Pioneer YB33A99	Fehr	5		1% linolenic
3.	IA3048 (SCN)	Dairyland 99540 x IA2068	Fehr	4	F4	SCN
4.	IA4005	IA3023 x IA3025	Fehr	2		1% linolenic
5.	AR10-306021	AR04-874013 x Syngenta 03JR321086	Cianzio	PTIIIA	F3	BSR
6.	LD07-3419	WW115926 x LD00-2817	Diers	1	F5	SCN
7.	LD07-4477	IA3023 x LD00-3309	Diers	1	F5	SCN
8.	LD08-1592	LD03-7607 x LD00-3309	Diers	SCN PTIIIB	F5	SCN
9.	LD08-2355	LD02-5320 x Dairyland 99805	Diers	PTIIIA	F5	SCN
10.	LD08-6972	LD03-10487 x LD02-4485	Diers	SCN PTIIIB	F5	SCN
11.	LD08-8622	M30121 x IA3024	Diers	PTIIIA	F5	SCN
12.	LG09-8545	F6 K1599 x LG02-3733	Nelson	PTIIIB	F6	Diversity

UNIFORM TEST III, 2012

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	Chlorosis Score Humboldt IA	Shattering Score Manhattan KS	Shattering Score Ottawa KS	Green Stem Score S. Charleston OH	SDS DX Valmeyer IL	SDS DX Shawneetown IL
IA3023 (III)	WLtTDYBlI	3.6	1.0	1.0	1.0	3	2
IA3024	PGTDYIbI	3.9	1.0	1.0	1.0	5	21
IA3048 (SCN)	WGBIYYI	3.6	1.0	1.0	1.0	8	2
IA4005	WLtTDYBlI	3.8	1.0	1.0	2.0	26	14
AR10-306021	WT+LtBDYBl+BrI	3.9	1.0	1.0	2.0	11	4
LD07-3419	WGTDYBfI	4.0	1.0	1.0	1.7	0	1
LD07-4477	PGTDYIbI	4.4	1.0	1.0	2.0	8	1
LD08-1592	PGBDYYI	4.0	1.0	1.0	1.0	1	0
LD08-2355	WGBIYBlI	3.8	1.0	1.0	1.3	1	1
LD08-6972	PGBDYIbI	4.1	1.0	1.0	1.0	0	1
LD08-8622	PGTDYIbI	3.1	1.0	1.0	2.0	1	1
LG09-8545	PTBDYBlI	4.6	1.0	1.0	2.3	7	4
LS05-0220(sus)						22	18
SS02-15897(res)						2	0
P>F						0.0106	0.17
LSD						12	ns

UNIFORM TEST III, 2012

REGIONAL SUMMARY

No. of Tests Strain	Yield 18 bu/a	Rank 18 No.	Maturity 15 Date	Lodging 16 Score	Plant Height 16 In.	Seed Quality 13 Score	Seed Size 17 g/100	Composition Protein 13 %	 Oil 13 %
IA3023 (III)	57.0	3	9/18	1.5	33	2.1	15.3	33.4	19.7
IA3024	53.8	10	-0.9	1.6	36	2.6	16.0	34.0	19.7
IA3048 (SCN)	54.0	9	0.3	1.8	35	2.1	15.2	34.8	19.2
IA4005	58.8	1	6.9	1.5	34	2.0	14.6	34.3	19.4
AR10-306021	52.9	11	-0.9	2.1	37	2.6	15.5	35.0	19.5
LD07-3419	58.2	2	7.0	1.6	32	2.3	15.3	32.8	20.0
LD07-4477	56.9	4	3.3	1.7	35	1.9	15.5	34.6	19.4
LD08-1592	55.9	6	0.3	1.5	34	2.0	15.2	34.7	19.2
LD08-2355	55.0	7	0.5	2.1	35	2.3	15.2	34.6	19.4
LD08-6972	49.4	12	-2.7	1.6	37	2.9	15.2	33.8	19.7
LD08-8622	56.5	5	3.1	2.0	38	2.5	15.3	34.8	19.6
LG09-8545	54.8	8	3.9	1.7	37	2.1	13.7	35.0	18.9

127.3 Days After Planting

UNIFORM TEST III, 2012

2011-2012 2-YEAR MEAN

No. of Tests Strain	Yield 36 bu/a	Rank 36 No.	Maturity 29 Date	Lodging 31 Score	Plant Height 31 In.	Seed Quality 27 Score	Seed Size 33 g/100	Composition Protein * %	 Oil * %
IA3023 (III)	61.1	4	9/22	1.5	33	1.8	15.3		
IA3024	59.9	6	-1.3	1.5	35	2.0	15.7		
IA3048 (SCN)	60.6	5	0.9	1.7	34	1.9	14.7		
IA4005	64.1	1	6.5	1.4	33	1.8	14.3		
LD07-3419	62.6	2	4.7	1.6	33	2.0	15.2		
LD07-4477	61.9	3	4.5	1.5	34	1.7	14.9		

126.8 Days After Planting

* **Note:** Protein & Oil Analysis by USDA Peoria, IL lab were not provided for Uniform Test III in 2011.

UNIFORM TEST III, 2012

YIELD (bu/a)

Strain	Mean 18 Tests	Carlisle IA	Greenfield IA	Crawfordsville IA	Arthur IL	Urbana IL	Lafayette IN	Wanatah IN	Butlerville IN
IA3023 (III)	57.0	64.1	56.6	63.4	29.6	41.3	42.9	66.7	41.5
IA3024	53.8	58.1	56.3	50.8	32.7	40.7	39.5	67.8	40.4
IA3048 (SCN)	54.0	58.3	61.6	58.4	30.3	47.4	53.8	62.6	44.2
IA4005	58.8	53.3	59.0	55.5	36.0	50.1	48.5	61.5	47.3
AR10-306021	52.9	56.5	53.3	60.3	28.9	44.4	47.5	64.5	39.5
LD07-3419	58.2	59.9	53.0	54.5	34.3	62.8	60.9	62.8	43.2
LD07-4477	56.9	56.1	66.5	61.1	30.5	46.5	51.3	64.6	43.4
LD08-1592	55.9	54.6	54.0	55.0	36.3	54.0	50.5	65.6	42.2
LD08-2355	55.0	54.4	54.1	59.1	24.2	54.9	48.2	73.9	39.6
LD08-6972	49.4	50.3	45.4	53.5	22.7	45.1	53.2	60.5	47.0
LD08-8622	56.5	53.4	54.0	52.8	41.2	48.6	50.0	61.3	42.0
LG09-8545	54.8	56.3	60.0	49.9	40.4	47.1	49.1	58.1	41.9
Location Mean		56.3	56.1	56.2	32.3	48.6	49.6	64.2	42.7
C.V. (%)		6.2	7.9	7.6	9.8	14.0	6.4	8.3	10.2
L.S.D. (5%)		7.7	9.8	9.3	5.7	12.2	5.4	9.1	7.4
Row Sp. (in.)		27	27	30	30	30	30	30	30
Rows/Plot		4	4	4	4	4	4	4	4
Reps		2	2	2	2	2	3	3	3

UNIFORM TEST III, 2012

YIELD RANK

Strain	Yield Rank	Carlisle IA	Greenfield IA	Crawfordsville IA	Arthur IL	Urbana IL	Lafayette IN	Wanatah IN	Butlerville IN
IA3023 (III)	3	1	5	1	9	11	11	3	9
IA3024	10	4	6	11	6	12	12	2	10
IA3048 (SCN)	9	3	2	5	8	6	2	8	3
IA4005	1	11	4	6	4	4	8	9	1
AR10-306021	11	5	10	3	10	10	10	6	12
LD07-3419	2	2	11	8	5	1	1	7	5
LD07-4477	4	7	1	2	7	8	4	5	4
LD08-1592	6	8	8	7	3	3	5	4	6
LD08-2355	7	9	7	4	11	2	9	1	11
LD08-6972	12	12	12	9	12	9	3	11	2
LD08-8622	5	10	8	10	1	5	6	10	7
LG09-8545	8	6	3	12	2	7	7	12	8

UNIFORM TEST III, 2012

YIELD (bu/a)

Strain	Manhattan KS	Ottawa KS	Columbia MO	Portageville (Clay) MO	Portageville (Loam) MO	Clay Center NE	Lincoln NE	Phillips NE	Hoytville OH	South Charleston OH
IA3023 (III)	72.1	21.4	46.8	43.7	43.3	94.8	88.2	92.4	53.6	63.1
IA3024	66.4	20.1	46.1	42.4	40.1	93.4	76.7	86.0	54.0	56.3
IA3048 (SCN)	61.8	20.9	57.0	46.0	39.3	69.2	75.4	80.4	45.1	60.3
IA4005	75.2	25.1	57.0	61.2	51.1	86.0	85.4	75.6	67.8	63.1
AR10-306021	63.1	18.9	47.7	41.5	44.7	77.2	73.7	74.6	53.8	61.7
LD07-3419	64.3	23.9	52.4	54.3	52.0	87.8	73.8	83.7	64.3	60.0
LD07-4477	69.9	23.9	46.0	57.9	51.4	79.5	82.8	71.0	58.4	63.4
LD08-1592	64.8	18.5	52.3	66.0	40.4	83.2	75.5	75.2	55.9	62.5
LD08-2355	70.3	15.8	36.7	44.7	46.2	77.0	78.6	92.7	57.0	62.7
LD08-6972	53.1	13.5	46.2	43.7	30.9	69.3	71.4	82.4	41.8	59.3
LD08-8622	61.1	24.7	46.1	64.9	52.1	88.1	79.0	84.3	53.6	60.3
LG09-8545	68.1	23.2	46.5	50.0	43.7	75.5	76.1	81.1	61.1	58.6
Location Mean	65.9	20.8	48.4	51.4	44.6	81.8	78.1	81.6	55.5	60.9
C.V. (%)	6.7	4.9	6.9	12.6	7.6	10.6	9.8	11.2	14.9	8.7
L.S.D. (5%)	7.5	1.7	5.6	13.3	7.0	21.5	19.0	22.8	14.0	5.2
Row Sp. (in.)	30	30	30	30	30	30	30	30	7.5	15
Rows/Plot	4	4	4	4	4	4	4	4	8	6
Reps	3	3	3	3	3	2	2	2	3	3

UNIFORM TEST III, 2012

YIELD RANK

Strain	Manhattan KS	Ottawa KS	Columbia MO	Portageville (Clay) MO	Portageville (Loam) MO	Clay Center	Lincoln NE	Phillips NE	Hoytville OH	South Charleston OH
IA3023 (III)	2	6	6	9	8	1	1	2	9	2
IA3024	6	8	9	11	10	2	6	3	7	12
IA3048 (SCN)	10	7	1	7	11	12	9	8	11	7
IA4005	1	1	1	3	4	5	2	9	1	2
AR10-306021	9	9	5	12	6	8	11	11	8	6
LD07-3419	8	3	3	5	2	4	10	5	2	9
LD07-4477	4	3	11	4	3	7	3	12	4	1
LD08-1592	7	10	4	1	9	6	8	10	6	5
LD08-2355	3	11	12	8	5	9	5	1	5	4
LD08-6972	12	12	8	9	12	11	12	6	12	10
LD08-8622	11	2	10	2	1	3	4	4	9	7
LG09-8545	5	5	7	6	7	10	7	7	3	11

UNIFORM TEST III, 2012

MATURITY (date)

Strain	Mean 15 Tests	Carlisle IA	Greenfield IA	Crawfordsville IA	Arthur IL	Urbana IL	Lafayette IN	Wanatah IN	Butlerville IN
IA3023 (III)	9/18	10/1		9/30	9/14	9/17	9/23	9/27	9/13
IA3024	-0.9	-3		-2	-3	1	-3	-1	0
IA3048 (SCN)	0.3	-3		-2	-1	3	5	-1	1
IA4005	6.9	3		5	1	8	11	7	12
AR10-306021	-0.9	-4		-3	-6	1	3	-1	-1
LD07-3419	7.0	2		3	8	11	14	6	12
LD07-4477	3.3	1		-2	0	7	4	6	3
LD08-1592	0.3	-3		-1	-1	4	5	-2	1
LD08-2355	0.5	-1		1	-7	7	6	1	1
LD08-6972	-2.7	-4		-4	-10	0	2	0	0
LD08-8622	3.1	0		5	2	9	6	2	5
LG09-8545	3.9	3		4	3	8	9	4	4
Date Planted	5/14	5/15		5/16	5/9	5/15	5/15	5/17	5/22
Days to Mature	127	139		137	128	125	131	133	114

UNIFORM TEST III, 2012

LODGING (score)

Strain	Mean 16 Tests	Carlisle IA	Greenfield IA	Crawfordsville IA	Arthur IL	Urbana IL	Lafayette IN	Wanatah IN	Butlerville IN
IA3023 (III)	1.5	2.0	1.5	2.0	2.0	1.0	1.0	1.3	1.0
IA3024	1.6	2.5	1.8	2.3	1.5	1.3	1.0	1.2	1.0
IA3048 (SCN)	1.8	2.0	2.0	2.5	1.5	1.3	1.0	1.5	1.0
IA4005	1.5	1.8	1.5	2.0	1.5	1.0	1.0	1.0	1.0
AR10-306021	2.1	2.5	2.0	3.0	1.8	2.0	1.0	1.7	1.0
LD07-3419	1.6	2.0	1.8	2.0	1.5	1.5	1.0	1.0	1.0
LD07-4477	1.7	2.0	1.5	2.3	1.5	1.0	1.0	1.3	1.0
LD08-1592	1.5	2.0	1.5	2.0	1.5	1.3	1.0	1.3	1.0
LD08-2355	2.1	2.5	1.8	2.5	2.5	2.3	1.0	1.7	1.0
LD08-6972	1.6	2.0	1.5	2.5	1.5	1.3	1.0	1.3	1.0
LD08-8622	2.0	2.5	2.0	2.5	2.3	1.5	1.0	1.7	1.0
LG09-8545	1.7	2.0	1.5	2.3	1.8	1.3	1.0	1.5	1.0

UNIFORM TEST III, 2012

MATURITY (date)

Strain	Manhattan KS	Ottawa KS	Columbia MO	Portageville (Clay) MO	Portageville (Loam) MO	Clay Center NE	Lincoln NE	Phillips NE	Hoytville OH	South Charleston OH
IA3023 (III)	10/5		9/10	9/9	9/3	9/16	9/18		9/12	9/23
IA3024	-4		1	0	-1	1	10		-7	-2
IA3048 (SCN)	-5		6	3	5	-1	0		-3	-3
IA4005	2		9	6	8	7	12		5	7
AR10-306021	-3		-0	-2	1	2	8		-5	-3
LD07-3419	3		12	3	6	4	13		5	4
LD07-4477	1		1	3	5	3	10		3	5
LD08-1592	-4		2	-2	3	-3	9		-2	-2
LD08-2355	-2		-1	2	3	-3	9		-5	-3
LD08-6972	-10		1	1	-1	-6	1		-8	-4
LD08-8622	-10		9	4	4	1	10		-1	1
LG09-8545	1		7	-1	3	2	5		1	6
Date Planted	6/4	5/29	5/16	4/23	5/1	5/11	5/18	5/8	5/15	5/11
Days to Mature	123		117	139	125	128	123		120	135

UNIFORM TEST III, 2012

LODGING (score)

Strain	Manhattan KS	Ottawa KS	Columbia MO	Portageville (Clay) MO	Portageville (Loam) MO	Clay Center NE	Lincoln NE	Phillips NE	Hoytville OH	South Charleston OH
IA3023 (III)	2.3	1.0	1.5	1.0	2.0	3.0			1.0	1.0
IA3024	3.0	1.0	1.5	2.0	2.0	2.0			1.0	1.2
IA3048 (SCN)	2.3	1.0	1.5	2.0	3.0	3.0			1.0	1.5
IA4005	2.0	1.0	1.7	2.0	3.0	1.0			1.0	1.0
AR10-306021	4.0	1.0	1.5	3.0	2.0	4.0			1.0	1.7
LD07-3419	2.0	1.0	1.7	2.0	2.0	3.0			1.0	1.3
LD07-4477	2.3	1.0	1.5	2.0	2.0	4.0			1.0	1.2
LD08-1592	2.3	1.0	1.5	2.0	2.0	1.0			1.0	1.2
LD08-2355	4.3	1.0	1.5	2.0	3.0	4.0			1.0	1.5
LD08-6972	3.0	1.0	1.5	2.0	2.0	2.0			1.0	1.7
LD08-8622	3.0	1.0	1.5	3.0	3.0	3.0			1.0	1.5
LG09-8545	3.7	1.0	1.5	2.0	2.0	2.0			1.0	1.7

UNIFORM TEST III, 2012

PLANT HEIGHT (inches)

Strain	Mean 16 Tests	Carlisle IA	Greenfield IA	Crawfordsville IA	Arthur IL	Urbana IL	Lafayette IN	Wanatah IN	Butlerville IN
IA3023 (III)	33	39	27	40	33	28	34	42	29
IA3024	36	42	33	43	33	38	36	44	34
IA3048 (SCN)	35	39	31	41	30	35	38	43	33
IA4005	34	37	26	39	30	31	33	41	30
AR10-306021	37	42	32	42	30	34	39	46	35
LD07-3419	32	37	28	40	28	35	34	40	24
LD07-4477	35	37	30	42	32	29	34	43	32
LD08-1592	34	41	27	42	34	37	36	45	33
LD08-2355	35	37	30	40	31	38	36	42	30
LD08-6972	37	44	31	42	30	35	38	46	36
LD08-8622	38	44	34	43	33	35	37	44	33
LG09-8545	37	43	31	44	35	34	35	48	33

UNIFORM TEST III, 2012

SEED QUALITY (score)

Strain	Mean 13 Tests	Carlisle IA	Greenfield IA	Crawfordsville IA	Arthur IL	Urbana IL	Lafayette IN	Wanatah IN	Butlerville IN
IA3023 (III)	2.1			3.0	2.0	2.0	1.5	1.0	2.0
IA3024	2.6			3.0	3.0	3.0	2.5	1.0	3.5
IA3048 (SCN)	2.1			4.0	3.0	2.0	1.5	1.0	2.0
IA4005	2.0			3.0	3.0	1.0	1.5	1.0	2.5
AR10-306021	2.6			4.0	3.0	2.0	1.5	1.0	2.5
LD07-3419	2.3			3.0	2.0	2.0	1.5	1.0	2.0
LD07-4477	1.9			3.0	2.0	2.0	1.5	1.0	2.0
LD08-1592	2.0			3.0	2.0	1.0	1.5	1.0	2.0
LD08-2355	2.3			3.0	2.0	2.0	2.0	1.0	2.5
LD08-6972	2.9			3.0	4.0	3.0	2.0	1.0	3.0
LD08-8622	2.5			3.0	3.0	2.0	2.0	1.0	4.0
LG09-8545	2.1			3.0	2.0	2.0	1.5	1.0	2.0

UNIFORM TEST III, 2012

PLANT HEIGHT (inches)

Strain	Manhattan KS	Ottawa KS	Columbia MO	Portageville (Clay) MO	Portageville (Loam) MO	Clay Center NE	Lincoln NE	Phillips NE	Hoytville OH	South Charleston OH
IA3023 (III)	44	26	29	21	30	45			29	38
IA3024	46	30	33	23	30	44			32	38
IA3048 (SCN)	44	29	33	23	27	45			30	38
IA4005	41	27	29	30	34	45			31	33
AR10-306021	46	28	31	34	31	49			31	38
LD07-3419	43	24	28	25	27	40			31	34
LD07-4477	42	27	30	34	35	48			31	38
LD08-1592	46	27	30	37	34	19			28	35
LD08-2355	44	27	30	29	28	45			30	37
LD08-6972	45	27	33	30	34	48			32	39
LD08-8622	43	31	34	36	36	49			31	38
LG09-8545	49	28	34	32	28	51			33	42

UNIFORM TEST III, 2012

SEED QUALITY (score)

Strain	Manhattan KS	Ottawa KS	Columbia MO	Portageville (Clay) MO	Portageville (Loam) MO	Clay Center NE	Lincoln NE	Phillips NE	Hoytville OH	South Charleston OH
IA3023 (III)	2.0	2.0	1.5	4.0	3.0				1.0	1.7
IA3024	3.0	3.0	1.5	3.0	2.0				2.0	2.7
IA3048 (SCN)	2.0	2.0	1.7	3.0	2.0				1.0	2.0
IA4005	3.0	2.0	1.5	3.0	2.0				1.0	1.7
AR10-306021	3.0	3.0	2.2	4.0	3.0				1.0	3.0
LD07-3419	2.0	4.0	1.8	4.0	3.0				1.0	2.3
LD07-4477	2.0	2.0	1.5	2.0	2.0				1.0	2.7
LD08-1592	3.0	2.0	1.5	2.0	2.0				2.0	2.7
LD08-2355	4.0	2.0	1.5	3.0	3.0				1.0	2.3
LD08-6972	4.0	3.0	2.0	5.0	4.0				2.0	2.3
LD08-8622	4.0	2.0	2.0	3.0	3.0				1.0	2.3
LG09-8545	3.0	2.0	1.7	3.0	3.0				1.0	2.7

UNIFORM TEST III, 2012

SEED SIZE (g/100)

Strain	Mean 17 Tests	Carlisle IA	Greenfield IA	Crawfordsville IA	Arthur IL	Urbana IL	Lafayette IN	Wanatah IN	Butlerville IN
IA3023 (III)	15.3	16.1	18.2	15.2	10.3	16.7	14.8	12.7	13.2
IA3024	16.0	16.4	18.7	15.8	13.5	17.1	14.5	13.8	15.2
IA3048 (SCN)	15.2	14.2	16.9	14.2	12.1	17.9	15.5	13.7	12.5
IA4005	14.6	15.5	17.8	14.4	11.3	16.4	13.8	11.4	13.5
AR10-306021	15.5	16.2	17.6	15.5	11.1	16.5	15.0	14.2	14.1
LD07-3419	15.3	15.0	16.6	14.1	14.7	17.7	15.8	12.8	15.1
LD07-4477	15.5	15.6	18.5	14.5	11.5	18.6	16.9	13.2	15.0
LD08-1592	15.2	15.7	17.9	15.0	12.6	18.1	15.9	13.6	15.1
LD08-2355	15.2	14.8	17.6	13.5	11.9	17.1	17.1	13.7	13.0
LD08-6972	15.2	15.2	17.7	15.5	11.2	17.5	16.5	13.8	14.4
LD08-8622	15.3	15.0	16.8	15.1	13.9	17.0	14.8	13.2	13.6
LG09-8545	13.7	13.2	16.2	12.1	12.3	16.1	13.4	12.4	12.8

UNIFORM TEST III, 2012

SEED SIZE (g/100)

Strain	Manhattan KS	Ottawa KS	Columbia MO	Portageville (Clay) MO	Portageville (Loam) MO	Clay Center NE	Lincoln NE	Phillips NE	Hoytville OH	South Charleston OH
IA3023 (III)	17.2	15.3	13.7	16.6	14.2	15.8		15.1	17.1	17.7
IA3024	15.9	15.4	15.1	15.8	13.3	18.6		16.9	17.5	17.9
IA3048 (SCN)	18.1	15.6	14.7	16.2	12.3	14.8		15.6	17.7	15.7
IA4005	17.0	14.6	13.6	15.1	13.1	14.7		14.2	16.7	15.2
AR10-306021	19.5	13.8	13.4	16.8	13.0	17.7		15.4	17.4	17.1
LD07-3419	15.7	15.9	14.3	15.2	13.1	16.5		16.1	15.8	15.9
LD07-4477	17.5	14.8	14.1	14.3	12.7	15.8		15.1	17.6	17.2
LD08-1592	16.1	13.9	13.9	15.5	12.9	15.1		14.4	16.5	16.3
LD08-2355	18.9	13.4	13.2	15.8	12.9	15.7		17.2	15.9	16.7
LD08-6972	17.7	13.0	15.2	15.2	13.0	14.7		15.4	16.0	16.2
LD08-8622	18.9	15.1	13.1	15.5	12.7	15.9		16.4	16.8	17.1
LG09-8545	15.9	13.5	12.3	13.7	12.1	13.2		14.0	15.0	14.0

UNIFORM TEST III, 2012

PROTEIN (%)

Strain	Mean 13 Tests	Carlisle IA	Crawfordsville IA	Aruthur IL	Urbana IL	Butlerville IN	Wanatah IN
IA3023 (III)	33.4	32.0	33.3	33.9	32.0	31.6	32.2
IA3024	34.0	32.4	34.5	35.4	32.6	33.4	33.3
IA3048 (SCN)	34.8	33.2	35.1	35.7	34.3	33.5	34.6
IA4005	34.3	33.1	34.5	34.9	33.8	34.0	33.9
AR10-306021	35.0	33.4	35.7	35.4	33.7	33.3	34.2
LD07-3419	32.8	29.7	34.2	33.5	32.2	31.7	31.7
LD07-4477	34.6	32.9	34.9	34.7	33.3	33.3	35.3
LD08-1592	34.7	33.4	35.3	34.7	33.8	34.3	34.3
LD08-2355	34.6	32.3	34.7	34.8	34.2	32.8	34.1
LD08-6972	33.8	31.9	35.0	35.0	32.9	32.8	33.0
LD08-8622	34.8	33.1	35.9	35.7	34.0	33.0	34.6
LG09-8545	35.0	33.6	35.5	34.7	34.0	33.8	36.0

UNIFORM TEST III, 2012

OIL (%)

Strain	Mean 13 Tests	Carlisle IA	Crawfordsville IA	Aruthur IL	Urbana IL	Butlerville IN	Wanatah IN
IA3023 (III)	19.7	20.0	19.3	19.6	20.9	21.4	19.6
IA3024	19.7	19.7	18.8	19.8	20.9	20.8	19.5
IA3048 (SCN)	19.2	19.3	18.4	19.5	19.7	20.6	18.8
IA4005	19.4	19.3	18.4	19.6	20.2	20.4	19.3
AR10-306021	19.5	19.6	18.7	19.8	20.3	21.1	19.5
LD07-3419	20.0	20.8	18.9	20.2	20.9	21.3	20.1
LD07-4477	19.4	19.3	18.5	19.8	20.4	20.9	18.7
LD08-1592	19.2	19.4	18.4	19.7	19.7	20.4	18.9
LD08-2355	19.4	19.7	18.9	20.0	19.7	20.7	19.1
LD08-6972	19.7	20.3	19.0	19.5	20.4	20.8	19.5
LD08-8622	19.6	19.7	18.6	19.6	20.5	21.2	19.2
LG09-8545	18.9	18.3	18.1	19.7	20.1	20.4	18.3

UNIFORM TEST III, 2012

PROTEIN (%)

Strain	Manhattan KS	Columbia MO	Portageville (Clay) MO	Clay Center NE	Phillips NE	Hoytville OH	South Charleston OH
IA3023 (III)	34.2	32.5	35.8	34.5	33.0	35.1	33.8
IA3024	36.0	32.1	35.0	34.2	33.6	35.6	33.4
IA3048 (SCN)	35.9	32.6	36.9	35.0	34.3	36.8	35.1
IA4005	32.5	32.1	36.2	35.5	35.1	35.9	34.6
AR10-306021	36.4	33.6	36.4	35.6	35.3	36.6	35.7
LD07-3419	35.6	32.1	34.5	32.6	32.3	34.5	32.6
LD07-4477	34.8	33.0	35.5	35.4	35.3	36.1	34.7
LD08-1592	34.9	33.4	36.1	34.5	35.3	36.1	34.5
LD08-2355	35.8	34.2	36.1	35.8	35.1	35.0	35.1
LD08-6972	36.9	31.8	35.0	34.1	33.5	34.7	32.8
LD08-8622	36.5	32.2	35.9	34.8	35.0	36.3	34.9
LG09-8545	36.5	33.4	35.7	35.6	35.0	36.0	35.6

UNIFORM TEST III, 2012

OIL (%)

Strain	Manhattan KS	Columbia MO	Portageville (Clay) MO	Clay Center NE	Phillips NE	Hoytville OH	South Charleston OH
IA3023 (III)	19.0	20.3	19.9	18.8	19.1	19.2	19.6
IA3024	18.5	20.9	20.7	18.9	19.3	18.9	19.8
IA3048 (SCN)	18.5	20.5	19.9	18.6	18.7	18.3	18.8
IA4005	20.0	20.8	20.0	17.8	18.1	18.8	19.4
AR10-306021	18.5	20.3	20.2	18.6	18.8	19.0	18.7
LD07-3419	18.6	20.3	20.3	19.6	19.7	19.0	20.0
LD07-4477	19.1	20.0	20.1	18.8	18.7	18.5	19.2
LD08-1592	18.8	20.3	19.9	18.4	18.1	18.4	19.0
LD08-2355	19.0	19.2	19.8	18.8	18.9	19.2	19.2
LD08-6972	18.8	20.7	20.3	19.1	19.2	19.0	19.9
LD08-8622	18.6	20.9	20.2	19.2	19.4	18.7	19.6
LG09-8545	18.2	19.7	19.5	18.3	18.3	18.4	18.4

Preliminary Test IIIA, 2012

Ent.	Strain	Parentage	Seed Source	Gen. Comp.	Unique Traits
1	IA3023 (III)	Dairyland DSR-365 x Pioneer P9381	Fehr	F5	
2.	IA3024	A97-553017 x Pioneer YB33A99	Fehr		1% linolenic
3.	IA3048 (SCN)	Dairyland 99540 x IA2068	Fehr	F4	SCN
4.	IA4005	IA3023 x IA3025	Fehr	F4	
5.	AR09-292051	Soygenetics F35978C x AR04-874018	Cianzio	F3	BSR
6.	AR10-206003	LD01-5907 x AR05-250118	Cianzio	F3	APHID
7.	AR11-214003	AR04-874024 x Syngenta 04RM820808	Cianzio	F4	BSR
8.	AR11-214013	AR3 x PI 398697	Cianzio	F5	IDC
9.	AR11-214015	AR3 x PI 398697	Cianzio	F5	IDC
10.	AR11-214032	AR05-250103 x Soygenetics F35170C	Cianzio	F4	IDC
11.	AR11-214034	Syngenta 04RM820808 x AR06-264007	Cianzio	F4	IDC
12.	AR11-314003	AR03-163008 x IAR2001 BSR	Cianzio	F4	BSR
13.	AR11-314011	Syngenta 04RM820808 x AR06-264007	Cianzio	F4	IDC
14.	AR11-314015	AR03-163008 x Syngenta 03JR321086	Cianzio	F4	SDS
15.	AR11-314016	AR03-163008 x Syngenta 03JR321086	Cianzio	F4	SDS
16.	AR11-314018	AR03-163008 x Syngenta 04RM820808	Cianzio	F4	SDS
17.	AR11-314023	AR03-163008 x AR05-250043	Cianzio	F4	SDS
18.	AR11-314026	AR06-264025 x Soygenetics F35170C	Cianzio	F4	
19.	AR11-314030	AR06-264025 x Soygenetics F36150C	Cianzio	F4	
20.	HR09-706	G00-3213 x Wyandot	Mian	F5	
21.	HR09-730	G00-3213 x Wyandot	Mian	F5	
22.	HM09-W054	LG00-3372 x HS3-2523	McHale	F4	
23.	HM09-W063	LG00-3372 x HS3-2523	McHale	F4	
24.	HM09-W150	HS1-3661 x (Wyandot x Md99-173-11-17)	McHale	F4	
25.	HM09-W158	HS1-3661 x (Wyandot x Md99-173-11-17)	McHale	F4	
26.	HM09-W174	HFPR-4 x IA 2065	McHale	F4	
27.	HM10-W081	OHS 202 x HS4-9864	McHale	F4	
28.	HS8-3463	OHS 303(3) x (Williams x PI 424354)	McHale	F4	
29.	LD08-RST5-10	LD00-3309 (4) x PI 547875	Diers	F3	SCN, rust
30.	LD09-42	Dairyland 99630 x LD03-7610	Diers	F5	
31.	LD09-10220	CL0J173-6-8 x Dairyland 99846-74	Diers	F5	
32.	LD09-30208	LD05-3230 x [LD05-16638 (2) x (Dwight x (Ina x PI 200538))]	Diers	F5	Rag 1

PRELIMINARY TEST IIIA, 2012

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	Shattering Score Manhattan KS	Green Stem Score S. Charleston OH
IA3023 (III)	WLtTDYBlI	1.0	1.0
IA3024	PGTDYIbI	1.0	1.5
IA3048 (SCN)	WGBIYYI	1.0	1.0
IA4005	WLtTDYBlI	1.0	2.5
AR09-292051	PTBDYBrI	1.0	1.0
AR10-206003	PGTDYYI	1.0	2.5
AR11-214003	PGBDYBlI	1.0	1.0
AR11-214013	PGTDYIbI	1.0	1.0
AR11-214015	PGTDYIbI	1.0	1.5
AR11-214032	PGTDYIbI	1.0	1.5
AR11-214034	PGBDYIbI	1.0	1.0
AR11-314003	WTTDYBrI	1.0	2.0
AR11-314011	PLtTDYBlI	1.0	1.0
AR11-314015	WG+LtTDYBr+BfI	1.0	1.0
AR11-314016	PGTDYBfI	1.0	2.0
AR11-314018	WTTDYGI	2.0	1.0
AR11-314023	WTTDYBrI	1.0	2.0
AR11-314026	PTTDYBlI	1.0	2.0
AR11-314030	PGTDYIbI	1.0	1.0
HR09-706	WGTIYYI	1.0	3.0
HR09-730	WGTIYYI	1.0	3.0
HM09-W054	PGBDYIbI	1.0	1.0
HM09-W063	PGBDYIb+BfI	1.0	1.5
HM09-W150	WGBIYBfI	1.0	1.0
HM09-W158	WG+TBDYBr+BfI	1.0	2.0
HM09-W174	PGBDYIbI	1.0	1.0
HM10-W081	PGTDYIbI	1.0	1.5
HS8-3463	PGTDYIbI	1.0	2.0
LD08-RST5-10	PTBIYGI	1.0	3.0
LD09-42	WGBSYIbI	1.0	2.0
LD09-10220	PGBDYIbI	1.0	2.0
LD09-30208	PGBIYIbI	1.0	1.5

PRELIMINARY TEST IIIA, 2012

REGIONAL SUMMARY

No. of Tests Strain	Yield 10 bu/a	Rank 10 No.	Maturity 9 Date	Lodging 8 Score	Plant Height 8 In.	Seed Quality 7 Score	Seed Size 9 g/100	Composition Protein 9 %	 Oil 9 %
IA3023 (III)	68.8	3	9/25	1.6	37	1.7	16.4	33.7	19.5
IA3024	66.4	11	-2.0	1.9	39	2.6	17.3	34.3	19.4
IA3048 (SCN)	68.5	5	-0.5	2.2	38	2.2	16.0	34.9	18.9
IA4005	69.3	2	5.3	1.9	36	1.8	15.2	34.6	19.1
AR09-292051	63.0	22	-9.2	2.5	35	2.6	17.2	35.5	19.4
AR10-206003	61.7	26	-2.0	2.2	37	2.1	14.2	34.9	18.8
AR11-214003	60.9	28	-6.9	2.1	42	2.5	17.0	35.7	19.3
AR11-214013	67.0	7	-6.1	1.8	34	2.0	17.8	33.4	20.2
AR11-214015	69.8	1	-5.0	2.0	36	2.2	18.2	33.4	20.4
AR11-214032	62.3	25	-4.7	2.4	40	2.6	19.4	36.2	19.0
AR11-214034	59.9	29	-6.7	1.8	37	2.5	17.5	36.5	19.3
AR11-314003	61.4	27	1.7	2.3	39	2.2	15.7	35.2	18.8
AR11-314011	66.6	9	-5.6	2.0	35	2.2	17.6	35.7	19.5
AR11-314015	63.0	22	3.0	2.2	39	2.1	15.9	35.0	18.7
AR11-314016	66.5	10	-1.3	1.9	40	1.9	14.6	33.4	19.0
AR11-314018	63.1	21	-2.9	2.3	39	2.1	15.8	35.8	18.7
AR11-314023	59.7	30	1.5	2.0	38	2.1	14.1	35.3	18.9
AR11-314026	68.6	4	-1.4	2.1	39	2.4	15.4	34.1	18.9
AR11-314030	66.9	8	-1.8	2.5	39	2.3	16.4	35.1	18.7
HR09-706	57.8	31	6.9	2.7	43	2.5	18.1	36.0	18.6
HR09-730	56.6	32	5.4	2.5	39	2.3	17.5	36.5	18.5
HM09-W054	65.8	13	1.3	2.4	44	2.2	16.8	34.4	18.8
HM09-W063	64.0	17	1.1	2.3	46	2.2	16.9	34.9	19.1
HM09-W150	67.4	6	0.5	2.5	42	2.1	15.5	35.0	19.1
HM09-W158	63.8	20	-1.3	2.2	41	2.8	17.1	35.6	18.6
HM09-W174	64.5	15	-1.7	2.5	40	1.9	16.4	35.3	20.1
HM10-W081	62.9	24	-0.9	2.1	41	2.2	16.3	35.4	18.9
HS8-3463	63.8	19	3.7	2.7	41	2.7	18.8	36.2	18.9
LD08-RST5-10	66.3	12	2.7	2.1	40	2.1	14.9	35.3	18.5
LD09-42	63.9	18	1.4	2.5	41	2.1	16.3	36.2	18.5
LD09-10220	64.6	14	0.1	1.5	36	1.7	16.9	35.4	19.3
LD09-30208	64.1	16	-0.2	2.0	37	2.4	17.3	35.6	18.5

132.4 Days After Planting

PRELIMINARY TEST IIIA, 2012

YIELD (bu/a)

Strain	Mean 10 Tests	Crawfordsville IA	Urbana IL	Lafayette* IN	Manhattan KS	Ottawa KS
IA3023 (III)	68.8	68.9	47.6	42.3	55.9	
IA3024	66.4	55.7	45.5	39.2	66.2	
IA3048 (SCN)	68.5	58.1	55.6	52.8	66.8	
IA4005	69.3	65.7	59.0	44.7	71.0	
AR09-292051	63.0	58.9	40.9	49.6	58.8	
AR10-206003	61.7	58.2	52.0	47.6	58.5	
AR11-214003	60.9	55.9	43.9	39.1	60.4	
AR11-214013	67.0	63.5	48.9	36.3	67.7	
AR11-214015	69.8	63.3	50.7	40.7	67.7	
AR11-214032	62.3	57.3	46.5	38.5	62.2	
AR11-214034	59.9	57.3	34.9	33.5	61.6	
AR11-314003	61.4	52.7	49.0	38.5	55.0	
AR11-314011	66.6	61.9	49.1	42.9	68.7	
AR11-314015	63.0	56.2	57.3	47.2	55.9	
AR11-314016	66.5	53.9	51.2	49.7	67.4	
AR11-314018	63.1	56.6	47.8	58.8	62.3	
AR11-314023	59.7	51.5	49.2	54.0	60.8	
AR11-314026	68.6	51.9	54.1	36.0	64.6	
AR11-314030	66.9	53.7	52.7	48.4	63.9	
HR09-706	57.8	52.3	44.4	44.3	55.8	
HR09-730	56.6	49.0	47.9	48.3	61.3	
HM09-W054	65.8	56.9	56.3	59.2	62.5	
HM09-W063	64.0	55.9	54.4	58.8	56.5	
HM09-W150	67.4	58.0	52.7	52.2	69.4	
HM09-W158	63.8	63.5	52.1	47.3	62.2	
HM09-W174	64.5	56.0	50.2	48.2	69.1	
HM10-W081	62.9	55.7	47.9	49.0	62.9	
HS8-3463	63.8	55.1	54.8	54.5	65.3	
LD08-RST5-10	66.3	61.9	59.9	53.5	66.3	
LD09-42	63.9	54.1	49.6	36.3	64.7	
LD09-10220	64.6	60.7	61.3	52.0	61.3	
LD09-30208	64.1	44.1	51.6	52.6	60.0	
Location Mean		57.0	50.6	46.8	62.9	
C.V. (%)		7.1	9.3	16.3	7.3	
L.S.D. (5%)		8.2	8.0	15.5	9.3	
Row Sp. (In.)		30	30	30	30	30
Rows/Plot		4	4	4	4	4
Reps		2	2	2	2	2

*Data not included in mean.

PRELIMINARY TEST IIIA, 2012

YIELD (bu/a)

Strain	Columbia MO	Clay Center NE	Lincoln NE	Phillips NE	Hoytville OH	South Charleston OH
IA3023 (III)	46.0	80.9	86.5	93.3	73.9	66.2
IA3024	50.1	87.6	70.8	94.2	71.2	56.3
IA3048 (SCN)	60.0	76.6	80.0	87.2	67.0	65.2
IA4005	54.9	74.0	79.6	73.1	79.7	66.8
AR09-292051	48.4	82.9	85.8	72.8	56.4	62.2
AR10-206003	49.5	76.6	73.1	68.2	70.1	49.5
AR11-214003	33.0	78.6	75.0	70.2	69.9	61.2
AR11-214013	39.6	84.3	88.1	88.8	67.9	54.1
AR11-214015	40.7	90.1	88.6	84.5	76.8	65.5
AR11-214032	47.3	69.2	70.1	75.0	74.2	58.9
AR11-214034	12.8	71.1	73.8	90.7	80.9	55.8
AR11-314003	46.5	76.3	70.4	75.4	74.0	53.5
AR11-314011	35.5	86.8	82.3	88.7	69.4	56.9
AR11-314015	47.5	72.4	73.5	69.8	77.6	56.8
AR11-314016	49.5	80.5	72.3	70.6	88.6	64.3
AR11-314018	48.5	71.9	81.4	77.8	70.3	51.5
AR11-314023	48.9	59.4	77.6	70.4	68.7	51.0
AR11-314026	47.0	83.2	78.2	94.3	83.4	60.6
AR11-314030	42.2	82.0	82.5	79.8	81.1	64.1
HR09-706	46.5	58.8	77.3	72.7	69.1	43.6
HR09-730	44.2	52.5	76.9	58.5	64.8	54.4
HM09-W054	54.6	79.4	79.0	63.7	77.8	61.6
HM09-W063	45.6	75.6	70.4	71.6	85.4	60.9
HM09-W150	43.8	65.4	83.2	82.5	90.4	61.5
HM09-W158	41.6	76.3	77.8	66.7	77.4	56.2
HM09-W174	52.6	74.1	75.7	72.6	69.3	60.7
HM10-W081	41.1	81.3	71.1	75.3	78.6	52.0
HS8-3463	49.8	70.6	74.4	64.9	79.2	59.8
LD08-RST5-10	48.2	71.6	81.3	71.5	85.0	50.6
LD09-42	57.8	75.8	77.5	72.5	65.9	57.2
LD09-10220	54.8	76.4	78.7	66.0	62.8	59.9
LD09-30208	52.8	77.1	83.9	85.9	69.0	52.3
Location Mean	46.3	75.6	78.0	76.5	74.2	57.9
C.V. (%)	7.1	8.9	8.1	14.6	10.5	12.6
L.S.D. (5%)	5.4	16.7	15.6	27.6	15.9	10.4
Row Sp. (In.)	30	30	30	30	7.5	15
Rows/Plot	4	4	4	4	8	6
Reps	3	2	2	2	2	2

PRELIMINARY TEST IIIA, 2012

YIELD RANK

Strain	Yield Rank	Crawfordsville IA	Urbana IL	Lafayette IN	Manhattan KS	Ottawa KS
IA3023 (III)	3	1	26	23	29	
IA3024	11	21	28	25	10	
IA3048 (SCN)	5	11	6	7	8	
IA4005	2	2	3	20	1	
AR09-292051	22	9	31	12	26	
AR10-206003	26	10	13	17	27	
AR11-214003	28	19	30	26	24	
AR11-214013	7	3	22	29	5	
AR11-214015	1	5	16	24	5	
AR11-214032	25	13	27	27	18	
AR11-214034	29	13	32	32	20	
AR11-314003	27	27	21	27	32	
AR11-314011	9	6	20	22	4	
AR11-314015	22	17	4	19	29	
AR11-314016	10	25	15	11	7	
AR11-314018	21	16	25	2	17	
AR11-314023	30	30	19	5	23	
AR11-314026	4	29	9	31	13	
AR11-314030	8	26	10	14	14	
HR09-706	31	28	29	21	31	
HR09-730	32	31	24	15	21	
HM09-W054	13	15	5	1	16	
HM09-W063	17	19	8	2	28	
HM09-W150	6	12	10	9	2	
HM09-W158	20	3	12	18	18	
HM09-W174	15	18	17	16	3	
HM10-W081	24	21	23	13	15	
HS8-3463	19	23	7	4	11	
LD08-RST5-10	12	6	2	6	9	
LD09-42	18	24	18	29	12	
LD09-10220	14	8	1	10	21	
LD09-30208	16	32	14	8	25	

PRELIMINARY TEST IIIA, 2012

YIELD RANK

Strain	Columbia MO	Clay Center NE	Lincoln NE	Phillips NE	Hoytville OH	South Charleston OH
IA3023 (III)	21	9	3	3	17	2
IA3024	8	2	29	2	18	20
IA3048 (SCN)	1	14	11	7	28	4
IA4005	3	22	12	16	8	1
AR09-292051	14	6	4	17	32	7
AR10-206003	11	15	26	27	20	31
AR11-214003	31	12	22	25	21	10
AR11-214013	29	4	2	5	27	24
AR11-214015	28	1	1	9	14	3
AR11-214032	17	28	32	15	15	16
AR11-214034	32	26	24	4	7	22
AR11-314003	19	18	31	13	16	25
AR11-314011	30	3	8	6	22	18
AR11-314015	16	23	25	26	12	19
AR11-314016	10	10	27	23	2	5
AR11-314018	13	24	9	12	19	28
AR11-314023	12	30	17	24	26	29
AR11-314026	18	5	15	1	5	13
AR11-314030	25	7	7	11	6	6
HR09-706	20	31	19	18	24	32
HR09-730	23	32	20	32	30	23
HM09-W054	5	11	13	31	11	8
HM09-W063	22	20	30	21	3	11
HM09-W150	24	29	6	10	1	9
HM09-W158	26	17	16	28	13	21
HM09-W174	7	21	21	19	23	12
HM10-W081	27	8	28	14	10	27
HS8-3463	9	27	23	30	9	15
LD08-RST5-10	15	25	10	22	4	30
LD09-42	2	19	18	20	29	17
LD09-10220	4	16	14	29	31	14
LD09-30208	6	13	5	8	25	26

PRELIMINARY TEST IIIA, 2012

MATURITY (date)

Strain	Mean 9 Tests	Crawfordsville IA	Urbana IL	Lafayette IN	Manhattan KS	Ottawa KS
IA3023 (III)	9/25	9/30	9/17	9/29	10/6	
IA3024	-2.0	-2	1	-4	-4	
IA3048 (SCN)	-0.5	-2	5	2	-3	
IA4005	5.3	6	9	5	5	
AR09-292051	-9.2	-12	-12	-14	-8	
AR10-206003	-2.0	-3	2	1	-4	
AR11-214003	-6.9	-8	-6	-12	-8	
AR11-214013	-6.1	-7	-2	-12	-8	
AR11-214015	-5.0	-5	-1	-12	-5	
AR11-214032	-4.7	-6	-1	-11	-8	
AR11-214034	-6.7	-8	-9	-14	-8	
AR11-314003	1.7	-2	8	0	-2	
AR11-314011	-5.6	-7	-6	-10	-7	
AR11-314015	3.0	1	9	4	-1	
AR11-314016	-1.3	-2	4	-1	-7	
AR11-314018	-2.9	-5	-1	-1	-4	
AR11-314023	1.5	1	4	2	0	
AR11-314026	-1.4	-5	1	-5	-8	
AR11-314030	-1.8	-7	2	-5	-5	
HR09-706	6.9	4	15	9	4	
HR09-730	5.4	5	13	10	4	
HM09-W054	1.3	1	5	4	-2	
HM09-W063	1.1	-1	7	2	-1	
HM09-W150	0.5	-1	5	-1	-1	
HM09-W158	-1.3	1	3	-1	-4	
HM09-W174	-1.7	-3	3	-7	-4	
HM10-W081	-0.9	0	5	1	-3	
HS8-3463	3.7	-1	10	3	-4	
LD08-RST5-10	2.7	2	8	6	0	
LD09-42	1.4	2	5	3	-3	
LD09-10220	0.1	1	3	4	-4	
LD09-30208	-0.2	1	6	5	-4	
Date Planted	5/16	5/16	5/15	5/15	6/4	
Days to Mature	132	137	125	137	124	

PRELIMINARY TEST IIIA, 2012

MATURITY (date)

Strain	Columbia MO	Clay Center NE	Lincoln NE	Phillips NE	Hoytville OH	South Charleston OH
IA3023 (III)	9/10	9/13	10/3		10/12	9/19
IA3024	0	2	-6		-5	0
IA3048 (SCN)	5	-2	-5		-6	1
IA4005	7	9	-11		6	12
AR09-292051	-5	1	-10		-16	-7
AR10-206003	-3	0	-9		-9	6
AR11-214003	-4	0	-7		-15	-2
AR11-214013	-4	-1	-8		-10	-3
AR11-214015	-2	-2	-10		-8	-2
AR11-214032	-2	-1	-10		-6	2
AR11-214034	8	-5	-7		-12	-6
AR11-314003	3	7	-1		-3	5
AR11-314011	-2	-3	-3		-9	-4
AR11-314015	-1	5	0		3	7
AR11-314016	-3	-3	-3		0	2
AR11-314018	-2	-1	-7		-6	0
AR11-314023	-1	4	0		-1	5
AR11-314026	0	2	-4		3	4
AR11-314030	-2	0	0		-2	2
HR09-706	10	7	2		3	9
HR09-730	6	7	-11		4	11
HM09-W054	1	1	-1		-1	4
HM09-W063	-1	2	-3		0	5
HM09-W150	2	4	-3		-4	3
HM09-W158	1	0	-8		-1	-2
HM09-W174	-1	2	-6		-3	4
HM10-W081	-2	2	-8		-5	2
HS8-3463	4	6	3		5	7
LD08-RST5-10	1	2	-3		1	7
LD09-42	0	5	-5		-1	6
LD09-10220	0	-1	-2		-4	4
LD09-30208	-1		-6		-3	0
Date Planted	5/16	5/11	5/18	5/8	5/15	5/11
Days to Mature	122	122	122		150	131

PRELIMINARY TEST IIIA, 2012

LODGING (score)

Strain	Mean 8 Tests	Crawfordsville IA	Urbana IL	Lafayette IN	Manhattan KS	Ottawa KS
IA3023 (III)	1.6	2.3	1.3	1.0	3.0	
IA3024	1.9	2.0	1.3	1.0	4.0	
IA3048 (SCN)	2.2	2.5	1.5	1.0	4.5	
IA4005	1.9	2.0	1.0	1.0	4.0	
AR09-292051	2.5	1.8	1.5	1.0	5.0	
AR10-206003	2.2	2.5	2.0	1.0	5.0	
AR11-214003	2.1	2.3	1.5	1.0	4.5	
AR11-214013	1.8	1.8	1.0	1.0	4.0	
AR11-214015	2.0	2.0	1.5	1.0	5.0	
AR11-214032	2.4	2.5	2.0	1.0	5.0	
AR11-214034	1.8	2.0	1.5	1.0	4.0	
AR11-314003	2.3	2.5	1.5	1.0	4.5	
AR11-314011	2.0	2.0	1.5	1.0	4.5	
AR11-314015	2.2	2.5	1.5	1.0	5.0	
AR11-314016	1.9	2.3	1.5	1.0	3.0	
AR11-314018	2.3	2.5	1.8	1.0	5.0	
AR11-314023	2.0	2.0	1.5	1.0	3.0	
AR11-314026	2.1	2.3	1.5	1.0	4.5	
AR11-314030	2.5	2.8	2.3	1.0	5.0	
HR09-706	2.7	2.8	3.0	1.0	5.0	
HR09-730	2.5	2.5	2.5	1.0	5.0	
HM09-W054	2.4	2.5	2.3	1.0	5.0	
HM09-W063	2.3	2.5	2.3	1.3	4.5	
HM09-W150	2.5	2.8	2.5	1.3	4.5	
HM09-W158	2.2	2.5	2.0	1.0	4.0	
HM09-W174	2.5	2.3	1.8	1.0	5.0	
HM10-W081	2.1	2.3	1.5	1.0	5.0	
HS8-3463	2.7	2.8	2.3	1.3	5.0	
LD08-RST5-10	2.1	2.0	1.3	1.0	5.0	
LD09-42	2.5	2.3	2.0	1.3	5.0	
LD09-10220	1.5	1.5	1.3	1.0	4.0	
LD09-30208	2.0	2.0	1.3	1.0	4.5	

PRELIMINARY TEST IIIA, 2012

LODGING (score)

Strain	Columbia MO	Clay Center NE	Lincoln NE	Phillips NE	Hoytville OH	South Charleston OH
IA3023 (III)	1.5	2.0			1.0	1.0
IA3024	1.7	3.0			1.0	1.0
IA3048 (SCN)	1.5	4.0			1.0	1.8
IA4005	1.5	3.0			1.0	1.8
AR09-292051	1.5	5.0			1.0	3.0
AR10-206003	1.7	3.0			1.0	1.5
AR11-214003	1.3	3.0			1.0	2.0
AR11-214013	1.5	3.0			1.0	1.0
AR11-214015	1.5	3.0			1.0	1.0
AR11-214032	1.5	4.0			1.0	2.5
AR11-214034	1.5	2.0			1.0	1.5
AR11-314003	1.8	4.0			1.0	1.8
AR11-314011	1.5	3.0			1.0	1.3
AR11-314015	1.5	3.0			1.0	2.3
AR11-314016	1.5	2.0			1.0	3.0
AR11-314018	1.7	3.0			1.0	2.5
AR11-314023	1.7	4.0			1.0	1.5
AR11-314026	1.5	3.0			1.0	2.3
AR11-314030	1.8	3.0			1.0	3.5
HR09-706	1.7	3.0			1.0	4.0
HR09-730	1.5	4.0			1.0	2.5
HM09-W054	1.5	3.0			1.0	3.0
HM09-W063	1.5	3.0			1.0	2.5
HM09-W150	1.7	4.0			1.0	2.3
HM09-W158	1.5	3.0			1.0	2.5
HM09-W174	1.5	5.0			1.0	2.5
HM10-W081	1.5	3.0			1.0	1.8
HS8-3463	1.5	5.0			1.0	2.5
LD08-RST5-10	1.8	3.0			1.0	2.0
LD09-42	1.7	5.0			1.0	2.0
LD09-10220	1.5	1.0			1.0	1.0
LD09-30208	1.5	3.0			1.0	1.8

PRELIMINARY TEST IIIA, 2012

PLANT HEIGHT (inches)

Strain	Mean 8 Tests	Crawfordsville IA	Urbana IL	Lafayette IN	Manhattan KS	Ottawa KS
IA3023 (III)	37	41	30	34	46	
IA3024	39	42	33	38	47	
IA3048 (SCN)	38	42	36	37	45	
IA4005	36	36	35	33	46	
AR09-292051	35	35	31	37	39	
AR10-206003	37	39	37	38	43	
AR11-214003	42	44	38	41	52	
AR11-214013	34	39	32	30	43	
AR11-214015	36	37	33	32	43	
AR11-214032	40	44	36	36	50	
AR11-214034	37	38	34	35	50	
AR11-314003	39	42	40	38	45	
AR11-314011	35	35	33	30	41	
AR11-314015	39	42	37	37	45	
AR11-314016	40	44	40	38	45	
AR11-314018	39	39	35	40	46	
AR11-314023	38	38	36	37	43	
AR11-314026	39	44	34	34	46	
AR11-314030	39	43	37	40	45	
HR09-706	43	43	37	43	53	
HR09-730	39	41	36	37	47	
HM09-W054	44	46	40	43	52	
HM09-W063	46	47	44	48	56	
HM09-W150	42	41	39	45	53	
HM09-W158	41	41	39	42	49	
HM09-W174	40	43	37	39	45	
HM10-W081	41	40	36	42	51	
HS8-3463	41	42	38	44	47	
LD08-RST5-10	40	39	36	39	48	
LD09-42	41	43	40	41	50	
LD09-10220	36	34	34	33	47	
LD09-30208	37	37	36	36	44	

PRELIMINARY TEST IIIA, 2012

PLANT HEIGHT (inches)

Strain	Columbia MO	Clay Center NE	Lincoln NE	Phillips NE	Hoytville OH	South Charleston OH
IA3023 (III)	28	47			35	37
IA3024	32	46			34	39
IA3048 (SCN)	34	42			35	38
IA4005	30	44			32	34
AR09-292051	29	43			31	36
AR10-206003	31	48			31	32
AR11-214003	34	50			35	41
AR11-214013	24	43			31	34
AR11-214015	25	47			34	37
AR11-214032	32	46			33	42
AR11-214034	28	43			30	36
AR11-314003	33	45			33	38
AR11-314011	26	43			35	35
AR11-314015	33	48			33	37
AR11-314016	34	48			35	39
AR11-314018	33	45			36	40
AR11-314023	33	45			33	36
AR11-314026	29	48			36	38
AR11-314030	28	43			35	40
HR09-706	38	51			35	41
HR09-730	35	45			33	38
HM09-W054	37	54			33	43
HM09-W063	37	58			33	44
HM09-W150	38	49			35	39
HM09-W158	32	49			34	42
HM09-W174	35	48			33	40
HM10-W081	33	51			35	40
HS8-3463	37	50			29	39
LD08-RST5-10	32	51			35	38
LD09-42	34	49			33	41
LD09-10220	28	44			35	36
LD09-30208	32	42			31	39

PRELIMINARY TEST IIIA, 2012

SEED QUALITY (score)

Strain	Mean 7 Tests	Crawfordsville IA	Urbana IL	Lafayette IN	Manhattan KS	Ottawa KS
IA3023 (III)	1.7	3.0	1.0	2.0	2.1	
IA3024	2.6	3.0	2.0	3.0	4.0	
IA3048 (SCN)	2.2	4.0	1.0	2.0	3.0	
IA4005	1.8	3.0	1.0	2.5	2.0	
AR09-292051	2.6	3.0	2.0	2.5	4.0	
AR10-206003	2.1	3.0	2.0	2.0	2.0	
AR11-214003	2.5	3.0	2.0	3.0	4.0	
AR11-214013	2.0	3.0	2.0	2.0	3.0	
AR11-214015	2.2	2.0	2.0	3.0	4.0	
AR11-214032	2.6	3.0	3.0	4.0	4.0	
AR11-214034	2.5	3.0	2.0	4.0	3.0	
AR11-314003	2.2	3.0	2.0	2.5	3.0	
AR11-314011	2.2	3.0	2.0	3.0	3.0	
AR11-314015	2.1	3.0	2.0	2.5	3.0	
AR11-314016	1.9	3.0	1.0	1.5	3.0	
AR11-314018	2.1	2.0	2.0	1.5	4.0	
AR11-314023	2.1	4.0	1.0	2.0	3.0	
AR11-314026	2.4	4.0	2.0	2.5	3.0	
AR11-314030	2.3	3.0	2.0	2.5	2.1	
HR09-706	2.5	3.0	3.0	1.5	3.0	
HR09-730	2.3	3.0	2.0	1.5	3.0	
HM09-W054	2.2	4.0	2.0	2.0	3.0	
HM09-W063	2.2	4.0	1.0	2.5	3.0	
HM09-W150	2.1	4.0	2.0	2.0	2.0	
HM09-W158	2.8	4.0	2.0	2.5	4.0	
HM09-W174	1.9	3.0	2.0	2.0	2.0	
HM10-W081	2.2	4.0	1.0	1.5	4.0	
HS8-3463	2.7	4.0	2.0	3.0	4.0	
LD08-RST5-10	2.1	3.0	1.0	2.0	4.0	
LD09-42	2.1	3.0	1.0	2.0	3.0	
LD09-10220	1.7	2.0	1.0	2.0	2.0	
LD09-30208	2.4	4.0	2.0	2.5	4.0	

PRELIMINARY TEST IIIA, 2012

SEED QUALITY (score)

Strain	Columbia MO	Clay Center NE	Lincoln NE	Phillips NE	Hoytville OH	South Charleston OH
IA3023 (III)	1.7				1.0	1.0
IA3024	1.7				2.0	2.5
IA3048 (SCN)	1.7				2.0	1.5
IA4005	1.8				1.0	1.5
AR09-292051	2.5				1.0	3.0
AR10-206003	2.0				1.0	2.5
AR11-214003	2.2				1.0	2.0
AR11-214013	1.7				1.0	1.5
AR11-214015	1.8				1.0	1.5
AR11-214032	1.7				1.0	1.5
AR11-214034	3.2				1.0	1.5
AR11-314003	1.7				1.0	2.0
AR11-314011	1.5				1.0	2.0
AR11-314015	1.5				1.0	2.0
AR11-314016	1.7				1.0	2.0
AR11-314018	2.0				1.0	2.0
AR11-314023	1.7				1.0	2.0
AR11-314026	1.7				1.0	2.5
AR11-314030	2.0				2.0	2.5
HR09-706	2.5				1.0	3.5
HR09-730	1.8				1.0	3.5
HM09-W054	1.7				1.0	1.5
HM09-W063	1.7				1.0	2.0
HM09-W150	1.8				1.0	2.0
HM09-W158	3.5				1.0	2.5
HM09-W174	1.5				1.0	1.5
HM10-W081	1.7				1.0	2.0
HS8-3463	2.0				1.0	3.0
LD08-RST5-10	1.8				1.0	2.0
LD09-42	1.7				1.0	3.0
LD09-10220	1.5				1.0	2.5
LD09-30208	1.5				1.0	1.5

PRELIMINARY TEST IIIA, 2012

SEED SIZE (g/100)

Strain	Mean 9 Tests	Crawfordsville IA	Urbana IL	Lafayette IN	Manhattan KS	Ottawa KS
IA3023 (III)	16.4	15.5	17.8	16.6	18.8	
IA3024	17.3	16.3	17.2	17.6	20.6	
IA3048 (SCN)	16.0	14.9	18.0	16.6	17.2	
IA4005	15.2	15.0	16.4	15.8	17.4	
AR09-292051	17.2	17.0	15.1	16.6	21.7	
AR10-206003	14.2	13.1	14.9	14.3	16.5	
AR11-214003	17.0	16.4	16.7	16.6	18.6	
AR11-214013	17.8	17.9	18.0	16.5	18.8	
AR11-214015	18.2	17.4	20.2	18.2	18.3	
AR11-214032	19.4	17.2	21.3	19.8	22.4	
AR11-214034	17.5	17.0	15.6	17.3	20.7	
AR11-314003	15.7	14.3	16.6	15.0	18.7	
AR11-314011	17.6	17.5	16.5	17.6	20.0	
AR11-314015	15.9	15.3	17.8	19.9	17.3	
AR11-314016	14.6	13.2	15.3	15.3	18.3	
AR11-314018	15.8	15.6	16.2	16.4	16.8	
AR11-314023	14.1	13.9	14.9	14.9	16.8	
AR11-314026	15.4	12.7	17.9	14.0	16.5	
AR11-314030	16.4	14.5	17.9	16.3	19.0	
HR09-706	18.1	15.2	20.3	17.7	23.1	
HR09-730	17.5	16.3	19.6	16.8	22.8	
HM09-W054	16.8	14.4	19.7	18.5	20.6	
HM09-W063	16.9	15.1	18.9	17.5	21.1	
HM09-W150	15.5	14.2	15.6	17.4	20.5	
HM09-W158	17.1	15.5	16.8	17.7	20.5	
HM09-W174	16.4	14.4	17.1	18.1	20.2	
HM10-W081	16.3	15.1	17.3	18.8	19.8	
HS8-3463	18.8	16.7	21.2	19.8	22.9	
LD08-RST5-10	14.9	13.3	17.4	15.2	17.1	
LD09-42	16.3	15.4	17.1	17.7	20.3	
LD09-10220	16.9	16.6	18.2	18.3	20.1	
LD09-30208	17.3	16.2	18.6	19.4	18.7	

PRELIMINARY TEST IIIA, 2012

SEED SIZE (g/100)

Strain	Columbia MO	Clay Center NE	Lincoln NE	Phillips NE	Hoytville OH	South Charleston OH
IA3023 (III)	13.9	14.9		14.7	17.2	17.8
IA3024	14.5	16.9		17.1	17.8	17.9
IA3048 (SCN)	14.9	14.1		15.0	17.2	15.9
IA4005	13.1	14.5		13.3	16.4	15.3
AR09-292051	15.3	17.2		16.2	18.0	17.3
AR10-206003	12.6	13.5		13.7	15.0	13.9
AR11-214003	14.6	16.9		15.7	17.7	20.1
AR11-214013	15.5	17.7		17.5	19.6	18.8
AR11-214015	15.7	16.8		17.4	20.7	19.0
AR11-214032	17.9	16.8		18.2	20.6	20.6
AR11-214034	13.3	17.3		18.6	19.2	18.8
AR11-314003	12.6	15.0		15.9	17.8	15.8
AR11-314011	14.8	17.0		18.9	18.3	18.0
AR11-314015	13.1	13.9		13.6	16.3	16.1
AR11-314016	12.0	13.6		12.5	15.4	16.0
AR11-314018	14.1	14.9		15.1	17.2	15.9
AR11-314023	11.6	13.3		12.7	14.9	14.0
AR11-314026	13.5	15.1		16.2	16.5	16.5
AR11-314030	14.1	15.0		15.5	17.7	17.5
HR09-706	14.8	15.7		19.9	18.1	18.5
HR09-730	14.7	15.8		16.0	17.2	18.1
HM09-W054	15.2	15.7		13.8	17.5	16.3
HM09-W063	14.2	15.3		15.9	17.0	17.5
HM09-W150	12.7	14.5		13.0	16.5	15.4
HM09-W158	15.7	16.9		14.8	17.5	18.2
HM09-W174	14.1	15.1		14.9	16.3	17.3
HM10-W081	12.0	15.4		16.5	16.5	15.4
HS8-3463	15.5	18.5		16.8	19.0	19.0
LD08-RST5-10	12.3	14.4		13.0	16.2	15.0
LD09-42	14.4	14.8		15.5	16.7	15.2
LD09-10220	14.7	15.2		15.3	16.8	17.2
LD09-30208	13.9	17.3		17.1	17.6	16.7

PRELIMINARY TEST IIIA, 2012

PROTEIN (%)

Strain	Mean 9 Tests	Crawfordsville IA	Urbana IL	Lafayette IN	Manhattan KS	Columbia MO	Clay Center NE	Phillips NE	Hoytville Hoytville OH	South Charleston OH
IA3023 (III)	33.7	33.8	31.9	34.1	33.9	32.6	34.7	33.2	35.1	33.5
IA3024	34.3	35.8	33.0	34.7	36.0	31.8	34.2	33.6	35.3	34.8
IA3048 (SCN)	34.9	35.8	33.7	35.6	34.2	33.4	35.5	34.5	36.4	34.8
IA4005	34.6	35.2	33.3	34.9	35.5	32.4	35.1	34.5	36.1	34.6
AR09-292051	35.5	36.3	33.4	35.2	36.8	34.5	36.2	35.6	35.5	35.7
AR10-206003	34.9	35.1	33.1	35.2	35.7	33.9	34.8	34.7	35.8	35.7
AR11-214003	35.7	35.9	34.1	36.1	36.7	35.0	35.4	35.8	36.7	36.0
AR11-214013	33.4	33.7	32.0	33.6	34.6	32.3	33.9	33.0	34.7	32.9
AR11-214015	33.4	32.5	32.1	33.1	34.2	32.6	34.2	33.8	34.3	33.5
AR11-214032	36.2	35.3	34.8	35.5	36.8	35.2	36.9	36.4	37.7	37.1
AR11-214034	36.5	36.7	33.7	35.9	37.7	35.3	38.0	36.9	37.7	37.0
AR11-314003	35.2	35.7	33.9	35.0	35.8	33.4	35.9	35.5	36.4	35.0
AR11-314011	35.7	36.2	33.8	36.1	36.6	34.3	35.9	35.7	36.7	35.9
AR11-314015	35.0	36.2	33.0	36.0	35.8	32.8	35.4	35.1	35.9	35.1
AR11-314016	33.4	35.2	30.7	34.1	34.2	31.1	33.7	33.1	34.9	33.6
AR11-314018	35.8	36.3	34.2	36.5	36.9	34.2	35.6	35.3	36.9	36.0
AR11-314023	35.3	36.4	32.6	35.5	36.2	33.5	35.8	36.1	36.6	35.2
AR11-314026	34.1	35.5	32.5	33.7	34.2	33.1	34.6	33.6	36.0	33.8
AR11-314030	35.1	34.9	33.7	36.2	35.1	34.1	35.4	35.4	36.2	35.1
HR09-706	36.0	36.1	34.9	37.5	36.4	32.6	36.7	36.0	38.1	35.9
HR09-730	36.5	36.7	35.1	36.3	37.3	33.4	38.0	37.3	37.3	37.0
HM09-W054	34.4	34.6	33.4	36.7	35.6	32.4	33.7	34.2	35.9	33.2
HM09-W063	34.9	34.8	34.0	36.6	36.2	32.9	35.0	34.1	36.3	34.1
HM09-W150	35.0	35.0	33.4	36.9	35.8	32.9	34.7	35.4	36.1	34.6
HM09-W158	35.6	35.8	34.1	36.4	36.5	34.8	35.6	35.2	35.9	36.0
HM09-W174	35.3	34.6	33.6	36.5	36.2	33.7	35.2	35.3	36.8	35.5
HM10-W081	35.4	35.0	34.2	37.4	35.9	33.6	35.2	36.0	36.3	35.4
HS8-3463	36.2	35.9	34.7	37.7	36.9	33.2	36.4	37.0	37.4	36.5
LD08-RST5-10	35.3	35.7	34.1	36.5	35.4	34.1	35.8	34.4	36.3	35.4
LD09-42	36.2	37.6	35.2	38.3	35.4	34.0	36.0	35.4	37.8	36.1
LD09-10220	35.4	36.0	33.5	36.9	37.5	32.6	35.6	35.3	36.0	35.7
LD09-30208	35.6	37.1	35.0	38.0	35.3	32.0	35.5	35.4	36.8	35.6

PRELIMINARY TEST IIIA, 2012

OIL (%)

Strain	Mean 9 Tests	Crawfordsville IA	Urbana IL	Lafayette IN	Manhattan KS	Columbia MO	Clay Center NE	Phillips NE	Hoytville OH	South Charleston OH
IA3023 (III)	19.5	19.3	20.9	19.6	19.0	20.4	19.1	18.8	19.0	19.6
IA3024	19.4	18.7	20.7	19.5	18.1	21.5	18.8	19.0	18.8	19.6
IA3048 (SCN)	18.9	18.2	19.9	18.7	19.0	20.3	18.2	18.5	18.4	18.8
IA4005	19.1	18.8	20.1	19.0	18.8	20.7	18.0	18.7	18.7	19.0
AR09-292051	19.4	19.1	20.7	19.9	18.5	20.4	18.4	18.7	19.5	19.2
AR10-206003	18.8	18.4	20.0	18.3	18.2	19.8	18.4	18.6	18.6	18.5
AR11-214003	19.3	19.0	20.3	19.3	19.0	20.4	18.9	19.1	18.8	19.0
AR11-214013	20.2	19.9	21.5	19.7	19.7	21.5	19.2	19.7	19.9	20.5
AR11-214015	20.4	20.6	21.3	20.7	20.1	21.2	19.8	19.9	20.1	20.3
AR11-214032	19.0	19.3	20.0	19.6	19.0	19.8	17.9	18.4	18.2	18.7
AR11-214034	19.3	19.0	21.0	19.6	18.8	20.0	18.3	19.0	18.6	19.2
AR11-314003	18.8	18.2	20.0	19.1	18.3	19.5	18.1	18.3	18.3	19.0
AR11-314011	19.5	19.2	20.7	19.8	18.8	20.9	18.9	19.1	18.9	19.6
AR11-314015	18.7	18.0	19.8	19.1	18.7	19.8	18.0	18.0	18.1	18.5
AR11-314016	19.0	17.6	20.8	18.8	19.4	20.0	18.4	18.5	18.1	19.0
AR11-314018	18.7	18.5	19.8	18.3	18.4	19.3	18.3	18.5	18.2	18.7
AR11-314023	18.9	18.4	20.6	18.7	18.6	19.4	18.8	18.1	18.3	19.1
AR11-314026	18.9	18.3	20.1	19.4	19.2	19.5	18.2	18.6	18.2	18.9
AR11-314030	18.7	18.9	19.7	18.5	18.9	19.7	18.0	18.2	18.1	18.7
HR09-706	18.6	18.6	19.2	18.1	18.3	20.6	17.9	18.0	17.7	18.8
HR09-730	18.5	17.8	19.4	18.6	18.3	20.2	17.6	18.0	17.9	18.4
HM09-W054	18.8	18.5	19.9	17.7	18.7	20.0	18.8	18.0	18.2	19.1
HM09-W063	19.1	18.8	19.8	18.2	18.9	19.8	19.0	19.3	18.5	19.6
HM09-W150	19.1	18.9	20.1	18.3	19.1	20.6	18.7	18.0	18.8	19.3
HM09-W158	18.6	18.4	19.5	18.2	18.0	19.5	18.2	18.3	18.6	18.2
HM09-W174	20.1	20.0	21.4	19.6	19.7	21.6	19.8	19.5	19.3	20.4
HM10-W081	18.9	18.6	20.1	18.4	18.8	19.7	18.8	18.4	18.4	18.9
HS8-3463	18.9	19.0	20.0	18.5	18.7	20.3	18.5	18.0	18.4	18.9
LD08-RST5-10	18.5	17.8	19.3	17.6	18.7	19.3	18.6	18.4	18.1	18.3
LD09-42	18.5	17.6	19.8	17.9	18.7	20.4	18.0	18.3	18.0	18.2
LD09-10220	19.3	19.0	20.5	18.8	18.5	20.8	18.7	19.0	19.2	18.9
LD09-30208	18.5	17.8	19.1	17.6	19.6	19.8	18.0	18.0	18.2	18.8

Preliminary Test IIIB, 2012

Ent.	Strain	Parentage	Seed Source	Gen. Comp.	Unique Traits
1	IA3023 (III)	Dairyland DSR-365 x Pioneer P9381	Fehr	F5	
2.	IA3024	A97-553017 x Pioneer YB33A99	Fehr		1% linolenic
3.	IA3048 (SCN)	Dairyland 99540 x IA2068	Fehr	F4	SCN
4.	IA4005	IA3023 x IA3025	Fehr	F4	
5.	E10173	U01-390489 x LD01-5907	Wang	F5	
6.	E10174	U01-390489 x LD01-5907	Wang	F5	
7.	K10-2385	IA3023 x 435.TCS	Schapaugh	F4	
8.	LG08-3607	LG00-7196 x S42-H1	Nelson	F6	genetic diversity
9.	LG09-7157	LG00-3372 x HC99-2763	Nelson	F6	genetic diversity
10.	LG09-7163	LG00-3372 x HC99-2763	Nelson	F6	genetic diversity
11.	LG09-7431	LG00-8298 x H-2885	Nelson	F6	genetic diversity
12.	LG09-7823	LG02-3693 x LG02-3971	Nelson	F6	genetic diversity
13.	LG09-8078	PI 592971 x PI 612738	Nelson	F6	genetic diversity
14.	LG09-8165	PI 603571A x LG00-6182	Nelson	F6	genetic diversity
15.	LG10-2970	LG02-3996 x LG00-6925	Nelson	F6	genetic diversity
16.	U09-107020	OAC 05-21 X U03-200317	Graef	F4	
17.	U09-204040	OAC 05-21 X U03-300134	Graef	F4	
18.	U09-213066	U01-190311 X U03-400435	Graef	F4	
19.	U09-219057	U02-242055 X U03-200317	Graef	F4	
20.	U09-224062	U03-200317 X U03-300134	Graef	F4	
21.	U09-225066	U03-200317 X U03-400435	Graef	F4	
22.	U09-227064	U03-300134 X LD00-3309	Graef	F4	SCN
23.	U09-315118	U03-200317 X U03-400435	Graef	F4	
24.	U09-315123	U03-200317 X U03-400435	Graef	F4	
25.	U09-317102	U03-300134 X U03-400435	Graef	F4	
26.	U09-317110	U03-300134 X U03-400435	Graef	F4	
27.	U10-429069	(U01-390489 x LD01-5907) X U02-341563	Graef	F4	SCN
28.	U10-430052	(U01-390489 x LD01-5907) X U02-341563	Graef	F4	SCN
29.	U10-436068	(U01-390489 x U03-200317) X U02-341563	Graef	F4	SCN
30.	U10-442059	(U01-390489 x U03-200317) X U02-341563	Graef	F4	SCN

PRELIMINARY TEST IIIB, 2012

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	Shattering Score Manhattan KS	Shattering Score Ottawa KS	Green Stem Score S. Charleston OH
IA3023 (III)	WLtTDYBlI	1.0	1.0	1.5
IA3024	PGTDYIbI	1.0	1.0	1.0
IA3048 (SCN)	WGBIYYI	1.0	1.0	1.0
IA4005	WLtTDYBlI	1.0	1.0	2.5
E10173	WGBDYYI	1.0	1.0	2.0
E10174	WGTDYBf+YI	1.0	1.0	2.0
K10-2385	WGTDYIbI	1.0	1.0	2.5
LG08-3607	WTBIYBlI	1.0	1.0	2.5
LG09-7157	PGBDYIbI	1.0	1.0	2.5
LG09-7163	PGBDYIbI	1.0	1.0	1.5
LG09-7431	PGBDYIbI	1.0	1.0	1.5
LG09-7823	PTBSYBlI	1.0	1.0	3.0
LG09-8078	PTBSYBlI	1.0	1.0	3.5
LG09-8165	PGBDYIbI	1.0	1.0	1.5
LG10-2970	PGBIYBrI	1.0	1.0	3.5
U09-107020	PLtBDYLbrI	1.0	1.0	1.0
U09-204040	PLtBDYBrI	1.0	1.0	1.0
U09-213066	WT+GBDYBl+BlI	1.0	1.0	1.0
U09-219057	PGBDYIbI	1.0	1.0	1.0
U09-224062	PGBDYIbI	2.0	2.0	1.0
U09-225066	PGBDYIbI	1.0	1.0	1.0
U09-227064	PLtBDYBlI	2.0	2.0	1.0
U09-315118	PGBDYIbI	2.0	2.0	1.0
U09-315123	PGBDYIbI	2.0	2.0	1.0
U09-317102	PGBDYIbI	2.0	2.0	1.0
U09-317110	PGBDYIbI	2.0	2.0	1.0
U10-429069	PGBDYYI	1.0	1.0	1.5
U10-430052	PGBDYG+YI	1.0	1.0	1.0
U10-436068	PG+LtBDYHI	1.0	1.0	1.5
U10-442059	PLtBDYYI	1.0	1.0	1.0

PRELIMINARY TEST IIIB, 2012

REGIONAL SUMMARY

Strain	Yield 11 bu/a	Rank 11 No.	Maturity 9 Date	Lodging 9 Score	Plant Height 9 In.	Seed Quality 8 Score	Seed Size 10 g/100	Composition Protein 9 %	Composition Oil 9 %
No. of Tests									
IA3023 (III)	67.5	2	9/26	1.9	36	1.6	16.4	33.9	19.5
IA3024	65.4	4	-2.3	1.8	38	2.5	17.2	34.5	19.2
IA3048 (SCN)	65.0	5	-1.6	2.0	37	2.2	16.1	34.7	19.0
IA4005	68.2	1	6.6	1.6	35	1.6	15.0	34.8	18.9
E10173	59.2	21	-7.6	1.8	33	2.9	16.7	35.1	19.3
E10174	58.9	22	-4.3	2.2	37	3.1	18.5	34.0	20.1
K10-2385	59.5	20	2.7	2.1	31	2.3	16.2	36.1	18.6
LG08-3607	58.4	26	-1.5	2.1	37	2.1	17.6	35.2	19.3
LG09-7157	61.2	17	2.9	1.8	42	2.3	16.0	35.9	18.8
LG09-7163	67.0	3	0.1	1.9	39	1.9	16.0	36.2	18.7
LG09-7431	63.3	10	1.0	1.9	37	1.7	15.0	34.6	18.9
LG09-7823	61.8	14	5.9	2.6	38	2.0	16.4	34.8	18.2
LG09-8078	58.5	25	6.7	2.5	43	2.1	17.0	36.2	18.5
LG09-8165	64.3	7	2.1	1.8	41	2.1	16.7	35.3	18.5
LG10-2970	61.2	17	5.4	3.0	47	2.5	18.7	36.2	18.7
U09-107020	63.9	8	-9.1	2.1	34	2.5	16.5	34.4	19.3
U09-204040	62.7	11	-7.3	1.6	35	2.0	15.0	34.1	19.9
U09-213066	63.7	9	-3.1	1.9	36	2.3	16.7	33.9	19.3
U09-219057	61.9	13	-8.8	2.0	36	2.5	16.9	34.1	20.5
U09-224062	52.8	30	-4.9	1.7	36	2.2	13.4	33.8	19.6
U09-225066	58.2	27	-5.4	1.8	36	2.1	16.1	33.6	19.8
U09-227064	58.1	28	-6.9	1.8	34	2.0	13.0	34.1	19.7
U09-315118	58.9	22	-8.5	1.9	39	1.9	15.0	33.8	19.5
U09-315123	58.0	29	-5.9	1.8	37	2.3	15.1	34.1	19.5
U09-317102	61.4	16	-7.3	1.8	34	2.2	13.3	34.4	19.5
U09-317110	58.8	24	-7.4	1.8	34	2.1	12.8	34.1	19.5
U10-429069	61.5	15	-2.1	1.7	35	2.3	15.7	34.6	19.6
U10-430052	64.7	6	-0.9	1.8	33	2.1	15.8	34.6	19.8
U10-436068	62.5	12	1.2	1.9	35	2.1	15.9	36.0	19.3
U10-442059	60.5	19	0.4	1.7	34	2.1	16.6	36.3	18.7

132.7 Days After Planting

PRELIMINARY TEST IIIB, 2012

YIELD (bu/a)

Strain	Mean 11 Tests	Crawfordsville IA	Urbana IL	Lafayette IN	Manhattan KS	Ottawa KS
IA3023 (III)	67.5	63.6	58.2	46.9	72.6	18.6
IA3024	65.4	57.6	47.7	28.3	69.2	18.7
IA3048 (SCN)	65.0	55.7	52.2	59.5	72.6	21.4
IA4005	68.2	56.3	58.7	45.8	67.8	24.2
E10173	59.2	57.8	38.3	37.5	67.2	12.9
E10174	58.9	54.5	46.6	37.6	61.0	18.1
K10-2385	59.5	54.0	48.0	49.6	62.5	19.7
LG08-3607	58.4	55.2	49.4	48.5	33.3	23.0
LG09-7157	61.2	48.0	48.4	52.7	64.1	23.7
LG09-7163	67.0	62.6	52.0	55.8	64.5	22.0
LG09-7431	63.3	55.6	52.1	50.8	62.0	24.6
LG09-7823	61.8	46.4	52.1	58.5	57.7	25.4
LG09-8078	58.5	47.7	49.7	48.2	60.1	23.9
LG09-8165	64.3	58.1	43.6	40.3	67.2	21.4
LG10-2970	61.2	46.3	43.3	49.0	65.4	21.3
U09-107020	63.9	53.6	44.1	38.2	73.4	10.6
U09-204040	62.7	56.4	39.9	43.2	69.7	16.0
U09-213066	63.7	59.5	41.1	50.3	57.0	19.3
U09-219057	61.9	59.0	39.4	40.7	68.5	12.6
U09-224062	52.8	55.4	34.5	35.8	60.6	14.7
U09-225066	58.2	54.5	40.7	39.3	41.4	19.3
U09-227064	58.1	56.1	28.0	37.3	71.4	11.8
U09-315118	58.9	57.1	40.5	41.3	62.8	15.4
U09-315123	58.0	56.3	35.8	29.3	62.2	12.7
U09-317102	61.4	55.7	34.7	37.7	68.2	16.9
U09-317110	58.8	57.1	38.9	26.8	76.7	13.0
U10-429069	61.5	57.4	45.6	38.5	49.5	18.9
U10-430052	64.7	56.0	51.6	53.4	62.4	20.4
U10-436068	62.5	63.0	51.5	45.3	65.6	19.8
U10-442059	60.5	57.4	52.1	36.7	51.8	20.0
Location Mean		55.8	45.3	43.4	62.9	18.7
C.V. (%)		4.2	12.0	15.0	6.3	5.4
L.S.D. (5%)		4.8	8.9	13.3	8.1	2.1
Row Sp. (In.)		30	30	30	30	30
Rows/Plot		4	4	4	4	4
Reps		2	2	2	2	2

*Data not included in mean.

PRELIMINARY TEST IIIB, 2012

YIELD (bu/a)

Strain	Columbia MO	Clay Center NE	Lincoln NE	Phillips NE	Hoytville OH	South Charleston OH
IA3023 (III)	45.5	75.9	87.6	83.7	77.3	63.3
IA3024	47.7	91.7	84.5	97.8	70.4	59.1
IA3048 (SCN)	52.6	74.9	74.6	77.0	69.1	62.1
IA4005	61.4	83.0	82.3	76.1	78.6	71.9
E10173	33.1	82.1	72.6	81.7	58.0	64.2
E10174	45.3	72.6	80.3	67.6	66.9	57.1
K10-2385	40.1	71.7	79.1	64.3	63.1	62.4
LG08-3607	51.1	79.4	71.5	76.3	60.9	58.0
LG09-7157	46.4	70.4	66.8	78.2	85.7	51.6
LG09-7163	53.3	78.6	78.2	86.1	76.5	62.6
LG09-7431	44.7	75.9	79.7	91.6	68.8	51.5
LG09-7823	54.5	69.2	72.7	60.7	82.3	63.7
LG09-8078	55.6	64.6	69.7	67.0	70.7	51.2
LG09-8165	59.0	76.5	76.8	85.6	73.2	62.8
LG10-2970	45.1	67.3	69.8	89.7	78.3	57.5
U09-107020	36.4	91.6	73.7	97.7	66.8	63.1
U09-204040	38.6	70.5	80.9	92.2	72.2	63.1
U09-213066	41.4	86.8	75.9	89.0	74.4	61.4
U09-219057	33.8	89.8	83.9	81.0	63.6	59.1
U09-224062	19.5	73.3	68.5	57.3	73.6	49.2
U09-225066	33.0	70.0	78.8	92.3	72.7	59.6
U09-227064	26.2	74.4	74.1	77.4	79.1	56.9
U09-315118	35.3	78.6	75.2	73.0	74.7	50.4
U09-315123	25.5	76.2	73.8	93.9	72.9	54.4
U09-317102	27.7	88.4	79.6	91.0	70.5	60.7
U09-317110	28.6	90.3	79.9	56.5	72.7	60.7
U10-429069	41.3	84.9	80.2	78.4	77.3	62.2
U10-430052	42.4	80.1	81.8	80.4	70.1	68.8
U10-436068	46.6	66.5	77.9	76.7	74.2	57.4
U10-442059	31.6	75.2	81.0	90.4	76.9	52.2
Location Mean	41.4	77.7	77.0	80.4	72.4	59.3
C.V. (%)	9.9	6.9	8.1	11.7	11.8	12.6
L.S.D. (5%)	6.7	13.3	15.4	23.2	17.5	10.4
Row Sp. (In.)	30	30	30	30	7.5	15
Rows/Plot	4	4	4	4	8	6
Reps	3	2	2	2	2	2

*Data not included in mean.

PRELIMINARY TEST IIIB, 2012

YIELD RANK

Strain	Yield Rank	Crawfordsville IA	Urbana IL	Lafayette IN	Manhattan KS	Ottawa KS
IA3023 (III)	2	1	2	12	3	19
IA3024	4	8	14	29	7	18
IA3048 (SCN)	5	18	3	1	3	8
IA4005	1	14	1	13	10	3
E10173	21	7	26	24	11	26
E10174	22	23	15	23	22	20
K10-2385	20	25	13	8	18	14
LG08-3607	26	22	11	10	30	6
LG09-7157	17	27	12	5	16	5
LG09-7163	3	3	7	3	15	7
LG09-7431	10	20	4	6	21	2
LG09-7823	14	29	4	2	25	1
LG09-8078	25	28	10	11	24	4
LG09-8165	7	6	18	18	11	8
LG10-2970	17	30	19	9	14	10
U09-107020	8	26	17	21	2	30
U09-204040	11	13	23	15	6	22
U09-213066	9	4	20	7	26	15
U09-219057	13	5	24	17	8	28
U09-224062	30	21	29	27	23	24
U09-225066	27	23	21	19	29	15
U09-227064	28	16	30	25	5	29
U09-315118	22	11	22	16	17	23
U09-315123	29	14	27	28	20	27
U09-317102	16	18	28	22	9	21
U09-317110	24	11	25	30	1	25
U10-429069	15	9	16	20	28	17
U10-430052	6	17	8	4	19	11
U10-436068	12	2	9	14	13	13
U10-442059	19	9	4	26	27	12

PRELIMINARY TEST IIIB, 2012

YIELD RANK

Strain	Columbia MO	Clay Center NE	Lincoln NE	Phillips NE	Hoytville OH	South Charleston OH
IA3023 (III)	11	16	1	13	6	5
IA3024	8	1	2	1	19	17
IA3048 (SCN)	6	19	20	20	21	12
IA4005	1	8	4	23	4	1
E10173	23	9	25	14	28	3
E10174	12	22	8	25	23	22
K10-2385	18	23	13	27	26	10
LG08-3607	7	11	26	22	27	19
LG09-7157	10	25	30	18	1	26
LG09-7163	5	13	15	11	8	9
LG09-7431	14	17	11	6	22	27
LG09-7823	4	27	24	28	2	4
LG09-8078	3	30	28	26	17	28
LG09-8165	2	14	17	12	13	8
LG10-2970	13	28	27	9	5	20
U09-107020	20	2	23	2	24	6
U09-204040	19	24	7	5	16	6
U09-213066	16	6	18	10	10	13
U09-219057	22	4	3	15	25	17
U09-224062	30	21	29	29	12	30
U09-225066	24	26	14	4	15	16
U09-227064	28	20	21	19	3	23
U09-315118	21	12	19	24	9	29
U09-315123	29	15	22	3	14	24
U09-317102	27	5	12	7	18	14
U09-317110	26	3	10	30	15	14
U10-429069	17	7	9	17	6	11
U10-430052	15	10	5	16	20	2
U10-436068	9	29	16	21	11	21
U10-442059	25	18	6	8	7	25

PRELIMINARY TEST IIIB, 2012

MATURITY (date)

Strain	Mean 9 Tests	Crawfordsville IA	Urbana IL	Lafayette IN	Manhattan KS	Ottawa KS
IA3023 (III)	9/26	9/28	9/19	10/2	10/10	
IA3024	-2.3	-2	-2	-3	-7	
IA3048 (SCN)	-1.6	0	2	0	-7	
IA4005	6.6	8	8	8	1	
E10173	-7.6	-5	-10	-12	-10	
E10174	-4.3	-6	-4	-11	-5	
K10-2385	2.7	0	4	5	-1	
LG08-3607	-1.5	-4	2	0	-8	
LG09-7157	2.9	3	7	5	-4	
LG09-7163	0.1	0	2	2	-6	
LG09-7431	1.0	3	4	3	-6	
LG09-7823	5.9	7	14	6	0	
LG09-8078	6.7	6	16	7	-1	
LG09-8165	2.1	3	3	2	-3	
LG10-2970	5.4	3	13	8	-1	
U09-107020	-9.1	-11	-8	-14	-12	
U09-204040	-7.3	-7	-6	-5	-12	
U09-213066	-3.1	-3	-1	2	-8	
U09-219057	-8.8	-7	-9	-13	-13	
U09-224062	-4.9	-4	-3	0	-11	
U09-225066	-5.4	-4	-5	-2	-10	
U09-227064	-6.9	-5	-8	-1	-13	
U09-315118	-8.5	-7	-8	-8	-12	
U09-315123	-5.9	-4	-5	-2	-11	
U09-317102	-7.3	-4	-8	-4	-12	
U09-317110	-7.4	-6	-6	-7	-12	
U10-429069	-2.1	-4	2	1	-8	
U10-430052	-0.9	1	-1	0	-6	
U10-436068	1.2	0	4	8	-6	
U10-442059	0.4	0	4	8	-7	
Date Planted	5/17	5/16	5/15	5/15	6/4	5/29
Days to Mature	133	135	127	140	128	

PRELIMINARY TEST IIIB, 2012

MATURITY (date)

Strain	Columbia MO	Clay Center NE	Lincoln NE	Phillips NE	Hoytville OH	South Charleston OH
IA3023 (III)	9/14	9/14	9/28		10/13	9/24
IA3024	1	0	-1		-4	-4
IA3048 (SCN)	1	0	4		-9	-5
IA4005	7	9	7		5	7
E10173	-2	-3	-7		-12	-7
E10174	-0	2	-2		-7	-5
K10-2385	-1	5	7		2	4
LG08-3607	0	3	-3		-7	2
LG09-7157	3	4	1		2	6
LG09-7163	4	-2	-1		-2	3
LG09-7431	3	-1	6		-2	-1
LG09-7823	5	5	6		3	8
LG09-8078	8	7	7		3	8
LG09-8165	6	3	5		0	1
LG10-2970	7	6	5		1	7
U09-107020	-5	-3	-9		-13	-9
U09-204040	-3	-3	-5		-14	-11
U09-213066	-3	-1	-7		-6	-3
U09-219057	-8	-1	-2		-15	-11
U09-224062	-8	-4	2		-9	-8
U09-225066	-5	-3	-5		-8	-8
U09-227064	-9	-5	-1		-10	-11
U09-315118	-8	-6	-6		-11	-11
U09-315123	-7	-3	-7		-9	-6
U09-317102	-8	-3	-7		-10	-10
U09-317110	-8	-5	-4		-9	-11
U10-429069	-0	-2	0		-5	-3
U10-430052	-1	-1	6		-3	-3
U10-436068	0	0	4		2	-1
U10-442059	1	0	-1		2	-4
Date Planted	5/16	5/11	5/18	5/8	5/15	5/11
Days to Mature	121	126	133		151	136

PRELIMINARY TEST IIIB, 2012

LODGING (score)

Strain	Mean 9 Tests	Crawfordsville IA	Urbana IL	Lafayette IN	Manhattan KS	Ottawa KS
IA3023 (III)	1.9	2.5	1.0	1.0	5.0	1.0
IA3024	1.8	2.5	1.3	1.0	5.0	1.0
IA3048 (SCN)	2.0	2.3	1.5	1.0	5.0	1.0
IA4005	1.6	2.0	1.0	1.0	4.0	1.0
E10173	1.8	1.8	1.0	1.0	5.0	1.0
E10174	2.2	2.3	1.8	1.0	5.0	1.0
K10-2385	2.1	1.8	1.5	1.0	5.0	1.0
LG08-3607	2.1	2.5	1.5	1.0	5.0	1.0
LG09-7157	1.8	2.3	1.3	1.0	5.0	1.0
LG09-7163	1.9	2.5	1.5	1.0	5.0	1.0
LG09-7431	1.9	2.0	1.5	1.0	5.0	1.0
LG09-7823	2.6	3.0	3.0	1.0	5.0	1.0
LG09-8078	2.5	2.5	2.8	1.0	5.0	1.0
LG09-8165	1.8	2.3	1.3	1.0	4.0	1.0
LG10-2970	3.0	3.0	2.8	1.5	5.0	2.0
U09-107020	2.1	2.0	1.8	1.0	5.0	1.0
U09-204040	1.6	2.0	1.5	1.0	4.0	1.0
U09-213066	1.9	2.3	1.3	1.0	5.0	1.0
U09-219057	2.0	2.3	1.3	1.0	5.0	1.0
U09-224062	1.7	2.0	1.0	1.0	5.0	1.0
U09-225066	1.8	2.0	1.3	1.0	5.0	1.0
U09-227064	1.8	2.0	1.5	1.0	5.0	1.0
U09-315118	1.9	2.5	1.5	1.0	5.0	1.0
U09-315123	1.8	2.0	1.0	1.0	5.0	1.0
U09-317102	1.8	1.8	1.5	1.0	5.0	1.0
U09-317110	1.8	1.8	1.3	1.0	5.0	1.0
U10-429069	1.7	2.5	1.3	1.0	5.0	1.0
U10-430052	1.8	2.5	1.8	1.0	5.0	1.0
U10-436068	1.9	2.0	1.5	1.0	5.0	1.0
U10-442059	1.7	1.8	1.0	1.0	5.0	1.0

PRELIMINARY TEST IIIB, 2012

LODGING (score)

Strain	Columbia MO	Clay Center NE	Lincoln NE	Phillips NE	Hoytville OH	South Charleston OH
IA3023 (III)	1.5	3.0			1.0	1.0
IA3024	1.5	2.0			1.0	1.0
IA3048 (SCN)	1.5	3.0			1.0	1.8
IA4005	1.7	2.0			1.0	1.0
E10173	1.5	2.0			1.0	1.8
E10174	1.5	5.0			1.0	1.5
K10-2385	1.7	4.0			1.0	1.8
LG08-3607	1.8	3.0			1.0	2.0
LG09-7157	1.5	1.0			1.0	2.0
LG09-7163	1.5	2.0			1.0	1.8
LG09-7431	1.7	3.0			1.0	1.3
LG09-7823	2.0	4.0			1.0	3.5
LG09-8078	1.8	4.0			1.0	3.0
LG09-8165	1.5	2.0			1.0	2.5
LG10-2970	2.0	5.0			1.0	5.0
U09-107020	1.5	3.0			1.0	2.3
U09-204040	1.5	1.0			1.0	1.3
U09-213066	1.5	2.0			1.0	2.0
U09-219057	1.5	3.0			1.0	1.8
U09-224062	1.5	2.0			1.0	1.0
U09-225066	1.5	2.0			1.0	1.5
U09-227064	1.5	2.0			1.0	1.0
U09-315118	1.5	2.0			1.0	1.3
U09-315123	1.5	2.0			1.0	1.8
U09-317102	1.5	2.0			1.0	1.0
U09-317110	1.5	2.0			1.0	1.3
U10-429069	1.5	1.0			1.0	1.0
U10-430052	1.5	1.0			1.0	1.5
U10-436068	1.5	3.0			1.0	1.0
U10-442059	1.5	2.0			1.0	1.0

PRELIMINARY TEST IIIB, 2012

PLANT HEIGHT (inches)

Strain	Mean 9 Tests	Crawfordsville IA	Urbana IL	Lafayette IN	Manhattan KS	Ottawa KS
IA3023 (III)	36	38	39	33	47	24
IA3024	38	43	36	34	47	30
IA3048 (SCN)	37	41	34	34	46	28
IA4005	35	39	35	30	43	26
E10173	33	38	30	31	41	24
E10174	37	45	36	36	46	27
K10-2385	31	33	30	29	40	22
LG08-3607	37	42	35	38	41	27
LG09-7157	42	47	39	41	54	32
LG09-7163	39	43	36	38	49	30
LG09-7431	37	44	39	35	46	28
LG09-7823	38	44	32	39	46	27
LG09-8078	43	46	40	41	55	30
LG09-8165	41	48	37	37	52	29
LG10-2970	47	51	46	47	59	36
U09-107020	34	39	35	34	45	23
U09-204040	35	41	32	36	46	26
U09-213066	36	40	33	38	45	27
U09-219057	36	37	34	36	46	27
U09-224062	36	40	34	34	47	26
U09-225066	36	42	34	35	43	27
U09-227064	34	38	26	30	46	26
U09-315118	39	42	34	37	47	30
U09-315123	37	42	31	36	49	28
U09-317102	34	40	28	30	44	26
U09-317110	34	38	34	29	45	24
U10-429069	35	39	39	33	44	27
U10-430052	33	38	34	34	40	25
U10-436068	35	41	34	31	45	23
U10-442059	34	39	32	31	45	24

PRELIMINARY TEST IIIB, 2012

PLANT HEIGHT (inches)

Strain	Columbia MO	Clay Center NE	Lincoln NE	Phillips NE	Hoytville OH	South Charleston OH
IA3023 (III)	27	45			33	37
IA3024	31	47			34	37
IA3048 (SCN)	32	43			35	38
IA4005	28	49			34	34
E10173	26	41			30	38
E10174	30	42			33	42
K10-2385	24	42			30	33
LG08-3607	31	43			34	38
LG09-7157	36	49			39	42
LG09-7163	32	49			34	39
LG09-7431	30	45			34	37
LG09-7823	33	47			40	36
LG09-8078	38	53			40	43
LG09-8165	35	52			37	43
LG10-2970	42	52			42	48
U09-107020	26	43			28	36
U09-204040	28	42			32	35
U09-213066	30	44			30	37
U09-219057	27	49			32	36
U09-224062	28	48			35	35
U09-225066	28	44			34	38
U09-227064	26	45			32	35
U09-315118	32	50			36	39
U09-315123	29	49			37	36
U09-317102	26	50			29	34
U09-317110	26	47			30	37
U10-429069	31	41			30	36
U10-430052	28	36			29	32
U10-436068	30	43			33	35
U10-442059	24	45			33	34

PRELIMINARY TEST IIIB, 2012

SEED QUALITY (score)

Strain	Mean 8 Tests	Crawfordsville IA	Urbana IL	Lafayette IN	Manhattan KS	Ottawa KS
IA3023 (III)	1.6	1.0	1.0	1.5	2.0	3.0
IA3024	2.5	3.0	2.0	3.0	3.0	2.0
IA3048 (SCN)	2.2	3.0	1.0	2.0	3.0	2.0
IA4005	1.6	2.0	1.0	2.0	2.0	2.0
E10173	2.9	3.0	3.0	3.0	3.0	4.0
E10174	3.1	3.0	3.0	3.0	3.0	4.0
K10-2385	2.3	4.0	1.0	2.0	3.0	3.0
LG08-3607	2.1	3.0	2.0	2.0	3.0	2.0
LG09-7157	2.3	4.0	2.0	1.5	3.0	2.0
LG09-7163	1.9	3.0	1.0	1.5	2.1	3.0
LG09-7431	1.7	2.0	1.0	2.0	2.1	2.0
LG09-7823	2.0	3.0	1.0	1.0	2.0	3.0
LG09-8078	2.1	4.0	2.0	1.5	2.0	2.0
LG09-8165	2.1	3.0	2.0	3.0	2.0	2.0
LG10-2970	2.5	4.0	3.0	2.0	4.0	2.0
U09-107020	2.5	3.0	2.0	2.5	2.0	4.0
U09-204040	2.0	3.0	2.0	2.0	3.0	2.0
U09-213066	2.3	2.0	2.0	2.5	3.0	3.0
U09-219057	2.5	3.0	3.0	2.5	3.0	3.0
U09-224062	2.2	3.0	2.0	2.0	3.0	2.0
U09-225066	2.1	3.0	1.0	2.5	3.0	3.0
U09-227064	2.0	2.0	2.0	2.0	3.0	2.0
U09-315118	1.9	2.0	2.0	2.0	3.0	3.0
U09-315123	2.3	2.0	2.0	2.0	4.0	4.0
U09-317102	2.2	4.0	2.0	2.0	3.0	3.0
U09-317110	2.1	3.0	2.0	2.0	3.0	2.0
U10-429069	2.3	2.0	2.0	2.0	3.0	3.0
U10-430052	2.1	2.0	2.0	2.5	3.0	2.0
U10-436068	2.1	3.0	2.0	2.0	3.0	2.0
U10-442059	2.1	2.0	2.0	1.5	4.0	2.0

PRELIMINARY TEST IIIB, 2012

SEED QUALITY (score)

Strain	Columbia MO	Clay Center NE	Lincoln NE	Phillips NE	Hoytville OH	South Charleston OH
IA3023 (III)	1.5				1.0	1.5
IA3024	1.8				3.0	2.0
IA3048 (SCN)	1.8				2.0	2.5
IA4005	1.7				1.0	1.5
E10173	3.8				1.0	2.5
E10174	3.5				2.0	3.0
K10-2385	1.5				1.0	2.5
LG08-3607	1.5				1.0	2.5
LG09-7157	1.7				1.0	3.0
LG09-7163	1.8				1.0	2.0
LG09-7431	1.7				1.0	1.5
LG09-7823	2.2				1.0	2.5
LG09-8078	1.5				1.0	3.0
LG09-8165	1.7				1.0	2.0
LG10-2970	1.7				1.0	2.5
U09-107020	2.7				2.0	1.5
U09-204040	1.8				1.0	1.5
U09-213066	2.0				2.0	2.0
U09-219057	2.7				1.0	1.5
U09-224062	2.0				1.0	2.5
U09-225066	1.5				1.0	2.0
U09-227064	2.0				1.0	2.0
U09-315118	1.5				1.0	1.0
U09-315123	1.8				1.0	1.5
U09-317102	1.8				1.0	1.0
U09-317110	1.7				1.0	2.0
U10-429069	3.0				1.0	2.5
U10-430052	1.8				2.0	1.5
U10-436068	1.8				1.0	2.0
U10-442059	1.8				1.0	2.5

PRELIMINARY TEST IIIB, 2012

SEED SIZE (g/100)

Strain	Mean 10 Tests	Crawfordsville IA	Urbana IL	Lafayette IN	Manhattan KS	Ottawa KS
IA3023 (III)	16.4	15.5	17.1	16.6	19.8	14.0
IA3024	17.2	15.6	17.0	16.8	19.5	14.4
IA3048 (SCN)	16.1	13.9	16.8	18.1	16.5	13.9
IA4005	15.0	13.4	17.1	15.6	17.5	13.4
E10173	16.7	9.2	16.7	17.1	22.4	12.8
E10174	18.5	17.7	17.9	17.9	22.4	13.2
K10-2385	16.2	14.4	17.8	17.3	18.3	13.9
LG08-3607	17.6	16.0	19.0	19.2	21.5	15.6
LG09-7157	16.0	12.9	19.5	15.6	19.3	15.8
LG09-7163	16.0	14.7	17.5	16.7	17.9	15.3
LG09-7431	15.0	14.0	16.5	16.6	16.8	13.0
LG09-7823	16.4	14.4	19.9	18.0	18.5	15.8
LG09-8078	17.0	14.2	19.7	16.6	19.5	19.0
LG09-8165	16.7	15.2	18.8	16.6	18.7	15.7
LG10-2970	18.7	17.2	21.0	19.2	21.4	19.8
U09-107020	16.5	15.2	15.5	14.8	19.1	13.9
U09-204040	15.0	13.4	14.1	15.6	17.3	13.6
U09-213066	16.7	14.6	16.8	18.4	19.7	14.8
U09-219057	16.9	16.3	15.7	16.0	21.6	13.2
U09-224062	13.4	12.4	13.4	13.4	16.7	12.8
U09-225066	16.1	15.1	15.2	16.4	19.6	14.0
U09-227064	13.0	12.0	11.8	14.8	15.0	11.7
U09-315118	15.0	13.8	14.1	16.3	17.6	14.5
U09-315123	15.1	13.6	14.5	15.4	17.2	14.3
U09-317102	13.3	12.7	12.7	14.4	15.7	11.5
U09-317110	12.8	12.0	12.0	13.6	14.0	11.0
U10-429069	15.7	14.3	16.8	16.3	17.2	13.6
U10-430052	15.8	13.9	16.1	17.9	17.8	13.9
U10-436068	15.9	15.5	16.2	18.4	18.5	15.7
U10-442059	16.6	14.5	19.1	17.9	20.1	15.3

PRELIMINARY TEST IIIB, 2012

SEED SIZE (g/100)

Strain	Columbia MO	Clay Center NE	Lincoln NE	Phillips NE	Hoytville OH	South Charleston OH
IA3023 (III)	15.3	15.7		14.7	17.5	17.4
IA3024	15.5	19.3		18.4	18.1	17.5
IA3048 (SCN)	15.6	17.9		15.2	16.9	16.1
IA4005	14.7	12.8		13.9	16.0	15.7
E10173	15.8	14.8		19.3	19.6	19.8
E10174	16.4	19.6		19.7	19.4	20.6
K10-2385	14.1	21.8		12.8	16.1	15.9
LG08-3607	15.9	14.5		16.7	19.3	18.7
LG09-7157	15.0	18.5		14.3	15.4	14.1
LG09-7163	15.8	14.5		15.4	16.4	16.0
LG09-7431	12.9	13.7		15.4	16.0	15.0
LG09-7823	15.2	14.8		14.8	16.8	15.7
LG09-8078	17.3	14.0		17.1	16.9	15.9
LG09-8165	16.2	15.3		16.8	16.2	17.8
LG10-2970	17.0	15.2		18.8	18.3	19.4
U09-107020	15.8	17.9		16.9	18.3	17.4
U09-204040	13.7	14.4		16.5	16.5	15.3
U09-213066	14.6	17.0		17.5	17.2	16.5
U09-219057	15.5	18.6		17.1	17.2	17.8
U09-224062	10.3	14.3		12.4	14.2	13.9
U09-225066	13.9	15.6		17.1	17.2	16.4
U09-227064	12.1	13.5		12.8	13.8	13.0
U09-315118	12.8	14.3		14.5	15.6	16.1
U09-315123	13.1	14.3		16.4	16.1	16.0
U09-317102	12.5	13.5		14.2	13.9	12.4
U09-317110	11.8	14.0		11.8	14.5	13.2
U10-429069	12.9	16.0		16.1	17.1	16.8
U10-430052	14.2	16.6		14.5	16.5	16.9
U10-436068	13.6	14.2		13.4	17.4	16.0
U10-442059	13.9	14.2		15.8	18.3	17.1

PRELIMINARY TEST IIIB, 2012

PROTEIN (%)

Strain	Mean 9 Tests	Crawfordsville IA	Urbana IL	Lafayette IN	Manhattan KS	Columbia MO	Clay Center NE	Phillips NE	Hoytville OH	South Charleston OH
IA3023 (III)	33.9	33.8	32.0	33.9	35.7	32.7	34.2	33.9	35.4	33.0
IA3024	34.5	35.2	33.0	36.7	35.5	33.0	34.7	33.3	36.2	33.2
IA3048 (SCN)	34.7	35.1	33.3	37.7	33.9	33.2	35.3	34.2	35.4	34.4
IA4005	34.8	33.6	33.6	37.0	35.7	33.3	34.9	34.4	35.9	34.5
E10173	35.1	35.3	33.4	36.3	35.7	35.0	35.2	34.2	35.6	35.6
E10174	34.0	34.1	32.1	35.1	34.7	33.3	34.3	33.7	34.8	34.0
K10-2385	36.1	35.7	34.7	38.2	36.5	35.1	36.4	36.2	37.1	35.4
LG08-3607	35.2	35.1	33.4	36.9	36.5	32.7	35.1	35.3	36.1	35.3
LG09-7157	35.9	35.7	35.6	38.8	35.9	34.2	35.9	35.0	37.1	35.2
LG09-7163	36.2	37.4	34.4	38.8	36.7	35.2	35.4	34.7	37.7	35.7
LG09-7431	34.6	35.0	32.3	36.6	34.5	33.1	35.5	35.4	34.7	34.1
LG09-7823	34.8	35.2	34.3	36.4	34.5	32.8	35.0	35.3	35.0	35.1
LG09-8078	36.2	35.9	36.0	38.1	35.8	34.2	36.6	35.4	37.2	36.4
LG09-8165	35.3	35.9	34.0	38.1	35.4	33.4	34.7	33.8	37.0	35.8
LG10-2970	36.2	36.6	35.8	38.6	35.9	33.9	35.8	36.4	36.9	36.3
U09-107020	34.4	33.7	32.1	35.5	35.5	34.3	34.7	33.9	34.7	35.2
U09-204040	34.1	33.4	32.3	35.7	35.0	33.4	34.1	33.9	34.5	34.5
U09-213066	33.9	33.8	32.2	36.2	34.6	32.1	34.0	33.2	35.2	33.7
U09-219057	34.1	33.6	32.3	34.5	35.4	33.2	34.5	34.3	34.1	35.3
U09-224062	33.8	33.8	33.3	35.7	34.0	32.7	33.9	33.5	32.7	34.4
U09-225066	33.6	33.7	30.8	36.1	34.9	32.3	33.5	33.6	33.9	33.2
U09-227064	34.1	34.9	31.7	36.4	34.1	33.1	33.6	34.1	34.7	34.4
U09-315118	33.8	33.5	32.5	35.3	35.6	32.4	33.8	33.6	33.8	33.7
U09-315123	34.1	33.8	32.4	36.4	35.4	33.2	33.7	33.0	35.2	34.0
U09-317102	34.4	34.8	33.1	36.7	34.6	33.4	34.0	33.7	35.3	34.0
U09-317110	34.1	34.0	32.1	35.9	34.1	33.6	34.2	33.4	34.7	34.4
U10-429069	34.6	35.2	33.5	36.0	35.3	33.1	34.8	33.9	35.2	34.4
U10-430052	34.6	34.5	33.1	36.1	35.3	33.6	35.1	34.3	35.5	33.8
U10-436068	36.0	36.0	34.4	38.9	36.5	33.9	35.9	35.5	37.7	35.0
U10-442059	36.3	35.7	34.8	38.7	37.1	34.8	35.5	36.3	37.5	36.4

PRELIMINARY TEST IIIB, 2012

OIL (%)

Strain	Mean 9 Tests	Crawfordsville IA	Urbana IL	Lafayette IN	Manhattan KS	Columbia MO	Clay Center NE	Phillips NE	Hoytville OH	South Charleston OH
IA3023 (III)	19.5	19.3	20.5	19.6	18.8	20.5	19.2	18.8	19.1	19.8
IA3024	19.2	18.5	20.5	18.5	18.6	20.8	18.6	19.0	18.6	19.7
IA3048 (SCN)	19.0	18.4	20.2	17.9	19.2	20.3	18.3	18.7	19.0	19.0
IA4005	18.9	18.9	20.3	18.1	18.5	20.4	18.2	18.4	18.5	19.3
E10173	19.3	19.2	20.3	19.1	19.2	19.1	19.2	19.5	19.4	19.1
E10174	20.1	20.3	21.4	19.7	19.7	20.5	19.5	19.9	19.6	20.0
K10-2385	18.6	18.1	19.9	17.7	18.2	20.0	18.1	18.2	18.1	19.0
LG08-3607	19.3	18.8	20.7	18.5	19.1	20.7	19.1	18.7	19.1	19.5
LG09-7157	18.8	18.4	19.5	17.7	19.1	19.9	18.5	19.0	17.9	18.8
LG09-7163	18.7	18.0	20.1	17.7	18.9	19.5	18.4	18.7	18.1	18.8
LG09-7431	18.9	18.5	20.2	18.0	19.1	19.6	18.2	18.7	18.9	18.9
LG09-7823	18.2	17.8	18.8	17.8	18.4	19.4	17.8	17.8	17.9	18.4
LG09-8078	18.5	18.3	19.1	17.8	18.7	19.7	17.9	18.9	18.0	18.2
LG09-8165	18.5	18.3	19.8	17.6	18.6	19.6	18.0	18.7	17.8	18.6
LG10-2970	18.7	18.3	19.4	17.8	18.9	20.0	18.9	18.5	18.3	18.6
U09-107020	19.3	19.3	20.9	19.1	18.6	19.6	18.6	18.9	19.3	19.0
U09-204040	19.9	19.8	21.1	19.4	19.6	20.3	19.6	19.7	19.8	19.7
U09-213066	19.3	19.3	20.7	18.5	19.0	20.4	18.6	18.8	18.9	19.3
U09-219057	20.5	20.5	21.7	20.5	19.9	21.5	20.0	20.0	20.6	20.1
U09-224062	19.6	19.1	21.0	18.8	19.4	20.8	19.0	19.2	19.9	19.2
U09-225066	19.8	19.2	21.6	19.1	19.3	21.0	19.3	19.2	19.8	19.8
U09-227064	19.7	19.0	21.8	19.3	19.9	21.1	19.2	18.7	19.1	19.3
U09-315118	19.5	19.2	20.7	19.3	19.0	20.7	18.7	18.8	19.3	19.3
U09-315123	19.5	19.0	20.9	19.2	18.8	20.5	19.1	19.3	19.2	19.7
U09-317102	19.5	19.1	20.7	19.1	19.6	20.8	19.3	19.3	18.9	19.1
U09-317110	19.5	19.0	21.3	19.2	19.5	20.5	18.6	19.1	19.4	19.1
U10-429069	19.6	18.8	20.4	19.2	19.5	20.2	19.3	19.6	19.3	19.8
U10-430052	19.8	19.6	21.0	19.4	19.5	20.1	19.3	19.0	19.4	20.5
U10-436068	19.3	19.1	20.4	18.3	19.3	20.4	18.9	19.0	18.6	19.7
U10-442059	18.7	18.4	20.1	17.9	18.6	19.9	18.4	18.0	18.5	18.8

Uniform Test IV, 2012

Ent.	Strain	Parentage	Seed Source	Previous Testing	Gen. Comp.	Unique Traits
1	LD00-3309 (IV)	Maverick x Dwight	Diers	7	F5	SCN
2.	IA4005	IA3023 x IA3025	Fehr	1		1% linolenic
3.	LD00-2817P (L)	Ina x Dwight	Diers	5	F5	SCN
4.	LD06-7620	IA3023 x LD00- 3309	Diers	2	F5	SCN
5.	LG09-7250	F6 LG00-3372 x LG02-4042	Nelson	PTIIIB	F6	Diversity
6.	LG09-8595	F6 LG00-8301 x LN97-15076	Nelson	PTIV	F6	Diversity
7.	LS07-1343	LN97-15076 X LD02-4485	Klein	1	F5	SCN
8.	LS07-2935	SS98-7851 x LD00-3309	Klein	1	F5	SCN
9.	LS07-3125	SS98-7851 x LD00-3309	Klein	1	F5	SCN
10.	LS07-3131	SS98-7851 x LD00-3309	Klein	1	F5	SCN
11.	LS08-5837	LS93-0375 x LS98-0582	Klein	PTIV	F6	SCN
12.	LS08-6034	MD96-5722 x LS01-0971	Klein	11 SCNPTIV	F6	

UNIFORM TEST IV, 2012

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	Shattering Score Manhattan KS	Shattering Score Ottawa KS	Green Stem Score Jackson TN	SDS DX Valmeyer IL
LD00-3309 (IV)	PTBDYBlI	1.0	1.0	1.0	2.2
IA4005	WLtTDYBlI	1.0	1.0	1.0	41.7
LD00-2817P (L)	PGBDYIbI	1.0	1.0	1.0	1.4
LD06-7620	PLtBDYBlI	1.0	1.0	1.7	20.6
LG09-7250	WGBDYIbI	1.0	1.0	2.0	50.0
LG09-8595	WTBDYBlI	1.0	1.0	2.7	63.9
LS07-1343	WTBDYBl+BrI	1.0	1.0	2.3	31.7
LS07-2935	PTBIYBlI	1.0	1.0	1.7	8.9
LS07-3125	WGBDYBfI	1.0	1.0	2.0	21.1
LS07-3131	PGBDYIbI	1.0	1.0	2.0	5.6
LS08-5837	WTTDYBlI	1.0	1.0	1.0	11.7
LS08-6034	PGBDYIbI	1.0	1.0	3.0	3.9
Ripley(res)					6.1
Spencer(sus)					58.3
LS94-3207(res)					5.3
S03-007CR(sus)					69.4
P>F					0.0044
LSD					35.0

UNIFORM TEST IV, 2012

REGIONAL SUMMARY

No. of Tests Strain	Yield 10 bu/a	Rank 10 No.	Maturity 9 Date	Lodging 10 Score	Plant Height 10 In.	Seed Quality 10 Score	Seed Size 10 g/100	Composition Protein 9 %	 Oil 9 %
LD00-3309 (IV)	48.8	9	9/22	1.8	35	1.9	13.4	34.3	19.3
IA4005	51.3	5	1.7	1.8	32	1.8	15.2	34.7	19.9
LD00-2817P (L)	50.4	6	8.0	2.0	37	2.5	14.6	33.4	20.0
LD06-7620	48.1	10	0.8	1.8	31	2.2	15.2	34.8	19.5
LG09-7250	45.5	12	1.5	2.0	38	2.7	18.7	35.7	19.4
LG09-8595	48.1	10	4.9	2.1	37	1.9	17.2	35.2	19.6
LS07-1343	51.5	3	0.8	2.2	35	2.3	16.4	33.5	19.8
LS07-2935	52.0	2	6.7	2.2	43	2.2	17.2	34.9	19.3
LS07-3125	51.5	3	4.9	1.7	37	1.9	14.6	34.4	19.8
LS07-3131	53.8	1	8.1	1.9	40	1.9	17.2	34.4	19.8
LS08-5837	49.7	7	4.8	2.0	40	1.9	16.1	35.0	19.0
LS08-6034	49.6	8	11.3	2.2	42	2.1	18.7	36.2	18.9

130.1 Days After Planting

UNIFORM TEST IV, 2012

2011-2012 2-YEAR MEAN

No. of Tests Strain	Yield 20 bu/a	Rank 20 No.	Maturity 19 Date	Lodging 23 Score	Plant Height 23 In.	Seed Quality 22 Score	Seed Size 22 g/100	Composition Protein * %	 Oil * %
LD00-3309 (IV)	52.1	8	9/23	1.6	35	1.9	12.4		
IA4005	55.8	2	2.3	1.5	32	1.8	14.1		
LD00-2817P (L)	52.7	7	6.8	1.8	37	2.3	13.2		
LD06-7620	53.6	6	1.0	1.6	31	2.1	14.1		
LS07-1343	55.6	3	2.0	2.3	35	2.1	15.0		
LS07-2935	54.1	5	6.7	2.1	42	2.1	16.0		
LS07-3125	54.7	4	4.5	1.5	37	1.8	13.5		
LS07-3131	55.9	1	8.2	1.8	39	1.8	15.6		

126.6 Days After Planting

* **Note:** Protein & Oil Analysis by USDA Peoria, IL lab were not provided for Uniform Test IV in 2011.

UNIFORM TEST IV, 2012

YIELD (bu/a)

Strain	Mean 10 Tests	Belleville IL	Harrisburg IL	Brownstown IL	Urbana IL	Lafayette IN	Butlerville IN
LD00-3309 (IV)	48.8			52.9	59.6	44.1	44.9
IA4005	51.3			53.8	57.1	44.0	45.7
LD00-2817P (L)	50.4			56.8	56.9	52.2	50.3
LD06-7620	48.1			48.5	59.0	42.8	48.6
LG09-7250	45.5			56.6	47.8	43.9	50.5
LG09-8595	48.1			58.7	54.5	37.6	48.3
LS07-1343	51.5			55.4	63.0	47.3	54.3
LS07-2935	52.0			57.8	51.2	44.8	57.4
LS07-3125	51.5			61.0	53.8	43.5	53.5
LS07-3131	53.8			61.2	60.9	53.2	55.2
LS08-5837	49.7			58.4	54.5	49.6	50.0
LS08-6034	49.6			68.0	45.4	45.8	56.0
Location Mean		#DIV/0!	#DIV/0!	57.4	55.3	45.7	51.2
C.V. (%)				7.1	10.8	11.4	7.7
L.S.D. (5%)				7.3	10.8	8.9	6.7
Row Sp. (In.)		30	30	30	30	30	30
Rows/Plot		4	4	4	4	4	4
Reps		3	3	2	2	3	3

UNIFORM TEST IV, 2012

YIELD RANK

Strain	Yield Rank	Belleville IL	Harrisburg IL	Brownstown IL	Urbana IL	Lafayette IN	Butlerville IN
LD00-3309 (IV)	9			11	3	7	12
IA4005	5			10	5	8	11
LD00-2817P (L)	6			7	6	2	7
LD06-7620	10			12	4	11	9
LG09-7250	12			8	11	9	6
LG09-8595	10			4	8	12	10
LS07-1343	3			9	1	4	4
LS07-2935	2			6	10	6	1
LS07-3125	3			3	9	10	5
LS07-3131	1			2	2	1	3
LS08-5837	7			5	7	3	8
LS08-6034	8			1	12	5	2

UNIFORM TEST IV, 2012

YIELD (bu/a)

Strain	Manhattan KS	Ottawa KS	Columbia MO	Portageville (Clay) MO	Portageville (Loam) MO	Jackson TN
LD00-3309 (IV)	57.6	19.3	61.0	38.6	59.9	50.4
IA4005	68.4	22.4	68.3	51.8	54.0	47.3
LD00-2817P (L)	60.1	20.9	56.9	43.4	50.8	55.3
LD06-7620	65.4	19.7	62.3	39.8	50.1	44.6
LG09-7250	52.8	21.2	58.2	35.5	48.0	40.5
LG09-8595	58.3	22.0	60.2	40.7	54.4	46.2
LS07-1343	61.1	26.7	74.0	32.5	55.4	45.3
LS07-2935	60.7	22.8	67.1	49.6	54.1	54.3
LS07-3125	68.7	22.8	64.3	46.0	52.9	48.9
LS07-3131	60.9	25.5	65.2	46.7	57.4	51.9
LS08-5837	53.2	23.2	57.1	44.7	53.8	52.1
LS08-6034	51.9	30.9	60.1	48.4	44.9	45.0
Location Mean	59.9	23.1	62.9	43.1	53.0	48.5
C.V. (%)	7.0	6.3	8.1	9.2	8.8	11.9
L.S.D. (5%)	7.2	2.4	8.6	8.2	9.5	9.8
Row Sp. (In.)	30	30	30	30	30	30
Rows/Plot	4	4	4	4	4	4
Reps	3	3	3	3	3	3

UNIFORM TEST IV, 2012

YIELD RANK

Strain	Manhattan KS	Ottawa KS	Columbia MO	Portageville (Clay) MO	Portageville (Loam) MO	Jackson TN
LD00-3309 (IV)	9	12	7	10	1	5
IA4005	2	7	2	1	6	7
LD00-2817P (L)	7	10	12	7	9	1
LD06-7620	3	11	6	9	10	11
LG09-7250	11	9	10	11	11	12
LG09-8595	8	8	8	8	4	8
LS07-1343	4	2	1	12	3	9
LS07-2935	6	5	3	2	5	2
LS07-3125	1	5	5	5	8	6
LS07-3131	5	3	4	4	2	4
LS08-5837	10	4	11	6	7	3
LS08-6034	12	1	9	3	12	10

UNIFORM TEST IV, 2012

MATURITY (date)

Strain	Mean 9 Tests	Belleville IL	Harrisburg IL	Brownstown IL	Urbana IL	Lafayette IN	Butlerville IN
LD00-3309 (IV)	9/22			9/30	9/28	10/3	9/22
IA4005	1.7			1	-2	0	2
LD00-2817P (L)	8.0			8	5	10	11
LD06-7620	0.8			0	-1	1	0
LG09-7250	1.5			1	-1	-1	3
LG09-8595	4.9			0	3	3	9
LS07-1343	0.8			-2	1	1	3
LS07-2935	6.7			4	9	7	10
LS07-3125	4.9			3	3	10	10
LS07-3131	8.1			5	12	12	14
LS08-5837	4.8			1	5	8	8
LS08-6034	11.3			10	16	12	15
Date Planted	5/15			5/17	5/15	5/15	5/22
Days to Mature	130			136	136	141	123

UNIFORM TEST IV, 2012

LODGING (score)

Strain	Mean 10 Tests	Belleville IL	Harrisburg IL	Brownstown IL	Urbana IL	Lafayette IN	Butlerville IN
LD00-3309 (IV)	1.8			1.3	1.0	1.0	1.0
IA4005	1.8			1.3	1.0	1.0	1.0
LD00-2817P (L)	2.0			1.3	1.5	1.0	1.0
LD06-7620	1.8			1.3	1.3	1.0	1.0
LG09-7250	2.0			1.8	1.8	1.0	1.2
LG09-8595	2.1			1.5	1.5	1.0	1.0
LS07-1343	2.2			1.5	1.5	1.0	1.0
LS07-2935	2.2			2.0	1.8	1.0	1.0
LS07-3125	1.7			1.3	1.0	1.0	1.0
LS07-3131	1.9			1.0	1.5	1.0	1.0
LS08-5837	2.0			1.8	1.5	1.0	1.0
LS08-6034	2.2			1.5	2.0	1.0	1.5

UNIFORM TEST IV, 2012

MATURITY (date)

Strain	Manhattan KS	Ottawa KS	Columbia MO	Portageville (Clay) MO	Portageville (Loam) MO	Jackson TN
LD00-3309 (IV)	10/10		9/14	9/15	9/12	9/7
IA4005	8		4	1	2	-1
LD00-2817P (L)	9		10	7	7	4
LD06-7620	1		5	0	1	0
LG09-7250	2		7	0	1	1
LG09-8595	3		7	2	5	12
LS07-1343	0		6	0	-4	2
LS07-2935	3		9	7	4	7
LS07-3125	5		6	0	2	5
LS07-3131	7		11	2	3	7
LS08-5837	3		10	2	2	4
LS08-6034	9		15	8	4	12
Date Planted	6/4	5/29	5/16	4/23	5/1	5/9
Days to Mature	128		121	145	134	121

UNIFORM TEST IV, 2012

LODGING (score)

Strain	Manhattan KS	Ottawa KS	Columbia MO	Portageville (Clay) MO	Portageville (Loam) MO	Jackson TN
LD00-3309 (IV)	5.0	1.0	1.5	2.0	2.0	2.0
IA4005	5.0	1.0	1.5	3.0	2.0	1.0
LD00-2817P (L)	5.0	1.0	1.7	3.0	2.0	2.7
LD06-7620	5.0	1.0	1.5	2.0	2.0	2.0
LG09-7250	5.0	1.0	1.7	2.0	2.0	3.0
LG09-8595	5.0	1.0	2.0	3.0	2.0	3.0
LS07-1343	5.0	1.0	2.2	3.0	2.0	3.7
LS07-2935	5.0	1.0	2.2	3.0	2.0	3.0
LS07-3125	5.0	1.0	1.5	2.0	2.0	1.0
LS07-3131	5.0	1.0	1.7	3.0	2.0	2.3
LS08-5837	5.0	1.0	2.2	2.0	2.0	2.3
LS08-6034	5.0	1.0	2.7	3.0	2.0	2.7

UNIFORM TEST IV, 2012

PLANT HEIGHT (inches)

Strain	Mean 10 Tests	Belleville IL	Harrisburg IL	Brownstown IL	Urbana IL	Lafayette IN	Butlerville IN
LD00-3309 (IV)	35			28	40	36	30
IA4005	32			26	36	31	28
LD00-2817P (L)	37			29	39	36	36
LD06-7620	31			24	32	32	30
LG09-7250	38			30	41	39	42
LG09-8595	37			32	42	37	37
LS07-1343	35			28	34	34	33
LS07-2935	43			35	45	40	41
LS07-3125	37			30	39	36	33
LS07-3131	40			31	45	37	38
LS08-5837	40			37	43	43	36
LS08-6034	42			40	41	44	41

UNIFORM TEST IV, 2012

SEED QUALITY (score)

Strain	Mean 10 Tests	Belleville IL	Harrisburg IL	Brownstown IL	Urbana IL	Lafayette IN	Butlerville IN
LD00-3309 (IV)	1.9			2.0	1.0	1.0	1.0
IA4005	1.8			2.0	1.0	1.0	1.0
LD00-2817P (L)	2.5			2.0	1.0	1.0	1.5
LD06-7620	2.2			3.0	1.0	1.0	1.0
LG09-7250	2.7			3.0	2.0	1.0	2.0
LG09-8595	1.9			2.0	2.0	1.0	1.0
LS07-1343	2.3			3.0	2.0	1.0	1.0
LS07-2935	2.2			2.0	1.0	1.0	1.0
LS07-3125	1.9			1.0	1.0	1.0	1.0
LS07-3131	1.9			2.0	1.0	1.0	1.0
LS08-5837	1.9			2.0	1.0	1.0	1.0
LS08-6034	2.1			2.0	2.0	1.0	2.0

UNIFORM TEST IV, 2012

PLANT HEIGHT (inches)

Strain	Manhattan KS	Ottawa KS	Columbia MO	Portageville (Clay) MO	Portageville (Loam) MO	Jackson TN
LD00-3309 (IV)	50	21	40	30	35	40
IA4005	46	22	34	33	34	32
LD00-2817P (L)	50	26	38	37	35	40
LD06-7620	45	21	33	31	31	31
LG09-7250	53	28	39	37	33	37
LG09-8595	48	24	39	39	32	40
LS07-1343	47	24	38	38	34	36
LS07-2935	56	28	46	43	42	49
LS07-3125	52	25	40	35	36	40
LS07-3131	55	28	41	38	39	45
LS08-5837	47	28	45	39	36	43
LS08-6034	51	28	45	46	42	46

UNIFORM TEST IV, 2012

SEED QUALITY (score)

Strain	Manhattan KS	Ottawa KS	Columbia MO	Portageville (Clay) MO	Portageville (Loam) MO	Jackson TN
LD00-3309 (IV)	3.0	2.0	1.3	3.0	2.0	2.7
IA4005	1.0	3.0	1.7	3.0	2.0	2.3
LD00-2817P (L)	2.0	4.0	1.8	4.0	5.0	2.7
LD06-7620	1.0	3.0	1.5	4.0	4.0	2.3
LG09-7250	3.0	4.0	1.8	5.0	3.0	2.0
LG09-8595	2.0	2.0	1.7	2.0	3.0	2.3
LS07-1343	2.0	3.0	1.7	3.0	3.0	3.3
LS07-2935	3.0	3.0	1.7	3.0	3.0	3.7
LS07-3125	3.0	3.0	1.5	3.0	2.0	2.7
LS07-3131	3.0	2.0	1.5	3.0	2.0	2.3
LS08-5837	3.0	2.0	1.5	3.0	2.0	2.3
LS08-6034	3.0	2.0	1.5	3.0	2.0	2.3

UNIFORM TEST IV, 2012

SEED SIZE (g/100)

Strain	Mean 10 Tests	Belleville IL	Harrisburg IL	Brownstown IL	Urbana IL	Lafayette IN	Butlerville IN
LD00-3309 (IV)	13.4			15.5	14.8	13.4	12.6
IA4005	15.2			17.2	17.5	14.9	14.5
LD00-2817P (L)	14.6			16.0	17.1	14.8	13.0
LD06-7620	15.2			17.5	17.8	15.1	13.5
LG09-7250	18.7			21.5	20.4	20.6	19.2
LG09-8595	17.2			19.8	19.7	15.8	17.0
LS07-1343	16.4			19.2	18.9	16.3	15.7
LS07-2935	17.2			19.3	20.4	17.3	17.3
LS07-3125	14.6			16.4	16.5	14.6	14.4
LS07-3131	17.2			19.5	19.1	16.1	16.3
LS08-5837	16.1			17.2	18.5	15.1	16.2
LS08-6034	18.7			20.9	19.8	19.0	19.5

UNIFORM TEST IV, 2012

SEED SIZE (g/100)

Strain	Manhattan KS	Ottawa KS	Columbia MO	Portageville (Clay) MO	Portageville (Loam) MO	Jackson TN
LD00-3309 (IV)	14.3	14.0	11.3	12.5	11.7	14.1
IA4005	18.5	15.2	14.0	14.5	12.2	13.4
LD00-2817P (L)	16.7	16.0	13.1	14.0	13.2	12.0
LD06-7620	16.5	14.8	14.1	16.1	13.4	13.3
LG09-7250	21.2	19.2	18.5	18.3	14.5	13.1
LG09-8595	19.8	19.0	16.9	16.2	14.7	12.9
LS07-1343	18.6	17.6	15.3	14.8	13.3	14.5
LS07-2935	18.4	17.7	15.4	16.4	15.4	14.5
LS07-3125	15.8	15.8	13.5	13.3	13.1	12.8
LS07-3131	18.2	18.9	16.4	15.7	15.5	15.8
LS08-5837	18.4	16.1	14.9	15.4	14.5	14.6
LS08-6034	19.2	21.1	17.8	18.7	17.6	13.7

UNIFORM TEST IV, 2012

PROTEIN (%)

Strain	Mean 9 Tests	Urbana IL	Brownstown IL	Lafayette IN	Butlerville IN	Manhattan KS	Columbia MO	Portageville (Clay) MO	Portageville (Loam) MO	Jackson TN
LD00-3309 (IV)	34.3	34.1	35.1	35.9	33.5	35.1	33.0	34.4	34.2	33.8
IA4005	34.7	33.7	35.4	35.8	33.7	35.7	31.9	36.0	34.9	35.5
LD00-2817P (L)	33.4	33.4	32.8	34.9	32.4	34.5	31.3	34.5	33.6	33.0
LD06-7620	34.8	33.6	35.9	35.8	33.1	34.9	32.8	36.5	35.7	34.6
LG09-7250	35.7	34.4	37.0	37.0	34.2	35.3	34.3	37.5	36.3	35.8
LG09-8595	35.2	34.4	35.3	35.4	34.5	36.3	34.0	35.4	35.9	35.5
LS07-1343	33.5	33.3	34.2	34.6	32.7	33.4	31.4	33.9	34.0	33.9
LS07-2935	34.9	34.7	35.8	36.1	34.3	34.0	32.5	35.9	35.5	35.2
LS07-3125	34.4	34.0	35.4	36.9	34.1	34.2	32.2	33.8	34.5	34.1
LS07-3131	34.4	34.0	35.0	36.1	33.3	35.2	32.4	34.4	34.4	35.0
LS08-5837	35.0	35.1	35.7	35.6	34.7	35.2	32.4	35.9	35.4	35.0
LS08-6034	36.2	37.3	36.2	37.2	35.8	36.3	34.1	37.2	35.4	36.7

UNIFORM TEST IV, 2012

OIL (%)

Strain	Mean 9 Tests	Urbana IL	Brownstown IL	Lafayette IN	Butlerville IN	Manhattan KS	Columbia MO	Portageville (Clay) MO	Portageville (Loam) MO	Jackson TN
LD00-3309 (IV)	19.3	19.1	19.0	17.9	20.1	18.3	19.4	19.7	20.1	20.1
IA4005	19.9	20.1	19.8	19.0	20.5	18.9	20.8	19.8	20.4	20.0
LD00-2817P (L)	20.0	19.8	20.2	18.8	20.7	19.4	20.4	20.1	20.1	20.4
LD06-7620	19.5	19.6	18.8	18.4	20.5	18.6	19.7	19.4	19.7	20.5
LG09-7250	19.4	19.7	18.8	18.3	20.0	18.9	19.6	19.4	19.9	20.4
LG09-8595	19.6	19.4	19.3	18.8	20.3	18.5	19.8	20.4	19.7	20.0
LS07-1343	19.8	19.7	19.4	18.8	20.2	19.0	20.1	19.9	20.1	20.5
LS07-2935	19.3	19.0	19.0	18.3	19.8	18.6	19.9	19.4	20.2	19.8
LS07-3125	19.8	19.6	19.2	17.9	19.8	19.0	20.3	20.7	20.6	20.9
LS07-3131	19.8	19.6	19.6	18.7	20.4	18.6	20.3	20.3	20.6	20.4
LS08-5837	19.0	18.6	18.7	18.2	19.4	18.2	19.7	19.1	19.3	19.7
LS08-6034	18.9	17.6	18.4	17.9	19.5	18.4	19.6	19.0	19.8	19.7

Preliminary Test IV, 2012

Ent.	Strain	Parentage	Seed Source	Gen. Comp.	Unique Traits
1	LD00-3309 (IV)	Maverick x Dwight	Diers	F5	SCN
2.	IA4004	Dairyand 99433 x A01-409003	Fehr	F4	
3.	LD00-2817P (L)	Ina x Dwight	Diers	F5	SCN
4.	K10-2146	IA3023 x K07-121	Schapaugh	F4	
5.	K10-2644	IA3024 x K03-3825	Schapaugh	F4	
6.	K10-8022	N04-9649 x LD00-3309	Schapaugh	F4	
7.	K10-8500	LG07-8109 RESELECTION	Schapaugh	F4	
8.	LG09-7167	LG00-3372 x HC99-2763	Nelson	F6	genetic diversity
9.	LG09-8166	PI 603571A x LG00-6182	Nelson	F6	genetic diversity
10.	LG09-8519	K1599 x LG02-3733	Nelson	F6	genetic diversity
11.	LG09-8702	LG02-2412 x LG00-6182	Nelson	F6	genetic diversity
12.	LG10-2695	IA3023 x LG03-3020	Nelson	F6	genetic diversity
13.	LG10-3251	LG03-1672 x LD00-3309	Nelson	F6	genetic diversity
14.	LG10-3369	LG03-2979 x IA3023	Nelson	F6	genetic diversity
15.	LS09-1527	Syngenta 30257-b02-07197 x LS01-3615	Klein	F6	SCN
16.	LS09-1530	Syngenta 30257-b02-07197 x LS01-3615	Klein	F6	SCN
17.	LS09-1803	LD00-1938 x LS02-2213	Klein	F6	SCN
18.	LS09-2340	Syngenta 98620-b1-51163 x LS01-1734	Klein	F6	SCN
19.	LS09-2342	Syngenta 98620-b1-51163 x LS01-1734	Klein	F6	SCN
20.	LS09-2655	Syngenta 98620-b1-51163 x LS02-0425	Klein	F6	SCN
21.	LS09-2659	Syngenta 98620-b1-51163 x LS02-0425	Klein	F6	SCN
22.	LS09-2707	Syngenta 98620-b1-51163 x LS02-0425	Klein	F6	SCN
23.	LS09-2722	Syngenta 98620-b1-51163 x LS02-0425	Klein	F6	SCN
24.	LS09-5806	LS00-4221 x LS02-2213	Klein	F6	SCN
25.	S10-8471	LG04-6000 X LD04-5907	Shannon	F5	

PRELIMINARY TEST IV, 2012

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	Shattering Score Manhattan KS	Shattering Score Ottawa KS
LD00-3309 (IV)	PTBDYBlI	1.0	1.0
IA4004	WLtTDYBlI	1.0	1.0
LD00-2817P (L)	PGBDYIbI	1.0	1.0
K10-2146	WGBDYIbI	1.0	1.0
K10-2644	PGTDYIbI	1.0	1.0
K10-8022	WTTDYBlI	1.0	1.0
K10-8500	PGBDYG+IbI	1.0	1.0
LG09-7167	PGBDYBlI	2.0	2.0
LG09-8166	PGBDYIbI	1.0	1.0
LG09-8519	PTBDYBlI	1.0	1.0
LG09-8702	PTBDYBlI	1.0	1.0
LG10-2695	WGTDYIbI	1.0	1.0
LG10-3251	PTTDYG+BlI	1.0	1.0
LG10-3369	WGBDYIbI	1.0	1.0
LS09-1527	PGT+BDYBfI	1.0	1.0
LS09-1530	P+WG+TBDYHI	1.0	1.0
LS09-1803	WTTDYBlI	1.0	1.0
LS09-2340	P+WTTDYBlI	1.0	1.0
LS09-2342	WTTDYBlI	1.0	1.0
LS09-2655	WGBDYBfI	1.0	1.0
LS09-2659	PGBDYIbI	1.0	1.0
LS09-2707	PTTDYYI	1.0	1.0
LS09-2722	PGTDYGI	1.0	1.0
LS09-5806	WTTDYBlI	1.0	1.0
S10-8471	PGTDYLbfI	1.0	1.0

PRELIMINARY TEST IV, 2012

REGIONAL SUMMARY

					Plant	Seed	Seed	Composition	
	Yield	Rank	Maturity	Lodging	Height	Quality	Size	Protein	Oil
No. of Tests	7	7	6	7	7	7	7	5	5
Strain	bu/a	No.	Date	Score	In..	Score	g/100	%	%
LD00-3309 (IV)	47.3	21	9/26	1.8	36	1.9	13.1	34.6	19.0
IA4004	51.6	7	-0.6	1.8	33	2.1	15.5	34.4	19.7
LD00-2817P (L)	50.4	12	7.1	2.0	39	2.3	14.8	33.4	19.9
K10-2146	50.8	10	2.7	1.9	39	1.8	17.1	34.1	19.3
K10-2644	44.9	25	2.4	1.9	38	2.1	17.5	35.1	19.3
K10-8022	48.7	16	5.8	2.1	37	1.9	13.7	35.2	18.7
K10-8500	46.4	23	6.4	2.0	42	1.8	14.2	34.5	19.3
LG09-7167	52.3	5	0.1	1.9	41	2.3	16.2	36.0	19.0
LG09-8166	50.7	11	2.2	2.2	40	2.3	17.4	36.0	18.6
LG09-8519	52.3	5	3.2	1.9	38	1.9	15.0	34.8	18.9
LG09-8702	48.5	17	7.6	2.1	41	2.3	19.1	34.6	18.9
LG10-2695	55.4	1	1.0	1.9	38	1.7	13.6	33.1	20.2
LG10-3251	48.2	18	7.3	2.2	46	2.0	15.7	34.2	19.4
LG10-3369	47.5	20	1.1	2.7	42	2.3	17.7	35.8	19.5
LS09-1527	50.4	12	8.3	2.3	38	2.0	18.2	34.7	19.2
LS09-1530	52.9	4	7.0	1.9	37	1.8	16.9	35.3	18.8
LS09-1803	49.6	14	8.7	2.4	39	2.0	15.9	35.3	18.5
LS09-2340	45.5	24	9.6	2.2	38	2.3	19.7	35.4	19.5
LS09-2342	49.2	15	8.6	2.4	40	2.6	18.5	35.4	19.9
LS09-2655	51.0	9	6.0	1.9	37	2.5	18.2	35.7	19.3
LS09-2659	51.6	7	7.6	2.1	38	2.3	18.6	35.6	19.4
LS09-2707	47.9	19	6.4	2.2	40	2.0	18.9	34.9	19.4
LS09-2722	55.2	2	8.4	1.7	35	2.3	17.5	36.4	19.1
LS09-5806	47.1	22	9.1	2.2	42	2.1	16.9	37.0	18.1
S10-8471	55.1	3	8.6	2.0	39	2.1	16.1	34.3	19.3

131.8 Days After Planting

PRELIMINARY TEST IV, 2012

YIELD (bu/a)

Strain	Mean 7 Tests	Belleville IL	Harrisburg IL	Urbana IL	Lafayette IN	Butlerville IN	Manhattan KS	Ottawa KS	Columbia MO	Portageville (Clay) MO
LD00-3309 (IV)	47.3			58.5	46.4	37.3	59.7	19.8	57.3	52.2
IA4004	51.6			56.5	47.6	44.0	60.8	22.7	68.2	61.7
LD00-2817P (L)	50.4			54.1	51.6	43.4	53.3	23.3	57.8	69.5
K10-2146	50.8			58.1	53.3	48.2	63.2	21.6	54.3	57.0
K10-2644	44.9			56.6	39.0	42.4	48.7	24.1	51.1	52.5
K10-8022	48.7			57.6	48.4	50.2	47.5	28.5	51.3	57.5
K10-8500	46.4			51.8	49.6	43.8	43.7	27.2	53.2	55.5
LG09-7167	52.3			59.7	47.8	44.0	74.2	24.6	54.3	61.7
LG09-8166	50.7			57.0	49.1	52.0	61.4	22.1	58.7	54.4
LG09-8519	52.3			59.7	52.2	48.4	63.7	25.9	59.5	56.9
LG09-8702	48.5			53.2	53.3	46.3	54.5	24.0	55.8	52.6
LG10-2695	55.4			63.4	56.3	52.6	71.3	25.1	62.7	56.1
LG10-3251	48.2			54.1	43.5	51.0	50.2	27.2	53.3	57.8
LG10-3369	47.5			57.0	45.8	46.4	60.3	17.4	46.8	58.6
LS09-1527	50.4			53.0	45.3	54.8	54.5	23.1	62.1	60.0
LS09-1530	52.9			59.1	53.4	50.6	60.8	23.3	60.9	62.2
LS09-1803	49.6			56.3	48.3	47.2	53.9	24.6	54.2	62.5
LS09-2340	45.5			51.6	45.3	41.6	46.9	26.2	51.2	55.6
LS09-2342	49.2			56.1	48.8	49.6	56.2	25.5	55.0	53.1
LS09-2655	51.0			58.8	49.8	47.3	63.2	24.9	54.6	58.2
LS09-2659	51.6			54.9	50.7	53.9	56.2	27.3	60.2	58.3
LS09-2707	47.9			52.8	51.4	50.9	49.2	24.7	53.1	53.0
LS09-2722	55.2			64.5	62.9	50.0	51.0	25.2	66.9	66.2
LS09-5806	47.1			52.6	48.5	44.2	48.7	22.2	53.8	59.7
S10-8471	55.1			61.4	53.9	51.7	63.7	19.5	66.1	69.2
Location Mean				56.7	49.7	47.7	56.7	24.0	56.9	58.5
C.V. (%)				6.6	12.6	7.5	12.3	9.3	8.9	9.0
L.S.D. (5%)				6.4	13.0	7.4	14.5	4.5	8.3	13.1
Row Sp. (IN.)		30	30	30	30	30	30	30	30	30
Rows/Plot		4	4	4	4	4	4	4	4	4
Reps		2	2	2	2	2	2	2	3	2

*Data not included in mean.

PRELIMINARY TEST IV, 2012

YIELD RANK

Strain	Yield Rank	Belleville IL	Harrisburg IL	Urbana IL	Lafayette IN	Butlerville IN	Manhattan KS	Ottawa KS	Columbia MO	Portageville (Clay) MO
LD00-3309 (IV)	21			8	20	25	11	23	11	25
IA4004	7			14	19	19	8	19	1	6
LD00-2817P (L)	12			18	8	22	17	16	10	1
K10-2146	10			9	5	13	5	22	15	15
K10-2644	25			13	25	23	21	14	24	24
K10-8022	16			10	16	9	23	1	22	14
K10-8500	23			24	12	21	25	3	20	19
LG09-7167	5			4	18	19	1	12	16	6
LG09-8166	11			11	13	4	7	21	9	20
LG09-8519	5			4	7	12	3	6	8	16
LG09-8702	17			20	6	17	14	15	12	23
LG10-2695	1			2	2	3	2	9	4	17
LG10-3251	18			18	24	6	19	3	19	13
LG10-3369	20			11	21	16	10	25	25	10
LS09-1527	12			21	22	1	14	18	5	8
LS09-1530	4			6	4	8	8	16	6	5
LS09-1803	14			15	17	15	16	12	17	4
LS09-2340	24			25	22	24	24	5	23	18
LS09-2342	15			16	14	11	12	7	13	21
LS09-2655	9			7	11	14	5	10	14	12
LS09-2659	7			17	10	2	12	2	7	11
LS09-2707	19			22	9	7	20	11	21	22
LS09-2722	2			1	1	10	18	8	2	3
LS09-5806	22			23	15	18	21	20	18	9
S10-8471	3			3	3	5	3	24	3	2

PRELIMINARY TEST IV, 2012

MATURITY (date)

Strain	Mean 6 Tests	Belleville IL	Harrisburg IL	Urbana IL	Lafayette IN	Butlerville IN	Manhattan KS	Ottawa KS	Columbia MO	Portageville (Clay) MO
LD00-3309 (IV)	9/26			9/28	10/12	9/22	10/9		9/14	9/15
IA4004	-0.6			-1	-7	2	0		3	-1
LD00-2817P (L)	7.1			6	3	11	5		10	7
K10-2146	2.7			4	-3	5	8		2	0
K10-2644	2.4			3	-2	5	1		6	1
K10-8022	5.8			7	-1	8	6		8	7
K10-8500	6.4			8	4	8	5		12	2
LG09-7167	0.1			2	-5	1	2		2	-1
LG09-8166	2.2			3	-5	1	4		3	7
LG09-8519	3.2			4	-1	3	6		4	3
LG09-8702	7.6			11	1	13	4		10	7
LG10-2695	1.0			1	-6	2	7		2	0
LG10-3251	7.3			10	-2	11	9		9	7
LG10-3369	1.1			6	-5	0	4		2	0
LS09-1527	8.3			10	-2	12	10		11	9
LS09-1530	7.0			7	2	10	10		7	7
LS09-1803	8.7			12	4	13	8		8	7
LS09-2340	9.6			13	5	11	10		10	8
LS09-2342	8.6			13	4	11	8		11	5
LS09-2655	6.0			9	2	10	4		5	6
LS09-2659	7.6			9	2	13	10		6	5
LS09-2707	6.4			6	4	9	10		7	2
LS09-2722	8.4			8	3	14	10		8	8
LS09-5806	9.1			10	3	13	10		12	7
S10-8471	8.6			12	5	14	2		12	7
Date Planted	5/17			5/15	5/15	5/22	6/4	5/29	5/16	4/23
Days to Mature	132			136	150	123	127		121	145

PRELIMINARY TEST IV, 2012

LODGING (score)

Strain	Mean 7 Tests	Belleville IL	Harrisburg IL	Urbana IL	Lafayette IN	Butlerville IN	Manhattan KS	Ottawa KS	Columbia MO	Portageville (Clay) MO
LD00-3309 (IV)	1.8			1.0	1.0	1.0	5.0	1.0	1.5	2.0
IA4004	1.8			1.0	1.0	1.0	5.0	1.0	1.5	2.0
LD00-2817P (L)	2.0			1.5	1.0	1.0	5.0	1.0	1.8	3.0
K10-2146	1.9			1.8	1.0	1.0	5.0	1.0	1.8	2.0
K10-2644	1.9			1.8	1.0	1.0	5.0	1.0	1.7	2.0
K10-8022	2.1			2.5	1.0	1.0	5.0	1.0	2.3	2.0
K10-8500	2.0			1.5	1.0	1.0	5.0	1.0	2.5	2.0
LG09-7167	1.9			1.8	1.0	1.0	5.0	1.0	1.8	2.0
LG09-8166	2.2			2.3	1.0	1.0	5.0	1.0	2.0	3.0
LG09-8519	1.9			1.8	1.0	1.0	5.0	1.0	1.7	2.0
LG09-8702	2.1			2.0	1.0	1.0	5.0	1.0	3.0	2.0
LG10-2695	1.9			1.8	1.0	1.0	5.0	1.0	1.7	2.0
LG10-3251	2.2			2.0	1.0	1.5	5.0	1.0	1.7	3.0
LG10-3369	2.7			3.0	1.5	1.5	5.0	1.5	2.5	4.0
LS09-1527	2.3			2.3	1.0	1.0	5.0	1.0	2.5	3.0
LS09-1530	1.9			1.5	1.0	1.0	5.0	1.0	1.5	2.0
LS09-1803	2.4			2.3	1.0	1.0	5.0	1.0	2.5	4.0
LS09-2340	2.2			2.0	1.0	1.0	5.0	1.0	2.2	3.0
LS09-2342	2.4			2.0	1.0	1.3	5.0	1.0	3.3	3.0
LS09-2655	1.9			2.0	1.0	1.0	3.5	1.0	1.5	3.0
LS09-2659	2.1			1.8	1.0	1.0	5.0	1.0	1.7	3.0
LS09-2707	2.2			1.8	1.0	1.0	5.0	1.0	2.3	3.0
LS09-2722	1.7			1.5	1.0	1.0	4.0	1.0	1.7	2.0
LS09-5806	2.2			1.8	1.0	1.0	5.0	1.0	1.8	4.0
S10-8471	2.0			1.5	1.0	1.0	5.0	1.0	1.8	3.0

PRELIMINARY TEST IV, 2012

PLANT HEIGHT (Inches)

Strain	Mean 7 Tests	Belleville IL	Harrisburg IL	Urbana IL	Lafayette IN	Butlerville IN	Manhattan KS	Ottawa KS	Columbia MO	Portageville (Clay) MO
LD00-3309 (IV)	36			38	34	30	52	24	38	36
IA4004	33			34	31	32	48	26	35	28
LD00-2817P (L)	39			40	38	33	51	28	44	37
K10-2146	39			40	42	35	54	25	44	30
K10-2644	38			42	38	29	46	32	42	35
K10-8022	37			34	38	34	50	26	42	36
K10-8500	42			47	46	33	56	27	45	43
LG09-7167	41			42	45	34	55	31	43	37
LG09-8166	40			42	38	34	56	28	42	40
LG09-8519	38			41	38	32	49	24	45	36
LG09-8702	41			42	45	39	52	24	44	39
LG10-2695	38			39	38	34	52	25	46	36
LG10-3251	46			42	50	46	56	30	53	42
LG10-3369	42			45	45	40	53	30	43	38
LS09-1527	38			38	38	33	48	27	42	41
LS09-1530	37			37	35	30	49	25	39	43
LS09-1803	39			38	44	33	48	26	43	44
LS09-2340	38			36	39	32	49	26	43	43
LS09-2342	40			38	41	35	51	28	41	44
LS09-2655	37			36	36	31	48	25	38	45
LS09-2659	38			39	39	34	47	24	40	46
LS09-2707	40			37	45	34	51	25	41	47
LS09-2722	35			40	36	30	45	21	35	40
LS09-5806	42			44	43	37	54	27	45	46
S10-8471	39			37	37	34	52	25	43	47

PRELIMINARY TEST IV, 2012

SEED QUALITY (score)

Strain	Mean 7 Tests	Belleville IL	Harrisburg IL	Urbana IL	Lafayette IN	Butlerville IN	Manhattan KS	Ottawa KS	Columbia MO	Portageville (Clay) MO
LD00-3309 (IV)	1.9			1.0	1.0	1.0	3.0	2.0	1.5	4.0
IA4004	2.1			1.0	1.0	1.0	3.0	3.0	1.7	4.0
LD00-2817P (L)	2.3			1.0	1.0	1.5	3.0	4.0	1.8	4.0
K10-2146	1.8			1.0	1.0	1.0	3.0	2.0	1.5	3.0
K10-2644	2.1			2.0	1.0	1.0	3.0	3.0	1.7	3.0
K10-8022	1.9			1.0	1.0	1.0	3.0	3.0	1.5	3.0
K10-8500	1.8			1.0	1.0	1.0	3.0	2.0	1.5	3.0
LG09-7167	2.3			2.0	1.0	1.0	3.0	3.0	2.0	4.0
LG09-8166	2.3			2.0	1.0	1.0	3.0	3.0	2.2	4.0
LG09-8519	1.9			1.0	1.0	1.0	3.0	2.0	1.5	4.0
LG09-8702	2.3			2.0	1.0	1.5	3.0	3.0	1.5	4.0
LG10-2695	1.7			1.0	1.0	1.0	2.0	2.0	1.7	3.0
LG10-3251	2.0			1.0	1.0	1.5	3.0	3.0	1.8	3.0
LG10-3369	2.3			1.0	1.5	1.0	3.0	4.0	1.5	4.0
LS09-1527	2.0			1.0	1.0	1.0	3.0	2.0	2.2	4.0
LS09-1530	1.8			1.0	1.0	1.0	2.0	2.0	1.7	4.0
LS09-1803	2.0			1.0	1.0	1.0	3.0	3.0	1.7	3.0
LS09-2340	2.3			1.0	1.5	1.5	3.0	3.0	1.8	4.0
LS09-2342	2.6			3.0	1.5	2.0	3.0	3.0	1.7	4.0
LS09-2655	2.5			2.0	1.0	2.0	3.0	4.0	1.7	4.0
LS09-2659	2.3			2.0	1.5	2.0	2.0	4.0	1.5	3.0
LS09-2707	2.0			1.0	1.5	1.0	3.0	3.0	1.7	3.0
LS09-2722	2.3			2.0	1.0	1.5	3.0	3.0	1.8	4.0
LS09-5806	2.1			3.0	1.0	1.0	3.0	2.0	1.7	3.0
S10-8471	2.1			1.0	1.0	1.0	3.0	4.0	1.7	3.0

PRELIMINARY TEST IV, 2012

SEED SIZE (g/100)

Strain	Mean 7 Tests	Belleville IL	Harrisburg IL	Urbana IL	Lafayette IN	Butlerville IN	Manhattan KS	Ottawa KS	Columbia MO	Portageville (Clay) MO
LD00-3309 (IV)	13.1			14.5	13.9	12.6	13.9	13.3	11.2	12.2
IA4004	15.5			16.6	15.0	14.8	18.2	15.6	14.1	14.2
LD00-2817P (L)	14.8			16.3	13.7	14.1	15.8	16.7	12.3	14.5
K10-2146	17.1			19.1	15.6	15.3	19.5	18.6	14.4	16.9
K10-2644	17.5			18.8	17.1	16.4	19.0	18.6	14.4	17.9
K10-8022	13.7			13.8	13.7	12.4	16.9	15.4	10.9	12.8
K10-8500	14.2			15.0	13.8	14.2	14.4	15.2	13.4	13.3
LG09-7167	16.2			18.1	15.3	14.4	17.0	18.4	13.6	16.9
LG09-8166	17.4			18.2	18.1	16.4	19.5	18.2	14.6	17.1
LG09-8519	15.0			16.3	13.8	14.3	16.7	16.6	12.4	14.9
LG09-8702	19.1			19.9	19.1	18.4	20.5	22.4	15.7	17.6
LG10-2695	13.6			13.5	13.9	12.9	16.5	14.0	11.2	12.9
LG10-3251	15.7			16.9	14.4	16.6	17.8	15.6	13.2	15.8
LG10-3369	17.7			19.8	17.3	14.9	22.6	17.4	14.6	17.2
LS09-1527	18.2			18.9	16.6	18.0	19.5	18.2	15.9	20.0
LS09-1530	16.9			17.6	15.8	15.9	19.4	18.2	14.6	17.2
LS09-1803	15.9			16.2	15.7	15.5	16.9	18.5	13.3	15.5
LS09-2340	19.7			23.0	18.5	19.4	20.8	21.8	16.7	17.8
LS09-2342	18.5			20.6	16.2	18.9	20.0	20.6	16.5	17.0
LS09-2655	18.2			20.6	16.4	17.3	20.2	19.0	16.4	17.5
LS09-2659	18.6			20.1	16.6	18.4	20.7	20.2	16.1	18.4
LS09-2707	18.9			19.7	18.5	19.2	21.5	19.9	15.7	17.9
LS09-2722	17.5			18.5	16.3	16.7	21.4	16.7	15.0	17.8
LS09-5806	16.9			17.8	16.0	17.0	17.9	17.7	15.7	16.4
S10-8471	16.1			19.4	16.0	15.6	17.3	14.7	13.8	16.0

PRELIMINARY TEST IV, 2012

PROTEIN (%)

Strain	Mean 5 Tests	Urbana IL	Lafayette IN	Butlerville IN	Manhattan KS	Portageville (Clay) MO
LD00-3309 (IV)	34.6	33.7	36.5	32.8	35.6	34.8
IA4004	34.4	33.4	35.2	33.4	35.2	34.9
LD00-2817P (L)	33.4	32.1	34.8	32.5	33.9	33.7
K10-2146	34.1	33.1	34.8	32.6	35.0	35.0
K10-2644	35.1	34.0	37.4	32.5	35.2	36.4
K10-8022	35.2	34.4	36.8	33.0	35.7	36.1
K10-8500	34.5	34.6	35.8	33.0	34.3	34.8
LG09-7167	36.0	35.4	37.7	33.6	34.9	38.1
LG09-8166	36.0	35.2	37.6	34.0	35.6	37.4
LG09-8519	34.8	33.6	36.3	32.7	34.7	36.7
LG09-8702	34.6	34.0	35.9	32.9	35.0	35.2
LG10-2695	33.1	30.3	35.2	31.1	34.4	34.4
LG10-3251	34.2	33.1	35.2	33.3	34.5	34.9
LG10-3369	35.8	34.2	37.5	33.5	36.3	37.6
LS09-1527	34.7	33.8	35.6	32.9	35.3	36.0
LS09-1530	35.3	33.8	36.5	33.6	36.2	36.5
LS09-1803	35.3	34.8	36.3	33.7	36.6	35.2
LS09-2340	35.4	34.9	36.8	34.4	35.7	35.2
LS09-2342	35.4	34.8	37.0	34.7	35.5	35.1
LS09-2655	35.7	34.5	37.1	34.6	35.9	36.3
LS09-2659	35.6	34.6	37.2	34.2	35.9	36.0
LS09-2707	34.9	33.5	36.8	33.7	35.3	35.4
LS09-2722	36.4	34.6	37.5	35.7	36.9	37.0
LS09-5806	37.0	36.8	38.2	36.7	36.0	37.1
S10-8471	34.3	34.4	35.6	32.5	35.3	33.8

PRELIMINARY TEST IV, 2012

OIL (%)

StraIL	Mean 5 Tests	Urbana IL	Lafayette IN	Butlerville IN	Manhattan KS	Portageville (Clay) MO
LD00-3309 (IV)	19.0	19.3	17.5	20.1	18.4	19.5
IA4004	19.7	20.2	19.1	20.7	18.3	20.4
LD00-2817P (L)	19.9	20.1	18.9	20.6	19.5	20.4
K10-2146	19.3	19.4	18.4	20.5	18.9	19.4
K10-2644	19.3	19.3	17.9	21.0	18.9	19.6
K10-8022	18.7	18.4	17.5	20.1	18.2	19.1
K10-8500	19.3	18.8	18.1	20.5	18.7	20.4
LG09-7167	19.0	19.2	17.7	20.2	19.1	18.8
LG09-8166	18.6	19.0	17.6	19.6	18.2	18.5
LG09-8519	18.9	19.1	18.0	20.3	18.7	18.7
LG09-8702	18.9	18.5	18.6	19.5	18.4	19.4
LG10-2695	20.2	20.8	18.8	21.5	19.0	20.5
LG10-3251	19.4	19.6	18.2	20.3	18.9	20.2
LG10-3369	19.5	19.9	18.3	20.9	18.8	19.9
LS09-1527	19.2	19.2	18.5	20.1	18.6	19.7
LS09-1530	18.8	19.0	18.0	19.9	18.1	19.2
LS09-1803	18.5	18.5	17.4	19.4	17.9	19.1
LS09-2340	19.5	19.6	18.4	20.6	19.1	19.9
LS09-2342	19.9	19.9	18.9	20.4	19.5	20.6
LS09-2655	19.3	19.6	18.4	20.1	19.2	19.5
LS09-2659	19.4	19.6	18.1	20.4	19.2	19.8
LS09-2707	19.4	19.7	17.7	20.4	18.9	20.1
LS09-2722	19.1	19.3	17.9	19.8	18.6	19.7
LS09-5806	18.1	18.2	17.1	19.0	18.0	18.4
S10-8471	19.3	18.7	18.3	20.3	18.6	20.4

Uniform Test 0 Roundup-Ready, 2012

Ent.	Strain	Parentage	Seed Source	Previous Testing	Gen. Comp.	Unique Traits
1	AG0532	na	Monsanto			
2.	AG0231 (E)	na	Monsanto			
3.	AG0808	na	Monsanto	1		
4.	AG1230	na	Monsanto			RR
5.	M06R-613036	M99-304146 x N33129R	Orf	new	F5	RR
6.	M06R-614008	SDX00R-026-42 x N34505R	Orf	new	F5	RR
7.	M06R-614016	SDX00R-026-42 x N34505R	Orf	new	F5	RR
8.	M06R-619017	M99-386097 x N33129R	Orf	new	F5	RR
9.	M06R-621-1007	SDX00R-017-52 x MN0206RR	Orf	new	F5	RR
10.	M06R-621-1014	SDX00R-017-52 x MN0206RR	Orf	new	F5	RR
11.	M06R-621-7020	SDX00R-017-52 x MN0206RR	Orf	new	F5	RR

UNIFORM TEST 0 Roundup-Ready, 2012

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	Chlorosis Score Danvers MN
AG0532	PTBDYBlI	2.3
AG0231 (E)	PTBDYBlI	3.9
AG0808	WTBDYBlI	1.9
AG1230	PGBDYIbI	1.9
M06R-613036	PTBDYBrI	2.8
M06R-614008	WTBDYYI	2.9
M06R-614016	P+WTBDYY+LbrI	1.4
M06R-619017	PGTDYBfI	1.9
M06R-621-1007	P+WGBIYIbI	3.4
M06R-621-1014	PGBSYIbI	2.4
M06R-621-7020	PGBIYIbI	2.9

UNIFORM TEST 0 Roundup-Ready, 2012

REGIONAL SUMMARY

					Plant	Seed	Seed	Composition	
	Yield	Rank	Maturity	Lodging	Height	Quality	Size	Protein	Oil
No. of Tests	4	4	4	4	2	4	4	4	4
Strain	bu/a	No.	Date	Score	In.	Score	g/100	%	%
AG0532	45.0	3	9/12	1.1	33	1.0	14.1	33.7	17.0
AG0231 (E)	42.3	6	-4.0	1.2	34	1.5	15.8	32.7	17.0
AG0808	43.4	4	0.3	1.5	37	1.0	14.2	30.3	17.9
AG1230	45.3	2	2.3	1.1	34	1.0	14.7	32.9	17.6
M06R-613036	41.3	8	4.3	1.6	40	1.0	15.6	34.0	17.5
M06R-614008	42.2	7	-1.3	1.3	34	1.5	14.6	32.9	17.1
M06R-614016	45.4	1	2.5	1.2	32	1.8	14.0	34.3	16.1
M06R-619017	42.5	5	0.5	1.7	37	1.8	15.2	33.3	18.0
M06R-621-1007	40.8	9	-0.8	1.3	38	1.0	14.9	33.8	18.2
M06R-621-1014	40.0	10	0.0	1.9	38	1.3	16.0	34.1	18.0
M06R-621-7020	36.7	11	3.0	1.9	38	1.0	14.3	35.7	17.1

113.0 Days After Planting

UNIFORM TEST 0 Roundup-Ready, 2012

YIELD (bu/a)

Strain	Mean 4 Tests	Morris MN	Rosemount MN	Casselton ND	Grand Bend ND
AG0532	45.0	33.6	31.9	52.6	61.9
AG0231 (E)	42.3	35.3	31.5	50.4	52.0
AG0808	43.4	32.9	33.3	57.0	50.5
AG1230	45.3	36.8	37.2	51.0	56.2
M06R-613036	41.3	27.1	27.6	52.6	58.0
M06R-614008	42.2	29.4	33.2	42.8	63.4
M06R-614016	45.4	34.9	36.2	57.7	52.6
M06R-619017	42.5	26.3	30.5	56.0	57.0
M06R-621-1007	40.8	33.0	33.9	45.2	51.2
M06R-621-1014	40.0	29.5	31.4	50.9	48.3
M06R-621-7020	36.7	29.3	28.0	40.6	48.8
Location Mean		31.6	32.2	50.6	54.5
C.V. (%)		11.2	11.0	15.3	15.1
L.S.D. (5%)		5.9	5.8	12.7	13.4
Row Sp. (In.)		30	30	30	30
Rows/Plot		4	4	4	4
Reps		3	3	3	3

*Data not included in mean.

UNIFORM TEST 0 Roundup-Ready, 2012

YIELD RANK

Strain	Yield Rank	Morris MN	Rosemount MN	Casselton ND	Grand Bend ND
AG0532	3	4	6	4	2
AG0231 (E)	6	2	7	8	7
AG0808	4	6	4	2	9
AG1230	2	1	1	6	5
M06R-613036	8	10	11	4	3
M06R-614008	7	8	5	10	1
M06R-614016	1	3	2	1	6
M06R-619017	5	11	9	3	4
M06R-621-1007	9	5	3	9	8
M06R-621-1014	10	7	8	7	11
M06R-621-7020	11	9	10	11	10

UNIFORM TEST 0 Roundup-Ready, 2012

MATURITY (date)

Strain	Mean 4 Tests	Morris MN	Rosemount MN	Casselton ND	Grand Bend ND
AG0532	9/12	9/13	9/18	9/15	9/4
AG0231 (E)	-4.0	-2	-6	-4	-4
AG0808	0.3	2	-1	-2	2
AG1230	2.3	5	2	-1	3
M06R-613036	4.3	5	-2	6	8
M06R-614008	-1.3	1	-6	-1	1
M06R-614016	2.5	5	0	0	5
M06R-619017	0.5	-1	-8	4	7
M06R-621-1007	-0.8	1	-7	2	1
M06R-621-1014	0.0	-2	-5	4	3
M06R-621-7020	3.0	4	-3	2	9
Date Planted	5/22	6/5	6/4	5/9	5/10
Days to Mature	113	100	106	129	117

UNIFORM TEST 0 Roundup-Ready, 2012

LODGING (score)

Strain	Mean 4 Tests	Morris MN	Rosemount MN	Casselton ND	Grand Bend ND
AG0532	1.1	1.0	1.3	1.0	1.0
AG0231 (E)	1.2	1.0	1.7	1.0	1.0
AG0808	1.5	1.0	3.0	1.0	1.0
AG1230	1.1	1.0	1.3	1.0	1.0
M06R-613036	1.6	1.0	2.0	1.0	2.3
M06R-614008	1.3	1.0	1.7	1.0	1.3
M06R-614016	1.2	1.0	1.7	1.0	1.0
M06R-619017	1.7	1.0	2.7	1.0	2.0
M06R-621-1007	1.3	1.0	2.0	1.0	1.0
M06R-621-1014	1.9	1.0	3.0	1.0	2.7
M06R-621-7020	1.9	1.0	2.7	1.0	2.7

UNIFORM TEST 0 Roundup-Ready, 2012

PLANT HEIGHT (inches)

Strain	Mean 2 Tests	Morris MN	Rosemount MN	Casselton ND	Grand Bend ND
AG0532	33		33	32	
AG0231 (E)	34		37	31	
AG0808	37		36	37	
AG1230	34		33	35	
M06R-613036	40		40	39	
M06R-614008	34		34	33	
M06R-614016	32		37	27	
M06R-619017	37		39	34	
M06R-621-1007	38		36	39	
M06R-621-1014	38		39	36	
M06R-621-7020	38		39	37	

UNIFORM TEST 0 Roundup-Ready, 2012

SEED QUALITY (score)

Strain	Mean 4 Tests	Morris MN	Rosemount MN	Casselton ND	Grand Bend ND
AG0532	1.0	1.0	1.0	1.0	1.0
AG0231 (E)	1.5	2.0	1.0	1.0	2.0
AG0808	1.0	1.0	1.0	1.0	1.0
AG1230	1.0	1.0	1.0	1.0	1.0
M06R-613036	1.0	1.0	1.0	1.0	1.0
M06R-614008	1.5	1.0	1.0	1.0	3.0
M06R-614016	1.8	1.0	2.0	2.0	2.0
M06R-619017	1.8	2.0	2.0	1.0	2.0
M06R-621-1007	1.0	1.0	1.0	1.0	1.0
M06R-621-1014	1.3	1.0	2.0	1.0	1.0
M06R-621-7020	1.0	1.0	1.0	1.0	1.0

UNIFORM TEST 0 Roundup-Ready, 2012

SEED SIZE (g/100)

Strain	Mean 4 Tests	Morris MN	Rosemount MN	Casselton ND	Grand Bend ND
AG0532	14.1	12.8	14.9	13.4	15.1
AG0231 (E)	15.8	13.6	15.4	15.4	18.8
AG0808	14.2	13.3	13.9	15.4	14.1
AG1230	14.7	14.1	15.9	13.3	15.4
M06R-613036	15.6	13.5	16.1	16.2	16.7
M06R-614008	14.6	13.0	13.8	15.1	16.3
M06R-614016	14.0	14.5	13.4	14.4	13.5
M06R-619017	15.2	13.4	14.2	15.0	18.1
M06R-621-1007	14.9	13.0	14.8	15.0	16.9
M06R-621-1014	16.0	13.7	17.0	16.2	17.2
M06R-621-7020	14.3	13.4	15.0	13.8	14.9

UNIFORM TEST 0 Roundup-Ready, 2012

PROTEIN (%)

Strain	Mean 4 Tests	Morris MN	Rosemount MN	Casselton ND	Grand Bend ND
AG0532	33.7	34.7	37.1	31.5	31.3
AG0231 (E)	32.7	34.4	36.1	31.9	28.3
AG0808	30.3	31.6	33.0	29.8	26.6
AG1230	32.9	34.1	37.0	30.9	29.6
M06R-613036	34.0	34.9	37.5	32.5	31.1
M06R-614008	32.9	34.7	35.3	32.4	29.2
M06R-614016	34.3	35.1	37.6	32.3	32.0
M06R-619017	33.3	35.5	36.7	31.6	29.3
M06R-621-1007	33.8	35.2	36.9	33.1	29.8
M06R-621-1014	34.1	36.6	37.6	31.8	30.4
M06R-621-7020	35.7	37.7	38.5	33.6	32.8

UNIFORM TEST 0 Roundup-Ready, 2012

OIL (%)

Strain	Mean 4 Tests	Morris MN	Rosemount MN	Casselton ND	Grand Bend ND
AG0532	17.0	18.0	16.6	16.3	17.2
AG0231 (E)	17.0	17.5	17.0	15.8	17.6
AG0808	17.9	18.4	18.4	16.4	18.5
AG1230	17.6	18.6	17.1	16.8	18.0
M06R-613036	17.5	18.2	17.1	17.2	17.5
M06R-614008	17.1	17.9	17.6	15.2	17.6
M06R-614016	16.1	17.4	16.1	16.4	14.5
M06R-619017	18.0	18.1	17.7	17.9	18.3
M06R-621-1007	18.2	19.0	18.2	16.9	18.7
M06R-621-1014	18.0	18.3	17.9	18.3	17.3
M06R-621-7020	17.1	17.9	17.7	16.1	16.8

Uniform Test I Roundup-Ready, 2012

Ent.	Strain	Parentage	Seed Source	Previous Testing	Gen. Comp.	Unique Traits
1	SD1161RR/(SCN)	IA1008 x SD1081RR	Jiang	4		
2.	AG1230 (E)	na	Monsanto			
3.	U07-135601R	na	Graef	3	F4	RR, dt
4.	AG2031	na	Monsanto			
5.	M00-530039	MN1803RR x M96-136086	Orf	5	F5	Rps1
6.	M06R-150044	MN1803RR x MN0401RR	Orf	1	F4	Rps1a, 1% Linolenic Acid
7.	M06R-152009	SD1091RR x M02-466298	Orf	1	F4	Rps1a, 1% Linolenic Acid

UNIFORM TEST I Roundup-Ready, 2012

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	Chlorosis Score Danvers MN	Green Stem Score Wanatah IN
SD1161RR/(SCN)	WGBDYYI	2.4	1.0
AG1230 (E)	PGBDYIbI	1.9	1.0
U07-135601R	PGTDYIbI	3.1	1.0
AG2031	PGBDYIbI	3.4	1.0
M00-530039	PLtTDYBrI	2.5	1.0
M06R-150044	PGBSYIb+BfI	2.5	1.0
M06R-152009	PGBDYIbI	2.3	1.0

UNIFORM TEST I Roundup-Ready, 2012

REGIONAL SUMMARY

Strain	Yield	Rank	Maturity	Lodging	Plant Height	Seed Quality	Seed Size	Composition	
								Protein	Oil
No. of Tests	7	7	9	6	5	5	8	4	4
	bu/a	No.	Date	Score	In.	Score	g/100	%	%
SD1161RR/(SCN)	49.9	2	9/10	1.1	30	2.5	14.7	34.2	18.3
AG1230 (E)	47.0	4	-5.9	1.0	28	1.7	15.3	33.4	19.2
U07-135601R	49.7	3	3.0	1.0	28	1.4	14.0	33.7	19.2
AG2031	53.5	1	1.4	1.0	32	1.9	16.1	33.9	19.5
M00-530039	46.3	5	-3.9	1.0	28	1.9	15.5	34.3	19.3
M06R-150044	38.9	6	-6.3	1.0	29	2.2	15.4	34.7	19.2
M06R-152009	38.1	7	-6.6	1.0	27	2.1	13.6	34.9	19.6

119.0 Days After Planting

UNIFORM TEST I Roundup-Ready, 2012

2011-2012 2-YEAR MEAN

Strain	Yield	Rank	Maturity	Lodging	Plant Height	Seed Quality	Seed Size	Composition	
								Protein	Oil
No. of Tests	15	15	17	13	12	12	17	6	6
	bu/a	No.	Date	Score	In.	Score	g/100	%	%
SD1161RR/(SCN)	54.5	2	9/14	1.2	31	2.4	15.1	33.3	18.3
U07-135601R	56.6	1	4.1	1.2	29	1.5	14.6	33.3	18.8
M00-530039	52.6	3	-4.3	1.3	29	1.8	16.3	33.6	19.1
M06R-150044	44.9	4	-6.3	1.3	31	2.0	16.3	34.3	18.7
M06R-152009	44.2	5	-6.7	1.3	29	1.9	13.8	33.8	19.4

120.2 Days After Planting

UNIFORM TEST I Roundup-Ready, 2012

YIELD (bu/a)

Strain	Mean 7 Tests	Lafayette* IN	Wanatah IN	Ingham* County MI	Saginaw County MI	Lamberton MN	Waseca MN	Beemer NE	Cotesfield* NE	Phillips NE	St. Hyacinthe Que.
SD1161RR/(SCN)	49.9	41.9	49.3	25.6	37.9	32.6	58.2	36.5	44.4	73.1	61.9
AG1230 (E)	47.0	31.5	48.4	26.0	30.5	36.3	60.9	24.5	108.7	63.1	65.6
U07-135601R	49.7	46.9	55.6	19.4	31.6	38.7	60.4	41.7	77.5	53.2	66.9
AG2031	53.5	39.5	50.7	30.4	41.7	39.1	67.8	37.1	100.6	59.3	78.9
M00-530039	46.3	26.7	45.1	20.4	24.6	33.6	62.8	35.8	88.1	62.4	60.1
M06R-150044	38.9	12.2	37.0	28.2	28.5	32.0	49.6	20.8	60.3	57.3	47.1
M06R-152009	38.1	18.5	44.1	14.1	25.3	29.8	52.8	23.7	69.5	41.8	49.5
Location Mean		31.0	47.2	23.4	31.4	34.6	58.9	31.4	78.4	58.6	61.4
C.V. (%)		15.4	9.7	16.3	14.8	9.8	7.8	10.1	49.2	11.3	17.2
L.S.D. (5%)		5.7	8.2	12.0	14.6	5.9	7.9	8.3	101.0	17.3	
Row Sp. (In.)		30	30	15	15	30	30	30	30	30	14
Rows/Plot		4	4	6	6	4	4	4	4	4	4
Reps		3	3	2	2	3	3	2	2	2	3

*Data not included in mean.

UNIFORM TEST I Roundup-Ready, 2012

YIELD RANK

Strain	Yield Rank	Lafayette IN	Wanatah IN	Ingham County MI	Saginaw County MI	Lamberton MN	Waseca MN	Beemer NE	Cotesfield NE	Phillips NE	St. Hyacinthe Que.
SD1161RR/(SCN)	2	2	3	4	2	5	5	3	7	1	4
AG1230 (E)	4	4	4	3	4	3	3	5	1	2	3
U07-135601R	3	1	1	6	3	2	4	1	4	6	2
AG2031	1	3	2	1	1	1	1	2	2	4	1
M00-530039	5	5	5	5	7	4	2	4	3	3	5
M06R-150044	6	7	7	2	5	6	7	7	6	5	7
M06R-152009	7	6	6	7	6	7	6	6	5	7	6

UNIFORM TEST I Roundup-Ready, 2012

MATURITY (date)

Strain	Mean 9 Tests	Lafayette IN	Wanatah IN	Ingham County MI	Saginaw County MI	Lamberton MN	Waseca MN	Beemer NE	Cotesfield NE	Phillips NE	St. Hyacinthe Que.
SD1161RR/(SCN)	9/10	9/6	9/6	9/8	9/11	9/19	9/16	8/31	9/14		9/18
AG1230 (E)	-5.9	-13	-5	-7	-1	-8	-7	-7	-6		-6
U07-135601R	3.0	7	5	6	2	2	3	2	-4		4
AG2031	1.4	1	2	5	1	-3	1	3	-1		4
M00-530039	-3.9	-10	-3	-6	-1	-4	-5	-2	-1		-4
M06R-150044	-6.3	-11	-3	-6	-2	-7	-9	-6	-7		-6
M06R-152009	-6.6	-14	-5	-8	-1	-7	-8	-5	-4		-7
Date Planted	5/14	5/14	5/17	5/10	5/18	5/17	5/15	5/9	5/17		5/17
Days to Mature	119	115	112	121		125	124	114	120		124

UNIFORM TEST I Roundup-Ready, 2012

LODGING (score)

Strain	Mean 6 Tests	Lafayette IN	Wanatah IN	Ingham County MI	Saginaw County MI	Lamberton MN	Waseca MN	Beemer NE	Cotesfield NE	Phillips NE	St. Hyacinthe Que.
SD1161RR/(SCN)	1.1	1.0	1.2	1.0	1.0	1.3	1.0				
AG1230 (E)	1.0	1.0	1.0	1.0	1.0	1.0	1.0				
U07-135601R	1.0	1.0	1.0	1.0	1.0	1.0	1.0				
AG2031	1.0	1.0	1.0	1.0	1.0	1.0	1.0				
M00-530039	1.0	1.0	1.0	1.0	1.0	1.0	1.0				
M06R-150044	1.0	1.0	1.0	1.0	1.0	1.0	1.0				
M06R-152009	1.0	1.0	1.0	1.0	1.0	1.0	1.0				

UNIFORM TEST I Roundup-Ready, 2012

PLANT HEIGHT (inches)

Strain	Mean 5 Tests	Lafayette IN	Wanatah IN	Ingham County MI	Saginaw County MI	Lamberton MN	Waseca MN	Beemer NE	Cotesfield NE	Phillips NE	St. Hyacinthe Que.
SD1161RR/(SCN)	30	33	33	23	22					39	
AG1230 (E)	28	31	32	22	23					34	
U07-135601R	28	31	32	21	23					35	
AG2031	32	35	34	24	25					41	
M00-530039	28	26	32	22	20					40	
M06R-150044	29	30	34	24	23					35	
M06R-152009	27	30	31	20	20					36	

UNIFORM TEST I Roundup-Ready, 2012

SEED QUALITY (score)

Strain	Mean 5 Tests	Lafayette IN	Wanatah IN	Ingham County MI	Saginaw County MI	Lamberton MN	Waseca MN	Beemer NE	Cotesfield NE	Phillips NE	St. Hyacinthe Que.
SD1161RR/(SCN)	2.5	2.0	1.5			3.0	3.0				3.0
AG1230 (E)	1.7	2.0	1.0			2.0	1.0				2.7
U07-135601R	1.4	2.0	1.0			1.0	1.0				2.0
AG2031	1.9	3.0	1.5			1.0	2.0				2.0
M00-530039	1.9	1.5	1.5			1.0	3.0				2.7
M06R-150044	2.2	2.0	1.5			2.0	3.0				2.7
M06R-152009	2.1	2.0	1.5			1.0	3.0				3.0

UNIFORM TEST I Roundup-Ready, 2012

SEED SIZE (g/100)

Strain	Mean 8 Tests	Lafayette IN	Wanatah IN	Ingham County MI	Saginaw County MI	Lamberton MN	Waseca MN	Beemer NE	Cotesfield NE	Phillips NE	St. Hyacinthe Que.
SD1161RR/(SCN)	14.7	14.7	13.8	14.2	15.8	15.6	14.1		15.9	13.5	
AG1230 (E)	15.3	12.6	16.0	14.8	14.5	17.2	15.4		17.5	14.1	
U07-135601R	14.0	15.6	12.8	13.1	13.6	13.8	13.8		17.0	11.9	
AG2031	16.1	14.9	14.6	16.9	15.6	17.4	15.5		19.4	14.8	
M00-530039	15.5	13.5	16.1	13.5	13.9	18.3	15.7		18.5	14.2	
M06R-150044	15.4	12.1	15.3	14.6	17.4	15.9	13.6		18.7	15.8	
M06R-152009	13.6	11.7	13.9	11.1	14.2	14.8	14.0		16.4	12.9	

UNIFORM TEST I Roundup-Ready, 2012

PROTEIN (%)

Strain	Mean 4 Tests	Lamberton MN	Waseca MN	Phillips NE	Wanatah IN
SD1161RR/(SCN)	34.2	35.7	34.5	32.9	33.8
AG1230 (E)	33.4	33.9	33.9	33.4	32.3
U07-135601R	33.7	34.7	33.7	32.8	33.7
AG2031	33.9	34.7	33.5	33.8	33.5
M00-530039	34.3	35.5	35.0	33.4	33.2
M06R-150044	34.7	36.1	35.0	35.5	32.1
M06R-152009	34.9	35.6	35.1	34.7	34.0

UNIFORM TEST I Roundup-Ready, 2012

OIL (%)

Strain	Mean 4 Tests	Lamberton MN	Waseca MN	Phillips NE	Wanatah IN
SD1161RR/(SCN)	18.3	17.1	17.5	19.6	19.2
AG1230 (E)	19.2	18.0	18.5	20.2	20.2
U07-135601R	19.2	18.7	18.5	20.2	19.5
AG2031	19.5	18.4	19.2	20.3	19.9
M00-530039	19.3	18.6	18.3	19.9	20.3
M06R-150044	19.2	18.4	18.8	19.1	20.4
M06R-152009	19.6	19.0	18.7	20.2	20.4

Uniform Test II Roundup-Ready, 2012

Ent.	Strain	Parentage	Seed Source	Previous Testing	Gen. Comp.	Unique Traits
1	U06-814223R (II)	na	Graef	2	F5	RR,Dt
2.	AG2031 (E)	na	Monsanto			
3.	AG2606	na	Monsanto	2		
4.	NEX2905A0R (L)	na	Graef	7		Det.
5.	U07-135601R	na	Graef	11 UTI-RR	F4	RR, dt
6.	U07-135636R	na	Graef	3	F4	RR, SCN?, dt
7.	U07-236940R	NEX2403K2R x U03-130145R	Graef	2	F5	RR,SCN?
8.	U11-607166R	U07-338254R X U07-135478R	Graef	new	F4	SCN, Rc, Rk, BSR, SDS, dt
9.	U11-609163R	U07-135478R X U08-917024R	Graef	new	F4	SCN, Rc, Rk
10.	U11-629168R	U07-439042R X U07-135478R	Graef	new	F4	SCN, Rc, Rk, BSR, SDS, dt
11.	U11-638173R	U07-236486R X U07-135478R	Graef	new	F4	SCN, Rc, Rk, BSR, SDS, dt
12.	U11-642173R	U07-236486R X U07-135478R	Graef	new	F4	SCN, Rc, Rk, BSR, SDS, dt
13.	U11-902111R	U07-338254R X U07-135478R	Graef	new	F4	SCN, Rc, Rk, BSR, SDS, dt
14.	U11-902116R	U07-338254R X U07-135478R	Graef	new	F4	SCN, Rc, Rk, BSR, SDS, dt
15.	U11-906115R	U08-924029R X U07-439221R	Graef	new	F4	SCN, Oil, Rc, Rk, BSR, PS, FE dt
16.	U11-924115R	U07-439042R X U07-135478R	Graef	new	F4	SCN, Rc, Rk, BSR, SDS, dt
17.	U11-924119R	U07-439042R X U07-135478R	Graef	new	F4	SCN, Rc, Rk, BSR, SDS, dt
18.	U11-925119R	U07-439042R X U07-135478R	Graef	new	F4	SCN, Rc, Rk, BSR, SDS, dt
19.	U11-926111R	U07-439042R X U07-135478R	Graef	new	F4	SCN, Rc, Rk, BSR, SDS, dt
20.	U11-927115R	U07-237058R X U07-135478R	Graef	new	F4	SCN, Rc, Rk, BSR, SDS, dt
21.	U11-927121R	U07-237058R X U07-135478R	Graef	new	F4	SCN, Rc, Rk, BSR, SDS, dt
22.	U11-931121R	U07-236486R X U07-135478R	Graef	new	F4	SCN, Rc, Rk, BSR, SDS, dt

UNIFORM TEST II Roundup-Ready, 2012

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	Chlorosis Score Danvers MN	Green Stem Score Wanatah IN
U06-814223R (II)	WTBDYBlD	1.0	1.0
AG2031 (E)	PGBDYIbI	1.6	1.0
AG2606	PGBDYIbI	1.8	1.0
NEX2905A0R (L)	PGBDYIbD	2.1	1.0
U07-135601R	PGTDYIbI	1.2	1.0
U07-135636R	WTTDYBlI	1.6	1.0
U07-236940R	PTTDYBlI	1.4	1.0
U11-607166R	PGTDYIbI	1.3	1.0
U11-609163R	P+WTTDYBlI	0.9	1.0
U11-629168R	WGBSYYI	1.6	1.0
U11-638173R	WGBDYBlI	1.0	1.0
U11-642173R	WGBDYLbfI	1.6	1.0
U11-902111R	PTBDYBlI	1.1	1.0
U11-902116R	PGTDYIbI	1.3	1.0
U11-906115R	PTBDYBlI	1.0	1.0
U11-924115R	P+WTBSYBlI	1.8	1.0
U11-924119R	PTBIYBlI	1.0	1.0
U11-925119R	PTBIYBlI	1.6	1.0
U11-926111R	PTBDYBlI	1.4	1.0
U11-927115R	WTTDYBlI	1.1	1.0
U11-927121R	PTTDYBlI	1.3	1.0
U11-931121R	WTBDYBlI	1.4	1.0

UNIFORM TEST II Roundup-Ready, 2012

REGIONAL SUMMARY

No. of Tests Strain	Yield 9 bu/a	Rank 9 No.	Maturity 9 Date	Lodging 8 Score	Plant Height 5 In.	Seed Quality 5 Score	Seed Size 9 g/100	Composition Protein 7 %	 Oil 7 %
U06-814223R (II)	57.7	5	9/17	1.0	30	1.6	14.2	34.0	19.8
AG2031 (E)	55.4	12	-4.7	1.2	32	2.0	15.9	34.5	19.4
AG2606	59.0	1	1.7	1.2	34	1.6	14.5	36.6	18.0
NEX2905A0R (L)	56.3	9	7.9	1.0	34	1.4	13.7	34.6	18.8
U07-135601R	55.0	15	-3.6	1.0	30	1.9	14.3	34.5	19.4
U07-135636R	55.5	11	2.9	1.3	41	2.0	15.9	33.9	19.8
U07-236940R	57.3	6	0.2	1.1	29	1.6	13.5	33.5	19.5
U11-607166R	58.6	4	8.1	1.2	32	2.2	15.5	34.8	19.3
U11-609163R	56.3	9	8.6	1.1	32	1.9	14.4	34.8	19.0
U11-629168R	54.1	20	5.9	1.0	30	1.8	15.4	33.4	19.7
U11-638173R	51.8	21	4.7	1.3	36	1.4	14.4	33.9	19.4
U11-642173R	50.8	22	3.7	1.0	38	1.6	14.5	33.6	19.5
U11-902111R	54.4	19	5.4	1.1	32	1.9	14.6	35.3	19.3
U11-902116R	56.9	8	7.0	1.0	33	1.8	15.4	35.0	19.3
U11-906115R	54.6	17	-1.4	1.0	35	2.1	15.3	34.0	19.1
U11-924115R	55.4	12	2.3	1.1	32	2.0	14.2	34.3	18.7
U11-924119R	58.8	2	2.6	1.2	32	1.6	14.0	33.8	19.5
U11-925119R	54.5	18	4.7	1.1	37	1.7	14.5	33.5	19.2
U11-926111R	57.2	7	3.6	1.3	33	1.7	14.4	34.0	19.8
U11-927115R	55.0	15	-0.1	1.1	31	1.7	13.4	34.3	19.2
U11-927121R	55.3	14	-1.0	1.0	27	1.7	13.8	33.3	19.2
U11-931121R	58.7	3	3.5	1.3	35	2.3	14.6	33.6	20.3

123.6 Days After Planting

UNIFORM TEST II Roundup-Ready, 2012

2011-2012 2-YEAR MEAN

No. of Tests Strain	Yield 19 bu/a	Rank 19 No.	Maturity 17 Date	Lodging 15 Score	Plant Height 12 In.	Seed Quality 12 Score	Seed Size 18 g/100	Composition Protein 9 %	 Oil 9 %
U06-814223R (II)	59.2	1	9/20	1.3	30	1.4	14.3	33.0	19.2
AG2606	57.9	2	2.8	1.2	36	1.3	14.3	35.7	17.3
NEX2905A0R (L)	56.8	5	8.9	1.3	35	1.2	13.3	33.9	17.7
U07-135636R	57.1	4	3.4	1.6	42	1.9	15.8	32.9	19.1
U07-236940R	57.7	3	1.6	1.4	31	1.6	13.7	33.1	18.5

123.9 Days After Planting

UNIFORM TEST II Roundup-Ready, 2012

YIELD (bu/a)

Strain	Mean 9 Tests	Urbana Il	Lafayette IN	Wanatah IN	Ingham* County MI	Lenawee County MI	Lamberton MN	Waseca MN	Beemer NE	Cotesfield NE	Phillips NE
U06-814223R (II)	57.7	37.4	44.1	59.8	40.9	50.2	32.2	62.4	46.1	110.7	76.8
AG2031 (E)	55.4	28.3	35.6	57.1	34.0	53.0	34.1	69.0	41.9	98.5	81.5
AG2606	59.0	43.8	49.9	60.3	49.2	52.1	32.9	63.0	44.6	101.2	83.5
NEX2905A0R (L)	56.3	42.9	47.9	53.5	53.5	46.9	37.5	58.7	49.9	93.3	76.5
U07-135601R	55.0	31.0	44.8	59.0	37.9	49.0	28.4	70.4	38.4	101.4	72.6
U07-135636R	55.5	36.6	42.8	60.3	53.6	49.7	32.3	60.9	44.8	103.5	68.8
U07-236940R	57.3	35.6	38.1	59.2	31.0	52.5	35.6	62.9	43.0	104.3	84.4
U11-607166R	58.6	44.9	47.2	64.5	38.8	49.7	34.1	60.7	48.4	99.7	78.4
U11-609163R	56.3	37.7	40.6	55.1	57.3	51.0	34.6	58.0	45.2	108.3	76.2
U11-629168R	54.1	36.0	42.5	49.3	47.4	49.7	24.5	58.9	45.5	104.4	76.1
U11-638173R	51.8	33.1	41.6	53.2	41.5	43.1	25.9	58.9	48.3	93.9	67.9
U11-642173R	50.8	34.2	41.8	51.9	48.1	44.9	32.2	57.9	45.7	84.7	63.6
U11-902111R	54.4	38.9	50.4	55.6	43.8	52.0	26.4	55.9	48.3	94.8	67.6
U11-902116R	56.9	44.5	54.9	60.7	37.5	49.1	31.9	59.4	39.8	97.9	73.7
U11-906115R	54.6	37.5	41.3	59.8	48.1	45.6	31.7	61.4	42.2	98.4	73.9
U11-924115R	55.4	39.7	45.8	56.2	38.5	50.0	32.1	59.6	42.8	102.9	69.7
U11-924119R	58.8	42.7	49.1	56.1	54.0	48.9	30.1	63.9	47.8	110.4	80.2
U11-925119R	54.5	43.0	48.3	53.1	48.6	43.8	26.2	57.5	45.6	105.0	68.4
U11-926111R	57.2	45.6	51.1	61.4	37.1	47.0	30.5	63.9	42.5	104.5	68.0
U11-927115R	55.0	36.6	43.7	57.4	32.8	49.3	33.3	65.5	44.6	97.9	66.8
U11-927121R	55.3	38.6	37.2	53.3	32.4	49.3	29.5	61.1	44.6	106.5	77.6
U11-931121R	58.7	42.2	44.0	54.2	33.3	49.0	38.3	66.6	49.9	106.3	77.5
Location Mean		38.7	44.7	56.9	42.7	48.9	31.6	61.7	45.0	101.3	74.1
C.V. (%)		11.1	14.0	8.9	18.4	5.1	12.5	8.9	10.7	7.5	8.2
L.S.D. (5%)		7.4	10.4	8.2	17.1	6.3	6.4	9.0	11.8	18.8	14.9
Row Sp. (In.)		30	30	30	15	15	30	30	30	30	30
Rows/Plot		4	4	4	6	6	4	4	4	4	4
Reps		2	3	3	2	2	3	3	2	2	2

*Data not included in mean.

UNIFORM TEST II Roundup-Ready, 2012

YIELD RANK

Strain	Yield Rank	Urbana Il	Lafayette IN	Wanatah IN	Ingham County MI	Lenawee County MI	Lamberton MN	Waseca MN	Beemer NE	Cotesfield NE	Phillips NE
U06-814223R (II)	5	14	11	6	12	6	10	8	7	1	8
AG2031 (E)	12	22	22	11	18	1	5	2	20	15	3
AG2606	1	4	4	4	5	3	8	6	13	13	2
NEX2905A0R (L)	9	6	7	17	4	18	2	17	2	21	9
U07-135601R	15	21	10	9	15	14	18	1	22	12	14
U07-135636R	11	15	14	4	3	8	9	11	12	10	16
U07-236940R	6	18	20	8	22	2	3	7	16	9	1
U11-607166R	4	2	8	1	13	9	5	12	3	14	5
U11-609163R	9	12	19	15	1	5	4	18	11	3	10
U11-629168R	20	17	15	22	9	10	22	15	10	8	11
U11-638173R	21	20	17	19	11	22	21	16	5	20	19
U11-642173R	22	19	16	21	7	20	10	19	8	22	22
U11-902111R	19	10	3	14	10	4	19	21	4	19	20
U11-902116R	8	3	1	3	16	13	13	14	21	17	13
U11-906115R	17	13	18	6	8	19	14	9	19	16	12
U11-924115R	12	9	9	12	14	7	12	13	17	11	15
U11-924119R	2	7	5	13	2	16	16	5	6	2	4
U11-925119R	18	5	6	20	6	21	20	20	9	6	17
U11-926111R	7	1	2	2	17	17	15	5	18	7	18
U11-927115R	15	15	13	10	20	11	7	4	14	18	21
U11-927121R	14	11	21	18	21	11	17	10	15	4	6
U11-931121R	3	8	12	16	19	15	1	3	1	5	7

UNIFORM TEST II Roundup-Ready, 2012

MATURITY (date)

Strain	Mean 9 Tests	Urbana Il	Lafayette IN	Wanatah IN	Ingham County MI	Lenawee County MI	Lamberton MN	Waseca MN	Beemer NE	Cotesfield NE	Phillips NE
U06-814223R (II)	9/17	9/17	9/15	9/14	9/16	9/26	9/19	9/19	9/9	9/21	
AG2031 (E)	-4.7	-11	-6	-4	-3	-4	-2	-2	-7	-4	
AG2606	1.7	-3	5	6	3	1	2	3	1	-3	
NEX2905A0R (L)	7.9	7	13	9	8	5	9	6	8	6	
U07-135601R	-3.6	-8	-4	-1	-1	-4	-3	-3	-4	-5	
U07-135636R	2.9	-2	0	6	6	2	6	3	0	5	
U07-236940R	0.2	-4	0	3	0	0	2	0	-1	1	
U11-607166R	8.1	8	14	11	9	5	8	6	5	7	
U11-609163R	8.6	7	15	12	9	6	9	6	7	6	
U11-629168R	5.9	5	9	7	6	4	9	5	6	3	
U11-638173R	4.7	1	4	6	6	5	6	5	5	5	
U11-642173R	3.7	0	3	5	7	4	6	5	0	4	
U11-902111R	5.4	4	11	7	7	1	6	4	6	3	
U11-902116R	7.0	5	11	8	8	6	8	6	5	6	
U11-906115R	-1.4	-5	0	0	1	-3	-2	-2	-1	-1	
U11-924115R	2.3	-2	3	3	5	0	1	3	4	4	
U11-924119R	2.6	-2	4	3	5	1	5	3	6	-1	
U11-925119R	4.7	5	8	6	6	2	6	4	3	3	
U11-926111R	3.6	-1	7	5	4	3	2	3	4	6	
U11-927115R	-0.1	-4	0	0	2	0	1	2	-2	0	
U11-927121R	-1.0	-3	-1	0	1	-2	1	-2	-1	-2	
U11-931121R	3.5	-1	5	5	4	2	3	6	5	3	
Date Planted	5/16	5/17	5/14	5/17	5/10	6/4	5/17	5/15	5/9	5/17	
Days to Mature	124	123	124	120		114	125	127	123	127	

UNIFORM TEST II Roundup-Ready, 2012

LODGING (score)

Strain	Mean 8 Tests	Urbana Il	Lafayette IN	Wanatah IN	Ingham County MI	Lenawee County MI	Lamberton MN	Waseca MN	Beemer NE	Cotesfield NE	Phillips NE
U06-814223R (II)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		1.0	
AG2031 (E)	1.2	1.3	1.0	1.2	1.0	1.0	1.0	1.0		2.0	
AG2606	1.2	1.0	1.0	1.2	1.0	1.0	1.0	1.0		2.0	
NEX2905A0R (L)	1.0	1.3	1.0	1.0	1.0	1.0	1.0	1.0		1.0	
U07-135601R	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		1.0	
U07-135636R	1.3	2.0	1.3	1.3	1.0	1.0	1.0	1.0		2.0	
U07-236940R	1.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0		2.0	
U11-607166R	1.2	1.3	1.0	1.0	1.0	1.0	1.0	1.0		2.0	
U11-609163R	1.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0		2.0	
U11-629168R	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		1.0	
U11-638173R	1.3	1.0	1.0	1.0	1.0	1.0	1.0	1.0		3.0	
U11-642173R	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		1.0	
U11-902111R	1.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0		2.0	
U11-902116R	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		1.0	
U11-906115R	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		1.0	
U11-924115R	1.1	1.5	1.0	1.0	1.0	1.0	1.0	1.0		1.0	
U11-924119R	1.2	1.5	1.0	1.0	1.0	1.0	1.0	1.0		2.0	
U11-925119R	1.1	1.5	1.0	1.0	1.0	1.0	1.0	1.0		1.0	
U11-926111R	1.3	1.5	1.0	1.0	1.0	1.0	1.0	1.0		3.0	
U11-927115R	1.1	1.5	1.0	1.0	1.0	1.0	1.0	1.0		1.0	
U11-927121R	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		1.0	
U11-931121R	1.3	2.0	1.0	1.0	1.0	1.0	1.0	1.0		2.0	

UNIFORM TEST II Roundup-Ready, 2012

PLANT HEIGHT (inches)

Strain	Mean 5 Tests	Urbana Il	Lafayette IN	Wanatah IN	Ingham County MI	Lenawee County MI	Lamberton MN	Waseca MN	Beemer NE	Cotesfield NE	Phillips NE
U06-814223R (II)	30	29	29	32	28	31					
AG2031 (E)	32	30	32	37	27	34					
AG2606	34	32	34	38	33	34					
NEX2905A0R (L)	34	36	32	37	30	37					
U07-135601R	30	27	30	32	27	32					
U07-135636R	41	38	43	44	40	39					
U07-236940R	29	27	29	35	24	30					
U11-607166R	32	30	31	38	25	34					
U11-609163R	32	30	31	36	31	33					
U11-629168R	30	25	28	36	29	32					
U11-638173R	36	33	35	41	35	37					
U11-642173R	38	34	39	42	37	40					
U11-902111R	32	30	31	36	28	33					
U11-902116R	33	30	35	38	27	34					
U11-906115R	35	33	36	38	33	34					
U11-924115R	32	31	32	37	28	34					
U11-924119R	32	29	29	37	30	33					
U11-925119R	37	36	36	41	36	38					
U11-926111R	33	34	33	38	28	34					
U11-927115R	31	30	32	35	25	33					
U11-927121R	27	27	28	31	21	29					
U11-931121R	35	34	37	40	29	37					

UNIFORM TEST II Roundup-Ready, 2012

SEED QUALITY (score)

Strain	Mean 5 Tests	Urbana Il	Lafayette IN	Wanatah IN	Ingham County MI	Lenawee County MI	Lamberton MN	Waseca MN	Beemer NE	Cotesfield NE	Phillips NE
U06-814223R (II)	1.6	2.0	2.0	1.0			1.0	2.0			
AG2031 (E)	2.0	2.0	3.0	1.0			2.0	2.0			
AG2606	1.6	3.0	2.0	1.0			1.0	1.0			
NEX2905A0R (L)	1.4	2.0	2.0	1.0			1.0	1.0			
U07-135601R	1.9	1.0	1.5	1.0			3.0	3.0			
U07-135636R	2.0	2.0	3.0	1.0			2.0	2.0			
U07-236940R	1.6	1.0	2.0	1.0			2.0	2.0			
U11-607166R	2.2	3.0	3.0	1.0			1.0	3.0			
U11-609163R	1.9	3.0	2.5	1.0			2.0	1.0			
U11-629168R	1.8	3.0	2.0	1.0			1.0	2.0			
U11-638173R	1.4	2.0	2.0	1.0			1.0	1.0			
U11-642173R	1.6	2.0	2.0	1.0			1.0	2.0			
U11-902111R	1.9	3.0	2.5	1.0			1.0	2.0			
U11-902116R	1.8	3.0	2.0	1.0			1.0	2.0			
U11-906115R	2.1	2.0	3.5	1.0			2.0	2.0			
U11-924115R	2.0	2.0	3.0	1.0			1.0	3.0			
U11-924119R	1.6	2.0	2.0	1.0			2.0	1.0			
U11-925119R	1.7	3.0	2.5	1.0			1.0	1.0			
U11-926111R	1.7	2.0	2.5	1.0			1.0	2.0			
U11-927115R	1.7	2.0	1.5	1.0			2.0	2.0			
U11-927121R	1.7	2.0	1.5	1.0			1.0	3.0			
U11-931121R	2.3	3.0	2.5	1.0			3.0	2.0			

UNIFORM TEST II Roundup-Ready, 2012

SEED SIZE (g/100)

Strain	Mean 9 Tests	Urbana Il	Lafayette IN	Wanatah IN	Ingham County MI	Lenawee County MI	Lamberton MN	Waseca MN	Beemer NE	Cotesfield NE	Phillips NE
U06-814223R (II)	14.2	14.5	14.0	13.3	13.3	14.7	11.8	13.2		18.6	14.2
AG2031 (E)	15.9	14.7	13.9	14.5	16.8	16.2	16.0	16.0		18.8	16.0
AG2606	14.5	15.3	13.3	12.6	15.8	14.8	13.5	14.6		16.5	14.4
NEX2905A0R (L)	13.7	15.8	14.3	11.9	13.6	12.9	11.6	12.5		17.1	14.0
U07-135601R	14.3	13.3	13.7	12.9	14.3	14.8	13.5	14.0		17.2	15.2
U07-135636R	15.9	17.3	16.0	13.7	17.0	15.8	14.6	15.0		18.7	14.6
U07-236940R	13.5	13.1	15.2	12.5	12.7	13.9	12.2	12.6		16.0	13.5
U11-607166R	15.5	18.2	17.2	13.4	15.3	13.7	12.1	14.1		20.4	15.2
U11-609163R	14.4	15.8	13.2	12.8	15.8	14.5	12.3	13.6		17.6	13.7
U11-629168R	15.4	17.0	15.0	13.7	15.3	15.7	14.0	14.2		17.4	16.5
U11-638173R	14.4	15.5	13.6	12.7	14.6	15.3	13.1	12.9		18.0	14.3
U11-642173R	14.5	15.3	14.4	12.4	15.6	15.0	13.8	13.5		17.3	13.5
U11-902111R	14.6	15.8	16.3	12.8	15.7	14.3	12.8	13.3		17.0	13.7
U11-902116R	15.4	17.6	17.2	13.2	14.8	14.0	11.7	14.0		20.4	15.4
U11-906115R	15.3	15.9	16.6	13.5	16.7	14.6	14.2	13.2		18.5	14.6
U11-924115R	14.2	14.8	14.3	12.3	13.8	14.6	13.4	13.4		16.6	14.2
U11-924119R	14.0	14.3	14.9	12.5	13.4	14.3	12.7	12.7		17.5	13.9
U11-925119R	14.5	16.1	14.4	13.1	14.5	15.2	13.4	13.3		16.6	14.3
U11-926111R	14.4	15.3	15.7	13.1	13.5	14.0	12.5	14.4		16.8	14.4
U11-927115R	13.4	13.9	12.9	11.4	12.1	14.2	12.3	12.5		17.7	13.5
U11-927121R	13.8	15.0	12.8	12.1	13.7	13.5	12.3	13.1		17.1	14.1
U11-931121R	14.6	13.3	15.1	12.6	14.6	15.0	14.5	14.8		17.6	13.8

UNIFORM TEST II Roundup-Ready, 2012

PROTEIN (%)

Strain	Mean 7 Tests	Urbana IL	Lamberton MN	Waseca MN	Lafayette IN	Wanatah IN	Cotesfield NE	Phillips NE
U06-814223R (II)	34.0	33.4	34.1	34.3	34.5	33.9	34.1	33.7
AG2031 (E)	34.5	33.9	33.9	34.7	34.8	35.8	34.6	34.0
AG2606	36.6	36.7	36.3	37.1	36.7	37.0	36.0	36.4
NEX2905A0R (L)	34.6	34.9	33.3	33.8	36.4	34.2	34.8	35.0
U07-135601R	34.5	33.9	34.6	34.7	35.8	34.5	34.0	33.9
U07-135636R	33.9	34.6	33.8	32.9	36.1	33.3	33.8	32.8
U07-236940R	33.5	32.9	32.7	34.1	34.4	33.5	33.3	33.4
U11-607166R	34.8	35.8	34.9	34.0	36.9	34.2	34.6	33.5
U11-609163R	34.8	34.7	34.9	33.2	37.5	34.7	34.3	34.1
U11-629168R	33.4	33.8	34.0	33.3	34.5	33.3	32.6	32.5
U11-638173R	33.9	34.3	34.4	34.1	34.4	33.0	33.8	33.5
U11-642173R	33.6	33.2	33.3	33.8	34.9	33.6	33.4	33.0
U11-902111R	35.3	34.3	35.8	35.3	37.5	34.9	34.6	34.6
U11-902116R	35.0	34.6	35.5	35.1	36.9	33.7	35.3	34.0
U11-906115R	34.0	33.5	34.0	33.4	34.8	34.4	34.2	33.4
U11-924115R	34.3	34.3	34.1	34.3	35.5	34.1	34.0	33.6
U11-924119R	33.8	33.1	33.1	34.0	35.2	33.5	34.1	33.6
U11-925119R	33.5	34.5	33.1	33.1	35.1	32.8	32.5	33.3
U11-926111R	34.0	34.2	33.6	32.9	35.3	33.6	34.1	34.2
U11-927115R	34.3	32.8	34.5	35.2	35.3	33.9	34.8	33.7
U11-927121R	33.3	33.1	33.7	32.8	34.5	33.4	33.4	32.4
U11-931121R	33.6	34.3	33.7	31.8	35.4	33.4	34.1	32.8

UNIFORM TEST II Roundup-Ready, 2012

OIL (%)

Strain	Mean 7 Tests	Urbana IL	Lamberton MN	Waseca MN	Lafayette IN	Wanatah IN	Cotesfield NE	Phillips NE
U06-814223R (II)	19.8	21.0	18.3	18.4	20.8	20.1	19.7	20.3
AG2031 (E)	19.4	21.0	18.6	18.6	20.0	19.1	18.9	19.7
AG2606	18.0	18.9	17.0	17.1	18.5	17.7	18.4	18.2
NEX2905A0R (L)	18.8	19.3	18.8	18.7	18.8	19.1	18.3	18.7
U07-135601R	19.4	20.9	18.5	18.2	19.8	19.2	19.1	19.8
U07-135636R	19.8	20.2	18.8	20.0	19.7	20.0	19.5	20.1
U07-236940R	19.5	20.5	19.7	18.6	19.8	19.0	18.9	19.8
U11-607166R	19.3	19.4	18.3	18.9	19.3	19.8	19.2	20.0
U11-609163R	19.0	19.8	17.9	19.0	18.5	19.2	18.7	19.8
U11-629168R	19.7	20.7	18.3	18.9	20.3	19.5	19.9	20.2
U11-638173R	19.4	20.2	18.6	18.4	19.8	19.4	19.4	19.8
U11-642173R	19.5	20.7	18.8	19.2	19.5	19.2	19.5	19.7
U11-902111R	19.3	20.4	18.4	18.9	19.1	19.5	18.9	19.7
U11-902116R	19.3	20.4	18.0	18.9	19.3	20.0	18.9	19.8
U11-906115R	19.1	20.2	18.2	18.6	19.6	18.8	18.9	19.5
U11-924115R	18.7	19.9	18.2	17.9	19.4	18.4	18.4	18.8
U11-924119R	19.5	20.9	19.2	18.4	20.1	19.2	19.1	19.6
U11-925119R	19.2	19.7	18.7	18.9	19.2	19.5	19.5	19.2
U11-926111R	19.8	20.5	19.4	19.8	20.1	19.8	19.3	19.9
U11-927115R	19.2	20.9	18.9	17.8	19.6	19.3	18.6	19.4
U11-927121R	19.2	20.2	18.3	18.8	19.6	18.8	18.8	20.0
U11-931121R	20.3	21.1	19.7	20.2	20.3	20.3	19.8	20.4

Uniform Test III Roundup-Ready, 2012

Ent.	Strain	Parentage	Seed Source	Previous Testing	Gen. Comp.	Unique Traits
1	U03-827101 (SCN)	na	Monsanto	4		RR, SCN
2.	NEX2905A0R (E)	na	Graef	5		Det.
3.	AG3504	na	Monsanto	4		
4.	AG3803	na	Monsanto	3		RR, SCN
5.	LD09-17071R2	LD00-3309 x Mosanto RR2	Diers	new	F5	RR2
6.	LD09-17123R2	LD00-3309 x Mosanto RR2	Diers	new	F5	RR2
7.	LD09-17140R2	LD00-3309 x Mosanto RR2	Diers	new	F5	RR2
8.	LD09-17213R2	LD00-3309 x Mosanto RR2	Diers	new	F5	RR2
9.	LD09-17220R2	LD00-3309 x Mosanto RR2	Diers	new	F5	RR2
10.	U11-602165R	U07-338254R X U07-135478R	Graef	new	F4	SCN, Rc, Rk, BSR, PS, FE dt SDS
11.	U11-603167R	U07-338254R X U07-135478R	Graef	new	F4	SCN, Rc, Rk, BSR, PS, FE dt SDS
12.	U11-604181R	U07-338254R X U07-135478R	Graef	new	F4	SCN, Rc, Rk, BSR, PS, FE dt SDS
13.	U11-605178R	U07-338254R X U07-135478R	Graef	new	F4	SCN, Rc, Rk, BSR, PS, FE dt SDS
14.	U11-605186R	U07-338254R X U07-135478R	Graef	new	F4	SCN, Rc, Rk, BSR, PS, FE dt SDS
15.	U11-606184R	U07-338254R X U07-135478R	Graef	new	F4	SCN, Rc, Rk, BSR, PS, FE dt SDS
16.	U11-607174R	U07-338254R X U07-135478R	Graef	new	F4	SCN, Rc, Rk, BSR, PS, FE dt SDS
17.	U11-608163R	U07-338254R X U07-135478R	Graef	new	F4	SCN, Rc, Rk, BSR, PS, FE dt SDS
18.	U11-608165R	U07-338254R X U07-135478R	Graef	new	F4	SCN, Rc, Rk, BSR, PS, FE dt SDS
19.	U11-608172R	U07-338254R X U07-135478R	Graef	new	F4	SCN, Rc, Rk, BSR, PS, FE dt SDS
20.	U11-609165R	U07-338254R X U07-135478R	Graef	new	F4	SCN, Rc, Rk, BSR, PS, FE dt SDS
21.	U11-610186R	U07-135478R X U08-917024R	Graef	new	F4	SCN, Rc, Rk, BSR, SDS, dt
22.	U11-611178R	U07-135478R X U08-917024R	Graef	new	F4	SCN, Rc, Rk, BSR, SDS, dt
23.	U11-643172R	U07-236486R X U08-924029R	Graef	new	F4	SCN, Rc, BSR, dt Rk
24.	U11-904117R	U07-135478R X U08-924029R	Graef	new	F4	SCN, Rc, Rk, BSR, SDS, dt

UNIFORM TEST III Roundup-Ready, 2012

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	Green Stem Score Wanatah IN	SDS DX Shawneetown IL
U03-827101 (SCN)	WTBDYBlI	1.0	11.7
NEX2905A0R (E)	PGBDYIbD	1.0	8.9
AG3504	PGBDYIbI	1.0	4.4
AG3803	PGBDYIbI	1.0	18.3
LD09-17071R2	PGBDYIbI	1.0	12.2
LD09-17123R2	WTBDYBlI	1.0	1.1
LD09-17140R2	PTTDYBlI	1.0	17.8
LD09-17213R2	WTBDYBlI	1.0	41.1
LD09-17220R2	PTBDYBlI	1.0	3.3
U11-602165R	WGTDYBfI	1.0	44.4
U11-603167R	PGTDYIbI	1.0	52.8
U11-604181R	WGTDYBfI	1.0	1.9
U11-605178R	PGTDYIbI	1.0	63.9
U11-605186R	WGTDYLbfI	1.0	55.6
U11-606184R	PGTDYIbI	1.0	61.1
U11-607174R	PGTDYIbI	1.0	16.1
U11-608163R	PGTDYIbI	1.0	38.9
U11-608165R	WGTDYLbfI	1.0	77.8
U11-608172R	WGTDYLbfI	1.0	10.6
U11-609165R	PGTDYIbI	1.0	31.4
U11-610186R	WTTDYBlI	1.0	15.3
U11-611178R	WTTDYBlI	1.0	42.2
U11-643172R	PGTDYIbI	1.0	50.0
U11-904117R	WTTDYBlI	1.0	37.8
LD06-14187R (res)			4.4
2900CR(sus)			10.0
MAC02-256(sus)			26.1
P>F			0.0021
LSD			36.0

UNIFORM TEST III Roundup-Ready, 2012

REGIONAL SUMMARY

No. of Tests Strain	Yield 9 bu/a	Rank 9 No.	Maturity 8 Date	Lodging 8 Score	Plant Height 8 In.	Seed Quality 7 Score	Seed Size 9 g/100	Composition Protein 8 %	 Oil 8 %
U03-827101 (SCN)	56.7	11	9/23	1.6	37	2.2	15.8	35.6	19.0
NEX2905A0R (E)	53.2	23	-7.2	1.1	30	2.1	13.8	33.9	20.1
AG3504	56.7	11	-3.0	1.7	38	1.7	15.0	35.6	19.1
AG3803	64.1	1	2.8	1.5	40	1.9	15.8	35.3	19.3
LD09-17071R2	59.5	6	0.8	1.6	40	1.6	14.5	36.0	18.6
LD09-17123R2	61.1	3	2.8	1.7	42	1.8	14.6	35.4	19.2
LD09-17140R2	59.9	4	-0.2	1.4	38	1.9	13.7	35.3	19.1
LD09-17213R2	63.4	2	1.9	1.6	41	1.9	14.9	35.1	19.2
LD09-17220R2	59.9	4	-0.4	1.6	37	2.0	15.7	35.6	19.2
U11-602165R	56.0	15	-5.7	1.3	30	2.3	15.7	34.7	20.4
U11-603167R	54.9	20	-6.4	1.1	29	2.5	15.8	34.6	20.5
U11-604181R	56.0	15	-3.0	1.2	29	2.5	15.6	35.1	19.8
U11-605178R	57.5	9	-6.3	1.1	30	2.7	15.7	34.8	20.4
U11-605186R	56.5	14	-5.7	1.3	30	2.3	15.7	34.7	20.7
U11-606184R	55.1	19	-7.5	1.1	29	2.2	15.6	34.6	20.6
U11-607174R	57.6	7	-6.8	1.1	32	2.2	15.3	34.4	20.5
U11-608163R	57.2	10	-5.3	1.1	30	2.6	16.0	34.5	20.4
U11-608165R	55.3	18	-6.0	1.2	30	2.2	15.8	34.8	20.4
U11-608172R	54.6	21	-4.9	1.1	30	2.4	16.0	34.6	20.5
U11-609165R	57.6	7	-7.5	1.1	29	2.4	15.8	34.8	20.4
U11-610186R	54.0	22	0.1	1.2	31	2.3	15.8	35.4	19.8
U11-611178R	55.7	17	-0.6	1.1	31	2.1	15.3	35.2	19.9
U11-643172R	56.7	11	-3.2	1.5	38	2.3	14.8	34.2	20.3
U11-904117R	47.7	24	-1.6	1.2	33	2.9	15.0	34.3	20.0

134.4 Days After Planting

UNIFORM TEST III Roundup-Ready, 2012

YIELD (bu/a)

Strain	Mean 9 Tests	Urbana IL	Lafayette IN	Wanatah IN	Butlerville IN	Columbia MO	Portageville (Clay) MO	Portageville (Loam) MO	Clay Center NE	Lincoln NE	Phillips* NE
U03-827101 (SCN)	56.7	44.0	56.3	62.0	52.3	55.2	48.2	61.1	68.7	62.2	51.5
NEX2905A0R (E)	53.2	50.2	57.7	57.8	44.2	49.8	29.4	43.9	88.6	57.3	53.1
AG3504	56.7	50.4	61.9	55.8	43.2	49.8	47.5	55.9	79.2	66.8	47.1
AG3803	64.1	58.2	64.3	62.8	57.0	63.5	60.4	66.2	81.4	63.0	43.8
LD09-17071R2	59.5	58.3	68.0	63.7	49.4	51.1	54.4	61.7	69.2	59.9	51.7
LD09-17123R2	61.1	64.4	58.3	62.7	48.0	46.9	47.6	66.9	82.7	72.2	55.5
LD09-17140R2	59.9	54.5	53.0	61.0	51.2	44.9	51.9	72.4	85.0	65.1	44.9
LD09-17213R2	63.4	60.4	64.1	66.2	51.4	50.7	62.2	70.1	81.8	63.5	48.6
LD09-17220R2	59.9	55.6	50.3	69.4	49.7	46.5	59.6	56.7	90.7	60.2	49.3
U11-602165R	56.0	53.4	51.3	64.2	49.0	49.8	32.7	43.6	87.7	72.4	54.2
U11-603167R	54.9	50.1	54.9	59.1	43.9	53.5	34.8	40.9	83.6	73.5	50.2
U11-604181R	56.0	46.2	51.3	62.2	45.8	46.8	44.2	46.2	88.6	72.3	41.8
U11-605178R	57.5	51.8	52.8	65.7	46.7	51.3	36.8	46.6	89.6	76.2	52.3
U11-605186R	56.5	46.8	56.3	65.8	42.3	52.2	39.3	45.6	94.2	65.9	59.6
U11-606184R	55.1	49.8	48.9	59.3	41.8	52.2	36.9	38.6	92.4	76.0	50.0
U11-607174R	57.6	57.6	48.5	65.4	46.9	50.3	45.5	47.8	90.4	66.1	46.1
U11-608163R	57.2	54.8	48.8	66.1	49.7	47.3	41.7	43.4	86.8	75.7	48.3
U11-608165R	55.3	51.9	50.5	64.8	46.2	48.3	37.5	45.8	85.3	67.3	49.8
U11-608172R	54.6	43.4	53.0	63.8	41.7	51.6	39.0	43.8	88.6	66.9	46.8
U11-609165R	57.6	52.3	52.9	65.4	46.0	47.0	43.9	47.9	92.7	69.9	53.9
U11-610186R	54.0	44.7	54.5	63.2	45.2	48.4	43.9	46.0	78.0	62.2	55.6
U11-611178R	55.7	45.8	47.3	62.5	42.8	45.2	43.2	50.3	94.9	69.7	64.0
U11-643172R	56.7	46.2	46.4	53.4	43.2	49.9	50.0	61.5	87.9	72.0	53.9
U11-904117R	47.7	37.8	40.5	60.4	31.5	43.9	32.5	45.5	82.4	55.2	49.0
Location Mean		51.2	53.8	62.6	46.2	49.8	44.3	52.0	85.4	67.1	50.9
C.V. (%)		11.0	12.7	6.4	8.4	8.9	9.4	7.0	10.3	8.0	15.9
L.S.D. (5%)		9.3	11.2	6.6	8.0	7.4	8.2	7.1	21.7	13.1	19.9
Row Sp. (in.)		30	30	30	30	30	30	30	30	30	30
Rows/Plot		4	4	4	4	4	4	4	4	4	4
Reps		2	3	3	3	3	3	3	2	2	2

*Data not included in mean.

UNIFORM TEST III Roundup-Ready, 2012

YIELD RANK

Strain	Yield Rank	Urbana IL	Lafayette IN	Wanatah IN	Butlerville IN	Columbia MO	Portageville (Clay) MO	Portageville (Loam) MO	Clay Center NE	Lincoln NE	Phillips NE
U03-827101 (SCN)	11	22	8	17	2	2	7	7	24	19	11
NEX2905A0R (E)	23	14	6	22	16	13	24	19	8	23	8
AG3504	11	13	4	23	18	12	9	9	21	13	19
AG3803	1	4	2	13	1	1	2	4	20	18	23
LD09-17071R2	6	3	1	11	7	8	4	5	23	22	10
LD09-17123R2	3	1	5	14	9	19	8	3	17	7	4
LD09-17140R2	4	8	11	18	4	23	5	1	15	16	22
LD09-17213R2	2	2	3	2	3	9	1	2	19	17	17
LD09-17220R2	4	6	18	1	5	21	3	8	5	21	15
U11-602165R	15	9	15	9	8	14	22	21	12	5	5
U11-603167R	20	15	9	21	17	3	21	23	16	4	12
U11-604181R	15	18	15	16	14	20	11	14	9	6	24
U11-605178R	9	12	14	5	11	7	20	13	7	1	9
U11-605186R	14	17	7	4	21	4	16	17	2	15	2
U11-606184R	19	16	19	20	22	5	19	24	4	2	13
U11-607174R	7	5	21	6	10	10	10	12	6	14	21
U11-608163R	10	7	20	3	5	17	15	22	13	3	18
U11-608165R	18	11	17	8	12	16	18	16	14	11	14
U11-608172R	21	23	11	10	23	6	17	20	10	12	20
U11-609165R	7	10	13	6	13	18	12	11	3	9	7
U11-610186R	22	21	10	12	15	15	12	15	22	20	3
U11-611178R	17	20	22	15	20	22	14	10	1	10	1
U11-643172R	11	18	23	24	18	11	6	6	11	8	6
U11-904117R	24	24	24	19	24	24	23	18	18	24	16

UNIFORM TEST III Roundup-Ready, 2012

MATURITY (date)

Strain	Mean 8 Tests	Urbana IL	Lafayette IN	Wanatah IN	Butlerville IN	Columbia MO	Portageville (Clay) MO	Portageville (Loam) MO	Clay Center NE	Lincoln NE	Phillips NE
U03-827101 (SCN)	9/23	10/2	10/10	9/30	9/22	9/21	9/14	9/9	9/17		
NEX2905A0R (E)	-7.2	-7	-6	-4	-10	-8	-8	-9	-6		
AG3504	-3.0	-5	-3	1	-7	-7	-2	-2	1		
AG3803	2.8	8	4	4	3	2	1	0	0		
LD09-17071R2	0.8	4	3	6	-5	-1	-1	-1	1		
LD09-17123R2	2.8	6	5	5	-2	1	2	1	4		
LD09-17140R2	-0.2	4	3	3	-4	-5	-1	-1	0		
LD09-17213R2	1.9	6	4	3	0	1	1	-1	1		
LD09-17220R2	-0.4	5	2	1	-5	-4	-2	-1	1		
U11-602165R	-5.7	-9	-11	-5	-8	-3	-8	-2	0		
U11-603167R	-6.4	-9	-5	-4	-9	-2	-7	-9	-6		
U11-604181R	-3.0	6	-7	-4	-8	-3	-3	-9	4		
U11-605178R	-6.3	-8	-5	-4	-10	0	-6	-11	-6		
U11-605186R	-5.7	-10	-7	-3	-9	-1	-3	-12	0		
U11-606184R	-7.5	-9	-8	-4	-9	-3	-10	-12	-5		
U11-607174R	-6.8	-6	-11	-3	-9	-1	-8	-10	-6		
U11-608163R	-5.3	-7	-6	-3	-7	-1	-7	-11	0		
U11-608165R	-6.0	-8	-5	-3	-9	-2	-8	-9	-4		
U11-608172R	-4.9	1	-10	-4	-8	-2	-7	-9	0		
U11-609165R	-7.5	-8	-12	-4	-8	-4	-8	-10	-6		
U11-610186R	0.1	4	3	0	0	0	0	-6	0		
U11-611178R	-0.6	-9	4	3	3	2	0	-3	-5		
U11-643172R	-3.2	-9	-3	3	-6	-6	-1	0	-3		
U11-904117R	-1.6	-1	1	-4	-7	1	-2	-5	4		
Date Planted	5/11	5/17	5/14	5/17	5/22	5/16	4/23	5/1	5/11	5/18	5/8
Days to Mature	134	138	149	136	123	128	144	131	129		

UNIFORM TEST III Roundup-Ready, 2012

LODGING (score)

Strain	Mean 8 Tests	Urbana IL	Lafayette IN	Wanatah IN	Butlerville IN	Columbia MO	Portageville (Clay) MO	Portageville (Loam) MO	Clay Center NE	Lincoln NE	Phillips NE
U03-827101 (SCN)	1.6	1.0	1.0	1.0	1.0	1.5	2.0	2.0	3.0		
NEX2905A0R (E)	1.1	1.0	1.0	1.0	1.0	1.5	1.0	1.0	1.0		
AG3504	1.7	1.3	1.0	1.5	1.0	1.5	2.0	2.0	3.0		
AG3803	1.5	1.8	1.0	1.7	1.0	1.5	2.0	2.0	1.0		
LD09-17071R2	1.6	1.3	1.0	1.3	1.0	1.5	2.0	2.0	3.0		
LD09-17123R2	1.7	1.5	1.0	1.5	1.0	1.7	2.0	2.0	3.0		
LD09-17140R2	1.4	1.0	1.0	1.0	1.0	1.5	2.0	2.0	2.0		
LD09-17213R2	1.6	1.5	1.0	1.7	1.0	1.5	2.0	2.0	2.0		
LD09-17220R2	1.6	2.0	1.0	1.0	1.0	1.5	2.0	2.0	2.0		
U11-602165R	1.3	1.0	1.0	1.0	1.0	1.5	1.0	2.0	2.0		
U11-603167R	1.1	1.0	1.0	1.0	1.0	1.5	1.0	1.0	1.0		
U11-604181R	1.2	1.0	1.0	1.0	1.0	1.5	1.0	1.0	2.0		
U11-605178R	1.1	1.0	1.0	1.0	1.0	1.5	1.0	1.0	1.0		
U11-605186R	1.3	1.0	1.0	1.0	1.0	1.5	2.0	1.0	2.0		
U11-606184R	1.1	1.0	1.0	1.0	1.0	1.5	1.0	1.0	1.0		
U11-607174R	1.1	1.0	1.0	1.0	1.0	1.5	1.0	1.0	1.0		
U11-608163R	1.1	1.0	1.0	1.0	1.0	1.5	1.0	1.0	1.0		
U11-608165R	1.2	1.0	1.0	1.0	1.0	1.5	1.0	1.0	2.0		
U11-608172R	1.1	1.0	1.0	1.0	1.0	1.5	1.0	1.0	1.0		
U11-609165R	1.1	1.0	1.0	1.2	1.0	1.5	1.0	1.0	1.0		
U11-610186R	1.2	1.0	1.0	1.0	1.0	1.5	2.0	1.0	1.0		
U11-611178R	1.1	1.0	1.0	1.0	1.0	1.5	1.0	1.0	1.0		
U11-643172R	1.5	1.0	1.0	1.2	1.0	1.5	2.0	2.0	2.0		
U11-904117R	1.2	1.0	1.0	1.0	1.0	1.5	1.0	1.0	2.0		

UNIFORM TEST III Roundup-Ready, 2012

PLANT HEIGHT (inches)

Strain	Mean 8 Tests	Urbana IL	Lafayette IN	Wanatah IN	Butlerville IN	Columbia MO	Portageville (Clay) MO	Portageville (Loam) MO	Clay Center NE	Lincoln NE	Phillips NE
U03-827101 (SCN)	37	36	37	45	33	31	32	37	47		
NEX2905A0R (E)	30	35	36	38	32	27	15	16	39		
AG3504	38	39	39	49	35	34	28	32	51		
AG3803	40	41	39	48	37	35	35	36	53		
LD09-17071R2	40	39	42	49	36	36	34	32	48		
LD09-17123R2	42	46	45	51	38	37	32	43	47		
LD09-17140R2	38	37	37	45	33	30	38	35	46		
LD09-17213R2	41	40	42	48	39	36	37	37	52		
LD09-17220R2	37	44	35	45	32	30	30	31	53		
U11-602165R	30	33	32	37	30	27	20	18	41		
U11-603167R	29	33	34	38	31	27	17	17	39		
U11-604181R	29	33	32	38	29	26	20	18	38		
U11-605178R	30	33	33	37	31	28	18	19	40		
U11-605186R	30	32	33	39	30	26	22	18	41		
U11-606184R	29	33	32	39	31	27	17	18	37		
U11-607174R	32	35	32	39	31	28	21	21	45		
U11-608163R	30	33	33	40	31	27	23	17	39		
U11-608165R	30	32	34	39	30	29	18	19	42		
U11-608172R	30	31	33	39	30	28	18	21	43		
U11-609165R	29	32	32	39	30	27	21	17	38		
U11-610186R	31	32	35	39	33	28	22	18	41		
U11-611178R	31	33	33	38	28	27	23	19	43		
U11-643172R	38	31	41	49	38	35	36	37	41		
U11-904117R	33	38	31	41	27	26	23	22	55		

UNIFORM TEST III Roundup-Ready, 2012

SEED QUALITY (score)

Strain	Mean 7 Tests	Urbana IL	Lafayette IN	Wanatah IN	Butlerville IN	Columbia MO	Portageville (Clay) MO	Portageville (Loam) MO	Clay Center NE	Lincoln NE	Phillips NE
U03-827101 (SCN)	2.2	4.0	1.0	1.0	1.0	1.5	3.0	4.0			
NEX2905A0R (E)	2.1	2.0	1.5	1.0	2.5	1.5	3.0	3.0			
AG3504	1.7	2.0	1.0	1.0	1.5	1.5	3.0	2.0			
AG3803	1.9	2.0	1.5	1.0	1.0	1.8	3.0	3.0			
LD09-17071R2	1.6	2.0	1.0	1.0	1.0	1.5	3.0	2.0			
LD09-17123R2	1.8	2.0	1.0	1.0	1.5	2.0	3.0	2.0			
LD09-17140R2	1.9	2.0	1.0	1.0	1.0	1.5	4.0	3.0			
LD09-17213R2	1.9	3.0	1.0	1.0	1.5	1.7	3.0	2.0			
LD09-17220R2	2.0	2.0	1.5	1.0	1.0	1.8	4.0	3.0			
U11-602165R	2.3	2.0	1.5	1.0	3.0	1.7	4.0	3.0			
U11-603167R	2.5	2.0	2.0	1.0	3.5	1.8	4.0	3.0			
U11-604181R	2.5	3.0	1.5	1.0	2.0	1.7	4.0	4.0			
U11-605178R	2.7	2.0	3.0	1.0	3.0	1.8	4.0	4.0			
U11-605186R	2.3	2.0	1.5	1.0	3.0	1.7	3.0	4.0			
U11-606184R	2.2	2.0	2.0	1.0	2.0	1.7	3.0	4.0			
U11-607174R	2.2	2.0	1.5	1.0	2.5	1.5	3.0	4.0			
U11-608163R	2.6	3.0	2.0	1.0	3.0	2.0	4.0	3.0			
U11-608165R	2.2	2.0	1.5	1.0	2.0	1.8	4.0	3.0			
U11-608172R	2.4	3.0	1.5	1.0	2.5	1.7	4.0	3.0			
U11-609165R	2.4	3.0	1.5	1.0	3.0	2.0	3.0	3.0			
U11-610186R	2.3	3.0	1.0	1.0	2.5	1.8	4.0	3.0			
U11-611178R	2.1	2.0	1.0	1.0	2.0	1.5	4.0	3.0			
U11-643172R	2.3	3.0	1.5	1.0	2.0	1.8	3.0	4.0			
U11-904117R	2.9	3.0	1.5	1.0	3.5	2.2	5.0	4.0			

UNIFORM TEST III Roundup-Ready, 2012

SEED SIZE (g/100)

Strain	Mean 9 Tests	Urbana IL	Lafayette IN	Wanatah IN	Butlerville IN	Columbia MO	Portageville (Clay) MO	Portageville (Loam) MO	Clay Center NE	Lincoln NE	Phillips NE
U03-827101 (SCN)	15.8	17.4	18.3	14.9	15.3	16.5	15.3	15.3	16.0		13.4
NEX2905A0R (E)	13.8	15.3	16.9	12.3	12.2	13.1	14.0	11.9	14.6		13.6
AG3504	15.0	17.8	16.9	14.0	14.1	13.6	15.5	14.2	15.1		13.7
AG3803	15.8	18.2	17.1	14.5	16.2	17.0	14.5	16.6	14.2		14.0
LD09-17071R2	14.5	15.6	16.3	14.6	13.8	14.3	15.1	13.5	14.4		12.8
LD09-17123R2	14.6	16.7	16.4	14.1	15.1	13.6	14.6	13.9	14.2		12.7
LD09-17140R2	13.7	18.1	15.4	12.6	14.2	12.7	13.8	12.0	12.8		12.0
LD09-17213R2	14.9	16.9	17.5	14.0	15.6	14.7	14.4	14.5	13.9		12.5
LD09-17220R2	15.7	17.0	18.6	15.5	16.8	15.1	15.7	14.4	15.2		13.4
U11-602165R	15.7	18.9	18.4	12.9	13.5	15.9	16.5	14.2	17.0		14.2
U11-603167R	15.8	17.4	16.9	13.9	14.8	17.2	16.6	14.4	16.1		15.2
U11-604181R	15.6	17.2	18.9	13.5	13.5	15.6	16.8	14.4	16.5		14.1
U11-605178R	15.7	18.0	17.9	14.0	12.6	16.6	16.3	13.2	17.7		15.1
U11-605186R	15.7	18.1	17.9	13.8	13.6	16.9	15.8	13.7	17.6		14.3
U11-606184R	15.6	17.2	19.1	12.6	13.9	16.6	14.9	14.4	17.7		13.7
U11-607174R	15.3	17.5	16.6	13.5	13.2	16.1	15.4	14.0	15.9		15.3
U11-608163R	16.0	18.9	19.8	13.4	13.7	17.0	15.2	13.4	16.0		16.5
U11-608165R	15.8	18.6	19.5	13.5	13.1	15.8	15.7	14.4	16.4		15.5
U11-608172R	16.0	17.8	19.2	14.1	13.9	16.2	16.3	14.8	17.4		14.3
U11-609165R	15.8	18.0	19.0	13.9	14.4	15.2	15.8	14.6	16.7		14.5
U11-610186R	15.8	17.5	17.2	13.3	15.6	15.7	16.4	14.9	15.7		15.6
U11-611178R	15.3	17.1	17.1	14.0	14.5	16.0	15.0	14.2	15.4		14.8
U11-643172R	14.8	17.4	18.1	12.4	13.6	14.0	15.0	14.7	14.8		13.1
U11-904117R	15.0	17.4	17.0	13.5	13.1	15.5	15.2	13.6	14.8		14.9

UNIFORM TEST III Roundup-Ready, 2012

PROTEIN (%)

Strain	Mean 8 Tests	Urbana IL	Butlerville IN	Wanatah IN	Columbia MO	Portageville (Clay) MO	Portageville (Loam) MO	Clay Center NE	Phillips NE
U03-827101 (SCN)	35.6	36.8	34.6	35.6	34.2	35.4	36.7	35.8	35.8
NEX2905A0R (E)	33.9	34.5	32.5	33.9	32.7	35.1	32.9	35.4	33.9
AG3504	35.6	36.5	33.6	35.3	34.2	37.1	36.6	36.0	35.5
AG3803	35.3	36.6	33.5	35.2	33.8	36.7	36.2	35.4	34.8
LD09-17071R2	36.0	37.7	33.0	36.1	34.8	36.9	36.5	36.5	36.5
LD09-17123R2	35.4	36.9	33.4	35.7	33.6	36.2	35.6	35.5	36.2
LD09-17140R2	35.3	36.6	33.5	35.8	34.1	36.7	36.1	35.0	34.6
LD09-17213R2	35.1	35.9	33.2	34.7	33.4	36.1	35.7	36.1	35.5
LD09-17220R2	35.6	37.9	33.7	34.7	34.1	36.6	35.6	36.0	35.8
U11-602165R	34.7	35.5	32.4	34.0	34.0	36.6	34.8	35.7	34.9
U11-603167R	34.6	34.7	33.1	33.5	34.0	36.9	35.0	35.0	34.7
U11-604181R	35.1	36.5	33.3	33.9	34.4	37.4	35.3	35.3	34.9
U11-605178R	34.8	35.8	31.8	34.3	33.6	36.8	35.3	35.2	35.2
U11-605186R	34.7	35.5	31.5	33.7	34.6	36.8	35.5	35.3	34.6
U11-606184R	34.6	34.7	32.9	33.9	34.1	36.1	35.0	35.8	34.2
U11-607174R	34.4	34.6	32.2	33.3	33.8	36.3	35.0	35.7	34.6
U11-608163R	34.5	35.7	32.4	33.2	33.9	36.3	34.4	35.3	34.6
U11-608165R	34.8	35.2	31.6	34.4	34.3	36.8	35.8	35.5	34.7
U11-608172R	34.6	35.7	31.9	33.5	34.5	37.0	36.4	34.5	33.1
U11-609165R	34.8	35.5	32.4	34.0	34.0	36.9	35.6	35.3	34.5
U11-610186R	35.4	35.9	33.8	35.4	34.1	38.0	35.7	35.3	34.8
U11-611178R	35.2	34.6	33.8	35.6	34.3	37.4	36.3	34.6	34.8
U11-643172R	34.2	36.0	31.7	33.2	33.7	34.2	34.8	35.5	34.8
U11-904117R	34.3	34.8	32.8	33.7	31.1	39.1	36.3	34.0	32.9

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

UNIFORM TEST III Roundup-Ready, 2012

OIL (%)

Strain	Mean 8 Tests	Urbana IL	Butlerville IN	Wanatah IN	Columbia MO	Portageville (Clay) MO	Portageville (Loam) MO	Clay Center NE	Phillips NE
U03-827101 (SCN)	19.0	18.5	19.8	18.7	19.6	19.6	19.4	18.4	18.2
NEX2905A0R (E)	20.1	19.8	21.3	19.3	20.3	20.6	21.2	18.5	19.6
AG3504	19.1	18.6	20.1	18.5	19.4	19.0	19.8	18.6	19.0
AG3803	19.3	18.5	20.5	18.9	20.3	19.4	20.3	18.5	18.3
LD09-17071R2	18.6	17.8	20.3	17.8	18.7	19.2	19.5	17.9	17.7
LD09-17123R2	19.2	18.4	20.5	18.3	20.3	19.6	20.2	18.6	18.0
LD09-17140R2	19.1	18.7	20.0	18.3	19.8	18.9	19.3	18.9	18.9
LD09-17213R2	19.2	18.0	21.0	19.1	19.6	19.9	20.3	17.8	18.1
LD09-17220R2	19.2	17.8	20.6	19.2	19.5	19.7	20.2	18.7	18.1
U11-602165R	20.4	19.7	21.9	19.8	20.7	21.1	21.9	19.2	19.2
U11-603167R	20.5	20.4	21.0	20.1	20.8	20.7	21.5	19.5	19.7
U11-604181R	19.8	18.5	21.2	19.9	19.7	20.2	21.7	18.6	18.6
U11-605178R	20.4	19.7	21.8	19.8	21.1	20.6	21.6	19.4	19.4
U11-605186R	20.7	19.8	22.3	20.1	20.8	21.2	22.3	19.3	19.6
U11-606184R	20.6	20.4	21.2	19.8	20.8	20.8	22.0	19.3	20.3
U11-607174R	20.5	20.2	21.7	20.2	21.1	20.8	21.5	19.1	19.7
U11-608163R	20.4	19.6	21.3	20.3	20.7	20.5	21.8	19.5	19.7
U11-608165R	20.4	20.2	22.2	19.9	20.8	20.4	21.6	19.1	19.4
U11-608172R	20.5	19.5	22.0	20.2	19.7	21.2	21.8	19.2	20.2
U11-609165R	20.4	19.8	21.9	19.9	20.7	20.7	21.6	19.3	19.5
U11-610186R	19.8	19.5	20.5	19.2	20.1	19.6	20.9	19.2	19.5
U11-611178R	19.9	20.3	20.5	18.8	20.8	19.6	20.1	19.4	19.6
U11-643172R	20.3	19.7	21.4	19.8	20.8	20.6	20.7	19.4	19.8
U11-904117R	20.0	19.5	20.9	19.6	21.0	20.1	20.7	19.1	19.1