

THE UNIFORM SOYBEAN TESTS

NORTHERN REGION

2010



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

COOPERATING WITH
STATE AGRICULTURAL EXPERIMENT STATIONS
NORTHERN STATES



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UNIFORM SOYBEAN TESTS

NORTHERN STATES

2010

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RR refers to Roundup Ready®. Roundup Ready® is a registered trademark of Monsanto Technology LLC.

2010 UNIFORM SOYBEAN TESTS NORTHERN STATES

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

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 Statements or data in the report, therefore, should not be published unless those concerned have obtained permission previously.

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Participants of the Uniform Soybean Tests at the annual meeting in February 2002 unanimously voted to amend the policy for evaluation of soybean strains. The primary change in policy focused on the inclusion of proprietary and/or transgenic strains in the tests. Emphasis was placed on having breeders currently using 'Roundup Ready' germplasm that is licensed with Monsanto contact Monsanto representative(s) to confirm if the current agreement permits evaluation of RR strains in the Uniform Soybean Tests. Information obtained by the ad hoc committee of southern (B. Paris, B. Kenworthy, & G. Busse) and northern (B. Schapaugh, D. Sleeper & R. Scott) participants and guidance from Dr. Rich Wilson, USDA-ARS, NPS-Oilseeds & Bioscience, permitted evaluation of RR germplasm in the 2002 Southern Uniform Soybean Tests; northern participants elected to delay testing of RR strains until 2003. Also, since the southern and northern participants chose to establish 'Combined tests' (including both proprietary and/or transgenic and conventional strains) vs. 'Separate tests', respectfully, the two working groups established guidelines for amending the policy on evaluation somewhat independently. Modifications identified in the 2002 and 2004 business meetings of the northern participants are included in the following policy information.

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

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

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

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

| <u>Group</u> | <u>Reference:</u> | <u>Range</u> | <u>Early check</u> | <u>Late check</u> |
|--------------|-------------------|--------------|--------------------|-------------------|
| 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) |
| IRR | SD1611RR | | SD1111RR (E) | AG2002 |
| IIRR | AG2403 | | AG2002 | NEX2905A0R (L) |
| IIIRR | U03-827101 (SCN) | | NEX2905A0R (E) | AG3803 (L) |
| IVRR | AG4005 | | AG3803 (E) | AG4403 (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 | <u>Pseudomonas syringa</u> pv. <u>glycinea</u> |
| BBV | Bud blight | Tobacco ringspot virus |
| BP | Bacterial pustule | <u>Xanthomonas campestris</u> pv. <u>phaseoli</u> |
| BS | Brown spot | <u>Septoria glycines</u> |
| BSR | Brown stem rot | <u>Phialophora gregata</u> |
| BTS | Bacterial tan spot | <u>Corynebacterium flaccumfaciens</u> |
| CN | Cyst nematode | <u>Heterodera glycines</u> |
| CR | Charcoal rot | <u>Macrophomina phaseolina</u> |
| DM | Downy mildew | <u>Peronospora manshurica</u> |
| FE | Frogeye leafspot | <u>Cercospora sojina</u> |
| PM | Powdery mildew | <u>Microsphaera diffusa</u> |
| PR | Phytophthora rot | <u>Phytophthora sojae</u> |
| PS | Purple stain | <u>Cercospora kikuchii</u> |
| P&SB | Pod & stem blight | <u>Phomopsis</u> spp. |
| Pyd | Pythium root rot | <u>Pythium debaryanum</u> |
| Pyu | Pythium root rot | <u>Pythium ultimum</u> |
| RK | Root knot nematode | <u>Meloidogyne</u> spp. |
| RP | Rhizoctonia root rot | <u>Rhizoctonia solani</u> |
| SB | Sclerotial blight | <u>Sclerotium rolfsii</u> |
| NSC | Northern Stem canker | <u>Diaporthe phaseolorum</u> var. <u>caulivora</u> |
| SCL | Sclerotinia stem rot | <u>Sclerotinia sclerotiorum</u> |
| SDS | Sudden death syndrome | <u>Fusarium virguliforme</u> , (<u>F. solani</u> f.sp. <u>glycines</u>) |
| SMV | Soybean mosaic virus | Soybean mosaic virus |
| TS | Target spot | <u>Corynespora cassiicola</u> |
| 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 Chlorosis 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 25,2010.

Iowa State Iron Chlorosis scores are values on the average of 4 observations. Data was collective from Humboldt, Iowa. Planting date June 17, 2010.

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.

Development and release of soybean strains is carried out by many public institutions. 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. Breeders 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 2010

| Variety | Experimental designation | Uniform Test evaluations |
|-------------|--------------------------|--------------------------|
| Summit | HS5-3417 | 2008 UT II, 2007 PTIIB |
| Deuel | SD02-833 | UT I |
| DH530 | OAC 05-30 | 2008 UT 0, 2007 PT0 |
| DH614 | OAC 06-14 | 2008 PT 0 |
| OAC Drayton | OAC 06-32 | 2009 UT0, 2008 PT0 |

| Variety | Release date | Releasing states or Provinces | Foundation seed production |
|-------------|--------------|-------------------------------|----------------------------|
| Summit | Nov. 2010 | OH | 2010 |
| Deuel | Feb. 09 | SD | 2009 |
| DH530 | 2009 | ONT | 2009 |
| DH614 | 2010 | ONT | 2010 |
| OAC Drayton | 2010 | ONT | 2010 |

2010 Soybean Cyst Nematode Evaluations

1500 eggs per plant inoculum

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 |

For raw data, contact T. Niblack tniblack@uiuc.edu

HG Type 0 (Race 3)

| Indicator | Mean | FI | <i>retest</i> | |
|-----------|------|----|---------------|----|
| | | | <i>Mean</i> | FI |
| Lee | 195 | | 359 | |
| Essex | 153 | | 349 | |
| PI548402 | 0 | 0 | 0 | 0 |
| PI88788 | 3 | 1 | 1 | 0 |
| PI90763 | 0 | 0 | 0 | 0 |
| PI437654 | 0 | 0 | 0 | 0 |
| PI209332 | 3 | 2 | 2 | 1 |
| PI89772 | 0 | 0 | 0 | 0 |
| PI548316 | 13 | 7 | 7 | 2 |
| PI438489B | 0 | 0 | 18 | 5 |
| Pickett | 0 | 0 | 0 | 0 |

HG Type 2.5.7 (Race1)

| Indicator | Mean | FI | <i>retest</i> | |
|-----------|------|----|---------------|-----|
| | | | <i>Mean</i> | FI |
| Lee | 139 | | 392 | 392 |
| Essex | 129 | | 323 | |
| PI548402 | 0 | 0 | 1 | 0 |
| PI88788 | 81 | 58 | 216 | 55 |
| PI90763 | 0 | 0 | 1 | 0 |
| PI437654 | 0 | 0 | 0 | 0 |
| PI209332 | 68 | 49 | 251 | 64 |
| PI89772 | 0 | 0 | 0 | 0 |
| PI548316 | 93 | 67 | 260 | 66 |
| PI438489B | 27 | 20 | 1 | 0 |
| Pickett | 7 | 5 | 11 | 3 |

Note: **FI** count too low for accurate rating.

** 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 |
| 7 | ND04-11421 | 5 | 3 | HR | 112 | 81 | NR | UT00 |
| 10 | ND07-1550 | 120 | 69 | NR | 237 | 61 | NR | UT00 |
| 1 | Sheyenne | 85 | 44 | LR | 119 | 86 | NR | UT0, PT0 |
| 2 | MN1410 | 185 | 95 | NR | 111 | 80 | NR | UT0, PT0 |
| 3 | Surge | 254 | 130 | NR | 252 | 64 | NR | UT0, PT0 |
| 4 | MN0095 | 165 | 85 | NR | 118 | 85 | NR | UT0, PT0 |
| 5 | MN0606CN | 6 | 3 | HR | 108 | 78 | NR | UT0 |
| 2 | IA1022 (SCN) | 10 | 5 | HR | 111 | 80 | NR | UTI, UTII |
| 10 | AR07-175064 | 2 | 1 | HR | 272 | 69 | NR | UTI |
| 12 | M02-385041 | 2 | 1 | HR | 200 | 51 | LR | UTI |
| 13 | M02-385091 | 6 | 3 | HR | 86 | 62 | NR | UTI |
| 1 | IA2094 | 183 | 94 | NR | 98 | 71 | NR | UTII |
| 3 | IA3024 | 152 | 78 | NR | 120 | 86 | NR | UTII |
| 11 | E07048 | 3 | 2 | HR | 103 | 74 | NR | UTII |
| 12 | E07087 | 39 | 11 | R | 91 | 65 | NR | UTII |
| 13 | LD05-1540 | 52 | 14 | R | 113 | 81 | NR | UTII |
| 18 | U07-200179 | 82 | 23 | ** | 117 | 84 | NR | PTIIB |

| HG Type 0 (Race 3) | | | | | HG Type 2.5.7 (Race1) | | | |
|--------------------|--------------|------|-----|--------|-----------------------|-----|--------|-------|
| Entry | Line | Mean | FI | Rating | Mean | FI | Rating | Test |
| 19 | U07-200211 | 5 | 3 | HR | 216 | 55 | LR | PTIIB |
| 20 | U07-200215 | 93 | 48 | LR | 91 | 66 | NR | PTIIB |
| 21 | U07-200239 | 279 | 78 | NR | 102 | 73 | NR | PTIIB |
| 22 | U07-226071 | 65 | 33 | MR | 235 | 60 | NR | PTIIB |
| 23 | U07-227102 | 242 | 124 | NR | 136 | 98 | NR | PTIIB |
| 24 | U07-230086 | 195 | 100 | NR | 137 | 99 | NR | PTIIB |
| 28 | U07-402918 | 120 | 61 | NR | 97 | 70 | NR | PTIIB |
| 29 | U07-420241 | 119 | 61 | NR | 111 | 80 | NR | PTIIB |
| 30 | U08-831004 | 38 | 20 | R | 85 | 61 | NR | PTIIB |
| 1 | IA3023 | 121 | 62 | NR | 104 | 75 | NR | UTIII |
| 3 | IA3048 (SCN) | 4 | 2 | HR | 102 | 73 | NR | UTIII |
| 12 | U07-200233 | 135 | 69 | NR | 257 | 66 | NR | PTIIB |
| 13 | U07-200268 | 178 | 91 | NR | 111 | 80 | NR | PTIIB |
| 14 | U07-200271 | 145 | 74 | NR | 124 | 89 | NR | PTIIB |
| 21 | U07-326227 | 163 | 84 | NR | 109 | 78 | NR | PTIIB |
| 22 | U07-331228 | 175 | 90 | NR | 158 | 114 | NR | PTIIB |
| 23 | U07-332222 | 16 | 8 | HR | 100 | 72 | NR | PTIIB |
| 25 | U07-403002 | 55 | 15 | R | 109 | 78 | NR | PTIIB |
| 26 | U08-828035 | 32 | 16 | R | 124 | 89 | NR | PTIIB |
| 1 | LD00- 3309 | 26 | 13 | R | 95 | 69 | NR | UTIV |
| 2 | IA4004 | 175 | 90 | NR | 125 | 90 | NR | UTIV |
| 3 | LD00- 2817P | 1 | 1 | HR | 3 | 2 | HR | UTIV |
| 5 | LD05-30578a | 6 | 3 | HR | 123 | 89 | NR | UTIV |
| 6 | LD06-7609 | 13 | 7 | HR | 81 | 58 | LR | UTIV |
| 7 | LD06-7620 | 6 | 3 | HR | 106 | 76 | NR | UTIV |
| 8 | LD06-9205 | 12 | 6 | HR | 98 | 70 | NR | UTIV |
| 18 | LS07-1343 | 94 | 48 | LR | 72 | 52 | LR | PTIV |
| 19 | LS07-1942 | 3 | 1 | HR | 95 | 24 | ** | PTIV |
| 20 | LS07-2016 | 10 | 5 | HR | 228 | 58 | LR | PTIV |
| 21 | LS07-2773 | 3 | 1 | HR | 213 | 54 | LR | PTIV |
| 22 | LS07-3107 | 47 | 24 | R | 104 | 75 | NR | PTIV |
| 23 | LS07-3125 | 16 | 8 | HR | 92 | 66 | NR | PTIV |
| 24 | LS07-3126 | 13 | 7 | HR | 123 | 89 | NR | PTIV |
| 25 | LS07-3141 | 13 | 6 | HR | 105 | 75 | NR | PTIV |
| 6 | U06-812247R | 29 | 17 | R | 226 | 58 | LR | UTIRR |

| HG Type 0 (Race 3) | | | | HG Type 2.5.7 (Race1) | | | | |
|--------------------|-------------|------|-----|-----------------------|------|-----|--------|--------|
| Entry | Line | Mean | FI | Rating | Mean | FI | Rating | Test |
| 5 | U05-816069R | 15 | 8 | HR | 95 | 69 | NR | UTIIRR |
| 6 | U05-836005R | 6 | 3 | HR | 105 | 76 | NR | UTIIRR |
| 7 | U06-813215R | 28 | 15 | R | 87 | 63 | NR | UTIIRR |
| 9 | U07-135377R | 341 | 95 | NR | 115 | 83 | NR | UTIIRR |
| 10 | U07-135478R | 170 | 87 | NR | 90 | 65 | NR | UTIIRR |
| 11 | U07-135617R | 190 | 98 | NR | 112 | 81 | NR | UTIIRR |
| 12 | U07-135636R | 141 | 72 | NR | 140 | 101 | NR | UTIIRR |
| 13 | U07-236940R | 211 | 108 | NR | 100 | 72 | NR | UTIIRR |
| 14 | U07-236993R | 188 | 96 | NR | 114 | 82 | NR | UTIIRR |
| 15 | U07-338327R | 138 | 71 | NR | 111 | 80 | NR | UTIIRR |
| 4 | AG3803 | 8 | 4 | HR | 95 | 69 | NR | UTIIRR |
| 14 | U07-236420R | 23 | 12 | R | 127 | 92 | NR | UTIIRR |
| 15 | U07-236566R | 121 | 62 | NR | 99 | 71 | NR | UTIIRR |
| 17 | U07-237991R | 120 | 62 | NR | 93 | 67 | NR | UTIIRR |
| 18 | U07-438943R | 130 | 67 | NR | 125 | 90 | NR | UTIIRR |
| 19 | U07-439076R | 157 | 81 | NR | 99 | 71 | NR | UTIIRR |
| 20 | U07-439221R | 115 | 59 | LR | 125 | 90 | NR | UTIIRR |
| 22 | U08-926022R | 170 | 87 | NR | 101 | 73 | NR | UTIIRR |
| 2 | AG3803 | 8 | 4 | HR | 95 | 69 | NR | PTIVRR |
| 3 | AG4403 | 148 | 76 | NR | 111 | 80 | NR | PTIVRR |
| 4 | S07-11606 | 218 | 61 | NR | 30 | 22 | R | PTIVRR |
| 5 | S08-2014 | 158 | 81 | NR | 260 | 66 | NR | PTIVRR |
| 6 | S08-4714 | 108 | 55 | LR | 82 | 59 | LR | PTIVRR |
| 7 | S08-4715 | 197 | 101 | NR | 86 | 62 | NR | PTIVRR |
| 8 | S08-4719 | 145 | 75 | NR | 119 | 86 | NR | PTIVRR |
| 9 | S08-5932 | 6 | 3 | HR | 80 | 58 | LR | PTIVRR |
| 10 | S08-8301 | 228 | 64 | NR | 90 | 65 | NR | PTIVRR |
| 11 | S08-8467 | 91 | 47 | LR | 197 | 50 | LR | PTIVRR |

2010 Soybean Phytophthora Rps Gene Evaluations

Contact: A. Dorrance dorrance.1@osu.edu

UNIFORM TEST II, 2010

| Entry # | Strain | R1 | R3 | R4 | R7 | R25 | NWB SL6 Zielke 3B-2 | | Gene |
|---------|---------------|-------|-------|-------|-------|-------|---------------------|-------|--------|
| | | | | | | | 1k+3a | 1c+3a | |
| 1 | IA 2094 (II) | 17\17 | 19\19 | 17\17 | 15\15 | 17\17 | | | none |
| 2 | IA 1022 (SCN) | 12\15 | 15\18 | 12\20 | 16\20 | 14\14 | | | none |
| 3 | IA 3024 | 0\17 | 3\18 | 0\15 | 3\15 | 17\17 | | | 1k |
| 4 | IA 2101 | 15\18 | 11\17 | 13\18 | 12\18 | 19\19 | | | none |
| 5 | A07-626002 | 17\20 | 16\19 | 13\19 | 13\16 | 19\19 | | | none |
| 6 | A08-248020 | 16\16 | 11\12 | 11\17 | 11\13 | 16\16 | | | none |
| 7 | A08-248043 | 12\13 | 8\10 | 11\15 | 8\11 | 13\14 | | | none |
| 8 | AR07-276022 | 0\18 | 4\18 | 0\9 | 10\15 | 17\17 | 10\10 | 6\9 | seg 1k |
| 9 | AR08-186020 | 0\15 | 18\18 | 14\19 | 15\15 | 17\18 | | | 1a |
| 10 | AR08-286003 | 0\19 | 19\20 | 16\17 | 17\17 | 19\19 | | | 1a |
| 11 | E07048 | 0\16 | 2\16 | 0\19 | 5\18 | 16\16 | | | 1k |
| 12 | E07087 | 12\18 | 16\16 | 11\19 | 16\16 | 18\18 | | | none |
| 13 | LD05-1540 | 0\15 | 3\15 | 5\19 | 0\15 | 14\14 | | | 1k |
| 14 | MLG03-4069017 | 0\17 | 0\16 | 13\16 | 2\18 | 18\18 | | | 1c |
| 15 | U06-100136 | 0\9 | 0\11 | 0\14 | 9\9 | 4\11 | 0\7 | 1\5 | 5 ? |
| 16 | U06-103421 | 1\16 | 2\14 | 0\14 | 0\16 | 13\15 | | | 1k |

| Controls | | R1 | R3 | R4 | R7 | R25 | NWB SL6 Zielke 3B-2 | |
|-------------------|----|---------|---------|---------|---------|---------|---------------------|---------|
| | | | | | | | 1k+3a | 1c+3a |
| none | 1 | 6\6 | 7\7 | 8\8 | 7\7 | 7\7 | 6\6 | 5\6 |
| 1a | 2 | 0\8 | 6\8 | 9\9 | 7\7 | 10\10 | 7\7 | 2\9 |
| 1b | 3 | 2\8 | 0\8 | 0\10 | 0\7 | 7\7 | 8\8 | 6\10 |
| 1c | 4 | 0\8 | 0\7 | 7\7 | 0\7 | 8\8 | 1\7 | 5\6 |
| 1d | 5 | 1\8 | 1\8 | 0\9 | 0\6 | 5\8 | 0\8 | 0\8 |
| 1k | 6 | 0\9 | 0\8 | 0\10 | 0\6 | 6\6 | 5\7 | 4\6 |
| 2 | 7 | 2\8 | 2\9 | 0\10 | 7\7 | 2\7 | 5\8 | 4\9 |
| 3a | 8 | 0\6 | 0\8 | 0\10 | 8\8 | 0\8 | 2\10 | 7\9 |
| 3b | 9 | 1\8 | 0\10 | 0\8 | 0\9 | 1\8 | 0\10 | 2\8 |
| 3c | 10 | 1\9 | 2\10 | 1\10 | 10\10 | 1\8 | 8\8 | 2\6 |
| 4 | 11 | 0\7 | 0\8 | 0\7 | 7\7 | 0\7 | 5\5 | 0\6 |
| 5 | 12 | 0\8 | 1\8 | 0\10 | 7\7 | 1\8 | 1\7 | 1\9 |
| 6 | 13 | 0\8 | 0\10 | 0\9 | 10\10 | 0\10 | 8\8 | 7\8 |
| 7 | 14 | 10\10 | 8\8 | 8\10 | 6\6 | 10\10 | 9\9 | 4\8 |
| 8 | 15 | 0\8 | 0\8 | 0\8 | 2\9 | 0\8 | 2\6 | 4\7 |
| Set up | | 7/7/10 | 7/8/10 | 7/13/10 | 7/14/10 | 7/20/10 | 8/25/10 | 8/25/10 |
| Inoculated | | 7/13/10 | 7/14/10 | 7/20/10 | 7/21/10 | 7/26/10 | 8/31/10 | 8/31/10 |
| Data | | 7/19/10 | 7/21/10 | 7/26/10 | 7/27/10 | 8/2/10 | 9/7/10 | 9/7/10 |

PRELIMINARY TEST IIA, 2010

| Entry # | Strain | NWB SL6 Zielke 3B-2 | | | | | | | Gene |
|---------|---------------|---------------------|-------|-------|-------|-------|-------|---------|--------|
| | | R1 | R3 | R4 | R7 | R25 | 1k+6 | 1c,1k,6 | |
| 1 | IA 2094 (II) | 17\19 | 14\16 | 2\17 | 16\17 | 20\20 | | | none |
| 2 | IA 1022 (SCN) | 9\18 | 17\17 | 1\19 | 15\18 | 17\17 | | | none |
| 3 | IA 3024 | 0\16 | 4\13 | 0\17 | 1\11 | 16\16 | | | 1k |
| 4 | AR07-176114 | 0\17 | 10\18 | 1\19 | 4\19 | 19\19 | 13\17 | 7\18 | 1k |
| 5 | AR08-286004 | 0\19 | 15\16 | 15\18 | 16\18 | 18\18 | | | 1a |
| 6 | AR08-286037 | 0\12 | 0\14 | 1\14 | 1\14 | 5\8 | | | 1k |
| 7 | AR09-192013 | 19\19 | 18\20 | 13\18 | 16\17 | 18\18 | | | none |
| 8 | AR09-192015 | 18\18 | 15\16 | 14\17 | 19\19 | 18\18 | | | none |
| 9 | AR09-192019 | 0\19 | 15\16 | 9\20 | 14\15 | 19\19 | | | 1a |
| 10 | AR09-292001 | 0\20 | 3\18 | 0\19 | 1\19 | 16\16 | | | 1k |
| 11 | AR09-292028 | 0\19 | 3\11 | 0\18 | 0\12 | 19\19 | | | 1k |
| 12 | AR09-292048 | 14\15 | 16\18 | 2\14 | 16\16 | 13\13 | | | none |
| 13 | AR09-292054 | 19\19 | 12\14 | 7\19 | 9\12 | 17\18 | | | none |
| 14 | AR09-292056 | 0\12 | 4\17 | 3\15 | 0\15 | 12\13 | | | 1k |
| 15 | AR09-292092 | 15\16 | 8\14 | 9\17 | 14\14 | 19\19 | | | none |
| 16 | E08052 | 19\19 | 16\18 | 18\18 | 19\19 | 20\20 | | | none |
| 17 | E08058 | 16\16 | 17\18 | 7\19 | 10\13 | 16\16 | | | none |
| 18 | E08130 | 0\19 | 1\18 | 12\16 | 1\19 | 18\18 | | | 1c |
| 19 | E08135 | 0\16 | 1\12 | 11\16 | 0\18 | 19\19 | | | 1c |
| 20 | E08142 | 0\16 | 2\19 | 14\16 | 0\17 | 19\19 | | | 1c |
| 21 | E08200 | 0\19 | 2\14 | 11\15 | 2\18 | 15\15 | | | 1c |
| 22 | E08206 | 2\16 | 7\14 | 5\16 | 2\9 | 19\19 | | | 1k-seg |
| 23 | E08210 | 0\17 | 5\15 | 1\18 | 2\14 | 19\19 | | | 1k |
| 24 | E08235 | 0\18 | 6\19 | 0\15 | 3\16 | 15\15 | | | 1k |
| 25 | E08239 | 0\15 | 4\15 | 17\17 | 0\15 | 17\17 | | | 1c |
| 26 | E08242 | 1\16 | 3\13 | 18\18 | 0\18 | 17\17 | | | 1c |
| 27 | HS7W-29 | 0\19 | 9\17 | 0\20 | 7\17 | 18\18 | 17\18 | 19\19 | 1k |
| 28 | HS7W-82 | 0\16 | 0\20 | 9\19 | 0\18 | 19\19 | | | 1k-seg |
| 29 | HS7W-194 | 1\14 | 0\15 | 0\16 | 0\11 | 11\17 | | | 1k |
| 30 | HS8W-8 | 0\17 | 1\16 | 0\18 | 1\17 | 9\20 | | | 1k |
| 31 | HS8W-83 | 0\19 | 9\19 | 8\19 | 7\18 | 19\19 | | | 1a |

| | | NWB SL6 Zielke 3B-2 | | | | | | |
|------|----------|---------------------|------|------|-------|-------|------|----------|
| | Controls | R1 | R3 | R4 | R7 | R25 | 1k+6 | 1c,1k+3a |
| none | 1 | 6\6 | 7\7 | 8\8 | 7\7 | 7\7 | 6\6 | 5\6 |
| 1a | 2 | 0\8 | 6\8 | 9\9 | 7\7 | 10\10 | 7\7 | 2\9 |
| 1b | 3 | 2\8 | 0\8 | 0\10 | 0\7 | 7\7 | 8\8 | 6\10 |
| 1c | 4 | 0\8 | 0\7 | 7\7 | 0\7 | 8\8 | 1\7 | 5\6 |
| 1d | 5 | 1\8 | 1\8 | 0\9 | 0\6 | 5\8 | 0\8 | 0\8 |
| 1k | 6 | 0\9 | 0\8 | 0\10 | 0\6 | 6\6 | 5\7 | 4\6 |
| 2 | 7 | 2\8 | 2\9 | 0\10 | 7\7 | 2\7 | 5\8 | 4\9 |
| 3a | 8 | 0\6 | 0\8 | 0\10 | 8\8 | 0\8 | 2\10 | 7\9 |
| 3b | 9 | 1\8 | 0\10 | 0\8 | 0\9 | 1\8 | 0\10 | 2\8 |
| 3c | 10 | 1\9 | 2\10 | 1\10 | 10\10 | 1\8 | 8\8 | 2\6 |
| 4 | 11 | 0\7 | 0\8 | 0\7 | 7\7 | 0\7 | 5\5 | 0\6 |
| 5 | 12 | 0\8 | 1\8 | 0\10 | 7\7 | 1\8 | 1\7 | 1\9 |
| 6 | 13 | 0\8 | 0\10 | 0\9 | 10\10 | 0\10 | 8\8 | 7\8 |
| 7 | 14 | 10\10 | 8\8 | 8\10 | 6\6 | 10\10 | 9\9 | 4\8 |
| 8 | 15 | 0\8 | 0\8 | 0\8 | 2\9 | 0\8 | 2\6 | 4\7 |

| | | | | | | | |
|-------------------|---------|---------|---------|---------|---------|---------|---------|
| Set up | 7/7/10 | 7/8/10 | 7/13/10 | 7/14/10 | 7/20/10 | 8/25/10 | 8/25/10 |
| Inoculated | 7/13/10 | 7/14/10 | 7/20/10 | 7/21/10 | 7/26/10 | 8/31/10 | 8/31/10 |
| Data | 7/19/10 | 7/21/10 | 7/26/10 | 7/27/10 | 8/2/10 | 9/7/10 | 9/7/10 |

PRELIMINARY TEST IIB, 2010

| Entry # | Strain | NWB SL6 Zielke 3B-2 S1Res3-1 | | | | | | | | Gene |
|---------|---------------|------------------------------|-------|-------|-------|-------|-------|-------|--------|-------------|
| | | R1 | R3 | R4 | R7 | R25 | 1k+3a | 1c+3a | 8 only | |
| 1 | IA 2094 (II) | 19\19 | 19\19 | 16\17 | 20\20 | 18\18 | | | | none |
| 2 | IA 1022 (SCN) | 17\17 | 13\18 | 16\16 | 6\18 | 15\16 | | | | 1k |
| 3 | IA 3024 | 0\16 | 6\16 | 6\15 | 0\20 | 18\18 | | | | none |
| 4 | LG07-6843 | 15\15 | 18\18 | 17\18 | 14\17 | 16\18 | | | | none |
| 5 | LG07-6848 | 19\19 | 16\16 | 19\19 | 9\18 | 20\20 | | | | 1a |
| 6 | LG07-6950 | 0\17 | 16\16 | 19\19 | 17\19 | 19\19 | | | | 1a |
| 7 | LG07-6953 | 0\16 | 16\20 | 13\15 | 17\19 | 15\16 | | | | none |
| 8 | LG08-3838 | 17\17 | 17\18 | 18\18 | 19\19 | 16\16 | | | | none |
| 9 | SD07CV-367 | 1\18 | 16\18 | 17\18 | 17\19 | 19\20 | | | | 1a |
| 10 | SD07CV-603 | 1\17 | 3\20 | 0\19 | 0\20 | 20\20 | | | | 1k |
| 11 | SD07CV-631 | 19\19 | 18\20 | 5\17 | 12\15 | 19\19 | | | | none |
| 12 | SD07CV-770 | 18\19 | 19\19 | 11\17 | 14\20 | 18\18 | | | | none |
| 13 | SD07CV-800 | 15\15 | 18\18 | 20\20 | 17\17 | 19\19 | | | | none |
| 14 | SD07CV-874 | 15\15 | 18\18 | 18\19 | 16\18 | 20\20 | | | | none |
| 15 | SD07CV-878 | 18\18 | 19\19 | 19\19 | 18\19 | 19\19 | | | | none |
| 16 | SD07CV-886 | 0\20 | 16\19 | 8\15 | 15\17 | 20\20 | | | | 1a |
| 17 | U07-200135 | 10\17 | 18\18 | 18\18 | 8\18 | 19\19 | | | | none |
| 18 | U07-200179 | 0\18 | 4\17 | 8\15 | 1\19 | 16\16 | | | | 1k-seg |
| 19 | U07-200211 | 0\16 | 7\15 | 4\16 | 0\18 | 15\16 | | | | 1k-seg |
| 20 | U07-200215 | 0\15 | 0\16 | 6\17 | 0\17 | 14\17 | | | | 1k |
| 21 | U07-200239 | 0\16 | 0\18 | 13\17 | 0\19 | 14\18 | | | | 1c |
| 22 | U07-226071 | 1\16 | 4\17 | 14\19 | 8\15 | 10\16 | | | | 1a-seg |
| 23 | U07-227102 | 0\18 | 13\16 | 16\17 | 13\18 | 17\17 | | | | 1a |
| 24 | U07-230086 | 2\18 | 0\16 | 16\18 | 2\15 | 12\15 | | | | 1c |
| 25 | U07-336226 | 0\20 | 16\19 | 11\19 | 11\17 | 16\16 | | | | 1a |
| 26 | U07-342232 | 0\15 | 0\11 | 5\15 | 2\17 | 4\12 | 0\12 | 1\13 | 8\17 | seg-2 genes |
| 27 | U07-348232 | 15\16 | 19\19 | 16\18 | 17\17 | 17\17 | | | | none |
| 28 | U07-402918 | 0\17 | 14\17 | 13\14 | 9\16 | 14\15 | | | | 1a |
| 29 | U07-420241 | 0\19 | 16\20 | 12\18 | 9\14 | 18\18 | | | | 1a |
| 30 | U08-831004 | 0\17 | 0\13 | 7\16 | 0\19 | 20\20 | | | | 1c seg |

| | | NWB SL6 Zielke 3B-2 S1Res3-1 | | | | | | | |
|------|-------------------|------------------------------|---------|---------|---------|---------|---------|---------|---------|
| | Controls | R1 | R3 | R4 | R7 | R25 | 1k+3a | 1c+3a | 8 only |
| rrps | 1 | 8\8 | 7\8 | 10\10 | 8\8 | 8\8 | 6\6 | 5\6 | 5\7 |
| 1a | 2 | 8\9 | 5\7 | 7\8 | 7\8 | 10\10 | 7\7 | 2\9 | 0\7 |
| 1b | 3 | 2\9 | 1\9 | 2\10 | 0\10 | 10\10 | 8\8 | 6\10 | 2\8 |
| 1c | 4 | 0\9 | 2\10 | 10\10 | 0\8 | 9\9 | 1\7 | 5\6 | 7\9 |
| 1d | 5 | 1\9 | 1\8 | 1\9 | 2\10 | 6\10 | 0\8 | 0\8 | 0\8 |
| 1k | 6 | 0\8 | 0\9 | 0\9 | 0\10 | 8\8 | 5\7 | 4\6 | 1\9 |
| 2 | 7 | 1\7 | 1\9 | 1\9 | 8\8 | 3\9 | 5\8 | 4\9 | 2\10 |
| 3a | 8 | 0\8 | 0\7 | 1\10 | 10\10 | 3\10 | 2\10 | 7\9 | 4\5 |
| 3b | 9 | 0\10 | 0\8 | 0\10 | 0\10 | 1\10 | 0\10 | 2\8 | 2\9 |
| 3c | 10 | 1\10 | 1\9 | 0\10 | 9\10 | 2\10 | 8\8 | 2\6 | 3\8 |
| 4 | 11 | 0\7 | 0\8 | 0\6 | 5\5 | 0\6 | 5\5 | 0\6 | 0\4 |
| 5 | 12 | 0\9 | 0\7 | 0\10 | 8\8 | 0\10 | 1\7 | 1\9 | 2\8 |
| 6 | 13 | 0\9 | 0\10 | 0\10 | 7\9 | 0\9 | 8\8 | 7\8 | 4\9 |
| 7 | 14 | 8\8 | 6\8 | 7\8 | 7\8 | 6\6 | 9\9 | 4\8 | 2\6 |
| 8 | 15 | 0\6 | 0\7 | 0\10 | 0\9 | 0\8 | 2\6 | 4\7 | 5\7 |
| | Set up | 7/21/10 | 7/22/10 | 7/26/10 | 7/27/10 | 8/4/10 | 8/25/10 | 8/25/10 | 8/25/10 |
| | Inoculated | 7/27/10 | 7/29/10 | 8/2/10 | 8/3/10 | 8/11/10 | 8/31/10 | 8/31/10 | 8/31/10 |
| | Data | 8/2/10 | 8/5/10 | 8/9/10 | 8/10/10 | 8/17/10 | 9/7/10 | 9/7/10 | 9/7/10 |

UNIFORM TEST III, 2010

| Entry # | Strain | R1 | R3 | R4 | R7 | R25 | Gene |
|----------------|---------------|-----------|-----------|-----------|-----------|------------|-------------|
| 1 | IA 3023 (III) | 15\15 | 14\16 | 12\17 | 15\15 | 18\18 | none |
| 2 | IA 3024 | 13\15 | 3\13 | 0\19 | 0\17 | 16\16 | none |
| 3 | IA 3048 (SCN) | 8\15 | 8\14 | 14\20 | 14\15 | 16\16 | none |
| 4 | IA 4004 | 4\18 | 18\19 | 16\20 | 18\18 | 20\20 | 1a |
| 5 | IA 4005 | 9\15 | 9\19 | 10\20 | 13\16 | 15\15 | none |
| 6 | A07-626010 | 6\17 | 12\16 | 4\17 | 18\18 | 20\20 | none |
| 7 | A08-248015 | 2\11 | 9\17 | 5\19 | 9\15 | 17\17 | 1a |
| 8 | A08-248031 | 8\13 | 13\15 | 8\13 | 15\16 | 17\17 | none |
| 9 | A08-249012 | 3\11 | 0\13 | 3\14 | 2\10 | 9\12 | 1k |
| 10 | A08-350016 | 10\13 | 14\16 | 11\16 | 6\16 | 20\20 | none |
| 11 | A08-350020 | 12\16 | 10\11 | 13\18 | 8\14 | 15\15 | none |
| 12 | A08-350036 | 0\14 | 8\13 | 4\16 | 7\10 | 11\13 | 1a |
| 13 | A08-350042 | 0\19 | 0\18 | 1\19 | 2\15 | 16\16 | 1k |
| 14 | A08-350049 | 11\14 | 9\19 | 4\14 | 7\15 | 13\15 | none |
| 15 | AR06-264020 | 16\17 | 4\18 | 12\19 | 14\16 | 17\17 | none |
| 16 | AR07-376041 | 0\18 | 7\16 | 0\16 | 0\17 | 15\15 | 1k |
| 17 | LG06-2340 | 17\17 | 18\18 | 14\18 | 14\16 | 20\20 | none |
| 18 | LG06-2354 | 13\14 | 17\17 | 13\17 | 17\17 | 18\18 | none |
| 19 | LG06-2866 | 1\15 | 7\18 | 17\19 | 18\18 | 18\18 | 1a |
| 20 | LG06-6094 | 18\19 | 15\17 | 14\16 | 17\17 | 16\16 | none |
| 21 | K07-1544 | 20\20 | 18\18 | 20\20 | 19\19 | 17\17 | none |
| 22 | U05-226055 | 16\16 | 18\18 | 15\15 | 15\15 | 13\13 | none |
| 23 | U06-100052 | 10\14 | 18\20 | 13\17 | 15\15 | 15\19 | none |
| 24 | U06-206737 | 9\17 | 6\18 | 12\20 | 18\18 | 16\16 | none |

| Controls | | R1 | R3 | R4 | R7 | R25 |
|-------------------|----|-----------|-----------|-----------|-----------|------------|
| none | 1 | 6\6 | 7\7 | 8\8 | 7\7 | 7\7 |
| 1a | 2 | 0\8 | 6\8 | 9\9 | 7\7 | 10\10 |
| 1b | 3 | 2\8 | 0\8 | 0\10 | 0\7 | 7\7 |
| 1c | 4 | 0\8 | 0\7 | 7\7 | 0\7 | 8\8 |
| 1d | 5 | 1\8 | 1\8 | 0\9 | 0\6 | 5\8 |
| 1k | 6 | 0\9 | 0\8 | 0\10 | 0\6 | 6\6 |
| 2 | 7 | 2\8 | 2\9 | 0\10 | 7\7 | 2\7 |
| 3a | 8 | 0\6 | 0\8 | 0\10 | 8\8 | 0\8 |
| 3b | 9 | 1\8 | 0\10 | 0\8 | 0\9 | 1\8 |
| 3c | 10 | 1\9 | 2\10 | 1\10 | 10\10 | 1\8 |
| 4 | 11 | 0\7 | 0\8 | 0\7 | 7\7 | 0\7 |
| 5 | 12 | 0\8 | 1\8 | 0\10 | 7\7 | 1\8 |
| 6 | 13 | 0\8 | 0\10 | 0\9 | 10\10 | 0\10 |
| 7 | 14 | 10\10 | 8\8 | 8\10 | 6\6 | 10\10 |
| 8 | 15 | 0\8 | 0\8 | 0\8 | 2\9 | 0\8 |
| Set up | | 7/7/10 | 7/8/10 | 7/13/10 | 7/14/10 | 7/20/10 |
| Inoculated | | 7/13/10 | 7/14/10 | 7/20/10 | 7/21/10 | 7/26/10 |
| Data | | 7/19/10 | 7/21/10 | 7/26/10 | 7/27/10 | 8/2/10 |

PRELIMINARY TEST IIIA, 2010

| Entry # | Strain | NWB SL6 | | | | | Zielke 3B-2 S1Res3-1 | | | Gene |
|---------|---------------|---------|-------|-------|-------|-------|----------------------|-------|-----------|-----------------|
| | | R1 | R3 | R4 | R7 | R25 | 1k+6 | 1c+3a | 1c,3a,6,8 | |
| 1 | IA 3023 (III) | 16\16 | 16\19 | 13\20 | 19\20 | 18\18 | | | | none |
| 2 | IA 3024 | 1\17 | 4\19 | 0\16 | 1\17 | 17\17 | | | | 1k |
| 3 | IA 3048 (SCN) | 9\15 | 12\13 | 16\17 | 6\18 | 18\18 | | | | none |
| 4 | IA 4004 | 2\17 | 18\18 | 10\18 | 19\20 | 20\20 | | | | 1a |
| 5 | AR08-386026 | 19\19 | 20\20 | 12\20 | 16\19 | 19\19 | | | | none |
| 6 | AR09-292017 | 16\18 | 17\17 | 13\18 | 16\16 | 19\19 | | | | none |
| 7 | AR09-292085 | 16\17 | 13\18 | 0\16 | 6\17 | 16\16 | | | | none |
| 8 | AR09-292097 | 8\19 | 14\17 | 12\16 | 10\17 | 16\16 | | | | none |
| 9 | AR09-392007 | 20\20 | 19\19 | 16\19 | 13\17 | 18\18 | | | | none |
| 10 | AR09-392011 | 9\16 | 5\18 | 6\19 | 7\17 | 14\16 | | | | 1k |
| 11 | AR09-392023 | 3\20 | 10\18 | 2\20 | 12\19 | 3\17 | | | | ?? |
| 12 | AR09-392040 | 0\19 | 15\18 | 19\20 | 15\18 | 19\19 | | | | 1a |
| 13 | AR09-392042 | 13\18 | 19\19 | 15\15 | 20\20 | 19\19 | | | | none |
| 14 | AR09-392050 | 20\20 | 20\20 | 20\20 | 15\19 | 18\18 | | | | none |
| 15 | AR09-392055 | 6\19 | 19\19 | 17\18 | 20\20 | 19\19 | | | | none |
| 16 | HS6-3967 | 1\18 | 16\16 | 0\17 | 1\17 | 8\15 | 1\15 | 11\14 | 11\16 | 1c,3a or 6 |
| 17 | HS7-4314 | 2\18 | 0\17 | 5\16 | 0\18 | 3\18 | 5\13 | 11\18 | 6\16 | 1c + ? |
| 18 | HS8-3317 | 0\18 | 3\19 | 0\15 | 1\19 | 2\19 | 17\17 | 15\20 | 14\19 | 6 + ? |
| 19 | HS8-3582 | 0\20 | 0\20 | 0\18 | 0\18 | 0\20 | 13\15 | 18\19 | 13\17 | 6 + ? |
| 20 | HS7W-190 | 0\12 | 0\12 | 0\13 | 0\16 | 0\15 | 15\15 | 14\16 | 8\12 | 6 + ? |
| 21 | HS8W-177 | 0\15 | 2\14 | 1\18 | 0\15 | 3\19 | 17\17 | 15\15 | 14\18 | 6 + ? |
| 22 | SS04-2262 | 0\16 | 18\18 | 13\16 | 5\16 | 18\18 | | | | 1a |
| 23 | SS05-5646 | 0\17 | 0\23 | 16\17 | 0\18 | 15\15 | | | | 1k |
| 24 | SS05-5655 | 0\15 | 0\18 | 17\17 | 0\19 | 16\17 | | | | 1c |
| 25 | SS06-6869 | 3\19 | 0\20 | 4\19 | 3\19 | 7\19 | 2\11 | 18\18 | 18\18 | 1c,1k + 3a or 6 |

| | | NWB SL6 | | | | | Zielke 3B-2 S1Res3-1 | | |
|------|-------------------|---------|---------|---------|---------|---------|----------------------|---------|-----------|
| | Controls | R1 | R3 | R4 | R7 | R25 | 1k+6 | 1c+3a | 1c,3a,6,8 |
| none | 1 | 8\8 | 7\8 | 10\10 | 8\8 | 8\8 | 6\6 | 5\6 | 5\7 |
| 1a | 2 | 8\9 | 5\7 | 7\8 | 7\8 | 10\10 | 7\7 | 2\9 | 0\7 |
| 1b | 3 | 2\9 | 1\9 | 2\10 | 0\10 | 10\10 | 8\8 | 6\10 | 2\8 |
| 1c | 4 | 0\9 | 2\10 | 10\10 | 0\8 | 9\9 | 1\7 | 5\6 | 7\9 |
| 1d | 5 | 1\9 | 1\8 | 1\9 | 2\10 | 6\10 | 0\8 | 0\8 | 0\8 |
| 1k | 6 | 0\8 | 0\9 | 0\9 | 0\10 | 8\8 | 5\7 | 4\6 | 1\9 |
| 2 | 7 | 1\7 | 1\9 | 1\9 | 8\8 | 3\9 | 5\8 | 4\9 | 2\10 |
| 3a | 8 | 0\8 | 0\7 | 1\10 | 10\10 | 3\10 | 2\10 | 7\9 | 4\5 |
| 3b | 9 | 0\10 | 0\8 | 0\10 | 0\10 | 1\10 | 0\10 | 2\8 | 2\9 |
| 3c | 10 | 1\10 | 1\9 | 0\10 | 9\10 | 2\10 | 8\8 | 2\6 | 3\8 |
| 4 | 11 | 0\7 | 0\8 | 0\6 | 5\5 | 0\6 | 5\5 | 0\6 | 0\4 |
| 5 | 12 | 0\9 | 0\7 | 0\10 | 8\8 | 0\10 | 1\7 | 1\9 | 2\8 |
| 6 | 13 | 0\9 | 0\10 | 0\10 | 7\9 | 0\9 | 8\8 | 7\8 | 4\9 |
| 7 | 14 | 8\8 | 6\8 | 7\8 | 7\8 | 6\6 | 9\9 | 4\8 | 2\6 |
| 8 | 15 | 0\6 | 0\7 | 0\10 | 0\9 | 0\8 | 2\6 | 4\7 | 5\7 |
| | Set up | 7/21/10 | 7/22/10 | 7/26/10 | 7/27/10 | 8/4/10 | 8/25/10 | 8/25/10 | 8/25/10 |
| | Inoculated | 7/27/10 | 7/29/10 | 8/2/10 | 8/3/10 | 8/11/10 | 8/31/10 | 8/31/10 | 8/31/10 |
| | Data | 8/2/10 | 8/5/10 | 8/9/10 | 8/10/10 | 8/17/10 | 9/7/10 | 9/7/10 | 9/7/10 |

PRELIMINARY TEST IIIB, 2010

| Entry # | Strain | R1 | R3 | R4 | R7 | R25 | NWB SL6 | Zielke 3B-2 | Gene |
|---------|---------------|-------|-------|-------|-------|-------|---------|-------------|---------|
| | | | | | | | 1c,1k+6 | 1c,1k+3a,6 | |
| 1 | IA 3023 (III) | 18\19 | 17\17 | 10\18 | 16\20 | 19\19 | | | none |
| 2 | IA 3024 | 0\15 | 3\18 | 0\18 | 0\17 | 18\18 | | | 1k |
| 3 | IA 3048 (SCN) | 5\15 | 5\17 | 14\17 | 9\17 | 19\19 | | | none |
| 4 | IA 4004 | 0\16 | 14\19 | 18\19 | 15\15 | 18\18 | | | 1a |
| 5 | LG06-2219 | 0\20 | 5\18 | 2\19 | 3\18 | 16\16 | | | 1k |
| 6 | LG06-2284 | 0\18 | 17\18 | 10\17 | 16\18 | 17\18 | | | 1a |
| 7 | LG07-2309 | 17\17 | 12\15 | 9\20 | 13\19 | 15\15 | | | none |
| 8 | LG07-8914 | 17\20 | 4\16 | 15\18 | 9\15 | 16\16 | | | none |
| 9 | LG08-3007 | 0\18 | 0\20 | 11\20 | 0\19 | 19\19 | | | 1c |
| 10 | LG08-3009 | 2\17 | 5\19 | 8\19 | 2\17 | 20\20 | | | 1k-seg |
| 11 | K08-6247 | 0\20 | 9\18 | 0\19 | 0\17 | 18\18 | 15\16 | 0\14 | 1k |
| 12 | U07-200233 | 2\12 | 11\16 | 6\19 | 7\17 | 13\17 | 11\14 | 8\14 | 1k |
| 13 | U07-200268 | 16\16 | 11\15 | 4\13 | 18\18 | 15\15 | | | none |
| 14 | U07-200271 | 0\17 | 0\11 | 5\14 | 0\13 | 15\15 | | | 1k |
| 15 | U07-200311 | 0\16 | 0\16 | 0\19 | 13\17 | 0\18 | 0\14 | 13\15 | 3a or 6 |
| 16 | U07-200317 | 0\15 | 2\14 | 16\16 | 2\16 | 10\14 | | | |
| 17 | U07-200364 | 0\17 | 0\16 | 1\17 | 13\18 | 3\20 | 2\13 | 14\15 | 3a or 6 |
| 18 | U07-224096 | 0\16 | 1\13 | 3\16 | 1\15 | 18\18 | | | 1k |
| 19 | U07-317222 | 6\17 | 10\18 | 13\20 | 8\20 | 19\19 | | | 1a |
| 20 | U07-321229 | 0\17 | 1\18 | 1\15 | 0\15 | 15\15 | | | 1k |
| 21 | U07-326227 | 12\13 | 11\16 | 4\16 | 9\15 | 20\20 | | | none |
| 22 | U07-331228 | 0\15 | 2\20 | 1\18 | 2\20 | 17\17 | | | 1k |
| 23 | U07-332222 | 0\16 | 11\18 | 8\15 | 13\14 | 13\16 | | | 1a |
| 24 | U07-335229 | 0\16 | 1\17 | 11\18 | 1\17 | 14\14 | | | 1c |
| 25 | U07-403002 | 1\18 | 0\15 | 0\13 | 1\15 | 9\12 | | | 1k |
| 26 | U08-828035 | 0\12 | 2\16 | 1\15 | 4\16 | 16\17 | | | 1k |

| | | R1 | R3 | R4 | R7 | R25 | NWB SL6 | Zielke 3B-2 |
|-------------------|----|---------|---------|---------|---------|---------|---------|-------------|
| Controls | | | | | | | 1c,1k+6 | 1c,,1k+3a,6 |
| none | 1 | 8\8 | 7\8 | 10\10 | 8\8 | 8\8 | 6\6 | 5\6 |
| 1a | 2 | 8\9 | 5\7 | 7\8 | 7\8 | 10\10 | 7\7 | 2\9 |
| 1b | 3 | 2\9 | 1\9 | 2\10 | 0\10 | 10\10 | 8\8 | 6\10 |
| 1c | 4 | 0\9 | 2\10 | 10\10 | 0\8 | 9\9 | 1\7 | 5\6 |
| 1d | 5 | 1\9 | 1\8 | 1\9 | 2\10 | 6\10 | 0\8 | 0\8 |
| 1k | 6 | 0\8 | 0\9 | 0\9 | 0\10 | 8\8 | 5\7 | 4\6 |
| 2 | 7 | 1\7 | 1\9 | 1\9 | 8\8 | 3\9 | 5\8 | 4\9 |
| 3a | 8 | 0\8 | 0\7 | 1\10 | 10\10 | 3\10 | 2\10 | 7\9 |
| 3b | 9 | 0\10 | 0\8 | 0\10 | 0\10 | 1\10 | 0\10 | 2\8 |
| 3c | 10 | 1\10 | 1\9 | 0\10 | 9\10 | 2\10 | 8\8 | 2\6 |
| 4 | 11 | 0\7 | 0\8 | 0\6 | 5\5 | 0\6 | 5\5 | 0\6 |
| 5 | 12 | 0\9 | 0\7 | 0\10 | 8\8 | 0\10 | 1\7 | 1\9 |
| 6 | 13 | 0\9 | 0\10 | 0\10 | 7\9 | 0\9 | 8\8 | 7\8 |
| 7 | 14 | 8\8 | 6\8 | 7\8 | 7\8 | 6\6 | 9\9 | 4\8 |
| 8 | 15 | 0\6 | 0\7 | 0\10 | 0\9 | 0\8 | 2\6 | 4\7 |
| Set up | | 7/21/10 | 7/22/10 | 7/26/10 | 7/27/10 | 8/4/10 | 8/25/10 | 8/25/10 |
| Inoculated | | 7/27/10 | 7/29/10 | 8/2/10 | 8/3/10 | 8/11/10 | 8/31/10 | 8/31/10 |
| Data | | 8/2/10 | 8/5/10 | 8/9/10 | 8/10/10 | 8/17/10 | 9/7/10 | 9/7/10 |

UNIFORM TEST II Roundup-Ready, 2010

| Entry # | Strain | R1 | R3 | R4 | R7 | R25 | gene |
|---------|------------------|-------|-------|-------|-------|-------|---------|
| 1 | AG2430 (II) | 0\12 | 0\14 | 0\14 | 0\17 | 0\17 | treated |
| 2 | AG2002 | 0\15 | 0\12 | 0\11 | 0\13 | 0\13 | treated |
| 3 | AG2606 | 0\15 | 0\17 | 0\19 | 0\17 | 0\19 | treated |
| 4 | NEX2905 A OR (L) | 12\14 | 15\17 | 14\14 | 11\18 | 19\19 | none |
| 5 | U05-816069R | 0\17 | 0\19 | 18\18 | 0\18 | 20\20 | 1c |
| 6 | U05-836005R | 1\18 | 0\20 | 18\18 | 0\18 | 18\18 | 1c |
| 7 | U06-813215R | 0\17 | 0\17 | 17\17 | 2\18 | 17\17 | 1c |
| 8 | U06-814223R | 0\19 | 12\19 | 11\20 | 2\19 | 17\17 | 1c seg |
| 9 | U07-135377R | 16\16 | 13\15 | 14\14 | 15\18 | 19\20 | none |
| 10 | U07-135478R | 0\19 | 1\19 | 3\19 | 3\17 | 18\18 | 1k |
| 11 | U07-135617R | 0\14 | 4\14 | 2\16 | 2\19 | 15\15 | 1k |
| 12 | U07-135636R | 0\16 | 5\17 | 0\20 | 0\17 | 18\18 | 1k |
| 13 | U07-236940R | 2\15 | 2\17 | 2\17 | 0\14 | 17\17 | 1k |
| 14 | U07-236993R | 0\14 | 0\16 | 10\18 | 1\18 | 17\17 | 1c |
| 15 | U07-338327R | 0\17 | 1\17 | 6\18 | 0\16 | 15\16 | 1k |

| Controls | | R1 | R3 | R4 | R7 | R25 |
|----------|----|------|------|-------|-------|-------|
| none | 1 | 8\8 | 7\8 | 10\10 | 8\8 | 8\8 |
| 1a | 2 | 8\9 | 5\7 | 7\8 | 7\8 | 10\10 |
| 1b | 3 | 2\9 | 1\9 | 2\10 | 0\10 | 10\10 |
| 1c | 4 | 0\9 | 2\10 | 10\10 | 0\8 | 9\9 |
| 1d | 5 | 1\9 | 1\8 | 1\9 | 2\10 | 6\10 |
| 1k | 6 | 0\8 | 0\9 | 0\9 | 0\10 | 8\8 |
| 2 | 7 | 1\7 | 1\9 | 1\9 | 8\8 | 3\9 |
| 3a | 8 | 0\8 | 0\7 | 1\10 | 10\10 | 3\10 |
| 3b | 9 | 0\10 | 0\8 | 0\10 | 0\10 | 1\10 |
| 3c | 10 | 1\10 | 1\9 | 0\10 | 9\10 | 2\10 |
| 4 | 11 | 0\7 | 0\8 | 0\6 | 5\5 | 0\6 |
| 5 | 12 | 0\9 | 0\7 | 0\10 | 8\8 | 0\10 |
| 6 | 13 | 0\9 | 0\10 | 0\10 | 7\9 | 0\9 |
| 7 | 14 | 8\8 | 6\8 | 7\8 | 7\8 | 6\6 |
| 8 | 15 | 0\6 | 0\7 | 0\10 | 0\9 | 0\8 |

| | | | | | |
|-------------------|---------|---------|---------|---------|---------|
| Set up | 7/21/10 | 7/22/10 | 7/26/10 | 7/27/10 | 8/4/10 |
| Inoculated | 7/27/10 | 7/29/10 | 8/2/10 | 8/3/10 | 8/11/10 |
| Data | 8/2/10 | 8/5/10 | 8/9/10 | 8/10/10 | 8/17/10 |

seed was treated when it arrived

UNIFORM TEST III Roundup-Ready, 2010

| Entry # | Strain | R1 | R3 | R4 | R7 | R25 | Gene |
|----------------|------------------|-----------|-----------|-----------|-----------|------------|-------------|
| 1 | U03-827101 (SCN) | 1\17 | 0\16 | 8\15 | 9\18 | 17\17 | 1k |
| 2 | NEX2905A 0R (E) | 17\19 | 2\18 | 10\17 | 15\15 | 14\14 | none |
| 3 | AG3504 | 0\18 | 0\17 | 0\14 | 0\13 | 0\16 | fungicide |
| 4 | AG3803 | 0\14 | 0\17 | 0\14 | 0\15 | 0\13 | fungicide |
| 5 | K08-2043 RR | 3\13 | 7\13 | 2\15 | 4\16 | 17\17 | 1k |
| 6 | K08-2449 RR | 14\15 | 11\14 | 5\13 | 10\15 | 16\16 | none |
| 7 | K08-2452 RR | 14\16 | 9\14 | 6\18 | 8\10 | 14\14 | none |
| 8 | K08-2509 RR | 17\18 | 12\14 | 2\13 | 13\17 | 13\13 | none |
| 9 | K08-2528 RR | 9\15 | 13\15 | 6\15 | 12\15 | 14\14 | none |
| 10 | K08-2529 RR | 12\15 | 7\11 | 6\15 | 13\13 | 18\18 | none |
| 11 | K08-2545 RR | 10\12 | 11\11 | 1\18 | 3\9 | 14\14 | none |
| 12 | U05-826080R | 6\15 | 9\18 | 0\18 | 4\17 | 15\15 | 1k seg |
| 13 | U05-840045R | 0\1 | 1\2 | 0\3 | 0\1 | 5\5 | 1k |
| 14 | U07-236420R | 0\15 | 7\16 | 0\17 | 1\19 | 17\17 | 1k |
| 15 | U07-236566R | 0\11 | 0\6 | 0\9 | 0\2 | 6\10 | 1k |
| 16 | U07-237320R | 0\17 | 7\17 | 0\16 | 3\13 | 15\15 | 1k |
| 17 | U07-237991R | 0\15 | 0\15 | 4\15 | 1\13 | 9\18 | 1k |
| 18 | U07-438943R | 0\15 | 0\13 | 2\18 | 0\16 | 11\12 | 1k |
| 19 | U07-439076R | 5\16 | 0\19 | 7\19 | 0\16 | 19\19 | 1k |
| 20 | U07-439221R | 0\5 | 0\9 | 3\8 | 0\8 | 5\6 | 1k |
| 21 | U08-914024R | 0\5 | 0\2 | 1\4 | 0\1 | 3\3 | 1k |
| 22 | U08-926022R | 4\16 | 1\16 | 3\12 | 1\14 | 18\18 | 1k |

seed was treated when received

| | Controls | R1 | R3 | R4 | R7 | R25 |
|-------------------|-----------------|-----------|-----------|-----------|-----------|------------|
| none | 1 | 6\6 | 7\7 | 8\8 | 7\7 | 7\7 |
| 1a | 2 | 0\8 | 6\8 | 9\9 | 7\7 | 10\10 |
| 1b | 3 | 2\8 | 0\8 | 0\10 | 0\7 | 7\7 |
| 1c | 4 | 0\8 | 0\7 | 7\7 | 0\7 | 8\8 |
| 1d | 5 | 1\8 | 1\8 | 0\9 | 0\6 | 5\8 |
| 1k | 6 | 0\9 | 0\8 | 0\10 | 0\6 | 6\6 |
| 2 | 7 | 2\8 | 2\9 | 0\10 | 7\7 | 2\7 |
| 3a | 8 | 0\6 | 0\8 | 0\10 | 8\8 | 0\8 |
| 3b | 9 | 1\8 | 0\10 | 0\8 | 0\9 | 1\8 |
| 3c | 10 | 1\9 | 2\10 | 1\10 | 10\10 | 1\8 |
| 4 | 11 | 0\7 | 0\8 | 0\7 | 7\7 | 0\7 |
| 5 | 12 | 0\8 | 1\8 | 0\10 | 7\7 | 1\8 |
| 6 | 13 | 0\8 | 0\10 | 0\9 | 10\10 | 0\10 |
| 7 | 14 | 10\10 | 8\8 | 8\10 | 6\6 | 10\10 |
| 8 | 15 | 0\8 | 0\8 | 0\8 | 2\9 | 0\8 |
| Set up | | 7/7/10 | 7/8/10 | 7/13/10 | 7/14/10 | 7/20/10 |
| Inoculated | | 7/13/10 | 7/14/10 | 7/20/10 | 7/21/10 | 7/26/10 |
| Data | | 7/19/10 | 7/21/10 | 7/26/10 | 7/27/10 | 8/2/10 |

IDENTIFICATION OF PARENT STRAINS 2010

| Strain | Parentage |
|-------------------------|---|
| A1 | Anoka x Mack |
| A2 | M63-17 x C1453 |
| A4 | L15 x AP68-1016 |
| A20 | BSR101 x CN210 |
| A29 | 1%-linolenic plant selection developed by Iowa State University |
| A55-5629-4 | Roanoke x Hawkeye |
| A72-512 | Amsoy x Wayne |
| A75-204018 | IVR4731 x Wirth |
| A76-304020 | (Beeson x AP68-1016) x (L15 x Calland) |
| A80-244003 | NK S1492 x Pella |
| A81-151026 | A75-204018 x Century |
| A81-356022 | Century x A76-304020 |
| A81-356022 | Century x A76-304020 |
| A82-267015 | AP6MTW 2YT(F4)C2 |
| A85-182007 | Vinton 81 x Hardin |
| A86-301024 | A81-356022 x Hack |
| A87-395012 | Fayette x Asgrow A3659 |
| A89-246006 | A85-182007 x [Vinton 81 x Pride B216] x A82-267015 |
| A91-701035 | A86-301024 x DeKalb 226 |
| A92-526007 | A20 x Asgrow 2234 |
| A93-751019 | A89-246006 x LS301 |
| A94-770314 | Pioneer P9303 x A87-395012 |
| A95-682026 | |
| A96-492041 | NKS24-92 x NKS19-90 |
| A96-591033 | IA3003 x Pioneer P9273 |
| A97-553018 | Pioneer YB280 x (Pioneer YB280 x A29) |
| A97-874007 | A93-751019 x IA3006 |
| A99-217006 | Dairyland DSR-365 x Agripro Ap1995 |
| A00-711013 | AP1953 x LN94-10470 |
| A00-711022 | |
| A00-711025 | |
| A00-711041 | |
| A00-711063 | Pioneer P9233 x A95-485020 |
| A01-409031 | A97-874007 x Agripro AP1995 |
| A02-136027 | NE1900 x Pioneer XB28V99 |
| A02-136030 | NE1900 x Pioneer XB28V99 |
| A02-381046 | A97-553018 x XB27U01 |
| A02-381100 | IA2064 x XB27U01 |
| A04-444032 | AP 93046-A95-3127E x IA2064 |
| A04-545015 | Dairyland 98822 x A00-711025 |
| A04-545045 | Pioneer 93B86 x A00-711022 |
| A04-645031 | A00-711041 x Agripro X01138P77 |
| AP 26 | Unknown |
| AgriPro 35 | L15 x Cutler |
| Agripro AP03-06 | AP96596-B99-24476 |
| Agripro AP1989 | AP26 x Vickery |
| Agripro AP1953 | Unknown |
| Agripro AP1995 | Agripro 1989 x Asgrow A3427 |
| Agripro X01138P77 | |
| Agripro 93046-A95-3127E | |
| Agripro 96289-A99-31240 | |
| Agripro 97023-A99-03284 | |

IDENTIFICATION OF PARENT STRAINS 2010

| Strain | Parentage |
|-------------------------|---|
| AgriPro 97144-A00-19136 | |
| AgriPro 98180-A01-06131 | |
| AgriPro 98620-B01-51163 | |
| AP68-1016 | Clark (5) x PI 84.946-2 |
| AR02-101001 | Pioneer P9233 x A96-591033 |
| AR02-101002 | |
| AR03-161013 | (Marcus x PI507354) x IA2036 |
| AR03-361019 | IA1009 x LS90-1920 |
| AR03-361033 | IA1009 x Ripley |
| AR03-361067 | |
| AR04-874013 | Pioneer P9233 x A95-682026 |
| AR04-874018 | Pioneer P9233 x A95-682026 |
| AR05-250117 | Hei-lung x Loda |
| AR05-250118 | |
| Asgrow A1564 | Hark x C1453 |
| Asgrow A1929 | |
| Asgrow A2234 | [(Calland x Amsoy) x (Century(3) x Williams82)] |
| Asgrow A2575 | C1453 x Amsoy 71 |
| Asgrow A3017 | |
| Asgrow A3127 | Williams x Essex |
| Asgrow A3427 | |
| Asgrow A3659 | Williams x Essex |
| Asgrow A3860 | Williams x Essex |
| Asgrow A3966 | |
| Asgrow A4009 | Asgrow A3860 x Fayette |
| Asgrow A4595 | Douglas x Asgrow A3127 |
| Asgrow A5475 | (Tracy x d5064) x Bedford |
| AX56P64-1 | Adams x Harosoy |
| AX5152-105 | Low linolenic acid line |
| C1070 | Ogden x Kent |
| C1079 | Lincoln x Ogden |
| C1223 | C1070 x Adams |
| C1253 | Blackhawk x Harosoy |
| C1266R | Harosoy x C1079 |
| C1423 | C1266R x C1253 |
| C1453 | C1266R x C1253 |
| C1512-44 | CX413 x CX412 |
| C1944 | CRS3-998-24-1 x HC85-2206 |
| C1954 | |
| C1979 | IA3003 x Stressland |
| CL0J173-6-2 | Kottman x Dwight |
| CL0J173-6-8 | Kottman x Dwight |
| CL0J177-9 | Kottman x IA3011 |
| CX407 | Amsoy x C1253 |
| CX412 | Wayne x C1317 |
| CX413 | CX407 x CX412 |
| CRS3-998-24-1 | Sel from High Pro Recurrent Sel Pop. |
| 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 |
| D49-2491 | S100 x CNS = sister line of Lee |
| D51-4877 | Roanoke x N45-745 |

IDENTIFICATION OF PARENT STRAINS 2010

| Strain | Parentage |
|-----------------------|---|
| D55-4168 | Ogden x Biloxi |
| D58-3358 | Jackson (4) x D49-2491 |
| D59-9289 | D51-4877 x D55-4168 |
| D65-6765 | D58-3358 x D59-9289 |
| Dairyland 98822 | |
| Dairyland 99806 | |
| Dairyland 99807 | |
| Dairyland 99540 | |
| Dairyland 99640 | |
| Dairyland 99669 | |
| Dairyland 99707 | |
| Dairyland 99733 | |
| Dairyland 99734 | |
| Dairyland 99753 | |
| Dairyland 99820-33 | |
| Dairyland DSR 304 | Williams x Unknown |
| Dairyland DSR 365 | |
| E01260 | |
| Garst H-2285 | |
| Golden Harvest 24040 | |
| Golden Harvest H2885 | |
| Golden Harvest X33802 | |
| Golden Harvest X33686 | unknown |
| HC85-2206 | Elf x Williams |
| HC99-2763 | |
| HF01-0821 | Pioneer 9392 x HF92-080 |
| HF92-080 | HS84-6224 x Resnik |
| HF99-019 | IA 2022 x Archer |
| HS84-6224 | HW790152 x HW79149 |
| HS87-5720 | A2943 x A83-271027 |
| HS89-2966 | A2943 x A83-271027 |
| HS93-4118 | IA2007 x Dairyland DSR 304 |
| HS94-4530 | (Kottman sib) HS88-7363 x HS88-4988 |
| HS94-9053 | P9268-003 x Vertex |
| HS95-2744 | HS89-2966 x (HS87-5720 x PI 398.223) |
| HS97-5261 | HS94-4530 x IA 3004 |
| HS98-3216 | LG82-8379 x A2943 |
| HS98-7826 | HS93-4118 x Savoy |
| HS0-3243 | HS93-4118 x Kottman |
| HS1-3886 | IA3010 x 9352 |
| HS1-3641 | HS94-9053 x Kottman |
| HS1-3661 | HS93-4118 x P9352 |
| HS1-3907 | DSR300 x HS95-2744 |
| HS1-7116 | HS93-41182 x PI 398.693 |
| HS3-2523 | HS97-5261 x Kottman |
| HW79015 | A72-512 x Oakland |
| HW79149 | (A72-5076 x A1) x (A72-5075 x PI 82263-2) |
| IVR 1120 | Provar x (AX56P64-1 x PI 191.110-1) |
| IVR4731 | Amsoy x Wayne |
| JA53-7-6 | PI358.323 |
| Jacques J103 | Clay x Williams |
| KG20 | McCall x 2S11 |

IDENTIFICATION OF PARENT STRAINS 2010

| Strain | Parentage |
|------------|--|
| K1235 | Hutcheson x Asgrow A3966 |
| K1277 | Hutcheson x Asgrow A3966 |
| K03-2897 | K1454 x HS93-4118 |
| K03-2399 | K99-14 x SS96-10704 |
| K03-3821 | |
| K99-14 | IA3010 x STS line fromDupont |
| Korada | unknown |
| L15 | Wayne(6) x Clark 63 |
| L70-2283 | Custer x Chippewa |
| L73-4673 | Corsoy x L66L-154(Williams sib) |
| L74-3897 | Williams x Beeson |
| L77-443 | Union x L75-8020 |
| L77-906 | Williams x PI 209.332 |
| L77-994 | Williams x PI 88.788 |
| L78-189 | Corsoy x Kingwa |
| L85P-558 | L73-4673 x Fayette |
| L86-1752 | |
| LD00-3296 | LN95-5724 x Dwight |
| LD00-4970 | Maverick x Dwight |
| LD01-5907 | Ina x IA3010 |
| LD01-7323 | LN95-5454 x Dwight |
| LD02-5124 | A97-973002 x Dwight |
| LD02-5320 | A96-591046 x Dwight |
| LD02-4485 | M90-184111 x IA3010 |
| LG00-2455 | LG95-441-4 x IA2022 |
| LG00-3372 | PI 561.319A x PI 574.477 |
| LG00-6313 | F6 PI 574480B x PI 574477 |
| LG00-7196 | LG93-7780 x Macon |
| LG00-8301 | PI 574477 x PI 561377 |
| LG01-4654 | LG93-7780 x Macon |
| LG01-7728 | Williams 82 x (F1 Williams 82 x PI 479767) |
| LG01-7884 | Williams 82 x (F1 Wms x PI 549046) |
| LG82-3002 | PI 253665D x PI 283331 |
| LG82-8224 | PI 68658 x Lawrence |
| LG84-1096 | PI 90566-1 x L74-3897 |
| LG84-1272 | PI 227333 x PI 91730-1 |
| LG85-2846 | PI 404157 x PI 384469A |
| LG85-3343 | PI 361064 x PI 407710 |
| LG86-6989 | PI 253665D x PI 283331 |
| LG88-8958 | PI 253665D x PI 283331 |
| LG89-771 | LG85-3343 x LG85-2846 |
| LG89-6607 | LG82-8224 x Hobbit |
| LG89-6661 | Sherman x LG84-1096 |
| LG89-7793 | PI 391594 x Century |
| LG89-8286 | LG82-3002 x Elgin |
| LG91-7431 | LG84-1272 x Elgin |
| LG93-7780 | LG86-6989 x A3205 |
| LG95-441-4 | PI 68508 x FC 04007B |
| LG97-8984 | LG89-6661 x HS89-3261 |
| LG97-9015 | LG89-8286 x LG89-6661 |
| LG97-9301 | LG89-7793 x LG88-8958 |
| LG98-1445 | F6 LG91-7431 x 9273 |

IDENTIFICATION OF PARENT STRAINS 2010

| Strain | Parentage |
|-----------------------|--|
| LG98-1454 | LG91-7431 x 9273 |
| LG98-1605 | LG88-8958 x LG89-771 |
| LG99-8929 | LG89-6607 x Probst |
| LG00-7196 | |
| LN94-10470 | Jack x Hartwig |
| LN95-5724 | Jack x IA3003 |
| LS301 | unknown |
| LS90-1920 | |
| LS97-3221 | |
| LS98-0582 | Northrup King S46-44 x Asgorw A4138 |
| LS99-2235 | |
| LS01-1987 | |
| Midwest Oilseeds 2050 | (L15 x C1423) x Hark |
| M0835 | IVR 1120 x Calland |
| M00-114140 | |
| M01-139014 | CX1834-1-6 x MN0302 |
| M01-139015 | CX1834-1-6 x MN0302 |
| M02-172013 | A29 x MN0201 |
| M02-175014 | AX5152-105 x MN0201 |
| M10 | Lincoln(2) x Richland |
| M402 | Renville x Capital |
| M42-37 | Lincoln(2) x Richland |
| M53-117 | M10 x PI 180.501 |
| M54-110 | Harosoy x Norchief |
| M54-120 | M54-240 x M54-139 |
| M54-139 | Renville x Capital |
| M54-240 | Korean x M42-37 |
| M59-120 | M54-240 x M54-139 |
| M63-194 | Corsoy x PI 132.207 |
| M63-217Y | Corsoy x M53-117 (Yellow hilum sib of Hodgson) |
| M65-442 | Anoka x Amsoy |
| M63-17 | M402 x M54-110 |
| M68-49 | Evans x M54-120 |
| M68-49-26 | Evans x M59-120 |
| M70-294 | PI 358.323 x M63-217Y |
| M71-148 | Clay x Evans |
| M74-23 | M68-49 x Hodgson |
| M74-227 | M68-49 x M63-194 |
| M81-18 | Evans x M65-442 |
| M81-27 | M68-49-26 x M70-294 |
| M83-16 | A2 x Hodgson 78 |
| M83-64 | M74-227 x L78-189 |
| M84-93 | M71-148 x Ozzie |
| M83-442 | M71-148 x Peterson 0877 |
| M86-421 | M74-23 x Gnome |
| M85-647 | Ozzie x Fayette |
| M86-1973 | |
| M90-361 | M81-27 x M83-16 |
| M90-381 | M81-27 x M83-16 |
| M90-421 | M81-27 x M83-16 |
| M90-162034 | Burlison x M84-93 |
| M90-184111 | L85P-558 x M86-1973 |

IDENTIFICATION OF PARENT STRAINS 2010

| Strain | Parentage |
|------------------|-----------------------------------|
| M91-564 | Ozzie x M86-421 |
| M91-116124 | Faribault x Archer |
| M91-198009 | Toyopro x Kato |
| M92-674 | Agassiz x Ozzie |
| M92-129 | Sturdy x PI 361088 B |
| M92-1525 | M85-647 x Bell |
| M92-1708 | Kato x Bell |
| M95-306-104 | CX1538-70-11-1 x M92-129 |
| M95-116024 | Glacier x S19-90 |
| M95-255017 | M92-1525 x A92-526007 |
| M96-136-20 | F3 ND(M)90-370(2) x Resnick BC2F3 |
| M96-136086 | ND(M)90-370(2) x Resnik |
| M96-133030 | F3 Lambert(2) x Resnick BC2F2 |
| M96-133047 | F3 Lambert(2) x Resnick BC2F2 |
| M96-355009 | M91-116124 x MN1301 |
| M96-356062 | M92-674 x M92-1708 |
| M96-746-4-2 | Agassiz x F2 M95-306-104 |
| M96-71481 | |
| M97-121138 | MN0302 x Pioneer 9004 |
| M97-136016 | M90-162034 x IA2021 |
| M97-304076RR | Surge x M96-136-20 |
| M98-227065 | |
| M98-331009RR | MN0302 x M96-133030 |
| M98-332108RR | M91-198009 x M96-133047 |
| M99-103172 | IA2021 x M96-746-4-2 |
| M99-286047 | |
| MN0081 | MN0304 x Pioneer 9004 |
| MN0401RR | Surge x M96-136-20 |
| MN1504RR | Lambert(2) x Resnick BC2F2 |
| MN1803RR | Parker(2) x Resnick BC2F2 |
| MTC00-112-37-3 | N94-7784 x MN0302 |
| MTC00-112-412-18 | N94-7784 x MN0302 |
| NE1900 | MSBP1 |
| NE2801 | MSBP2 |
| NE3001 | Colfax x A91-701035 |
| NE3202 | MSBP3F6 |
| NEX2403K2R | na |
| NEX2803Y3R | na |
| NEX3301H1R | na |
| N94-7784 | Celeste x Crawford |
| ND88-800 | Maple Amber x Evans |
| ND92-2381 | M83-64 x Pioneer 9061 |
| ND95-952 | ND88-800 x Pioneer 9061 |
| ND95-958 | ND88-800 x Pioneer 9061 |
| ND95-1564 | Parker x Pioneer 9061 |
| ND99-1002 | SD92-1323 x Jim |
| ND00-547 | Pioneer 9092 x Korada |
| ND01-1690 | Pioneer 9092 x ND95-958 |
| ND01-2006 | Proto x Norpro(Rps6) |
| ND01-3533 | IA1009 x ND95-952 |
| ND01-3559 | Pioneer 91B01 x ND92-2381 |
| ND01-3739 | ND95-952 x A96-492041 |

IDENTIFICATION OF PARENT STRAINS 2010

| Strain | Parentage |
|----------------------|---|
| ND02-2559 | |
| ND99-2169 | M91-564 x Pionner 9092 |
| ND(M)90-370(2) | M81-27 x M83-16 |
| ND(M)90-722 | M83-422 x M81-18 |
| NK S20-F8 | |
| 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 S23-03 | Pride B216 x Hodgson |
| Northrup King S24-92 | Asgrow A3127 x [(IVR 1120 x Calland) x (Mitchell x Cutler 71)] |
| Northrup King S25-35 | Northrup King S39-99 x Asgrow A3127 |
| Northrup King S39-99 | S1492 x Mack |
| Northrup King S42-30 | Essex x AgriPro 35 |
| Northrup King S42-32 | MO2050 x Asgrow A5474 |
| Northrup King S46-44 | Asgrow A5474 x Asgrow A3127 |
| Norpro(Rps6) | Norpro(4) x ND88-800 |
| OAC 00-01 | OAC Bayfield x (OT89-16 x OAC Shire) |
| OAC 01-15 | OAC Bayfield x OAC Millennium |
| OAC 92-01 | OAC Eclipse x OT84-12 |
| OAC 97-02 | OAC Exeter x OAC 92-01 |
| ORC 0302 | |
| ORC 9002 | A81-151026 x Elgin |
| OT88-11 | Maple Ridge x Lakota |
| OT89-16 | AC Proteus |
| OT89-18 | Maple Arrow x 881-57 |
| PS 55 | Pride Seed Canada |
| PS 73 | Pride Seed Canada |
| Peterson 0877 | (Clark x Chippewa 64) x Corsoy |
| Pioneer 91B01 | Asgrow A2234 x Pioneer 9061 |
| Pioneer 91M10 | Unknown |
| Pioneer 93B82 | Unknown |
| Pioneer 93B86 | Unknown |
| Pioneer 1677 | Rampage x Corsoy(2) |
| Pioneer P9004 | M83-442 x McCall |
| Pioneer P9061 | Wells x Pioneer 1677 |
| Pioneer P9071 | Pioneer P9061 x Pioneer P9181 |
| Pioneer P9092 | Pioneer 9061 x NKS15-50 |
| Pioneer P9151 | |
| Pioneer P9181 | Beeson x Williams |
| Pioneer P9233 | CM293 x ST2250 |
| Pioneer P9273 | Pioneer 2981 x Asgrow A3127 |
| Pioneer P9281 | Hark x (Corsoy x Calland) |
| Pioneer P9303 | Pioneer P2981 x M0835 |
| Pioneer P9362 | |
| Pioneer XB28V99 | |
| Pioneer YB280 | |
| Pride B152 | Northrup King S 1346 (6) x Mack |
| Pride B216 | Corsoy x Wayne |
| S03-575 | |
| S03-4152 | |
| S03-W4 | Syngenta |

IDENTIFICATION OF PARENT STRAINS 2010

| Strain | Parentage |
|------------------------|--------------------------------|
| S19-90 | Pride B152 x Pella |
| S32-Z3 | |
| S1492 | Corsoy x Wayne |
| S02-577 | |
| S03-3923RR | |
| S04-3962RR | |
| S04-5969RR | |
| SD93-954 | Kasota x Kato |
| SD93-828 | Parker x Archer |
| SD93-828R | SD93-828(4) x Resnik RR |
| SD92-1323 | Kasota x Kato |
| SD96-702 | ORC 9002 x Ozzie |
| SD98-595 | Kato x Asgrow A1929 |
| SD99-36 | |
| SD99-469 | SD93-954 x Marcus 95 |
| SD99-1358 | |
| SDX98-74151 | IA 2034 x C1954 |
| SDX98-76192 | Pioneer P9071 x C1944 |
| SDX00R-029-3 | Pioneer 9151 x SD93-828R |
| SDX00R-039-42 | IA2021 x SD93-828E |
| SG4460NRR | |
| SECAN 00-35 | OAC 95-06 x OAC Bright |
| SECAN 02-09 | ND91-2721 X OAC 92-01 |
| SECAN 02-13 | OAC Millennium x OAC Stratford |
| SS95-15348 | |
| SS96-10704 | |
| SS98-7851 | Pioneer P9362 x Magellan |
| SS98-3403 | NK S42-32 x NK S35-35 |
| Soygenetics 03KL016094 | |
| Soygenetics F21461C | |
| Soygenetics F26135C | |
| Soygenetics F35481C | |
| Soygenetics F35815C | |
| Soygenetics F35978C | |
| Soygenetics F40355C | |
| Syngenta 03KL016094 | |
| Syngenta S18-N5 | |
| Syngenta S25-J5 | |
| Syngenta S32-Z3 | |
| Syngenta M815869 | |
| Syngenta SJ833009 | |
| Syngenta WW228348 | |
| U94-2306 | A94-773014 x Bell |
| U94-3412 | U94-3412 x IA3010 |
| U96-1612 | Parker x Saturn |
| U96-3601 | Saturn x A91-701035 |
| U98-205355 | A94-773014 x Bell |
| U98-307162 | U94-3412 x IA3010 |
| U98-307917 | U94-2306 x A92-77021 |
| U98-311442 | A94-773014 x Bell |
| U98-407345 | |
| U99-507030R | NE3001 x AGH33701 |

IDENTIFICATION OF PARENT STRAINS 2010

| Strain | Parentage |
|------------------|--|
| U00-429037 | U6-1612 x U96-3601 |
| U01-290931 | M91-163126 x NE1900 |
| U01-290680 | NE3001 x HOL-833 |
| U01-390489 | IA1008 x NE3001 |
| U01-390787 | NE3001 x Pioneer 93B82 |
| U02-100215 | Harbin 92 x NE1900 |
| U02-240807 | NE1900 x A97-770031 |
| U03-331729 | U99-009019 x CBN 1900 HO |
| U03-130145R | AAK 2501 MOR x U99-507030R |
| U03-801564R | (DAK 2501 x (CBN1900HO x U99-507030R)) |
| U03-830131R | (DAK 2501 x (CSR 3322 x U99-507030R)) |
| U03-823141R | (DAK 2501 x (CBN1900HO x U99-507030R)) |
| U03-825124R | (DAK 2501 x (CBN1900HO x U99-507030R)) |
| U04-604039 | UP1C8-90-123-10 |
| U04-614043 | UP1C8-90-223-18 |
| U04-615036 | UP1C8-90-233-20 |
| U04-625036 | UP1C8-130-125-19 |
| U04-632043 | UP1C8-90-223-18 |
| UP1-90-123-8 | G. Graef Intermated population |
| UP1C4-95-30 | G. Graef Intermated population |
| UP1C8-90-123-10 | G. Graef Intermated Population |
| UP1C8-90-223-18 | G. Graef Intermated Population |
| UP1C8-90-233-20 | G. Graef Intermated Population |
| UP1FE(S1)C6-47 | G. Graef Intermated Population |
| UP1C8-130-125-19 | G. Graef Intermated Population |
| 9352 | |
| XB27U01 | |

2010 DISEASE, SHATTERING, AND DESCRIPTIVE DATA

| Location | | Tests Conducted By: | Tests | UT | PT | UT RR |
|-----------------|-------------------|----------------------------|------------------|-----------|-----------|--------------|
| IA | Humboldt | W. Fehr/K. Scholbrook | Fe Chlorosis | I-III | | |
| IL | Havana | J. Klein, C. Schmidt | SDS | I | | I-II |
| | Valmeyer | J. Klein, C. Schmidt | SDS | III-IV | | III |
| | Paris | J. Klein, C. Schmidt | SDS | | | II |
| | Univ. of Illinois | T. Niblack | SCN | 00-IV | 0-IV | I-III, PTIV |
| IN | Lafayette | S. Abney, B. Foss | FE | I-IV | I-IV | I-III, PTIV |
| | Lafayette | T. Hughes, B. Foss | PR 4 & PR 7 | 00-IV | 0-IV | I-III, PTIV |
| | Lafayette | W. Crochet | Descriptive Code | 00-IV | 0-IV | I-III, PTIV |
| | Lafayette | W. Crochet | Green Stem | I, II, IV | | |
| | Wanatah | W. Crochet | Green Stem | | IV | II-III |
| MN | Danvers | J.H. Orf, P. Schaus | Fe Chlorosis | 00-II | 0-I | I |
| ONT | Harrow | V. Poysa/B. Armstrong | Green Stem | II | II | |
| OH | Ohio State Univ. | A. Dorrance | PR | II-III | II-III | II-III |
| KS | Manhattan | W. Schapaugh, Jr. | Shattering Score | 00-IV | 0-IV | I-III, PTIV |
| TN | Jackson | P. Arelli, L. Fritz | Green Stem | IV | | |

2010 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 | I | II | III | PTIV | |
| IA | Ames | | | X | X | X | | | | | | | | | | | |
| | Carlisle | | | | | X | | | | | | | | | | | |
| | Eldora | | | X | | | | | | | | | | | | | |
| | Rippey | | | | X | | | | | | | | | | | | |
| | Finch Farms (Ames) | | | | X | | | | X | | | | | | | | |
| | Crawfordsville | | | | | X | | | | X | | | | | | | |
| | Kanawha | | | X | | | | X | | | | | | | | | |
| IL | Belleville | | | | | | X | | | | X | | | | | | X |
| | Brownstown | | | | | | X | | | | | | | | | | |
| | Dekalb | | | | X | | | | | | | | | | | | |
| | Harrisburg | | | | | | X | | | | X | | | | | | |
| | Arthur | | | | | X | | | | | | | | | | | |
| | Urbana | | | | X | X | X | | X | X | X | | X | X | X | | |
| IN | Lafayette | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| | Wanatah | | | X | X | X | | | | | | X | X | X | | | |
| KS | Ashland | | | | | X | X | | | X | X | | | | | | |
| | Manhattan | | | | | X | X | | X | X | | | | X | X | | |
| | Ottawa | | | | | X | X | | | | | | | X | X | | |
| KY | Lexington | | | | | | X | | | | | | | | | | |
| Man | Morden | X | | | | | | | | | | | | | | | |
| MD | Queenstown | | | | | | X | | | | X | | | | | | X |
| MI | Ingham Co. | | | X | X | | | X | X | | | X | X | | | | |
| | Lenawee Co. | | | | X | | | | | | | | X | | | | |
| | Saginaw Co. | | | X | | | | | | | | X | | | | | |
| MN | Crookston | X | | | | | | | | | | | | | | | |
| | Lamberton | | | X | X | | | X | | | | X | X | | | | |
| | Moorhead | X | | | | | | | | | | | | | | | |
| | Morris | | X | | | | | X | | | | | | | | | |
| | Rosemount | | X | | | | | X | | | | | | | | | |
| | Shelly | X | | | | | | | | | | | | | | | |
| | Waseca | | | X | X | | | X | | | | X | X | | | | |
| MO | Columbia | | | | | X | X | | | X | X | | | | | | X |
| | Portageville (Clay) | | | | | X | X | | | | X | | | X | X | | |
| | Portageville (Loam) | | | | | X | X | | | | | | | X | | | |

2010 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 | I | II | III | PTIV |
| NE | Beemer | | | X | X | | | | X | X | | | X | X | | |
| | Cotesfield | | | X | X | | | | X | X | | | X | X | | |
| | DeWitt | | | | | X | | | | | X | | | | X | |
| | Phillips | | | X | X | | | | X | X | | | X | X | | |
| | North Bend | | | | | X | | | | | X | | | | X | |
| | Lincoln | | | | | X | | | | | X | | | | X | |
| ND | Casselton | X | X | | | | | X | | | | | | | | |
| | Northwood | X | | | | | | | | | | | | | | |
| OH | Hoytville | | | | X | X | | | | X | X | | | | | |
| | Wooster | | | | X | X | | | | | | | | | | |
| | St. Charleston | | | | | X | X | | | | X | | | | | |
| ONT | Chatham | | | X | X | | | | | X | | | | | | |
| | Dundalk | X | | | | | | | | | | | | | | |
| | Elora | X | | | | | | | | | | | | | | |
| | Harrow | | | | X | | | | | X | | | | | | |
| | Ottawa | X | X | | | | | | | | | | | | | |
| | Palymra | | | | | | | | X | | | | | | | |
| | St. Pauls | | X | | | | | X | | | | | | | | |
| | Woodstock | | X | | | | | X | | | | | | | | |
| QUE | St. Mathieu | X | X | | | | | X | | | | | | | | |
| | St. Hyacinthe | | | X | | | | | X | | | | X | | | |
| | La Pocatiere | X | | | | | | | | | | | | | | |
| SD | Aurora | | X | X | X | | | X | X | X | | | | | | |
| | Beresford | | | | | | | | | | | | | | | |
| | Bristol | | X | | | | | X | | | | | | | | |
| | Watertown | | | X | | | | | X | | | | | | | |
| TN | Jackson | | | | | | X | | | | | | | | | |
| X Location With Agronomic Data | | 11 | 9 | 16 | 19 | 19 | 15 | 8 | 12 | 11 | 11 | 9 | 10 | 10 | 10 | 8 |
| X Location With Seed Composition Data | | 9 | 9 | 10 | 15 | 11 | 8 | 7 | 8 | 9 | 7 | 4 | 6 | 7 | 6 | 4 |
| * Location data not submitted. | | | | | | | | | | | | | | | | |

Uniform Test 00, 2010

| Ent. | Strain | Parentage | Seed Source | Previous Testing | Gen. Comp. | Unique Traits |
|------|-------------|------------------------------|-------------|------------------|------------|------------------|
| 1. | MN0071 (00) | Harmony x OT92-8 | Orf | 10 | F5 | Rps1 |
| 2. | Cavalier | Sargent x ND96-1006 | Helms | 5 | F4 | Rps6 |
| 3. | MN0095 (0) | M92-270029 x M93-313185 | Orf | 4 | F5 | Rps1 |
| 4. | M03-158071 | M97-121138 x MN0091 | Orf | 1 | F5 | Rps6, White Mold |
| 5. | M03-189083 | PI578371 X Jim | Orf | new | F4 | Diversity |
| 6. | M04-380101 | MN0081 x M01-139015 | Orf | new | F5 | Rps1k |
| 7. | ND04-11421 | (SD96-702 x Loda) x MN0902CN | Helms | 1 | F4 | SCN |
| 8. | ND05-17835 | MN0302 x ND95-1564 | Helms | new | F4 | Rps1k |
| 9. | ND06-5210 | ND00-547 x OAC Atwood | Helms | new | F4 | Rps1c |
| 10. | ND07-1550 | ND01-3739 x ND01-3533 | Helms | new | F4 | SCN, Rps6 |
| 11. | ND07-1834 | ND01-3533 x Walsh | Helms | new | F4 | Rps6 |
| 12. | ND07-1842 | ND01-3533 x Walsh | Helms | new | F4 | Rps6 |
| 13. | ND07-2019 | LaMoure x ND01-1690 | Helms | new | F4 | Rps6 |
| 14. | ND07-3684 | Walsh x LaMoure | Helms | new | F4 | Rps6 |
| 15. | ND07-4027 | M96-356062 x Ashtabula | Helms | new | F4 | Rps6 |
| 16. | ND07-4595 | MN1006CN x Walsh | Helms | new | F4 | Rps6 |
| 17. | OAC 06-02 | SECAN 00-35 x PS 55 | Rajcan | 2 | F5 | |
| 18. | OAC 07-03C | ND97-1211 x S03-W4 | Rajcan | 1 | F5 | |
| 19. | OAC 07-04C | RCAT Corbett x OAC Champion | Rajcan | 1 | F5 | |
| 20. | OAC 07-06C | OAC 01-15 x ND97-1211 | Rajcan | 1 | F5 | |

UNIFORM TEST 00, 2010

DESCRIPTIVE AND DISEASE DATA

| Strain | Descriptive Code | <u>Chlorosis</u> | <u>Shattering</u> | <u>Green Stem</u> | <u>PR</u> | |
|-------------|------------------|------------------|-------------------|---------------------|-----------|-----------|
| | | Score | Score | Score | Lafayette | |
| | | Danvers MN | Manhattan KS | St. Mathieu Que. | Race 4 | Race 7 |
| MN0071 (00) | PTBDYBrI | 1.5 | 2.0 | 1.0 | S | S |
| Cavalier | PTBDYYI | 3.5 | 3.0 | 2.0 | R | R |
| MN0095 (0) | PGBDYIbI | 2.8 | 2.0 | 1.5 | S | S |
| M03-158071 | PTTDYYI | 1.5 | 2.0 | 2.0 | R | S |
| M03-189083 | PGBIYYI | 1.3 | 2.0 | 1.0 | S | S |
| M04-380101 | PTTDYBrI | 3.3 | 2.0 | 1.0 | H* | R |
| ND04-11421 | PTBDYBrI | 3.5 | 3.0 | 2.0 | S | S |
| ND05-17835 | PGTDYBfI | 2.8 | 3.0 | 1.0 | R | R |
| ND06-5210 | PTBDYGrI | 2.0 | 2.0 | 2.5 | S | R |
| ND07-1550 | WGBDYYI | 4.5 | 2.0 | 2.5 | R | R* |
| ND07-1834 | PGBDYBfI | 4.3 | 3.0 | 1.5 | R | S |
| ND07-1842 | WGBDYYI | 2.5 | 3.0 | 2.0 | R | S |
| ND07-2019 | PT+GDYBr+BfI | 1.8 | 2.0 | 2.0 | R | R* |
| ND07-3684 | PTBDYBrI | 1.8 | 2.0 | 3.0 | R | R* |
| ND07-4027 | PGBDYIbI | 3.0 | 2.0 | 2.5 | R | S |
| ND07-4595 | PGBDYYI | 2.3 | 2.0 | 3.0 | H* | S |
| OAC 06-02 | PTBDYBrI | 1.3 | 2.0 | 2.5 | S | S |
| OAC 07-03C | PTBIYYI | 4.0 | 3.0 | 1.0 | S | S |
| OAC 07-04C | PTT+BIYYI | 4.5 | 3.0 | 2.0 | R* | S |
| OAC 07-06C | PTBIYYI | 3.5 | 4.0 | 2.0 | R* | S |

PR: * = *P. sojae* inoc. Reaction NOT compatible with breeder's information about *Rps* Trait

UNIFORM TEST 00, 2010

REGIONAL SUMMARY

| No. of Tests Strain | Yield | Rank | Maturity | Lodging | Plant | Seed | Seed | <u>Composition</u> | |
|------------------------|------------|-----------|------------|-------------|--------------------|-----------------------|---------------------|--------------------|---------------|
| | 11 bu/a | 11 No. | 11 Date | 11 Score | 10 Height In | 9 Quality Score | 10 Size g/100 | 9 Protein % | 9 Oil % |
| MN0071 (00) | 45.2 | 18 | 9/11 | 1.4 | 29 | 1.1 | 16.1 | 33.7 | 18.7 |
| Cavalier | 47.1 | 16 | 3.8 | 1.2 | 28 | 1.1 | 17.9 | 33.9 | 17.9 |
| MN0095 (0) | 48.8 | 11 | 7.9 | 1.3 | 29 | 1.2 | 13.9 | 34.7 | 18.0 |
| M03-158071 | 47.1 | 16 | 3.1 | 1.3 | 31 | 1.0 | 14.0 | 35.7 | 17.2 |
| M03-189083 | 44.5 | 19 | 6.7 | 1.7 | 30 | 1.1 | 15.5 | 36.2 | 17.0 |
| M04-380101 | 42.2 | 20 | 8.4 | 1.4 | 30 | 1.1 | 16.0 | 35.7 | 17.3 |
| ND04-11421 | 49.2 | 8 | 8.0 | 1.2 | 28 | 1.1 | 16.0 | 36.5 | 17.1 |
| ND05-17835 | 48.1 | 14 | 5.1 | 1.2 | 29 | 1.2 | 14.5 | 33.9 | 18.1 |
| ND06-5210 | 52.0 | 2 | 9.1 | 1.4 | 29 | 1.2 | 16.4 | 34.9 | 18.0 |
| ND07-1550 | 49.2 | 8 | 9.2 | 1.3 | 27 | 1.1 | 14.1 | 32.6 | 18.6 |
| ND07-1834 | 49.4 | 7 | 10.5 | 1.5 | 32 | 1.2 | 17.7 | 33.8 | 18.2 |
| ND07-1842 | 47.3 | 15 | 7.4 | 1.5 | 28 | 1.1 | 15.4 | 33.8 | 18.1 |
| ND07-2019 | 50.4 | 6 | 8.9 | 1.2 | 27 | 1.2 | 14.8 | 33.6 | 18.1 |
| ND07-3684 | 49.2 | 8 | 6.5 | 1.2 | 27 | 1.1 | 17.7 | 34.9 | 17.8 |
| ND07-4027 | 51.5 | 3 | 8.1 | 1.4 | 28 | 1.1 | 16.9 | 33.9 | 18.1 |
| ND07-4595 | 51.3 | 4 | 9.8 | 2.1 | 33 | 1.1 | 15.4 | 34.4 | 17.6 |
| OAC 06-02 | 51.1 | 5 | 9.0 | 1.4 | 30 | 1.2 | 15.6 | 34.8 | 17.9 |
| OAC 07-03C | 52.7 | 1 | 4.0 | 1.3 | 30 | 1.0 | 15.4 | 35.7 | 17.6 |
| OAC 07-04C | 48.4 | 12 | 8.3 | 1.3 | 29 | 1.3 | 18.2 | 36.2 | 17.4 |
| OAC 07-06C | 48.3 | 13 | 5.6 | 1.5 | 27 | 1.1 | 16.2 | 35.6 | 15.9 |

110.9 Days After Planting

UNIFORM TEST 00, 2010**2009-2010 2-YEAR MEAN**

| No. of Tests Strain | Yield 17 bu/a | Rank 17 No. | Maturity 21 Date | Lodging 21 Score | Plant Height 19 In. | Seed Quality 18 Score | Seed Size 20 g/100 | <u>Composition</u> | |
|------------------------|---------------------|-------------------|------------------------|------------------------|------------------------------|--------------------------------|-----------------------------|--------------------|----------------|
| | | | | | | | | Protein 18 % | Oil 18 % |
| MN0071 (00) | 43.1 | 9 | 9/17 | 1.3 | 28 | 1.4 | 15.6 | 34.2 | 18.1 |
| Cavalier | 43.5 | 8 | 3.0 | 1.3 | 27 | 1.4 | 17.9 | 34.5 | 17.4 |
| MN0095 (0) | 44.8 | 5 | 7.8 | 1.4 | 28 | 1.4 | 13.2 | 34.8 | 17.6 |
| M03-158071 | 44.6 | 6 | 3.2 | 1.3 | 30 | 1.4 | 13.7 | 36.0 | 16.8 |
| ND04-11421 | 44.0 | 7 | 6.5 | 1.1 | 26 | 1.5 | 16.0 | 36.6 | 16.8 |
| OAC 06-02 | 48.9 | 2 | 5.4 | 1.3 | 28 | 1.5 | 15.2 | 34.5 | 17.8 |
| OAC 07-03C | 49.8 | 1 | 3.8 | 1.3 | 28 | 1.4 | 15.6 | 35.7 | 17.4 |
| OAC 07-04C | 46.9 | 3 | 7.4 | 1.3 | 27 | 1.8 | 17.8 | 36.5 | 17.0 |
| OAC 07-06C | 46.9 | 3 | 4.6 | 1.5 | 26 | 1.3 | 16.0 | 35.5 | 16.7 |

116.2 Days After Planting

2008-2010 3-YEAR MEAN

| No. of Tests Strain | Yield 26 bu/a | Rank 26 No. | Maturity 31 Date | Lodging 31 Score | Plant Height 28 In. | Seed Quality 26 Score | Seed Size 29 g/100 | <u>Composition</u> | |
|------------------------|---------------------|-------------------|------------------------|------------------------|------------------------------|--------------------------------|-----------------------------|--------------------|----------------|
| | | | | | | | | Protein 25 % | Oil 25 % |
| MN0071 (00) | 42.4 | 4 | 9/16 | 1.3 | 28 | 1.4 | 15.3 | 34.3 | 18.1 |
| Cavalier | 43.7 | 3 | 2.5 | 1.2 | 27 | 1.5 | 17.6 | 34.5 | 17.4 |
| MN0095 (0) | 46.4 | 2 | 7.4 | 1.4 | 29 | 1.4 | 13.1 | 34.8 | 17.5 |
| OAC 06-02 | 48.2 | 1 | 5.6 | 1.2 | 28 | 1.5 | 15.1 | 34.4 | 17.8 |

116.1 Days After Planting

UNIFORM TEST 00, 2010

YIELD (bu/a)

| Strain | Mean 11 Tests | Morden MAN | Crookston MN | Moorhead MN | Shelly MN | Casselton ND |
|---------------|---------------------|---------------|-----------------|----------------|--------------|-----------------|
| MN0071 (00) | 45.2 | 49.8 | 47.4 | 23.8 | 29.4 | 31.9 |
| Cavalier | 47.1 | 47.4 | 53.6 | 22.7 | 30.9 | 39.5 |
| MN0095 (0) | 48.8 | 58.1 | 49.0 | 30.0 | 36.0 | 38.3 |
| M03-158071 | 47.1 | 54.8 | 45.7 | 31.6 | 34.7 | 35.4 |
| M03-189083 | 44.5 | 50.5 | 47.5 | 28.7 | 31.8 | 34.9 |
| M04-380101 | 42.2 | 45.1 | 38.2 | 28.3 | 31.4 | 36.6 |
| ND04-11421 | 49.2 | 51.4 | 48.4 | 34.3 | 34.3 | 37.3 |
| ND05-17835 | 48.1 | 52.8 | 48.8 | 27.5 | 32.5 | 43.0 |
| ND06-5210 | 52.0 | 54.0 | 50.0 | 34.7 | 34.8 | 43.3 |
| ND07-1550 | 49.2 | 55.1 | 50.8 | 32.4 | 28.8 | 37.1 |
| ND07-1834 | 49.4 | 49.1 | 43.0 | 26.2 | 36.6 | 43.1 |
| ND07-1842 | 47.3 | 53.1 | 47.2 | 27.9 | 31.5 | 38.1 |
| ND07-2019 | 50.4 | 60.8 | 49.5 | 28.0 | 31.1 | 44.5 |
| ND07-3684 | 49.2 | 53.7 | 50.6 | 35.0 | 31.8 | 37.2 |
| ND07-4027 | 51.5 | 57.7 | 47.4 | 28.4 | 36.5 | 40.8 |
| ND07-4595 | 51.3 | 55.6 | 51.2 | 33.6 | 35.9 | 42.2 |
| OAC 06-02 | 51.1 | 57.1 | 52.5 | 33.5 | 39.9 | 40.9 |
| OAC 07-03C | 52.7 | 59.1 | 51.5 | 32.9 | 36.9 | 34.4 |
| OAC 07-04C | 48.4 | 51.7 | 47.2 | 29.0 | 35.7 | 32.6 |
| OAC 07-06C | 48.3 | 59.3 | 43.8 | 29.3 | 34.6 | 32.9 |
| Location Mean | | 53.8 | 48.2 | 29.9 | 33.8 | 38.2 |
| C.V. (%) | | 8.7 | 8.8 | 9.9 | 10.4 | 12.6 |
| L.S.D. (5%) | | 6.4 | 7.0 | 4.9 | 5.8 | 7.7 |
| Row Sp. (in.) | | 8 | 12 | 10 | 10 | 30 |
| Rows/Plot | | 5 | 8 | 8 | 8 | 4 |
| Reps | | 3 | 3 | 3 | 3 | 3 |

UNIFORM TEST 00, 2010

YIELD (bu/a)

| Strain | Northwood ND | Dundalk ONT | Elora ONT | Ottawa ONT | La Pocatiere Que. | St. Mathieu de-Beloeil Que. |
|---------------|-----------------|----------------|--------------|---------------|-------------------------|-----------------------------------|
| MN0071 (00) | 50.2 | 31.2 | 60.6 | 45.4 | 58.3 | 68.8 |
| Cavalier | 56.5 | 40.2 | 58.7 | 54.8 | 47.7 | 66.2 |
| MN0095 (0) | 58.8 | 35.3 | 54.6 | 49.5 | 61.9 | 65.7 |
| M03-158071 | 52.0 | 31.9 | 57.6 | 44.5 | 58.6 | 71.3 |
| M03-189083 | 48.8 | 41.7 | 48.0 | 42.5 | 52.0 | 63.1 |
| M04-380101 | 46.7 | 29.1 | 57.1 | 43.6 | 48.6 | 59.9 |
| ND04-11421 | 57.7 | 35.8 | 59.8 | 53.8 | 53.8 | 74.3 |
| ND05-17835 | 61.0 | 34.1 | 50.7 | 51.8 | 53.9 | 73.0 |
| ND06-5210 | 58.1 | 38.9 | 58.8 | 59.9 | 62.6 | 77.1 |
| ND07-1550 | 62.2 | 26.9 | 56.5 | 57.0 | 62.1 | 72.5 |
| ND07-1834 | 55.1 | 39.8 | 54.6 | 56.0 | 61.9 | 78.2 |
| ND07-1842 | 61.8 | 38.4 | 58.1 | 48.3 | 55.9 | 60.2 |
| ND07-2019 | 64.1 | 33.9 | 56.8 | 54.3 | 61.5 | 69.5 |
| ND07-3684 | 60.1 | 31.5 | 56.0 | 53.9 | 59.6 | 72.0 |
| ND07-4027 | 64.1 | 36.5 | 64.4 | 54.6 | 65.7 | 70.6 |
| ND07-4595 | 63.9 | 40.0 | 59.0 | 51.8 | 58.7 | 71.9 |
| OAC 06-02 | 59.8 | 33.1 | 57.9 | 57.8 | 58.4 | 70.8 |
| OAC 07-03C | 62.6 | 40.9 | 68.8 | 55.8 | 62.3 | 74.9 |
| OAC 07-04C | 54.8 | 33.3 | 64.7 | 49.9 | 62.9 | 70.6 |
| OAC 07-06C | 57.5 | 34.5 | 65.8 | 47.4 | 57.3 | 69.4 |
| Location Mean | 57.8 | 35.4 | 58.4 | 51.6 | 58.2 | 70.0 |
| C.V. (%) | 7.3 | 8.4 | 5.9 | 6.5 | 5.1 | 5.4 |
| L.S.D. (5%) | 6.8 | 5.6 | 6.0 | 6.8 | 3.3 | 7.8 |
| Row Sp. (in.) | 30 | 14 | 14 | 16 | | 7 |
| Rows/Plot | 4 | 4 | 4 | 4 | | 5 |
| Reps | 3 | 3 | 3 | 3 | 3 | 2 |

UNIFORM TEST 00, 2010**YIELD RANK**

| Strain | Yield Rank | Morden MAN | Crookston MN | Moorhead MN | Shelly MN | Casselton ND |
|-------------|------------|------------|--------------|-------------|-----------|--------------|
| MN0071 (00) | 18 | 17 | 13 | 19 | 19 | 20 |
| Cavalier | 16 | 19 | 1 | 20 | 18 | 8 |
| MN0095 (0) | 11 | 4 | 9 | 9 | 5 | 9 |
| M03-158071 | 16 | 9 | 17 | 8 | 9 | 15 |
| M03-189083 | 19 | 16 | 12 | 12 | 13 | 16 |
| M04-380101 | 20 | 20 | 20 | 14 | 16 | 14 |
| ND04-11421 | 8 | 15 | 11 | 3 | 11 | 11 |
| ND05-17835 | 14 | 13 | 10 | 17 | 12 | 4 |
| ND06-5210 | 2 | 10 | 7 | 2 | 8 | 2 |
| ND07-1550 | 8 | 8 | 5 | 7 | 20 | 13 |
| ND07-1834 | 7 | 18 | 19 | 18 | 3 | 3 |
| ND07-1842 | 15 | 12 | 15 | 16 | 15 | 10 |
| ND07-2019 | 6 | 1 | 8 | 15 | 17 | 1 |
| ND07-3684 | 8 | 11 | 6 | 1 | 13 | 12 |
| ND07-4027 | 3 | 5 | 13 | 13 | 4 | 7 |
| ND07-4595 | 4 | 7 | 4 | 4 | 6 | 5 |
| OAC 06-02 | 5 | 6 | 2 | 5 | 1 | 6 |
| OAC 07-03C | 1 | 3 | 3 | 6 | 2 | 17 |
| OAC 07-04C | 12 | 14 | 15 | 11 | 7 | 19 |
| OAC 07-06C | 13 | 2 | 18 | 10 | 10 | 18 |

UNIFORM TEST 00, 2010

YIELD RANK

| Strain | Northwood ND | Dundalk ONT | Elora ONT | Ottawa ONT | La Pocatiere Que. | St. Mathieu de-Beloeil Que. |
|-------------|-----------------|----------------|--------------|---------------|-------------------------|-----------------------------------|
| MN0071 (00) | 18 | 18 | 5 | 17 | 13 | 15 |
| Cavalier | 14 | 3 | 9 | 6 | 20 | 16 |
| MN0095 (0) | 10 | 10 | 17 | 14 | 6 | 17 |
| M03-158071 | 17 | 16 | 12 | 18 | 11 | 9 |
| M03-189083 | 19 | 1 | 20 | 20 | 18 | 18 |
| M04-380101 | 20 | 19 | 13 | 19 | 19 | 20 |
| ND04-11421 | 12 | 9 | 6 | 10 | 17 | 4 |
| ND05-17835 | 7 | 12 | 19 | 11 | 16 | 5 |
| ND06-5210 | 11 | 6 | 8 | 1 | 3 | 2 |
| ND07-1550 | 5 | 20 | 15 | 3 | 5 | 6 |
| ND07-1834 | 15 | 5 | 17 | 4 | 7 | 1 |
| ND07-1842 | 6 | 7 | 10 | 15 | 15 | 19 |
| ND07-2019 | 1 | 13 | 14 | 8 | 8 | 13 |
| ND07-3684 | 8 | 17 | 16 | 9 | 9 | 7 |
| ND07-4027 | 1 | 8 | 4 | 7 | 1 | 11 |
| ND07-4595 | 3 | 4 | 7 | 12 | 10 | 8 |
| OAC 06-02 | 9 | 15 | 11 | 2 | 12 | 10 |
| OAC 07-03C | 4 | 2 | 1 | 5 | 4 | 3 |
| OAC 07-04C | 16 | 14 | 3 | 13 | 2 | 12 |
| OAC 07-06C | 13 | 11 | 2 | 16 | 14 | 14 |

UNIFORM TEST 00, 2010

MATURITY (date)

| Strain | Mean 11 Tests | Morden MAN | Crookston MN | Moorhead MN | Shelly MN | Casselton ND |
|----------------|---------------------|---------------|-----------------|----------------|--------------|-----------------|
| MN0071 (00) | 9/11 | 9/30 | 9/10 | 9/14 | 9/17 | 9/4 |
| Cavalier | 3.8 | 2 | 5 | 7 | 4 | 0 |
| MN0095 (0) | 7.9 | 3 | 4 | 10 | 10 | 6 |
| M03-158071 | 3.1 | 1 | 0 | 6 | 4 | 0 |
| M03-189083 | 6.7 | 6 | 7 | 7 | 6 | 6 |
| M04-380101 | 8.4 | 2 | 11 | 12 | 11 | 3 |
| ND04-11421 | 8.0 | 2 | 7 | 11 | 11 | 4 |
| ND05-17835 | 5.1 | 1 | 0 | 6 | 7 | 7 |
| ND06-5210 | 9.1 | 4 | 9 | 15 | 11 | 10 |
| ND07-1550 | 9.2 | 4 | 10 | 14 | 11 | 10 |
| ND07-1834 | 10.5 | 7 | 11 | 17 | 11 | 11 |
| ND07-1842 | 7.4 | 3 | 4 | 10 | 10 | 5 |
| ND07-2019 | 8.9 | 3 | 6 | 13 | 10 | 8 |
| ND07-3684 | 6.5 | 2 | 6 | 8 | 8 | 6 |
| ND07-4027 | 8.1 | 3 | 4 | 12 | 11 | 11 |
| ND07-4595 | 9.8 | 6 | 5 | 15 | 10 | 10 |
| OAC 06-02 | 9.0 | 6 | 9 | 15 | 12 | 8 |
| OAC 07-03C | 4.0 | 2 | 4 | 9 | 5 | 4 |
| OAC 07-04C | 8.3 | 2 | 13 | 10 | 9 | 6 |
| OAC 07-06C | 5.6 | 2 | 7 | 9 | 8 | 3 |
| Date Planted | 5/23 | 5/21 | 5/18 | 5/26 | 6/3 | 5/20 |
| Days to Mature | 111 | 132 | 115 | 111 | 106 | 107 |

UNIFORM TEST 00, 2010

MATURITY (date)

| Strain | Northwood ND | Dundalk ONT | Elora ONT | Ottawa ONT | La Pocatiere Que. | St. Mathieu de-Beloeil Que. |
|----------------|-----------------|----------------|--------------|---------------|-------------------------|-----------------------------------|
| MN0071 (00) | 9/9 | 9/16 | 9/11 | 9/3 | 9/7 | 9/7 |
| Cavalier | 3 | 3 | 0 | 13 | 4 | 1 |
| MN0095 (0) | 11 | 13 | -2 | 14 | 12 | 6 |
| M03-158071 | 7 | 6 | -3 | 7 | 6 | 0 |
| M03-189083 | 7 | 5 | 2 | 16 | 5 | 7 |
| M04-380101 | 8 | 18 | 1 | 8 | 15 | 3 |
| ND04-11421 | 12 | 5 | 1 | 18 | 11 | 6 |
| ND05-17835 | 4 | 6 | -4 | 13 | 10 | 6 |
| ND06-5210 | 12 | 6 | 2 | 19 | 5 | 7 |
| ND07-1550 | 11 | 6 | 1 | 16 | 12 | 6 |
| ND07-1834 | 12 | 10 | 0 | 18 | 12 | 7 |
| ND07-1842 | 11 | 11 | -2 | 15 | 9 | 5 |
| ND07-2019 | 11 | 7 | 4 | 17 | 12 | 7 |
| ND07-3684 | 6 | 8 | 0 | 15 | 9 | 4 |
| ND07-4027 | 13 | 7 | -1 | 18 | 5 | 6 |
| ND07-4595 | 14 | 8 | 1 | 18 | 11 | 10 |
| OAC 06-02 | 9 | 8 | 1 | 19 | 5 | 7 |
| OAC 07-03C | 8 | 2 | -1 | 9 | 0 | 2 |
| OAC 07-04C | 11 | 7 | 2 | 20 | 6 | 5 |
| OAC 07-06C | 7 | 1 | 0 | 13 | 7 | 5 |
| Date Planted | 5/28 | 5/25 | 5/26 | 5/17 | 5/27 | 5/19 |
| Days to Mature | 104 | 114 | 108 | 109 | 103 | 111 |

UNIFORM TEST 00, 2010**LODGING (score)**

| Strain | Mean | Morden MAN | Crookston MN | Moorhead MN | Shelly MN | Casselton ND |
|-------------|-------------|---------------|-----------------|----------------|--------------|-----------------|
| | 11 Tests | | | | | |
| MN0071 (00) | 1.4 | 1.3 | 1.0 | 1.3 | 1.0 | 2.0 |
| Cavalier | 1.2 | 1.0 | 1.0 | 1.7 | 1.0 | 1.3 |
| MN0095 (0) | 1.3 | 1.7 | 1.0 | 1.3 | 1.0 | 1.0 |
| M03-158071 | 1.3 | 2.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| M03-189083 | 1.7 | 2.0 | 1.0 | 1.3 | 1.0 | 2.0 |
| M04-380101 | 1.4 | 1.7 | 1.0 | 1.3 | 1.0 | 1.7 |
| ND04-11421 | 1.2 | 1.0 | 1.0 | 1.3 | 1.0 | 1.0 |
| ND05-17835 | 1.2 | 1.3 | 1.0 | 1.0 | 1.0 | 1.3 |
| ND06-5210 | 1.4 | 2.0 | 1.0 | 1.3 | 1.0 | 1.3 |
| ND07-1550 | 1.3 | 1.3 | 1.0 | 1.0 | 1.0 | 1.7 |
| ND07-1834 | 1.5 | 2.0 | 1.0 | 2.0 | 1.0 | 2.3 |
| ND07-1842 | 1.5 | 1.7 | 1.0 | 1.3 | 1.0 | 1.0 |
| ND07-2019 | 1.2 | 1.3 | 1.0 | 1.3 | 1.0 | 1.3 |
| ND07-3684 | 1.2 | 1.0 | 1.0 | 1.3 | 1.0 | 1.0 |
| ND07-4027 | 1.4 | 1.3 | 1.0 | 1.0 | 1.0 | 2.2 |
| ND07-4595 | 2.1 | 2.7 | 1.0 | 1.7 | 1.0 | 2.8 |
| OAC 06-02 | 1.4 | 2.0 | 1.0 | 1.7 | 1.0 | 1.0 |
| OAC 07-03C | 1.3 | 1.0 | 1.0 | 1.3 | 1.0 | 1.0 |
| OAC 07-04C | 1.3 | 1.3 | 1.0 | 1.3 | 1.0 | 1.0 |
| OAC 07-06C | 1.5 | 2.3 | 1.0 | 1.3 | 1.0 | 1.3 |

UNIFORM TEST 00, 2010

LODGING (score)

| Strain | Northwood ND | Dundalk ONT | Elora ONT | Ottawa ONT | La Pocatiere Que. | St. Mathieu de-Beloeil Que. |
|-------------|-----------------|----------------|--------------|---------------|-------------------------|-----------------------------------|
| MN0071 (00) | 1.0 | 1.0 | 1.2 | 3.7 | 1.0 | 1.0 |
| Cavalier | 1.0 | 1.0 | 1.0 | 2.6 | 1.0 | 1.0 |
| MN0095 (0) | 1.3 | 1.0 | 1.0 | 3.4 | 1.0 | 1.0 |
| M03-158071 | 1.0 | 1.0 | 1.0 | 3.7 | 1.0 | 1.0 |
| M03-189083 | 1.3 | 1.0 | 1.0 | 4.2 | 1.0 | 2.5 |
| M04-380101 | 1.0 | 1.0 | 1.0 | 3.4 | 1.5 | 1.0 |
| ND04-11421 | 1.3 | 1.0 | 1.0 | 2.9 | 1.0 | 1.0 |
| ND05-17835 | 1.0 | 1.0 | 1.0 | 2.1 | 1.0 | 1.0 |
| ND06-5210 | 1.0 | 1.0 | 1.0 | 3.0 | 1.3 | 2.0 |
| ND07-1550 | 1.0 | 1.0 | 1.3 | 3.5 | 1.0 | 1.0 |
| ND07-1834 | 1.3 | 1.0 | 1.0 | 2.7 | 1.0 | 1.5 |
| ND07-1842 | 1.0 | 1.0 | 1.0 | 3.0 | 2.0 | 2.5 |
| ND07-2019 | 1.0 | 1.0 | 1.0 | 2.6 | 1.0 | 1.0 |
| ND07-3684 | 1.0 | 1.0 | 1.0 | 2.7 | 1.0 | 1.0 |
| ND07-4027 | 1.7 | 1.0 | 1.0 | 2.7 | 1.3 | 1.0 |
| ND07-4595 | 1.7 | 1.0 | 1.3 | 3.9 | 2.7 | 3.0 |
| OAC 06-02 | 1.0 | 1.0 | 1.0 | 3.0 | 1.3 | 1.0 |
| OAC 07-03C | 1.3 | 1.0 | 1.0 | 3.9 | 1.0 | 1.0 |
| OAC 07-04C | 1.0 | 1.0 | 1.0 | 3.3 | 1.0 | 1.0 |
| OAC 07-06C | 1.0 | 1.0 | 1.0 | 4.0 | 1.3 | 1.0 |

UNIFORM TEST 00, 2010**PLANT HEIGHT (inches)**

| Strain | Mean 10 Tests | Morden MAN | Crookston MN | Moorhead MN | Shelly MN | Casselton ND |
|-------------|---------------------|---------------|-----------------|----------------|--------------|-----------------|
| MN0071 (00) | 29 | 39 | 24 | 23 | 26 | 25 |
| Cavalier | 28 | 37 | 27 | 21 | 21 | 30 |
| MN0095 (0) | 29 | 38 | 25 | 22 | 24 | 31 |
| M03-158071 | 31 | 39 | 26 | 27 | 25 | 33 |
| M03-189083 | 30 | 35 | 30 | 28 | 27 | 29 |
| M04-380101 | 30 | 39 | 25 | 23 | 25 | 31 |
| ND04-11421 | 28 | 34 | 24 | 23 | 24 | 30 |
| ND05-17835 | 29 | 38 | 27 | 23 | 24 | 29 |
| ND06-5210 | 29 | 37 | 22 | 26 | 24 | 26 |
| ND07-1550 | 27 | 36 | 24 | 24 | 18 | 25 |
| ND07-1834 | 32 | 39 | 30 | 25 | 28 | 34 |
| ND07-1842 | 28 | 36 | 20 | 23 | 21 | 27 |
| ND07-2019 | 27 | 35 | 25 | 24 | 21 | 29 |
| ND07-3684 | 27 | 33 | 23 | 24 | 20 | 28 |
| ND07-4027 | 28 | 36 | 21 | 24 | 23 | 26 |
| ND07-4595 | 33 | 41 | 31 | 28 | 25 | 30 |
| OAC 06-02 | 30 | 35 | 28 | 27 | 25 | 28 |
| OAC 07-03C | 30 | 37 | 26 | 26 | 25 | 28 |
| OAC 07-04C | 29 | 37 | 25 | 27 | 24 | 29 |
| OAC 07-06C | 27 | 33 | 22 | 26 | 22 | 25 |

UNIFORM TEST 00, 2010**PLANT HEIGHT (inches)**

| Strain | Northwood ND | Dundalk ONT | Elora ONT | Ottawa ONT | La Pocatiere Que. | St. Mathieu de-Beloeil Que. |
|-------------|-----------------|----------------|--------------|---------------|-------------------------|-----------------------------------|
| MN0071 (00) | | 27 | 37 | 35 | 28 | 29 |
| Cavalier | | 25 | 35 | 33 | 25 | 29 |
| MN0095 (0) | | 24 | 32 | 34 | 30 | 32 |
| M03-158071 | | 28 | 35 | 35 | 30 | 33 |
| M03-189083 | | 25 | 35 | 32 | 29 | 30 |
| M04-380101 | | 28 | 34 | 37 | 27 | 34 |
| ND04-11421 | | 25 | 32 | 32 | 26 | 30 |
| ND05-17835 | | 25 | 34 | 35 | 27 | 31 |
| ND06-5210 | | 25 | 34 | 35 | 29 | 32 |
| ND07-1550 | | 21 | 31 | 33 | 27 | 30 |
| ND07-1834 | | 24 | 36 | 34 | 30 | 36 |
| ND07-1842 | | 26 | 35 | 31 | 29 | 32 |
| ND07-2019 | | 22 | 30 | 31 | 27 | 28 |
| ND07-3684 | | 22 | 30 | 30 | 26 | 29 |
| ND07-4027 | | 25 | 35 | 31 | 31 | 32 |
| ND07-4595 | | 27 | 40 | 37 | 31 | 36 |
| OAC 06-02 | | 25 | 36 | 33 | 29 | 33 |
| OAC 07-03C | | 26 | 36 | 33 | 28 | 30 |
| OAC 07-04C | | 23 | 33 | 32 | 28 | 30 |
| OAC 07-06C | | 25 | 34 | 33 | 27 | 28 |

UNIFORM TEST 00, 2010**SEED QUALITY (score)**

| Strain | Mean 9 Tests | Morden MAN | Crookston MN | Moorhead MN | Shelly MN | Casselton ND |
|-------------|--------------------|---------------|-----------------|----------------|--------------|-----------------|
| MN0071 (00) | 1.1 | | 1.0 | 1.0 | 1.0 | 1.0 |
| Cavalier | 1.1 | | 1.0 | 1.0 | 1.0 | 1.0 |
| MN0095 (0) | 1.2 | | 1.0 | 1.0 | 1.0 | 1.0 |
| M03-158071 | 1.0 | | 1.0 | 1.0 | 1.0 | 1.0 |
| M03-189083 | 1.1 | | 1.0 | 1.0 | 1.0 | 1.0 |
| M04-380101 | 1.1 | | 1.0 | 1.0 | 1.0 | 1.0 |
| ND04-11421 | 1.1 | | 1.0 | 1.0 | 1.0 | 1.0 |
| ND05-17835 | 1.2 | | 1.0 | 1.0 | 1.0 | 1.0 |
| ND06-5210 | 1.2 | | 1.0 | 1.0 | 1.0 | 1.0 |
| ND07-1550 | 1.1 | | 1.0 | 1.0 | 1.0 | 1.0 |
| ND07-1834 | 1.2 | | 1.0 | 1.0 | 1.0 | 1.0 |
| ND07-1842 | 1.1 | | 1.0 | 1.0 | 1.0 | 1.0 |
| ND07-2019 | 1.2 | | 1.0 | 1.0 | 1.0 | 1.0 |
| ND07-3684 | 1.1 | | 1.0 | 1.0 | 1.0 | 1.0 |
| ND07-4027 | 1.1 | | 1.0 | 1.0 | 1.0 | 1.0 |
| ND07-4595 | 1.1 | | 1.0 | 1.0 | 1.0 | 1.0 |
| OAC 06-02 | 1.2 | | 1.0 | 1.0 | 1.0 | 1.0 |
| OAC 07-03C | 1.0 | | 1.0 | 1.0 | 1.0 | 1.0 |
| OAC 07-04C | 1.3 | | 1.0 | 1.0 | 1.0 | 1.0 |
| OAC 07-06C | 1.1 | | 1.0 | 1.0 | 1.0 | 1.0 |

UNIFORM TEST 00, 2010**SEED QUALITY (score)**

| Strain | Northwood ND | Dundalk ONT | Elora ONT | Ottawa ONT | La Pocatiere Que. | St. Mathieu de-Beloeil Que. |
|-------------|-----------------|----------------|--------------|---------------|-------------------------|-----------------------------------|
| MN0071 (00) | 1.0 | 1.5 | 1.0 | 1.0 | | 1.5 |
| Cavalier | 1.0 | 1.0 | 1.0 | 1.0 | | 2.0 |
| MN0095 (0) | 1.0 | 1.5 | 1.0 | 1.0 | | 2.0 |
| M03-158071 | 1.0 | 1.0 | 1.0 | 1.0 | | 1.0 |
| M03-189083 | 1.0 | 1.5 | 1.0 | 1.0 | | 1.5 |
| M04-380101 | 1.0 | 1.0 | 1.0 | 1.0 | | 1.5 |
| ND04-11421 | 1.0 | 1.0 | 1.0 | 1.3 | | 2.0 |
| ND05-17835 | 1.0 | 1.5 | 1.0 | 1.0 | | 2.0 |
| ND06-5210 | 1.0 | 1.5 | 1.0 | 1.0 | | 2.5 |
| ND07-1550 | 1.0 | 1.0 | 1.0 | 1.0 | | 1.5 |
| ND07-1834 | 1.0 | 1.0 | 1.5 | 1.0 | | 2.0 |
| ND07-1842 | 1.0 | 1.5 | 1.0 | 1.3 | | 1.5 |
| ND07-2019 | 1.0 | 1.5 | 1.0 | 1.0 | | 2.0 |
| ND07-3684 | 1.0 | 1.5 | 1.0 | 1.0 | | 1.5 |
| ND07-4027 | 1.0 | 1.0 | 1.0 | 1.3 | | 2.0 |
| ND07-4595 | 1.0 | 1.0 | 1.0 | 1.0 | | 1.5 |
| OAC 06-02 | 1.0 | 1.5 | 1.5 | 1.0 | | 2.0 |
| OAC 07-03C | 1.0 | 1.0 | 1.0 | 1.0 | | 1.0 |
| OAC 07-04C | 1.0 | 1.5 | 1.5 | 2.0 | | 1.5 |
| OAC 07-06C | 1.0 | 1.0 | 1.0 | 1.0 | | 2.0 |

UNIFORM TEST 00, 2010

SEED SIZE (g/100)

| Strain | Mean 10 Tests | Morden MAN | Crookston MN | Moorhead MN | Shelly MN | Casselton ND |
|-------------|---------------------|---------------|-----------------|----------------|--------------|-----------------|
| MN0071 (00) | 16.1 | | 14.5 | 16.0 | 13.9 | 14.7 |
| Cavalier | 17.9 | | 16.3 | 14.0 | 15.8 | 17.0 |
| MN0095 (0) | 13.9 | | 11.7 | 12.0 | 12.2 | 13.3 |
| M03-158071 | 14.0 | | 12.6 | 10.8 | 12.6 | 13.0 |
| M03-189083 | 15.5 | | 13.7 | 10.9 | 12.0 | 16.4 |
| M04-380101 | 16.0 | | 17.5 | 12.3 | 13.7 | 13.2 |
| ND04-11421 | 16.0 | | 15.0 | 12.5 | 15.3 | 14.2 |
| ND05-17835 | 14.5 | | 12.5 | 12.4 | 13.8 | 13.3 |
| ND06-5210 | 16.4 | | 14.7 | 13.9 | 14.6 | 14.8 |
| ND07-1550 | 14.1 | | 12.6 | 11.1 | 12.1 | 13.2 |
| ND07-1834 | 17.7 | | 14.7 | 15.0 | 16.2 | 16.8 |
| ND07-1842 | 15.4 | | 13.9 | 12.1 | 13.6 | 14.8 |
| ND07-2019 | 14.8 | | 12.9 | 11.4 | 13.3 | 13.9 |
| ND07-3684 | 17.7 | | 16.8 | 14.4 | 15.6 | 15.3 |
| ND07-4027 | 16.9 | | 15.0 | 13.3 | 15.3 | 16.3 |
| ND07-4595 | 15.4 | | 13.3 | 12.3 | 12.7 | 14.6 |
| OAC 06-02 | 15.6 | | 14.5 | 12.6 | 13.8 | 13.8 |
| OAC 07-03C | 15.4 | | 14.3 | 12.6 | 13.9 | 14.4 |
| OAC 07-04C | 18.2 | | 16.5 | 14.0 | 16.5 | 16.8 |
| OAC 07-06C | 16.2 | | 13.2 | 11.2 | 13.8 | 14.4 |

UNIFORM TEST 00, 2010

SEED SIZE (g/100)

| Strain | Northwood ND | Dundalk ONT | Elora ONT | Ottawa ONT | La Pocatiere Que. | St. Mathieu de-Beloeil Que. |
|-------------|-----------------|----------------|--------------|---------------|-------------------------|-----------------------------------|
| MN0071 (00) | 14.2 | 18.5 | 16.2 | 20.1 | 15.4 | 17.7 |
| Cavalier | 15.5 | 23.2 | 18.9 | 22.6 | 16.8 | 19.0 |
| MN0095 (0) | 12.6 | 20.1 | 12.2 | 17.3 | 11.6 | 15.9 |
| M03-158071 | 13.3 | 17.6 | 13.2 | 18.1 | 12.9 | 15.9 |
| M03-189083 | 16.2 | 18.6 | 13.3 | 23.4 | 11.9 | 18.6 |
| M04-380101 | 12.9 | 23.7 | 17.9 | 17.7 | 17.2 | 14.2 |
| ND04-11421 | 14.6 | 19.4 | 15.5 | 21.7 | 14.0 | 17.7 |
| ND05-17835 | 12.6 | 18.6 | 13.5 | 18.7 | 12.3 | 17.0 |
| ND06-5210 | 15.5 | 19.6 | 17.2 | 21.2 | 15.2 | 17.1 |
| ND07-1550 | 13.9 | 19.4 | 12.7 | 18.3 | 11.9 | 16.0 |
| ND07-1834 | 15.9 | 23.6 | 16.1 | 23.2 | 15.6 | 19.9 |
| ND07-1842 | 14.6 | 19.8 | 15.6 | 19.4 | 12.7 | 17.7 |
| ND07-2019 | 14.0 | 19.6 | 13.8 | 19.1 | 13.4 | 16.8 |
| ND07-3684 | 15.9 | 23.3 | 17.0 | 22.0 | 16.6 | 19.8 |
| ND07-4027 | 15.9 | 22.2 | 16.4 | 21.5 | 14.1 | 19.3 |
| ND07-4595 | 15.2 | 20.1 | 14.7 | 20.4 | 13.3 | 16.9 |
| OAC 06-02 | 14.4 | 21.4 | 14.7 | 21.0 | 14.2 | 15.4 |
| OAC 07-03C | 15.0 | 18.2 | 15.4 | 19.2 | 13.9 | 16.7 |
| OAC 07-04C | 17.4 | 24.8 | 17.3 | 23.0 | 16.3 | 19.8 |
| OAC 07-06C | 14.9 | 21.1 | 18.1 | 20.4 | 16.1 | 19.1 |

UNIFORM TEST 00, 2010

PROTEIN (%)

| Strain | Mean 9 Tests | Crookston MN | Moorehead MN | Shelly MN | Casselton ND | Northwood ND | Ottawa ONT | Dundalk ONT | Elora ONT | St. Mathieu de-Beloeil Que. |
|-------------|--------------------|-----------------|-----------------|--------------|-----------------|-----------------|---------------|----------------|--------------|-----------------------------------|
| MN0071 (00) | 33.7 | 32.7 | 30.1 | 33.3 | 31.5 | 33.7 | 35.4 | 36.3 | 36.1 | 33.9 |
| Cavalier | 33.9 | 32.1 | 31.4 | 33.4 | 30.8 | 34.4 | 35.4 | 37.6 | 35.7 | 34.8 |
| MN0095 (0) | 34.7 | 32.5 | 32.7 | 34.1 | 33.4 | 35.1 | 35.7 | 37.7 | 35.8 | 35.5 |
| M03-158071 | 35.7 | 35.5 | 32.2 | 35.0 | 35.0 | 35.6 | 36.3 | 38.7 | 36.7 | 35.8 |
| M03-189083 | 36.2 | 35.4 | 32.3 | 34.4 | 36.2 | 37.9 | 39.8 | 36.3 | 37.2 | 36.7 |
| M04-380101 | 35.7 | 36.2 | 32.8 | 34.8 | 33.1 | 33.8 | 36.2 | 40.0 | 38.5 | 35.8 |
| ND04-11421 | 36.5 | 35.3 | 34.2 | 35.2 | 35.5 | 36.7 | 39.2 | 38.4 | 37.6 | 36.4 |
| ND05-17835 | 33.9 | 32.8 | 34.0 | 33.3 | 31.6 | 34.4 | 34.0 | 36.1 | 35.2 | 33.5 |
| ND06-5210 | 34.9 | 33.0 | 32.6 | 33.7 | 34.0 | 35.0 | 36.9 | 37.4 | 35.8 | 35.4 |
| ND07-1550 | 32.6 | 30.8 | 30.5 | 31.5 | 32.3 | 32.8 | 34.0 | 34.5 | 34.7 | 32.7 |
| ND07-1834 | 33.8 | 33.7 | 32.3 | 32.4 | 30.5 | 32.7 | 36.5 | 35.8 | 35.5 | 34.6 |
| ND07-1842 | 33.8 | 32.7 | 32.4 | 33.4 | 31.4 | 34.2 | 34.8 | 36.0 | 35.2 | 34.1 |
| ND07-2019 | 33.6 | 32.0 | 30.1 | 32.8 | 33.9 | 32.0 | 35.9 | 36.5 | 35.1 | 34.5 |
| ND07-3684 | 34.9 | 32.7 | 32.7 | 34.2 | 33.0 | 34.6 | 36.6 | 38.2 | 36.5 | 36.0 |
| ND07-4027 | 33.9 | 32.2 | 32.5 | 33.1 | 31.3 | 34.0 | 35.1 | 37.0 | 35.2 | 34.5 |
| ND07-4595 | 34.4 | 32.5 | 32.6 | 33.5 | 32.8 | 35.5 | 35.8 | 36.2 | 36.5 | 34.4 |
| OAC 06-02 | 34.8 | 34.3 | 32.0 | 32.7 | 33.8 | 36.1 | 36.3 | 37.1 | 36.4 | 34.8 |
| OAC 07-03C | 35.7 | 33.6 | 34.1 | 33.7 | 34.6 | 37.0 | 36.5 | 37.5 | 37.5 | 36.6 |
| OAC 07-04C | 36.2 | 34.7 | 34.5 | 34.6 | 34.6 | 37.1 | 38.3 | 37.8 | 37.8 | 36.3 |
| OAC 07-06C | 35.6 | 33.5 | 33.1 | 33.8 | 34.9 | 35.7 | 36.5 | 38.0 | 37.6 | 36.9 |

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

UNIFORM TEST 00, 2010

OIL (%)

| Strain | Mean 9 Tests | Crookston MN | Moorehead MN | Shelly MN | Casselton ND | Northwood ND | Ottawa ONT | Dundalk ONT | Elora ONT | St. Mathieu de-Beloeil Que. |
|-------------|--------------------|-----------------|-----------------|--------------|-----------------|-----------------|---------------|----------------|--------------|-----------------------------------|
| MN0071 (00) | 18.7 | 18.3 | 19.1 | 17.0 | 21.1 | 18.1 | 19.1 | 18.3 | 18.8 | 18.4 |
| Cavalier | 17.9 | 18.4 | 18.7 | 17.0 | 20.5 | 16.4 | 18.5 | 16.5 | 18.0 | 17.1 |
| MN0095 (0) | 18.0 | 18.4 | 18.5 | 16.3 | 19.3 | 17.7 | 18.5 | 16.8 | 18.3 | 18.2 |
| M03-158071 | 17.2 | 18.0 | 17.5 | 15.8 | 18.1 | 15.0 | 18.2 | 16.7 | 18.1 | 17.3 |
| M03-189083 | 17.0 | 17.7 | 17.6 | 16.3 | 18.0 | 14.1 | 16.8 | 17.7 | 17.7 | 17.1 |
| M04-380101 | 17.3 | 17.2 | 18.1 | 15.7 | 20.0 | 17.0 | 18.4 | 15.1 | 16.9 | 17.3 |
| ND04-11421 | 17.1 | 16.6 | 18.2 | 16.8 | 18.9 | 16.7 | 16.4 | 16.7 | 17.1 | 16.4 |
| ND05-17835 | 18.1 | 17.6 | 18.1 | 17.0 | 20.0 | 18.1 | 18.9 | 17.6 | 17.7 | 18.2 |
| ND06-5210 | 18.0 | 18.2 | 17.4 | 17.1 | 19.1 | 17.5 | 18.4 | 17.5 | 18.8 | 17.8 |
| ND07-1550 | 18.6 | 18.4 | 18.1 | 17.3 | 19.9 | 18.6 | 19.4 | 18.4 | 18.5 | 18.4 |
| ND07-1834 | 18.2 | 17.2 | 18.2 | 17.3 | 20.8 | 15.5 | 19.1 | 17.7 | 19.1 | 18.6 |
| ND07-1842 | 18.1 | 18.1 | 18.4 | 17.3 | 19.3 | 17.5 | 18.8 | 17.3 | 17.9 | 17.8 |
| ND07-2019 | 18.1 | 18.3 | 18.6 | 16.8 | 19.1 | 17.2 | 18.2 | 17.7 | 18.7 | 18.2 |
| ND07-3684 | 17.8 | 18.0 | 17.6 | 17.1 | 19.0 | 18.1 | 17.9 | 17.1 | 18.1 | 17.6 |
| ND07-4027 | 18.1 | 18.3 | 18.1 | 17.4 | 20.2 | 16.1 | 18.7 | 17.6 | 18.5 | 18.1 |
| ND07-4595 | 17.6 | 18.5 | 18.3 | 17.0 | 19.6 | 15.6 | 17.9 | 16.9 | 17.1 | 17.4 |
| OAC 06-02 | 17.9 | 17.9 | 17.8 | 17.3 | 19.4 | 16.5 | 18.4 | 17.6 | 18.5 | 18.1 |
| OAC 07-03C | 17.6 | 18.2 | 17.6 | 16.5 | 18.9 | 16.8 | 18.2 | 17.5 | 17.6 | 17.1 |
| OAC 07-04C | 17.4 | 17.3 | 17.7 | 17.0 | 19.0 | 17.1 | 17.1 | 16.4 | 17.5 | 17.6 |
| OAC 07-06C | 15.9 | 17.1 | 17.9 | 0.0 | 18.4 | 18.2 | 18.5 | 17.6 | 18.4 | 17.4 |

Uniform Test 0, 2010

| Ent. | Strain | Parentage | Seed Source | Previous Testing | Gen. Comp. | Unique Traits |
|------|----------------|---------------------------|-------------|------------------|------------|---------------|
| 1. | Sheyenne (O) | Pioneer 9071 x A96-492041 | Helms | 4 | F4 | Rps1-c |
| 2. | MN1410 (I) | MN0302 x Archer | Orf | 3 | F5 | Rps1k, BSR |
| 3. | Surge (L) | A86-204022 x Kato | Green | 11 | F5 | |
| 4. | MN0095 (E) | M92-270029 x M93-313185 | Orf | UT00 | F5 | Rps1 |
| 5. | MN0606CN (SCN) | MN0901 x MN0902CN | Orf | 2 | F5 | SCN |
| 6. | M01-213045 | OAC98-01 x Lambert | Orf | 2 | F5 | |
| 7. | M02-495076 | LG98-1605 X MN0302 | Orf | 1 | F5 | DIVERSITY |
| 8. | M03-149087 | MN0902CN x MN0304 | Orf | PT0 | F5 | Rps1k |
| 9. | SD04CV-611 | Surge x A96-591033 | Green | 2 | F10 | |
| 10. | SD06-322 | SDX98-74151 x M96-71481 | Green | PT0 | F9 | |
| 11. | SD06-428 | SDX98-74151 x M96-71481 | Green | PT0 | F9 | |
| 12. | SD06-430 | SDX98-76192 x N98-4445A | Green | PT0 | F9 | |
| 13. | SD06-487 | SDX98-76192 x N98-4445A | Green | PT0 | F9 | |
| 14. | SD06-525 | SD99-469 x SD99-36 | Jiang | PT0 | F9 | Rps 1c |

UNIFORM TEST 0, 2010

DESCRIPTIVE AND DISEASE DATA

| Strain | Descriptive Code | <u>Chlorosis</u> | <u>Shattering</u> | <u>Green Stem</u> | <u>PR</u> | |
|----------------|------------------|------------------|-------------------|---------------------|-----------|-----------|
| | | Score | Score | Score | Lafayette | |
| | | Danvers MN | Manhattan KS | St. Mathieu Que. | Race 4 | Race 7 |
| Sheyenne (O) | PGBDYI | 1.3 | 3.0 | 3.0 | S | R |
| MN1410 (I) | WGBDYBfI | 3.3 | 3.0 | 2.5 | S* | S* |
| Surge (L) | PGBDYIbI | 2.5 | 2.0 | 2.5 | S | S |
| MN0095 (E) | PGBDYIbI | 1.5 | 2.0 | 2.0 | S | S |
| MN0606CN (SCN) | WTTDYI | 3.8 | 2.0 | 2.0 | S | S |
| M01-213045 | WGBDYBfI | 3.0 | 4.0 | 1.5 | S | S |
| M02-495076 | WTTDYI | 3.5 | 2.0 | 2.5 | R* | R* |
| M03-149087 | WGTDYI | 1.8 | 5.0 | 2.0 | R | R |
| SD04CV-611 | PTBDYBI | 1.0 | 3.0 | 2.5 | S | S |
| SD06-322 | PGBDYLbI | 3.3 | 3.0 | 1.5 | S | S |
| SD06-428 | PGBDYBfI | 1.5 | 3.0 | 2.0 | S | S |
| SD06-430 | PGBDYLbI | 1.8 | 2.0 | 2.5 | S | S |
| SD06-487 | PGBDYLbI | 1.5 | 2.0 | 2.0 | S | S |
| SD06-525 | WGBDYLbI | 2.0 | 2.0 | 2.5 | R* | R |

PR: * = *P. sojae* inoc. Reaction NOT compatible with breeder's information about *Rps* Trait

UNIFORM TEST 0, 2010

REGIONAL SUMMARY

| No. of Tests Strain | Yield 8 bu/a | Rank 8 No. | Maturity 9 Date | Lodging 9 Score | Plant Height 9 In. | Seed Quality 9 Score | Seed Size 9 g/100 | <u>Composition</u> | |
|------------------------|--------------------|------------------|-----------------------|-----------------------|-----------------------------|-------------------------------|----------------------------|--------------------|---------------|
| | | | | | | | | Protein 9 % | Oil 9 % |
| Sheyenne (O) | 58.9 | 4 | 9/20 | 1.6 | 34 | 1.5 | 16.0 | 33.8 | 18.4 |
| MN1410 (I) | 60.7 | 1 | 7.6 | 1.9 | 37 | 1.4 | 16.8 | 35.1 | 18.1 |
| Surge (L) | 59.3 | 3 | -0.3 | 1.7 | 33 | 1.7 | 19.7 | 36.0 | 18.1 |
| MN0095 (E) | 49.3 | 13 | -7.3 | 1.4 | 30 | 1.3 | 14.4 | 35.1 | 18.3 |
| MN0606CN (SCN) | 54.8 | 12 | 1.4 | 2.2 | 34 | 1.7 | 15.1 | 34.9 | 17.9 |
| M01-213045 | 55.3 | 11 | -1.8 | 2.0 | 37 | 1.6 | 14.6 | 34.4 | 18.3 |
| M02-495076 | 55.7 | 10 | 1.4 | 1.6 | 31 | 1.3 | 16.7 | 35.4 | 18.0 |
| M03-149087 | 48.0 | 14 | -4.0 | 2.3 | 34 | 1.4 | 16.7 | 36.1 | 17.5 |
| SD04CV-611 | 59.8 | 2 | 2.9 | 1.6 | 36 | 1.4 | 20.5 | 36.3 | 18.0 |
| SD06-322 | 57.2 | 5 | 2.8 | 1.3 | 36 | 1.7 | 18.5 | 34.7 | 19.0 |
| SD06-428 | 56.8 | 7 | 4.7 | 2.1 | 36 | 1.6 | 19.3 | 35.8 | 18.6 |
| SD06-430 | 56.2 | 9 | 0.6 | 1.5 | 34 | 1.7 | 18.9 | 34.9 | 18.5 |
| SD06-487 | 56.3 | 8 | 3.0 | 2.1 | 36 | 1.8 | 20.3 | 35.0 | 18.1 |
| SD06-525 | 57.0 | 6 | 6.0 | 1.7 | 36 | 1.5 | 17.4 | 35.4 | 17.6 |

120.4 Days After Planting

UNIFORM TEST 0, 2010

2009-2010 2-YEAR MEAN

| No. of Tests Strain | Yield 17 bu/a | Rank 17 No. | Maturity 18 Date | Lodging 18 Score | Plant Height 17 In. | Seed Quality 16 Score | Seed Size 16 g/100 | <u>Composition</u> | |
|------------------------|---------------------|-------------------|------------------------|------------------------|------------------------------|--------------------------------|-----------------------------|--------------------|----------------|
| | | | | | | | | Protein 16 % | Oil 16 % |
| Sheyenne (0) | 54.4 | 4 | 9/24 | 1.4 | 32 | 1.7 | 15.8 | 34.1 | 17.8 |
| MN1410 (I) | 58.7 | 1 | 7.1 | 1.7 | 36 | 1.8 | 16.8 | 35.1 | 17.8 |
| Surge (L) | 56.3 | 3 | -0.3 | 1.6 | 32 | 1.8 | 19.4 | 36.2 | 17.4 |
| MN0606CN (SCN) | 52.2 | 7 | -0.1 | 1.9 | 33 | 1.6 | 15.1 | 35.2 | 17.5 |
| M01-213045 | 54.4 | 4 | -3.1 | 1.7 | 35 | 1.6 | 13.9 | 33.9 | 17.9 |
| M02-495076 | 54.1 | 6 | 1.8 | 1.4 | 30 | 1.5 | 16.6 | 35.3 | 17.4 |
| SD04CV-611 | 57.3 | 2 | 3.4 | 1.5 | 34 | 1.4 | 21.2 | 36.4 | 17.5 |

124.1 Days After Planting

2008-2010 3-YEAR MEAN

| No. of Tests Strain | Yield 24 | Rank 24 | Maturity 26 | Lodging 26 | Plant Height 24 | Seed Size 23 | Seed Quality 23 | <u>Composition</u> | |
|------------------------|-------------|------------|----------------|---------------|-----------------------|--------------------|-----------------------|--------------------|-----------|
| | | | | | | | | Protein 22 | Oil 22 |
| Sheyenne (0) | 54.8 | 4 | 9/22 | 1.4 | 32 | 1.7 | 15.6 | 34.3 | 17.8 |
| MN1410 (I) | 59.0 | 1 | 7.2 | 1.9 | 36 | 1.7 | 16.7 | 35.3 | 17.8 |
| Surge (L) | 55.5 | 3 | -0.3 | 1.7 | 33 | 1.7 | 19.3 | 36.5 | 17.4 |
| MN0606CN (SCN) | 51.0 | 6 | -0.2 | 1.7 | 33 | 1.6 | 15.0 | 35.5 | 17.4 |
| M01-213045 | 54.4 | 5 | -2.6 | 1.7 | 35 | 1.6 | 13.6 | 34.3 | 17.8 |
| SD04CV-611 | 56.1 | 2 | 3.4 | 1.6 | 33 | 1.5 | 20.7 | 36.6 | 17.4 |

123.6 Days After Planting

UNIFORM TEST 0, 2010

YIELD (bu/a)

| Strain | Mean | Morris MN | Rosemount MN | Casselton ND | Ottawa ONT | St. Pauls ONT | Woodstock ONT | St. Mathieu | | |
|----------------|------------|--------------|-----------------|-----------------|---------------|------------------|------------------|--------------------|--------------|----------|
| | 8 Tests | | | | | | | de-Beloeil Que. | Aurora SD | Bristol* |
| Sheyenne (0) | 58.9 | 46.5 | 51.9 | 53.3 | 63.9 | 72.1 | 47.4 | 87.8 | 47.9 | 30.7 |
| MN1410 (I) | 60.7 | 41.8 | 61.1 | 45.7 | 69.4 | 68.3 | 50.8 | 98.8 | 49.4 | 34.2 |
| Surge (L) | 59.3 | 45.8 | 60.7 | 50.3 | 62.0 | 69.8 | 47.0 | 89.2 | 50.0 | 29.0 |
| MN0095 (E) | 49.3 | 43.0 | 50.9 | 42.9 | 54.8 | 60.5 | 30.6 | 70.3 | 41.3 | 26.4 |
| MN0606CN (SCN) | 54.8 | 43.8 | 60.3 | 41.2 | 53.0 | 71.0 | 45.6 | 76.8 | 47.0 | 33.2 |
| M01-213045 | 55.3 | 53.1 | 45.2 | 45.4 | 55.8 | 70.2 | 45.4 | 83.6 | 43.7 | 31.1 |
| M02-495076 | 55.7 | 49.2 | 50.8 | 45.6 | 50.9 | 71.0 | 45.1 | 85.0 | 48.3 | 29.1 |
| M03-149087 | 48.0 | 36.9 | 44.9 | 39.7 | 46.7 | 62.4 | 34.7 | 75.2 | 43.1 | 33.2 |
| SD04CV-611 | 59.8 | 59.8 | 46.8 | 46.6 | 64.6 | 74.7 | 42.4 | 93.0 | 50.8 | 39.1 |
| SD06-322 | 57.2 | 47.8 | 62.7 | 40.7 | 62.5 | 66.9 | 49.4 | 82.2 | 45.6 | 17.8 |
| SD06-428 | 56.8 | 46.3 | 59.9 | 38.1 | 48.3 | 71.3 | 53.5 | 89.1 | 48.0 | 35.0 |
| SD06-430 | 56.2 | 47.7 | 52.6 | 44.0 | 55.6 | 74.3 | 44.2 | 87.0 | 44.4 | 32.8 |
| SD06-487 | 56.3 | 46.7 | 51.6 | 44.4 | 55.6 | 69.0 | 44.5 | 92.7 | 45.8 | 31.6 |
| SD06-525 | 57.0 | 45.7 | 57.5 | 44.0 | 57.7 | 72.3 | 43.4 | 87.5 | 47.9 | 38.0 |
| Location Mean | | 46.7 | 54.1 | 44.4 | 57.2 | 69.6 | 44.6 | 85.6 | 46.7 | 31.5 |
| C.V. (%) | | 11.7 | 9.3 | 8.9 | 7.3 | 7.3 | 13.0 | 5.4 | 7.1 | 18.3 |
| L.S.D. (5%) | | 9.1 | 8.3 | 6.3 | 8.5 | 8.5 | 12.5 | 8.2 | 5.6 | 9.7 |
| Row Sp. (In.) | | 10 | 10 | 30 | 16 | 14 | 14 | 7 | 30 | 30 |
| Rows/Plot | | 10 | 10 | 4 | 4 | 4 | 4 | 5 | 4 | 4 |
| Reps | | 3 | 3 | 3 | 3 | 3 | 2 | 2 | 3 | 3 |

*Data not included in mean.

UNIFORM TEST 0, 2010

YIELD RANK

| Strain | Yield Rank | Morris MN | Rosemount MN | Casselton ND | Ottawa ONT | St. Pauls ONT | Woodstock ONT | St. Mathieu | | |
|----------------|---------------|--------------|-----------------|-----------------|---------------|------------------|------------------|--------------------|--------------|---------------|
| | | | | | | | | de-Beloeil Que. | Aurora SD | Bristol SD |
| Sheyenne (0) | 4 | 7 | 8 | 1 | 3 | 4 | 4 | 6 | 7 | 10 |
| MN1410 (I) | 1 | 13 | 2 | 4 | 1 | 11 | 2 | 1 | 3 | 4 |
| Surge (L) | 3 | 9 | 3 | 2 | 5 | 9 | 5 | 4 | 2 | 12 |
| MN0095 (E) | 13 | 12 | 10 | 10 | 10 | 14 | 14 | 14 | 14 | 13 |
| MN0606CN (SCN) | 12 | 11 | 4 | 11 | 11 | 6 | 6 | 12 | 8 | 6 |
| M01-213045 | 11 | 2 | 13 | 6 | 7 | 8 | 7 | 10 | 12 | 9 |
| M02-495076 | 10 | 3 | 11 | 5 | 12 | 6 | 8 | 9 | 4 | 11 |
| M03-149087 | 14 | 14 | 14 | 13 | 14 | 13 | 13 | 13 | 13 | 5 |
| SD04CV-611 | 2 | 1 | 12 | 3 | 2 | 1 | 12 | 2 | 1 | 1 |
| SD06-322 | 5 | 4 | 1 | 12 | 4 | 12 | 3 | 11 | 10 | 14 |
| SD06-428 | 7 | 8 | 5 | 14 | 13 | 5 | 1 | 5 | 5 | 3 |
| SD06-430 | 9 | 5 | 7 | 8 | 9 | 2 | 10 | 8 | 11 | 7 |
| SD06-487 | 8 | 6 | 9 | 7 | 8 | 10 | 9 | 3 | 9 | 8 |
| SD06-525 | 6 | 10 | 6 | 8 | 6 | 3 | 11 | 7 | 6 | 2 |

UNIFORM TEST 0, 2010

MATURITY (date)

| Strain | Mean | Morris MN | Rosemount MN | Casselton ND | Ottawa ONT | St. Pauls ONT | Woodstock ONT | St. Mathieu | | |
|----------------|------------|--------------|-----------------|-----------------|---------------|------------------|------------------|--------------------|--------------|---------------|
| | 9 Tests | | | | | | | de-Beloeil Que. | Aurora SD | Bristol SD |
| Sheyenne (0) | 9/20 | 9/18 | 9/18 | 9/22 | 10/5 | 9/19 | 9/21 | 9/21 | 9/10 | 9/24 |
| MN1410 (I) | 7.6 | 11 | 6 | 12 | 4 | 6 | 4 | 10 | 5 | 10 |
| Surge (L) | -0.3 | 4 | 0 | -2 | -2 | -3 | -2 | 2 | 0 | 0 |
| MN0095 (E) | -7.3 | -10 | 0 | -8 | -17 | -6 | -6 | -10 | -9 | 0 |
| MN0606CN (SCN) | 1.4 | 6 | 3 | 4 | -2 | -2 | 2 | 6 | -4 | 0 |
| M01-213045 | -1.8 | -4 | -1 | -3 | -3 | -1 | -1 | -2 | -1 | 0 |
| M02-495076 | 1.4 | 6 | 3 | 2 | -1 | 1 | -1 | 1 | 2 | 0 |
| M03-149087 | -4.0 | -5 | -1 | -5 | -11 | -4 | -1 | -6 | -5 | 2 |
| SD04CV-611 | 2.9 | 9 | 2 | 7 | 0 | 1 | -1 | 6 | 2 | 0 |
| SD06-322 | 2.8 | 10 | 3 | 3 | -1 | 3 | 0 | 3 | 2 | 2 |
| SD06-428 | 4.7 | 8 | 6 | 9 | 5 | 2 | 1 | 6 | 3 | 2 |
| SD06-430 | 0.6 | 8 | 1 | 0 | 1 | 0 | -3 | -2 | 0 | 0 |
| SD06-487 | 3.0 | 10 | 1 | 7 | 1 | 3 | -1 | 2 | 2 | 2 |
| SD06-525 | 6.0 | 11 | 7 | 10 | 2 | 4 | 3 | 6 | 5 | 6 |
| Date Planted | 5/23 | 5/25 | 5/20 | 5/20 | 5/17 | 5/20 | 6/8 | 5/19 | 5/19 | 6/1 |
| Days to Mature | 120 | 116 | 121 | 125 | 141 | 122 | 105 | 125 | 114 | 115 |

UNIFORM TEST 0, 2010

LODGING (score)

| Strain | Mean | Morris MN | Rosemount MN | Casselton ND | Ottawa ONT | St. Pauls ONT | Woodstock ONT | St. Mathieu | | |
|----------------|------------|--------------|-----------------|-----------------|---------------|------------------|------------------|--------------------|--------------|---------------|
| | 9 Tests | | | | | | | de-Beloeil Que. | Aurora SD | Bristol SD |
| Sheyenne (0) | 1.6 | 1.0 | 1.3 | 3.2 | 3.6 | 1.2 | 1.0 | 1.0 | 1.0 | 1.0 |
| MN1410 (I) | 1.9 | 1.0 | 1.7 | 2.0 | 3.2 | 1.7 | 1.3 | 1.8 | 2.0 | 2.0 |
| Surge (L) | 1.7 | 1.0 | 1.0 | 3.0 | 3.0 | 1.7 | 1.0 | 2.5 | 1.0 | 1.0 |
| MN0095 (E) | 1.4 | 1.0 | 2.0 | 1.7 | 2.5 | 1.3 | 1.0 | 1.0 | 1.0 | 1.0 |
| MN0606CN (SCN) | 2.2 | 1.0 | 2.3 | 4.0 | 4.2 | 1.5 | 1.3 | 1.3 | 2.0 | 2.0 |
| M01-213045 | 2.0 | 1.0 | 3.0 | 2.7 | 4.2 | 1.5 | 1.0 | 2.0 | 2.0 | 1.0 |
| M02-495076 | 1.6 | 1.0 | 1.0 | 3.0 | 4.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| M03-149087 | 2.3 | 1.0 | 3.3 | 3.3 | 4.5 | 1.5 | 1.3 | 1.8 | 2.0 | 2.0 |
| SD04CV-611 | 1.6 | 1.0 | 1.3 | 2.0 | 2.9 | 1.3 | 1.3 | 2.0 | 2.0 | 1.0 |
| SD06-322 | 1.3 | 1.0 | 1.3 | 1.3 | 2.4 | 1.0 | 1.0 | 1.0 | 2.0 | 1.0 |
| SD06-428 | 2.1 | 1.0 | 2.0 | 2.3 | 4.3 | 2.0 | 1.0 | 1.0 | 2.0 | 3.0 |
| SD06-430 | 1.5 | 1.0 | 1.3 | 2.0 | 3.7 | 1.2 | 1.0 | 1.0 | 1.0 | 1.0 |
| SD06-487 | 2.1 | 1.0 | 2.3 | 1.7 | 4.4 | 1.7 | 1.3 | 1.5 | 2.0 | 3.0 |
| SD06-525 | 1.7 | 1.0 | 2.0 | 2.0 | 3.2 | 1.3 | 1.0 | 1.0 | 2.0 | 2.0 |

UNIFORM TEST 0, 2010

PLANT HEIGHT (inches)

| Strain | Mean | Morris MN | Rosemount MN | Casselton ND | Ottawa ONT | St. Pauls ONT | Woodstock ONT | St. Mathieu | | |
|----------------|------------|--------------|-----------------|-----------------|---------------|------------------|------------------|--------------------|--------------|---------------|
| | 9 Tests | | | | | | | de-Beloeil Que. | Aurora SD | Bristol SD |
| Sheyenne (0) | 34 | 29 | 38 | 36 | 40 | 33 | 34 | 35 | 38 | 26 |
| MN1410 (I) | 37 | 33 | 42 | 38 | 40 | 39 | 37 | 37 | 42 | 28 |
| Surge (L) | 33 | 30 | 41 | 33 | 34 | 34 | 34 | 36 | 34 | 22 |
| MN0095 (E) | 30 | 28 | 35 | 30 | 32 | 31 | 33 | 30 | 27 | 21 |
| MN0606CN (SCN) | 34 | 35 | 39 | 30 | 41 | 35 | 34 | 36 | 31 | 29 |
| M01-213045 | 37 | 37 | 42 | 35 | 46 | 35 | 35 | 37 | 38 | 31 |
| M02-495076 | 31 | 31 | 37 | 32 | 34 | 31 | 28 | 31 | 32 | 22 |
| M03-149087 | 34 | 34 | 40 | 33 | 41 | 34 | 30 | 36 | 35 | 27 |
| SD04CV-611 | 36 | 38 | 42 | 34 | 38 | 38 | 32 | 37 | 36 | 27 |
| SD06-322 | 36 | 37 | 43 | 35 | 35 | 39 | 32 | 36 | 37 | 26 |
| SD06-428 | 36 | 35 | 44 | 33 | 41 | 36 | 30 | 37 | 37 | 30 |
| SD06-430 | 34 | 30 | 40 | 33 | 37 | 37 | 34 | 34 | 37 | 26 |
| SD06-487 | 36 | 32 | 42 | 37 | 41 | 37 | 34 | 37 | 37 | 25 |
| SD06-525 | 36 | 35 | 41 | 37 | 36 | 37 | 34 | 36 | 40 | 29 |

UNIFORM TEST 0, 2010

SEED QUALITY (score)

| Strain | Mean | Morris MN | Rosemount MN | Casselton ND | Ottawa ONT | St. Pauls ONT | Woodstock ONT | St. Mathieu | | |
|----------------|------------|--------------|-----------------|-----------------|---------------|------------------|------------------|--------------------|--------------|---------------|
| | 9 Tests | | | | | | | de-Beloeil Que. | Aurora SD | Bristol SD |
| Sheyenne (0) | 1.5 | 1.0 | 1.0 | 1.0 | 2.7 | 1.5 | 1.0 | 2.0 | 1.0 | 2.0 |
| MN1410 (I) | 1.4 | 1.0 | 1.0 | 1.0 | 2.0 | 1.5 | 1.0 | 2.0 | 1.0 | 2.0 |
| Surge (L) | 1.7 | 2.0 | 1.0 | 1.0 | 2.3 | 1.5 | 1.5 | 3.0 | 1.0 | 2.0 |
| MN0095 (E) | 1.3 | 1.0 | 1.0 | 1.0 | 1.0 | 1.5 | 1.0 | 1.5 | 2.0 | 2.0 |
| MN0606CN (SCN) | 1.7 | 1.0 | 1.0 | 1.0 | 1.7 | 1.5 | 1.5 | 2.5 | 2.0 | 3.0 |
| M01-213045 | 1.6 | 1.0 | 1.0 | 1.0 | 1.7 | 1.5 | 1.5 | 1.5 | 2.0 | 3.0 |
| M02-495076 | 1.3 | 1.0 | 1.0 | 1.0 | 2.3 | 1.5 | 1.0 | 1.0 | 1.0 | 2.0 |
| M03-149087 | 1.4 | 1.0 | 1.0 | 1.0 | 2.0 | 1.5 | 1.0 | 2.0 | 1.0 | 2.0 |
| SD04CV-611 | 1.4 | 1.0 | 1.0 | 1.0 | 1.0 | 1.5 | 1.0 | 2.5 | 1.0 | 3.0 |
| SD06-322 | 1.7 | 1.0 | 1.0 | 1.0 | 2.0 | 1.5 | 1.5 | 2.0 | 3.0 | 2.0 |
| SD06-428 | 1.6 | 1.0 | 1.0 | 1.0 | 2.7 | 1.5 | 1.5 | 2.0 | 2.0 | 2.0 |
| SD06-430 | 1.7 | 1.0 | 1.0 | 1.0 | 3.0 | 1.5 | 1.5 | 2.5 | 2.0 | 2.0 |
| SD06-487 | 1.8 | 2.0 | 1.0 | 1.0 | 3.0 | 1.5 | 1.5 | 2.5 | 2.0 | 2.0 |
| SD06-525 | 1.5 | 1.0 | 1.0 | 1.0 | 1.7 | 1.5 | 1.0 | 2.0 | 2.0 | 2.0 |

UNIFORM TEST 0, 2010

SEED SIZE (g/100)

| Strain | Mean | Morris MN | Rosemount MN | Casselton ND | Ottawa ONT | St. Pauls ONT | Woodstock ONT | St. Mathieu | Aurora SD | Bristol SD |
|----------------|------------|--------------|-----------------|-----------------|---------------|------------------|------------------|--------------------|--------------|---------------|
| | 9 Tests | | | | | | | de-Beloeil Que. | | |
| Sheyenne (0) | 16.0 | 14.6 | 14.2 | 15.3 | 21.2 | 18.5 | 14.0 | 17.2 | 15.0 | 14.0 |
| MN1410 (I) | 16.8 | 15.4 | 16.8 | 14.5 | 23.1 | 18.5 | 16.0 | 17.4 | 15.1 | 14.0 |
| Surge (L) | 19.7 | 18.6 | 18.4 | 18.5 | 25.3 | 22.7 | 18.8 | 22.6 | 17.9 | 14.3 |
| MN0095 (E) | 14.4 | 12.7 | 12.5 | 14.8 | 18.1 | 15.9 | 12.7 | 15.5 | 12.8 | 14.3 |
| MN0606CN (SCN) | 15.1 | 13.9 | 14.4 | 13.4 | 20.1 | 16.7 | 14.7 | 16.3 | 14.2 | 12.3 |
| M01-213045 | 14.6 | 13.8 | 13.7 | 13.1 | 19.7 | 16.9 | 13.9 | 15.7 | 13.1 | 11.6 |
| M02-495076 | 16.7 | 15.1 | 16.4 | 14.7 | 21.7 | 19.1 | 16.4 | 18.0 | 15.4 | 13.4 |
| M03-149087 | 16.7 | 14.5 | 15.9 | 15.5 | 21.8 | 18.3 | 15.4 | 18.0 | 15.0 | 16.0 |
| SD04CV-611 | 20.5 | 19.2 | 18.4 | 15.5 | 28.0 | 25.0 | 18.3 | 24.4 | 19.7 | 16.2 |
| SD06-322 | 18.5 | 17.0 | 17.7 | 16.9 | 25.3 | 20.7 | 18.2 | 19.0 | 16.4 | 15.5 |
| SD06-428 | 19.3 | 18.8 | 17.1 | 16.2 | 27.3 | 21.7 | 19.3 | 20.2 | 17.3 | 16.0 |
| SD06-430 | 18.9 | 18.9 | 18.0 | 16.9 | 26.8 | 23.2 | 16.8 | 19.6 | 16.0 | 14.0 |
| SD06-487 | 20.3 | 19.1 | 19.2 | 18.1 | 27.3 | 22.3 | 19.5 | 22.4 | 18.6 | 16.5 |
| SD06-525 | 17.4 | 15.8 | 16.0 | 18.9 | 23.5 | 18.6 | 16.3 | 18.3 | 14.8 | 14.1 |

UNIFORM TEST 0, 2010

PROTEIN (%)

| Strain | Mean 9 Tests | Morris MN | Rosemount MN | Casselton ND | Ottawa ONT | St. Pauls ONT | Woodstock ONT | Aurora SD | Bristol SD | St. Mathieu de-Beloil Que. |
|----------------|--------------------|--------------|-----------------|-----------------|---------------|------------------|------------------|--------------|---------------|----------------------------------|
| Sheyenne (0) | 33.8 | 33.7 | 34.2 | 31.6 | 36.0 | 35.2 | 34.8 | 33.4 | 32.2 | 33.2 |
| MN1410 (I) | 35.1 | 34.3 | 35.1 | 32.9 | 38.4 | 36.3 | 35.6 | 35.2 | 33.3 | 35.2 |
| Surge (L) | 36.0 | 34.8 | 36.4 | 34.4 | 38.6 | 37.5 | 37.3 | 35.5 | 32.3 | 37.1 |
| MN0095 (E) | 35.1 | 34.2 | 35.4 | 34.0 | 36.1 | 36.5 | 35.9 | 34.2 | 34.1 | 35.6 |
| MN0606CN (SCN) | 34.9 | 34.0 | 35.1 | 30.5 | 37.1 | 36.9 | 36.1 | 34.8 | 34.3 | 35.7 |
| M01-213045 | 34.4 | 33.1 | 36.2 | 32.7 | 35.9 | 35.7 | 35.0 | 34.2 | 32.4 | 34.2 |
| M02-495076 | 35.4 | 34.6 | 36.0 | 33.6 | 37.8 | 37.4 | 36.8 | 34.8 | 32.7 | 35.1 |
| M03-149087 | 36.1 | 34.2 | 36.5 | 34.9 | 38.0 | 38.0 | 37.2 | 35.0 | 35.2 | 36.0 |
| SD04CV-611 | 36.3 | 35.4 | 36.1 | 34.9 | 38.5 | 38.0 | 37.8 | 35.7 | 33.4 | 36.5 |
| SD06-322 | 34.7 | 33.9 | 35.4 | 33.3 | 37.4 | 35.8 | 35.8 | 33.8 | 32.5 | 34.5 |
| SD06-428 | 35.8 | 34.8 | 36.8 | 32.3 | 39.2 | 37.0 | 36.6 | 35.2 | 34.2 | 35.8 |
| SD06-430 | 34.9 | 33.8 | 35.6 | 32.9 | 37.7 | 36.8 | 35.6 | 34.9 | 32.5 | 34.3 |
| SD06-487 | 35.0 | 34.9 | 34.7 | 32.4 | 38.0 | 36.5 | 36.3 | 33.7 | 32.5 | 35.8 |
| SD06-525 | 35.4 | 34.1 | 35.5 | 34.4 | 38.6 | 37.1 | 36.5 | 34.2 | 32.5 | 35.3 |

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

UNIFORM TEST 0, 2010

OIL (%)

| Strain | Mean 9 Tests | Morris MN | Rosemount MN | Casselton ND | Ottawa ONT | St. Pauls ONT | Woodstock ONT | Aurora SD | Bristol SD | St. Mathieu de-Beloil Que. |
|----------------|--------------------|--------------|-----------------|-----------------|---------------|------------------|------------------|--------------|---------------|----------------------------------|
| Sheyenne (0) | 18.4 | 17.7 | 18.1 | 19.5 | 18.5 | 18.3 | 18.1 | 19.0 | 18.8 | 17.4 |
| MN1410 (I) | 18.1 | 18.0 | 17.5 | 18.7 | 17.6 | 18.4 | 18.4 | 18.9 | 18.1 | 17.4 |
| Surge (L) | 18.1 | 18.0 | 17.9 | 18.7 | 17.8 | 18.1 | 18.3 | 18.0 | 18.6 | 17.1 |
| MN0095 (E) | 18.3 | 18.3 | 17.5 | 18.6 | 18.5 | 18.3 | 18.1 | 19.2 | 18.5 | 17.7 |
| MN0606CN (SCN) | 17.9 | 17.9 | 16.8 | 19.3 | 18.0 | 17.8 | 17.9 | 18.4 | 18.8 | 16.6 |
| M01-213045 | 18.3 | 18.8 | 17.1 | 18.9 | 18.4 | 18.3 | 18.0 | 19.1 | 18.5 | 17.3 |
| M02-495076 | 18.0 | 18.0 | 17.7 | 18.6 | 17.8 | 18.1 | 17.9 | 18.2 | 18.4 | 17.2 |
| M03-149087 | 17.5 | 17.8 | 16.9 | 18.6 | 17.7 | 17.4 | 17.4 | 18.1 | 17.2 | 16.7 |
| SD04CV-611 | 18.0 | 18.1 | 17.8 | 19.0 | 17.8 | 17.8 | 17.9 | 18.6 | 18.2 | 17.1 |
| SD06-322 | 19.0 | 18.3 | 18.3 | 20.1 | 18.9 | 19.1 | 19.1 | 19.6 | 19.3 | 18.2 |
| SD06-428 | 18.6 | 17.7 | 18.1 | 19.9 | 18.4 | 18.6 | 18.6 | 18.9 | 19.0 | 17.9 |
| SD06-430 | 18.5 | 18.2 | 17.8 | 19.1 | 18.5 | 18.2 | 18.6 | 19.5 | 18.9 | 17.7 |
| SD06-487 | 18.1 | 18.2 | 17.6 | 18.7 | 18.0 | 17.9 | 17.7 | 19.5 | 18.7 | 16.4 |
| SD06-525 | 17.6 | 17.0 | 16.9 | 18.9 | 17.1 | 17.7 | 17.6 | 18.6 | 17.9 | 16.9 |

Preliminary Test 0, 2010

| Ent. | Strain | Parentage | Seed Source | Gen. Comp. | Unique Traits |
|------|--------------|-----------------------------|-------------|------------|-------------------------|
| 1. | Sheyenne (O) | Pioneer 9071 x A96-492041 | Helms | F4 | Rps1-c |
| 2. | MN1410 (I) | MN0302 x Archer | Orf | F5 | Rps1k, BSR |
| 3. | Surge (L) | A86-204022 x Kato | Green | F5 | |
| 4. | MN0095 (E) | M92-270029 x M93-313185 | Orf | F5 | Rps1 |
| 5. | M02-399012 | MN0302 x PI 437610A | Orf | | |
| 6. | M04-229039 | MN1302 x M95-116024 | Orf | F5 | Rps1k |
| 7. | M04-254003 | Hendricks x MTC00-112-37-3 | Orf | F5 | |
| 8. | M04-267028 | Lambert x PI291290 | Orf | F5 | Rps1a |
| 9. | M04-338008 | M01-139015 x IA2064 | Orf | F5 | Rps1k 2% Linolenic Acid |
| 10. | M04-340048 | M02-172013 x IA2064 | Orf | F5 | Rps1a 1% Linolenic Acid |
| 11. | M04-380030 | MN0081 x M01-139015 | Orf | F5 | Rps1k |
| 12. | M05-180-4029 | M02-172013 x M99-103172 | Orf | F4 | 2% Linolenic Acid |
| 13. | M05-182007 | MN0304 x IA2064 | Orf | F4 | 1% Linolenic Acid |
| 14. | ND03-5441 | Barnes x MN0902CN | Helms | F4 | SCN, Rps6 |
| 15. | ND07-3761 | ProSoy x ND01-2006 | Helms | F4 | Rps6 |
| 16. | ND07-1721 | ND01-3533 x MN1006CN | Helms | F4 | Rps1c |
| 17. | ND07-1831 | ND01-3533 x Walsh | Helms | F4 | Rps6 |
| 18. | ND07-1855 | ND01-3533 x Walsh | Helms | F4 | Rps6 |
| 19. | ND07-2024 | LaMoure x ND01-1690 | Helms | F4 | Rps6 |
| 20. | ND07-2222 | ND01-3559 x ND99-2169 | Helms | F4 | Rps1k |
| 21. | ND07-2239 | ND01-3559 x ND99-2169 | Helms | F4 | Rps1c |
| 22. | ND07-2303 | ND01-3559 x ND99-2169 | Helms | F4 | Rps1k |
| 23. | ND07-2317 | ND01-3559 x ND99-2169 | Helms | F4 | Rps1k |
| 24. | ND07-2343 | ND01-3559 x ND99-2169 | Helms | F4 | Rps1k |
| 25. | ND07-3292 | ND01-3739 x LaMoure | Helms | F4 | Rps1k |
| 26. | ND07-3376 | ND01-3739 x LaMoure | Helms | F4 | Rps1c |
| 27. | ND07-3381 | ND01-3739 x LaMoure | Helms | F4 | Rps1c |
| 28. | ND07-3772 | ProSoy x ND01-2006 | Helms | F4 | Tofu, Rps6 |
| 29. | ND07-3947 | M97-136016 x ProSoy | Helms | F4 | Rps1k |
| 30. | ND07-4069 | ND02-2559 x A00-711013 | Helms | F4 | Rps6 |
| 31. | OAC 08-11C | SD99-1358 x SeCan 02-13 | Rajcan | F5 | |
| 32. | SD07CV-528 | IA2052 x Pion 9092 | Jiang | F8 | Oil |
| 33. | SD07CV-539 | IA2052 x Pion 9092 | Jiang | F8 | Oil |
| 34. | SD07CV-935 | Pion 9233 x A02-381100-1539 | Jiang | F8 | Protein |

PRELIMINARY TEST 0, 2010

DESCRIPTIVE AND DISEASE DATA

| Strain | Descriptive Code | Chlorosis | Shattering | Green Stem | PR | |
|--------------|------------------|---------------|-----------------|---------------------|-----------|-----------|
| | | Score | Score | Score | Lafayette | |
| | | Danvers MN | Manhattan KS | St. Mathieu Que. | Race 4 | Race 7 |
| Sheyenne (O) | PGBDYI | 2.8 | 3.0 | 2.5 | S | R |
| MN1410 (I) | WGBDYBfI | 3.3 | 3.0 | 2.0 | S* | S* |
| Surge (L) | PGBDYIbI | 3.0 | 2.0 | 2.0 | S | S |
| MN0095 (E) | PGBDYIbI | 1.5 | 2.0 | 2.0 | S | S |
| M02-399012 | WTTDYYI | 1.8 | 1.0 | 2.5 | S | S |
| M04-229039 | PTBDYYI | 1.8 | 2.0 | 2.0 | R | R |
| M04-254003 | PGBDYY+BfI | 1.5 | 2.0 | 1.5 | S | S |
| M04-267028 | PGBIYBfI | 1.5 | 4.0 | 1.5 | S | S |
| M04-338008 | PTBDYBrI | 2.8 | 4.0 | 3.5 | R | R |
| M04-340048 | PTBIYGr+BII | 2.3 | 4.0 | 2.5 | S | S |
| M04-380030 | PTDYBrI | 2.0 | 4.0 | 2.5 | R | R |
| M05-180-4029 | WTTDYBrI | 1.8 | 4.0 | 1.0 | S | S |
| M05-182007 | PBT+BDYIbI | 1.8 | 4.0 | 1.0 | R* | R* |
| ND03-5441 | WGTDYY+BfI | 3.3 | 3.0 | 3.5 | R | R* |
| ND07-3761 | WGBDYYI | 2.0 | 5.0 | 1.5 | R | R* |
| ND07-1721 | PGBDYYI | 2.5 | 2.0 | 2.0 | S | S* |
| ND07-1831 | PGBDYYI | 2.5 | 2.0 | 2.5 | R | H* |
| ND07-1855 | P+WGBDYYI | 3.5 | 3.0 | 2.5 | H* | S |
| ND07-2024 | WTBDYYI | 2.3 | 2.0 | 3.5 | R | R* |
| ND07-2222 | PGTDYBfI | 3.3 | 2.0 | 1.5 | R* | R |
| ND07-2239 | PGTDYBfI | 1.8 | 2.0 | 1.5 | R* | R |
| ND07-2303 | PGBDYYI | 2.5 | 3.0 | 1.5 | R | R |
| ND07-2317 | PGBDYBfI | 1.8 | 2.0 | 2.5 | R | R |
| ND07-2343 | WTBDYBrI | 2.8 | 2.0 | 1.5 | R | S |
| ND07-3292 | WTBDYGrI | 3.0 | 5.0 | 2.5 | R | R |
| ND07-3376 | WGBDYBfI | 3.8 | 2.0 | 3.0 | R* | S* |
| ND07-3381 | PDBDYYI | 2.0 | 3.0 | 2.0 | S | R |
| ND07-3772 | PTBDYYI | 2.5 | 2.0 | 3.0 | R | S |
| ND07-3947 | PGBDYBfI | 2.3 | 5.0 | 1.0 | R | R |
| ND07-4069 | WGBDYYI | 1.5 | 2.0 | 1.5 | R | S |
| OAC 08-11C | PTBDYBII | 2.5 | 4.0 | 1.5 | S | S |
| SD07CV-528 | PGBDYIbII | 2.3 | 5.0 | 2.5 | S | R* |
| SD07CV-539 | WGBDYY+BfI | 1.5 | 3.0 | 1.5 | S | R* |
| SD07CV-935 | PTTDYBII | 2.8 | 4.0 | 1.5 | S | S |

PR: * = *P. sojae* inoc. Reaction NOT compatible with breeder's information about *Rps* Trait

PRELIMINARY TEST 0, 2010

REGIONAL SUMMARY

| No. of Tests Strain | Yield 7 bu/a | Rank 7 No. | Maturity 8 Date | Lodging 8 Score | Plant Height 8 In. | Seed Quality 8 Score | Seed Size 8 g/100 | Composition | |
|------------------------|--------------------|------------------|-----------------------|-----------------------|-----------------------------|-------------------------------|----------------------------|-------------------|---------------|
| | | | | | | | | Protein 7 % | Oil 7 % |
| Sheyenne (O) | 55.0 | 9 | 9/18 | 1.3 | 34 | 1.5 | 15.5 | 33.8 | 19.3 |
| MN1410 (I) | 57.7 | 1 | 7.0 | 2.0 | 38 | 1.2 | 15.9 | 35.4 | 18.0 |
| Surge (L) | 56.2 | 6 | 0.6 | 1.8 | 34 | 1.7 | 19.5 | 36.2 | 18.1 |
| MN0095 (E) | 47.2 | 32 | -7.0 | 1.3 | 28 | 1.4 | 13.9 | 35.0 | 18.3 |
| M02-399012 | 53.0 | 16 | 0.8 | 1.6 | 34 | 1.4 | 13.7 | 36.1 | 17.2 |
| M04-229039 | 50.1 | 26 | 3.6 | 2.6 | 37 | 1.8 | 18.3 | 36.4 | 17.2 |
| M04-254003 | 49.3 | 29 | 5.8 | 2.4 | 38 | 1.4 | 17.2 | 35.3 | 18.1 |
| M04-267028 | 53.6 | 13 | -0.3 | 1.7 | 34 | 1.3 | 16.7 | 35.5 | 18.1 |
| M04-338008 | 50.7 | 22 | 6.8 | 1.5 | 35 | 1.5 | 14.2 | 36.1 | 17.4 |
| M04-340048 | 50.3 | 24 | 9.5 | 2.3 | 41 | 2.1 | 13.5 | 35.6 | 17.1 |
| M04-380030 | 50.1 | 26 | 1.1 | 2.0 | 36 | 1.4 | 14.3 | 35.6 | 17.8 |
| M05-180-4029 | 48.6 | 30 | 0.5 | 1.8 | 32 | 1.9 | 13.7 | 35.9 | 17.3 |
| M05-182007 | 50.7 | 22 | -1.3 | 1.1 | 32 | 1.6 | 14.6 | 35.1 | 18.7 |
| ND03-5441 | 50.3 | 24 | 0.6 | 1.7 | 32 | 1.5 | 14.9 | 34.9 | 17.8 |
| ND07-3761 | 55.4 | 8 | -1.3 | 1.4 | 30 | 1.4 | 15.7 | 32.6 | 19.1 |
| ND07-1721 | 54.0 | 12 | 4.0 | 1.4 | 33 | 1.2 | 14.8 | 33.7 | 18.8 |
| ND07-1831 | 56.3 | 5 | 2.1 | 1.6 | 36 | 1.3 | 17.3 | 34.4 | 18.5 |
| ND07-1855 | 37.2 | 34 | 2.8 | 1.7 | 33 | 1.4 | 17.6 | 34.3 | 18.4 |
| ND07-2024 | 54.2 | 10 | 4.8 | 1.8 | 36 | 1.6 | 13.4 | 32.8 | 18.3 |
| ND07-2222 | 51.0 | 21 | 0.4 | 1.4 | 32 | 1.4 | 13.6 | 30.2 | 18.8 |
| ND07-2239 | 52.3 | 19 | -2.1 | 1.3 | 31 | 1.7 | 16.0 | 33.9 | 18.8 |
| ND07-2303 | 56.5 | 4 | -1.0 | 1.5 | 33 | 1.5 | 11.8 | 33.5 | 18.8 |
| ND07-2317 | 53.5 | 14 | 1.8 | 1.0 | 29 | 1.2 | 14.4 | 32.4 | 19.5 |
| ND07-2343 | 47.3 | 31 | 9.1 | 3.2 | 38 | 1.4 | 15.2 | 33.1 | 17.4 |
| ND07-3292 | 53.5 | 14 | 1.4 | 2.1 | 37 | 2.1 | 14.4 | 33.3 | 18.2 |
| ND07-3376 | 55.9 | 7 | 0.0 | 1.7 | 36 | 1.4 | 14.7 | 33.2 | 18.3 |
| ND07-3381 | 52.3 | 19 | 0.3 | 1.6 | 32 | 1.5 | 15.3 | 33.9 | 18.1 |
| ND07-3772 | 49.8 | 28 | -0.5 | 1.5 | 36 | 1.6 | 16.0 | 35.2 | 18.3 |
| ND07-3947 | 52.5 | 18 | 0.5 | 1.6 | 33 | 1.6 | 17.1 | 36.9 | 17.8 |
| ND07-4069 | 53.0 | 16 | -2.1 | 1.5 | 32 | 1.2 | 15.5 | 33.6 | 19.4 |
| OAC 08-11C | 44.7 | 33 | -1.1 | 1.6 | 33 | 1.5 | 15.9 | 35.8 | 17.5 |
| SD07CV-528 | 54.1 | 11 | 1.0 | 1.6 | 38 | 1.4 | 13.3 | 34.6 | 18.6 |
| SD07CV-539 | 56.9 | 3 | 5.6 | 1.5 | 33 | 1.6 | 15.1 | 33.8 | 18.7 |
| SD07CV-935 | 57.3 | 2 | 5.5 | 1.4 | 35 | 1.5 | 14.9 | 36.0 | 17.8 |

117.5 Days After Planting

PRELIMINARY TEST 0, 2010

YIELD (bu/a)

| Strain | Mean | Morris MN | Rosemount MN | Casselton ND | St. Pauls ONT | Woodstock ONT | St. Mathieu | Aurora SD | Bristol* |
|---------------|------------|--------------|-----------------|-----------------|------------------|------------------|--------------------|--------------|----------|
| | 7 Tests | | | | | | de-Beloeil Que. | | |
| Sheyenne (O) | 55.0 | 41.1 | 50.4 | 46.3 | 72.2 | 38.7 | 82.4 | 53.6 | 30.9 |
| MN1410 (I) | 57.7 | 43.3 | 54.6 | 48.1 | 69.2 | 49.1 | 85.6 | 54.1 | 31.8 |
| Surge (L) | 56.2 | 40.9 | 52.2 | 48.7 | 60.9 | 41.8 | 90.0 | 59.2 | 31.7 |
| MN0095 (E) | 47.2 | 28.7 | 42.5 | 43.1 | 54.3 | 40.7 | 71.5 | 49.7 | 23.7 |
| M02-399012 | 53.0 | 38.8 | 48.0 | 42.3 | 63.1 | 52.6 | 81.9 | 44.2 | 29.5 |
| M04-229039 | 50.1 | 39.4 | 48.6 | 39.4 | 57.8 | 39.7 | 79.8 | 45.9 | 30.6 |
| M04-254003 | 49.3 | 34.5 | 47.0 | 40.5 | 62.8 | 29.3 | 86.6 | 44.2 | 32.0 |
| M04-267028 | 53.6 | 50.2 | 43.6 | 38.6 | 62.4 | 46.1 | 86.7 | 47.7 | 28.5 |
| M04-338008 | 50.7 | 43.0 | 46.0 | 38.2 | 52.9 | 46.4 | 81.7 | 46.8 | 32.5 |
| M04-340048 | 50.3 | 38.8 | 40.5 | 39.8 | 65.3 | 43.1 | 80.3 | 44.2 | 28.1 |
| M04-380030 | 50.1 | 38.4 | 41.7 | 40.7 | 64.6 | 40.1 | 78.7 | 46.8 | 35.4 |
| M05-180-4029 | 48.6 | 34.0 | 41.4 | 45.4 | 53.2 | 38.4 | 82.6 | 45.3 | 28.6 |
| M05-182007 | 50.7 | 38.9 | 42.7 | 42.5 | 60.3 | 37.7 | 81.2 | 51.6 | 35.6 |
| ND03-5441 | 50.3 | 38.3 | 47.8 | 41.4 | 56.0 | 43.0 | 76.7 | 48.8 | 24.0 |
| ND07-3761 | 55.4 | 42.2 | 51.8 | 47.0 | 66.5 | 36.8 | 87.7 | 55.6 | 33.4 |
| ND07-1721 | 54.0 | 39.4 | 49.8 | 43.7 | 65.1 | 45.5 | 85.4 | 48.8 | 32.4 |
| ND07-1831 | 56.3 | 41.7 | 42.0 | 44.7 | 78.7 | 45.3 | 88.5 | 53.5 | 32.1 |
| ND07-1855 | 37.2 | 24.1 | 32.6 | 36.0 | 36.0 | 23.7 | 70.9 | 37.2 | 18.1 |
| ND07-2024 | 54.2 | 41.3 | 53.3 | 43.4 | 69.7 | 38.0 | 80.4 | 53.2 | 36.4 |
| ND07-2222 | 51.0 | 43.1 | 48.8 | 46.0 | 60.5 | 33.1 | 71.6 | 54.2 | 32.4 |
| ND07-2239 | 52.3 | 38.6 | 43.1 | 45.4 | 56.0 | 52.2 | 78.4 | 52.3 | 31.3 |
| ND07-2303 | 56.5 | 41.5 | 55.3 | 49.8 | 60.1 | 50.8 | 81.9 | 56.0 | 26.9 |
| ND07-2317 | 53.5 | 34.2 | 46.4 | 48.4 | 71.9 | 39.0 | 84.9 | 49.9 | 32.7 |
| ND07-2343 | 47.3 | 41.1 | 44.5 | 42.3 | 55.8 | 28.7 | 77.9 | 40.9 | 27.2 |
| ND07-3292 | 53.5 | 39.3 | 41.9 | 43.3 | 71.1 | 46.0 | 83.2 | 49.8 | 37.4 |
| ND07-3376 | 55.9 | 45.4 | 46.3 | 49.0 | 69.4 | 43.5 | 86.5 | 50.9 | 35.7 |
| ND07-3381 | 52.3 | 37.8 | 45.5 | 50.5 | 59.8 | 31.3 | 88.2 | 53.3 | 30.7 |
| ND07-3772 | 49.8 | 37.2 | 49.7 | 32.4 | 61.1 | 45.1 | 75.2 | 48.2 | 39.0 |
| ND07-3947 | 52.5 | 37.3 | 45.5 | 45.6 | 63.1 | 37.0 | 86.4 | 52.3 | 35.4 |
| ND07-4069 | 53.0 | 31.0 | 50.0 | 49.3 | 64.8 | 40.1 | 86.5 | 49.1 | 39.6 |
| OAC 08-11C | 44.7 | 27.5 | 42.1 | 38.5 | 56.5 | 27.0 | 69.6 | 51.7 | 27.4 |
| SD07CV-528 | 54.1 | 39.8 | 54.8 | 40.7 | 53.4 | 49.6 | 88.8 | 51.4 | 38.2 |
| SD07CV-539 | 56.9 | 42.8 | 50.3 | 47.1 | 69.2 | 43.9 | 90.8 | 54.5 | 37.7 |
| SD07CV-935 | 57.3 | 39.0 | 44.6 | 43.3 | 70.6 | 56.9 | 94.5 | 52.5 | 31.7 |
| Location Mean | | 38.6 | 46.6 | 43.6 | 62.2 | 41.2 | 82.4 | 49.9 | 31.7 |
| C.V. (%) | | 10.5 | 12.2 | 8.5 | 9.9 | 10.8 | 5.5 | 7.0 | 16.6 |
| L.S.D. (5%) | | 8.2 | 11.4 | 5.9 | 12.6 | 9.2 | 7.6 | 7.1 | 10.7 |
| Row Sp. (In.) | | 10 | 10 | 30 | 14 | 14 | 7 | 30 | 30 |
| Rows/Plot | | 4 | 4 | 4 | 4 | 4 | 5 | 4 | 4 |
| Reps | | 2 | 2 | 3 | 2 | 2 | 2 | 2 | 2 |

*Data not included in mean.

PRELIMINARY TEST 0, 2010

YIELD RANK

| Strain | Yield Rank | Morris MN | Rosemount MN | Casselton ND | St. Pauls ONT | Woodstock ONT | St. Mathieu | Aurora SD | Bristol SD |
|--------------|------------|-----------|--------------|--------------|---------------|---------------|-----------------|-----------|------------|
| | | | | | | | de-Beloeil Que. | | |
| Sheyenne (O) | 9 | 11 | 7 | 10 | 2 | 23 | 18 | 7 | 22 |
| MN1410 (I) | 1 | 3 | 3 | 7 | 8 | 6 | 13 | 6 | 18 |
| Surge (L) | 6 | 13 | 5 | 5 | 20 | 17 | 3 | 1 | 20 |
| MN0095 (E) | 32 | 32 | 27 | 20 | 30 | 18 | 32 | 20 | 33 |
| M02-399012 | 16 | 20 | 14 | 22 | 15 | 2 | 19 | 30 | 25 |
| M04-229039 | 26 | 15 | 13 | 29 | 25 | 21 | 25 | 28 | 24 |
| M04-254003 | 29 | 28 | 16 | 27 | 17 | 31 | 9 | 31 | 17 |
| M04-267028 | 13 | 1 | 24 | 30 | 18 | 8 | 8 | 25 | 27 |
| M04-338008 | 22 | 5 | 19 | 32 | 33 | 7 | 21 | 27 | 13 |
| M04-340048 | 24 | 20 | 33 | 28 | 11 | 15 | 24 | 32 | 28 |
| M04-380030 | 26 | 23 | 31 | 25 | 14 | 19 | 26 | 26 | 9 |
| M05-180-4029 | 30 | 30 | 32 | 13 | 32 | 24 | 17 | 29 | 26 |
| M05-182007 | 22 | 19 | 26 | 21 | 22 | 26 | 22 | 15 | 8 |
| ND03-5441 | 24 | 24 | 15 | 24 | 27 | 16 | 29 | 22 | 32 |
| ND07-3761 | 8 | 7 | 6 | 9 | 10 | 28 | 7 | 3 | 11 |
| ND07-1721 | 12 | 15 | 10 | 16 | 12 | 10 | 14 | 23 | 14 |
| ND07-1831 | 5 | 8 | 29 | 15 | 1 | 11 | 5 | 8 | 16 |
| ND07-1855 | 34 | 34 | 34 | 33 | 34 | 34 | 33 | 34 | 34 |
| ND07-2024 | 10 | 10 | 4 | 17 | 6 | 25 | 23 | 10 | 6 |
| ND07-2222 | 21 | 4 | 12 | 11 | 21 | 29 | 31 | 5 | 15 |
| ND07-2239 | 19 | 22 | 25 | 13 | 27 | 3 | 27 | 12 | 21 |
| ND07-2303 | 4 | 9 | 1 | 2 | 23 | 4 | 20 | 2 | 31 |
| ND07-2317 | 14 | 29 | 17 | 6 | 3 | 22 | 15 | 18 | 12 |
| ND07-2343 | 31 | 11 | 23 | 22 | 29 | 32 | 28 | 33 | 30 |
| ND07-3292 | 14 | 17 | 30 | 18 | 4 | 9 | 16 | 19 | 5 |
| ND07-3376 | 7 | 2 | 18 | 4 | 7 | 14 | 10 | 17 | 7 |
| ND07-3381 | 19 | 25 | 20 | 1 | 24 | 30 | 6 | 9 | 23 |
| ND07-3772 | 28 | 27 | 11 | 34 | 19 | 12 | 30 | 24 | 2 |
| ND07-3947 | 18 | 26 | 20 | 12 | 15 | 27 | 12 | 13 | 10 |
| ND07-4069 | 16 | 31 | 9 | 3 | 13 | 19 | 11 | 21 | 1 |
| OAC 08-11C | 33 | 33 | 28 | 31 | 26 | 33 | 34 | 14 | 29 |
| SD07CV-528 | 11 | 14 | 2 | 25 | 31 | 5 | 4 | 16 | 3 |
| SD07CV-539 | 3 | 6 | 8 | 8 | 8 | 13 | 2 | 4 | 4 |
| SD07CV-935 | 2 | 18 | 22 | 18 | 5 | 1 | 1 | 11 | 19 |

PRELIMINARY TEST 0, 2010

MATURITY (date)

| Strain | Mean | Morris MN | Rosemount MN | Casselton ND | St. Pauls ONT | Woodstock ONT | St. Mathieu | Aurora SD | Bristol SD |
|----------------|------------|--------------|-----------------|-----------------|------------------|------------------|--------------------|--------------|---------------|
| | 8 Tests | | | | | | de-Beloeil Que. | | |
| Sheyenne (O) | 9/18 | 9/22 | 9/15 | 9/21 | 9/18 | 9/21 | 9/21 | 9/6 | 9/26 |
| MN1410 (I) | 7.0 | 3 | 3 | 12 | 7 | 3 | 10 | 9 | 9 |
| Surge (L) | 0.6 | 2 | 0 | 1 | -1 | 0 | 2 | 3 | -2 |
| MN0095 (E) | -7.0 | -7 | 0 | -7 | -9 | -8 | -10 | -6 | -9 |
| M02-399012 | 0.8 | 1 | 6 | 0 | 1 | -3 | 0 | 3 | -2 |
| M04-229039 | 3.6 | 4 | 8 | 5 | 4 | -1 | 2 | 3 | 4 |
| M04-254003 | 5.8 | 4 | 2 | 6 | 6 | 2 | 11 | 6 | 9 |
| M04-267028 | -0.3 | 2 | 2 | 0 | -2 | -3 | 1 | 0 | -2 |
| M04-338008 | 6.8 | 7 | 11 | 12 | 5 | 4 | 6 | 6 | 3 |
| M04-340048 | 9.5 | 7 | 11 | 12 | 1 | 9 | 11 | 16 | 9 |
| M04-380030 | 1.1 | 1 | 3 | 1 | -1 | 0 | 1 | 3 | 1 |
| M05-180-4029 | 0.5 | 3 | 3 | -1 | 0 | -1 | 2 | 0 | -2 |
| M05-182007 | -1.3 | -5 | 0 | -2 | -1 | -3 | -3 | 2 | 2 |
| ND03-5441 | 0.6 | 3 | 0 | 2 | 1 | 1 | 0 | 2 | -4 |
| ND07-3761 | -1.3 | 3 | 0 | -3 | -3 | -1 | -4 | 0 | -2 |
| ND07-1721 | 4.0 | 6 | 3 | 10 | 2 | 2 | 3 | 5 | 1 |
| ND07-1831 | 2.1 | 5 | 0 | 6 | 0 | -2 | 2 | 6 | 0 |
| ND07-1855 | 2.8 | 2 | 2 | 4 | 2 | 2 | 2 | 6 | 2 |
| ND07-2024 | 4.8 | 4 | 6 | 11 | 5 | -1 | 6 | 6 | 1 |
| ND07-2222 | 0.4 | 4 | 0 | -1 | 0 | 1 | -1 | 2 | -2 |
| ND07-2239 | -2.1 | 3 | 0 | -2 | -4 | -4 | -2 | -5 | -3 |
| ND07-2303 | -1.0 | 1 | 0 | -1 | -3 | -4 | -6 | 7 | -2 |
| ND07-2317 | 1.8 | 5 | 0 | 5 | 1 | 1 | 0 | 2 | 0 |
| ND07-2343 | 9.1 | 8 | 6 | 11 | 7 | 4 | 11 | 16 | 10 |
| ND07-3292 | 1.4 | 5 | 3 | 3 | -3 | -1 | 2 | 4 | -2 |
| ND07-3376 | 0.0 | 4 | 0 | -1 | -1 | -1 | 0 | 1 | -2 |
| ND07-3381 | 0.3 | 4 | 0 | 2 | 2 | 0 | -5 | 0 | -1 |
| ND07-3772 | -0.5 | 1 | 5 | 0 | 0 | -3 | -5 | 0 | -2 |
| ND07-3947 | 0.5 | 0 | 2 | 3 | -1 | -1 | 1 | 2 | -2 |
| ND07-4069 | -2.1 | -3 | 0 | 0 | 0 | -5 | -5 | -3 | -1 |
| OAC 08-11C | -1.1 | -4 | 5 | -1 | -2 | -1 | -4 | 0 | -2 |
| SD07CV-528 | 1.0 | 2 | 0 | 2 | 1 | -1 | 1 | 2 | 1 |
| SD07CV-539 | 5.6 | 4 | 8 | 9 | 1 | 2 | 4 | 8 | 9 |
| SD07CV-935 | 5.5 | 4 | 5 | 12 | 4 | 0 | 10 | 7 | 2 |
| Date Planted | 5/24 | 5/25 | 5/20 | 5/20 | 5/20 | 6/8 | 5/19 | 5/19 | 6/1 |
| Days to Mature | 118 | 120 | 118 | 124 | 121 | 105 | 125 | 110 | 117 |

PRELIMINARY TEST 0, 2010

LODGING (score)

| Strain | Mean 8 Tests | Morris MN | Rosemount MN | Casselton ND | St. Pauls ONT | Woodstock ONT | St. Mathieu de-Beloeil Que. | Aurora SD | Bristol SD |
|--------------|--------------------|--------------|-----------------|-----------------|------------------|------------------|-----------------------------------|--------------|---------------|
| Sheyenne (O) | 1.3 | 1.0 | 2.0 | 2.7 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| MN1410 (I) | 2.0 | 1.0 | 2.0 | 3.0 | 1.7 | 1.2 | 1.8 | 3.0 | 2.0 |
| Surge (L) | 1.8 | 1.0 | 2.0 | 3.3 | 1.6 | 1.0 | 2.5 | 2.0 | 1.0 |
| MN0095 (E) | 1.3 | 1.0 | 2.0 | 2.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| M02-399012 | 1.6 | 1.0 | 2.0 | 2.3 | 1.8 | 1.0 | 2.0 | 2.0 | 1.0 |
| M04-229039 | 2.6 | 1.0 | 2.5 | 3.7 | 2.7 | 1.3 | 2.5 | 3.0 | 4.0 |
| M04-254003 | 2.4 | 1.0 | 2.5 | 3.8 | 2.1 | 1.1 | 2.3 | 4.0 | 2.0 |
| M04-267028 | 1.7 | 1.0 | 2.5 | 3.0 | 1.3 | 1.5 | 1.0 | 2.0 | 1.0 |
| M04-338008 | 1.5 | 1.0 | 2.0 | 1.0 | 2.1 | 1.2 | 1.0 | 2.0 | 2.0 |
| M04-340048 | 2.3 | 1.0 | 3.0 | 2.3 | 3.2 | 1.9 | 3.0 | 3.0 | 1.0 |
| M04-380030 | 2.0 | 1.0 | 2.0 | 3.3 | 1.1 | 1.0 | 1.5 | 3.0 | 3.0 |
| M05-180-4029 | 1.8 | 1.0 | 1.5 | 3.0 | 1.4 | 1.1 | 1.5 | 4.0 | 1.0 |
| M05-182007 | 1.1 | 1.0 | 1.0 | 1.7 | 1.2 | 1.0 | 1.0 | 1.0 | 1.0 |
| ND03-5441 | 1.7 | 1.0 | 2.0 | 2.5 | 1.5 | 1.0 | 1.3 | 3.0 | 1.0 |
| ND07-3761 | 1.4 | 1.0 | 1.5 | 2.7 | 1.1 | 1.0 | 1.0 | 2.0 | 1.0 |
| ND07-1721 | 1.4 | 1.0 | 3.0 | 1.8 | 1.3 | 1.1 | 1.0 | 1.0 | 1.0 |
| ND07-1831 | 1.6 | 1.0 | 2.0 | 3.3 | 1.4 | 1.0 | 1.0 | 2.0 | 1.0 |
| ND07-1855 | 1.7 | 1.0 | 2.5 | 2.7 | 1.8 | 1.0 | 1.5 | 2.0 | 1.0 |
| ND07-2024 | 1.8 | 1.0 | 2.0 | 3.0 | 1.1 | 1.2 | 1.3 | 3.0 | 2.0 |
| ND07-2222 | 1.4 | 1.0 | 1.0 | 2.8 | 1.1 | 1.0 | 1.0 | 2.0 | 1.0 |
| ND07-2239 | 1.3 | 1.0 | 1.5 | 3.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| ND07-2303 | 1.5 | 1.0 | 2.0 | 3.5 | 1.6 | 1.0 | 1.0 | 1.0 | 1.0 |
| ND07-2317 | 1.0 | 1.0 | 1.0 | 1.0 | 1.2 | 1.0 | 1.0 | 1.0 | 1.0 |
| ND07-2343 | 3.2 | 1.0 | 3.0 | 4.2 | 4.1 | 1.5 | 2.8 | 4.0 | 5.0 |
| ND07-3292 | 2.1 | 1.0 | 2.5 | 3.3 | 1.9 | 1.1 | 1.8 | 3.0 | 2.0 |
| ND07-3376 | 1.7 | 1.0 | 2.0 | 3.3 | 1.1 | 1.3 | 1.5 | 2.0 | 1.0 |
| ND07-3381 | 1.6 | 1.0 | 1.5 | 3.0 | 1.0 | 1.1 | 1.0 | 2.0 | 2.0 |
| ND07-3772 | 1.5 | 1.0 | 1.0 | 2.7 | 1.3 | 1.0 | 1.3 | 2.0 | 2.0 |
| ND07-3947 | 1.6 | 1.0 | 2.0 | 3.3 | 1.0 | 1.1 | 1.0 | 2.0 | 1.0 |
| ND07-4069 | 1.5 | 1.0 | 2.0 | 3.0 | 1.1 | 1.0 | 1.0 | 2.0 | 1.0 |
| OAC 08-11C | 1.6 | 1.0 | 3.0 | 2.8 | 1.5 | 1.2 | 1.0 | 1.0 | 1.0 |
| SD07CV-528 | 1.6 | 1.0 | 1.5 | 3.7 | 1.5 | 1.0 | 1.3 | 2.0 | 1.0 |
| SD07CV-539 | 1.5 | 1.0 | 1.5 | 2.7 | 2.0 | 1.0 | 1.0 | 2.0 | 1.0 |
| SD07CV-935 | 1.4 | 1.0 | 2.0 | 2.0 | 1.4 | 1.0 | 1.0 | 2.0 | 1.0 |

PRELIMINARY TEST 0, 2010

PLANT HEIGHT (inches)

| Strain | Mean 8 Tests | Morris MN | Rosemount MN | Casselton ND | St. Pauls ONT | Woodstock ONT | St. Mathieu de-Beloeil Que. | Aurora SD | Bristol SD |
|--------------|--------------------|--------------|-----------------|-----------------|------------------|------------------|-----------------------------------|--------------|---------------|
| Sheyenne (O) | 34 | 28 | 38 | 37 | 32 | 35 | 36 | 39 | 25 |
| MN1410 (I) | 38 | 33 | 40 | 37 | 43 | 38 | 38 | 43 | 31 |
| Surge (L) | 34 | 31 | 37 | 34 | 35 | 31 | 36 | 44 | 23 |
| MN0095 (E) | 28 | 21 | 31 | 32 | 28 | 29 | 30 | 34 | 21 |
| M02-399012 | 34 | 27 | 37 | 34 | 39 | 33 | 36 | 38 | 26 |
| M04-229039 | 37 | 35 | 45 | 36 | 40 | 32 | 41 | 39 | 31 |
| M04-254003 | 38 | 30 | 44 | 38 | 42 | 36 | 43 | 42 | 31 |
| M04-267028 | 34 | 33 | 35 | 36 | 35 | 32 | 38 | 37 | 22 |
| M04-338008 | 35 | 32 | 39 | 36 | 37 | 30 | 36 | 38 | 29 |
| M04-340048 | 41 | 37 | 43 | 37 | 46 | 44 | 37 | 43 | 38 |
| M04-380030 | 36 | 35 | 41 | 33 | 41 | 33 | 40 | 39 | 29 |
| M05-180-4029 | 32 | 30 | 36 | 34 | 35 | 31 | 34 | 28 | 25 |
| M05-182007 | 32 | 30 | 32 | 35 | 32 | 30 | 32 | 34 | 28 |
| ND03-5441 | 32 | 31 | 32 | 32 | 35 | 30 | 34 | 35 | 23 |
| ND07-3761 | 30 | 28 | 32 | 33 | 28 | 29 | 32 | 33 | 25 |
| ND07-1721 | 33 | 28 | 39 | 38 | 33 | 28 | 36 | 36 | 28 |
| ND07-1831 | 36 | 31 | 38 | 37 | 39 | 37 | 38 | 40 | 30 |
| ND07-1855 | 33 | 28 | 36 | 35 | 35 | 31 | 38 | 35 | 28 |
| ND07-2024 | 36 | 32 | 39 | 39 | 38 | 34 | 38 | 43 | 28 |
| ND07-2222 | 32 | 29 | 34 | 36 | 33 | 34 | 31 | 33 | 28 |
| ND07-2239 | 31 | 25 | 37 | 30 | 33 | 35 | 31 | 31 | 22 |
| ND07-2303 | 33 | 32 | 37 | 32 | 32 | 32 | 34 | 34 | 28 |
| ND07-2317 | 29 | 27 | 34 | 33 | 32 | 23 | 31 | 29 | 25 |
| ND07-2343 | 38 | 33 | 43 | 35 | 42 | 38 | 39 | 45 | 26 |
| ND07-3292 | 37 | 32 | 40 | 37 | 41 | 40 | 35 | 42 | 31 |
| ND07-3376 | 36 | 33 | 41 | 37 | 34 | 34 | 37 | 38 | 32 |
| ND07-3381 | 32 | 28 | 38 | 35 | 32 | 30 | 35 | 37 | 24 |
| ND07-3772 | 36 | 35 | 40 | 36 | 39 | 32 | 35 | 40 | 30 |
| ND07-3947 | 33 | 32 | 36 | 35 | 34 | 29 | 35 | 38 | 25 |
| ND07-4069 | 32 | 27 | 33 | 34 | 33 | 30 | 35 | 37 | 24 |
| OAC 08-11C | 33 | 29 | 35 | 36 | 31 | 34 | 35 | 38 | 27 |
| SD07CV-528 | 38 | 33 | 43 | 36 | 42 | 33 | 38 | 44 | 35 |
| SD07CV-539 | 33 | 31 | 39 | 34 | 36 | 31 | 33 | 37 | 23 |
| SD07CV-935 | 35 | 29 | 40 | 37 | 38 | 34 | 37 | 38 | 29 |

PRELIMINARY TEST 0, 2010

SEED QUALITY (score)

| Strain | Mean 8 Tests | Morris MN | Rosemount MN | Casselton ND | St. Pauls ONT | Woodstock ONT | St. Mathieu de-Beloeil Que. | Aurora SD | Bristol SD |
|--------------|--------------------|--------------|-----------------|-----------------|------------------|------------------|-----------------------------------|--------------|---------------|
| Sheyenne (O) | 1.5 | 2.0 | 1.0 | 1.0 | 2.0 | 1.0 | 2.0 | 1.0 | 2.0 |
| MN1410 (I) | 1.2 | 1.0 | 1.0 | 1.0 | 1.5 | 1.0 | 2.0 | 1.0 | 1.0 |
| Surge (L) | 1.7 | 1.0 | 1.0 | 1.0 | 1.5 | 1.0 | 3.0 | 3.0 | 2.0 |
| MN0095 (E) | 1.4 | 1.0 | 1.0 | 1.0 | 1.5 | 1.0 | 1.5 | 2.0 | 2.0 |
| M02-399012 | 1.4 | 1.0 | 1.0 | 1.0 | 1.5 | 1.0 | 2.0 | 2.0 | 2.0 |
| M04-229039 | 1.8 | 2.0 | 1.0 | 1.0 | 2.0 | 1.5 | 2.0 | 2.0 | 3.0 |
| M04-254003 | 1.4 | 1.0 | 1.0 | 1.0 | 1.5 | 1.0 | 2.0 | 2.0 | 2.0 |
| M04-267028 | 1.3 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 2.0 | 2.0 | 1.0 |
| M04-338008 | 1.5 | 2.0 | 1.0 | 1.0 | 1.0 | 1.0 | 2.0 | 2.0 | 2.0 |
| M04-340048 | 2.1 | 1.0 | 1.0 | 1.0 | 1.5 | 1.0 | 3.5 | 4.0 | 4.0 |
| M04-380030 | 1.4 | 1.0 | 1.0 | 1.0 | 1.5 | 1.0 | 2.0 | 1.0 | 3.0 |
| M05-180-4029 | 1.9 | 2.0 | 1.0 | 1.0 | 1.5 | 1.0 | 3.0 | 3.0 | 3.0 |
| M05-182007 | 1.6 | 1.0 | 1.0 | 1.0 | 1.5 | 1.5 | 2.5 | 2.0 | 2.0 |
| ND03-5441 | 1.5 | 1.0 | 1.0 | 1.0 | 2.0 | 1.0 | 2.0 | 2.0 | 2.0 |
| ND07-3761 | 1.4 | 1.0 | 1.0 | 1.0 | 1.5 | 1.0 | 1.5 | 2.0 | 2.0 |
| ND07-1721 | 1.2 | 1.0 | 1.0 | 1.0 | 1.5 | 1.0 | 1.0 | 1.0 | 2.0 |
| ND07-1831 | 1.3 | 1.0 | 1.0 | 1.0 | 1.5 | 1.0 | 1.5 | 1.0 | 2.0 |
| ND07-1855 | 1.4 | 1.0 | 1.0 | 1.0 | 2.0 | 1.0 | 2.0 | 1.0 | 2.0 |
| ND07-2024 | 1.6 | 1.0 | 1.0 | 1.0 | 1.5 | 1.0 | 2.5 | 2.0 | 3.0 |
| ND07-2222 | 1.4 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 2.0 | 2.0 | 2.0 |
| ND07-2239 | 1.7 | 2.0 | 1.0 | 1.0 | 1.5 | 1.0 | 2.0 | 3.0 | 2.0 |
| ND07-2303 | 1.5 | 1.0 | 1.0 | 1.0 | 2.0 | 1.0 | 2.0 | 2.0 | 2.0 |
| ND07-2317 | 1.2 | 1.0 | 1.0 | 1.0 | 1.5 | 1.0 | 2.0 | 1.0 | 1.0 |
| ND07-2343 | 1.4 | 1.0 | 1.0 | 1.0 | 1.5 | 1.0 | 2.0 | 2.0 | 2.0 |
| ND07-3292 | 2.1 | 1.0 | 1.0 | 1.0 | 2.0 | 1.5 | 4.0 | 2.0 | 4.0 |
| ND07-3376 | 1.4 | 1.0 | 1.0 | 1.0 | 1.5 | 1.0 | 2.0 | 2.0 | 2.0 |
| ND07-3381 | 1.5 | 1.0 | 1.0 | 1.0 | 2.0 | 1.0 | 2.0 | 2.0 | 2.0 |
| ND07-3772 | 1.6 | 1.0 | 1.0 | 1.0 | 2.0 | 1.0 | 2.5 | 2.0 | 2.0 |
| ND07-3947 | 1.6 | 1.0 | 1.0 | 1.0 | 1.5 | 1.0 | 2.0 | 3.0 | 2.0 |
| ND07-4069 | 1.2 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.5 | 1.0 | 2.0 |
| OAC 08-11C | 1.5 | 1.0 | 1.0 | 1.0 | 2.0 | 1.0 | 2.0 | 2.0 | 2.0 |
| SD07CV-528 | 1.4 | 1.0 | 1.0 | 1.0 | 1.5 | 1.5 | 2.5 | 1.0 | 2.0 |
| SD07CV-539 | 1.6 | 1.0 | 1.0 | 1.0 | 1.5 | 1.0 | 2.0 | 3.0 | 2.0 |
| SD07CV-935 | 1.5 | 1.0 | 1.0 | 1.0 | 1.5 | 1.0 | 1.5 | 2.0 | 3.0 |

PRELIMINARY TEST 0, 2010

SEED SIZE (g/100)

| Strain | Mean 8 Tests | Morris MN | Rosemount MN | Casselton ND | St. Pauls ONT | Woodstock ONT | St. Mathieu de-Beloeil Que. | Aurora SD | Bristol SD |
|--------------|--------------------|--------------|-----------------|-----------------|------------------|------------------|-----------------------------------|--------------|---------------|
| Sheyenne (O) | 15.5 | 15.3 | 13.8 | 14.8 | 18.2 | 15.6 | 17.3 | 15.4 | 13.3 |
| MN1410 (I) | 15.9 | 16.6 | 14.7 | 15.9 | 16.4 | 16.4 | 18.2 | 15.3 | 13.7 |
| Surge (L) | 19.5 | 21.8 | 17.8 | 18.5 | 21.5 | 19.3 | 22.2 | 18.7 | 16.1 |
| MN0095 (E) | 13.9 | 13.7 | 11.7 | 13.9 | 15.9 | 13.9 | 15.3 | 13.8 | 13.1 |
| M02-399012 | 13.7 | 13.4 | 13.3 | 12.5 | 16.1 | 13.6 | 16.0 | 13.2 | 11.2 |
| M04-229039 | 18.3 | 18.2 | 18.5 | 16.9 | 21.9 | 17.7 | 20.2 | 16.9 | 16.3 |
| M04-254003 | 17.2 | 14.8 | 16.7 | 16.9 | 20.0 | 17.8 | 19.5 | 15.8 | 16.2 |
| M04-267028 | 16.7 | 17.1 | 15.2 | 15.4 | 19.9 | 16.9 | 18.9 | 16.1 | 13.8 |
| M04-338008 | 14.2 | 13.8 | 15.3 | 13.0 | 14.2 | 14.6 | 16.1 | 13.7 | 12.9 |
| M04-340048 | 13.5 | 13.6 | 12.5 | 13.1 | 15.4 | 14.3 | 15.0 | 12.2 | 12.1 |
| M04-380030 | 14.3 | 13.7 | 13.7 | 13.5 | 17.0 | 14.0 | 15.7 | 14.1 | 12.3 |
| M05-180-4029 | 13.7 | 14.5 | 11.8 | 13.8 | 16.1 | 13.2 | 15.5 | 13.1 | 11.8 |
| M05-182007 | 14.6 | 15.1 | 14.6 | 13.5 | 16.8 | 12.9 | 16.5 | 13.1 | 14.3 |
| ND03-5441 | 14.9 | 15.8 | 15.1 | 13.0 | 17.8 | 14.5 | 16.7 | 14.6 | 11.5 |
| ND07-3761 | 15.7 | 14.7 | 14.8 | 14.4 | 18.8 | 15.3 | 18.1 | 15.5 | 13.6 |
| ND07-1721 | 14.8 | 15.1 | 14.7 | 14.8 | 16.5 | 13.4 | 16.6 | 14.1 | 13.3 |
| ND07-1831 | 17.3 | 16.6 | 16.6 | 12.4 | 21.7 | 17.5 | 19.8 | 18.0 | 15.5 |
| ND07-1855 | 17.6 | 16.5 | 16.4 | 17.9 | 19.4 | 18.0 | 19.6 | 17.2 | 16.1 |
| ND07-2024 | 13.4 | 13.0 | 13.9 | 12.7 | 14.6 | 13.6 | 13.8 | 13.1 | 12.8 |
| ND07-2222 | 13.6 | 14.0 | 11.7 | 13.9 | 14.8 | 13.1 | 15.2 | 13.3 | 12.7 |
| ND07-2239 | 16.0 | 17.8 | 13.3 | 14.9 | 18.2 | 15.9 | 17.9 | 15.7 | 14.4 |
| ND07-2303 | 11.8 | 14.0 | 13.1 | 12.5 | 14.8 | 13.1 | 15.1 | 12.6 | 11.8 |
| ND07-2317 | 14.4 | 14.4 | 13.6 | 12.9 | 15.9 | 13.7 | 17.1 | 14.0 | 13.3 |
| ND07-2343 | 15.2 | 15.7 | 15.5 | 14.3 | 16.4 | 14.2 | 17.3 | 14.9 | 13.3 |
| ND07-3292 | 14.4 | 14.4 | 12.7 | 12.5 | 18.2 | 14.0 | 16.4 | 15.2 | 12.0 |
| ND07-3376 | 14.7 | 14.9 | 13.6 | 13.9 | 16.7 | 13.4 | 17.5 | 14.4 | 13.5 |
| ND07-3381 | 15.3 | 15.2 | 13.9 | 14.9 | 17.2 | 14.9 | 17.3 | 14.6 | 14.6 |
| ND07-3772 | 16.0 | 14.6 | 15.7 | 14.1 | 19.7 | 17.0 | 17.9 | 15.1 | 13.6 |
| ND07-3947 | 17.1 | 17.7 | 12.9 | 16.8 | 19.0 | 16.6 | 19.6 | 17.0 | 16.9 |
| ND07-4069 | 15.5 | 14.6 | 14.3 | 14.9 | 17.8 | 14.0 | 18.1 | 15.3 | 15.1 |
| OAC 08-11C | 15.9 | 15.4 | 15.4 | 14.8 | 18.4 | 15.7 | 17.5 | 15.7 | 14.1 |
| SD07CV-528 | 13.3 | 13.9 | 11.4 | 12.1 | 14.3 | 13.0 | 15.0 | 13.8 | 13.0 |
| SD07CV-539 | 15.1 | 15.3 | 14.4 | 14.3 | 16.7 | 14.2 | 16.1 | 14.5 | 15.0 |
| SD07CV-935 | 14.9 | 16.2 | 13.8 | 14.6 | 16.9 | 15.3 | 17.3 | 12.8 | 12.3 |

PRELIMINARY TEST 0, 2010

PROTEIN (%)

| Strain | Mean 7 Tests | Morris MN | Rosemount MN | Casselton ND | St. Pauls ONT | Woodstock ONT | Aurora SD | St. Mathieu de-Beloeil Que. |
|--------------|--------------------|--------------|-----------------|-----------------|------------------|------------------|--------------|-----------------------------------|
| Sheyenne (O) | 33.8 | 34.3 | 34.6 | 31.1 | 35.5 | 34.5 | 33.3 | 33.4 |
| MN1410 (I) | 35.4 | 35.1 | 35.5 | 34.6 | 36.4 | 36.2 | 35.8 | 34.4 |
| Surge (L) | 36.2 | 35.4 | 35.2 | 35.5 | 37.4 | 37.3 | 35.6 | 36.9 |
| MN0095 (E) | 35.0 | 33.7 | 35.6 | 32.9 | 36.9 | 36.0 | 35.2 | 35.0 |
| M02-399012 | 36.1 | 34.9 | 35.8 | 35.2 | 38.5 | 37.6 | 34.9 | 35.9 |
| M04-229039 | 36.4 | 35.3 | 38.0 | 34.2 | 38.2 | 37.3 | 35.2 | 36.3 |
| M04-254003 | 35.3 | 35.1 | 36.8 | 32.5 | 37.0 | 36.2 | 35.0 | 34.7 |
| M04-267028 | 35.5 | 33.6 | 36.3 | 32.6 | 38.1 | 37.8 | 34.9 | 35.1 |
| M04-338008 | 36.1 | 35.4 | 36.4 | 34.7 | 38.3 | 36.6 | 35.7 | 35.9 |
| M04-340048 | 35.6 | 34.4 | 35.1 | 33.8 | 38.1 | 37.1 | 34.6 | 36.4 |
| M04-380030 | 35.6 | 34.5 | 35.8 | 34.6 | 37.6 | 37.1 | 34.8 | 34.7 |
| M05-180-4029 | 35.9 | 34.0 | 36.5 | 35.2 | 37.5 | 36.7 | 35.4 | 35.8 |
| M05-182007 | 35.1 | 33.5 | 35.6 | 33.6 | 37.0 | 37.0 | 33.5 | 35.5 |
| ND03-5441 | 34.9 | 34.1 | 35.7 | 32.0 | 37.6 | 35.8 | 34.6 | 34.8 |
| ND07-3761 | 32.6 | 31.9 | 34.4 | 31.3 | 34.5 | 31.3 | 32.6 | 31.8 |
| ND07-1721 | 33.7 | 34.7 | 35.1 | 32.2 | 34.5 | 33.7 | 33.5 | 32.5 |
| ND07-1831 | 34.4 | 33.9 | 34.2 | 33.1 | 35.8 | 34.6 | 35.6 | 33.6 |
| ND07-1855 | 34.3 | 34.3 | 35.1 | 34.4 | 35.3 | 33.9 | 33.1 | 34.2 |
| ND07-2024 | 32.8 | 32.0 | 34.5 | 29.8 | 34.6 | 33.5 | 33.2 | 31.9 |
| ND07-2222 | 30.2 | 32.2 | 35.0 | 32.4 | 36.3 | 8.8 | 32.9 | 33.7 |
| ND07-2239 | 33.9 | 32.5 | 34.4 | 32.0 | 35.7 | 34.9 | 33.8 | 34.2 |
| ND07-2303 | 33.5 | 32.8 | 34.2 | 30.8 | 35.8 | 34.5 | 32.7 | 33.5 |
| ND07-2317 | 32.4 | 31.9 | 33.8 | 30.0 | 33.7 | 32.9 | 33.2 | 31.5 |
| ND07-2343 | 33.1 | 33.6 | 34.4 | 30.8 | 34.2 | 33.4 | 32.8 | 32.6 |
| ND07-3292 | 33.3 | 32.3 | 34.4 | 32.1 | 34.9 | 34.4 | 33.0 | 31.9 |
| ND07-3376 | 33.2 | 34.1 | 34.1 | 30.7 | 34.4 | 33.7 | 32.8 | 32.6 |
| ND07-3381 | 33.9 | 33.1 | 35.1 | 31.7 | 35.2 | 34.8 | 33.9 | 33.1 |
| ND07-3772 | 35.2 | 35.2 | 35.1 | 33.6 | 37.2 | 35.8 | 33.8 | 35.4 |
| ND07-3947 | 36.9 | 35.5 | 36.5 | 35.4 | 39.0 | 37.9 | 36.9 | 36.8 |
| ND07-4069 | 33.6 | 32.4 | 34.6 | 31.1 | 35.3 | 34.6 | 33.9 | 33.4 |
| OAC 08-11C | 35.8 | 35.0 | 36.6 | 32.4 | 38.8 | 37.1 | 35.4 | 35.2 |
| SD07CV-528 | 34.6 | 34.8 | 35.0 | 32.3 | 36.5 | 35.2 | 34.4 | 33.9 |
| SD07CV-539 | 33.8 | 34.6 | 34.1 | 32.4 | 34.9 | 34.5 | 33.6 | 32.5 |
| SD07CV-935 | 36.0 | 35.7 | 36.4 | 34.5 | 36.7 | 37.0 | 35.2 | 36.3 |

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

PRELIMINARY TEST 0, 2010

OIL (%)

| Strain | Mean 7 Tests | Morris MN | Rosemount MN | Casselton ND | St. Pauls ONT | Woodstock ONT | Aurora SD | St. Mathieu de-Beloil Que. |
|--------------|--------------------|--------------|-----------------|-----------------|------------------|------------------|--------------|----------------------------------|
| Sheyenne (O) | 19.3 | 18.2 | 17.7 | 20.0 | 24.4 | 18.2 | 19.2 | 17.4 |
| MN1410 (I) | 18.0 | 17.6 | 18.0 | 17.7 | 18.4 | 17.7 | 18.4 | 18.0 |
| Surge (L) | 18.1 | 17.7 | 17.6 | 19.0 | 18.4 | 18.0 | 18.8 | 17.0 |
| MN0095 (E) | 18.3 | 18.3 | 17.4 | 19.3 | 18.2 | 18.3 | 18.6 | 18.0 |
| M02-399012 | 17.2 | 16.7 | 16.3 | 18.3 | 17.3 | 17.4 | 18.0 | 16.4 |
| M04-229039 | 17.2 | 16.9 | 16.3 | 17.7 | 17.5 | 17.3 | 18.4 | 16.6 |
| M04-254003 | 18.1 | 17.4 | 18.2 | 19.2 | 17.8 | 17.9 | 18.7 | 17.2 |
| M04-267028 | 18.1 | 18.5 | 16.7 | 19.4 | 17.7 | 17.7 | 18.9 | 18.0 |
| M04-338008 | 17.4 | 18.5 | 16.1 | 16.7 | 17.7 | 18.1 | 17.4 | 17.2 |
| M04-340048 | 17.1 | 16.8 | 16.0 | 17.1 | 17.6 | 17.8 | 17.5 | 16.6 |
| M04-380030 | 17.8 | 17.1 | 17.2 | 19.0 | 18.0 | 17.7 | 18.1 | 17.5 |
| M05-180-4029 | 17.3 | 17.2 | 15.8 | 17.8 | 18.1 | 18.1 | 17.2 | 16.8 |
| M05-182007 | 18.7 | 18.7 | 18.4 | 19.7 | 18.6 | 17.9 | 19.3 | 18.1 |
| ND03-5441 | 17.8 | 17.2 | 16.9 | 19.6 | 17.5 | 17.7 | 18.5 | 17.3 |
| ND07-3761 | 19.1 | 18.7 | 18.6 | 20.5 | 18.8 | 18.8 | 20.0 | 18.7 |
| ND07-1721 | 18.8 | 18.3 | 18.1 | 19.1 | 19.0 | 19.1 | 19.5 | 18.4 |
| ND07-1831 | 18.5 | 18.4 | 18.2 | 19.2 | 18.0 | 18.3 | 19.4 | 17.7 |
| ND07-1855 | 18.4 | 18.5 | 17.9 | 18.2 | 18.4 | 18.9 | 19.3 | 17.7 |
| ND07-2024 | 18.3 | 17.3 | 18.1 | 19.1 | 18.6 | 18.7 | 18.5 | 17.9 |
| ND07-2222 | 18.8 | 19.0 | 17.6 | 18.9 | 18.7 | 19.0 | 19.6 | 18.7 |
| ND07-2239 | 18.8 | 18.7 | 18.0 | 20.3 | 18.7 | 18.8 | 19.4 | 18.1 |
| ND07-2303 | 18.8 | 18.1 | 18.2 | 19.8 | 18.7 | 19.1 | 19.3 | 18.3 |
| ND07-2317 | 19.5 | 18.9 | 18.6 | 20.3 | 19.6 | 19.6 | 20.2 | 19.0 |
| ND07-2343 | 17.4 | 16.5 | 16.6 | 17.8 | 17.4 | 18.4 | 18.1 | 16.6 |
| ND07-3292 | 18.2 | 17.0 | 16.9 | 19.2 | 19.1 | 19.0 | 18.3 | 18.0 |
| ND07-3376 | 18.3 | 17.8 | 17.7 | 19.0 | 18.5 | 18.1 | 19.2 | 17.6 |
| ND07-3381 | 18.1 | 17.6 | 17.9 | 18.7 | 18.2 | 18.1 | 18.8 | 17.4 |
| ND07-3772 | 18.3 | 17.9 | 17.8 | 18.8 | 18.4 | 18.5 | 19.1 | 17.4 |
| ND07-3947 | 17.8 | 17.7 | 17.6 | 18.9 | 17.6 | 17.7 | 17.9 | 17.5 |
| ND07-4069 | 19.4 | 18.7 | 18.5 | 22.2 | 19.2 | 19.1 | 19.5 | 18.8 |
| OAC 08-11C | 17.5 | 17.8 | 16.0 | 18.5 | 17.1 | 17.7 | 18.3 | 16.9 |
| SD07CV-528 | 18.6 | 18.1 | 18.1 | 19.6 | 18.8 | 18.9 | 18.6 | 18.3 |
| SD07CV-539 | 18.7 | 18.9 | 18.5 | 19.3 | 18.5 | 18.5 | 19.3 | 18.2 |
| SD07CV-935 | 17.8 | 17.5 | 18.5 | 17.7 | 17.9 | 17.7 | 18.0 | 17.2 |

Uniform Test I, 2010

| Ent. | Strain | Parentage | Seed Source | Previous Testing | Gen. Comp. | Unique Traits |
|------|--------------|-------------------------------------|-------------|------------------|------------|---------------|
| 1. | MN1410 (I) | MN0302 x Archer | Orf | 5 | F5 | Rps1k, BSR |
| 2. | IA1022 (SCN) | Dairyland 98822 x A00-711024 | Fehr | 4 | F5 | SCN |
| 3. | Sheyenne (0) | Pioneer 9071 x A96-492041 | Helms | 3 | F4 | Rps1-c |
| 4. | A07-427027 | A02-136021 x Dairyland 99733 | Fehr | 09UTII | F4 | |
| 5. | A08-151002 | IA1021 x Syngenta M815869 | Fehr | PTI | F4 | |
| 6. | A08-151024 | A04-545045 x AgriPro 98180-A01-0613 | Fehr | PTI | F4 | |
| 7. | A08-151031 | AgriPro 97144-A00-19136 x IA1023 | Fehr | PTI | F4 | |
| 8. | A08-151033 | IA1023 x IA1021 | Fehr | PTI | F4 | |
| 9. | A08-152041 | LD00-4970 x IA1021 | Fehr | PIIA | F4 | |
| 10. | AR07-175064 | Golden Harvest X33686 x S18-N5 | Cianzio | 1 | F4 | SCN |
| 11. | AR08-186008 | Garst H-2285 x AR02-101001 | Cianzio | PTI | F3 | BSR |
| 12. | M02-385041 | MN0902CN X M95-255017 | Orf | 09 SCN UTI | F5 | SCN 88788 |
| 13. | M02-385091 | MN0902CN X M95-255017 | Orf | 09 SCN UTI | F5 | SCN Peking |
| 14. | M03-165068 | NE1900 x MN0304 | Orf | PTI | F5 | Rps1k |
| 15. | M03-172059 | IA2052 x MN0304 | Orf | PTI | F5 | Rps1k |
| 16. | OAC 07-48C | PS 73 x OAC Wallace | Rajcan | PTI | F5 | |
| 17. | SD05-240 | A00-711063 x SD98-595 | Green | 1 | F10 | |
| 18. | SD06-535 | SD99-469 x SD99-36 | Green | 09 PT0 | F9 | |

UNIFORM TEST I, 2010

DESCRIPTIVE AND DISEASE DATA

| Strain | Descriptive Code | <u>Chlorosis</u> | | <u>Shattering</u> | <u>Green Stem</u> |
|--------------|------------------|------------------|---------------|-------------------|-------------------|
| | | Score | | Score | Score |
| | | Humboldt IA | Danvers MN | Manhattan KS | Lafayette IN |
| MN1410 (I) | WGBDYBfI | 3.2 | 1.5 | 3.0 | 1.0 |
| IA1022 (SCN) | PGTIYYI | 3.0 | 2.5 | 3.0 | 1.0 |
| Sheyenne (O) | PGBDYI | 2.5 | 1.5 | 3.0 | 1.0 |
| A07-427027 | PGBDYI | 2.8 | 2.0 | 2.0 | 1.0 |
| A08-151002 | PLtTDYBr+YI | 3.0 | 1.8 | 1.0 | 1.0 |
| A08-151024 | WGTDYI | 2.8 | 2.5 | 2.0 | 1.0 |
| A08-151031 | P+WTTDYI | 2.8 | 1.8 | 3.0 | 1.0 |
| A08-151033 | PGBDYI | 2.8 | 2.8 | 3.0 | 1.0 |
| A08-152041 | PGBDYI | 3.3 | 2.0 | 2.0 | 1.0 |
| AR07-175064 | PGBDYbI | 3.3 | 2.8 | 2.0 | 1.0 |
| AR08-186008 | PTBDYBI | 3.0 | 3.5 | 3.0 | 1.0 |
| M02-385041 | PTTIYYI | 2.9 | 2.5 | 2.0 | 1.0 |
| M02-385091 | P+WTTDYBI+BrI | 2.9 | 1.5 | 2.0 | 1.0 |
| M03-165068 | WGTDYBI+YI | 2.8 | 1.8 | 5.0 | 1.0 |
| M03-172059 | WGTDYBfI | 2.9 | 2.8 | 5.0 | 1.0 |
| OAC 07-48C | PTTIYYI | 2.9 | 1.5 | 3.0 | 1.0 |
| SD05-240 | PGTDYBI | 2.8 | 2.3 | 2.0 | 1.0 |
| SD06-535 | PTBDYBrI | 2.9 | 2.5 | 2.0 | 1.0 |

UNIFORM TEST I, 2010

DESCRIPTIVE AND DISEASE DATA

| Strain | PR Lafayette | | FE | SDS |
|------------------|-----------------|-----------|------------------|--------------------|
| | Race 4 | Race 7 | Laf. a rx. | DX Havana IL |
| MN1410 (I) | S* | S* | S | 1 |
| IA1022 (SCN) | S | S | S | 2 |
| Sheyenne (0) | S | R | - | 1 |
| A07-427027 | S | S | S | 11 |
| A08-151002 | S | S | S | 3 |
| A08-151024 | S | S | S | 6 |
| A08-151031 | S | R* | S | 1 |
| A08-151033 | S | S | S | 3 |
| A08-152041 | S | S | S | 1 |
| AR07-175064 | S | S | S | 1 |
| AR08-186008 | S | S | S | 0 |
| M02-385041 | S | x | S | 0 |
| M02-385091 | R* | H* | S | 0 |
| M03-165068 | R | R | S | 0 |
| M03-172059 | R | R | - | 0 |
| OAC 07-48C | S | S | S | 1 |
| SD05-240 | R* | R* | S | 5 |
| SD06-535 | R* | R* | S | 0 |
| AR10SDS (res) | | | | 0 |
| M00-456052 (res) | | | | 0 |
| M97-357138 (sus) | | | | 1 |
| Myc5171RR (sus) | | | | 24 |
| LSD | | | | 10 |

PR: * = *P. sojae* inoc. Reaction NOT compatible with breeder's information about *Rps* Trait

FE: S = susceptible, - = lesions not detected, x = no data

UNIFORM TEST I, 2010

REGIONAL SUMMARY

| No. of Tests Strain | Yield 14 bu/a | Rank 14 No. | Maturity 13 Date | Lodging 15 Score | Plant Height 14 In. | Seed Quality 9 Score | Seed Size 16 g/100 | Composition | |
|------------------------|---------------------|-------------------|------------------------|------------------------|------------------------------|-------------------------------|-----------------------------|--------------------|----------------|
| | | | | | | | | Protein 10 % | Oil 10 % |
| MN1410 (I) | 59.7 | 12 | 9/14 | 1.8 | 36 | 1.6 | 15.4 | 35.1 | 18.5 |
| IA1022 (SCN) | 61.6 | 8 | 3.7 | 1.8 | 35 | 1.3 | 14.1 | 33.5 | 19.2 |
| Shyenne (0) | 52.5 | 18 | -5.8 | 1.3 | 31 | 1.7 | 15.7 | 34.2 | 18.7 |
| A07-427027 | 64.0 | 2 | 6.0 | 1.3 | 36 | 1.4 | 14.5 | 34.2 | 17.9 |
| A08-151002 | 61.3 | 9 | 3.3 | 1.3 | 33 | 1.6 | 12.7 | 34.1 | 17.6 |
| A08-151024 | 63.2 | 3 | 3.3 | 1.3 | 37 | 1.3 | 14.9 | 35.8 | 17.9 |
| A08-151031 | 62.9 | 4 | 2.2 | 1.8 | 38 | 1.5 | 15.3 | 34.5 | 17.7 |
| A08-151033 | 62.6 | 5 | 5.3 | 1.7 | 34 | 1.3 | 16.2 | 34.5 | 17.8 |
| A08-152041 | 59.9 | 11 | 7.0 | 1.5 | 38 | 1.2 | 14.4 | 34.6 | 17.9 |
| AR07-175064 | 61.9 | 6 | 3.6 | 1.5 | 37 | 1.1 | 17.0 | 34.8 | 18.0 |
| AR08-186008 | 66.2 | 1 | 3.8 | 1.4 | 35 | 1.3 | 14.3 | 34.8 | 17.7 |
| M02-385041 | 54.8 | 15 | -1.9 | 1.7 | 34 | 1.5 | 13.3 | 34.0 | 18.2 |
| M02-385091 | 54.6 | 16 | -1.0 | 1.6 | 35 | 1.7 | 14.5 | 35.2 | 17.8 |
| M03-165068 | 60.7 | 10 | -1.7 | 1.5 | 31 | 1.6 | 14.0 | 34.4 | 18.2 |
| M03-172059 | 57.8 | 13 | -4.4 | 1.3 | 33 | 1.6 | 15.3 | 34.2 | 18.7 |
| OAC 07-48C | 56.3 | 14 | 2.0 | 1.3 | 35 | 1.5 | 15.8 | 32.4 | 19.0 |
| SD05-240 | 61.9 | 6 | 3.8 | 1.7 | 36 | 1.1 | 14.9 | 34.1 | 18.4 |
| SD06-535 | 52.9 | 17 | 0.1 | 1.4 | 37 | 1.6 | 14.8 | 34.5 | 18.0 |

119.3 Days After Planting

UNIFORM TEST I, 2010

2009-2010 2-YEAR MEAN

| No. of Tests Strain | Yield 29 bu/a | Rank 29 No. | Maturity 26 Date | Lodging 28 Score | Plant Height 25 In. | Seed Quality 17 Score | Seed Size 30 g/100 | Composition | |
|------------------------|---------------------|-------------------|------------------------|------------------------|------------------------------|--------------------------------|-----------------------------|--------------------|----------------|
| | | | | | | | | Protein 20 % | Oil 20 % |
| MN1410 (I) | 58.7 | 4 | 9/16 | 1.5 | 34 | 1.5 | 16.3 | 35.0 | 18.3 |
| IA1022 (SCN) | 59.7 | 2 | 2.8 | 1.5 | 33 | 1.6 | 15.3 | 33.5 | 19.3 |
| Shyenne (0) | 52.1 | 5 | -5.6 | 1.2 | 30 | 2.0 | 16.2 | 34.3 | 18.3 |
| AR07-175064 | 60.8 | 1 | 3.9 | 1.4 | 35 | 1.4 | 18.3 | 34.6 | 17.8 |
| SD05-240 | 59.0 | 3 | 3.3 | 1.5 | 33 | 1.2 | 15.6 | 34.3 | 18.2 |

121.0 Days After Planting

UNIFORM TEST I, 2010

YIELD (bu/a)

| Strain | Mean 14 Tests | Ames IA | Eldora IA | Kanawha IA | Lafayette IN | Wanatah* IN | Ingham* County MI | Saginaw County MI | Lamberton MN |
|---------------|---------------------|------------|--------------|---------------|-----------------|----------------|-------------------------|-------------------------|-----------------|
| MN1410 (I) | 59.7 | 47.5 | 54.2 | 47.0 | 56.9 | 26.4 | 34.9 | 22.9 | 60.3 |
| IA1022 (SCN) | 61.6 | 53.5 | 61.4 | 53.6 | 60.3 | 34.4 | 39.4 | 26.2 | 60.6 |
| Sheyenne (O) | 52.5 | 41.2 | 47.3 | 39.4 | 48.7 | 23.5 | 42.3 | 16.0 | 66.5 |
| A07-427027 | 64.0 | 55.9 | 63.9 | 49.5 | 71.9 | 32.2 | 27.4 | 24.2 | 61.3 |
| A08-151002 | 61.3 | 51.7 | 54.6 | 44.1 | 66.9 | 31.2 | 31.2 | 29.5 | 77.5 |
| A08-151024 | 63.2 | 51.2 | 59.5 | 51.7 | 73.0 | 32.9 | 36.2 | 28.9 | 58.9 |
| A08-151031 | 62.9 | 53.4 | 54.7 | 51.6 | 66.7 | 30.1 | 31.7 | 26.8 | 70.5 |
| A08-151033 | 62.6 | 54.7 | 60.2 | 49.4 | 63.0 | 28.9 | 52.7 | 25.5 | 59.3 |
| A08-152041 | 59.9 | 59.7 | 55.2 | 46.8 | 68.8 | 34.9 | 39.8 | 32.4 | 56.5 |
| AR07-175064 | 61.9 | 61.5 | 61.7 | 49.9 | 65.2 | 35.3 | 45.2 | 34.1 | 60.0 |
| AR08-186008 | 66.2 | 61.4 | 62.5 | 54.0 | 62.0 | 39.1 | 37.2 | 36.6 | 65.7 |
| M02-385041 | 54.8 | 48.8 | 55.7 | 50.7 | 58.2 | 31.8 | 41.3 | 25.9 | 58.6 |
| M02-385091 | 54.6 | 50.5 | 45.9 | 45.3 | 55.3 | 30.2 | 39.6 | 31.6 | 58.4 |
| M03-165068 | 60.7 | 51.0 | 55.3 | 45.5 | 61.7 | 28.3 | 21.7 | 23.4 | 70.9 |
| M03-172059 | 57.8 | 45.6 | 57.4 | 41.5 | 55.3 | 31.0 | 28.4 | 27.4 | 63.1 |
| OAC 07-48C | 56.3 | 37.5 | 46.8 | 43.6 | 55.1 | 28.5 | 27.1 | 26.4 | 56.8 |
| SD05-240 | 61.9 | 58.2 | 57.5 | 46.5 | 58.0 | 33.6 | 33.8 | 29.1 | 70.0 |
| SD06-535 | 52.9 | 45.3 | 42.1 | 41.4 | 43.4 | 26.9 | 43.5 | 28.2 | 50.7 |
| Location Mean | | 51.6 | 55.3 | 47.3 | 60.6 | 31.1 | 36.3 | 27.5 | 62.5 |
| C.V. (%) | | 6.6 | 7.8 | 11.0 | 6.7 | 15.2 | 16.3 | 8.9 | 8.1 |
| L.S.D. (5%) | | 7.2 | 9.1 | 12.9 | 6.7 | 10.1 | 10.3 | 4.3 | 8.2 |
| Row Sp. (In.) | | 27 | 27 | 30 | 30 | 30 | 15 | 15 | 10 |
| Rows/Plot | | 4 | 4 | 4 | 4 | 4 | 6 | 6 | 10 |
| Reps | | 2 | 2 | 2 | 3 | 3 | 2 | 2 | 3 |

*Data not included in mean.

UNIFORM TEST I, 2010

YIELD (bu/a)

| Strain | Waseca MN | Beemer NE | Cotesfield NE | Phillips NE | Chatham ONT | St. Hyacinthe Que. | Aurora SD | Watertown SD |
|---------------|--------------|--------------|------------------|----------------|----------------|--------------------------|--------------|-----------------|
| MN1410 (I) | 59.4 | 72.9 | 79.8 | 100.7 | 73.4 | 72.4 | 52.2 | 36.4 |
| IA1022 (SCN) | 60.8 | 72.2 | 81.8 | 88.5 | 77.6 | 71.7 | 53.6 | 40.4 |
| Sheyenne (O) | 55.2 | 62.1 | 53.0 | 75.6 | 69.4 | 72.6 | 49.6 | 37.8 |
| A07-427027 | 65.0 | 77.5 | 83.1 | 103.2 | 76.8 | 72.4 | 59.1 | 32.5 |
| A08-151002 | 58.9 | 72.2 | 86.2 | 92.9 | 70.9 | 63.1 | 56.2 | 34.2 |
| A08-151024 | 53.8 | 76.2 | 90.0 | 98.1 | 71.2 | 76.3 | 54.0 | 42.7 |
| A08-151031 | 65.2 | 74.7 | 89.7 | 90.9 | 76.4 | 71.0 | 55.2 | 34.3 |
| A08-151033 | 64.0 | 72.3 | 92.2 | 92.6 | 75.3 | 69.1 | 55.4 | 42.8 |
| A08-152041 | 54.1 | 66.9 | 81.3 | 86.1 | 76.7 | 67.3 | 56.1 | 30.2 |
| AR07-175064 | 55.8 | 71.4 | 84.0 | 91.4 | 75.4 | 66.2 | 52.5 | 38.1 |
| AR08-186008 | 65.1 | 79.0 | 95.8 | 102.6 | 75.5 | 71.5 | 57.3 | 37.5 |
| M02-385041 | 53.5 | 58.3 | 66.3 | 77.1 | 71.6 | 61.0 | 50.6 | 30.6 |
| M02-385091 | 55.2 | 66.9 | 64.7 | 81.5 | 66.4 | 61.2 | 47.0 | 34.8 |
| M03-165068 | 55.0 | 75.9 | 83.9 | 87.2 | 77.8 | 67.2 | 55.9 | 38.6 |
| M03-172059 | 59.2 | 67.6 | 74.5 | 83.0 | 75.5 | 70.1 | 53.7 | 35.5 |
| OAC 07-48C | 67.1 | 65.3 | 76.1 | 82.8 | 71.5 | 74.0 | 52.1 | 33.6 |
| SD05-240 | 60.3 | 72.5 | 83.9 | 95.8 | 75.6 | 62.8 | 59.1 | 37.8 |
| SD06-535 | 50.8 | 63.0 | 79.6 | 82.0 | 64.6 | 66.3 | 46.0 | 36.9 |
| Location Mean | 58.8 | 70.4 | 80.3 | 89.6 | 73.4 | 68.7 | 53.6 | 36.4 |
| C.V. (%) | 10.6 | 5.8 | 4.3 | 5.0 | 6.3 | 5.8 | 5.1 | 13.6 |
| L.S.D. (5%) | 10.1 | 10.5 | 8.5 | 11.0 | 6.3 | 4.4 | 4.6 | 8.2 |
| Row Sp. (In.) | 10 | 30 | 30 | 30 | 17 | 4.92 | 30 | 30 |
| Rows/Plot | 10 | 4 | 4 | 4 | 5 | 4 | 4 | 4 |
| Reps | 3 | 2 | 2 | 2 | 3 | 3 | 3 | 3 |

UNIFORM TEST I, 2010

YIELD RANK

| Strain | Yield Rank | Ames IA | Eldora IA | Kanawha IA | Lafayette IN | Wanatah IN | Ingham County MI | Saginaw County MI | Lamberton MN |
|--------------|------------|---------|-----------|------------|--------------|------------|------------------|-------------------|--------------|
| MN1410 (I) | 12 | 14 | 14 | 9 | 13 | 17 | 11 | 17 | 10 |
| IA1022 (SCN) | 8 | 7 | 4 | 2 | 10 | 4 | 8 | 12 | 9 |
| Sheyenne (O) | 18 | 17 | 15 | 18 | 17 | 18 | 4 | 18 | 5 |
| A07-427027 | 2 | 5 | 1 | 7 | 2 | 7 | 16 | 15 | 8 |
| A08-151002 | 9 | 9 | 13 | 14 | 4 | 9 | 14 | 5 | 1 |
| A08-151024 | 3 | 10 | 6 | 3 | 1 | 6 | 10 | 7 | 13 |
| A08-151031 | 4 | 8 | 12 | 4 | 5 | 12 | 13 | 10 | 3 |
| A08-151033 | 5 | 6 | 5 | 8 | 7 | 13 | 1 | 14 | 12 |
| A08-152041 | 11 | 3 | 11 | 10 | 3 | 3 | 6 | 3 | 17 |
| AR07-175064 | 6 | 1 | 3 | 6 | 6 | 2 | 2 | 2 | 11 |
| AR08-186008 | 1 | 2 | 2 | 1 | 8 | 1 | 9 | 1 | 6 |
| M02-385041 | 15 | 13 | 9 | 5 | 11 | 8 | 5 | 13 | 14 |
| M02-385091 | 16 | 12 | 17 | 13 | 14 | 11 | 7 | 4 | 15 |
| M03-165068 | 10 | 11 | 10 | 12 | 9 | 15 | 18 | 16 | 2 |
| M03-172059 | 13 | 15 | 8 | 16 | 14 | 10 | 15 | 9 | 7 |
| OAC 07-48C | 14 | 18 | 16 | 15 | 16 | 14 | 17 | 11 | 16 |
| SD05-240 | 6 | 4 | 7 | 11 | 12 | 5 | 12 | 6 | 4 |
| SD06-535 | 17 | 16 | 18 | 17 | 18 | 16 | 3 | 8 | 18 |

UNIFORM TEST I, 2010

YIELD RANK

| Strain | Waseca MN | Beemer NE | Cotesfield NE | Phillips NE | Chatham ONT | St. Hyacinthe Que. | Aurora SD | Watertown SD |
|--------------|--------------|--------------|------------------|----------------|----------------|--------------------------|--------------|-----------------|
| MN1410 (I) | 8 | 6 | 12 | 3 | 11 | 5 | 13 | 10 |
| IA1022 (SCN) | 6 | 9 | 10 | 10 | 2 | 6 | 11 | 3 |
| Sheyenne (O) | 12 | 17 | 18 | 18 | 16 | 3 | 16 | 7 |
| A07-427027 | 4 | 2 | 9 | 1 | 3 | 4 | 1 | 16 |
| A08-151002 | 10 | 9 | 5 | 6 | 15 | 15 | 4 | 12 |
| A08-151024 | 16 | 3 | 3 | 4 | 14 | 1 | 9 | 2 |
| A08-151031 | 2 | 5 | 4 | 9 | 5 | 8 | 8 | 14 |
| A08-151033 | 5 | 8 | 2 | 7 | 10 | 10 | 7 | 1 |
| A08-152041 | 15 | 13 | 11 | 12 | 4 | 11 | 5 | 18 |
| AR07-175064 | 11 | 11 | 6 | 8 | 9 | 14 | 12 | 5 |
| AR08-186008 | 3 | 1 | 1 | 2 | 8 | 7 | 3 | 8 |
| M02-385041 | 17 | 18 | 16 | 17 | 12 | 18 | 15 | 17 |
| M02-385091 | 12 | 13 | 17 | 16 | 17 | 17 | 17 | 13 |
| M03-165068 | 14 | 4 | 7 | 11 | 1 | 12 | 6 | 4 |
| M03-172059 | 9 | 12 | 15 | 13 | 7 | 9 | 10 | 11 |
| OAC 07-48C | 1 | 15 | 14 | 14 | 13 | 2 | 14 | 15 |
| SD05-240 | 7 | 7 | 8 | 5 | 6 | 16 | 2 | 6 |
| SD06-535 | 18 | 16 | 13 | 15 | 18 | 13 | 18 | 9 |

UNIFORM TEST I, 2010

MATURITY (date)

| Strain | Mean 13 Tests | Ames IA | Eldora IA | Kanawha IA | Lafayette IN | Wanatah IN | Ingham County MI | Saginaw County MI | Lamberton MN |
|----------------|---------------------|------------|--------------|---------------|-----------------|---------------|------------------------|-------------------------|-----------------|
| MN1410 (I) | 9/14 | 8/28 | 9/9 | 9/10 | 9/30 | 9/6 | | | 9/24 |
| IA1022 (SCN) | 3.7 | 4 | 4 | 5 | 7 | -2 | | | 5 |
| Sheyenne (O) | -5.8 | -7 | -5 | -8 | -5 | -5 | | | -9 |
| A07-427027 | 6.0 | 8 | 7 | 10 | 11 | 2 | | | 7 |
| A08-151002 | 3.3 | 4 | 3 | 3 | 7 | 1 | | | 3 |
| A08-151024 | 3.3 | 3 | 3 | 4 | 9 | 2 | | | 4 |
| A08-151031 | 2.2 | 4 | 2 | 2 | 7 | 2 | | | 4 |
| A08-151033 | 5.3 | 8 | 5 | 5 | 10 | 2 | | | 6 |
| A08-152041 | 7.0 | 11 | 9 | 11 | 12 | 8 | | | 7 |
| AR07-175064 | 3.6 | 8 | 5 | 4 | 9 | 3 | | | 5 |
| AR08-186008 | 3.8 | 8 | 4 | 5 | 7 | 6 | | | 3 |
| M02-385041 | -1.9 | -2 | -1 | -2 | 0 | 0 | | | -2 |
| M02-385091 | -1.0 | 1 | -5 | -2 | 0 | 1 | | | -2 |
| M03-165068 | -1.7 | -2 | -2 | -1 | 1 | 0 | | | -3 |
| M03-172059 | -4.4 | -7 | -6 | -7 | -5 | 0 | | | -4 |
| OAC 07-48C | 2.0 | 1 | 3 | 4 | 8 | 4 | | | 3 |
| SD05-240 | 3.8 | 7 | 5 | 4 | 7 | 1 | | | 6 |
| SD06-535 | 0.1 | 4 | 1 | 0 | 0 | 0 | | | 0 |
| Date Planted | 5/18 | 5/5 | 5/20 | 5/6 | 5/26 | 6/10 | 5/30 | 5/6 | 5/16 |
| Days to Mature | 119 | 115 | 112 | 127 | 127 | 88 | | | 131 |

UNIFORM TEST I, 2010

MATURITY (date)

| Strain | Waseca MN | Beemer NE | Cotesfield NE | Phillips NE | Chatham ONT | St. Hyacinthe Que. | Aurora SD | Watertown SD |
|----------------|--------------|--------------|------------------|----------------|----------------|--------------------------|--------------|-----------------|
| MN1410 (I) | 9/16 | 9/7 | | 9/8 | 9/8 | 9/25 | 9/21 | 9/30 |
| IA1022 (SCN) | 9 | 1 | | 4 | 3 | 5 | 3 | 1 |
| Shyenne (O) | -3 | -3 | | -9 | -4 | -5 | -10 | -3 |
| A07-427027 | 5 | 6 | | 4 | 6 | 5 | 3 | 4 |
| A08-151002 | 10 | 2 | | 1 | 3 | 2 | 1 | 4 |
| A08-151024 | 2 | 3 | | 1 | 6 | 2 | 1 | 4 |
| A08-151031 | 1 | 1 | | -1 | 4 | 2 | 1 | 0 |
| A08-151033 | 3 | 4 | | 5 | 7 | 7 | 3 | 4 |
| A08-152041 | -3 | 6 | | 4 | 10 | 9 | 7 | 1 |
| AR07-175064 | 0 | 1 | | 2 | 3 | 6 | 3 | -1 |
| AR08-186008 | 5 | 5 | | 2 | 5 | 0 | 1 | -1 |
| M02-385041 | 1 | -5 | | -4 | -1 | -2 | -5 | -3 |
| M02-385091 | 6 | -3 | | -3 | -1 | -3 | 1 | -3 |
| M03-165068 | -5 | -2 | | -5 | 0 | -2 | 1 | -3 |
| M03-172059 | 2 | -5 | | -7 | -3 | -5 | -8 | -3 |
| OAC 07-48C | -1 | 0 | | 1 | 3 | 2 | 1 | -3 |
| SD05-240 | 6 | 3 | | 2 | 4 | 5 | 3 | -3 |
| SD06-535 | 4 | -4 | | -2 | 2 | -1 | 1 | -3 |
| Date Planted | 5/15 | 5/17 | 5/14 | 5/18 | 5/27 | 5/7 | 5/19 | 5/28 |
| Days to Mature | 124 | 113 | | 113 | 104 | 141 | 125 | 125 |

UNIFORM TEST I, 2010

LODGING (score)

| Strain | Mean 15 Tests | Ames IA | Eldora IA | Kanawha IA | Lafayette IN | Wanatah IN | Ingham County MI | Saginaw County MI | Lamberton MN |
|--------------|---------------------|------------|--------------|---------------|-----------------|---------------|------------------------|-------------------------|-----------------|
| MN1410 (I) | 1.8 | 2.0 | 2.0 | 2.0 | 1.0 | 1.0 | 1.0 | 1.0 | 2.0 |
| IA1022 (SCN) | 1.8 | 1.8 | 2.0 | 2.0 | 1.3 | 1.3 | 1.0 | 1.0 | 2.3 |
| Sheyenne (O) | 1.3 | 1.5 | 1.8 | 1.5 | 1.0 | 1.0 | 1.0 | 1.0 | 1.7 |
| A07-427027 | 1.3 | 1.3 | 1.5 | 1.5 | 1.0 | 1.0 | 1.0 | 1.0 | 2.0 |
| A08-151002 | 1.3 | 1.5 | 2.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 2.0 |
| A08-151024 | 1.3 | 1.5 | 1.8 | 1.8 | 1.0 | 1.0 | 1.0 | 1.0 | 2.0 |
| A08-151031 | 1.8 | 2.0 | 2.0 | 1.8 | 1.2 | 1.0 | 1.5 | 1.0 | 2.3 |
| A08-151033 | 1.7 | 1.8 | 2.0 | 1.5 | 1.0 | 1.0 | 1.0 | 1.0 | 3.0 |
| A08-152041 | 1.5 | 2.0 | 2.0 | 1.3 | 1.0 | 1.0 | 1.0 | 1.0 | 3.0 |
| AR07-175064 | 1.5 | 2.0 | 2.3 | 1.5 | 1.0 | 1.0 | 1.5 | 1.0 | 3.0 |
| AR08-186008 | 1.4 | 1.8 | 2.0 | 1.5 | 1.0 | 1.0 | 1.0 | 1.0 | 2.3 |
| M02-385041 | 1.7 | 2.3 | 2.3 | 2.3 | 1.3 | 1.3 | 1.5 | 1.0 | 2.0 |
| M02-385091 | 1.6 | 2.0 | 2.3 | 1.3 | 1.2 | 1.0 | 1.0 | 1.0 | 2.3 |
| M03-165068 | 1.5 | 2.0 | 2.0 | 1.5 | 1.2 | 1.0 | 1.0 | 1.0 | 2.3 |
| M03-172059 | 1.3 | 1.8 | 2.3 | 1.5 | 1.0 | 1.0 | 1.0 | 1.0 | 2.0 |
| OAC 07-48C | 1.3 | 1.5 | 1.8 | 1.5 | 1.0 | 1.0 | 1.0 | 1.0 | 2.0 |
| SD05-240 | 1.7 | 1.8 | 2.3 | 1.8 | 1.3 | 1.0 | 1.0 | 1.0 | 2.3 |
| SD06-535 | 1.4 | 1.8 | 1.5 | 1.3 | 1.0 | 1.0 | 1.0 | 1.0 | 2.3 |

UNIFORM TEST I, 2010

LODGING (score)

| Strain | Waseca MN | Beemer NE | Cotesfield NE | Phillips NE | Chatham ONT | St. Hyacinthe Que. | Aurora SD | Watertown SD |
|--------------|--------------|--------------|------------------|----------------|----------------|--------------------------|--------------|-----------------|
| MN1410 (I) | 2.7 | 2.0 | | 2.0 | 1.0 | 3.7 | 2.0 | 1.0 |
| IA1022 (SCN) | 2.0 | 2.0 | | 2.0 | 1.3 | 3.3 | 2.0 | 2.0 |
| Shyenne (O) | 2.0 | 1.0 | | 1.0 | 1.0 | 2.7 | 1.0 | 1.0 |
| A07-427027 | 2.0 | 1.0 | | 1.0 | 1.0 | 1.7 | 1.0 | 1.0 |
| A08-151002 | 2.0 | 1.0 | | 1.5 | 1.0 | 1.7 | 1.0 | 1.0 |
| A08-151024 | 2.3 | 1.0 | | 1.0 | 1.0 | 1.7 | 1.0 | 1.0 |
| A08-151031 | 2.0 | 2.0 | | 2.0 | 1.0 | 3.0 | 2.0 | 2.0 |
| A08-151033 | 2.3 | 1.5 | | 1.0 | 1.0 | 4.0 | 1.0 | 2.0 |
| A08-152041 | 2.0 | 1.0 | | 1.0 | 1.7 | 3.0 | 1.0 | 1.0 |
| AR07-175064 | 2.0 | 1.0 | | 1.0 | 1.0 | 2.3 | 1.0 | 1.0 |
| AR08-186008 | 2.0 | 1.0 | | 1.0 | 1.0 | 2.0 | 1.0 | 1.0 |
| M02-385041 | 2.0 | 1.5 | | 2.0 | 1.0 | 3.3 | 1.0 | 1.0 |
| M02-385091 | 2.0 | 1.5 | | 2.0 | 1.0 | 3.0 | 2.0 | 1.0 |
| M03-165068 | 2.0 | 1.0 | | 1.5 | 1.0 | 2.3 | 1.0 | 2.0 |
| M03-172059 | 2.0 | 1.0 | | 1.0 | 1.0 | 1.7 | 1.0 | 1.0 |
| OAC 07-48C | 2.0 | 1.0 | | 1.0 | 1.0 | 1.7 | 1.0 | 1.0 |
| SD05-240 | 2.3 | 2.5 | | 1.5 | 1.3 | 3.7 | 1.0 | 1.0 |
| SD06-535 | 2.0 | 1.0 | | 1.0 | 1.0 | 3.0 | 1.0 | 1.0 |

UNIFORM TEST I, 2010

PLANT HEIGHT (inches)

| Strain | Mean 14 Tests | Ames IA | Eldora IA | Kanawha IA | Lafayette IN | Wanatah IN | Ingham County MI | Saginaw County MI | Lamberton MN |
|--------------|---------------------|------------|--------------|---------------|-----------------|---------------|------------------------|-------------------------|-----------------|
| MN1410 (I) | 36 | 39 | 39 | 33 | 37 | 30 | 30 | 23 | 37 |
| IA1022 (SCN) | 35 | 40 | 39 | 31 | 35 | 30 | 28 | 21 | 36 |
| Sheyenne (O) | 31 | 33 | 39 | 27 | 30 | 25 | 28 | 16 | 33 |
| A07-427027 | 36 | 40 | 40 | 34 | 38 | 31 | 29 | 23 | 39 |
| A08-151002 | 33 | 37 | 36 | 29 | 35 | 29 | 26 | 25 | 40 |
| A08-151024 | 37 | 40 | 42 | 36 | 39 | 31 | 29 | 23 | 43 |
| A08-151031 | 38 | 41 | 41 | 38 | 40 | 32 | 33 | 21 | 46 |
| A08-151033 | 34 | 36 | 36 | 32 | 36 | 27 | 28 | 23 | 41 |
| A08-152041 | 38 | 41 | 41 | 34 | 42 | 32 | 30 | 25 | 43 |
| AR07-175064 | 37 | 38 | 42 | 31 | 39 | 32 | 32 | 28 | 41 |
| AR08-186008 | 35 | 39 | 39 | 35 | 35 | 30 | 30 | 24 | 40 |
| M02-385041 | 34 | 33 | 35 | 32 | 35 | 31 | 29 | 20 | 38 |
| M02-385091 | 35 | 37 | 36 | 30 | 35 | 29 | 29 | 26 | 38 |
| M03-165068 | 31 | 30 | 34 | 33 | 32 | 27 | 23 | 20 | 37 |
| M03-172059 | 33 | 34 | 38 | 29 | 33 | 28 | 24 | 21 | 40 |
| OAC 07-48C | 35 | 40 | 38 | 32 | 40 | 32 | 29 | 23 | 37 |
| SD05-240 | 36 | 41 | 39 | 30 | 39 | 30 | 28 | 23 | 43 |
| SD06-535 | 37 | 38 | 43 | 34 | 38 | 29 | 32 | 24 | 42 |

UNIFORM TEST I, 2010

PLANT HEIGHT (inches)

| Strain | Waseca MN | Beemer NE | Cotesfield NE | Phillips NE | Chatham ONT | St. Hyacinthe Que. | Aurora SD | Watertown SD |
|--------------|--------------|--------------|------------------|----------------|----------------|--------------------------|--------------|-----------------|
| MN1410 (I) | 41 | | | 39 | 37 | 37 | 41 | 39 |
| IA1022 (SCN) | 40 | | | 35 | 36 | 38 | 41 | 38 |
| Shyenne (O) | 37 | | | 31 | 31 | 32 | 38 | 37 |
| A07-427027 | 42 | | | 36 | 37 | 38 | 39 | 36 |
| A08-151002 | 41 | | | 32 | 37 | 34 | 35 | 33 |
| A08-151024 | 43 | | | 38 | 39 | 40 | 39 | 37 |
| A08-151031 | 45 | | | 38 | 41 | 41 | 47 | 36 |
| A08-151033 | 40 | | | 36 | 36 | 36 | 41 | 33 |
| A08-152041 | 43 | | | 39 | 42 | 42 | 44 | 34 |
| AR07-175064 | 41 | | | 39 | 35 | 37 | 41 | 36 |
| AR08-186008 | 43 | | | 35 | 33 | 37 | 39 | 35 |
| M02-385041 | 39 | | | 33 | 36 | 38 | 41 | 39 |
| M02-385091 | 39 | | | 33 | 37 | 39 | 42 | 40 |
| M03-165068 | 36 | | | 29 | 33 | 35 | 37 | 33 |
| M03-172059 | 39 | | | 31 | 35 | 36 | 38 | 39 |
| OAC 07-48C | 40 | | | 35 | 35 | 32 | 40 | 40 |
| SD05-240 | 44 | | | 35 | 36 | 39 | 39 | 37 |
| SD06-535 | 44 | | | 35 | 39 | 41 | 45 | 38 |

UNIFORM TEST I, 2010

SEED QUALITY (score)

| Strain | Mean 9 Tests | Ames IA | Eldora IA | Kanawha IA | Lafayette IN | Wanatah IN | Ingham County MI | Saginaw County MI | Lamberton MN |
|--------------|--------------------|------------|--------------|---------------|-----------------|---------------|------------------------|-------------------------|-----------------|
| MN1410 (I) | 1.6 | | | 2.0 | 1.5 | 1.5 | | | 1.0 |
| IA1022 (SCN) | 1.3 | | | 1.0 | 1.0 | 1.0 | | | 1.0 |
| Sheyenne (O) | 1.7 | | | 2.0 | 2.0 | 2.0 | | | 1.0 |
| A07-427027 | 1.4 | | | 1.0 | 1.0 | 1.0 | | | 1.0 |
| A08-151002 | 1.6 | | | 1.0 | 1.0 | 1.0 | | | 1.0 |
| A08-151024 | 1.3 | | | 1.0 | 1.0 | 1.0 | | | 1.0 |
| A08-151031 | 1.5 | | | 2.0 | 1.0 | 1.0 | | | 1.0 |
| A08-151033 | 1.3 | | | 1.0 | 1.0 | 1.0 | | | 1.0 |
| A08-152041 | 1.2 | | | 1.0 | 1.0 | 1.5 | | | 1.0 |
| AR07-175064 | 1.1 | | | 1.0 | 1.0 | 1.0 | | | 1.0 |
| AR08-186008 | 1.3 | | | 1.0 | 1.5 | 1.0 | | | 1.0 |
| M02-385041 | 1.5 | | | 2.0 | 1.5 | 1.5 | | | 1.0 |
| M02-385091 | 1.7 | | | 1.0 | 1.5 | 1.5 | | | 1.0 |
| M03-165068 | 1.6 | | | 2.0 | 1.5 | 1.5 | | | 1.0 |
| M03-172059 | 1.6 | | | 2.0 | 2.0 | 2.0 | | | 1.0 |
| OAC 07-48C | 1.5 | | | 2.0 | 2.0 | 1.5 | | | 1.0 |
| SD05-240 | 1.1 | | | 1.0 | 1.0 | 1.5 | | | 1.0 |
| SD06-535 | 1.6 | | | 2.0 | 1.5 | 1.5 | | | 1.0 |

UNIFORM TEST I, 2010**SEED QUALITY (score)**

| Strain | Waseca MN | Beemer NE | Cotesfield NE | Phillips NE | Chatham ONT | St. Hyacinthe Que. | Aurora SD | Watertown SD |
|--------------|--------------|--------------|------------------|----------------|----------------|--------------------------|--------------|-----------------|
| MN1410 (I) | 1.0 | | | 2.0 | 2.0 | | 1.0 | 2.0 |
| IA1022 (SCN) | 1.0 | | | 1.0 | 2.0 | | 2.0 | 2.0 |
| Sheyenne (O) | 1.0 | | | 3.0 | 1.7 | | 2.0 | 1.0 |
| A07-427027 | 1.0 | | | 2.0 | 2.0 | | 2.0 | 2.0 |
| A08-151002 | 1.0 | | | 2.0 | 1.7 | | 3.0 | 3.0 |
| A08-151024 | 1.0 | | | 2.0 | 2.0 | | 1.0 | 2.0 |
| A08-151031 | 1.0 | | | 2.0 | 1.7 | | 2.0 | 2.0 |
| A08-151033 | 1.0 | | | 1.0 | 1.7 | | 1.0 | 3.0 |
| A08-152041 | 1.0 | | | 1.0 | 1.3 | | 1.0 | 2.0 |
| AR07-175064 | 1.0 | | | 1.0 | 1.3 | | 1.0 | 2.0 |
| AR08-186008 | 1.0 | | | 2.0 | 1.0 | | 2.0 | 1.0 |
| M02-385041 | 1.0 | | | 2.0 | 1.7 | | 1.0 | 2.0 |
| M02-385091 | 1.0 | | | 2.0 | 1.7 | | 3.0 | 3.0 |
| M03-165068 | 1.0 | | | 2.0 | 1.3 | | 2.0 | 2.0 |
| M03-172059 | 1.0 | | | 3.0 | 1.0 | | 1.0 | 1.0 |
| OAC 07-48C | 1.0 | | | 2.0 | 1.7 | | 1.0 | 1.0 |
| SD05-240 | 1.0 | | | 1.0 | 1.3 | | 1.0 | 1.0 |
| SD06-535 | 1.0 | | | 2.0 | 1.7 | | 2.0 | 2.0 |

UNIFORM TEST I, 2010

SEED SIZE (g/100)

| Strain | Mean 16 Tests | Ames IA | Eldora IA | Kanawha IA | Lafayette IN | Wanatah IN | Ingham County MI | Saginaw County MI | Lamberton MN |
|--------------|---------------------|------------|--------------|---------------|-----------------|---------------|------------------------|-------------------------|-----------------|
| MN1410 (I) | 15.4 | 16.1 | 16.0 | 14.6 | 16.6 | 10.9 | 14.1 | 14.0 | 15.5 |
| IA1022 (SCN) | 14.1 | 15.2 | 14.7 | 13.4 | 14.5 | 10.9 | 12.3 | 13.4 | 14.3 |
| Sheyenne (O) | 15.7 | 16.8 | 17.5 | 14.5 | 16.8 | 11.0 | 13.9 | 14.4 | 16.1 |
| A07-427027 | 14.5 | 15.2 | 15.1 | 13.2 | 14.8 | 10.3 | 12.7 | 14.7 | 14.5 |
| A08-151002 | 12.7 | 13.2 | 13.6 | 11.0 | 12.1 | 10.1 | 11.9 | 13.0 | 13.3 |
| A08-151024 | 14.9 | 15.6 | 15.4 | 13.7 | 15.2 | 11.5 | 14.1 | 14.7 | 16.0 |
| A08-151031 | 15.3 | 16.8 | 15.3 | 14.4 | 15.7 | 10.6 | 13.3 | 15.6 | 15.9 |
| A08-151033 | 16.2 | 17.8 | 17.5 | 15.2 | 16.8 | 11.7 | 14.7 | 14.4 | 17.9 |
| A08-152041 | 14.4 | 14.9 | 15.2 | 14.0 | 14.8 | 11.2 | 14.0 | 15.0 | 15.1 |
| AR07-175064 | 17.0 | 18.4 | 18.4 | 16.5 | 17.7 | 13.1 | 15.9 | 16.6 | 17.4 |
| AR08-186008 | 14.3 | 15.3 | 14.2 | 13.2 | 14.4 | 11.4 | 13.3 | 14.6 | 14.2 |
| M02-385041 | 13.3 | 15.1 | 14.3 | 13.6 | 13.7 | 10.1 | 13.1 | 13.4 | 14.1 |
| M02-385091 | 14.5 | 16.9 | 14.3 | 13.7 | 14.5 | 10.6 | 13.1 | 13.6 | 14.5 |
| M03-165068 | 14.0 | 16.0 | 14.3 | 12.2 | 14.8 | 10.0 | 11.8 | 13.3 | 15.0 |
| M03-172059 | 15.3 | 16.3 | 15.8 | 14.7 | 17.2 | 12.1 | 13.3 | 14.0 | 16.2 |
| OAC 07-48C | 15.8 | 16.0 | 15.0 | 14.8 | 15.5 | 12.1 | 14.7 | 16.2 | 16.0 |
| SD05-240 | 14.9 | 15.8 | 15.0 | 13.8 | 15.2 | 11.7 | 14.0 | 15.3 | 15.6 |
| SD06-535 | 14.8 | 16.3 | 13.7 | 13.7 | 14.3 | 11.1 | 15.1 | 14.0 | 13.9 |

UNIFORM TEST I, 2010

SEED SIZE (g/100)

| Strain | Waseca MN | Beemer NE | Cotesfield NE | Phillips NE | Chatham ONT | St. Hyacinthe Que. | Aurora SD | Watertown SD |
|--------------|--------------|--------------|------------------|----------------|----------------|--------------------------|--------------|-----------------|
| MN1410 (I) | 14.4 | 15.1 | 16.2 | 19.3 | 17.4 | 19.3 | 15.2 | 12.5 |
| IA1022 (SCN) | 12.8 | 13.7 | 15.3 | 16.9 | 14.6 | 17.7 | 14.2 | 12.4 |
| Sheyenne (O) | 15.2 | 16.5 | 16.2 | 19.1 | 15.9 | 18.4 | 15.7 | 13.1 |
| A07-427027 | 14.0 | 13.5 | 15.4 | 16.5 | 16.0 | 18.9 | 14.4 | 12.2 |
| A08-151002 | 11.4 | 12.3 | 13.0 | 13.8 | 14.1 | 15.6 | 12.6 | 12.6 |
| A08-151024 | 13.6 | 14.1 | 14.6 | 17.1 | 15.9 | 18.6 | 15.0 | 13.9 |
| A08-151031 | 14.4 | 15.1 | 17.0 | 16.9 | 16.6 | 18.9 | 14.3 | 13.9 |
| A08-151033 | 13.6 | 15.0 | 15.9 | 17.6 | 17.8 | 21.1 | 16.7 | 16.1 |
| A08-152041 | 13.7 | 11.2 | 14.2 | 14.9 | 15.9 | 17.1 | 14.5 | 14.2 |
| AR07-175064 | 15.3 | 15.1 | 16.8 | 18.7 | 18.4 | 22.3 | 17.0 | 14.9 |
| AR08-186008 | 13.2 | 12.8 | 15.8 | 17.8 | 15.5 | 18.1 | 12.9 | 12.2 |
| M02-385041 | 11.2 | 11.5 | 12.6 | 15.2 | 14.9 | 16.9 | 12.5 | 11.4 |
| M02-385091 | 12.3 | 14.4 | 15.9 | 18.4 | 16.6 | 17.7 | 14.0 | 11.6 |
| M03-165068 | 12.6 | 12.3 | 15.5 | 17.2 | 15.2 | 18.6 | 13.2 | 11.9 |
| M03-172059 | 14.1 | 15.6 | 15.7 | 18.4 | 17.0 | 17.7 | 15.2 | 11.4 |
| OAC 07-48C | 15.0 | 14.7 | 16.5 | 19.5 | 17.3 | 20.3 | 16.1 | 13.6 |
| SD05-240 | 14.2 | 14.3 | 14.7 | 17.8 | 15.9 | 18.4 | 14.7 | 12.5 |
| SD06-535 | 13.4 | 13.4 | 15.7 | 17.7 | 16.0 | 19.6 | 14.8 | 13.6 |

UNIFORM TEST I, 2010

PROTEIN (%)

| Strain | Mean 10 Tests | Eldora IA | Kanawha IA | Lafayette IN | Wanatah IN | Ingham MI | Lamberton MN | Waseca MN | Aurora SD | Phillips NE | Chatham ONT |
|--------------|---------------------|--------------|---------------|-----------------|---------------|--------------|-----------------|--------------|--------------|----------------|----------------|
| MN1410 (I) | 35.1 | 34.7 | 35.2 | 35.8 | 35.2 | 35.2 | 34.8 | 33.2 | 35.3 | 35.9 | 35.6 |
| IA1022 (SCN) | 33.5 | 33.7 | 33.1 | 34.6 | 32.7 | 34.1 | 33.7 | 32.0 | 33.3 | 35.8 | 32.2 |
| Sheyenne (O) | 34.2 | 34.6 | 34.5 | 34.2 | 34.2 | 33.9 | 34.2 | 33.1 | 33.8 | 35.0 | 34.5 |
| A07-427027 | 34.2 | 33.4 | 33.5 | 34.6 | 34.8 | 34.9 | 34.7 | 32.4 | 34.3 | 34.2 | 35.4 |
| A08-151002 | 34.1 | 32.5 | 33.5 | 34.3 | 34.8 | 34.1 | 34.3 | 32.7 | 34.8 | 34.5 | 35.6 |
| A08-151024 | 35.8 | 36.6 | 35.3 | 35.2 | 36.0 | 36.1 | 35.2 | 34.5 | 35.9 | 36.1 | 37.2 |
| A08-151031 | 34.5 | 33.0 | 33.5 | 34.7 | 35.7 | 35.7 | 34.4 | 32.7 | 34.5 | 34.0 | 36.6 |
| A08-151033 | 34.5 | 34.1 | 34.5 | 34.7 | 34.9 | 34.5 | 34.6 | 31.6 | 35.8 | 34.2 | 36.4 |
| A08-152041 | 34.6 | 32.9 | 35.0 | 34.3 | 34.7 | 35.3 | 34.0 | 34.2 | 35.3 | 34.3 | 35.7 |
| AR07-175064 | 34.8 | 34.1 | 35.4 | 34.7 | 35.2 | 34.9 | 35.2 | 34.2 | 34.4 | 34.8 | 35.3 |
| AR08-186008 | 34.8 | 33.8 | 34.0 | 34.5 | 34.9 | 36.2 | 35.0 | 34.0 | 34.4 | 35.0 | 35.8 |
| M02-385041 | 34.0 | 33.4 | 34.7 | 33.8 | 34.3 | 35.3 | 33.5 | 32.4 | 34.0 | 33.9 | 34.7 |
| M02-385091 | 35.2 | 34.3 | 35.3 | 35.3 | 35.2 | 35.3 | 35.6 | 34.1 | 35.1 | 35.7 | 36.3 |
| M03-165068 | 34.4 | 33.1 | 32.6 | 34.6 | 34.7 | 35.7 | 35.8 | 33.5 | 33.9 | 34.2 | 35.9 |
| M03-172059 | 34.2 | 34.6 | 34.0 | 33.8 | 34.4 | 34.2 | 34.2 | 33.1 | 34.7 | 34.3 | 34.9 |
| OAC 07-48C | 32.4 | 30.5 | 32.7 | 32.4 | 32.9 | 33.5 | 32.0 | 31.6 | 32.7 | 32.7 | 32.5 |
| SD05-240 | 34.1 | 32.7 | 34.1 | 34.2 | 33.7 | 34.0 | 34.1 | 34.2 | 34.5 | 34.6 | 35.2 |
| SD06-535 | 34.5 | 32.4 | 34.4 | 34.4 | 35.3 | 35.2 | 34.5 | 33.7 | 34.2 | 35.1 | 36.0 |

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

UNIFORM TEST I, 2010

OIL (%)

| Strain | Mean 10 Tests | Eldora IA | Kanawha IA | Lafayette IN | Wanatah IN | Ingham MI | Lamberton MN | Waseca MN | Aurora SD | Phillips NE | Chatham ONT |
|--------------|---------------------|--------------|---------------|-----------------|---------------|--------------|-----------------|--------------|--------------|----------------|----------------|
| MN1410 (I) | 18.5 | 18.1 | 18.6 | 18.1 | 16.8 | 18.7 | 18.9 | 18.9 | 18.5 | 18.1 | 19.8 |
| IA1022 (SCN) | 19.2 | 19.3 | 19.3 | 18.8 | 18.7 | 18.9 | 17.6 | 19.6 | 19.7 | 20.0 | 20.6 |
| Sheyenne (O) | 18.7 | 18.3 | 18.6 | 18.7 | 17.5 | 18.6 | 18.7 | 18.7 | 18.8 | 18.8 | 20.0 |
| A07-427027 | 17.9 | 18.2 | 18.2 | 17.5 | 16.5 | 17.7 | 18.1 | 18.4 | 18.1 | 18.5 | 18.2 |
| A08-151002 | 17.6 | 17.6 | 17.5 | 17.2 | 16.3 | 17.2 | 18.2 | 17.7 | 17.8 | 18.5 | 18.4 |
| A08-151024 | 17.9 | 18.9 | 17.9 | 17.6 | 16.2 | 16.8 | 18.0 | 18.4 | 17.7 | 19.3 | 18.3 |
| A08-151031 | 17.7 | 18.0 | 18.0 | 18.3 | 15.7 | 17.1 | 17.6 | 17.9 | 17.7 | 18.5 | 18.2 |
| A08-151033 | 17.8 | 17.7 | 17.5 | 17.6 | 16.5 | 17.6 | 17.6 | 17.9 | 18.5 | 18.5 | 18.7 |
| A08-152041 | 17.9 | 18.3 | 17.9 | 17.6 | 16.9 | 17.0 | 18.4 | 18.7 | 17.5 | 18.4 | 18.3 |
| AR07-175064 | 18.0 | 17.5 | 18.4 | 18.1 | 16.7 | 17.1 | 18.2 | 18.8 | 17.8 | 18.2 | 19.1 |
| AR08-186008 | 17.7 | 17.7 | 18.4 | 17.7 | 16.4 | 16.5 | 18.0 | 17.8 | 17.8 | 18.0 | 18.8 |
| M02-385041 | 18.2 | 18.1 | 18.1 | 18.4 | 16.4 | 17.4 | 18.5 | 17.9 | 18.2 | 18.9 | 19.7 |
| M02-385091 | 17.8 | 18.3 | 17.1 | 18.1 | 16.5 | 18.1 | 18.4 | 17.0 | 17.5 | 17.7 | 19.0 |
| M03-165068 | 18.2 | 18.2 | 18.9 | 18.7 | 16.1 | 17.6 | 18.7 | 17.8 | 18.1 | 18.7 | 19.1 |
| M03-172059 | 18.7 | 18.3 | 19.3 | 18.1 | 18.3 | 18.7 | 19.0 | 18.3 | 19.1 | 18.6 | 19.8 |
| OAC 07-48C | 19.0 | 19.0 | 18.9 | 19.1 | 17.6 | 18.3 | 19.8 | 19.1 | 19.1 | 19.2 | 20.3 |
| SD05-240 | 18.4 | 18.0 | 18.2 | 18.3 | 17.5 | 18.4 | 18.4 | 18.4 | 18.2 | 19.1 | 19.0 |
| SD06-535 | 18.0 | 18.4 | 18.1 | 17.9 | 16.8 | 17.4 | 18.1 | 17.5 | 18.2 | 18.1 | 19.9 |

Preliminary Test I, 2010

| Ent. | Strain | Parentage | Seed Source | Gen. Comp. | Unique Traits |
|------|------------------|-------------------------------------|-------------|------------|--------------------------|
| 1. | MN1410 (I) | MN0302 x Archer | Orf | F5 | Rps1k, BSR |
| 2. | IA1022 (SCN) | Dairyland 98822 x A00-711024 | Fehr | F5 | SCN |
| 3. | Sheyenne (O) | Pioneer 9071 x A96-492041 | Helms | F4 | Rps1-c |
| 4. | AR09-192004 | Golden Harvest H-2285 x AR05-250118 | Cianzio | F4 | |
| 5. | AR09-192008 | AR05-250117 x Soygenetics F40355C | Cianzio | F4 | |
| 6. | AR09-192010 | Soygenetics F35815C x AR04-874018 | Cianzio | F4 | BSR |
| 7. | AR09-192011 | Soygenetics F35978C x AR04-874018 | Cianzio | F4 | BSR |
| 8. | AR09-192012 | Syngenta 03KL016094 x AR04-874018 | Cianzio | F4 | BSR |
| 9. | AR09-192014 | AR04-874018 x M98-227065 | Cianzio | F4 | BSR |
| 10. | AR09-192018 | LD01-7323 x AR02-101001 | Cianzio | F4 | BSR |
| 11. | M04-261037 | MN0304 x MTC00-112-412-18 | Orf | F5 | Rps1a, Wilt |
| 12. | M04-342124 | M02-175014 x IA2064 | Orf | F5 | Rps1k, 1% Linolenic Acid |
| 13. | M04-380106 | MN0081 x M01-139015 | Orf | F5 | Rps1k |
| 14. | M04-389079 | NE1900 x MN0092 | Orf | F5 | Rps1k |
| 15. | MS05-130005 | M90-421 x MN1401 | Orf | F5 | IDC |
| 16. | MS05-142008 | ORC 0302 x UP1FE(S1)C6-47 | Orf | F5 | IDC |
| 17. | MTC00-112-412-10 | N94-7784 x MN0302 | Orf | F3 | Wilt |
| 18. | OAC 08-18C | OAC 00-01 x SeCan 02-25 | Rajcan | F5 | |
| 19. | OAC 08-21C | Kuna x OAC Champion | Rajcan | F5 | |
| 20. | OAC 08-22C | SeCan 02-09 x NK S20-F8 | Rajcan | F5 | |
| 21. | SD07CV-523 | IA2052 x Pion 9092 | Jiang | F8 | Oil |
| 22. | SD07CV-576 | IA2052 x Pion 9092 | Jiang | F8 | Oil |
| 23. | SD07CV-619 | M96-355009 x Pion 9233 | Jiang | F8 | Oil |
| 24. | SD07CV-673 | M96-355009 x Pion 9233 | Jiang | F8 | |
| 25. | SD07CV-875 | Pion 9233 x Spink | Jiang | F8 | Protein |
| 26. | SD07CV-884 | Pion 9233 x Spink | Jiang | F8 | Oil |
| 27. | SD07CV-885 | Pion 9233 x Spink | Jiang | F8 | |
| 28. | SD07CV-997 | Pion 9233 x A02-381100-1539 | Jiang | F8 | |
| 29. | U07-237074 | U01-390787 x U04-604039 | Graef | F5 | Dt |

PRELIMINARY TEST I, 2010

DESCRIPTIVE AND DISEASE DATA

| Strain | Descriptive Code | <u>Fe Chlorosis</u> | <u>Shattering</u> | <u>PR</u> | | <u>FE</u> |
|------------------|------------------|------------------------|--------------------------|------------------------|------------------------|------------------|
| | | Score Danvers MN | Score Manhattan KS | Lafayette Race 4 | Lafayette Race 7 | Laf. a rx. |
| MN1410 (I) | WGBDYBfI | 1.5 | 3.0 | S* | S* | S |
| IA1022 (SCN) | PGTIYYI | 3.3 | 3.0 | S | S | S |
| Sheyenne (0) | PGBDYI | 2.5 | 3.0 | S | R | - |
| AR09-192004 | PGBDYbI | 4.3 | 4.0 | S | S | S |
| AR09-192008 | P+WGTDYI | 2.0 | 2.0 | S | S | - |
| AR09-192010 | WTTDYBrI | 3.0 | 2.0 | S | S | S |
| AR09-192011 | PGTDYBrI | 3.5 | 2.0 | S | S | S |
| AR09-192012 | PGTDYBr+YI | 2.5 | 2.0 | S | R* | S |
| AR09-192014 | PGBDYbI | 1.5 | 2.0 | S | S | S |
| AR09-192018 | P+WGBDYI | 2.8 | 2.0 | S | S | S |
| M04-261037 | PGTDYLbfI | 3.0 | 2.0 | R* | R* | - |
| M04-342124 | PTBDYBrI | 2.8 | 3.0 | R | R | S |
| M04-380106 | PTTDYBrI | 2.3 | 4.0 | R | R | - |
| M04-389079 | PGBDYI | 2.8 | 3.0 | R | R | - |
| MS05-130005 | P+WGBDYBf+GrI | 2.0 | 3.0 | S | S | S |
| MS05-142008 | P+WTBIYBI+GrI | 2.5 | 2.0 | R* | H* | S |
| MTC00-112-412-10 | PSTDYBrI | 1.5 | 2.0 | R* | R* | S |
| OAC 08-18C | PGBSYI | 3.8 | 3.0 | S | S | S |
| OAC 08-21C | PGBSYI | 3.3 | 3.0 | S | S | S |
| OAC 08-22C | WGBDYI | 2.3 | 5.0 | S | S | S |
| SD07CV-523 | WGBDYBf+YI | 3.3 | 5.0 | S | S | S |
| SD07CV-576 | WGBDYI | 4.0 | 3.0 | S | S | S |
| SD07CV-619 | WTTDYBrI | 4.0 | 4.0 | S | S | S |
| SD07CV-673 | WGBDYBfI | 2.0 | 4.0 | S | S | S |
| SD07CV-875 | WTTDYBrI | 2.8 | 4.0 | S | S | S |
| SD07CV-884 | PGBDYBfI | 3.0 | 4.0 | S | S | S |
| SD07CV-885 | WTDYBrI | 3.3 | 3.0 | S | S | S |
| SD07CV-997 | W+PTTDYBrI | 3.5 | 4.0 | S | S | S |
| U07-237074 | PGTDYBfD | 2.3 | 4.0 | S | S | S |

PR: * = *P. sojæ* inoc. Reaction NOT compatible with breeder's information about *Rps* Trait

FE: S = susceptible, - = lesions not detected, x = no data

PRELIMINARY TEST I, 2010

REGIONAL SUMMARY

| No. of Tests Strain | Yield | Rank | Maturity | Lodging | Plant | Seed | Seed | <u>Composition</u> | |
|------------------------|------------|-----------|------------|-------------|---------------------|-----------------------|---------------------|--------------------|---------------|
| | 11 bu/a | 11 No. | 10 Date | 11 Score | Height 10 In. | Quality 8 Score | Size 11 g/100 | Protein 9 % | Oil 9 % |
| MN1410 (I) | 61.8 | 6 | 9/17 | 1.8 | 37 | 1.7 | 16.1 | 35.5 | 18.0 |
| IA1022 (SCN) | 64.2 | 1 | 5.5 | 2.2 | 36 | 1.3 | 14.6 | 33.9 | 19.3 |
| Sheyenne (0) | 52.6 | 26 | -5.2 | 1.3 | 32 | 2.1 | 16.2 | 33.8 | 18.9 |
| AR09-192004 | 56.7 | 15 | 4.4 | 1.3 | 35 | 2.0 | 15.0 | 33.7 | 18.2 |
| AR09-192008 | 64.2 | 1 | 9.7 | 2.3 | 38 | 1.5 | 16.5 | 34.3 | 17.6 |
| AR09-192010 | 63.9 | 3 | 9.4 | 1.5 | 37 | 1.8 | 15.9 | 35.3 | 17.6 |
| AR09-192011 | 60.5 | 8 | 5.7 | 1.6 | 35 | 1.4 | 16.2 | 35.4 | 17.5 |
| AR09-192012 | 62.2 | 5 | 8.4 | 2.0 | 37 | 1.8 | 14.5 | 35.2 | 17.7 |
| AR09-192014 | 61.0 | 7 | 8.3 | 1.6 | 40 | 1.6 | 16.2 | 35.2 | 17.8 |
| AR09-192018 | 63.9 | 3 | 7.4 | 1.5 | 36 | 1.1 | 15.6 | 35.2 | 18.0 |
| M04-261037 | 48.5 | 29 | 7.1 | 2.4 | 44 | 1.3 | 12.2 | 36.1 | 16.8 |
| M04-342124 | 54.7 | 20 | 2.7 | 2.0 | 36 | 1.4 | 11.9 | 34.9 | 17.9 |
| M04-380106 | 53.0 | 25 | 0.3 | 2.3 | 39 | 1.9 | 16.3 | 35.7 | 17.6 |
| M04-389079 | 58.0 | 11 | 2.2 | 2.0 | 35 | 1.0 | 16.1 | 35.3 | 18.1 |
| MS05-130005 | 53.7 | 23 | -3.7 | 1.8 | 36 | 2.3 | 16.5 | 34.5 | 18.6 |
| MS05-142008 | 58.4 | 10 | 5.0 | 2.1 | 42 | 2.4 | 17.6 | 35.2 | 17.3 |
| MTC00-112-412-10 | 54.4 | 22 | 5.2 | 2.1 | 41 | 1.9 | 15.2 | 35.7 | 17.2 |
| OAC 08-18C | 51.9 | 27 | 0.1 | 2.0 | 37 | 1.8 | 15.6 | 35.3 | 17.8 |
| OAC 08-21C | 51.2 | 28 | -0.3 | 1.7 | 35 | 1.3 | 16.1 | 35.4 | 17.9 |
| OAC 08-22C | 53.6 | 24 | 3.4 | 2.3 | 43 | 1.7 | 17.3 | 35.5 | 18.5 |
| SD07CV-523 | 57.8 | 12 | -3.4 | 1.4 | 35 | 1.4 | 14.1 | 34.6 | 18.8 |
| SD07CV-576 | 57.5 | 13 | 7.9 | 2.7 | 40 | 1.4 | 14.5 | 35.0 | 18.5 |
| SD07CV-619 | 56.0 | 17 | -3.2 | 1.3 | 31 | 1.8 | 15.1 | 35.5 | 18.0 |
| SD07CV-673 | 59.2 | 9 | 7.4 | 1.5 | 37 | 1.8 | 15.4 | 35.5 | 18.2 |
| SD07CV-875 | 55.4 | 19 | 0.5 | 1.6 | 38 | 1.3 | 16.6 | 36.2 | 17.6 |
| SD07CV-884 | 55.5 | 18 | 0.7 | 1.8 | 36 | 1.6 | 15.8 | 35.3 | 18.4 |
| SD07CV-885 | 56.7 | 15 | 3.3 | 2.0 | 39 | 1.2 | 13.4 | 34.8 | 17.7 |
| SD07CV-997 | 57.1 | 14 | 1.2 | 1.5 | 35 | 1.6 | 14.8 | 34.7 | 18.6 |
| U07-237074 | 54.6 | 21 | 3.0 | 2.0 | 34 | 1.3 | 13.5 | 35.3 | 17.6 |

121.3 Days After Planting

PRELIMINARY TEST I, 2010

YIELD (bu/a)

| Strain | Mean 11 Tests | Kanawha IA | Lafayette IN | Ingham County MI | Lamberton MN | Waseca MN |
|------------------|---------------------|---------------|-----------------|------------------------|-----------------|--------------|
| MN1410 (I) | 61.8 | 49.7 | 56.3 | 36.0 | 60.2 | 61.2 |
| IA1022 (SCN) | 64.2 | 50.7 | 62.3 | 45.3 | 55.7 | 71.6 |
| Sheyenne (O) | 52.6 | 39.6 | 46.7 | 49.6 | 47.8 | 55.1 |
| AR09-192004 | 56.7 | 51.4 | 57.3 | 42.7 | 48.1 | 42.0 |
| AR09-192008 | 64.2 | 45.2 | 64.7 | 41.2 | 56.0 | 62.7 |
| AR09-192010 | 63.9 | 49.1 | 54.3 | 47.5 | 59.6 | 72.7 |
| AR09-192011 | 60.5 | 48.7 | 59.7 | 37.1 | 54.0 | 67.1 |
| AR09-192012 | 62.2 | 50.3 | 53.8 | 40.2 | 53.0 | 72.8 |
| AR09-192014 | 61.0 | 53.1 | 57.1 | 39.8 | 50.6 | 67.4 |
| AR09-192018 | 63.9 | 57.0 | 63.9 | 42.8 | 57.1 | 64.3 |
| M04-261037 | 48.5 | 38.1 | 43.9 | 27.1 | 42.2 | 58.7 |
| M04-342124 | 54.7 | 45.8 | 59.5 | 37.6 | 50.5 | 53.0 |
| M04-380106 | 53.0 | 39.9 | 45.6 | 32.3 | 49.0 | 54.4 |
| M04-389079 | 58.0 | 47.6 | 51.0 | 47.5 | 54.3 | 68.7 |
| MS05-130005 | 53.7 | 42.7 | 42.1 | 42.0 | 49.7 | 53.4 |
| MS05-142008 | 58.4 | 48.0 | 55.9 | 36.7 | 48.0 | 63.5 |
| MTC00-112-412-10 | 54.4 | 42.8 | 45.8 | 32.4 | 50.8 | 67.2 |
| OAC 08-18C | 51.9 | 41.1 | 34.3 | 40.0 | 43.6 | 48.6 |
| OAC 08-21C | 51.2 | 41.3 | 35.9 | 41.1 | 42.4 | 46.6 |
| OAC 08-22C | 53.6 | 40.7 | 44.1 | 31.3 | 42.4 | 59.9 |
| SD07CV-523 | 57.8 | 45.6 | 48.1 | 44.9 | 50.2 | 65.6 |
| SD07CV-576 | 57.5 | 44.7 | 57.2 | 43.6 | 46.3 | 60.6 |
| SD07CV-619 | 56.0 | 46.2 | 49.9 | 37.9 | 48.8 | 63.4 |
| SD07CV-673 | 59.2 | 45.5 | 57.8 | 41.3 | 41.8 | 70.0 |
| SD07CV-875 | 55.4 | 43.5 | 49.2 | 37.2 | 52.3 | 60.5 |
| SD07CV-884 | 55.5 | 34.2 | 50.6 | 42.3 | 40.4 | 62.9 |
| SD07CV-885 | 56.7 | 43.6 | 43.5 | 43.7 | 61.6 | 64.3 |
| SD07CV-997 | 57.1 | 44.1 | 46.7 | 42.6 | 50.0 | 68.9 |
| U07-237074 | 54.6 | 40.2 | 53.5 | 40.0 | 44.9 | 45.4 |
| Location Mean | | 45.2 | 51.4 | 40.1 | 50.0 | 61.1 |
| C.V. (%) | | 6.4 | 8.7 | 9.5 | 9.1 | 10.4 |
| L.S.D. (5%) | | 7.0 | 9.2 | 6.5 | 9.3 | 12.9 |
| Row Sp. (In.) | | 30 | 30 | 15 | 10 | 10 |
| Rows/Plot | | 4 | 4 | 6 | 4 | 4 |
| Reps | | 2 | 2 | 2 | 2 | 2 |

*Data not included in mean.

PRELIMINARY TEST I, 2010

YIELD (bu/a)

| Strain | Beemer NE | Cotesfield NE | Phillips NE | Palmyra* ONT | St. Hyacinthe Que. | Aurora SD | Watertown SD |
|------------------|--------------|------------------|----------------|-----------------|--------------------------|--------------|-----------------|
| MN1410 (I) | 73.1 | 88.9 | 89.6 | 46.7 | 70.9 | 56.9 | 36.7 |
| IA1022 (SCN) | 72.1 | 80.2 | 90.2 | 46.4 | 75.3 | 61.9 | 40.9 |
| Sheyenne (O) | 66.2 | 48.2 | 69.4 | 47.4 | 70.2 | 51.8 | 34.5 |
| AR09-192004 | 67.2 | 71.5 | 84.6 | 49.3 | 64.6 | 55.4 | 38.4 |
| AR09-192008 | 71.6 | 96.1 | 100.2 | 53.1 | 69.0 | 60.8 | 38.9 |
| AR09-192010 | 66.3 | 88.7 | 96.1 | 45.7 | 76.5 | 54.7 | 37.5 |
| AR09-192011 | 59.0 | 78.5 | 87.5 | 46.0 | 71.3 | 59.9 | 42.7 |
| AR09-192012 | 62.7 | 86.2 | 92.3 | 38.8 | 70.2 | 58.7 | 44.1 |
| AR09-192014 | 62.3 | 86.9 | 92.1 | 45.2 | 69.7 | 56.3 | 35.5 |
| AR09-192018 | 66.8 | 89.4 | 89.3 | 49.4 | 76.8 | 55.3 | 39.8 |
| M04-261037 | 45.9 | 77.5 | 78.0 | 39.5 | 47.8 | 43.4 | 30.5 |
| M04-342124 | 65.7 | 69.6 | 83.8 | 45.9 | 54.5 | 51.0 | 30.7 |
| M04-380106 | 60.9 | 74.2 | 79.9 | 33.0 | 64.5 | 49.8 | 32.6 |
| M04-389079 | 60.3 | 78.9 | 82.0 | 50.9 | 62.0 | 51.7 | 34.2 |
| MS05-130005 | 58.4 | 69.7 | 80.1 | 39.6 | 59.3 | 53.3 | 39.8 |
| MS05-142008 | 64.1 | 89.2 | 85.1 | 54.7 | 67.2 | 49.6 | 34.7 |
| MTC00-112-412-10 | 55.3 | 74.6 | 83.2 | 43.6 | 65.3 | 47.6 | 33.1 |
| OAC 08-18C | 53.9 | 65.8 | 84.2 | 48.7 | 72.8 | 48.9 | 37.8 |
| OAC 08-21C | 58.3 | 64.0 | 84.0 | 41.5 | 64.5 | 49.4 | 36.0 |
| OAC 08-22C | 59.0 | 76.3 | 79.8 | 47.5 | 70.7 | 45.4 | 40.2 |
| SD07CV-523 | 69.4 | 72.0 | 84.5 | 48.2 | 63.0 | 54.9 | 37.4 |
| SD07CV-576 | 72.6 | 66.4 | 87.5 | 37.0 | 58.0 | 51.0 | 44.5 |
| SD07CV-619 | 62.8 | 64.9 | 83.3 | 38.2 | 61.9 | 60.9 | 36.0 |
| SD07CV-673 | 62.2 | 81.0 | 90.8 | 49.6 | 67.3 | 55.6 | 37.5 |
| SD07CV-875 | 60.0 | 75.0 | 81.8 | 40.0 | 65.6 | 49.0 | 34.9 |
| SD07CV-884 | 67.8 | 76.3 | 84.1 | 34.4 | 65.3 | 52.5 | 33.8 |
| SD07CV-885 | 63.1 | 66.2 | 75.7 | 47.4 | 68.8 | 51.9 | 41.2 |
| SD07CV-997 | 62.3 | 65.6 | 87.1 | 46.4 | 61.8 | 58.4 | 41.2 |
| U07-237074 | 60.4 | 79.9 | 85.5 | 39.7 | 63.7 | 47.7 | 39.4 |
| Location Mean | 63.1 | 75.9 | 85.2 | 44.6 | 66.2 | 53.2 | 37.4 |
| C.V. (%) | 6.0 | 9.2 | 5.4 | 16.5 | 7.6 | 4.8 | 10.1 |
| L.S.D. (5%) | 9.3 | 17.2 | 11.4 | 12.5 | 6.9 | 5.3 | 7.8 |
| Row Sp. (In.) | 30 | 30 | 30 | 17 | 4.92 | 30 | 30 |
| Rows/Plot | 4 | 4 | 4 | 5 | 4 | 4 | 4 |
| Reps | 2 | 2 | 2 | 2 | 2 | 2 | 2 |

PRELIMINARY TEST I, 2010

YIELD RANK

| Strain | Yield Rank | Kanawha IA | Lafayette IN | Ingham County MI | Lamberton MN | Waseca MN |
|------------------|------------|------------|--------------|------------------|--------------|-----------|
| MN1410 (I) | 6 | 6 | 10 | 25 | 2 | 17 |
| IA1022 (SCN) | 1 | 4 | 3 | 4 | 6 | 3 |
| Sheyenne (O) | 26 | 27 | 20 | 1 | 21 | 22 |
| AR09-192004 | 15 | 3 | 7 | 9 | 19 | 29 |
| AR09-192008 | 1 | 15 | 1 | 14 | 5 | 16 |
| AR09-192010 | 3 | 7 | 12 | 2 | 3 | 2 |
| AR09-192011 | 8 | 8 | 4 | 23 | 8 | 9 |
| AR09-192012 | 5 | 5 | 13 | 16 | 9 | 1 |
| AR09-192014 | 7 | 2 | 9 | 19 | 12 | 7 |
| AR09-192018 | 3 | 1 | 2 | 8 | 4 | 11 |
| M04-261037 | 29 | 28 | 25 | 29 | 27 | 21 |
| M04-342124 | 20 | 12 | 5 | 21 | 13 | 25 |
| M04-380106 | 25 | 26 | 23 | 27 | 17 | 23 |
| M04-389079 | 11 | 10 | 15 | 3 | 7 | 6 |
| MS05-130005 | 23 | 21 | 27 | 12 | 16 | 24 |
| MS05-142008 | 10 | 9 | 11 | 24 | 20 | 13 |
| MTC00-112-412-10 | 22 | 20 | 22 | 26 | 11 | 8 |
| OAC 08-18C | 27 | 23 | 29 | 17 | 24 | 26 |
| OAC 08-21C | 28 | 22 | 28 | 15 | 25 | 27 |
| OAC 08-22C | 24 | 24 | 24 | 28 | 25 | 20 |
| SD07CV-523 | 12 | 13 | 19 | 5 | 14 | 10 |
| SD07CV-576 | 13 | 16 | 8 | 7 | 22 | 18 |
| SD07CV-619 | 17 | 11 | 17 | 20 | 18 | 14 |
| SD07CV-673 | 9 | 14 | 6 | 13 | 28 | 4 |
| SD07CV-875 | 19 | 19 | 18 | 22 | 10 | 19 |
| SD07CV-884 | 18 | 29 | 16 | 11 | 29 | 15 |
| SD07CV-885 | 15 | 18 | 26 | 6 | 1 | 11 |
| SD07CV-997 | 14 | 17 | 20 | 10 | 15 | 5 |
| U07-237074 | 21 | 25 | 14 | 18 | 23 | 28 |

PRELIMINARY TEST I, 2010

YIELD RANK

| Strain | Beemer NE | Cotesfield NE | Phillips NE | Palmyra ONT | St. Hyacinthe Que. | Aurora SD | Watertown SD |
|------------------|--------------|------------------|----------------|----------------|--------------------------|--------------|-----------------|
| MN1410 (I) | 1 | 4 | 7 | 12 | 6 | 7 | 17 |
| IA1022 (SCN) | 3 | 9 | 6 | 14 | 3 | 1 | 6 |
| Sheyenne (0) | 10 | 29 | 29 | 11 | 9 | 17 | 23 |
| AR09-192004 | 7 | 20 | 14 | 6 | 18 | 10 | 12 |
| AR09-192008 | 4 | 1 | 1 | 2 | 11 | 3 | 11 |
| AR09-192010 | 9 | 5 | 2 | 17 | 2 | 13 | 14 |
| AR09-192011 | 23 | 12 | 9 | 15 | 5 | 4 | 3 |
| AR09-192012 | 15 | 7 | 3 | 25 | 8 | 5 | 2 |
| AR09-192014 | 16 | 6 | 4 | 18 | 10 | 8 | 20 |
| AR09-192018 | 8 | 2 | 8 | 5 | 1 | 11 | 8 |
| M04-261037 | 29 | 13 | 27 | 24 | 29 | 29 | 29 |
| M04-342124 | 11 | 22 | 19 | 16 | 28 | 19 | 28 |
| M04-380106 | 19 | 18 | 25 | 29 | 20 | 21 | 27 |
| M04-389079 | 21 | 11 | 22 | 3 | 23 | 18 | 24 |
| MS05-130005 | 25 | 21 | 24 | 23 | 26 | 14 | 9 |
| MS05-142008 | 12 | 3 | 13 | 1 | 14 | 22 | 22 |
| MTC00-112-412-10 | 27 | 17 | 21 | 19 | 16 | 27 | 26 |
| OAC 08-18C | 28 | 25 | 16 | 7 | 4 | 25 | 13 |
| OAC 08-21C | 26 | 28 | 18 | 20 | 19 | 23 | 19 |
| OAC 08-22C | 24 | 14 | 26 | 9 | 7 | 28 | 7 |
| SD07CV-523 | 5 | 19 | 15 | 8 | 22 | 12 | 16 |
| SD07CV-576 | 2 | 23 | 9 | 27 | 27 | 20 | 1 |
| SD07CV-619 | 14 | 27 | 20 | 26 | 24 | 2 | 18 |
| SD07CV-673 | 18 | 8 | 5 | 4 | 13 | 9 | 15 |
| SD07CV-875 | 22 | 16 | 23 | 21 | 15 | 24 | 21 |
| SD07CV-884 | 6 | 14 | 17 | 28 | 17 | 15 | 25 |
| SD07CV-885 | 13 | 24 | 28 | 10 | 12 | 16 | 4 |
| SD07CV-997 | 16 | 26 | 11 | 13 | 25 | 6 | 5 |
| U07-237074 | 20 | 10 | 12 | 22 | 21 | 26 | 10 |

PRELIMINARY TEST I, 2010

MATURITY (date)

| Strain | Mean 10 Tests | Kanawha IA | Lafayette IN | Ingham County MI | Lamberton MN | Waseca MN |
|------------------|---------------------|---------------|-----------------|------------------------|-----------------|--------------|
| MN1410 (I) | 9/17 | 9/9 | 10/2 | | 9/22 | 9/12 |
| IA1022 (SCN) | 5.5 | 4 | 6 | | 7 | 8 |
| Sheyenne (O) | -5.2 | -7 | -7 | | -1 | -3 |
| AR09-192004 | 4.4 | 7 | 8 | | 3 | 4 |
| AR09-192008 | 9.7 | 11 | 10 | | 9 | 12 |
| AR09-192010 | 9.4 | 12 | 10 | | 9 | 10 |
| AR09-192011 | 5.7 | 4 | 7 | | 7 | 9 |
| AR09-192012 | 8.4 | 9 | 9 | | 7 | 11 |
| AR09-192014 | 8.3 | 10 | 9 | | 7 | 10 |
| AR09-192018 | 7.4 | 11 | 9 | | 7 | 9 |
| M04-261037 | 7.1 | 10 | 6 | | 9 | 9 |
| M04-342124 | 2.7 | 4 | 5 | | 5 | 3 |
| M04-380106 | 0.3 | -1 | -1 | | 3 | 2 |
| M04-389079 | 2.2 | 4 | 3 | | 3 | 5 |
| MS05-130005 | -3.7 | -6 | -7 | | -3 | -3 |
| MS05-142008 | 5.0 | 2 | 7 | | 7 | 12 |
| MTC00-112-412-10 | 5.2 | 4 | 2 | | 7 | 10 |
| OAC 08-18C | 0.1 | -4 | -3 | | -1 | 1 |
| OAC 08-21C | -0.3 | -4 | -2 | | -1 | 1 |
| OAC 08-22C | 3.4 | 2 | -2 | | 7 | 3 |
| SD07CV-523 | -3.4 | -4 | -1 | | -1 | -3 |
| SD07CV-576 | 7.9 | 10 | 11 | | 7 | 8 |
| SD07CV-619 | -3.2 | -5 | -1 | | -1 | -3 |
| SD07CV-673 | 7.4 | 9 | 9 | | 7 | 10 |
| SD07CV-875 | 0.5 | -1 | 2 | | 5 | 0 |
| SD07CV-884 | 0.7 | -3 | 1 | | 3 | 1 |
| SD07CV-885 | 3.3 | 4 | 5 | | 3 | 5 |
| SD07CV-997 | 1.2 | -1 | 3 | | -3 | 2 |
| U07-237074 | 3.0 | 2 | 2 | | -1 | 3 |
| Date Planted | 5/19 | 5/6 | 5/26 | 5/30 | 5/16 | 5/6 |
| Days to Mature | 121 | 126 | 129 | | 129 | 129 |

PRELIMINARY TEST I, 2010

MATURITY (date)

| Strain | Beemer NE | Cotesfield NE | Phillips NE | Palmyra ONT | St. Hyacinthe Que. | Aurora SD | Watertown SD |
|------------------|--------------|------------------|----------------|----------------|--------------------------|--------------|-----------------|
| MN1410 (I) | 9/6 | | 9/7 | 9/14 | 9/25 | 9/22 | 9/27 |
| IA1022 (SCN) | 6 | | 5 | 5 | 4 | 2 | 8 |
| Sheyenne (0) | -2 | | -5 | -3 | -6 | -10 | -8 |
| AR09-192004 | 2 | | 3 | 6 | 6 | 2 | 3 |
| AR09-192008 | 9 | | 9 | 7 | 11 | 9 | 10 |
| AR09-192010 | 11 | | 9 | 8 | 10 | 6 | 9 |
| AR09-192011 | 5 | | 3 | 7 | 6 | 0 | 9 |
| AR09-192012 | 5 | | 8 | 7 | 11 | 6 | 11 |
| AR09-192014 | 9 | | 7 | 5 | 11 | 6 | 9 |
| AR09-192018 | 8 | | 3 | 12 | 7 | 2 | 6 |
| M04-261037 | 7 | | 7 | 7 | 4 | 6 | 6 |
| M04-342124 | 1 | | 1 | 5 | 3 | -2 | 2 |
| M04-380106 | 0 | | 0 | 5 | 0 | 0 | -6 |
| M04-389079 | 2 | | 0 | 5 | 2 | -2 | 0 |
| MS05-130005 | -2 | | -3 | -2 | -4 | -7 | 0 |
| MS05-142008 | 2 | | 4 | 5 | 3 | 1 | 7 |
| MTC00-112-412-10 | 5 | | 5 | 5 | 5 | 2 | 7 |
| OAC 08-18C | -1 | | 0 | 4 | 2 | 0 | 2 |
| OAC 08-21C | -4 | | 1 | 5 | 1 | 0 | 0 |
| OAC 08-22C | 4 | | 2 | 2 | 6 | 1 | 9 |
| SD07CV-523 | 0 | | -2 | -2 | -5 | -8 | -8 |
| SD07CV-576 | 9 | | 8 | 5 | 6 | 6 | 9 |
| SD07CV-619 | -4 | | -3 | 0 | -5 | -10 | 0 |
| SD07CV-673 | 8 | | 6 | 8 | 8 | 0 | 9 |
| SD07CV-875 | 1 | | -1 | 4 | 0 | -6 | 1 |
| SD07CV-884 | 0 | | 1 | 5 | 3 | -7 | 2 |
| SD07CV-885 | -1 | | -1 | 5 | 5 | 2 | 6 |
| SD07CV-997 | -2 | | -1 | 4 | 0 | 6 | 3 |
| U07-237074 | 1 | | 4 | 3 | 2 | 2 | 12 |
| Date Planted | 5/17 | 5/14 | 5/18 | 6/14 | 5/7 | 5/19 | 5/28 |
| Days to Mature | 112 | | 112 | 92 | 141 | 126 | 122 |

PRELIMINARY TEST I, 2010

LODGING (score)

| Strain | Mean 11 Tests | Kanawha IA | Lafayette IN | Ingham County MI | Lamberton MN | Waseca MN |
|------------------|---------------------|---------------|-----------------|------------------------|-----------------|--------------|
| MN1410 (I) | 1.8 | 2.0 | 1.0 | 1.0 | 2.5 | 2.0 |
| IA1022 (SCN) | 2.2 | 2.0 | 1.3 | 1.5 | 3.0 | 2.5 |
| Sheyenne (O) | 1.3 | 1.0 | 1.0 | 1.0 | 2.0 | 2.0 |
| AR09-192004 | 1.3 | 1.8 | 1.0 | 1.0 | 2.0 | 2.0 |
| AR09-192008 | 2.3 | 2.5 | 1.5 | 1.5 | 2.0 | 2.0 |
| AR09-192010 | 1.5 | 1.5 | 1.0 | 1.5 | 2.0 | 2.0 |
| AR09-192011 | 1.6 | 1.5 | 1.0 | 1.5 | 2.0 | 2.0 |
| AR09-192012 | 2.0 | 2.0 | 1.0 | 2.0 | 2.5 | 2.0 |
| AR09-192014 | 1.6 | 1.5 | 1.0 | 1.5 | 2.0 | 2.0 |
| AR09-192018 | 1.5 | 2.0 | 1.0 | 1.0 | 2.0 | 2.0 |
| M04-261037 | 2.4 | 2.8 | 2.0 | 2.0 | 2.0 | 2.0 |
| M04-342124 | 2.0 | 2.0 | 1.0 | 1.5 | 2.5 | 2.5 |
| M04-380106 | 2.3 | 2.0 | 1.8 | 2.0 | 2.0 | 2.0 |
| M04-389079 | 2.0 | 2.0 | 1.3 | 2.0 | 2.0 | 2.0 |
| MS05-130005 | 1.8 | 1.5 | 1.0 | 2.5 | 2.0 | 2.0 |
| MS05-142008 | 2.1 | 1.8 | 1.0 | 2.0 | 3.0 | 2.0 |
| MTC00-112-412-10 | 2.1 | 2.5 | 1.5 | 1.5 | 2.0 | 2.0 |
| OAC 08-18C | 2.0 | 1.8 | 1.0 | 2.0 | 2.0 | 2.0 |
| OAC 08-21C | 1.7 | 1.8 | 1.0 | 2.0 | 2.0 | 2.0 |
| OAC 08-22C | 2.3 | 2.0 | 1.3 | 2.0 | 2.0 | 2.0 |
| SD07CV-523 | 1.4 | 1.3 | 1.0 | 1.0 | 2.0 | 2.0 |
| SD07CV-576 | 2.7 | 2.3 | 1.5 | 2.5 | 3.0 | 2.0 |
| SD07CV-619 | 1.3 | 1.5 | 1.0 | 1.0 | 1.0 | 2.0 |
| SD07CV-673 | 1.5 | 1.5 | 1.0 | 1.5 | 2.0 | 2.0 |
| SD07CV-875 | 1.6 | 1.3 | 1.0 | 1.5 | 2.0 | 2.0 |
| SD07CV-884 | 1.8 | 2.0 | 1.0 | 2.0 | 2.0 | 2.0 |
| SD07CV-885 | 2.0 | 1.8 | 1.5 | 2.5 | 2.5 | 2.0 |
| SD07CV-997 | 1.5 | 1.5 | 1.0 | 1.5 | 2.0 | 2.0 |
| U07-237074 | 2.0 | 1.8 | 1.0 | 1.5 | 2.0 | 2.0 |

PRELIMINARY TEST I, 2010

LODGING (score)

| Strain | Beemer NE | Cotesfield NE | Phillips NE | Palmyra ONT | St. Hyacinthe Que. | Aurora SD | Watertown SD |
|------------------|--------------|------------------|----------------|----------------|--------------------------|--------------|-----------------|
| MN1410 (I) | 2.0 | | 1.5 | 1.0 | 3.5 | 2.0 | 1.0 |
| IA1022 (SCN) | 2.5 | | 1.5 | 1.0 | 4.0 | 3.0 | 2.0 |
| Sheyenne (O) | 1.0 | | 1.0 | 1.0 | 2.0 | 1.0 | 1.0 |
| AR09-192004 | 1.0 | | 1.0 | 1.0 | 2.0 | 1.0 | 1.0 |
| AR09-192008 | 3.0 | | 1.5 | 1.0 | 5.0 | 3.0 | 2.0 |
| AR09-192010 | 1.5 | | 1.0 | 1.0 | 3.5 | 1.0 | 1.0 |
| AR09-192011 | 1.0 | | 1.0 | 1.0 | 2.5 | 1.0 | 3.0 |
| AR09-192012 | 2.5 | | 1.0 | 1.0 | 4.0 | 2.0 | 2.0 |
| AR09-192014 | 1.5 | | 1.0 | 1.0 | 3.5 | 1.0 | 2.0 |
| AR09-192018 | 1.5 | | 1.0 | 1.0 | 3.5 | 1.0 | 1.0 |
| M04-261037 | 3.0 | | 2.0 | 1.0 | 5.0 | 2.0 | 3.0 |
| M04-342124 | 2.0 | | 1.5 | 1.0 | 4.5 | 2.0 | 2.0 |
| M04-380106 | 2.0 | | 2.0 | 1.0 | 4.0 | 3.0 | 3.0 |
| M04-389079 | 2.0 | | 1.0 | 1.0 | 5.0 | 2.0 | 2.0 |
| MS05-130005 | 1.5 | | 1.0 | 1.0 | 3.0 | 3.0 | 1.0 |
| MS05-142008 | 1.5 | | 1.5 | 1.0 | 4.0 | 4.0 | 1.0 |
| MTC00-112-412-10 | 3.0 | | 2.0 | 1.0 | 4.0 | 2.0 | 2.0 |
| OAC 08-18C | 1.5 | | 1.0 | 1.0 | 3.5 | 3.0 | 3.0 |
| OAC 08-21C | 1.5 | | 1.0 | 1.0 | 3.5 | 2.0 | 1.0 |
| OAC 08-22C | 2.5 | | 2.0 | 1.0 | 4.0 | 4.0 | 3.0 |
| SD07CV-523 | 1.0 | | 1.0 | 1.0 | 2.5 | 2.0 | 1.0 |
| SD07CV-576 | 3.5 | | 2.0 | 1.0 | 5.0 | 4.0 | 3.0 |
| SD07CV-619 | 1.0 | | 1.0 | 1.0 | 1.5 | 2.0 | 1.0 |
| SD07CV-673 | 1.0 | | 1.0 | 1.0 | 3.0 | 1.0 | 2.0 |
| SD07CV-875 | 1.0 | | 1.0 | 1.0 | 3.5 | 2.0 | 1.0 |
| SD07CV-884 | 1.0 | | 1.0 | 1.0 | 5.0 | 1.0 | 2.0 |
| SD07CV-885 | 2.0 | | 1.5 | 1.0 | 2.5 | 2.0 | 3.0 |
| SD07CV-997 | 1.0 | | 1.0 | 1.0 | 3.0 | 1.0 | 2.0 |
| U07-237074 | 2.0 | | 2.0 | 1.0 | 3.5 | 3.0 | 2.0 |

PRELIMINARY TEST I, 2010

PLANT HEIGHT (inches)

| Strain | Mean 10 Tests | Kanawha IA | Lafayette IN | Ingham County MI | Lamberton MN | Waseca MN |
|------------------|---------------------|---------------|-----------------|------------------------|-----------------|--------------|
| MN1410 (I) | 37 | 32 | 37 | 29 | 38 | 42 |
| IA1022 (SCN) | 36 | 31 | 36 | 33 | 39 | 38 |
| Sheyenne (O) | 32 | 25 | 29 | 28 | 32 | 37 |
| AR09-192004 | 35 | 36 | 36 | 33 | 37 | 37 |
| AR09-192008 | 38 | 37 | 38 | 37 | 37 | 43 |
| AR09-192010 | 37 | 37 | 38 | 36 | 38 | 40 |
| AR09-192011 | 35 | 33 | 35 | 32 | 38 | 40 |
| AR09-192012 | 37 | 36 | 38 | 36 | 39 | 41 |
| AR09-192014 | 40 | 36 | 39 | 35 | 41 | 48 |
| AR09-192018 | 36 | 36 | 37 | 30 | 37 | 43 |
| M04-261037 | 44 | 45 | 44 | 38 | 43 | 52 |
| M04-342124 | 36 | 34 | 38 | 32 | 36 | 42 |
| M04-380106 | 39 | 38 | 39 | 38 | 37 | 46 |
| M04-389079 | 35 | 34 | 36 | 30 | 36 | 40 |
| MS05-130005 | 36 | 31 | 35 | 32 | 35 | 41 |
| MS05-142008 | 42 | 35 | 40 | 38 | 39 | 48 |
| MTC00-112-412-10 | 41 | 37 | 41 | 38 | 36 | 51 |
| OAC 08-18C | 37 | 32 | 37 | 35 | 38 | 40 |
| OAC 08-21C | 35 | 34 | 35 | 33 | 37 | 41 |
| OAC 08-22C | 43 | 38 | 42 | 35 | 43 | 48 |
| SD07CV-523 | 35 | 31 | 34 | 32 | 35 | 41 |
| SD07CV-576 | 40 | 34 | 44 | 39 | 41 | 41 |
| SD07CV-619 | 31 | 29 | 33 | 28 | 32 | 40 |
| SD07CV-673 | 37 | 36 | 37 | 33 | 40 | 42 |
| SD07CV-875 | 38 | 33 | 39 | 35 | 36 | 45 |
| SD07CV-884 | 36 | 32 | 37 | 37 | 32 | 43 |
| SD07CV-885 | 39 | 35 | 38 | 38 | 36 | 46 |
| SD07CV-997 | 35 | 32 | 37 | 33 | 32 | 42 |
| U07-237074 | 34 | 29 | 31 | 34 | 28 | 38 |

PRELIMINARY TEST I, 2010

PLANT HEIGHT (inches)

| Strain | Beemer NE | Cotesfield NE | Phillips NE | Palmyra ONT | St. Hyacinthe Que. | Aurora SD | Watertown SD |
|------------------|--------------|------------------|----------------|----------------|--------------------------|--------------|-----------------|
| MN1410 (I) | | | 39 | 29 | 40 | 41 | 41 |
| IA1022 (SCN) | | | 34 | 29 | 36 | 39 | 42 |
| Sheyenne (O) | | | 28 | 35 | 36 | 38 | 36 |
| AR09-192004 | | | 32 | 29 | 38 | 40 | 34 |
| AR09-192008 | | | 36 | 31 | 36 | 46 | 39 |
| AR09-192010 | | | 34 | 29 | 34 | 42 | 40 |
| AR09-192011 | | | 32 | 29 | 35 | 38 | 39 |
| AR09-192012 | | | 33 | 29 | 36 | 45 | 39 |
| AR09-192014 | | | 39 | 27 | 43 | 47 | 44 |
| AR09-192018 | | | 32 | 30 | 37 | 37 | 37 |
| M04-261037 | | | 40 | 35 | 45 | 52 | 44 |
| M04-342124 | | | 33 | 33 | 38 | 40 | 39 |
| M04-380106 | | | 36 | 30 | 41 | 45 | 44 |
| M04-389079 | | | 30 | 30 | 35 | 39 | 36 |
| MS05-130005 | | | 35 | 25 | 36 | 44 | 41 |
| MS05-142008 | | | 39 | 39 | 39 | 49 | 50 |
| MTC00-112-412-10 | | | 40 | 32 | 45 | 49 | 44 |
| OAC 08-18C | | | 33 | 32 | 38 | 38 | 43 |
| OAC 08-21C | | | 33 | 28 | 37 | 42 | 35 |
| OAC 08-22C | | | 40 | 36 | 42 | 49 | 54 |
| SD07CV-523 | | | 31 | 30 | 34 | 39 | 40 |
| SD07CV-576 | | | 38 | 31 | 41 | 48 | 47 |
| SD07CV-619 | | | 26 | 26 | 31 | 35 | 32 |
| SD07CV-673 | | | 36 | 30 | 40 | 43 | 38 |
| SD07CV-875 | | | 35 | 29 | 44 | 43 | 40 |
| SD07CV-884 | | | 34 | 25 | 41 | 40 | 39 |
| SD07CV-885 | | | 35 | 35 | 39 | 46 | 40 |
| SD07CV-997 | | | 32 | 29 | 36 | 41 | 38 |
| U07-237074 | | | 32 | 32 | 33 | 41 | 37 |

PRELIMINARY TEST I, 2010

SEED QUALITY (score)

| Strain | Mean 8 Tests | Kanawha IA | Lafayette IN | Ingham County MI | Lamberton MN | Waseca MN |
|------------------|--------------------|---------------|-----------------|------------------------|-----------------|--------------|
| MN1410 (I) | 1.7 | 3.0 | 2.0 | | 1.0 | 1.0 |
| IA1022 (SCN) | 1.3 | 1.0 | 1.0 | | 2.0 | 1.0 |
| Sheyenne (O) | 2.1 | 2.0 | 3.0 | | 2.0 | 1.0 |
| AR09-192004 | 2.0 | 2.0 | 2.5 | | 1.0 | 1.0 |
| AR09-192008 | 1.5 | 1.0 | 1.5 | | 2.0 | 1.0 |
| AR09-192010 | 1.8 | 1.0 | 1.0 | | 2.0 | 1.0 |
| AR09-192011 | 1.4 | 1.0 | 1.0 | | 1.0 | 1.0 |
| AR09-192012 | 1.8 | 2.0 | 1.5 | | 1.0 | 1.0 |
| AR09-192014 | 1.6 | 1.0 | 1.5 | | 1.0 | 1.0 |
| AR09-192018 | 1.1 | 1.0 | 1.0 | | 1.0 | 1.0 |
| M04-261037 | 1.3 | 1.0 | 1.0 | | 1.0 | 1.0 |
| M04-342124 | 1.4 | 1.0 | 1.0 | | 1.0 | 1.0 |
| M04-380106 | 1.9 | 2.0 | 3.0 | | 1.0 | 1.0 |
| M04-389079 | 1.0 | 1.0 | 1.0 | | 1.0 | 1.0 |
| MS05-130005 | 2.3 | 2.0 | 3.0 | | 2.0 | 1.0 |
| MS05-142008 | 2.4 | 3.0 | 2.5 | | 1.0 | 1.0 |
| MTC00-112-412-10 | 1.9 | 3.0 | 2.0 | | 1.0 | 1.0 |
| OAC 08-18C | 1.8 | 4.0 | 2.5 | | 1.0 | 1.0 |
| OAC 08-21C | 1.3 | 2.0 | 2.5 | | 1.0 | 1.0 |
| OAC 08-22C | 1.7 | 3.0 | 3.0 | | 1.0 | 1.0 |
| SD07CV-523 | 1.4 | 2.0 | 1.5 | | 1.0 | 1.0 |
| SD07CV-576 | 1.4 | 1.0 | 2.0 | | 1.0 | 1.0 |
| SD07CV-619 | 1.8 | 2.0 | 2.5 | | 2.0 | 1.0 |
| SD07CV-673 | 1.8 | 2.0 | 1.5 | | 2.0 | 1.0 |
| SD07CV-875 | 1.3 | 1.0 | 1.5 | | 1.0 | 1.0 |
| SD07CV-884 | 1.6 | 2.0 | 1.5 | | 2.0 | 1.0 |
| SD07CV-885 | 1.2 | 1.0 | 1.5 | | 1.0 | 1.0 |
| SD07CV-997 | 1.6 | 1.0 | 1.5 | | 2.0 | 1.0 |
| U07-237074 | 1.3 | 1.0 | 1.0 | | 1.0 | 1.0 |

PRELIMINARY TEST I, 2010

SEED QUALITY (score)

| Strain | Beemer NE | Cotesfield NE | Phillips NE | Palmyra ONT | St. Hyacinthe Que. | Aurora SD | Watertown SD |
|------------------|--------------|------------------|----------------|----------------|--------------------------|--------------|-----------------|
| MN1410 (I) | | | 2.0 | 1.5 | | 1.0 | 2.0 |
| IA1022 (SCN) | | | 2.0 | 1.0 | | 1.0 | 1.0 |
| Sheyenne (O) | | | 4.0 | 1.5 | | 2.0 | 1.0 |
| AR09-192004 | | | 3.0 | 1.5 | | 2.0 | 3.0 |
| AR09-192008 | | | 2.0 | 1.5 | | 1.0 | 2.0 |
| AR09-192010 | | | 2.0 | 1.0 | | 3.0 | 3.0 |
| AR09-192011 | | | 2.0 | 1.5 | | 1.0 | 3.0 |
| AR09-192012 | | | 2.0 | 2.0 | | 2.0 | 3.0 |
| AR09-192014 | | | 2.0 | 1.0 | | 3.0 | 2.0 |
| AR09-192018 | | | 1.0 | 1.0 | | 2.0 | 1.0 |
| M04-261037 | | | 1.0 | 1.5 | | 2.0 | 2.0 |
| M04-342124 | | | 1.0 | 2.0 | | 2.0 | 2.0 |
| M04-380106 | | | 3.0 | 2.0 | | 1.0 | 2.0 |
| M04-389079 | | | 1.0 | 1.0 | | 1.0 | 1.0 |
| MS05-130005 | | | 3.0 | 2.0 | | 2.0 | 3.0 |
| MS05-142008 | | | 2.0 | 2.0 | | 4.0 | 4.0 |
| MTC00-112-412-10 | | | 2.0 | 1.5 | | 2.0 | 3.0 |
| OAC 08-18C | | | 2.0 | 1.5 | | 1.0 | 1.0 |
| OAC 08-21C | | | 1.0 | 1.0 | | 1.0 | 1.0 |
| OAC 08-22C | | | 2.0 | 1.5 | | 1.0 | 1.0 |
| SD07CV-523 | | | 2.0 | 1.0 | | 1.0 | 2.0 |
| SD07CV-576 | | | 2.0 | 1.5 | | 1.0 | 2.0 |
| SD07CV-619 | | | 2.0 | 1.0 | | 2.0 | 2.0 |
| SD07CV-673 | | | 2.0 | 1.0 | | 2.0 | 3.0 |
| SD07CV-875 | | | 1.0 | 1.0 | | 2.0 | 2.0 |
| SD07CV-884 | | | 2.0 | 1.5 | | 1.0 | 2.0 |
| SD07CV-885 | | | 1.0 | 1.0 | | 2.0 | 1.0 |
| SD07CV-997 | | | 2.0 | 1.0 | | 2.0 | 2.0 |
| U07-237074 | | | 2.0 | 1.0 | | 1.0 | 2.0 |

PRELIMINARY TEST I, 2010

SEED SIZE (g/100)

| Strain | Mean 11 Tests | Kanawha IA | Lafayette IN | Ingham County MI | Lamberton MN | Waseca MN |
|------------------|---------------------|---------------|-----------------|------------------------|-----------------|--------------|
| MN1410 (I) | 16.1 | 14.5 | 16.8 | 13.7 | 16.6 | 15.2 |
| IA1022 (SCN) | 14.6 | 12.9 | 15.3 | 12.6 | 16.0 | 13.9 |
| Sheyenne (O) | 16.2 | 15.0 | 16.3 | 13.8 | 17.0 | 15.5 |
| AR09-192004 | 15.0 | 13.8 | 14.3 | 14.6 | 13.5 | 14.0 |
| AR09-192008 | 16.5 | 14.8 | 15.9 | 16.3 | 16.9 | 15.6 |
| AR09-192010 | 15.9 | 13.6 | 14.2 | 15.0 | 16.4 | 14.9 |
| AR09-192011 | 16.2 | 15.2 | 15.3 | 13.6 | 16.1 | 15.4 |
| AR09-192012 | 14.5 | 13.6 | 13.5 | 12.8 | 15.9 | 14.2 |
| AR09-192014 | 16.2 | 15.3 | 16.4 | 14.1 | 16.2 | 16.1 |
| AR09-192018 | 15.6 | 13.9 | 14.9 | 13.8 | 15.2 | 15.2 |
| M04-261037 | 12.2 | 10.5 | 10.6 | 12.3 | 12.2 | 12.5 |
| M04-342124 | 11.9 | 10.6 | 10.9 | 11.8 | 11.7 | 11.0 |
| M04-380106 | 16.3 | 14.2 | 17.1 | 15.0 | 16.4 | 16.8 |
| M04-389079 | 16.1 | 14.4 | 15.0 | 15.1 | 15.4 | 16.9 |
| MS05-130005 | 16.5 | 15.2 | 15.8 | 15.8 | 17.5 | 15.9 |
| MS05-142008 | 17.6 | 15.8 | 18.3 | 15.6 | 17.6 | 17.1 |
| MTC00-112-412-10 | 15.2 | 13.7 | 15.4 | 14.0 | 15.6 | 16.2 |
| OAC 08-18C | 15.6 | 13.5 | 14.6 | 14.3 | 15.7 | 16.5 |
| OAC 08-21C | 16.1 | 14.1 | 14.5 | 14.5 | 16.9 | 16.3 |
| OAC 08-22C | 17.3 | 14.9 | 15.8 | 15.3 | 18.5 | 17.7 |
| SD07CV-523 | 14.1 | 13.0 | 14.1 | 11.3 | 13.9 | 13.4 |
| SD07CV-576 | 14.5 | 13.0 | 13.9 | 13.1 | 14.9 | 14.0 |
| SD07CV-619 | 15.1 | 13.7 | 15.8 | 12.7 | 15.4 | 15.0 |
| SD07CV-673 | 15.4 | 13.9 | 14.8 | 13.9 | 15.7 | 15.3 |
| SD07CV-875 | 16.6 | 14.5 | 15.5 | 14.8 | 16.5 | 17.1 |
| SD07CV-884 | 15.8 | 10.4 | 15.6 | 14.7 | 15.5 | 16.1 |
| SD07CV-885 | 13.4 | 12.2 | 12.1 | 13.0 | 14.4 | 13.7 |
| SD07CV-997 | 14.8 | 12.4 | 14.2 | 12.7 | 15.1 | 14.5 |
| U07-237074 | 13.5 | 12.3 | 13.3 | 13.2 | 13.4 | 11.6 |

PRELIMINARY TEST I, 2010

SEED SIZE (g/100)

| Strain | Beemer NE | Cotesfield NE | Phillips NE | Palmyra ONT | St. Hyacinthe Que. | Aurora SD | Watertown SD |
|------------------|--------------|------------------|----------------|----------------|--------------------------|--------------|-----------------|
| MN1410 (I) | 14.9 | 15.6 | 19.6 | 16.2 | 18.7 | 15.7 | |
| IA1022 (SCN) | 13.4 | 14.3 | 16.4 | 15.0 | 17.3 | 13.8 | |
| Sheyenne (O) | 15.9 | 16.9 | 18.6 | 15.3 | 18.1 | 15.3 | |
| AR09-192004 | 13.6 | 16.0 | 15.1 | 15.6 | 19.1 | 15.8 | |
| AR09-192008 | 12.5 | 16.6 | 17.3 | 16.6 | 21.0 | 17.7 | |
| AR09-192010 | 14.3 | 16.6 | 17.5 | 16.5 | 19.7 | 16.4 | |
| AR09-192011 | 14.3 | 17.3 | 18.5 | 16.6 | 19.5 | 16.2 | |
| AR09-192012 | 12.2 | 15.4 | 16.4 | 14.4 | 16.2 | 14.9 | |
| AR09-192014 | 14.8 | 15.5 | 18.0 | 16.6 | 19.4 | 15.6 | |
| AR09-192018 | 12.9 | 16.3 | 17.0 | 16.1 | 20.4 | 15.6 | |
| M04-261037 | 9.8 | 12.3 | 13.2 | 13.6 | 14.8 | 12.2 | |
| M04-342124 | 11.2 | 12.0 | 13.2 | 12.5 | 14.5 | 11.2 | |
| M04-380106 | 14.3 | 15.4 | 17.3 | 16.8 | 20.3 | 16.0 | |
| M04-389079 | 12.2 | 17.1 | 19.0 | 16.6 | 20.0 | 15.8 | |
| MS05-130005 | 13.9 | 15.0 | 19.9 | 17.3 | 18.7 | 16.7 | |
| MS05-142008 | 14.8 | 17.5 | 20.6 | 17.2 | 21.6 | 18.0 | |
| MTC00-112-412-10 | 12.5 | 15.1 | 16.3 | 16.2 | 18.0 | 14.2 | |
| OAC 08-18C | 13.0 | 15.3 | 17.3 | 15.6 | 20.3 | 15.7 | |
| OAC 08-21C | 13.8 | 17.9 | 17.9 | 15.8 | 19.6 | 16.2 | |
| OAC 08-22C | 16.6 | 16.1 | 20.0 | 16.0 | 21.3 | 17.7 | |
| SD07CV-523 | 13.2 | 15.9 | 17.6 | 13.0 | 16.0 | 13.5 | |
| SD07CV-576 | 14.2 | 16.2 | 17.0 | 14.7 | 15.0 | 13.6 | |
| SD07CV-619 | 13.3 | 15.3 | 18.0 | 14.9 | 17.8 | 14.6 | |
| SD07CV-673 | 13.7 | 15.3 | 17.7 | 15.8 | 18.8 | 14.7 | |
| SD07CV-875 | 13.5 | 16.1 | 18.2 | 18.6 | 20.6 | 16.9 | |
| SD07CV-884 | 13.7 | 15.9 | 19.0 | 17.4 | 19.6 | 16.1 | |
| SD07CV-885 | 10.8 | 12.6 | 13.3 | 14.5 | 16.9 | 13.5 | |
| SD07CV-997 | 12.1 | 16.5 | 17.0 | 15.4 | 18.9 | 14.0 | |
| U07-237074 | 12.7 | 12.8 | 15.7 | 14.0 | 16.8 | 13.2 | |

PRELIMINARY TEST I, 2010

PROTEIN (%)

| Strain | Mean | Kanawha IA | Lafayette IN | Lamberton MN | Waseca MN | Ingham | Phillips NE | Aurora SD | Watertown SD | Palmyra ONT |
|------------------|------------|---------------|-----------------|-----------------|--------------|--------------|----------------|--------------|-----------------|----------------|
| | 9 Tests | | | | | County MI | | | | |
| MN1410 (I) | 35.5 | 35.4 | 35.7 | 36.1 | 34.3 | 36.3 | 36.3 | 34.9 | 34.2 | 36.3 |
| IA1022 (SCN) | 33.9 | 33.4 | 34.0 | 34.6 | 32.2 | 34.6 | 34.1 | 33.5 | 35.3 | 33.2 |
| Shyenne (O) | 33.8 | 34.0 | 33.7 | 34.7 | 33.1 | 33.4 | 34.8 | 33.3 | 32.8 | 34.4 |
| AR09-192004 | 33.7 | 32.7 | 33.0 | 33.4 | 31.6 | 35.5 | 33.6 | 34.4 | 34.6 | 34.2 |
| AR09-192008 | 34.3 | 33.7 | 35.1 | 33.9 | 32.4 | 35.1 | 33.8 | 34.5 | 34.2 | 35.7 |
| AR09-192010 | 35.3 | 35.3 | 36.1 | 35.1 | 34.7 | 36.4 | 35.3 | 35.6 | 33.6 | 36.0 |
| AR09-192011 | 35.4 | 35.5 | 34.1 | 34.8 | 34.6 | 37.7 | 34.5 | 36.1 | 35.4 | 36.4 |
| AR09-192012 | 35.2 | 34.6 | 35.1 | 35.0 | 33.7 | 36.1 | 34.6 | 34.7 | 35.7 | 36.8 |
| AR09-192014 | 35.2 | 34.4 | 36.0 | 35.8 | 34.7 | 35.2 | 34.9 | 35.2 | 34.5 | 36.1 |
| AR09-192018 | 35.2 | 34.5 | 34.4 | 34.8 | 34.5 | 36.3 | 35.6 | 35.6 | 35.3 | 35.5 |
| M04-261037 | 36.1 | 35.4 | 36.6 | 35.9 | 35.1 | 38.0 | 34.9 | 35.4 | 36.1 | 37.8 |
| M04-342124 | 34.9 | 32.9 | 35.1 | 34.8 | 33.4 | 35.3 | 34.3 | 35.2 | 35.5 | 37.1 |
| M04-380106 | 35.7 | 35.9 | 36.3 | 35.1 | 34.9 | 37.2 | 35.8 | 34.7 | 35.0 | 36.2 |
| M04-389079 | 35.3 | 34.9 | 35.6 | 33.7 | 34.2 | 36.5 | 34.9 | 36.0 | 35.6 | 36.5 |
| MS05-130005 | 34.5 | 33.6 | 34.3 | 34.2 | 35.0 | 34.2 | 35.1 | 34.8 | 34.0 | 35.0 |
| MS05-142008 | 35.2 | 35.1 | 35.5 | 36.1 | 33.8 | 36.0 | 35.7 | 35.5 | 34.1 | 35.3 |
| MTC00-112-412-10 | 35.7 | 35.9 | 36.3 | 35.6 | 35.1 | 36.1 | 35.3 | 35.2 | 34.9 | 36.6 |
| OAC 08-18C | 35.3 | 34.4 | 34.9 | 35.2 | 34.9 | 37.1 | 34.9 | 35.0 | 35.3 | 36.4 |
| OAC 08-21C | 35.4 | 34.8 | 35.2 | 36.0 | 34.8 | 36.2 | 36.0 | 34.7 | 35.2 | 35.4 |
| OAC 08-22C | 35.5 | 34.8 | 35.3 | 35.9 | 34.2 | 35.9 | 35.3 | 35.3 | 35.2 | 37.4 |
| SD07CV-523 | 34.6 | 33.2 | 34.4 | 34.9 | 34.4 | 35.8 | 35.2 | 33.8 | 34.9 | 34.9 |
| SD07CV-576 | 35.0 | 34.6 | 35.7 | 35.9 | 33.8 | 34.7 | 35.5 | 34.0 | 36.0 | 34.7 |
| SD07CV-619 | 35.5 | 34.5 | 35.1 | 35.6 | 34.7 | 36.7 | 35.7 | 35.9 | 35.2 | 36.0 |
| SD07CV-673 | 35.5 | 35.1 | 36.0 | 35.7 | 35.3 | 35.6 | 35.6 | 34.7 | 36.0 | 35.9 |
| SD07CV-875 | 36.2 | 36.0 | 36.1 | 36.4 | 34.7 | 37.7 | 35.5 | 36.5 | 35.4 | 37.4 |
| SD07CV-884 | 35.3 | 34.9 | 35.4 | 34.9 | 34.7 | 36.3 | 35.5 | 34.9 | 35.2 | 35.9 |
| SD07CV-885 | 34.8 | 34.2 | 34.8 | 34.3 | 33.8 | 36.5 | 33.8 | 33.9 | 35.4 | 36.0 |
| SD07CV-997 | 34.7 | 33.8 | 33.8 | 35.1 | 35.0 | 36.5 | 34.6 | 34.5 | 34.3 | 35.1 |
| U07-237074 | 35.3 | 35.3 | 35.4 | 35.4 | 34.5 | 36.2 | 36.2 | 34.3 | 34.2 | 36.7 |

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

PRELIMINARY TEST I, 2010

OIL (%)

| Strain | Mean | Kanawha IA | Lafayette IN | Lamberton MN | Waseca MN | Ingham | Phillips NE | Aurora SD | Watertown SD | Palmyra ONT |
|------------------|------------|---------------|-----------------|-----------------|--------------|--------------|----------------|--------------|-----------------|----------------|
| | 9 Tests | | | | | County MI | | | | |
| MN1410 (I) | 18.0 | 18.5 | 17.9 | 17.7 | 18.0 | 17.4 | 18.0 | 18.4 | 16.8 | 18.9 |
| IA1022 (SCN) | 19.3 | 19.6 | 19.2 | 19.3 | 19.9 | 18.3 | 19.3 | 19.3 | 17.7 | 20.7 |
| Shenandoah (O) | 18.9 | 19.2 | 18.3 | 18.1 | 18.7 | 18.6 | 18.7 | 19.0 | 19.3 | 19.7 |
| AR09-192004 | 18.2 | 17.9 | 18.3 | 18.2 | 18.2 | 17.8 | 18.8 | 18.1 | 17.3 | 18.7 |
| AR09-192008 | 17.6 | 17.4 | 17.8 | 17.7 | 17.8 | 16.6 | 17.9 | 17.4 | 17.3 | 18.7 |
| AR09-192010 | 17.6 | 16.7 | 17.1 | 17.7 | 18.1 | 17.2 | 18.0 | 17.9 | 16.7 | 19.1 |
| AR09-192011 | 17.5 | 17.9 | 17.7 | 17.1 | 17.8 | 15.6 | 18.1 | 18.2 | 16.9 | 18.4 |
| AR09-192012 | 17.7 | 18.3 | 17.5 | 18.2 | 17.6 | 17.1 | 18.4 | 17.5 | 16.7 | 17.6 |
| AR09-192014 | 17.8 | 18.1 | 17.8 | 17.6 | 18.0 | 17.1 | 18.0 | 17.5 | 17.4 | 18.5 |
| AR09-192018 | 18.0 | 18.1 | 18.4 | 17.6 | 18.4 | 16.6 | 18.7 | 18.0 | 17.6 | 18.3 |
| M04-261037 | 16.8 | 16.8 | 15.8 | 16.4 | 17.0 | 16.0 | 17.3 | 17.8 | 17.2 | 17.4 |
| M04-342124 | 17.9 | 18.6 | 17.9 | 17.3 | 17.9 | 17.7 | 18.4 | 17.9 | 16.5 | 18.5 |
| M04-380106 | 17.6 | 17.4 | 17.3 | 17.3 | 17.7 | 16.1 | 19.0 | 17.1 | 17.4 | 19.0 |
| M04-389079 | 18.1 | 18.3 | 18.0 | 17.8 | 18.7 | 17.5 | 18.8 | 18.6 | 16.6 | 18.4 |
| MS05-130005 | 18.6 | 19.0 | 18.4 | 18.4 | 18.8 | 18.3 | 18.7 | 18.2 | 17.9 | 19.7 |
| MS05-142008 | 17.3 | 17.2 | 17.0 | 18.4 | 17.2 | 16.5 | 17.4 | 17.1 | 16.8 | 18.4 |
| MTC00-112-412-10 | 17.2 | 17.1 | 16.6 | 17.2 | 17.5 | 16.7 | 17.2 | 17.9 | 16.9 | 18.1 |
| OAC 08-18C | 17.8 | 17.8 | 17.5 | 17.4 | 17.7 | 18.2 | 17.9 | 18.6 | 17.1 | 18.0 |
| OAC 08-21C | 17.9 | 17.9 | 17.3 | 18.3 | 17.6 | 17.4 | 18.9 | 18.0 | 17.1 | 18.4 |
| OAC 08-22C | 18.5 | 18.7 | 18.6 | 18.3 | 18.8 | 17.5 | 18.9 | 19.0 | 18.3 | 18.0 |
| SD07CV-523 | 18.8 | 19.5 | 18.9 | 19.0 | 18.8 | 18.0 | 18.9 | 18.9 | 17.6 | 19.7 |
| SD07CV-576 | 18.5 | 18.4 | 18.1 | 18.0 | 18.6 | 18.2 | 19.0 | 18.5 | 18.4 | 19.3 |
| SD07CV-619 | 18.0 | 18.6 | 17.4 | 17.7 | 17.8 | 18.1 | 18.3 | 18.3 | 16.9 | 19.2 |
| SD07CV-673 | 18.2 | 18.1 | 18.3 | 17.7 | 18.8 | 18.0 | 17.8 | 18.5 | 18.6 | 18.4 |
| SD07CV-875 | 17.6 | 17.1 | 17.4 | 18.0 | 17.6 | 16.3 | 17.7 | 18.6 | 17.3 | 18.1 |
| SD07CV-884 | 18.4 | 18.4 | 18.4 | 18.2 | 18.5 | 18.8 | 18.4 | 18.5 | 17.9 | 19.0 |
| SD07CV-885 | 17.7 | 17.4 | 17.9 | 17.7 | 17.8 | 16.9 | 18.4 | 18.1 | 16.8 | 18.0 |
| SD07CV-997 | 18.6 | 18.4 | 18.5 | 18.7 | 18.6 | 17.7 | 18.7 | 18.8 | 17.9 | 19.9 |
| U07-237074 | 17.6 | 17.5 | 17.1 | 17.3 | 17.5 | 17.9 | 17.5 | 18.3 | 17.6 | 17.4 |

Uniform Test II, 2010

| Ent. | Strain | Parentage | Seed Source | Previous Testing | Gen. Comp. | Unique Traits |
|------|---------------|---|-------------|------------------|------------|---------------|
| 1. | IA2094 (II) | AgriPro X0121B74 x A00-711036 | Fehr | 2 | F4 | |
| 2. | IA1022 (SCN) | Dairyland 98822 x A00-711024 | Fehr | 2 | F5 | SCN |
| 3. | IA3024 | A97-553017 x Pioneer YB33A99 | Fehr | 3 | | 1% linolenic |
| 4. | IA2101 | IA3024 x AgriPro 97177-N00-22972 | Fehr | new | | 1% linolenic |
| 5. | A07-626002 | A02-136030 x Dairyland 99540 | Fehr | 1 | F4 | |
| 6. | A08-248020 | A04-545015 x AgriPro 98180-A01-06131 | Fehr | PTIIA | F4 | |
| 7. | A08-248043 | A04-545045 x AgriPro 98180-A01-0613 | Fehr | PTIIA | F4 | |
| 8. | AR07-276022 | AR02-101001 x Soy04-11 | Cianzio | 1 | F4 | BSR |
| 9. | AR08-186020 | Garst-Agripro 98180-A01-06131 x AR03-361067 | Cianzio | PTIIB | F3 | BSR |
| 10. | AR08-286003 | Garst-Agripro 98620-B01-51163 x AR02-101001 | Cianzio | PTIIB | F3 | BSR |
| 11. | E07048 | IA3017 x Loda | Wang | 09SCN PTII | F5 | SCN res |
| 12. | E07087 | Loda x IA2066 | Wang | 09SCN PTII | F5 | SCN res |
| 13. | LD05- 1540 | S25-J5 x SS98-3403 | Diers | 09 SCN UT II | F5 | SCN |
| 14. | MLG03-4069017 | A99-217006 x LG98-1445 | Orf | PTIIA | | Diversity |
| 15. | U06-100136 | CLOJ173-6 x U98-307917 | Graef | PTIIB | F5 | dt |
| 16. | U06-103421 | NE2801 x U01-290680 | Graef | PTIIB | F4 | |

UNIFORM TEST II, 2010

DESCRIPTIVE AND DISEASE DATA

| Strain | Descriptive Code | <u>Chlorosis</u> | | <u>Shattering</u> | <u>Green Stem</u> |
|---------------|------------------|------------------|---------------|-------------------|-------------------|
| | | Score | | Score | Score |
| | | Humboldt IA | Danvers MN | Manhattan KS | Harow Ont. |
| IA2094 (II) | PTTSYYI | 3.4 | 2.8 | 2.0 | 1.0 |
| IA1022 (SCN) | PGTIYYI | 2.9 | 2.5 | 3.0 | 1.0 |
| IA3024 | PGTDYIbI | 2.9 | 2.5 | 3.0 | 1.0 |
| IA2101 | PGTDYIbI | 3.0 | 3.0 | 2.0 | 1.0 |
| A07-626002 | WGTDYYI | 2.8 | 3.0 | 2.0 | 1.0 |
| A08-248020 | PTTIYYI | 3.0 | 3.8 | 2.0 | 1.0 |
| A08-248043 | WGTDYBf+YI | 3.1 | 2.8 | 2.0 | 1.0 |
| AR07-276022 | WTBDYBI+BrI | 3.1 | 3.5 | 3.0 | 1.0 |
| AR08-186020 | PLtTDYBrI | 2.6 | 3.0 | 3.0 | 1.0 |
| AR08-286003 | PTBDYBr+BII | 3.0 | 2.5 | 2.0 | 1.0 |
| E07048 | PGBDYGrI | 2.6 | 4.3 | 1.0 | 1.0 |
| E07087 | PTBDYBII | 2.9 | 4.3 | 2.0 | 1.0 |
| LD05- 1540 | WTBDYBII | 3.0 | 3.0 | 2.0 | 1.0 |
| MLG03-4069017 | PTBDYBII | 2.8 | 3.0 | 2.0 | 1.0 |
| U06-100136 | WLtTDYBID | 2.8 | 3.0 | 1.0 | 1.0 |
| U06-103421 | WGTSYBfD | 3.0 | 2.5 | 1.0 | 1.0 |

UNIFORM TEST II, 2010

DESCRIPTIVE AND DISEASE DATA

| Strain | <u>Green Stem</u> | <u>PR</u> | | <u>FE</u> | <u>SDS*</u> |
|---------------|-------------------|-----------|------|-----------|-------------|
| | Score | Lafayette | | Laf. | DX |
| | Lafayette | Race | Race | a | Havana |
| | IN | 4 | 7 | rx. | IL |
| IA2094 (II) | 1.0 | S | S | S | |
| IA1022 (SCN) | 1.0 | S | S | S | |
| IA3024 | 1.0 | R* | R* | S | |
| IA2101 | 1.0 | S | S | S | |
| A07-626002 | 1.0 | S | S | S | |
| A08-248020 | 1.0 | S | S | S | |
| A08-248043 | 1.0 | S | S | S | |
| AR07-276022 | 1.0 | R* | R* | S | |
| AR08-186020 | 1.0 | S | S | S | |
| AR08-286003 | 1.0 | S | S | S | |
| E07048 | 1.0 | R* | R* | S | |
| E07087 | 1.0 | S | S | S | |
| LD05- 1540 | 1.0 | x | x | S | |
| MLG03-4069017 | 1.0 | S | R* | S | |
| U06-100136 | 1.0 | R* | S | S | |
| U06-103421 | 1.0 | R* | R* | - | |

PR: * = *P. sojae* inoc. Reaction NOT compatible with breeder's information about *Rps* Trait

FE: S = susceptible, - = lesions not detected, x = no data

* Insufficient disease for SDS rating

UNIFORM TEST II, 2010

REGIONAL SUMMARY

| No. of Tests Strain | Yield 18 bu/a | Rank 18 No. | Maturity 16 Date | Lodging 18 Score | Plant Height 17 In. | Seed Quality 13 Score | Seed Size 19 g/100 | Composition | |
|------------------------|---------------------|-------------------|------------------------|------------------------|------------------------------|--------------------------------|-----------------------------|--------------------|----------------|
| | | | | | | | | Protein 15 % | Oil 15 % |
| IA2094 (II) | 64.1 | 5 | 9/17 | 1.6 | 35 | 1.3 | 14.7 | 34.8 | 17.9 |
| IA1022 (SCN) | 59.7 | 14 | -4.9 | 1.8 | 33 | 1.5 | 14.2 | 33.4 | 19.5 |
| IA3024 | 64.8 | 3 | 6.1 | 1.6 | 37 | 1.6 | 14.7 | 32.5 | 18.6 |
| IA2101 | 63.4 | 8 | 3.7 | 1.5 | 37 | 1.7 | 16.2 | 33.8 | 17.8 |
| A07-626002 | 65.1 | 2 | 5.4 | 1.6 | 35 | 1.3 | 13.6 | 33.9 | 18.0 |
| A08-248020 | 63.5 | 7 | 3.1 | 1.7 | 37 | 1.4 | 14.7 | 35.1 | 17.7 |
| A08-248043 | 67.3 | 1 | 2.3 | 1.8 | 36 | 1.5 | 14.7 | 34.8 | 17.8 |
| AR07-276022 | 63.2 | 10 | 3.3 | 1.3 | 34 | 1.4 | 13.5 | 34.5 | 17.4 |
| AR08-186020 | 61.6 | 12 | 0.4 | 1.6 | 36 | 1.4 | 15.3 | 35.2 | 17.4 |
| AR08-286003 | 64.6 | 4 | 4.7 | 1.4 | 37 | 1.6 | 15.2 | 35.3 | 18.0 |
| E07048 | 63.7 | 6 | 4.6 | 2.2 | 36 | 1.9 | 14.7 | 33.6 | 18.1 |
| E07087 | 55.8 | 16 | -0.5 | 1.5 | 37 | 1.8 | 13.4 | 33.7 | 17.9 |
| LD05- 1540 | 63.4 | 8 | 0.5 | 1.3 | 37 | 1.3 | 15.3 | 34.5 | 18.6 |
| MLG03-4069017 | 62.6 | 11 | 0.3 | 1.6 | 38 | 1.4 | 15.9 | 34.6 | 18.0 |
| U06-100136 | 60.9 | 13 | 6.7 | 1.4 | 34 | 1.3 | 12.7 | 33.5 | 17.5 |
| U06-103421 | 58.4 | 15 | -1.5 | 1.6 | 32 | 1.3 | 13.7 | 33.6 | 18.8 |

119.2 Days After Planting

UNIFORM TEST II, 2010

2008-2009 2-YEAR MEAN

| No. of Tests Strain | Yield 38 bu/a | Rank 38 No. | Maturity 33 Date | Lodging 35 Score | Plant Height 33 In. | Seed Quality 25 Score | Seed Size 37 g/100 | Composition | |
|------------------------|---------------------|-------------------|------------------------|------------------------|------------------------------|--------------------------------|-----------------------------|--------------------|----------------|
| | | | | | | | | Protein 29 % | Oil 29 % |
| IA2094 (II) | 63.5 | 4 | 9/19 | 1.4 | 34 | 1.4 | 16.0 | 34.5 | 17.9 |
| IA1022 (SCN) | 58.4 | 5 | -4.5 | 1.6 | 31 | 1.5 | 15.4 | 33.3 | 19.5 |
| IA3024 | 64.7 | 2 | 5.2 | 1.4 | 35 | 1.4 | 16.3 | 32.4 | 18.4 |
| A07-626002 | 65.2 | 1 | 4.4 | 1.4 | 34 | 1.3 | 14.8 | 33.8 | 18.1 |
| AR07-276022 | 64.2 | 3 | 3.3 | 1.2 | 31 | 1.5 | 15.3 | 34.2 | 17.6 |

122.7 Days After Planting

UNIFORM TEST II, 2010

YIELD (bu/a)

| Strain | Mean 18 Tests | Ames IA | Ripsey IA | Finch Farms IA | Dekalb IL | Urbana IL | Lafayette IN | Wanatah* IN | Ingham County MI | Lenawee County MI | Lamberton MN |
|---------------|---------------------|------------|--------------|----------------------|--------------|--------------|-----------------|----------------|------------------------|-------------------------|-----------------|
| IA2094 (II) | 64.1 | 68.9 | 57.8 | 61.2 | 66.6 | 47.8 | 68.8 | 39.8 | 48.2 | 53.0 | 65.5 |
| IA1022 (SCN) | 59.7 | 56.9 | 53.3 | 53.0 | 70.1 | 29.5 | 65.4 | 41.3 | 46.5 | 59.6 | 67.1 |
| IA3024 | 64.8 | 61.7 | 50.8 | 57.6 | 64.4 | 59.6 | 66.2 | 44.0 | 45.0 | 53.9 | 61.3 |
| IA2101 | 63.4 | 62.6 | 52.8 | 57.6 | 67.1 | 58.1 | 68.6 | 49.4 | 44.5 | 52.8 | 59.9 |
| A07-626002 | 65.1 | 61.8 | 54.9 | 65.6 | 69.0 | 60.0 | 65.9 | 46.1 | 54.4 | 48.4 | 64.1 |
| A08-248020 | 63.5 | 65.9 | 52.6 | 62.4 | 68.8 | 56.8 | 66.1 | 39.8 | 46.7 | 52.5 | 66.6 |
| A08-248043 | 67.3 | 68.8 | 65.5 | 60.8 | 73.6 | 58.0 | 73.1 | 38.5 | 52.9 | 58.2 | 74.7 |
| AR07-276022 | 63.2 | 62.5 | 45.2 | 68.7 | 71.0 | 54.5 | 60.9 | 38.1 | 49.6 | 52.6 | 67.9 |
| AR08-186020 | 61.6 | 59.0 | 59.6 | 53.3 | 67.2 | 47.0 | 64.8 | 39.4 | 49.1 | 48.4 | 62.3 |
| AR08-286003 | 64.6 | 61.7 | 49.7 | 59.6 | 69.2 | 59.5 | 69.3 | 45.4 | 46.7 | 52.6 | 63.7 |
| E07048 | 63.7 | 67.4 | 48.3 | 61.8 | 67.3 | 58.3 | 68.9 | 40.0 | 45.2 | 57.3 | 65.5 |
| E07087 | 55.8 | 54.9 | 45.8 | 51.3 | 60.6 | 43.1 | 57.3 | 37.4 | 39.1 | 48.1 | 53.6 |
| LD05- 1540 | 63.4 | 62.4 | 48.8 | 57.9 | 68.8 | 59.5 | 67.4 | 41.4 | 44.6 | 51.3 | 75.5 |
| MLG03-4069017 | 62.6 | 59.9 | 57.1 | 60.1 | 70.3 | 51.3 | 60.2 | 45.6 | 43.5 | 53.0 | 55.3 |
| U06-100136 | 60.9 | 62.5 | 50.4 | 60.0 | 67.8 | 58.2 | 52.0 | 37.7 | 46.0 | 47.6 | 64.8 |
| U06-103421 | 58.4 | 55.4 | 52.3 | 56.3 | 66.7 | 38.1 | 59.7 | 27.8 | 45.0 | 47.9 | 59.7 |
| Location Mean | | 62.0 | 52.8 | 59.2 | 68.0 | 52.5 | 64.7 | 40.7 | 46.7 | 52.3 | 64.2 |
| C.V. (%) | | 4.1 | 8.1 | 4.3 | 4.2 | 7.8 | 5.5 | 15.2 | 11.1 | 7.1 | 11.4 |
| L.S.D. (5%) | | 5.4 | 9.1 | 9.5 | 6.2 | 8.8 | 6.0 | 10.3 | 9.0 | 6.5 | 12.2 |
| Row Sp. (In.) | | 27 | 27 | 30 | 30 | 30 | 30 | 30 | 15 | 15 | 10 |
| Rows/Plot | | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 6 | 6 | 10 |
| Reps | | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 2 | 2 | 3 |

*Data not included in mean.

UNIFORM TEST II, 2010

YIELD (bu/a)

| Strain | Waseca MN | Beemer NE | Cotesfield NE | Phillips NE | Hoytville OH | Wooster OH | Chatham ONT | Harrow ONT | Aurora SD |
|---------------|--------------|--------------|------------------|----------------|-----------------|---------------|----------------|---------------|--------------|
| IA2094 (II) | 62.4 | 74.4 | 94.1 | 98.6 | 59.8 | 34.6 | 71.7 | 65.5 | 54.6 |
| IA1022 (SCN) | 59.5 | 71.1 | 70.2 | 87.6 | 56.6 | 33.7 | 73.8 | 63.9 | 57.7 |
| IA3024 | 59.8 | 77.8 | 105.0 | 103.3 | 54.7 | 51.3 | 76.8 | 60.6 | 55.9 |
| IA2101 | 59.0 | 68.6 | 84.7 | 104.7 | 61.7 | 45.1 | 75.2 | 66.2 | 52.0 |
| A07-626002 | 63.6 | 75.8 | 97.4 | 104.2 | 57.1 | 36.6 | 73.4 | 66.3 | 54.1 |
| A08-248020 | 63.9 | 72.9 | 84.6 | 95.7 | 58.0 | 41.8 | 73.3 | 61.7 | 52.5 |
| A08-248043 | 65.4 | 79.5 | 87.0 | 99.1 | 59.8 | 40.9 | 76.6 | 62.4 | 55.8 |
| AR07-276022 | 63.1 | 67.5 | 87.0 | 90.2 | 53.6 | 43.3 | 74.9 | 67.9 | 58.0 |
| AR08-186020 | 56.6 | 71.4 | 88.4 | 95.6 | 58.4 | 42.6 | 78.3 | 60.4 | 47.0 |
| AR08-286003 | 71.4 | 69.0 | 84.4 | 101.3 | 57.4 | 44.0 | 78.5 | 68.4 | 56.8 |
| E07048 | 58.8 | 71.5 | 92.6 | 84.7 | 52.7 | 46.4 | 77.7 | 66.3 | 55.8 |
| E07087 | 54.7 | 54.3 | 89.5 | 79.9 | 48.9 | 47.8 | 70.7 | 57.6 | 47.5 |
| LD05- 1540 | 63.1 | 67.8 | 91.7 | 95.3 | 63.5 | 37.4 | 72.6 | 60.5 | 53.2 |
| MLG03-4069017 | 65.1 | 68.6 | 84.9 | 96.8 | 62.0 | 41.1 | 76.9 | 68.8 | 51.6 |
| U06-100136 | 58.8 | 63.5 | 91.0 | 92.8 | 52.1 | 32.0 | 75.1 | 61.2 | 60.2 |
| U06-103421 | 54.4 | 70.3 | 85.5 | 91.7 | 62.4 | 27.8 | 73.5 | 60.1 | 44.2 |
| Location Mean | 61.2 | 70.3 | 88.6 | 95.1 | 57.4 | 40.4 | 74.9 | 63.6 | 53.5 |
| C.V. (%) | 9.6 | 5.4 | 7.4 | 4.6 | 9.2 | 12.2 | 7.6 | 5.0 | 5.6 |
| L.S.D. (5%) | 9.8 | 9.3 | 16.2 | 10.8 | 8.8 | 8.1 | 7.9 | 4.1 | 5.0 |
| Row Sp. (In.) | 10 | 30 | 30 | 30 | 7.5 | 7.5 | 17 | 18 | 30 |
| Rows/Plot | 10 | 4 | 4 | 4 | 8 | 8 | 5 | 5 | 4 |
| Reps | 3 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 |

UNIFORM TEST II, 2010

YIELD RANK

| Strain | Yield Rank | Ames IA | Ripley IA | Finch Farms IA | Dekalb IL | Urbana IL | Lafayette IN | Wanatah IN | Ingham County MI | Lenawee County MI | Lamberton MN |
|---------------|------------|---------|-----------|----------------|-----------|-----------|--------------|------------|------------------|-------------------|--------------|
| IA2094 (II) | 5 | 1 | 3 | 5 | 14 | 12 | 4 | 9 | 5 | 5 | 6 |
| IA1022 (SCN) | 14 | 14 | 6 | 15 | 4 | 16 | 10 | 7 | 8 | 1 | 4 |
| IA3024 | 3 | 10 | 10 | 11 | 15 | 2 | 7 | 5 | 11 | 4 | 12 |
| IA2101 | 8 | 5 | 7 | 12 | 12 | 7 | 5 | 1 | 14 | 7 | 13 |
| A07-626002 | 2 | 9 | 5 | 2 | 6 | 1 | 9 | 2 | 1 | 12 | 9 |
| A08-248020 | 7 | 4 | 8 | 3 | 7 | 9 | 8 | 10 | 6 | 10 | 5 |
| A08-248043 | 1 | 2 | 1 | 6 | 1 | 8 | 1 | 12 | 2 | 2 | 2 |
| AR07-276022 | 10 | 6 | 16 | 1 | 2 | 10 | 12 | 13 | 3 | 8 | 3 |
| AR08-186020 | 12 | 13 | 2 | 14 | 11 | 13 | 11 | 11 | 4 | 13 | 11 |
| AR08-286003 | 4 | 10 | 12 | 9 | 5 | 3 | 2 | 4 | 7 | 9 | 10 |
| E07048 | 6 | 3 | 14 | 4 | 10 | 5 | 3 | 8 | 10 | 3 | 6 |
| E07087 | 16 | 16 | 15 | 16 | 16 | 14 | 15 | 15 | 16 | 14 | 16 |
| LD05- 1540 | 8 | 8 | 13 | 10 | 7 | 3 | 6 | 6 | 13 | 11 | 1 |
| MLG03-4069017 | 11 | 12 | 4 | 7 | 3 | 11 | 13 | 3 | 15 | 6 | 15 |
| U06-100136 | 13 | 6 | 11 | 8 | 9 | 6 | 16 | 14 | 9 | 16 | 8 |
| U06-103421 | 15 | 15 | 9 | 13 | 13 | 15 | 14 | 16 | 12 | 15 | 14 |

UNIFORM TEST II, 2010

MATURITY (date)

| Strain | Mean 16 Tests | Ames IA | Ripley IA | Finch Farms IA | Dekalb IL | Urbana IL | Lafayette IN | Wanatah IN | Ingham County MI | Lenawee County MI | Lamberton MN |
|----------------|---------------|---------|-----------|----------------|-----------|-----------|--------------|------------|------------------|-------------------|--------------|
| IA2094 (II) | 9/17 | 9/15 | | 9/17 | 9/20 | 9/1 | 9/11 | 9/18 | | 9/17 | 10/2 |
| IA1022 (SCN) | -4.9 | -8 | | -4 | -4 | -5 | -5 | -11 | | -3 | -2 |
| IA3024 | 6.1 | 2 | | 8 | 7 | 10 | 8 | 6 | | 6 | 4 |
| IA2101 | 3.7 | 0 | | 4 | 5 | 7 | 5 | 3 | | 3 | 1 |
| A07-626002 | 5.4 | 4 | | 8 | 5 | 8 | 5 | 6 | | 5 | 3 |
| A08-248020 | 3.1 | 1 | | 4 | 2 | 4 | 1 | 2 | | 5 | 4 |
| A08-248043 | 2.3 | 0 | | 1 | 4 | 2 | 2 | -2 | | 5 | 4 |
| AR07-276022 | 3.3 | 2 | | 1 | 3 | 8 | 4 | 5 | | 5 | 1 |
| AR08-186020 | 0.4 | -2 | | 1 | 2 | -1 | -1 | -5 | | 3 | 2 |
| AR08-286003 | 4.7 | 3 | | 4 | 4 | 7 | 7 | 5 | | 5 | 3 |
| E07048 | 4.6 | 5 | | 12 | 7 | 6 | -1 | 1 | | 7 | 3 |
| E07087 | -0.5 | -2 | | -1 | 2 | 0 | -2 | 0 | | 1 | -2 |
| LD05- 1540 | 0.5 | -2 | | -3 | 2 | 4 | 0 | 1 | | 1 | -1 |
| MLG03-4069017 | 0.3 | -2 | | -2 | 0 | 1 | 1 | -1 | | 2 | -1 |
| U06-100136 | 6.7 | 7 | | 13 | 8 | 11 | 8 | 6 | | 5 | 5 |
| U06-103421 | -1.5 | -5 | | -3 | 2 | -2 | -2 | -4 | | 2 | -4 |
| Date Planted | 5/21 | 5/5 | 5/18 | 5/4 | 5/24 | 5/10 | 5/26 | 6/10 | 5/30 | 6/8 | 5/16 |
| Days to Mature | 119 | 133 | | 136 | 119 | 114 | 108 | 100 | | 101 | 139 |

UNIFORM TEST II, 2010

YIELD RANK

| Strain | Waseca MN | Beemer NE | Cotesfield NE | Phillips NE | Hoytville OH | Wooster OH | Chatham ONT | Harrow ONT | Aurora SD |
|---------------|--------------|--------------|------------------|----------------|-----------------|---------------|----------------|---------------|--------------|
| IA2094 (II) | 8 | 4 | 3 | 6 | 5 | 13 | 15 | 7 | 8 |
| IA1022 (SCN) | 10 | 8 | 16 | 14 | 11 | 14 | 10 | 8 | 3 |
| IA3024 | 9 | 2 | 1 | 3 | 12 | 1 | 5 | 12 | 5 |
| IA2101 | 11 | 11 | 13 | 1 | 4 | 4 | 7 | 6 | 12 |
| A07-626002 | 5 | 3 | 2 | 2 | 10 | 12 | 12 | 4 | 9 |
| A08-248020 | 4 | 5 | 14 | 8 | 8 | 8 | 13 | 10 | 11 |
| A08-248043 | 2 | 1 | 9 | 5 | 5 | 10 | 6 | 9 | 6 |
| AR07-276022 | 6 | 14 | 9 | 13 | 13 | 6 | 9 | 3 | 2 |
| AR08-186020 | 14 | 7 | 8 | 9 | 7 | 7 | 2 | 13 | 15 |
| AR08-286003 | 1 | 10 | 15 | 4 | 9 | 5 | 1 | 2 | 4 |
| E07048 | 12 | 6 | 4 | 15 | 14 | 3 | 3 | 5 | 7 |
| E07087 | 15 | 16 | 7 | 16 | 16 | 2 | 16 | 16 | 14 |
| LD05- 1540 | 6 | 13 | 5 | 10 | 1 | 11 | 14 | 14 | 10 |
| MLG03-4069017 | 3 | 11 | 12 | 7 | 3 | 9 | 4 | 1 | 13 |
| U06-100136 | 12 | 15 | 6 | 11 | 15 | 15 | 8 | 11 | 1 |
| U06-103421 | 16 | 9 | 11 | 12 | 2 | 16 | 11 | 15 | 16 |

UNIFORM TEST II, 2010

MATURITY (date)

| Strain | Waseca MN | Beemer NE | Cotesfield NE | Phillips NE | Hoytville OH | Wooster OH | Chatham ONT | Harrow ONT | Aurora SD |
|----------------|--------------|--------------|------------------|----------------|-----------------|---------------|----------------|---------------|--------------|
| IA2094 (II) | 10/1 | 9/13 | | 9/16 | 9/13 | 9/10 | 9/18 | 9/25 | 9/28 |
| IA1022 (SCN) | -3 | -4 | | -5 | -3 | -7 | -3 | -8 | -4 |
| IA3024 | 0 | 11 | | 6 | 7 | 5 | 6 | 7 | 6 |
| IA2101 | -3 | 8 | | 2 | 6 | -1 | 3 | 8 | 9 |
| A07-626002 | 0 | 8 | | 6 | 8 | 3 | 4 | 7 | 6 |
| A08-248020 | 0 | 8 | | 4 | 1 | 3 | 1 | 4 | 6 |
| A08-248043 | -1 | 5 | | 3 | 1 | 1 | 2 | 5 | 6 |
| AR07-276022 | 0 | 5 | | 2 | 7 | 3 | 2 | 6 | 0 |
| AR08-186020 | 0 | 3 | | 0 | -1 | 0 | 1 | 2 | 2 |
| AR08-286003 | 0 | 8 | | 6 | 7 | 2 | 4 | 6 | 5 |
| E07048 | 2 | 9 | | 4 | 0 | 2 | 5 | 6 | 6 |
| E07087 | 0 | -2 | | -3 | -1 | 0 | -1 | 2 | 0 |
| LD05- 1540 | -2 | 3 | | 0 | 2 | 0 | -1 | 4 | 0 |
| MLG03-4069017 | 0 | 3 | | 0 | 1 | 0 | 0 | 2 | 0 |
| U06-100136 | 2 | 10 | | 3 | 6 | 5 | 4 | 9 | 6 |
| U06-103421 | -4 | -2 | | 0 | 0 | -4 | -1 | 7 | -4 |
| Date Planted | 5/6 | 5/17 | 5/14 | 5/18 | 5/29 | 5/21 | 5/27 | 6/15 | 5/19 |
| Days to Mature | 148 | 119 | | 121 | 107 | 112 | 114 | 102 | 132 |

UNIFORM TEST II, 2010

LODGING (score)

| Strain | Mean 18 Tests | Ames IA | Rippey IA | Finch | | | Urbana IL | Lafayette IN | Wanatah IN | Ingham | Lenawee | Lamberton MN |
|---------------|---------------------|------------|--------------|-------------|--------------|--------------|--------------|-----------------|---------------|--------------|---------|-----------------|
| | | | | Farms IA | Dekalb IL | County MI | | | | County MI | | |
| IA2094 (II) | 1.6 | 3.0 | 2.0 | 2.5 | 3.0 | 1.0 | 1.2 | 1.2 | 1.5 | 1.0 | 2.3 | |
| IA1022 (SCN) | 1.8 | 3.0 | 2.0 | 2.5 | 2.0 | 1.0 | 1.5 | 1.2 | 2.0 | 2.0 | 2.3 | |
| IA3024 | 1.6 | 3.0 | 1.5 | 2.5 | 2.8 | 1.3 | 1.0 | 1.0 | 1.5 | 1.5 | 2.0 | |
| IA2101 | 1.5 | 2.8 | 1.5 | 2.5 | 2.8 | 1.5 | 1.0 | 1.0 | 1.5 | 1.0 | 2.0 | |
| A07-626002 | 1.6 | 3.5 | 2.0 | 2.5 | 2.8 | 1.3 | 1.2 | 1.0 | 1.5 | 1.0 | 2.3 | |
| A08-248020 | 1.7 | 3.5 | 1.8 | 3.0 | 2.8 | 1.5 | 1.0 | 1.2 | 1.5 | 2.0 | 2.3 | |
| A08-248043 | 1.8 | 3.0 | 2.5 | 2.0 | 3.3 | 1.5 | 1.5 | 1.0 | 2.5 | 2.5 | 2.0 | |
| AR07-276022 | 1.3 | 1.5 | 1.5 | 1.0 | 2.5 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 2.0 | |
| AR08-186020 | 1.6 | 3.0 | 1.8 | 3.0 | 3.0 | 1.3 | 1.2 | 1.0 | 2.0 | 1.5 | 2.3 | |
| AR08-286003 | 1.4 | 2.5 | 1.0 | 2.0 | 2.5 | 1.3 | 1.0 | 1.0 | 1.0 | 1.0 | 2.0 | |
| E07048 | 2.2 | 3.8 | 2.0 | 4.0 | 3.8 | 1.5 | 1.5 | 1.2 | 2.0 | 3.0 | 2.7 | |
| E07087 | 1.5 | 2.3 | 2.0 | 2.0 | 2.5 | 1.0 | 1.0 | 1.0 | 2.0 | 1.0 | 2.0 | |
| LD05- 1540 | 1.3 | 2.3 | 1.5 | 1.5 | 2.5 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 2.0 | |
| MLG03-4069017 | 1.6 | 3.0 | 1.8 | 2.5 | 2.5 | 1.0 | 1.2 | 1.3 | 2.0 | 1.0 | 2.0 | |
| U06-100136 | 1.4 | 2.0 | 1.5 | 1.5 | 2.8 | 1.5 | 1.0 | 1.0 | 1.0 | 1.0 | 2.0 | |
| U06-103421 | 1.6 | 2.3 | 1.5 | 3.0 | 3.5 | 1.0 | 1.0 | 1.3 | 1.0 | 2.0 | 2.0 | |

UNIFORM TEST II, 2010

PLANT HEIGHT (inches)

| Strain | Mean 17 Tests | Ames IA | Rippey IA | Finch | | | Urbana IL | Lafayette IN | Wanatah IN | Ingham | Lenawee | Lamberton MN |
|---------------|---------------------|------------|--------------|-------------|--------------|--------------|--------------|-----------------|---------------|--------------|---------|-----------------|
| | | | | Farms IA | Dekalb IL | County MI | | | | County MI | | |
| IA2094 (II) | 35 | 39 | 34 | 37 | 40 | 28 | 38 | 32 | 38 | 37 | 39 | |
| IA1022 (SCN) | 33 | 38 | 30 | 33 | 39 | 23 | 34 | 31 | 36 | 39 | 36 | |
| IA3024 | 37 | 42 | 33 | 39 | 38 | 32 | 39 | 33 | 37 | 37 | 40 | |
| IA2101 | 37 | 41 | 33 | 35 | 41 | 31 | 40 | 33 | 37 | 38 | 42 | |
| A07-626002 | 35 | 37 | 32 | 38 | 38 | 31 | 39 | 32 | 37 | 34 | 41 | |
| A08-248020 | 37 | 41 | 35 | 43 | 41 | 29 | 39 | 31 | 39 | 40 | 39 | |
| A08-248043 | 36 | 39 | 37 | 36 | 42 | 30 | 39 | 31 | 40 | 38 | 42 | |
| AR07-276022 | 34 | 37 | 31 | 38 | 38 | 28 | 37 | 34 | 34 | 36 | 37 | |
| AR08-186020 | 36 | 38 | 37 | 37 | 38 | 30 | 39 | 32 | 39 | 36 | 38 | |
| AR08-286003 | 37 | 38 | 33 | 43 | 40 | 31 | 40 | 33 | 37 | 41 | 39 | |
| E07048 | 36 | 37 | 32 | 30 | 41 | 30 | 39 | 32 | 37 | 40 | 40 | |
| E07087 | 37 | 40 | 33 | 38 | 41 | 32 | 40 | 33 | 37 | 39 | 42 | |
| LD05- 1540 | 37 | 40 | 33 | 40 | 41 | 31 | 39 | 34 | 38 | 37 | 40 | |
| MLG03-4069017 | 38 | 40 | 35 | 40 | 41 | 30 | 40 | 36 | 40 | 42 | 44 | |
| U06-100136 | 34 | 38 | 29 | 37 | 35 | 30 | 35 | 29 | 32 | 33 | 38 | |
| U06-103421 | 32 | 31 | 27 | 31 | 36 | 23 | 31 | 31 | 34 | 41 | 35 | |

UNIFORM TEST II, 2010**LODGING (score)**

| Strain | Waseca MN | Beemer NE | Cotesfield NE | Phillips NE | Hoytville OH | Wooster OH | Chatham ONT | Harrow ONT | Aurora SD |
|---------------|--------------|--------------|------------------|----------------|-----------------|---------------|----------------|---------------|--------------|
| IA2094 (II) | 2.3 | 1.5 | | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| IA1022 (SCN) | 2.0 | 2.5 | | 2.0 | 1.0 | 1.0 | 1.7 | 1.0 | 2.0 |
| IA3024 | 2.3 | 1.0 | | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 2.0 |
| IA2101 | 2.0 | 1.0 | | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 2.0 |
| A07-626002 | 2.0 | 1.0 | | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| A08-248020 | 2.0 | 1.5 | | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 2.0 |
| A08-248043 | 2.0 | 1.5 | | 1.0 | 1.0 | 1.0 | 1.3 | 1.0 | 2.0 |
| AR07-276022 | 2.3 | 1.5 | | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| AR08-186020 | 2.0 | 1.0 | | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| AR08-286003 | 2.3 | 1.0 | | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| E07048 | 2.3 | 3.0 | | 2.0 | 1.0 | 1.0 | 1.7 | 1.0 | 2.0 |
| E07087 | 2.3 | 1.0 | | 1.0 | 1.0 | 1.0 | 1.7 | 1.0 | 1.0 |
| LD05- 1540 | 2.0 | 1.0 | | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| MLG03-4069017 | 2.7 | 1.0 | | 1.0 | 1.0 | 1.0 | 1.3 | 1.0 | 1.0 |
| U06-100136 | 2.0 | 1.0 | | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| U06-103421 | 2.0 | 1.5 | | 2.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |

UNIFORM TEST II, 2010**PLANT HEIGHT (inches)**

| Strain | Waseca MN | Beemer NE | Cotesfield NE | Phillips NE | Hoytville OH | Wooster OH | Chatham ONT | Harrow ONT | Aurora SD |
|---------------|--------------|--------------|------------------|----------------|-----------------|---------------|----------------|---------------|--------------|
| IA2094 (II) | 40 | | 30 | | 29 | 21 | 39 | 35 | 45 |
| IA1022 (SCN) | 44 | | 27 | | 26 | 19 | 35 | 34 | 43 |
| IA3024 | 41 | | 37 | | 30 | 24 | 39 | 37 | 46 |
| IA2101 | 45 | | 31 | | 31 | 23 | 41 | 39 | 46 |
| A07-626002 | 43 | | 34 | | 29 | 21 | 40 | 36 | 42 |
| A08-248020 | 45 | | 35 | | 30 | 23 | 40 | 38 | 45 |
| A08-248043 | 39 | | 33 | | 33 | 23 | 36 | 38 | 42 |
| AR07-276022 | 41 | | 28 | | 26 | 20 | 37 | 32 | 37 |
| AR08-186020 | 39 | | 36 | | 32 | 25 | 41 | 37 | 42 |
| AR08-286003 | 43 | | 32 | | 31 | 23 | 42 | 39 | 43 |
| E07048 | 40 | | 35 | | 30 | 23 | 42 | 39 | 44 |
| E07087 | 43 | | 32 | | 30 | 25 | 41 | 40 | 44 |
| LD05- 1540 | 43 | | 35 | | 30 | 24 | 40 | 38 | 45 |
| MLG03-4069017 | 40 | | 36 | | 29 | 23 | 41 | 38 | 48 |
| U06-100136 | 43 | | 34 | | 25 | 19 | 35 | 32 | 47 |
| U06-103421 | 41 | | 23 | | 25 | 18 | 40 | 39 | 36 |

UNIFORM TEST II, 2010

SEED QUALITY (score)

| Strain | Mean 13 Tests | Ames IA | Rippey IA | Finch | | | | | Wanatah IN | Ingham | Lenawee | Lamberton MN |
|---------------|---------------------|------------|--------------|-------------|--------------|--------------|-----------------|--------------|---------------|--------------|---------|-----------------|
| | | | | Farms IA | Dekalb IL | Urbana IL | Lafayette IN | County MI | | County MI | | |
| IA2094 (II) | 1.3 | | | 2.0 | 2.0 | 1.0 | 1.0 | 1.0 | | | 1.0 | |
| IA1022 (SCN) | 1.5 | | | 5.0 | 2.0 | 1.0 | 1.0 | 1.0 | | | 2.0 | |
| IA3024 | 1.6 | | | 2.0 | 2.0 | 1.0 | 1.5 | 1.0 | | | 2.0 | |
| IA2101 | 1.7 | | | 3.0 | 3.0 | 1.0 | 1.5 | 1.5 | | | 2.0 | |
| A07-626002 | 1.3 | | | 2.0 | 1.0 | 1.0 | 1.0 | 1.0 | | | 1.0 | |
| A08-248020 | 1.4 | | | 2.0 | 1.0 | 1.0 | 1.0 | 1.0 | | | 2.0 | |
| A08-248043 | 1.5 | | | 2.0 | 2.0 | 1.0 | 1.0 | 1.5 | | | 1.0 | |
| AR07-276022 | 1.4 | | | 2.0 | 2.0 | 1.0 | 1.0 | 1.0 | | | 1.0 | |
| AR08-186020 | 1.4 | | | 2.0 | 2.0 | 1.0 | 1.0 | 1.0 | | | 2.0 | |
| AR08-286003 | 1.6 | | | 2.0 | 3.0 | 2.0 | 1.0 | 1.0 | | | 1.0 | |
| E07048 | 1.9 | | | 3.0 | 2.0 | 2.0 | 1.5 | 1.0 | | | 2.0 | |
| E07087 | 1.8 | | | 3.0 | 3.0 | 1.0 | 1.5 | 1.5 | | | 1.0 | |
| LD05- 1540 | 1.3 | | | 2.0 | 2.0 | 1.0 | 1.0 | 1.0 | | | 1.0 | |
| MLG03-4069017 | 1.4 | | | 2.0 | 2.0 | 1.0 | 1.0 | 1.5 | | | 1.0 | |
| U06-100136 | 1.3 | | | 2.0 | 1.0 | 1.0 | 1.0 | 1.0 | | | 1.0 | |
| U06-103421 | 1.3 | | | 2.0 | 2.0 | 1.0 | 1.0 | 1.5 | | | 1.0 | |

UNIFORM TEST II, 2010

SEED SIZE (g/100)

| Strain | Mean 19 Tests | Ames IA | Rippey IA | Finch | | | | | Wanatah IN | Ingham | Lenawee | Lamberton MN |
|---------------|---------------------|------------|--------------|-------------|--------------|--------------|-----------------|--------------|---------------|--------------|---------|-----------------|
| | | | | Farms IA | Dekalb IL | Urbana IL | Lafayette IN | County MI | | County MI | | |
| IA2094 (II) | 14.7 | 16.0 | 14.3 | 16.8 | 13.8 | 17.2 | 14.3 | 11.1 | 15.3 | 14.1 | 14.8 | |
| IA1022 (SCN) | 14.2 | 15.4 | 14.2 | 15.8 | 13.8 | 16.4 | 15.0 | 11.3 | 14.4 | 13.7 | 13.7 | |
| IA3024 | 14.7 | 15.8 | 13.7 | 16.2 | 12.8 | 16.3 | 13.5 | 11.3 | 15.9 | 14.9 | 15.6 | |
| IA2101 | 16.2 | 16.8 | 14.6 | 17.7 | 15.2 | 18.9 | 15.4 | 13.5 | 16.4 | 15.6 | 17.1 | |
| A07-626002 | 13.6 | 14.6 | 13.4 | 15.0 | 11.6 | 15.9 | 12.9 | 11.4 | 14.6 | 13.5 | 14.7 | |
| A08-248020 | 14.7 | 15.9 | 15.0 | 15.8 | 13.0 | 17.2 | 14.5 | 11.4 | 14.8 | 13.9 | 16.0 | |
| A08-248043 | 14.7 | 16.1 | 15.0 | 16.3 | 13.1 | 17.9 | 15.1 | 10.6 | 16.3 | 14.8 | 15.8 | |
| AR07-276022 | 13.5 | 14.8 | 12.3 | 15.1 | 12.4 | 15.8 | 13.0 | 10.0 | 15.0 | 13.8 | 14.3 | |
| AR08-186020 | 15.3 | 15.5 | 15.2 | 16.3 | 13.4 | 18.0 | 15.2 | 11.8 | 15.9 | 15.0 | 17.0 | |
| AR08-286003 | 15.2 | 15.7 | 14.6 | 17.1 | 13.9 | 16.8 | 15.6 | 12.6 | 16.6 | 16.2 | 15.0 | |
| E07048 | 14.7 | 16.0 | 13.7 | 15.9 | 13.7 | 17.6 | 14.9 | 11.1 | 15.9 | 16.1 | 15.8 | |
| E07087 | 13.4 | 13.5 | 13.1 | 13.5 | 11.6 | 16.0 | 12.6 | 10.7 | 13.9 | 13.8 | 13.7 | |
| LD05- 1540 | 15.3 | 16.7 | 15.2 | 17.0 | 14.7 | 18.9 | 15.7 | 11.8 | 15.4 | 13.7 | 15.6 | |
| MLG03-4069017 | 15.9 | 16.8 | 15.6 | 17.2 | 16.3 | 18.2 | 15.9 | 12.9 | 16.0 | 15.0 | 16.2 | |
| U06-100136 | 12.7 | 13.7 | 12.7 | 13.5 | 10.7 | 15.1 | 10.9 | 10.2 | 14.0 | 12.3 | 14.0 | |
| U06-103421 | 13.7 | 15.7 | 13.9 | 13.8 | 11.8 | 15.9 | 14.2 | 9.8 | 14.0 | 13.8 | 14.0 | |

UNIFORM TEST II, 2010**SEED QUALITY (score)**

| Strain | Waseca MN | Beemer NE | Cotesfield NE | Phillips NE | Hoytville OH | Wooster OH | Chatham ONT | Harrow ONT | Aurora SD |
|---------------|--------------|--------------|------------------|----------------|-----------------|---------------|----------------|---------------|--------------|
| IA2094 (II) | 1.0 | | | 1.0 | 1.0 | 1.0 | 1.3 | 1.0 | 3.0 |
| IA1022 (SCN) | 1.0 | | | 1.0 | 1.0 | 1.0 | 1.7 | 1.0 | 1.0 |
| IA3024 | 1.0 | | | 2.0 | 2.0 | 1.0 | 2.0 | 1.0 | 2.0 |
| IA2101 | 1.0 | | | 2.0 | 2.0 | 1.5 | 1.7 | 1.0 | 1.0 |
| A07-626002 | 1.0 | | | 1.0 | 2.0 | 1.0 | 2.0 | 1.0 | 2.0 |
| A08-248020 | 1.0 | | | 2.0 | 1.0 | 1.5 | 1.7 | 1.0 | 2.0 |
| A08-248043 | 1.0 | | | 2.0 | 2.0 | 1.5 | 2.0 | 1.0 | 2.0 |
| AR07-276022 | 1.0 | | | 2.0 | 2.0 | 1.0 | 1.3 | 1.0 | 2.0 |
| AR08-186020 | 1.0 | | | 2.0 | 1.5 | 1.0 | 1.3 | 1.0 | 1.0 |
| AR08-286003 | 1.0 | | | 2.0 | 2.0 | 1.0 | 2.0 | 1.0 | 2.0 |
| E07048 | 1.0 | | | 3.0 | 2.5 | 2.0 | 1.7 | 1.3 | 2.0 |
| E07087 | 1.0 | | | 2.0 | 2.0 | 2.0 | 2.0 | 1.0 | 3.0 |
| LD05- 1540 | 1.0 | | | 1.0 | 1.0 | 1.5 | 2.0 | 1.0 | 2.0 |
| MLG03-4069017 | 1.0 | | | 1.0 | 1.0 | 2.0 | 1.3 | 1.0 | 3.0 |
| U06-100136 | 1.0 | | | 1.0 | 2.0 | 2.0 | 1.3 | 1.0 | 2.0 |
| U06-103421 | 1.0 | | | 2.0 | 1.0 | 1.0 | 2.0 | 1.0 | 1.0 |

UNIFORM TEST II, 2010**SEED SIZE (g/100)**

| Strain | Waseca MN | Beemer NE | Cotesfield NE | Phillips NE | Hoytville OH | Wooster OH | Chatham ONT | Harrow ONT | Aurora SD |
|---------------|--------------|--------------|------------------|----------------|-----------------|---------------|----------------|---------------|--------------|
| IA2094 (II) | 14.0 | 14.2 | 16.6 | 16.5 | 13.8 | 13.5 | 14.3 | 13.7 | 15.0 |
| IA1022 (SCN) | 13.2 | 13.1 | 15.4 | 16.0 | 13.7 | 12.4 | 13.9 | 13.3 | 14.6 |
| IA3024 | 13.4 | 14.5 | 17.8 | 16.3 | 13.2 | 13.3 | 15.3 | 14.3 | 15.7 |
| IA2101 | 15.5 | 15.7 | 18.3 | 18.0 | 15.9 | 14.4 | 17.3 | 15.5 | 16.9 |
| A07-626002 | 12.3 | 13.1 | 14.7 | 15.3 | 12.1 | 12.1 | 13.8 | 13.7 | 14.5 |
| A08-248020 | 14.8 | 15.2 | 15.7 | 16.1 | 12.5 | 14.0 | 14.6 | 13.5 | 15.2 |
| A08-248043 | 13.6 | 14.8 | 13.8 | 15.0 | 13.5 | 13.7 | 14.3 | 13.4 | 15.7 |
| AR07-276022 | 12.9 | 12.9 | 14.0 | 13.4 | 13.1 | 12.5 | 13.9 | 13.6 | 14.2 |
| AR08-186020 | 13.9 | 15.1 | 16.6 | 16.3 | 14.3 | 14.2 | 15.7 | 13.8 | 16.8 |
| AR08-286003 | 14.0 | 13.9 | 15.7 | 17.0 | 13.7 | 14.2 | 15.4 | 15.1 | 15.4 |
| E07048 | 13.6 | 13.8 | 17.6 | 14.5 | 12.2 | 13.2 | 14.5 | 14.4 | 15.8 |
| E07087 | 12.3 | 11.7 | 15.6 | 13.6 | 11.7 | 14.0 | 13.3 | 13.3 | 16.9 |
| LD05- 1540 | 14.6 | 15.1 | 17.1 | 16.8 | 14.2 | 13.9 | 14.0 | 13.7 | 16.1 |
| MLG03-4069017 | 14.3 | 14.8 | 16.4 | 18.6 | 15.0 | 16.4 | 15.8 | 15.5 | 15.0 |
| U06-100136 | 12.8 | 11.9 | 14.9 | 13.4 | 10.7 | 12.2 | 12.6 | 13.5 | 13.1 |
| U06-103421 | 12.9 | 13.6 | 15.1 | 15.9 | 13.1 | 12.6 | 14.6 | 12.3 | 12.8 |

UNIFORM TEST II, 2010

PROTEIN (%)

| Strain | Mean 15 Tests | Ripley IA | Finch Farms IA | Dekalb IL | Urbana IL | Lafayette IN | Wanatah IN | Ingham County MI |
|---------------|---------------------|--------------|----------------------|--------------|--------------|-----------------|---------------|------------------------|
| IA2094 (II) | 34.8 | 34.0 | 36.0 | 35.4 | 33.9 | 34.7 | 34.5 | 35.2 |
| IA1022 (SCN) | 33.4 | 34.2 | 34.8 | 35.5 | 32.7 | 34.0 | 33.4 | 33.1 |
| IA3024 | 32.5 | 30.7 | 33.8 | 34.2 | 31.4 | 32.5 | 32.5 | 32.7 |
| IA2101 | 33.8 | 34.5 | 34.6 | 34.5 | 32.3 | 33.9 | 32.4 | 33.2 |
| A07-626002 | 33.9 | 33.1 | 35.4 | 35.5 | 33.4 | 34.6 | 33.4 | 33.9 |
| A08-248020 | 35.1 | 35.3 | 35.7 | 36.1 | 33.8 | 35.6 | 34.2 | 34.7 |
| A08-248043 | 34.8 | 35.2 | 36.1 | 35.0 | 33.3 | 35.0 | 34.4 | 34.5 |
| AR07-276022 | 34.5 | 32.9 | 35.2 | 36.0 | 34.1 | 34.5 | 33.8 | 35.3 |
| AR08-186020 | 35.2 | 34.3 | 36.1 | 36.2 | 33.9 | 35.4 | 35.0 | 35.5 |
| AR08-286003 | 35.3 | 35.2 | 36.0 | 35.9 | 34.6 | 35.8 | 35.3 | 35.8 |
| E07048 | 33.6 | 31.8 | 34.6 | 35.5 | 32.9 | 34.4 | 32.6 | 33.8 |
| E07087 | 33.7 | 32.6 | 34.0 | 35.4 | 33.1 | 34.4 | 33.4 | 33.5 |
| LD05- 1540 | 34.5 | 33.4 | 34.7 | 35.1 | 33.5 | 34.5 | 34.0 | 34.5 |
| MLG03-4069017 | 34.6 | 33.6 | 35.6 | 35.3 | 33.8 | 36.0 | 33.6 | 34.3 |
| U06-100136 | 33.5 | 32.5 | 33.9 | 34.4 | 32.4 | 33.3 | 32.9 | 33.0 |
| U06-103421 | 33.6 | 34.3 | 34.0 | 34.6 | 32.2 | 33.8 | 33.9 | 32.6 |

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

UNIFORM TEST II, 2010

OIL (%)

| Strain | Mean 15 Tests | Ripley IA | Finch Farms IA | Dekalb IL | Urbana IL | Lafayette IN | Wanatah IN | Ingham County MI |
|---------------|---------------------|--------------|----------------------|--------------|--------------|-----------------|---------------|------------------------|
| IA2094 (II) | 17.9 | 18.2 | 18.1 | 17.7 | 18.1 | 18.2 | 16.8 | 17.0 |
| IA1022 (SCN) | 19.5 | 18.9 | 19.7 | 19.4 | 19.4 | 19.6 | 18.4 | 18.9 |
| IA3024 | 18.6 | 18.8 | 18.5 | 17.6 | 19.1 | 18.1 | 18.3 | 18.8 |
| IA2101 | 17.8 | 18.5 | 17.7 | 17.0 | 17.8 | 17.6 | 17.6 | 18.2 |
| A07-626002 | 18.0 | 17.6 | 17.7 | 17.1 | 18.4 | 17.4 | 17.6 | 17.7 |
| A08-248020 | 17.7 | 17.9 | 17.2 | 17.2 | 18.0 | 17.3 | 16.9 | 17.5 |
| A08-248043 | 17.8 | 18.5 | 17.9 | 17.2 | 18.6 | 18.0 | 16.2 | 17.8 |
| AR07-276022 | 17.4 | 16.6 | 17.7 | 17.6 | 18.5 | 16.6 | 16.2 | 17.7 |
| AR08-186020 | 17.4 | 17.2 | 17.5 | 16.4 | 18.1 | 17.2 | 16.3 | 18.0 |
| AR08-286003 | 18.0 | 17.8 | 18.4 | 17.5 | 18.1 | 18.2 | 17.0 | 17.8 |
| E07048 | 18.1 | 18.1 | 18.1 | 17.5 | 18.8 | 17.8 | 17.1 | 18.2 |
| E07087 | 17.9 | 17.7 | 18.3 | 18.0 | 17.6 | 18.2 | 16.5 | 17.8 |
| LD05- 1540 | 18.6 | 18.8 | 19.4 | 18.0 | 19.2 | 18.7 | 17.4 | 18.0 |
| MLG03-4069017 | 18.0 | 18.1 | 18.0 | 17.1 | 18.2 | 18.0 | 17.5 | 17.8 |
| U06-100136 | 17.5 | 18.1 | 17.6 | 16.8 | 18.0 | 16.8 | 16.5 | 17.6 |
| U06-103421 | 18.8 | 19.6 | 19.1 | 18.6 | 19.6 | 18.5 | 16.6 | 19.1 |

UNIFORM TEST II, 2010

PROTEIN (%)

| Strain | Lamberton MN | Waseca MN | Phillips NE | Hoytville OH | Aurora SD | Wooster OH | Chatham ONT | Harrow ONT |
|---------------|-----------------|--------------|----------------|-----------------|--------------|---------------|----------------|---------------|
| IA2094 (II) | 35.2 | 33.3 | 34.7 | 33.4 | 34.7 | 34.6 | 35.8 | 36.0 |
| IA1022 (SCN) | 32.5 | 31.9 | 33.8 | 32.3 | 33.2 | 33.4 | 33.2 | 33.4 |
| IA3024 | 32.4 | 30.8 | 32.2 | 32.2 | 32.9 | 31.9 | 33.4 | 34.4 |
| IA2101 | 33.3 | 33.2 | 34.4 | 33.4 | 34.3 | 32.6 | 35.0 | 35.6 |
| A07-626002 | 33.1 | 31.6 | 34.5 | 32.4 | 34.5 | 34.6 | 34.4 | 34.6 |
| A08-248020 | 35.7 | 34.2 | 35.4 | 33.7 | 35.5 | 35.1 | 35.5 | 35.8 |
| A08-248043 | 35.8 | 33.6 | 34.5 | 33.1 | 35.3 | 34.7 | 35.3 | 36.3 |
| AR07-276022 | 34.0 | 32.7 | 34.6 | 33.0 | 35.1 | 35.1 | 35.8 | 35.6 |
| AR08-186020 | 35.2 | 34.0 | 34.5 | 33.6 | 35.4 | 34.5 | 36.5 | 37.1 |
| AR08-286003 | 35.3 | 33.4 | 35.4 | 32.9 | 35.8 | 35.4 | 35.9 | 36.3 |
| E07048 | 32.8 | 31.8 | 34.1 | 31.3 | 34.4 | 33.9 | 34.2 | 35.9 |
| E07087 | 34.7 | 31.6 | 32.8 | 32.2 | 34.1 | 34.1 | 33.1 | 36.3 |
| LD05- 1540 | 34.5 | 33.6 | 34.1 | 33.5 | 35.1 | 34.3 | 35.4 | 36.6 |
| MLG03-4069017 | 34.1 | 33.8 | 34.4 | 33.3 | 34.2 | 35.5 | 35.1 | 36.1 |
| U06-100136 | 33.8 | 31.6 | 33.5 | 32.3 | 34.0 | 33.4 | 35.1 | 35.8 |
| U06-103421 | 34.5 | 32.8 | 33.2 | 31.6 | 33.6 | 33.5 | 34.4 | 35.4 |

UNIFORM TEST II, 2010

OIL (%)

| Strain | Lamberton MN | Waseca MN | Phillips NE | Hoytville OH | Aurora SD | Wooster OH | Chatham ONT | Harrow ONT |
|---------------|-----------------|--------------|----------------|-----------------|--------------|---------------|----------------|---------------|
| IA2094 (II) | 17.7 | 17.7 | 18.3 | 17.9 | 17.5 | 18.4 | 18.5 | 18.1 |
| IA1022 (SCN) | 18.9 | 19.2 | 19.7 | 19.7 | 19.4 | 20.3 | 20.8 | 20.0 |
| IA3024 | 18.3 | 18.6 | 19.1 | 18.9 | 17.9 | 19.2 | 19.3 | 18.5 |
| IA2101 | 17.6 | 17.8 | 18.4 | 18.3 | 17.1 | 18.4 | 18.1 | 17.2 |
| A07-626002 | 18.0 | 18.0 | 18.3 | 18.1 | 17.7 | 18.1 | 19.3 | 18.9 |
| A08-248020 | 18.2 | 18.1 | 17.7 | 17.5 | 17.9 | 18.4 | 18.2 | 17.6 |
| A08-248043 | 18.3 | 16.9 | 17.7 | 18.1 | 17.6 | 18.3 | 18.2 | 17.2 |
| AR07-276022 | 17.3 | 17.1 | 17.4 | 17.8 | 17.1 | 18.1 | 17.7 | 17.1 |
| AR08-186020 | 18.1 | 17.2 | 17.5 | 18.0 | 17.1 | 18.4 | 17.6 | 16.4 |
| AR08-286003 | 18.2 | 17.4 | 18.1 | 18.5 | 17.7 | 18.4 | 18.8 | 18.2 |
| E07048 | 18.1 | 18.1 | 18.4 | 18.5 | 17.8 | 19.0 | 18.8 | 17.3 |
| E07087 | 18.2 | 17.8 | 18.7 | 17.6 | 17.9 | 18.6 | 19.2 | 16.9 |
| LD05- 1540 | 19.3 | 18.8 | 19.2 | 18.6 | 18.0 | 19.7 | 19.2 | 17.5 |
| MLG03-4069017 | 18.0 | 17.9 | 18.5 | 18.3 | 17.4 | 18.3 | 19.1 | 18.3 |
| U06-100136 | 17.4 | 17.5 | 18.1 | 17.7 | 17.0 | 18.1 | 18.2 | 17.7 |
| U06-103421 | 18.6 | 18.1 | 19.5 | 19.3 | 18.7 | 19.6 | 19.9 | 17.7 |

Preliminary Test IIA, 2010

| Ent. | Strain | Parentage | Seed Source | Gen. Comp. | Unique Traits |
|------|--------------|--|-------------|------------|---------------|
| 1. | IA2094 (II) | AgriPro X0121B74 x A00-711036 | Fehr | F4 | |
| 2. | IA1022 (SCN) | Dairyland 98822 x A00-711024 | Fehr | F5 | SCN |
| 3. | IA3024 | A97-553017 x Pioneer YB33A99 | Fehr | | 1% linolenic |
| 4. | AR07-176114 | Golden Harvest 24040 x Garst-Agripro 96289-A99-31240 | Cianzo | F5 | |
| 5. | AR08-286004 | Golden Harvest H-2285 x AR02-101001 | Cianzo | F4 | BSR |
| 6. | AR08-286037 | Soygenetics F21461C x LS97-3221 | Cianzo | F5 | SDS |
| 7. | AR09-192013 | AR04-874018 x LD02-5320 | Cianzo | F4 | BSR |
| 8. | AR09-192015 | Syngenta 03KL016094 x AR04-874013 | Cianzo | F4 | BSR |
| 9. | AR09-192019 | LD01-7323 x AR02-101001 | Cianzo | F4 | BSR |
| 10. | AR09-292001 | Syngenta SJ833009 x LS99-2235 | Cianzo | F5 | SDS |
| 11. | AR09-292028 | HS3-2523 x AR05-250118 | Cianzo | F4 | |
| 12. | AR09-292048 | Soygenetics F35481C x AR05-250117 | Cianzo | F4 | |
| 13. | AR09-292054 | AR04-874018 x LD02-5320 | Cianzo | F4 | BSR |
| 14. | AR09-292056 | AR04-874018 x M99-286047 | Cianzo | F4 | BSR |
| 15. | AR09-292092 | LD02-5320 x AR04-874013 | Cianzo | F4 | BSR |
| 16. | E08052 | E01260 x LD00-4970 | Wang | F5 | |
| 17. | E08058 | E01260 x LD00-4970 | Wang | F5 | |
| 18. | E08130 | Skylla x PI 548404 | Wang | F5 | |
| 19. | E08135 | Skylla x PI 548404 | Wang | F5 | |
| 20. | E08142 | Skylla x PI 548404 | Wang | F5 | |
| 21. | E08200 | A02-381046 x IA2065 | Wang | F5 | |
| 22. | E08206 | A02-381046 x IA2065 | Wang | F5 | |
| 23. | E08210 | A02-381046 x IA2065 | Wang | F5 | |
| 24. | E08235 | A02-381100 x SDX00R-039-42 | Wang | F5 | |
| 25. | E08239 | A02-381100 x Skylla | Wang | F5 | |
| 26. | E08242 | A02-381100 x Skylla | Wang | F5 | |
| 27. | HS7W-29 | H2885 x HF99-019 | McHale | F4 | |
| 28. | HS7W-82 | HS1-3641 x HS1-7116 | McHale | F4 | |
| 29. | HS7W-194 | HS1-3641 x HS1-3907 | McHale | F4 | |
| 30. | HS8W-8 | HS0-3243 x LG00-3372 | McHale | F4 | |
| 31. | HS8W-83 | HS1-3661 x HF01-0821 | McHale | F4 | |

PRELIMINARY TEST IIA, 2010

DESCRIPTIVE AND DISEASE DATA

| Strain | Descriptive Code | Green Stem | Shattering | PR | | FE |
|--------------|------------------|------------------|--------------------|------------------|--------|------------|
| | | Score Harrow ONT | Score Manhattan KS | Lafayette Race 4 | Race 7 | Laf. a rx. |
| IA2094 (II) | PTTSYYI | 1.0 | 2.0 | S | S | S |
| IA1022 (SCN) | PGTIYYI | 1.0 | 3.0 | S | S | S |
| IA3024 | PGTIYbI | 1.0 | 3.0 | R* | R* | S |
| AR07-176114 | PGTDYDbfI | 1.0 | 2.0 | R* | R* | S |
| AR08-286004 | PGTDYBfI | 1.0 | 2.0 | S | S | S |
| AR08-286037 | PTTIYBII | 1.0 | 1.0 | S | R* | S |
| AR09-192013 | P+WTTDYBII | 1.0 | 2.0 | S | S | S |
| AR09-192015 | PTTDYBII | 1.0 | 3.0 | S | S | S |
| AR09-192019 | P+WGTDYBfI | 1.0 | 2.0 | S | S | S |
| AR09-292001 | WTBDYBrI | 1.0 | 2.0 | R* | R* | S |
| AR09-292028 | WGTDYBfI | 1.0 | 5.0 | R* | R* | S |
| AR09-292048 | WGBDYLbf+YI | 1.0 | 5.0 | H* | H* | S |
| AR09-292054 | WTTDYBII | 1.0 | 1.0 | S | S | S |
| AR09-292056 | PTTDYBII | 1.0 | 1.0 | S | R* | S |
| AR09-292092 | PTBDYBI+BrI | 1.0 | 2.0 | S | S | S |
| E08052 | PTBDYBrI | 1.0 | 2.0 | S | S | S |
| E08058 | PGTDYBfI | 1.0 | 2.0 | S | S | S |
| E08130 | PTTDYBII | 1.0 | 2.0 | S | R* | - |
| E08135 | PTTDYBII | 1.0 | 2.0 | S | R* | - |
| E08142 | PTTDYBII | 1.0 | 1.0 | S | R* | - |
| E08200 | PTBDYBII | 1.0 | 2.0 | S | R* | S |
| E08206 | PTTDYBII | 1.0 | 2.0 | H* | R* | S |
| E08210 | PTBDYBII | 1.0 | 2.0 | R* | R* | S |
| E08235 | PGBDYIbI | 1.0 | 3.0 | R* | R* | S |
| E08239 | PTTDYBII | 1.0 | 2.0 | S | R* | - |
| E08242 | PTTDYBII | 1.0 | 2.0 | S | R* | - |
| HS7W-29 | PGBDYIbI | 1.0 | 4.0 | R* | R* | S |
| HS7W-82 | WLtBDYBII | 1.0 | 2.0 | S | R* | S |
| HS7W-194 | PLtTDYBII | 1.0 | 2.0 | R* | R* | S |
| HS8W-8 | PLtTDYBII | 1.0 | 2.0 | R* | R* | S |
| HS8W-83 | PLtBDYBI+BrI | 1.0 | 1.0 | S | S | S |

PR: * = *P. sojae* inoc. Reaction NOT compatible with breeder's information about *Rps* Trait

FE: S = susceptible, - = lesions not detected, x = no data

PRELIMINARY TEST IIA, 2010

REGIONAL SUMMARY

| No. of Tests Strain | Yield 11 bu/a | Rank 11 No. | Maturity 9 Date | Lodging 10 Score | Plant Height 9 In. | Seed Quality 8 Score | Seed Size 11 g/100 | Composition | |
|------------------------|---------------------|-------------------|-----------------------|------------------------|-----------------------------|-------------------------------|-----------------------------|-------------------|---------------|
| | | | | | | | | Protein 9 % | Oil 9 % |
| IA2094 (II) | 66.6 | 11 | 9/16 | 1.4 | 36 | 1.6 | 14.7 | 35.1 | 17.8 |
| IA1022 (SCN) | 65.2 | 15 | -5.4 | 1.5 | 34 | 1.3 | 14.5 | 33.6 | 19.5 |
| IA3024 | 70.6 | 1 | 6.6 | 1.2 | 37 | 1.5 | 15.1 | 33.2 | 18.5 |
| AR07-176114 | 66.5 | 13 | -2.1 | 1.1 | 35 | 1.6 | 16.2 | 34.1 | 18.7 |
| AR08-286004 | 69.2 | 3 | -0.7 | 1.3 | 34 | 1.4 | 14.0 | 34.7 | 17.7 |
| AR08-286037 | 60.6 | 31 | 1.9 | 1.6 | 39 | 1.3 | 14.7 | 35.2 | 17.5 |
| AR09-192013 | 64.6 | 19 | -1.4 | 1.3 | 38 | 1.6 | 15.9 | 35.8 | 17.4 |
| AR09-192015 | 62.1 | 26 | -1.2 | 1.7 | 39 | 1.4 | 13.6 | 35.5 | 17.0 |
| AR09-192019 | 69.6 | 2 | -2.2 | 1.3 | 35 | 1.6 | 14.9 | 35.6 | 17.8 |
| AR09-292001 | 68.3 | 6 | 4.4 | 1.2 | 35 | 1.6 | 13.3 | 34.1 | 18.4 |
| AR09-292028 | 65.1 | 17 | 1.1 | 1.2 | 38 | 1.6 | 15.7 | 34.0 | 18.4 |
| AR09-292048 | 61.7 | 28 | 2.4 | 1.3 | 34 | 1.9 | 14.1 | 33.9 | 18.1 |
| AR09-292054 | 66.7 | 9 | 1.1 | 1.6 | 37 | 1.5 | 15.0 | 35.3 | 17.5 |
| AR09-292056 | 62.7 | 24 | 1.9 | 1.5 | 38 | 1.6 | 13.2 | 34.7 | 17.2 |
| AR09-292092 | 65.9 | 14 | 6.4 | 1.9 | 39 | 1.4 | 13.0 | 34.6 | 17.2 |
| E08052 | 63.6 | 23 | 11.3 | 2.1 | 45 | 1.5 | 14.9 | 34.2 | 18.0 |
| E08058 | 69.2 | 3 | 6.6 | 1.7 | 39 | 1.3 | 14.2 | 33.9 | 18.2 |
| E08130 | 64.5 | 20 | 5.2 | 1.5 | 38 | 1.4 | 14.9 | 33.4 | 17.9 |
| E08135 | 62.5 | 25 | 3.2 | 1.3 | 39 | 1.3 | 15.3 | 33.4 | 17.7 |
| E08142 | 62.1 | 26 | 3.9 | 1.4 | 39 | 1.5 | 15.0 | 33.4 | 18.0 |
| E08200 | 67.5 | 8 | 5.1 | 1.5 | 39 | 1.9 | 15.6 | 34.6 | 17.5 |
| E08206 | 64.3 | 21 | 7.2 | 1.2 | 37 | 1.9 | 16.7 | 34.7 | 17.7 |
| E08210 | 66.7 | 9 | 0.3 | 1.2 | 35 | 2.1 | 15.7 | 34.3 | 17.7 |
| E08235 | 63.8 | 22 | 1.4 | 1.1 | 37 | 2.0 | 16.5 | 34.8 | 18.7 |
| E08239 | 65.2 | 15 | 6.7 | 1.2 | 36 | 1.4 | 16.2 | 35.9 | 17.4 |
| E08242 | 60.7 | 30 | 2.9 | 1.1 | 36 | 1.9 | 15.2 | 34.4 | 17.8 |
| HS7W-29 | 66.6 | 11 | 7.3 | 1.8 | 41 | 1.6 | 13.9 | 34.3 | 17.8 |
| HS7W-82 | 64.8 | 18 | 8.2 | 1.5 | 36 | 1.8 | 15.1 | 34.5 | 17.3 |
| HS7W-194 | 61.3 | 29 | 9.1 | 1.5 | 38 | 1.1 | 13.7 | 36.1 | 16.7 |
| HS8W-8 | 68.1 | 7 | 9.7 | 1.8 | 42 | 1.5 | 14.3 | 34.3 | 18.0 |
| HS8W-83 | 68.9 | 5 | 5.6 | 1.4 | 39 | 1.6 | 14.4 | 33.8 | 17.9 |

117.5 Days After Planting

PRELIMINARY TEST IIA, 2010

YIELD (bu/a)

| Strain | Mean 11 Tests | Ames IA | Urbana IL | Lafayette IN | Ingham County MI | Beermer NE |
|---------------|---------------------|------------|--------------|-----------------|------------------------|---------------|
| IA2094 (II) | 66.6 | 62.0 | 49.1 | 66.6 | 44.9 | 69.1 |
| IA1022 (SCN) | 65.2 | 53.7 | 35.9 | 71.1 | 46.8 | 72.7 |
| IA3024 | 70.6 | 56.8 | 60.6 | 62.9 | 41.2 | 77.5 |
| AR07-176114 | 66.5 | 57.5 | 36.4 | 70.3 | 51.0 | 71.8 |
| AR08-286004 | 69.2 | 66.4 | 52.3 | 66.0 | 49.7 | 74.2 |
| AR08-286037 | 60.6 | 54.7 | 51.7 | 65.5 | 35.7 | 65.0 |
| AR09-192013 | 64.6 | 53.0 | 46.6 | 61.8 | 34.2 | 65.9 |
| AR09-192015 | 62.1 | 57.7 | 45.0 | 59.2 | 39.7 | 64.6 |
| AR09-192019 | 69.6 | 62.1 | 51.7 | 67.1 | 46.0 | 72.2 |
| AR09-292001 | 68.3 | 63.4 | 57.5 | 61.9 | 45.7 | 71.7 |
| AR09-292028 | 65.1 | 54.1 | 55.3 | 66.7 | 45.4 | 66.8 |
| AR09-292048 | 61.7 | 49.1 | 50.1 | 54.2 | 41.5 | 57.0 |
| AR09-292054 | 66.7 | 59.6 | 51.8 | 72.0 | 44.4 | 72.6 |
| AR09-292056 | 62.7 | 56.3 | 55.2 | 56.0 | 41.3 | 58.1 |
| AR09-292092 | 65.9 | 57.9 | 55.8 | 69.9 | 45.1 | 62.5 |
| E08052 | 63.6 | 52.8 | 63.4 | 59.6 | 42.2 | 58.4 |
| E08058 | 69.2 | 59.1 | 65.2 | 62.7 | 42.3 | 66.2 |
| E08130 | 64.5 | 50.8 | 50.7 | 61.4 | 44.9 | 62.5 |
| E08135 | 62.5 | 48.3 | 47.4 | 54.8 | 42.3 | 60.1 |
| E08142 | 62.1 | 52.8 | 46.3 | 53.5 | 35.9 | 62.0 |
| E08200 | 67.5 | 58.4 | 59.9 | 67.2 | 35.5 | 68.4 |
| E08206 | 64.3 | 53.9 | 53.1 | 60.6 | 34.7 | 64.5 |
| E08210 | 66.7 | 58.5 | 48.1 | 69.8 | 41.8 | 73.9 |
| E08235 | 63.8 | 56.8 | 52.6 | 57.4 | 35.5 | 62.7 |
| E08239 | 65.2 | 57.6 | 53.1 | 66.9 | 37.9 | 71.4 |
| E08242 | 60.7 | 50.0 | 42.3 | 55.9 | 41.6 | 62.3 |
| HS7W-29 | 66.6 | 60.3 | 61.6 | 66.8 | 42.9 | 67.9 |
| HS7W-82 | 64.8 | 58.2 | 58.7 | 63.3 | 49.1 | 60.8 |
| HS7W-194 | 61.3 | 59.2 | 56.5 | 56.2 | 40.1 | 58.2 |
| HS8W-8 | 68.1 | 61.1 | 62.9 | 64.3 | 43.6 | 67.9 |
| HS8W-83 | 68.9 | 60.5 | 58.1 | 67.9 | 42.0 | 77.0 |
| Location Mean | | 56.9 | 52.7 | 63.2 | 42.1 | 66.6 |
| C.V. (%) | | 4.3 | 5.3 | 7.7 | 11.1 | 7.2 |
| L.S.D. (5%) | | 7.6 | 5.7 | 9.9 | 7.9 | 11.8 |
| Row Sp. (In.) | | 30 | 30 | 30 | 15 | 30 |
| Rows/Plot | | 4 | 4 | 4 | 6 | 4 |
| Reps | | 2 | 2 | 2 | 2 | 2 |

*Data not included in mean.

PRELIMINARY TEST IIA, 2010

YIELD (bu/a)

| Strain | Cotesfield NE | Phillips NE | Hoytville OH | Chatham ONT | Harrow ONT | Aurora SD |
|---------------|------------------|----------------|-----------------|----------------|---------------|--------------|
| IA2094 (II) | 79.4 | 97.0 | 59.0 | 79.5 | 66.4 | 59.8 |
| IA1022 (SCN) | 76.8 | 89.4 | 61.4 | 85.7 | 67.0 | 56.7 |
| IA3024 | 100.1 | 102.8 | 61.1 | 91.5 | 64.7 | 57.9 |
| AR07-176114 | 82.7 | 93.6 | 63.0 | 82.2 | 66.3 | 56.8 |
| AR08-286004 | 86.9 | 103.1 | 59.4 | 79.4 | 64.7 | 58.6 |
| AR08-286037 | 78.0 | 82.0 | 56.4 | 72.9 | 60.9 | 44.1 |
| AR09-192013 | 89.9 | 90.4 | 57.3 | 91.8 | 62.5 | 57.4 |
| AR09-192015 | 75.6 | 88.2 | 51.3 | 83.9 | 65.1 | 53.3 |
| AR09-192019 | 89.1 | 93.5 | 61.8 | 88.6 | 70.7 | 62.6 |
| AR09-292001 | 84.1 | 93.6 | 67.0 | 82.1 | 65.8 | 58.2 |
| AR09-292028 | 85.3 | 97.6 | 64.4 | 80.2 | 55.1 | 45.5 |
| AR09-292048 | 87.2 | 91.0 | 52.2 | 80.6 | 62.4 | 53.2 |
| AR09-292054 | 83.4 | 94.0 | 58.0 | 80.1 | 64.9 | 53.2 |
| AR09-292056 | 82.3 | 91.6 | 59.2 | 81.8 | 56.2 | 51.9 |
| AR09-292092 | 77.0 | 95.8 | 52.3 | 85.8 | 64.5 | 58.0 |
| E08052 | 94.2 | 91.0 | 55.9 | 76.1 | 58.1 | 47.7 |
| E08058 | 93.6 | 101.5 | 60.4 | 88.7 | 64.1 | 57.7 |
| E08130 | 87.6 | 94.0 | 57.7 | 83.4 | 64.7 | 52.2 |
| E08135 | 88.8 | 90.2 | 61.9 | 80.9 | 63.6 | 49.6 |
| E08142 | 89.5 | 86.0 | 61.7 | 80.1 | 60.5 | 54.4 |
| E08200 | 99.4 | 93.8 | 67.1 | 79.7 | 63.9 | 49.5 |
| E08206 | 93.7 | 93.7 | 64.7 | 75.2 | 66.1 | 47.1 |
| E08210 | 95.1 | 91.1 | 57.6 | 79.8 | 66.4 | 51.9 |
| E08235 | 92.7 | 92.8 | 59.9 | 79.2 | 62.2 | 50.2 |
| E08239 | 96.7 | 90.8 | 55.8 | 76.3 | 60.0 | 50.2 |
| E08242 | 86.2 | 85.2 | 54.4 | 78.9 | 59.4 | 51.5 |
| HS7W-29 | 96.5 | 90.8 | 57.1 | 78.7 | 63.5 | 46.0 |
| HS7W-82 | 83.8 | 89.8 | 58.5 | 79.6 | 58.9 | 52.3 |
| HS7W-194 | 87.1 | 84.1 | 53.1 | 69.0 | 61.5 | 49.3 |
| HS8W-8 | 86.7 | 95.0 | 61.8 | 84.9 | 67.5 | 54.0 |
| HS8W-83 | 87.0 | 96.4 | 65.3 | 80.3 | 68.4 | 55.4 |
| Location Mean | 87.6 | 92.6 | 59.3 | 81.2 | 63.4 | 53.1 |
| C.V. (%) | 5.4 | 4.4 | 5.1 | 6.8 | 4.1 | 5.1 |
| L.S.D. (5%) | 11.7 | 10.0 | 6.1 | 9.4 | 4.4 | 5.6 |
| Row Sp. (In.) | 30 | 30 | 7.5 | 17 | 18 | 30 |
| Rows/Plot | 4 | 4 | 8 | 5 | 5 | 4 |
| Reps | 2 | 2 | 2 | 2 | 2 | 2 |

PRELIMINARY TEST IIA, 2010

YIELD RANK

| Strain | Yield Rank | Ames IA | Urbana IL | Lafayette IN | Ingham County MI | Beermer NE |
|--------------|------------|---------|-----------|--------------|------------------|------------|
| IA2094 (II) | 11 | 4 | 23 | 12 | 9 | 11 |
| IA1022 (SCN) | 15 | 24 | 31 | 2 | 4 | 5 |
| IA3024 | 1 | 19 | 5 | 17 | 22 | 1 |
| AR07-176114 | 13 | 17 | 30 | 3 | 1 | 8 |
| AR08-286004 | 3 | 1 | 17 | 13 | 2 | 3 |
| AR08-286037 | 31 | 21 | 19 | 14 | 27 | 18 |
| AR09-192013 | 19 | 25 | 26 | 20 | 31 | 17 |
| AR09-192015 | 26 | 15 | 28 | 24 | 24 | 19 |
| AR09-192019 | 2 | 3 | 19 | 8 | 5 | 7 |
| AR09-292001 | 6 | 2 | 9 | 19 | 6 | 9 |
| AR09-292028 | 17 | 22 | 12 | 11 | 7 | 15 |
| AR09-292048 | 28 | 30 | 22 | 30 | 20 | 31 |
| AR09-292054 | 9 | 8 | 18 | 1 | 11 | 6 |
| AR09-292056 | 24 | 20 | 13 | 27 | 21 | 30 |
| AR09-292092 | 14 | 14 | 11 | 4 | 8 | 22 |
| E08052 | 23 | 26 | 2 | 23 | 16 | 28 |
| E08058 | 3 | 10 | 1 | 18 | 14 | 16 |
| E08130 | 20 | 28 | 21 | 21 | 10 | 22 |
| E08135 | 25 | 31 | 25 | 29 | 15 | 27 |
| E08142 | 26 | 27 | 27 | 31 | 26 | 25 |
| E08200 | 8 | 12 | 6 | 7 | 28 | 12 |
| E08206 | 21 | 23 | 14 | 22 | 30 | 20 |
| E08210 | 9 | 11 | 24 | 5 | 18 | 4 |
| E08235 | 22 | 18 | 16 | 25 | 29 | 21 |
| E08239 | 15 | 16 | 15 | 9 | 25 | 10 |
| E08242 | 30 | 29 | 29 | 28 | 19 | 24 |
| HS7W-29 | 11 | 7 | 4 | 10 | 13 | 13 |
| HS7W-82 | 18 | 13 | 7 | 16 | 3 | 26 |
| HS7W-194 | 29 | 9 | 10 | 26 | 23 | 29 |
| HS8W-8 | 7 | 5 | 3 | 15 | 12 | 13 |
| HS8W-83 | 5 | 6 | 8 | 6 | 17 | 2 |

PRELIMINARY TEST IIA, 2010

YIELD RANK

| Strain | Cotesfield NE | Phillips NE | Hoytville OH | Chatham ONT | Harrow ONT | Aurora SD |
|--------------|------------------|----------------|-----------------|----------------|---------------|--------------|
| IA2094 (II) | 27 | 5 | 17 | 22 | 3 | 2 |
| IA1022 (SCN) | 30 | 26 | 11 | 6 | 2 | 10 |
| IA3024 | 1 | 2 | 12 | 2 | 7 | 6 |
| AR07-176114 | 25 | 13 | 6 | 10 | 5 | 9 |
| AR08-286004 | 18 | 1 | 15 | 23 | 13 | 3 |
| AR08-286037 | 28 | 31 | 24 | 30 | 23 | 31 |
| AR09-192013 | 10 | 23 | 22 | 1 | 14 | 8 |
| AR09-192015 | 31 | 27 | 31 | 8 | 6 | 14 |
| AR09-192019 | 12 | 15 | 8 | 4 | 1 | 1 |
| AR09-292001 | 22 | 13 | 2 | 11 | 4 | 4 |
| AR09-292028 | 21 | 4 | 5 | 16 | 31 | 30 |
| AR09-292048 | 15 | 19 | 30 | 14 | 21 | 16 |
| AR09-292054 | 24 | 9 | 19 | 18 | 8 | 15 |
| AR09-292056 | 26 | 17 | 16 | 12 | 30 | 20 |
| AR09-292092 | 29 | 7 | 29 | 5 | 11 | 5 |
| E08052 | 6 | 19 | 25 | 28 | 28 | 27 |
| E08058 | 8 | 3 | 13 | 3 | 17 | 7 |
| E08130 | 14 | 9 | 20 | 9 | 18 | 18 |
| E08135 | 13 | 24 | 7 | 13 | 20 | 24 |
| E08142 | 11 | 28 | 10 | 17 | 26 | 12 |
| E08200 | 2 | 11 | 1 | 20 | 16 | 25 |
| E08206 | 7 | 12 | 4 | 29 | 9 | 28 |
| E08210 | 5 | 18 | 21 | 19 | 15 | 19 |
| E08235 | 9 | 16 | 14 | 24 | 24 | 23 |
| E08239 | 3 | 21 | 26 | 27 | 27 | 22 |
| E08242 | 20 | 29 | 27 | 25 | 25 | 21 |
| HS7W-29 | 4 | 21 | 23 | 26 | 19 | 29 |
| HS7W-82 | 23 | 25 | 18 | 21 | 29 | 17 |
| HS7W-194 | 16 | 30 | 28 | 31 | 22 | 26 |
| HS8W-8 | 19 | 8 | 8 | 7 | 10 | 13 |
| HS8W-83 | 17 | 6 | 3 | 15 | 12 | 11 |

PRELIMINARY TEST IIA, 2010

MATURITY (date)

| Strain | Mean 9 Tests | Ames IA | Urbana IL | Lafayette IN | Ingham County MI | Beermer NE |
|----------------|--------------------|------------|--------------|-----------------|------------------------|---------------|
| IA2094 (II) | 9/16 | 9/16 | 9/2 | 9/11 | | 9/16 |
| IA1022 (SCN) | -5.4 | -6 | -5 | -5 | | -5 |
| IA3024 | 6.6 | 7 | 9 | 7 | | 8 |
| AR07-176114 | -2.1 | -4 | -4 | 0 | | -2 |
| AR08-286004 | -0.7 | -4 | 0 | 0 | | -2 |
| AR08-286037 | 1.9 | 2 | 5 | 1 | | 1 |
| AR09-192013 | -1.4 | -3 | -3 | -1 | | -2 |
| AR09-192015 | -1.2 | -3 | -1 | -1 | | -1 |
| AR09-192019 | -2.2 | -3 | 1 | -1 | | -2 |
| AR09-292001 | 4.4 | 7 | 7 | 4 | | 6 |
| AR09-292028 | 1.1 | 3 | 4 | 3 | | -1 |
| AR09-292048 | 2.4 | 2 | 3 | 0 | | 1 |
| AR09-292054 | 1.1 | 2 | 0 | 0 | | 2 |
| AR09-292056 | 1.9 | 2 | 5 | 2 | | 4 |
| AR09-292092 | 6.4 | 12 | 7 | 7 | | 7 |
| E08052 | 11.3 | 15 | 15 | 13 | | 13 |
| E08058 | 6.6 | 14 | 8 | 6 | | 6 |
| E08130 | 5.2 | 6 | 0 | 5 | | 8 |
| E08135 | 3.2 | 1 | -2 | 4 | | 8 |
| E08142 | 3.9 | 2 | -1 | 4 | | 7 |
| E08200 | 5.1 | 9 | 9 | 6 | | 6 |
| E08206 | 7.2 | 14 | 11 | 7 | | 7 |
| E08210 | 0.3 | -1 | 1 | 2 | | 0 |
| E08235 | 1.4 | 2 | 4 | 1 | | 0 |
| E08239 | 6.7 | 9 | 9 | 7 | | 7 |
| E08242 | 2.9 | 1 | 3 | 4 | | 4 |
| HS7W-29 | 7.3 | 13 | 9 | 6 | | 6 |
| HS7W-82 | 8.2 | 16 | 12 | 8 | | 8 |
| HS7W-194 | 9.1 | 15 | 12 | 9 | | 9 |
| HS8W-8 | 9.7 | 15 | 13 | 11 | | 9 |
| HS8W-83 | 5.6 | 9 | 10 | 7 | | 6 |
| Date Planted | 5/21 | 5/4 | 5/10 | 5/26 | 5/30 | 5/17 |
| Days to Mature | 118 | 135 | 115 | 108 | | 108 |

PRELIMINARY TEST IIA, 2010

MATURITY (date)

| Strain | Cotesfield NE | Phillips NE | Hoytville OH | Chatham ONT | Harrow ONT | Aurora SD |
|----------------|------------------|----------------|-----------------|----------------|---------------|--------------|
| IA2094 (II) | | 9/15 | 9/14 | 9/20 | 9/25 | 9/28 |
| IA1022 (SCN) | | -5 | -4 | -6 | -8 | -6 |
| IA3024 | | 7 | 6 | 2 | 7 | 7 |
| AR07-176114 | | -3 | -1 | -3 | -2 | 0 |
| AR08-286004 | | 0 | 1 | -3 | 2 | 0 |
| AR08-286037 | | 1 | 1 | 2 | 4 | 0 |
| AR09-192013 | | -2 | -2 | -1 | 1 | 0 |
| AR09-192015 | | -2 | -1 | -2 | 0 | 0 |
| AR09-192019 | | -2 | -1 | -5 | -3 | -4 |
| AR09-292001 | | 5 | 6 | 2 | 3 | 0 |
| AR09-292028 | | 2 | 0 | -3 | 2 | 0 |
| AR09-292048 | | 1 | 4 | 0 | 6 | 6 |
| AR09-292054 | | 1 | 1 | 1 | 3 | 0 |
| AR09-292056 | | 0 | 0 | 0 | 5 | 0 |
| AR09-292092 | | 5 | 4 | 2 | 8 | 6 |
| E08052 | | 10 | 10 | 7 | 7 | 12 |
| E08058 | | 0 | 5 | 5 | 7 | 9 |
| E08130 | | 7 | 4 | 4 | 7 | 6 |
| E08135 | | 6 | 2 | 2 | 6 | 2 |
| E08142 | | 9 | 3 | 4 | 7 | 1 |
| E08200 | | 3 | 4 | 1 | 5 | 3 |
| E08206 | | 8 | 7 | 3 | 5 | 3 |
| E08210 | | 0 | 1 | -2 | 2 | 0 |
| E08235 | | 5 | 5 | -3 | -1 | 0 |
| E08239 | | 7 | 6 | 2 | 8 | 6 |
| E08242 | | 3 | 2 | 1 | 6 | 3 |
| HS7W-29 | | 6 | 5 | 5 | 8 | 8 |
| HS7W-82 | | 6 | 6 | 3 | 6 | 9 |
| HS7W-194 | | 6 | 6 | 6 | 7 | 12 |
| HS8W-8 | | 10 | 9 | 7 | 5 | 9 |
| HS8W-83 | | 8 | 6 | 0 | 5 | 0 |
| Date Planted | 5/14 | 5/18 | 5/29 | 5/27 | 6/15 | 5/19 |
| Days to Mature | | 120 | 108 | 116 | 102 | 132 |

PRELIMINARY TEST IIA, 2010

LODGING (score)

| Strain | Mean 10 Tests | Ames IA | Urbana IL | Lafayette IN | Ingham County MI | Beermer NE |
|--------------|---------------------|------------|--------------|-----------------|------------------------|---------------|
| IA2094 (II) | 1.4 | 2.5 | 1.3 | 1.0 | 1.5 | 1.5 |
| IA1022 (SCN) | 1.5 | 2.5 | 1.3 | 1.0 | 1.5 | 2.5 |
| IA3024 | 1.2 | 2.0 | 1.3 | 1.0 | 2.0 | 1.0 |
| AR07-176114 | 1.1 | 1.5 | 1.0 | 1.0 | 1.0 | 1.0 |
| AR08-286004 | 1.3 | 2.5 | 1.0 | 1.0 | 2.0 | 1.0 |
| AR08-286037 | 1.6 | 3.0 | 1.5 | 1.0 | 2.0 | 1.5 |
| AR09-192013 | 1.3 | 2.5 | 1.3 | 1.0 | 2.0 | 1.0 |
| AR09-192015 | 1.7 | 3.5 | 1.5 | 1.3 | 2.0 | 2.0 |
| AR09-192019 | 1.3 | 3.0 | 1.3 | 1.0 | 1.5 | 1.0 |
| AR09-292001 | 1.2 | 2.0 | 1.3 | 1.0 | 1.5 | 1.0 |
| AR09-292028 | 1.2 | 3.0 | 1.3 | 1.0 | 1.0 | 1.0 |
| AR09-292048 | 1.3 | 2.5 | 1.5 | 1.0 | 1.5 | 1.5 |
| AR09-292054 | 1.6 | 3.5 | 1.0 | 1.0 | 2.0 | 1.0 |
| AR09-292056 | 1.5 | 2.5 | 1.0 | 1.3 | 2.0 | 2.0 |
| AR09-292092 | 1.9 | 3.0 | 1.5 | 1.5 | 2.5 | 3.0 |
| E08052 | 2.1 | 3.5 | 2.0 | 1.5 | 2.0 | 3.0 |
| E08058 | 1.7 | 4.0 | 1.5 | 1.3 | 1.5 | 2.5 |
| E08130 | 1.5 | 2.5 | 1.0 | 1.0 | 1.5 | 1.0 |
| E08135 | 1.3 | 2.5 | 1.0 | 1.0 | 1.0 | 1.5 |
| E08142 | 1.4 | 3.0 | 1.0 | 1.0 | 2.0 | 1.5 |
| E08200 | 1.5 | 3.0 | 1.5 | 1.0 | 1.5 | 1.0 |
| E08206 | 1.2 | 3.0 | 1.3 | 1.0 | 1.0 | 1.0 |
| E08210 | 1.2 | 2.5 | 1.0 | 1.0 | 1.5 | 1.0 |
| E08235 | 1.1 | 2.0 | 1.3 | 1.0 | 1.0 | 1.0 |
| E08239 | 1.2 | 2.0 | 1.5 | 1.0 | 1.0 | 1.0 |
| E08242 | 1.1 | 2.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| HS7W-29 | 1.8 | 3.0 | 1.5 | 1.5 | 2.5 | 2.0 |
| HS7W-82 | 1.5 | 2.5 | 1.3 | 1.0 | 2.0 | 1.5 |
| HS7W-194 | 1.5 | 2.5 | 1.5 | 1.3 | 1.5 | 2.0 |
| HS8W-8 | 1.8 | 3.5 | 1.5 | 1.3 | 2.0 | 2.5 |
| HS8W-83 | 1.4 | 3.0 | 1.5 | 1.0 | 1.0 | 2.0 |

PRELIMINARY TEST IIA, 2010

LODGING (score)

| Strain | Cotesfield NE | Phillips NE | Hoytville OH | Chatham ONT | Harrow ONT | Aurora SD |
|--------------|------------------|----------------|-----------------|----------------|---------------|--------------|
| IA2094 (II) | | 1.0 | 1.0 | 1.0 | 1.0 | 2.0 |
| IA1022 (SCN) | | 2.0 | 1.0 | 1.5 | 1.0 | 1.0 |
| IA3024 | | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| AR07-176114 | | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| AR08-286004 | | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| AR08-286037 | | 2.0 | 1.0 | 2.0 | 1.0 | 1.0 |
| AR09-192013 | | 1.5 | 1.0 | 1.0 | 1.0 | 1.0 |
| AR09-192015 | | 2.0 | 1.0 | 2.0 | 1.0 | 1.0 |
| AR09-192019 | | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| AR09-292001 | | 1.0 | 1.0 | 1.5 | 1.0 | 1.0 |
| AR09-292028 | | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| AR09-292048 | | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| AR09-292054 | | 1.0 | 1.0 | 1.0 | 1.0 | 3.0 |
| AR09-292056 | | 1.0 | 1.0 | 1.5 | 1.0 | 2.0 |
| AR09-292092 | | 2.0 | 1.0 | 2.0 | 1.0 | 1.0 |
| E08052 | | 1.5 | 1.0 | 2.0 | 1.5 | 3.0 |
| E08058 | | 1.0 | 1.0 | 2.0 | 1.0 | 1.0 |
| E08130 | | 1.0 | 1.0 | 1.5 | 1.0 | 3.0 |
| E08135 | | 1.0 | 1.0 | 1.5 | 1.0 | 1.0 |
| E08142 | | 1.0 | 1.0 | 1.5 | 1.0 | 1.0 |
| E08200 | | 2.0 | 1.0 | 1.5 | 1.0 | 1.0 |
| E08206 | | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| E08210 | | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| E08235 | | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| E08239 | | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| E08242 | | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| HS7W-29 | | 2.0 | 1.0 | 1.5 | 1.5 | 1.0 |
| HS7W-82 | | 1.0 | 1.0 | 1.5 | 1.0 | 2.0 |
| HS7W-194 | | 1.0 | 1.0 | 1.5 | 1.0 | 2.0 |
| HS8W-8 | | 1.5 | 1.0 | 2.0 | 1.0 | 2.0 |
| HS8W-83 | | 1.0 | 1.0 | 1.5 | 1.0 | 1.0 |

PRELIMINARY TEST IIA, 2010

PLANT HEIGHT (inches)

| Strain | Mean 9 Tests | Ames IA | Urbana IL | Lafayette IN | Ingham County MI | Beermer NE |
|--------------|--------------------|------------|--------------|-----------------|------------------------|---------------|
| IA2094 (II) | 36 | 38 | 29 | 38 | 38 | |
| IA1022 (SCN) | 34 | 35 | 22 | 34 | 35 | |
| IA3024 | 37 | 35 | 30 | 39 | 37 | |
| AR07-176114 | 35 | 37 | 25 | 38 | 34 | |
| AR08-286004 | 34 | 36 | 28 | 36 | 34 | |
| AR08-286037 | 39 | 37 | 31 | 39 | 42 | |
| AR09-192013 | 38 | 41 | 29 | 40 | 36 | |
| AR09-192015 | 39 | 45 | 26 | 41 | 38 | |
| AR09-192019 | 35 | 36 | 27 | 38 | 35 | |
| AR09-292001 | 35 | 40 | 26 | 37 | 38 | |
| AR09-292028 | 38 | 38 | 34 | 41 | 37 | |
| AR09-292048 | 34 | 34 | 28 | 36 | 36 | |
| AR09-292054 | 37 | 34 | 32 | 39 | 35 | |
| AR09-292056 | 38 | 39 | 31 | 41 | 36 | |
| AR09-292092 | 39 | 42 | 31 | 42 | 39 | |
| E08052 | 45 | 47 | 43 | 51 | 42 | |
| E08058 | 39 | 40 | 37 | 44 | 40 | |
| E08130 | 38 | 43 | 28 | 38 | 42 | |
| E08135 | 39 | 41 | 27 | 38 | 44 | |
| E08142 | 39 | 45 | 28 | 38 | 42 | |
| E08200 | 39 | 41 | 33 | 41 | 39 | |
| E08206 | 37 | 40 | 30 | 39 | 36 | |
| E08210 | 35 | 35 | 27 | 36 | 37 | |
| E08235 | 37 | 42 | 30 | 42 | 37 | |
| E08239 | 36 | 41 | 30 | 38 | 34 | |
| E08242 | 36 | 41 | 26 | 38 | 36 | |
| HS7W-29 | 41 | 43 | 32 | 46 | 41 | |
| HS7W-82 | 36 | 41 | 33 | 40 | 35 | |
| HS7W-194 | 38 | 42 | 34 | 42 | 35 | |
| HS8W-8 | 42 | 45 | 31 | 44 | 41 | |
| HS8W-83 | 39 | 45 | 30 | 44 | 37 | |

PRELIMINARY TEST IIA, 2010

PLANT HEIGHT (inches)

| Strain | Cotesfield NE | Phillips NE | Hoytville OH | Chatham ONT | Harrow ONT | Aurora SD |
|--------------|------------------|----------------|-----------------|----------------|---------------|--------------|
| IA2094 (II) | 30 | | 31 | 37 | 36 | 45 |
| IA1022 (SCN) | 28 | | 31 | 37 | 38 | 49 |
| IA3024 | 37 | | 33 | 41 | 38 | 47 |
| AR07-176114 | 33 | | 30 | 38 | 37 | 42 |
| AR08-286004 | 35 | | 27 | 33 | 36 | 39 |
| AR08-286037 | 34 | | 36 | 40 | 43 | 47 |
| AR09-192013 | 38 | | 32 | 43 | 41 | 45 |
| AR09-192015 | 36 | | 33 | 42 | 42 | 48 |
| AR09-192019 | 31 | | 29 | 38 | 39 | 39 |
| AR09-292001 | 33 | | 29 | 37 | 38 | 40 |
| AR09-292028 | 35 | | 35 | 42 | 40 | 43 |
| AR09-292048 | 32 | | 28 | 37 | 37 | 41 |
| AR09-292054 | 38 | | 34 | 39 | 40 | 45 |
| AR09-292056 | 39 | | 32 | 41 | 37 | 43 |
| AR09-292092 | 37 | | 31 | 41 | 40 | 47 |
| E08052 | 45 | | 39 | 44 | 44 | 50 |
| E08058 | 36 | | 31 | 42 | 38 | 41 |
| E08130 | 34 | | 28 | 39 | 43 | 45 |
| E08135 | 37 | | 31 | 41 | 42 | 47 |
| E08142 | 37 | | 31 | 41 | 41 | 45 |
| E08200 | 38 | | 35 | 40 | 41 | 45 |
| E08206 | 36 | | 30 | 38 | 39 | 42 |
| E08210 | 32 | | 29 | 38 | 39 | 42 |
| E08235 | 35 | | 30 | 39 | 38 | 40 |
| E08239 | 37 | | 30 | 40 | 37 | 37 |
| E08242 | 33 | | 28 | 41 | 38 | 42 |
| HS7W-29 | 39 | | 36 | 44 | 45 | 47 |
| HS7W-82 | 32 | | 30 | 43 | 35 | 38 |
| HS7W-194 | 40 | | 34 | 41 | 37 | 41 |
| HS8W-8 | 41 | | 37 | 47 | 45 | 47 |
| HS8W-83 | 35 | | 33 | 42 | 41 | 45 |

PRELIMINARY TEST IIA, 2010

SEED QUALITY (score)

| Strain | Mean 8 Tests | Ames IA | Urbana IL | Lafayette IN | Ingham County MI | Beermer NE |
|--------------|--------------------|------------|--------------|-----------------|------------------------|---------------|
| IA2094 (II) | 1.6 | 2.0 | 2.0 | 1.0 | | |
| IA1022 (SCN) | 1.3 | 2.0 | 1.0 | 1.0 | | |
| IA3024 | 1.5 | 1.0 | 3.0 | 2.0 | | |
| AR07-176114 | 1.6 | 1.0 | 3.0 | 1.5 | | |
| AR08-286004 | 1.4 | 2.0 | 1.0 | 1.0 | | |
| AR08-286037 | 1.3 | 1.0 | 1.0 | 1.0 | | |
| AR09-192013 | 1.6 | 2.0 | 3.0 | 1.5 | | |
| AR09-192015 | 1.4 | 2.0 | 1.0 | 1.0 | | |
| AR09-192019 | 1.6 | 2.0 | 2.0 | 1.5 | | |
| AR09-292001 | 1.6 | 2.0 | 2.0 | 1.0 | | |
| AR09-292028 | 1.6 | 2.0 | 3.0 | 2.0 | | |
| AR09-292048 | 1.9 | 2.0 | 3.0 | 1.0 | | |
| AR09-292054 | 1.5 | 2.0 | 1.0 | 1.0 | | |
| AR09-292056 | 1.6 | 3.0 | 1.0 | 1.0 | | |
| AR09-292092 | 1.4 | 2.0 | 1.0 | 1.0 | | |
| E08052 | 1.5 | 1.0 | 2.0 | 1.0 | | |
| E08058 | 1.3 | 1.0 | 1.0 | 1.0 | | |
| E08130 | 1.4 | 2.0 | 1.0 | 1.0 | | |
| E08135 | 1.3 | 1.0 | 1.0 | 1.0 | | |
| E08142 | 1.5 | 2.0 | 2.0 | 1.0 | | |
| E08200 | 1.9 | 3.0 | 3.0 | 2.0 | | |
| E08206 | 1.9 | 2.0 | 3.0 | 1.5 | | |
| E08210 | 2.1 | 4.0 | 3.0 | 1.0 | | |
| E08235 | 2.0 | 2.0 | 4.0 | 1.5 | | |
| E08239 | 1.4 | 2.0 | 1.0 | 1.5 | | |
| E08242 | 1.9 | 3.0 | 3.0 | 2.5 | | |
| HS7W-29 | 1.6 | 2.0 | 1.0 | 1.0 | | |
| HS7W-82 | 1.8 | 3.0 | 1.0 | 1.0 | | |
| HS7W-194 | 1.1 | 1.0 | 1.0 | 1.0 | | |
| HS8W-8 | 1.5 | 2.0 | 2.0 | 1.0 | | |
| HS8W-83 | 1.6 | 2.0 | 2.0 | 1.0 | | |

PRELIMINARY TEST IIA, 2010

SEED QUALITY (score)

| Strain | Cotesfield NE | Phillips NE | Hoytville OH | Chatham ONT | Harrow ONT | Aurora SD |
|--------------|------------------|----------------|-----------------|----------------|---------------|--------------|
| IA2094 (II) | | 2.0 | 1.0 | 1.5 | 1.0 | 2.0 |
| IA1022 (SCN) | | 2.0 | 1.0 | 1.5 | 1.0 | 1.0 |
| IA3024 | | 1.0 | 1.0 | 1.0 | 1.0 | 2.0 |
| AR07-176114 | | 2.0 | 1.0 | 1.5 | 1.0 | 2.0 |
| AR08-286004 | | 2.0 | 1.0 | 1.0 | 1.0 | 2.0 |
| AR08-286037 | | 1.0 | 1.0 | 1.5 | 1.0 | 3.0 |
| AR09-192013 | | 1.0 | 1.0 | 1.0 | 1.0 | 2.0 |
| AR09-192015 | | 2.0 | 1.0 | 1.5 | 1.0 | 2.0 |
| AR09-192019 | | 2.0 | 1.0 | 1.5 | 1.0 | 2.0 |
| AR09-292001 | | 1.0 | 1.5 | 1.5 | 1.0 | 3.0 |
| AR09-292028 | | 2.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| AR09-292048 | | 2.0 | 2.0 | 1.5 | 1.0 | 3.0 |
| AR09-292054 | | 2.0 | 1.0 | 1.0 | 1.0 | 3.0 |
| AR09-292056 | | 2.0 | 1.0 | 1.0 | 1.0 | 3.0 |
| AR09-292092 | | 2.0 | 1.0 | 1.0 | 1.0 | 2.0 |
| E08052 | | 2.0 | 2.0 | 2.0 | 1.0 | 1.0 |
| E08058 | | 2.0 | 1.0 | 1.5 | 1.0 | 2.0 |
| E08130 | | 2.0 | 1.0 | 1.0 | 1.0 | 2.0 |
| E08135 | | 2.0 | 1.0 | 1.5 | 1.0 | 2.0 |
| E08142 | | 2.0 | 1.0 | 1.0 | 1.0 | 2.0 |
| E08200 | | 2.0 | 2.0 | 1.0 | 1.0 | 1.0 |
| E08206 | | 2.0 | 2.0 | 1.0 | 1.0 | 3.0 |
| E08210 | | 2.0 | 1.0 | 2.0 | 1.0 | 3.0 |
| E08235 | | 2.0 | 2.0 | 1.5 | 1.0 | 2.0 |
| E08239 | | 2.0 | 1.0 | 1.0 | 1.0 | 2.0 |
| E08242 | | 1.0 | 1.5 | 1.0 | 1.0 | 2.0 |
| HS7W-29 | | 2.0 | 1.0 | 1.5 | 1.0 | 3.0 |
| HS7W-82 | | 1.0 | 2.0 | 1.5 | 1.0 | 4.0 |
| HS7W-194 | | 1.0 | 1.0 | 1.0 | 1.0 | 2.0 |
| HS8W-8 | | 1.0 | 1.0 | 2.0 | 1.0 | 2.0 |
| HS8W-83 | | 2.0 | 1.0 | 1.5 | 1.0 | 2.0 |

PRELIMINARY TEST IIA, 2010

SEED SIZE (g/100)

| Strain | Mean 11 Tests | Ames IA | Urbana IL | Lafayette IN | Ingham County MI | Beermer NE |
|--------------|---------------------|------------|--------------|-----------------|------------------------|---------------|
| IA2094 (II) | 14.7 | 16.7 | 13.6 | 14.1 | 15.1 | 13.5 |
| IA1022 (SCN) | 14.5 | 15.9 | 12.8 | 14.7 | 13.8 | 13.7 |
| IA3024 | 15.1 | 16.1 | 13.1 | 13.7 | 14.1 | 14.7 |
| AR07-176114 | 16.2 | 16.2 | 15.0 | 16.8 | 16.7 | 13.2 |
| AR08-286004 | 14.0 | 15.5 | 12.0 | 12.0 | 14.8 | 12.9 |
| AR08-286037 | 14.7 | 15.8 | 12.6 | 14.5 | 16.2 | 13.0 |
| AR09-192013 | 15.9 | 17.9 | 14.1 | 16.5 | 14.8 | 14.9 |
| AR09-192015 | 13.6 | 14.9 | 11.9 | 13.2 | 13.6 | 12.9 |
| AR09-192019 | 14.9 | 16.6 | 12.8 | 15.2 | 13.6 | 14.2 |
| AR09-292001 | 13.3 | 14.5 | 11.3 | 12.4 | 13.9 | 12.9 |
| AR09-292028 | 15.7 | 16.3 | 13.8 | 15.5 | 16.9 | 13.8 |
| AR09-292048 | 14.1 | 15.4 | 11.9 | 12.8 | 15.9 | 13.2 |
| AR09-292054 | 15.0 | 16.3 | 13.9 | 15.0 | 14.5 | 14.0 |
| AR09-292056 | 13.2 | 13.6 | 11.4 | 12.2 | 12.7 | 13.3 |
| AR09-292092 | 13.0 | 13.6 | 11.0 | 12.6 | 14.1 | 12.6 |
| E08052 | 14.9 | 15.1 | 13.6 | 15.0 | 14.9 | 14.2 |
| E08058 | 14.2 | 15.8 | 12.7 | 13.6 | 13.1 | 13.9 |
| E08130 | 14.9 | 15.5 | 14.5 | 15.3 | 15.1 | 13.0 |
| E08135 | 15.3 | 15.4 | 14.8 | 15.3 | 15.1 | 14.6 |
| E08142 | 15.0 | 15.2 | 14.6 | 14.2 | 13.9 | 13.7 |
| E08200 | 15.6 | 16.0 | 14.8 | 15.2 | 15.1 | 14.4 |
| E08206 | 16.7 | 17.3 | 15.8 | 16.9 | 15.5 | 16.5 |
| E08210 | 15.7 | 17.0 | 14.3 | 16.1 | 15.7 | 13.6 |
| E08235 | 16.5 | 18.4 | 16.1 | 16.7 | 14.7 | 16.0 |
| E08239 | 16.2 | 17.5 | 14.5 | 16.3 | 14.6 | 16.5 |
| E08242 | 15.2 | 15.8 | 12.6 | 14.1 | 15.5 | 14.2 |
| HS7W-29 | 13.9 | 14.2 | 12.1 | 13.4 | 14.7 | 12.4 |
| HS7W-82 | 15.1 | 16.1 | 13.2 | 14.6 | 15.4 | 13.9 |
| HS7W-194 | 13.7 | 14.7 | 11.0 | 13.1 | 13.9 | 13.5 |
| HS8W-8 | 14.3 | 14.8 | 12.6 | 14.5 | 15.5 | 13.3 |
| HS8W-83 | 14.4 | 15.1 | 13.8 | 14.0 | 14.0 | 14.3 |

PRELIMINARY TEST IIA, 2010

SEED SIZE (g/100)

| Strain | Cotesfield NE | Phillips NE | Hoytville OH | Chatham ONT | Harrow ONT | Aurora SD |
|--------------|------------------|----------------|-----------------|----------------|---------------|--------------|
| IA2094 (II) | 14.3 | 16.3 | 14.0 | 14.7 | 13.9 | 15.7 |
| IA1022 (SCN) | 15.6 | 17.4 | 13.4 | 15.4 | 13.5 | 13.9 |
| IA3024 | 17.1 | 17.2 | 13.8 | 15.7 | 14.4 | 15.9 |
| AR07-176114 | 16.2 | 18.6 | 17.0 | 16.2 | 15.6 | 16.3 |
| AR08-286004 | 15.9 | 16.5 | 12.4 | 14.3 | 12.6 | 14.8 |
| AR08-286037 | 15.5 | 15.9 | 13.4 | 16.5 | 14.2 | 13.8 |
| AR09-192013 | 18.1 | 17.4 | 13.8 | 16.7 | 14.3 | 16.3 |
| AR09-192015 | 13.4 | 14.4 | 12.8 | 15.1 | 13.2 | 14.5 |
| AR09-192019 | 16.9 | 16.8 | 13.2 | 15.1 | 14.0 | 15.6 |
| AR09-292001 | 13.7 | 14.1 | 12.2 | 13.5 | 13.4 | 14.2 |
| AR09-292028 | 17.2 | 18.8 | 14.7 | 15.7 | 14.3 | 15.3 |
| AR09-292048 | 14.2 | 15.4 | 12.2 | 14.2 | 13.8 | 16.0 |
| AR09-292054 | 15.8 | 16.6 | 14.1 | 15.8 | 14.5 | 14.6 |
| AR09-292056 | 14.6 | 14.7 | 11.6 | 14.3 | 12.2 | 14.4 |
| AR09-292092 | 13.4 | 13.4 | 11.8 | 13.2 | 13.3 | 14.0 |
| E08052 | 16.4 | 15.1 | 12.2 | 15.4 | 16.1 | 15.7 |
| E08058 | 16.7 | 16.1 | 12.1 | 14.9 | 13.2 | 14.5 |
| E08130 | 16.2 | 16.3 | 13.2 | 14.9 | 14.1 | 15.3 |
| E08135 | 17.5 | 17.0 | 13.7 | 16.0 | 14.0 | 14.8 |
| E08142 | 17.6 | 15.5 | 14.1 | 16.3 | 13.9 | 15.7 |
| E08200 | 17.1 | 17.9 | 15.1 | 15.6 | 14.9 | 15.9 |
| E08206 | 18.2 | 19.3 | 15.2 | 15.9 | 16.7 | 16.9 |
| E08210 | 16.9 | 17.9 | 14.5 | 16.4 | 14.3 | 15.8 |
| E08235 | 19.7 | 18.9 | 14.1 | 17.0 | 15.1 | 14.9 |
| E08239 | 17.9 | 17.8 | 14.4 | 16.9 | 15.5 | 16.7 |
| E08242 | 16.0 | 16.6 | 14.6 | 17.0 | 14.7 | 16.3 |
| HS7W-29 | 15.6 | 15.9 | 12.9 | 14.1 | 14.3 | 13.7 |
| HS7W-82 | 17.4 | 17.3 | 12.6 | 15.6 | 15.0 | 15.1 |
| HS7W-194 | 14.8 | 14.3 | 11.5 | 14.6 | 14.3 | 14.6 |
| HS8W-8 | 15.9 | 14.5 | 12.6 | 15.7 | 13.5 | 14.5 |
| HS8W-83 | 15.7 | 15.9 | 13.9 | 14.0 | 13.8 | 14.5 |

PRELIMINARY TEST IIA, 2010

PROTEIN (%)

| Strain | Mean 9 Tests | Ames IA | Urbana IL | Lafayette IN | Ingham County MI | Phillips NE | Hoytville OH | Chatham ONT | Harrow ONT | Aurora SD |
|--------------|--------------------|------------|--------------|-----------------|------------------------|----------------|-----------------|----------------|---------------|--------------|
| IA2094 (II) | 35.1 | 35.9 | 33.5 | 34.8 | 35.9 | 34.4 | 33.8 | 35.6 | 36.5 | 35.3 |
| IA1022 (SCN) | 33.6 | 34.9 | 33.1 | 34.6 | 33.4 | 33.6 | 32.1 | 33.8 | 33.8 | 32.7 |
| IA3024 | 33.2 | 33.9 | 31.7 | 33.1 | 33.0 | 32.5 | 31.2 | 34.0 | 34.3 | 35.1 |
| AR07-176114 | 34.1 | 36.1 | 33.5 | 34.4 | 34.4 | 34.0 | 32.7 | 33.0 | 35.4 | 33.9 |
| AR08-286004 | 34.7 | 35.4 | 34.0 | 34.7 | 35.5 | 34.4 | 33.2 | 34.6 | 36.4 | 34.3 |
| AR08-286037 | 35.2 | 36.6 | 33.7 | 36.3 | 34.8 | 34.7 | 33.8 | 36.2 | 36.5 | 34.5 |
| AR09-192013 | 35.8 | 36.1 | 34.6 | 35.8 | 36.4 | 34.9 | 34.5 | 36.3 | 38.2 | 35.0 |
| AR09-192015 | 35.5 | 36.1 | 34.4 | 35.7 | 36.3 | 35.1 | 34.0 | 35.9 | 37.4 | 34.8 |
| AR09-192019 | 35.6 | 35.7 | 35.0 | 35.7 | 36.5 | 35.8 | 33.3 | 35.9 | 37.2 | 35.2 |
| AR09-292001 | 34.1 | 35.4 | 33.4 | 34.3 | 34.7 | 33.5 | 32.0 | 35.3 | 35.2 | 32.9 |
| AR09-292028 | 34.0 | 35.4 | 31.8 | 34.1 | 33.7 | 33.4 | 31.8 | 35.0 | 36.5 | 34.6 |
| AR09-292048 | 33.9 | 34.0 | 33.2 | 34.3 | 34.1 | 33.2 | 32.6 | 34.2 | 35.8 | 33.4 |
| AR09-292054 | 35.3 | 35.8 | 34.9 | 35.2 | 35.8 | 34.7 | 33.7 | 35.7 | 37.4 | 34.3 |
| AR09-292056 | 34.7 | 35.7 | 33.6 | 34.3 | 35.0 | 34.0 | 32.8 | 35.7 | 36.9 | 34.6 |
| AR09-292092 | 34.6 | 36.1 | 33.8 | 34.2 | 35.1 | 34.7 | 32.5 | 35.7 | 35.3 | 33.5 |
| E08052 | 34.2 | 35.6 | 33.5 | 34.4 | 34.6 | 33.7 | 32.7 | 34.5 | 35.3 | 33.7 |
| E08058 | 33.9 | 34.9 | 32.6 | 33.9 | 33.7 | 33.1 | 33.5 | 34.5 | 35.2 | 33.2 |
| E08130 | 33.4 | 33.8 | 33.6 | 33.7 | 33.7 | 33.5 | 31.3 | 34.3 | 32.6 | 34.2 |
| E08135 | 33.4 | 35.8 | 33.3 | 33.9 | 32.7 | 34.8 | 31.6 | 33.0 | 32.9 | 32.8 |
| E08142 | 33.4 | 34.1 | 34.3 | 33.4 | 34.4 | 33.5 | 31.0 | 32.9 | 33.1 | 34.0 |
| E08200 | 34.6 | 35.5 | 33.1 | 33.9 | 35.8 | 34.7 | 32.7 | 35.6 | 36.8 | 33.8 |
| E08206 | 34.7 | 35.8 | 34.0 | 35.2 | 35.7 | 35.7 | 32.3 | 34.2 | 35.8 | 33.5 |
| E08210 | 34.3 | 35.0 | 32.8 | 34.2 | 34.6 | 34.0 | 32.5 | 35.6 | 36.6 | 33.4 |
| E08235 | 34.8 | 35.7 | 33.9 | 34.0 | 35.7 | 35.3 | 33.2 | 35.0 | 35.6 | 34.8 |
| E08239 | 35.9 | 36.3 | 35.3 | 35.9 | 37.2 | 35.4 | 34.3 | 36.3 | 36.6 | 35.7 |
| E08242 | 34.4 | 35.2 | 33.4 | 34.7 | 34.9 | 34.2 | 32.9 | 34.7 | 35.4 | 33.8 |
| HS7W-29 | 34.3 | 34.9 | 33.4 | 34.2 | 35.6 | 34.4 | 33.1 | 35.1 | 34.7 | 33.2 |
| HS7W-82 | 34.5 | 34.9 | 34.0 | 33.7 | 34.9 | 33.5 | 33.6 | 35.4 | 35.9 | 34.2 |
| HS7W-194 | 36.1 | 36.7 | 35.6 | 35.8 | 37.2 | 35.6 | 34.9 | 37.0 | 37.1 | 35.1 |
| HS8W-8 | 34.3 | 34.7 | 34.8 | 34.8 | 34.4 | 33.7 | 33.3 | 34.4 | 34.5 | 34.0 |
| HS8W-83 | 33.8 | 34.3 | 34.0 | 34.2 | 35.0 | 33.9 | 32.2 | 33.9 | 33.8 | 32.9 |

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

PRELIMINARY TEST IIA, 2010

OIL (%)

| Strain | Mean 9 Tests | Ames IA | Urbana IL | Lafayette IN | Ingham County MI | Phillips NE | Hoytville OH | Chatham ONT | Harrow ONT | Aurora SD |
|--------------|--------------------|------------|--------------|-----------------|------------------------|----------------|-----------------|----------------|---------------|--------------|
| IA2094 (II) | 17.8 | 18.2 | 18.2 | 17.8 | 17.0 | 18.2 | 17.8 | 18.7 | 17.6 | 17.1 |
| IA1022 (SCN) | 19.5 | 19.6 | 19.9 | 19.2 | 19.1 | 19.8 | 19.4 | 20.4 | 19.7 | 18.1 |
| IA3024 | 18.5 | 18.8 | 19.1 | 18.1 | 17.7 | 19.2 | 18.5 | 19.1 | 18.6 | 17.8 |
| AR07-176114 | 18.7 | 19.2 | 18.8 | 18.7 | 17.8 | 18.6 | 19.0 | 20.4 | 18.8 | 17.3 |
| AR08-286004 | 17.7 | 18.0 | 18.1 | 17.5 | 18.1 | 18.0 | 17.5 | 18.5 | 16.9 | 16.7 |
| AR08-286037 | 17.5 | 17.4 | 17.9 | 16.7 | 17.2 | 17.6 | 17.3 | 18.9 | 18.0 | 16.5 |
| AR09-192013 | 17.4 | 18.1 | 16.7 | 17.7 | 16.8 | 18.1 | 16.9 | 18.3 | 16.4 | 17.5 |
| AR09-192015 | 17.0 | 18.1 | 16.5 | 16.3 | 16.3 | 17.5 | 16.6 | 18.5 | 16.8 | 16.4 |
| AR09-192019 | 17.8 | 18.2 | 18.5 | 18.5 | 16.9 | 18.6 | 17.8 | 18.7 | 16.9 | 16.4 |
| AR09-292001 | 18.4 | 19.0 | 18.6 | 18.4 | 17.4 | 19.1 | 18.9 | 18.7 | 18.3 | 17.3 |
| AR09-292028 | 18.4 | 19.1 | 19.3 | 18.6 | 18.2 | 18.9 | 18.4 | 19.2 | 16.7 | 17.6 |
| AR09-292048 | 18.1 | 18.6 | 18.8 | 18.1 | 17.8 | 19.0 | 17.7 | 18.7 | 16.9 | 17.1 |
| AR09-292054 | 17.5 | 17.6 | 18.0 | 17.9 | 16.9 | 17.7 | 17.3 | 18.8 | 16.9 | 16.2 |
| AR09-292056 | 17.2 | 18.0 | 17.3 | 16.7 | 16.8 | 17.6 | 17.4 | 18.2 | 16.8 | 16.1 |
| AR09-292092 | 17.2 | 17.4 | 17.1 | 16.9 | 16.6 | 16.9 | 17.5 | 17.7 | 17.9 | 16.7 |
| E08052 | 18.0 | 18.7 | 18.2 | 17.9 | 16.8 | 17.9 | 18.1 | 18.9 | 18.4 | 16.7 |
| E08058 | 18.2 | 18.8 | 18.4 | 17.5 | 17.9 | 18.9 | 18.8 | 18.7 | 17.9 | 17.0 |
| E08130 | 17.9 | 18.2 | 18.1 | 17.1 | 17.8 | 17.7 | 17.8 | 18.0 | 18.8 | 17.0 |
| E08135 | 17.7 | 18.5 | 17.4 | 17.1 | 17.1 | 17.4 | 17.7 | 19.1 | 18.6 | 16.6 |
| E08142 | 18.0 | 18.2 | 18.0 | 17.4 | 17.5 | 17.7 | 18.1 | 19.2 | 18.7 | 16.8 |
| E08200 | 17.5 | 17.9 | 17.6 | 17.4 | 16.0 | 18.1 | 17.8 | 18.6 | 17.6 | 16.8 |
| E08206 | 17.7 | 18.3 | 17.1 | 17.0 | 16.3 | 18.3 | 17.6 | 19.5 | 18.4 | 16.9 |
| E08210 | 17.7 | 17.8 | 18.1 | 17.3 | 16.4 | 17.9 | 18.0 | 19.1 | 17.8 | 16.9 |
| E08235 | 18.7 | 18.8 | 18.6 | 18.3 | 18.2 | 18.7 | 18.8 | 20.2 | 18.8 | 17.5 |
| E08239 | 17.4 | 18.0 | 17.9 | 16.7 | 16.5 | 17.8 | 17.4 | 18.0 | 17.3 | 17.3 |
| E08242 | 17.8 | 18.3 | 17.9 | 17.2 | 17.7 | 18.3 | 18.1 | 18.3 | 17.8 | 16.9 |
| HS7W-29 | 17.8 | 17.9 | 17.8 | 17.5 | 18.4 | 17.9 | 17.6 | 18.4 | 17.6 | 16.9 |
| HS7W-82 | 17.3 | 18.0 | 17.9 | 17.0 | 16.8 | 18.3 | 17.2 | 17.7 | 16.9 | 16.2 |
| HS7W-194 | 16.7 | 18.0 | 16.0 | 16.8 | 15.5 | 16.9 | 16.5 | 17.4 | 16.9 | 16.1 |
| HS8W-8 | 18.0 | 18.3 | 18.1 | 18.1 | 17.4 | 18.5 | 18.2 | 18.9 | 18.3 | 16.8 |
| HS8W-83 | 17.9 | 18.2 | 17.8 | 17.7 | 17.2 | 18.2 | 18.2 | 18.6 | 18.4 | 17.3 |

Preliminary Test IIB, 2010

| Ent. | Strain | Parentage | Seed Source | Gen. Comp. | Unique Traits |
|------|--------------|---|-------------|------------|----------------|
| 1 | IA2094 (II) | AgriPro X0121B74 x A00-711036 | Fehr | F4 | |
| 2 | IA1022 (SCN) | Dairyland 98822 x A00-711024 | Fehr | F5 | SCN |
| 3 | IA3024 | A97-553017 x Pioneer YB33A99 | Fehr | | 1% linolenic |
| 4 | LG07-6843 | LG00-7196 x LG98-1454 | Nelson | F6 | Diversity |
| 5 | LG07-6848 | LG00-7196 x LG98-1454 | Nelson | F6 | Diversity |
| 6 | LG07-6950 | LG98-1454 x LG00-2455 | Nelson | F6 | Diversity |
| 7 | LG07-6953 | LG98-1454 x LG00-2455 | Nelson | F6 | Diversity |
| 8 | LG08-3838 | LG01-4654 x H2885 | Nelson | F6 | Diversity |
| 9 | SD07CV-367 | IA2052 x Pion 9071 | Jiang | F8 | |
| 10 | SD07CV-603 | M96-355009 x Pion 9233 | Jiang | F8 | |
| 11 | SD07CV-631 | M96-355009 x Pion 9233 | Jiang | F8 | |
| 12 | SD07CV-770 | A01-409031 x Pion 9233 | Jiang | F8 | |
| 13 | SD07CV-800 | Pion 9233 x Spink | Jiang | F8 | |
| 14 | SD07CV-874 | Pion 9233 x Spink | Jiang | F8 | |
| 15 | SD07CV-878 | Pion 9233 x Spink | Jiang | F8 | |
| 16 | SD07CV-886 | Pion 9233 x Spink | Jiang | F8 | |
| 17 | U07-200135 | U00-429042-06 x (U00-429037 x Essex Rsv4) | Graef | F5 | Rsv4 |
| 18 | U07-200179 | U01-390489 x (U00-429037 x Essex Rsv4) | Graef | F5 | Rsv4, SCN?, Dt |
| 19 | U07-200211 | U01-390489 x (U00-429037 x Essex Rsv4) | Graef | F5 | SCN? |
| 20 | U07-200215 | U01-390489 x (U00-429037 x Essex Rsv4) | Graef | F5 | SCN?, Dt |
| 21 | U07-200239 | U01-390489 x (U00-429037 x Essex Rsv4) | Graef | F5 | Rsv4, SCN?, Dt |
| 22 | U07-226071 | U01-390489 x (U01-390489 x UP1-90-123-8) | Graef | BC1F5 | SCN?, Dt |
| 23 | U07-227102 | U01-390489 x (U01-390489 x UP1-90-123-8) | Graef | BC1F5 | SCN?,dt |
| 24 | U07-230086 | U01-390489 x U04-604039 | Graef | F5 | SCN?, |
| 25 | U07-336226 | U01-390787 x U04-614043 | Graef | F5 | |
| 26 | U07-342232 | U01-390787 x U04-632043 | Graef | F5 | Dt, |
| 27 | U07-348232 | U03-331729 x U04-625036 | Graef | F5 | |
| 28 | U07-402918 | U01-390489 x (U00-429037 x Essex Rsv4) | Graef | F5 | Rsv4, SCN?, Dt |
| 29 | U07-420241 | U01-390489 x U04-615036 | Graef | F5 | SCN?, Dt |
| 30 | U08-831004 | U01-390489 x (L86-1752 x PI 423972) | Graef | F5 | SCN?, Dt,Rust? |

PRELIMINARY TEST IIB, 2010

DESCRIPTIVE AND DISEASE DATA

| Strain | Descriptive Code | Green Stem | Shattering | PR | | FE |
|--------------|------------------|------------------|--------------------|------------------|------------------|------------|
| | | Score Harrow ONT | Score Manhattan KS | Lafayette Race 4 | Lafayette Race 7 | Laf. a rx. |
| IA2094 (II) | PTTSYYI | 1.0 | 2.0 | S | S | S |
| IA1022 (SCN) | PGTIYYI | 1.0 | 3.0 | S | S | - |
| IA3024 | PGTIYIbI | 1.0 | 3.0 | R* | R* | S |
| LG07-6843 | WTBDYBII | 1.0 | 2.0 | S | S | S |
| LG07-6848 | P+WTBDYBII | 1.0 | 1.0 | S | S | S |
| | | | | | | |
| LG07-6950 | PTTDYBII | 1.0 | 1.0 | S | S | S |
| LG07-6953 | PTTDYBII | 1.0 | 2.0 | S | S | S |
| LG08-3838 | PGBDYIbI | 1.0 | 2.0 | S | S | S |
| SD07CV-367 | WGBDYII | 1.0 | 2.0 | S | S | S |
| SD07CV-603 | WGBDYLbI | 1.0 | 2.0 | R* | R* | S |
| | | | | | | |
| SD07CV-631 | PGBDYII | 1.0 | 2.0 | S | S | S |
| SD07CV-770 | PTBDYBrI | 1.0 | 3.0 | S | S | S |
| SD07CV-800 | WGBDYLbI | 1.0 | 2.0 | S | S | S |
| SD07CV-874 | WTTDYBrI | 1.0 | 4.0 | S | S | S |
| SD07CV-878 | WGBDYBrI | 1.0 | 4.0 | S | S | S |
| | | | | | | |
| SD07CV-886 | WGTDYBrI | 1.0 | 3.0 | S | S | S |
| U07-200135 | PTTIYBrI | 1.0 | 3.0 | S | S | S |
| U07-200179 | WTBDYGrD | 1.0 | 1.0 | S | R* | S |
| U07-200211 | WLtBDYGrI | 1.0 | 2.0 | S | R* | - |
| U07-200215 | WLtBDYGrD | 1.0 | 2.0 | S | R* | S |
| | | | | | | |
| U07-200239 | WGBIYYD | 1.0 | 2.0 | S | R* | S |
| U07-226071 | P+WGTDYHD | 1.0 | 2.0 | S | H* | S |
| U07-227102 | PGBDYD | 1.0 | 1.0 | S | S | S |
| U07-230086 | PGBDYGrI | 1.0 | 2.0 | S | R* | S |
| U07-336226 | WGBDYII | 1.0 | 2.0 | S | S | S |
| | | | | | | |
| U07-342232 | WGBDYBrD | 1.0 | 2.0 | S | H* | S |
| U07-348232 | PTBDYBII | 1.0 | 2.0 | S | S | S |
| U07-402918 | WGTDYD | 1.0 | 1.0 | S | S | - |
| U07-420241 | WGTDYBrD | 1.0 | 2.0 | S | S | S |
| U08-831004 | WTTDYBrD | 1.0 | 2.0 | S | R* | S |

PR: * = *P. sojae* inoc. Reaction NOT compatible with breeder's information about *Rps* Trait

FE: S = susceptible, - = lesions not detected, x = no data

PRELIMINARY TEST IIB, 2010

REGIONAL SUMMARY

| No. of Tests Strain | Yield 11 bu/a | Rank 11 No. | Maturity 9 Date | Lodging 10 Score | Plant Height 9 In. | Seed Quality 8 Score | Seed Size 11 g/100 | Composition | |
|------------------------|---------------------|-------------------|-----------------------|------------------------|-----------------------------|-------------------------------|-----------------------------|-------------------|---------------|
| | | | | | | | | Protein 9 % | Oil 9 % |
| IA2094 (II) | 66.4 | 5 | 9/16 | 1.5 | 35 | 1.6 | 15.0 | 35.1 | 17.9 |
| IA1022 (SCN) | 64.8 | 11 | -5.7 | 1.6 | 36 | 1.7 | 13.9 | 33.6 | 19.4 |
| IA3024 | 72.2 | 1 | 7.3 | 1.3 | 37 | 1.6 | 15.5 | 32.7 | 18.7 |
| LG07-6843 | 59.6 | 25 | 7.0 | 1.4 | 40 | 1.4 | 14.6 | 35.1 | 17.9 |
| LG07-6848 | 60.8 | 21 | 5.8 | 2.1 | 41 | 1.4 | 14.9 | 35.2 | 17.7 |
| LG07-6950 | 66.8 | 4 | 6.7 | 1.9 | 41 | 1.4 | 14.3 | 33.6 | 18.1 |
| LG07-6953 | 66.3 | 6 | 6.2 | 2.0 | 43 | 1.4 | 14.7 | 34.5 | 18.3 |
| LG08-3838 | 67.7 | 3 | 5.4 | 1.7 | 41 | 1.4 | 14.8 | 34.7 | 18.2 |
| SD07CV-367 | 65.7 | 9 | -0.1 | 1.7 | 40 | 1.7 | 17.6 | 34.6 | 18.7 |
| SD07CV-603 | 68.1 | 2 | 2.2 | 2.4 | 37 | 1.6 | 14.3 | 35.5 | 17.7 |
| SD07CV-631 | 65.8 | 8 | 3.4 | 1.4 | 38 | 1.7 | 15.6 | 36.5 | 17.5 |
| SD07CV-770 | 64.5 | 13 | -2.8 | 1.3 | 34 | 1.7 | 15.0 | 35.0 | 18.2 |
| SD07CV-800 | 64.6 | 12 | -2.4 | 1.9 | 37 | 1.5 | 15.1 | 35.0 | 18.4 |
| SD07CV-874 | 55.9 | 28 | -1.2 | 1.7 | 40 | 1.7 | 12.7 | 34.8 | 17.3 |
| SD07CV-878 | 59.9 | 24 | -3.3 | 1.5 | 38 | 2.1 | 13.8 | 34.4 | 18.3 |
| SD07CV-886 | 62.4 | 17 | -0.9 | 1.7 | 39 | 1.7 | 13.3 | 35.4 | 17.2 |
| U07-200135 | 63.1 | 14 | 0.0 | 1.2 | 36 | 1.4 | 15.9 | 34.4 | 17.3 |
| U07-200179 | 55.2 | 29 | 6.3 | 2.2 | 38 | 2.1 | 13.6 | 33.6 | 17.4 |
| U07-200211 | 66.1 | 7 | 4.2 | 1.6 | 37 | 1.6 | 16.7 | 34.3 | 17.4 |
| U07-200215 | 58.6 | 26 | 4.3 | 1.5 | 35 | 2.0 | 14.6 | 34.3 | 17.4 |
| U07-200239 | 61.7 | 19 | 4.9 | 1.5 | 36 | 1.6 | 16.9 | 34.2 | 18.1 |
| U07-226071 | 61.1 | 20 | 0.1 | 1.6 | 36 | 2.4 | 17.9 | 35.0 | 18.0 |
| U07-227102 | 55.1 | 30 | 0.8 | 2.4 | 40 | 1.9 | 15.9 | 33.9 | 18.7 |
| U07-230086 | 60.5 | 23 | 6.4 | 2.6 | 43 | 1.8 | 15.3 | 34.7 | 17.9 |
| U07-336226 | 62.6 | 16 | 9.4 | 2.5 | 44 | 1.2 | 15.0 | 35.6 | 17.3 |
| U07-342232 | 60.5 | 22 | 9.4 | 2.0 | 39 | 1.9 | 15.4 | 34.8 | 17.9 |
| U07-348232 | 63.0 | 15 | 1.1 | 1.3 | 36 | 1.5 | 17.4 | 35.5 | 17.6 |
| U07-402918 | 65.2 | 10 | 5.7 | 1.6 | 37 | 1.6 | 15.8 | 33.5 | 18.4 |
| U07-420241 | 62.2 | 18 | -0.1 | 1.9 | 35 | 1.8 | 16.6 | 33.5 | 18.2 |
| U08-831004 | 57.8 | 27 | 4.4 | 1.9 | 40 | 1.6 | 15.5 | 35.0 | 17.5 |

117.3 Days After Planting

PRELIMINARY TEST IIB, 2010

YIELD (bu/a)

| Strain | Mean 11 Tests | Ames IA | Urbana IL | Lafayette IN | Ingham County MI | Beermer NE |
|---------------|---------------------|------------|--------------|-----------------|------------------------|---------------|
| IA2094 (II) | 66.4 | 64.1 | 50.3 | 65.9 | 48.2 | 71.1 |
| IA1022 (SCN) | 64.8 | 56.5 | 36.2 | 67.8 | 50.1 | 70.0 |
| IA3024 | 72.2 | 59.5 | 56.5 | 67.6 | 57.3 | 78.2 |
| LG07-6843 | 59.6 | 51.5 | 60.8 | 56.6 | 40.2 | 55.4 |
| LG07-6848 | 60.8 | 52.9 | 61.2 | 57.2 | 39.7 | 55.6 |
| LG07-6950 | 66.8 | 57.8 | 64.1 | 65.1 | 51.9 | 69.8 |
| LG07-6953 | 66.3 | 56.0 | 61.3 | 69.6 | 53.3 | 65.0 |
| LG08-3838 | 67.7 | 56.0 | 63.5 | 67.8 | 52.0 | 64.7 |
| SD07CV-367 | 65.7 | 53.2 | 49.4 | 57.3 | 50.0 | 71.2 |
| SD07CV-603 | 68.1 | 52.8 | 55.2 | 56.2 | 50.7 | 78.0 |
| SD07CV-631 | 65.8 | 62.8 | 51.0 | 63.9 | 46.2 | 72.6 |
| SD07CV-770 | 64.5 | 57.6 | 47.8 | 63.9 | 47.5 | 74.6 |
| SD07CV-800 | 64.6 | 54.5 | 44.8 | 65.5 | 46.6 | 68.5 |
| SD07CV-874 | 55.9 | 46.7 | 34.1 | 47.7 | 47.0 | 54.7 |
| SD07CV-878 | 59.9 | 52.3 | 40.0 | 63.3 | 44.0 | 66.1 |
| SD07CV-886 | 62.4 | 53.6 | 44.4 | 58.8 | 46.9 | 68.6 |
| U07-200135 | 63.1 | 57.1 | 45.0 | 63.9 | 39.8 | 70.7 |
| U07-200179 | 55.2 | 44.6 | 48.0 | 47.8 | 36.8 | 61.0 |
| U07-200211 | 66.1 | 55.8 | 63.9 | 65.4 | 39.0 | 61.7 |
| U07-200215 | 58.6 | 43.5 | 34.3 | 45.0 | 48.1 | 63.6 |
| U07-200239 | 61.7 | 46.4 | 46.7 | 51.0 | 41.2 | 58.5 |
| U07-226071 | 61.1 | 45.3 | 43.9 | 53.4 | 45.1 | 67.6 |
| U07-227102 | 55.1 | 34.8 | 43.3 | 43.6 | 40.1 | 56.2 |
| U07-230086 | 60.5 | 50.9 | 47.1 | 51.6 | 46.0 | 60.3 |
| U07-336226 | 62.6 | 50.2 | 56.9 | 55.3 | 35.9 | 61.8 |
| U07-342232 | 60.5 | 52.6 | 51.6 | 42.7 | 42.3 | 57.8 |
| U07-348232 | 63.0 | 51.6 | 45.1 | 54.9 | 47.5 | 67.7 |
| U07-402918 | 65.2 | 57.3 | 58.0 | 56.8 | 36.3 | 67.8 |
| U07-420241 | 62.2 | 46.0 | 38.1 | 44.4 | 52.2 | 70.4 |
| U08-831004 | 57.8 | 44.4 | 52.0 | 54.6 | 39.3 | 53.5 |
| Location Mean | | 52.3 | 49.8 | 57.5 | 45.4 | 65.4 |
| C.V. (%) | | 6.1 | 5.4 | 8.8 | 12.2 | 7.1 |
| L.S.D. (5%) | | 8.4 | 5.5 | 10.4 | 9.4 | 11.5 |
| Row Sp. (In.) | | 30 | 30 | 30 | 15 | 30 |
| Rows/Plot | | 4 | 4 | 4 | 6 | 4 |
| Reps | | 2 | 2 | 2 | 2 | 2 |

*Data not included in mean.

PRELIMINARY TEST IIB, 2010

YIELD (bu/a)

| Strain | Cotesfield NE | Phillips NE | Hoytville OH | Chatham ONT | Harrow ONT | Aurora SD |
|---------------|------------------|----------------|-----------------|----------------|---------------|--------------|
| IA2094 (II) | 85.6 | 93.6 | 61.2 | 72.9 | 63.9 | 54.2 |
| IA1022 (SCN) | 77.5 | 86.3 | 59.3 | 87.4 | 67.7 | 53.7 |
| IA3024 | 103.2 | 100.9 | 62.5 | 86.5 | 66.3 | 55.8 |
| LG07-6843 | 79.2 | 86.7 | 59.0 | 64.4 | 62.5 | 39.1 |
| LG07-6848 | 90.4 | 75.9 | 57.9 | 71.3 | 62.7 | 44.1 |
| LG07-6950 | 85.3 | 96.7 | 62.7 | 70.7 | 62.6 | 48.0 |
| LG07-6953 | 91.3 | 89.6 | 59.4 | 74.4 | 63.7 | 46.0 |
| LG08-3838 | 89.2 | 82.9 | 63.9 | 84.7 | 72.5 | 47.1 |
| SD07CV-367 | 91.5 | 102.7 | 58.6 | 76.4 | 62.9 | 49.9 |
| SD07CV-603 | 96.9 | 102.0 | 62.8 | 75.0 | 68.4 | 51.0 |
| SD07CV-631 | 94.0 | 96.9 | 58.9 | 66.0 | 60.6 | 51.5 |
| SD07CV-770 | 77.1 | 102.1 | 53.6 | 69.2 | 66.9 | 49.3 |
| SD07CV-800 | 93.7 | 90.7 | 58.9 | 79.0 | 62.2 | 46.3 |
| SD07CV-874 | 76.4 | 74.6 | 43.2 | 73.2 | 67.0 | 50.0 |
| SD07CV-878 | 71.3 | 77.9 | 57.9 | 78.8 | 58.4 | 49.0 |
| SD07CV-886 | 93.9 | 85.6 | 56.4 | 72.8 | 59.1 | 46.6 |
| U07-200135 | 93.6 | 96.9 | 53.0 | 71.4 | 59.7 | 43.5 |
| U07-200179 | 78.9 | 75.8 | 47.4 | 72.4 | 57.4 | 37.1 |
| U07-200211 | 87.1 | 88.8 | 65.1 | 86.1 | 66.7 | 47.6 |
| U07-200215 | 81.7 | 83.6 | 53.3 | 80.6 | 62.6 | 48.5 |
| U07-200239 | 87.4 | 84.5 | 64.0 | 84.0 | 67.5 | 47.8 |
| U07-226071 | 86.9 | 82.6 | 59.1 | 80.2 | 62.8 | 45.6 |
| U07-227102 | 71.8 | 77.9 | 54.4 | 83.7 | 61.7 | 38.9 |
| U07-230086 | 88.4 | 83.3 | 55.2 | 74.9 | 63.6 | 44.2 |
| U07-336226 | 96.3 | 84.7 | 63.5 | 74.0 | 65.4 | 45.1 |
| U07-342232 | 84.8 | 83.9 | 61.7 | 79.4 | 58.8 | 49.9 |
| U07-348232 | 81.1 | 90.6 | 63.0 | 80.1 | 61.9 | 49.0 |
| U07-402918 | 93.8 | 92.3 | 62.9 | 81.5 | 61.7 | 49.0 |
| U07-420241 | 89.2 | 90.2 | 58.3 | 85.2 | 62.1 | 48.4 |
| U08-831004 | 81.3 | 78.0 | 57.6 | 81.1 | 56.6 | 37.3 |
| Location Mean | 86.6 | 87.9 | 58.5 | 77.2 | 63.2 | 47.1 |
| C.V. (%) | 5.9 | 4.4 | 7.0 | 6.3 | 3.8 | 6.2 |
| L.S.D. (5%) | 12.7 | 9.5 | 8.3 | 8.2 | 4.0 | 6.0 |
| Row Sp. (In.) | 30 | 30 | 7.5 | 17 | 18 | 30 |
| Rows/Plot | 4 | 4 | 8 | 5 | 5 | 4 |
| Reps | 2 | 2 | 2 | 2 | 2 | 2 |

PRELIMINARY TEST IIB, 2010

YIELD RANK

| Strain | Yield Rank | Ames IA | Urbana IL | Lafayette IN | Ingham County MI | Beermer NE |
|--------------|------------|---------|-----------|--------------|------------------|------------|
| IA2094 (II) | 5 | 1 | 14 | 5 | 9 | 6 |
| IA1022 (SCN) | 11 | 8 | 28 | 2 | 7 | 9 |
| IA3024 | 1 | 3 | 9 | 4 | 1 | 1 |
| LG07-6843 | 25 | 20 | 6 | 17 | 22 | 28 |
| LG07-6848 | 21 | 15 | 5 | 15 | 25 | 27 |
| LG07-6950 | 4 | 4 | 1 | 8 | 5 | 10 |
| LG07-6953 | 6 | 9 | 4 | 1 | 2 | 17 |
| LG08-3838 | 3 | 10 | 3 | 3 | 4 | 18 |
| SD07CV-367 | 9 | 14 | 15 | 14 | 8 | 5 |
| SD07CV-603 | 2 | 16 | 10 | 18 | 6 | 2 |
| SD07CV-631 | 8 | 2 | 13 | 9 | 16 | 4 |
| SD07CV-770 | 13 | 5 | 17 | 9 | 11 | 3 |
| SD07CV-800 | 12 | 12 | 22 | 6 | 15 | 12 |
| SD07CV-874 | 28 | 23 | 30 | 26 | 13 | 29 |
| SD07CV-878 | 24 | 18 | 26 | 12 | 19 | 16 |
| SD07CV-886 | 17 | 13 | 23 | 13 | 14 | 11 |
| U07-200135 | 14 | 7 | 21 | 9 | 24 | 7 |
| U07-200179 | 29 | 27 | 16 | 25 | 28 | 22 |
| U07-200211 | 7 | 11 | 2 | 7 | 27 | 21 |
| U07-200215 | 26 | 29 | 29 | 27 | 10 | 19 |
| U07-200239 | 19 | 24 | 19 | 24 | 21 | 24 |
| U07-226071 | 20 | 26 | 24 | 22 | 18 | 15 |
| U07-227102 | 30 | 30 | 25 | 29 | 23 | 26 |
| U07-230086 | 23 | 21 | 18 | 23 | 17 | 23 |
| U07-336226 | 16 | 22 | 8 | 19 | 30 | 20 |
| U07-342232 | 22 | 17 | 12 | 30 | 20 | 25 |
| U07-348232 | 15 | 19 | 20 | 20 | 12 | 14 |
| U07-402918 | 10 | 6 | 7 | 16 | 29 | 13 |
| U07-420241 | 18 | 25 | 27 | 28 | 3 | 8 |
| U08-831004 | 27 | 28 | 11 | 21 | 26 | 30 |

PRELIMINARY TEST IIB, 2010

YIELD RANK

| Strain | Cotesfield NE | Phillips NE | Hoytville OH | Chatham ONT | Harrow ONT | Aurora SD |
|--------------|------------------|----------------|-----------------|----------------|---------------|--------------|
| IA2094 (II) | 18 | 8 | 11 | 22 | 10 | 2 |
| IA1022 (SCN) | 26 | 16 | 13 | 1 | 3 | 3 |
| IA3024 | 1 | 4 | 9 | 2 | 8 | 1 |
| LG07-6843 | 24 | 15 | 15 | 30 | 18 | 27 |
| LG07-6848 | 11 | 28 | 19 | 26 | 15 | 25 |
| LG07-6950 | 19 | 7 | 8 | 27 | 17 | 15 |
| LG07-6953 | 10 | 13 | 12 | 19 | 11 | 21 |
| LG08-3838 | 12 | 23 | 3 | 5 | 1 | 18 |
| SD07CV-367 | 9 | 1 | 18 | 16 | 13 | 8 |
| SD07CV-603 | 2 | 3 | 7 | 17 | 2 | 5 |
| SD07CV-631 | 4 | 5 | 16 | 29 | 24 | 4 |
| SD07CV-770 | 27 | 2 | 26 | 28 | 6 | 9 |
| SD07CV-800 | 7 | 10 | 16 | 14 | 19 | 20 |
| SD07CV-874 | 28 | 30 | 30 | 21 | 5 | 6 |
| SD07CV-878 | 30 | 26 | 21 | 15 | 28 | 10 |
| SD07CV-886 | 5 | 17 | 23 | 23 | 26 | 19 |
| U07-200135 | 8 | 5 | 28 | 25 | 25 | 26 |
| U07-200179 | 25 | 29 | 29 | 24 | 29 | 30 |
| U07-200211 | 16 | 14 | 1 | 3 | 7 | 17 |
| U07-200215 | 21 | 21 | 27 | 10 | 16 | 13 |
| U07-200239 | 15 | 19 | 2 | 6 | 4 | 16 |
| U07-226071 | 17 | 24 | 14 | 11 | 14 | 22 |
| U07-227102 | 29 | 26 | 25 | 7 | 23 | 28 |
| U07-230086 | 14 | 22 | 24 | 18 | 12 | 24 |
| U07-336226 | 3 | 18 | 4 | 20 | 9 | 23 |
| U07-342232 | 20 | 20 | 10 | 13 | 27 | 7 |
| U07-348232 | 23 | 11 | 5 | 12 | 21 | 12 |
| U07-402918 | 6 | 9 | 6 | 8 | 22 | 11 |
| U07-420241 | 12 | 12 | 19 | 4 | 20 | 14 |
| U08-831004 | 22 | 25 | 22 | 9 | 30 | 29 |

PRELIMINARY TEST IIB, 2010

MATURITY (date)

| Strain | Mean 9 Tests | Ames IA | Urbana IL | Lafayette IN | Ingham County MI | Beermer NE |
|----------------|--------------------|------------|--------------|-----------------|------------------------|---------------|
| IA2094 (II) | 9/16 | 9/15 | 9/2 | 9/10 | | 9/16 |
| IA1022 (SCN) | -5.7 | -6 | -5 | -5 | | -7 |
| IA3024 | 7.3 | 10 | 9 | 8 | | 8 |
| LG07-6843 | 7.0 | 12 | 10 | 8 | | 4 |
| LG07-6848 | 5.8 | 12 | 8 | 8 | | 7 |
| LG07-6950 | 6.7 | 10 | 9 | 7 | | 8 |
| LG07-6953 | 6.2 | 10 | 9 | 7 | | 7 |
| LG08-3838 | 5.4 | 8 | 7 | 7 | | 5 |
| SD07CV-367 | -0.1 | 0 | 1 | 0 | | -1 |
| SD07CV-603 | 2.2 | 3 | 1 | 0 | | 3 |
| SD07CV-631 | 3.4 | 10 | 2 | 5 | | 7 |
| SD07CV-770 | -2.8 | -3 | -1 | -1 | | -4 |
| SD07CV-800 | -2.4 | -3 | -3 | 0 | | -3 |
| SD07CV-874 | -1.2 | -2 | -2 | -1 | | -4 |
| SD07CV-878 | -3.3 | -3 | -6 | -1 | | -6 |
| SD07CV-886 | -0.9 | 3 | -1 | -1 | | 1 |
| U07-200135 | 0.0 | 1 | 0 | 0 | | 4 |
| U07-200179 | 6.3 | 6 | 6 | 5 | | 4 |
| U07-200211 | 4.2 | 7 | 8 | 4 | | 2 |
| U07-200215 | 4.3 | 6 | 3 | 2 | | 3 |
| U07-200239 | 4.9 | 3 | 6 | 4 | | 1 |
| U07-226071 | 0.1 | 3 | -3 | 0 | | -3 |
| U07-227102 | 0.8 | 3 | -2 | 0 | | -2 |
| U07-230086 | 6.4 | 15 | 7 | 3 | | 7 |
| U07-336226 | 9.4 | 17 | 8 | 7 | | 9 |
| U07-342232 | 9.4 | 17 | 10 | 8 | | 6 |
| U07-348232 | 1.1 | -1 | 3 | 0 | | -2 |
| U07-402918 | 5.7 | 10 | 5 | 4 | | 3 |
| U07-420241 | -0.1 | 1 | -3 | 3 | | -4 |
| U08-831004 | 4.4 | 6 | 6 | 3 | | 0 |
| Date Planted | 5/21 | 5/4 | 5/10 | 5/26 | 5/30 | 5/17 |
| Days to Mature | 117 | 134 | 115 | 107 | | 122 |

PRELIMINARY TEST IIB, 2010

MATURITY (date)

| Strain | Cotesfield NE | Phillips NE | Hoytville OH | Chatham ONT | Harrow ONT | Aurora SD |
|----------------|------------------|----------------|-----------------|----------------|---------------|--------------|
| IA2094 (II) | | 9/15 | 9/16 | 9/18 | 9/25 | 9/28 |
| IA1022 (SCN) | | -5 | -7 | -4 | -9 | -4 |
| IA3024 | | 7 | 3 | 5 | 8 | 9 |
| LG07-6843 | | 6 | 3 | 1 | 8 | 12 |
| LG07-6848 | | 4 | 2 | 4 | 8 | 0 |
| LG07-6950 | | 6 | 5 | 4 | 9 | 2 |
| LG07-6953 | | 6 | 4 | 3 | 8 | 2 |
| LG08-3838 | | 6 | 5 | 5 | 6 | 0 |
| SD07CV-367 | | 1 | -3 | -1 | 2 | 0 |
| SD07CV-603 | | 5 | -2 | 2 | 4 | 3 |
| SD07CV-631 | | 5 | -2 | -3 | 5 | 2 |
| SD07CV-770 | | -2 | -4 | -5 | -2 | -4 |
| SD07CV-800 | | -3 | -5 | -3 | -2 | 0 |
| SD07CV-874 | | -2 | -3 | -1 | 2 | 2 |
| SD07CV-878 | | -4 | -3 | -3 | -4 | 0 |
| SD07CV-886 | | -1 | -4 | -3 | -4 | 2 |
| U07-200135 | | 4 | -1 | -5 | -3 | 0 |
| U07-200179 | | 6 | 3 | 5 | 10 | 12 |
| U07-200211 | | 0 | 4 | 5 | 7 | 2 |
| U07-200215 | | 2 | 2 | 4 | 8 | 9 |
| U07-200239 | | 7 | 3 | 6 | 6 | 9 |
| U07-226071 | | 1 | -1 | -2 | 0 | 6 |
| U07-227102 | | 1 | -3 | 3 | 5 | 2 |
| U07-230086 | | 9 | 2 | 6 | 6 | 3 |
| U07-336226 | | 12 | 6 | 7 | 7 | 12 |
| U07-342232 | | 12 | 5 | 8 | 7 | 12 |
| U07-348232 | | -1 | 4 | -2 | 3 | 6 |
| U07-402918 | | 5 | 4 | 3 | 9 | 9 |
| U07-420241 | | 1 | -3 | -1 | 3 | 2 |
| U08-831004 | | 4 | 1 | 5 | 9 | 6 |
| Date Planted | 5/14 | 5/18 | 5/29 | 5/27 | 6/15 | 5/19 |
| Days to Mature | | 120 | 110 | 114 | 102 | 132 |

PRELIMINARY TEST IIB, 2010

LODGING (score)

| Strain | Mean 10 Tests | Ames IA | Urbana IL | Lafayette IN | Ingham County MI | Beermer NE |
|--------------|---------------------|------------|--------------|-----------------|------------------------|---------------|
| IA2094 (II) | 1.5 | 3.0 | 1.0 | 1.0 | 2.5 | 1.5 |
| IA1022 (SCN) | 1.6 | 3.0 | 1.0 | 1.3 | 1.5 | 1.5 |
| IA3024 | 1.3 | 2.5 | 1.0 | 1.0 | 2.0 | 1.0 |
| LG07-6843 | 1.4 | 3.0 | 1.3 | 1.0 | 3.0 | 1.0 |
| LG07-6848 | 2.1 | 4.0 | 1.5 | 1.3 | 4.0 | 1.5 |
| | | | | | | |
| LG07-6950 | 1.9 | 4.0 | 1.5 | 1.0 | 3.5 | 2.5 |
| LG07-6953 | 2.0 | 3.5 | 1.5 | 1.5 | 3.5 | 2.0 |
| LG08-3838 | 1.7 | 4.0 | 1.3 | 1.0 | 3.0 | 1.5 |
| SD07CV-367 | 1.7 | 4.0 | 1.0 | 1.0 | 3.0 | 1.0 |
| SD07CV-603 | 2.4 | 4.0 | 1.3 | 1.3 | 3.5 | 3.0 |
| | | | | | | |
| SD07CV-631 | 1.4 | 3.0 | 1.3 | 1.0 | 2.0 | 1.0 |
| SD07CV-770 | 1.3 | 2.0 | 1.5 | 1.0 | 1.5 | 1.0 |
| SD07CV-800 | 1.9 | 4.0 | 1.3 | 1.0 | 3.0 | 1.5 |
| SD07CV-874 | 1.7 | 3.5 | 1.0 | 1.3 | 3.0 | 1.0 |
| SD07CV-878 | 1.5 | 4.0 | 1.0 | 1.0 | 2.5 | 1.0 |
| | | | | | | |
| SD07CV-886 | 1.7 | 3.5 | 1.0 | 1.0 | 2.5 | 1.0 |
| U07-200135 | 1.2 | 2.5 | 1.0 | 1.0 | 1.5 | 1.0 |
| U07-200179 | 2.2 | 3.5 | 1.3 | 1.0 | 2.5 | 3.0 |
| U07-200211 | 1.6 | 2.0 | 1.0 | 1.0 | 3.0 | 1.5 |
| U07-200215 | 1.5 | 2.5 | 1.0 | 1.0 | 2.0 | 1.0 |
| | | | | | | |
| U07-200239 | 1.5 | 2.5 | 1.0 | 1.0 | 2.0 | 1.0 |
| U07-226071 | 1.6 | 3.0 | 1.0 | 1.0 | 2.0 | 1.5 |
| U07-227102 | 2.4 | 4.0 | 1.5 | 1.0 | 3.0 | 2.0 |
| U07-230086 | 2.6 | 3.0 | 1.5 | 2.0 | 3.5 | 4.0 |
| U07-336226 | 2.5 | 3.0 | 1.5 | 1.5 | 2.5 | 3.5 |
| | | | | | | |
| U07-342232 | 2.0 | 3.0 | 1.0 | 1.0 | 2.5 | 3.0 |
| U07-348232 | 1.3 | 3.0 | 1.0 | 1.0 | 2.0 | 1.0 |
| U07-402918 | 1.6 | 3.0 | 1.0 | 1.0 | 1.5 | 1.5 |
| U07-420241 | 1.9 | 3.0 | 1.0 | 1.0 | 2.5 | 2.5 |
| U08-831004 | 1.9 | 3.0 | 1.0 | 1.0 | 2.0 | 2.0 |

PRELIMINARY TEST IIB, 2010

LODGING (score)

| Strain | Cotesfield NE | Phillips NE | Hoytville OH | Chatham ONT | Harrow ONT | Aurora SD |
|--------------|------------------|----------------|-----------------|----------------|---------------|--------------|
| IA2094 (II) | | 1.0 | 1.0 | 1.5 | 1.0 | 1.0 |
| IA1022 (SCN) | | 2.0 | 1.0 | 1.5 | 1.0 | 2.0 |
| IA3024 | | 1.0 | 1.0 | 1.5 | 1.0 | 1.0 |
| LG07-6843 | | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| LG07-6848 | | 2.0 | 1.0 | 2.0 | 1.5 | 2.0 |
| LG07-6950 | | 1.0 | 1.0 | 2.0 | 1.0 | 1.0 |
| LG07-6953 | | 2.0 | 1.0 | 2.0 | 1.0 | 2.0 |
| LG08-3838 | | 1.5 | 1.0 | 1.5 | 1.5 | 1.0 |
| SD07CV-367 | | 2.0 | 1.0 | 1.0 | 1.0 | 2.0 |
| SD07CV-603 | | 2.0 | 1.0 | 3.0 | 1.0 | 4.0 |
| SD07CV-631 | | 1.0 | 1.0 | 1.5 | 1.0 | 1.0 |
| SD07CV-770 | | 1.0 | 1.0 | 2.0 | 1.0 | 1.0 |
| SD07CV-800 | | 1.5 | 1.0 | 1.5 | 1.0 | 3.0 |
| SD07CV-874 | | 1.5 | 1.0 | 2.0 | 1.0 | 2.0 |
| SD07CV-878 | | 1.0 | 1.0 | 1.5 | 1.0 | 1.0 |
| SD07CV-886 | | 1.5 | 1.0 | 1.0 | 1.0 | 3.0 |
| U07-200135 | | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| U07-200179 | | 3.0 | 1.0 | 2.0 | 2.0 | 3.0 |
| U07-200211 | | 1.0 | 1.0 | 2.0 | 1.5 | 2.0 |
| U07-200215 | | 1.5 | 1.0 | 1.0 | 1.0 | 3.0 |
| U07-200239 | | 2.0 | 1.0 | 1.0 | 1.0 | 2.0 |
| U07-226071 | | 2.0 | 1.0 | 1.5 | 1.0 | 2.0 |
| U07-227102 | | 3.0 | 1.0 | 3.0 | 2.0 | 3.0 |
| U07-230086 | | 3.0 | 1.0 | 3.0 | 2.0 | 3.0 |
| U07-336226 | | 3.0 | 1.0 | 2.5 | 2.0 | 4.0 |
| U07-342232 | | 1.5 | 1.0 | 2.5 | 1.0 | 3.0 |
| U07-348232 | | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| U07-402918 | | 2.0 | 1.0 | 1.5 | 1.0 | 2.0 |
| U07-420241 | | 3.0 | 1.0 | 2.5 | 1.0 | 1.0 |
| U08-831004 | | 3.0 | 1.0 | 1.5 | 1.0 | 3.0 |

PRELIMINARY TEST IIB, 2010

PLANT HEIGHT (inches)

| Strain | Mean 9 Tests | Ames IA | Urbana IL | Lafayette IN | Ingham County MI | Beermer NE |
|--------------|--------------------|------------|--------------|-----------------|------------------------|---------------|
| IA2094 (II) | 35 | 38 | 29 | 39 | 40 | |
| IA1022 (SCN) | 36 | 39 | 25 | 35 | 38 | |
| IA3024 | 37 | 40 | 31 | 37 | 39 | |
| LG07-6843 | 40 | 42 | 37 | 42 | 42 | |
| LG07-6848 | 41 | 43 | 37 | 43 | 44 | |
| | | | | | | |
| LG07-6950 | 41 | 48 | 37 | 44 | 45 | |
| LG07-6953 | 43 | 50 | 37 | 44 | 46 | |
| LG08-3838 | 41 | 43 | 35 | 42 | 43 | |
| SD07CV-367 | 40 | 49 | 29 | 42 | 44 | |
| SD07CV-603 | 37 | 37 | 31 | 37 | 41 | |
| | | | | | | |
| SD07CV-631 | 38 | 41 | 30 | 37 | 41 | |
| SD07CV-770 | 34 | 37 | 27 | 37 | 36 | |
| SD07CV-800 | 37 | 37 | 28 | 38 | 40 | |
| SD07CV-874 | 40 | 41 | 32 | 39 | 41 | |
| SD07CV-878 | 38 | 47 | 27 | 39 | 41 | |
| | | | | | | |
| SD07CV-886 | 39 | 42 | 29 | 38 | 42 | |
| U07-200135 | 36 | 46 | 25 | 39 | 37 | |
| U07-200179 | 38 | 36 | 31 | 36 | 42 | |
| U07-200211 | 37 | 32 | 29 | 36 | 41 | |
| U07-200215 | 35 | 31 | 27 | 31 | 39 | |
| | | | | | | |
| U07-200239 | 36 | 36 | 31 | 34 | 38 | |
| U07-226071 | 36 | 36 | 28 | 32 | 38 | |
| U07-227102 | 40 | 43 | 31 | 41 | 45 | |
| U07-230086 | 43 | 48 | 33 | 42 | 50 | |
| U07-336226 | 44 | 49 | 37 | 42 | 46 | |
| | | | | | | |
| U07-342232 | 39 | 43 | 30 | 38 | 40 | |
| U07-348232 | 36 | 39 | 29 | 36 | 38 | |
| U07-402918 | 37 | 33 | 30 | 34 | 39 | |
| U07-420241 | 35 | 37 | 25 | 34 | 41 | |
| U08-831004 | 40 | 39 | 34 | 37 | 46 | |

PRELIMINARY TEST IIB, 2010

PLANT HEIGHT (inches)

| Strain | Cotesfield NE | Phillips NE | Hoytville OH | Chatham ONT | Harrow ONT | Aurora SD |
|--------------|------------------|----------------|-----------------|----------------|---------------|--------------|
| IA2094 (II) | 33 | | 30 | 35 | 33 | 42 |
| IA1022 (SCN) | 37 | | 30 | 39 | 35 | 42 |
| IA3024 | 35 | | 32 | 40 | 35 | 45 |
| LG07-6843 | 41 | | 37 | 36 | 36 | 46 |
| LG07-6848 | 41 | | 33 | 41 | 38 | 47 |
| | | | | | | |
| LG07-6950 | 41 | | 34 | 40 | 35 | 45 |
| LG07-6953 | 42 | | 38 | 42 | 39 | 47 |
| LG08-3838 | 41 | | 33 | 45 | 40 | 45 |
| SD07CV-367 | 41 | | 31 | 41 | 38 | 49 |
| SD07CV-603 | 33 | | 31 | 41 | 37 | 47 |
| | | | | | | |
| SD07CV-631 | 38 | | 34 | 38 | 39 | 42 |
| SD07CV-770 | 34 | | 28 | 37 | 33 | 35 |
| SD07CV-800 | 31 | | 31 | 41 | 38 | 52 |
| SD07CV-874 | 43 | | 32 | 41 | 40 | 48 |
| SD07CV-878 | 39 | | 31 | 41 | 37 | 42 |
| | | | | | | |
| SD07CV-886 | 43 | | 33 | 37 | 38 | 49 |
| U07-200135 | 36 | | 29 | 38 | 35 | 42 |
| U07-200179 | 34 | | 36 | 39 | 44 | 45 |
| U07-200211 | 33 | | 37 | 38 | 41 | 43 |
| U07-200215 | 33 | | 30 | 40 | 38 | 43 |
| | | | | | | |
| U07-200239 | 32 | | 29 | 36 | 44 | 42 |
| U07-226071 | 32 | | 30 | 43 | 38 | 46 |
| U07-227102 | 37 | | 36 | 37 | 46 | 43 |
| U07-230086 | 43 | | 36 | 35 | 45 | 51 |
| U07-336226 | 40 | | 40 | 42 | 44 | 52 |
| | | | | | | |
| U07-342232 | 39 | | 34 | 39 | 40 | 52 |
| U07-348232 | 36 | | 29 | 41 | 37 | 38 |
| U07-402918 | 33 | | 34 | 43 | 40 | 44 |
| U07-420241 | 33 | | 31 | 31 | 40 | 40 |
| U08-831004 | 32 | | 36 | 42 | 46 | 47 |

PRELIMINARY TEST IIB, 2010

SEED QUALITY (score)

| Strain | Mean 8 Tests | Ames IA | Urbana IL | Lafayette IN | Ingham County MI | Beermer NE |
|--------------|--------------------|------------|--------------|-----------------|------------------------|---------------|
| IA2094 (II) | 1.6 | 3.0 | 1.0 | 1.0 | | |
| IA1022 (SCN) | 1.7 | 2.0 | 2.0 | 1.0 | | |
| IA3024 | 1.6 | 2.0 | 2.0 | 1.5 | | |
| LG07-6843 | 1.4 | 2.0 | 1.0 | 1.0 | | |
| LG07-6848 | 1.4 | 2.0 | 1.0 | 1.0 | | |
| | | | | | | |
| LG07-6950 | 1.4 | 2.0 | 1.0 | 1.0 | | |
| LG07-6953 | 1.4 | 2.0 | 1.0 | 1.0 | | |
| LG08-3838 | 1.4 | 2.0 | 1.0 | 1.5 | | |
| SD07CV-367 | 1.7 | 2.0 | 2.0 | 1.0 | | |
| SD07CV-603 | 1.6 | 2.0 | 2.0 | 1.0 | | |
| | | | | | | |
| SD07CV-631 | 1.7 | 2.0 | 2.0 | 1.0 | | |
| SD07CV-770 | 1.7 | 4.0 | 1.0 | 1.0 | | |
| SD07CV-800 | 1.5 | 2.0 | 2.0 | 1.0 | | |
| SD07CV-874 | 1.7 | 4.0 | 1.0 | 1.5 | | |
| SD07CV-878 | 2.1 | 4.0 | 2.0 | 1.5 | | |
| | | | | | | |
| SD07CV-886 | 1.7 | 2.0 | 2.0 | 1.0 | | |
| U07-200135 | 1.4 | 2.0 | 1.0 | 1.0 | | |
| U07-200179 | 2.1 | 2.0 | 3.0 | 1.5 | | |
| U07-200211 | 1.6 | 2.0 | 1.0 | 1.0 | | |
| U07-200215 | 2.0 | 2.0 | 3.0 | 1.5 | | |
| | | | | | | |
| U07-200239 | 1.6 | 1.0 | 3.0 | 2.0 | | |
| U07-226071 | 2.4 | 3.0 | 4.0 | 2.0 | | |
| U07-227102 | 1.9 | 2.0 | 4.0 | 1.0 | | |
| U07-230086 | 1.8 | 2.0 | 2.0 | 1.0 | | |
| U07-336226 | 1.2 | 1.0 | 1.0 | 1.0 | | |
| | | | | | | |
| U07-342232 | 1.9 | 2.0 | 2.0 | 2.0 | | |
| U07-348232 | 1.5 | 2.0 | 2.0 | 1.0 | | |
| U07-402918 | 1.6 | 2.0 | 2.0 | 1.0 | | |
| U07-420241 | 1.8 | 3.0 | 2.0 | 2.0 | | |
| U08-831004 | 1.6 | 2.0 | 3.0 | 1.0 | | |

PRELIMINARY TEST IIB, 2010

SEED QUALITY (score)

| Strain | Cotesfield NE | Phillips NE | Hoytville OH | Chatham ONT | Harrow ONT | Aurora SD |
|--------------|------------------|----------------|-----------------|----------------|---------------|--------------|
| IA2094 (II) | | 2.0 | 1.0 | 1.5 | 1.0 | 2.0 |
| IA1022 (SCN) | | 2.0 | 1.0 | 1.5 | 1.0 | 3.0 |
| IA3024 | | 2.0 | 1.0 | 1.0 | 1.0 | 2.0 |
| LG07-6843 | | 2.0 | 1.0 | 1.0 | 1.0 | 2.0 |
| LG07-6848 | | 2.0 | 1.0 | 1.0 | 1.0 | 2.0 |
| | | | | | | |
| LG07-6950 | | 2.0 | 1.0 | 1.5 | 1.0 | 2.0 |
| LG07-6953 | | 2.0 | 1.0 | 1.0 | 1.0 | 2.0 |
| LG08-3838 | | 2.0 | 1.5 | 1.5 | 1.0 | 1.0 |
| SD07CV-367 | | 2.0 | 1.0 | 1.5 | 1.0 | 3.0 |
| SD07CV-603 | | 2.0 | 1.0 | 2.0 | 1.0 | 2.0 |
| | | | | | | |
| SD07CV-631 | | 2.0 | 1.0 | 1.5 | 1.0 | 3.0 |
| SD07CV-770 | | 2.0 | 1.0 | 1.5 | 1.0 | 2.0 |
| SD07CV-800 | | 2.0 | 1.0 | 1.0 | 1.0 | 2.0 |
| SD07CV-874 | | 2.0 | 1.0 | 1.0 | 1.0 | 2.0 |
| SD07CV-878 | | 2.0 | 1.5 | 1.5 | 1.0 | 3.0 |
| | | | | | | |
| SD07CV-886 | | 2.0 | 1.0 | 1.5 | 1.0 | 3.0 |
| U07-200135 | | 2.0 | 1.0 | 1.0 | 1.0 | 2.0 |
| U07-200179 | | 2.0 | 2.0 | 2.0 | 1.0 | 3.0 |
| U07-200211 | | 2.0 | 1.0 | 1.5 | 1.0 | 3.0 |
| U07-200215 | | 2.0 | 2.0 | 1.5 | 1.0 | 3.0 |
| | | | | | | |
| U07-200239 | | 2.0 | 1.5 | 1.5 | 1.0 | 1.0 |
| U07-226071 | | 3.0 | 2.5 | 1.5 | 1.0 | 2.0 |
| U07-227102 | | 2.0 | 2.0 | 1.5 | 1.0 | 2.0 |
| U07-230086 | | 2.0 | 1.5 | 1.5 | 1.0 | 3.0 |
| U07-336226 | | 2.0 | 1.0 | 1.5 | 1.0 | 1.0 |
| | | | | | | |
| U07-342232 | | 3.0 | 1.5 | 2.0 | 1.0 | 2.0 |
| U07-348232 | | 2.0 | 1.0 | 1.0 | 1.0 | 2.0 |
| U07-402918 | | 2.0 | 1.0 | 2.0 | 1.0 | 2.0 |
| U07-420241 | | 2.0 | 1.0 | 1.5 | 1.0 | 2.0 |
| U08-831004 | | 2.0 | 1.0 | 1.0 | 1.0 | 2.0 |

PRELIMINARY TEST IIB, 2010

SEED SIZE g/100

| Strain | Mean 11 Tests | Ames IA | Urbana IL | Lafayette IN | Ingham County MI | Beermer NE |
|--------------|---------------------|------------|--------------|-----------------|------------------------|---------------|
| IA2094 (II) | 15.0 | 16.8 | 12.0 | 15.0 | 16.2 | 15.2 |
| IA1022 (SCN) | 13.9 | 8.3 | 12.6 | 15.1 | 14.2 | 13.5 |
| IA3024 | 15.5 | 16.4 | 13.3 | 14.8 | 16.2 | 15.1 |
| LG07-6843 | 14.6 | 15.6 | 13.3 | 13.9 | 16.7 | 13.2 |
| LG07-6848 | 14.9 | 15.6 | 12.3 | 13.3 | 16.2 | 14.5 |
| LG07-6950 | 14.3 | 14.7 | 12.7 | 13.7 | 15.4 | 14.8 |
| LG07-6953 | 14.7 | 14.6 | 12.4 | 13.6 | 16.9 | 13.6 |
| LG08-3838 | 14.8 | 14.9 | 12.8 | 14.3 | 17.1 | 14.4 |
| SD07CV-367 | 17.6 | 18.8 | 15.1 | 17.2 | 18.8 | 17.2 |
| SD07CV-603 | 14.3 | 15.5 | 12.8 | 13.5 | 14.9 | 14.3 |
| SD07CV-631 | 15.6 | 17.0 | 14.0 | 15.6 | 15.6 | |
| SD07CV-770 | 15.0 | 16.3 | 12.0 | 14.0 | 16.4 | 14.5 |
| SD07CV-800 | 15.1 | 16.0 | 13.3 | 15.1 | 17.2 | 12.9 |
| SD07CV-874 | 12.7 | 12.8 | 9.6 | 11.7 | 14.4 | 11.0 |
| SD07CV-878 | 13.8 | 14.7 | 11.9 | 14.4 | 14.3 | 12.7 |
| SD07CV-886 | 13.3 | 13.6 | 11.1 | 13.7 | 14.0 | 12.8 |
| U07-200135 | 15.9 | 15.8 | 13.4 | 15.9 | 15.6 | 15.3 |
| U07-200179 | 13.6 | 12.7 | 11.2 | 12.1 | 13.9 | 13.6 |
| U07-200211 | 16.7 | 18.6 | 14.7 | 15.8 | 16.7 | 15.6 |
| U07-200215 | 14.6 | 13.9 | 11.5 | 12.4 | 16.3 | 14.3 |
| U07-200239 | 16.9 | 17.8 | 14.0 | 15.9 | 17.8 | 16.4 |
| U07-226071 | 17.9 | 19.3 | 13.9 | 18.6 | 18.3 | 17.6 |
| U07-227102 | 15.9 | 15.4 | 13.7 | 15.0 | 17.4 | 13.7 |
| U07-230086 | 15.3 | 16.1 | 11.8 | 14.8 | 16.3 | 13.8 |
| U07-336226 | 15.0 | 15.2 | 12.8 | 12.8 | 15.7 | 14.4 |
| U07-342232 | 15.4 | 15.6 | 13.0 | 14.2 | 16.0 | 13.7 |
| U07-348232 | 17.4 | 17.4 | 15.6 | 16.4 | 18.2 | 15.5 |
| U07-402918 | 15.8 | 16.6 | 14.3 | 14.6 | 15.4 | 15.7 |
| U07-420241 | 16.6 | 17.4 | 13.1 | 15.5 | 18.2 | 16.4 |
| U08-831004 | 15.5 | 14.7 | 13.2 | 14.7 | 17.3 | 13.7 |

PRELIMINARY TEST IIB, 2010

SEED SIZE g/100

| Strain | Cotesfield NE | Phillips NE | Hoytville OH | Chatham ONT | Harrow ONT | Aurora SD |
|--------------|------------------|----------------|-----------------|----------------|---------------|--------------|
| IA2094 (II) | 16.6 | 17.0 | 13.7 | 14.3 | 13.1 | 15.2 |
| IA1022 (SCN) | 16.0 | 17.1 | 13.4 | 15.1 | 13.3 | 14.2 |
| IA3024 | 17.8 | 17.3 | 13.1 | 15.4 | 14.8 | 15.9 |
| LG07-6843 | 15.8 | 14.6 | 13.1 | 14.5 | 15.0 | 15.5 |
| LG07-6848 | 16.9 | 15.2 | 13.3 | 16.0 | 15.0 | 15.1 |
| LG07-6950 | 16.8 | 16.5 | 13.1 | 13.7 | 13.2 | 13.2 |
| LG07-6953 | 17.0 | 16.1 | 13.8 | 14.7 | 14.4 | 14.6 |
| LG08-3838 | 15.2 | 13.9 | 14.1 | 15.6 | 15.3 | 15.4 |
| SD07CV-367 | 18.9 | 21.5 | 15.9 | 17.8 | 15.2 | 16.9 |
| SD07CV-603 | 16.2 | 16.2 | 13.2 | 13.7 | 13.5 | 14.0 |
| SD07CV-631 | 19.1 | 17.7 | 13.6 | 14.7 | 13.5 | 15.0 |
| SD07CV-770 | 17.1 | 17.2 | 13.5 | 15.0 | 13.6 | 15.3 |
| SD07CV-800 | 16.7 | 17.4 | 14.1 | 15.1 | 13.9 | 14.8 |
| SD07CV-874 | 14.6 | 14.2 | 11.3 | 13.7 | 13.2 | 13.4 |
| SD07CV-878 | 14.9 | 14.9 | 13.1 | 14.6 | 12.6 | 13.9 |
| SD07CV-886 | 16.2 | 14.0 | 12.3 | 13.7 | 11.7 | 13.7 |
| U07-200135 | 18.2 | 19.3 | 15.6 | 15.5 | 16.0 | 14.2 |
| U07-200179 | 16.3 | 15.5 | 10.6 | 16.9 | 13.6 | 13.0 |
| U07-200211 | 18.5 | 18.0 | 15.5 | 17.7 | 16.6 | 16.4 |
| U07-200215 | 16.2 | 16.5 | 13.0 | 16.4 | 14.7 | 15.5 |
| U07-200239 | 19.1 | 18.5 | 14.5 | 17.1 | 16.9 | 17.5 |
| U07-226071 | 20.5 | 18.8 | 17.2 | 19.3 | 16.6 | 17.0 |
| U07-227102 | 19.0 | 15.3 | 14.4 | 18.8 | 16.6 | 15.6 |
| U07-230086 | 18.3 | 16.9 | 13.2 | 15.9 | 15.8 | 15.6 |
| U07-336226 | 18.3 | 16.4 | 13.9 | 15.2 | 15.5 | 15.4 |
| U07-342232 | 17.7 | 17.1 | 14.3 | 16.8 | 15.7 | 15.2 |
| U07-348232 | 19.8 | 18.5 | 17.3 | 19.9 | 16.2 | 16.4 |
| U07-402918 | 17.9 | 17.3 | 14.9 | 16.3 | 14.9 | 16.2 |
| U07-420241 | 18.9 | 19.8 | 14.8 | 17.8 | 15.2 | 15.7 |
| U08-831004 | 17.9 | 16.6 | 14.0 | 16.6 | 15.6 | 15.9 |

PRELIMINARY TEST IIB, 2010

PROTEIN (%)

| Strain | Mean 9 Tests | Ames IA | Urbana IL | Lafayette IN | Ingham County MI | Phillips NE | Hoytville OH | Chatham ONT | Harrow ONT | Aurora SD |
|--------------|--------------------|------------|--------------|-----------------|------------------------|----------------|-----------------|----------------|---------------|--------------|
| IA2094 (II) | 35.1 | 36.2 | 33.3 | 35.2 | 35.2 | 35.5 | 33.7 | 36.2 | 35.8 | 34.8 |
| IA1022 (SCN) | 33.6 | 34.5 | 34.1 | 33.6 | 33.1 | 33.7 | 32.0 | 34.5 | 33.9 | 33.1 |
| IA3024 | 32.7 | 33.8 | 31.4 | 32.8 | 32.5 | 32.5 | 30.3 | 33.6 | 34.1 | 33.1 |
| LG07-6843 | 35.1 | 35.7 | 33.7 | 35.2 | 36.3 | 35.4 | 33.2 | 36.0 | 36.4 | 34.2 |
| LG07-6848 | 35.2 | 35.6 | 34.6 | 35.7 | 36.2 | 35.2 | 33.8 | 35.6 | 35.9 | 34.2 |
| LG07-6950 | 33.6 | 33.7 | 33.1 | 33.5 | 33.9 | 33.5 | 32.4 | 34.2 | 34.8 | 33.5 |
| LG07-6953 | 34.5 | 35.4 | 33.7 | 34.5 | 35.0 | 35.5 | 33.1 | 34.4 | 34.9 | 34.4 |
| LG08-3838 | 34.7 | 35.7 | 33.6 | 36.1 | 35.5 | 34.7 | 32.3 | 33.9 | 35.9 | 34.8 |
| SD07CV-367 | 34.6 | 36.0 | 32.7 | 35.7 | 34.5 | 35.1 | 32.4 | 34.9 | 35.2 | 34.7 |
| SD07CV-603 | 35.5 | 36.5 | 34.3 | 35.9 | 35.7 | 35.5 | 32.9 | 37.5 | 36.0 | 35.0 |
| SD07CV-631 | 36.5 | 36.7 | 36.1 | 36.3 | 36.6 | 36.5 | 34.7 | 37.8 | 38.5 | 35.2 |
| SD07CV-770 | 35.0 | 35.5 | 33.0 | 35.8 | 35.3 | 34.2 | 32.7 | 36.1 | 37.4 | 35.3 |
| SD07CV-800 | 35.0 | 35.1 | 33.5 | 35.6 | 35.5 | 35.1 | 33.8 | 34.6 | 36.4 | 35.0 |
| SD07CV-874 | 34.8 | 35.1 | 34.1 | 35.1 | 34.5 | 34.5 | 33.1 | 35.4 | 36.2 | 35.1 |
| SD07CV-878 | 34.4 | 35.2 | 33.3 | 34.7 | 35.4 | 33.2 | 32.8 | 34.6 | 36.0 | 34.1 |
| SD07CV-886 | 35.4 | 35.4 | 33.8 | 35.8 | 36.1 | 34.2 | 34.2 | 37.0 | 37.8 | 34.3 |
| U07-200135 | 34.4 | 35.2 | 32.9 | 35.7 | 35.0 | 34.3 | 32.3 | 35.8 | 34.8 | 33.7 |
| U07-200179 | 33.6 | 34.9 | 33.0 | 34.8 | 33.2 | 34.1 | 31.8 | 33.8 | 33.9 | 32.9 |
| U07-200211 | 34.3 | 35.7 | 33.0 | 34.5 | 35.7 | 34.1 | 32.5 | 34.3 | 35.5 | 33.6 |
| U07-200215 | 34.3 | 35.2 | 34.1 | 34.3 | 34.1 | 36.3 | 32.2 | 33.8 | 34.2 | 34.5 |
| U07-200239 | 34.2 | 35.6 | 33.0 | 34.7 | 34.4 | 34.3 | 32.0 | 34.7 | 34.6 | 34.6 |
| U07-226071 | 35.0 | 35.9 | 33.9 | 35.2 | 35.8 | 35.3 | 32.3 | 35.3 | 36.1 | 34.9 |
| U07-227102 | 33.9 | 34.9 | 32.5 | 35.3 | 34.4 | 34.1 | 31.4 | 34.5 | 34.4 | 33.9 |
| U07-230086 | 34.7 | 36.5 | 33.8 | 35.9 | 34.5 | 34.0 | 33.2 | 35.0 | 35.4 | 34.3 |
| U07-336226 | 35.6 | 37.3 | 34.3 | 35.2 | 36.3 | 36.0 | 33.4 | 36.5 | 36.9 | 34.8 |
| U07-342232 | 34.8 | 35.5 | 33.7 | 34.5 | 35.3 | 35.8 | 32.3 | 35.4 | 36.0 | 35.0 |
| U07-348232 | 35.5 | 36.2 | 34.1 | 35.3 | 35.7 | 35.6 | 34.0 | 36.7 | 37.3 | 34.2 |
| U07-402918 | 33.5 | 34.1 | 32.9 | 33.4 | 34.5 | 33.0 | 31.2 | 33.8 | 35.5 | 33.0 |
| U07-420241 | 33.5 | 34.7 | 31.9 | 34.5 | 33.1 | 34.4 | 32.2 | 33.2 | 34.8 | 33.0 |
| U08-831004 | 35.0 | 35.3 | 35.0 | 35.3 | 34.4 | 36.3 | 32.6 | 35.0 | 35.8 | 35.0 |

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

PRELIMINARY TEST IIB, 2010

OIL (%)

| Strain | Mean 9 Tests | Ames IA | Urbana IL | Lafayette IN | Ingham County MI | Phillips NE | Hoytville OH | Chatham ONT | Harrow ONT | Aurora SD |
|--------------|--------------------|------------|--------------|-----------------|------------------------|----------------|-----------------|----------------|---------------|--------------|
| IA2094 (II) | 17.9 | 17.8 | 18.5 | 17.7 | 17.3 | 19.0 | 17.8 | 17.7 | 17.9 | 17.1 |
| IA1022 (SCN) | 19.4 | 18.4 | 19.7 | 19.3 | 19.6 | 19.7 | 19.5 | 20.6 | 19.6 | 18.0 |
| IA3024 | 18.7 | 19.0 | 19.4 | 18.5 | 17.9 | 19.3 | 19.2 | 19.1 | 18.7 | 17.6 |
| LG07-6843 | 17.9 | 18.1 | 18.4 | 17.9 | 17.2 | 19.1 | 18.2 | 17.7 | 17.6 | 16.6 |
| LG07-6848 | 17.7 | 18.0 | 17.7 | 16.9 | 16.6 | 18.2 | 17.5 | 19.1 | 18.3 | 16.9 |
| LG07-6950 | 18.1 | 18.8 | 18.7 | 17.4 | 17.5 | 18.5 | 18.0 | 18.8 | 18.4 | 17.2 |
| LG07-6953 | 18.3 | 18.1 | 18.7 | 17.6 | 17.5 | 18.8 | 18.8 | 19.0 | 18.5 | 17.6 |
| LG08-3838 | 18.2 | 18.2 | 18.6 | 17.9 | 18.1 | 18.2 | 18.5 | 19.4 | 17.9 | 17.4 |
| SD07CV-367 | 18.7 | 18.5 | 19.1 | 19.2 | 18.0 | 18.9 | 19.1 | 19.3 | 18.4 | 17.6 |
| SD07CV-603 | 17.7 | 18.0 | 18.0 | 17.5 | 17.3 | 18.2 | 18.2 | 17.4 | 17.5 | 17.0 |
| SD07CV-631 | 17.5 | 17.6 | 18.6 | 17.8 | 17.4 | 17.9 | 17.7 | 16.8 | 16.3 | 17.2 |
| SD07CV-770 | 18.2 | 18.4 | 18.7 | 17.9 | 18.2 | 18.7 | 18.8 | 18.5 | 17.1 | 17.7 |
| SD07CV-800 | 18.4 | 18.7 | 18.8 | 18.5 | 18.3 | 18.8 | 19.0 | 19.1 | 17.5 | 17.0 |
| SD07CV-874 | 17.3 | 17.6 | 17.3 | 16.6 | 17.4 | 17.4 | 17.2 | 18.1 | 17.5 | 17.0 |
| SD07CV-878 | 18.3 | 18.1 | 19.1 | 18.7 | 17.8 | 19.1 | 18.6 | 19.2 | 17.3 | 16.9 |
| SD07CV-886 | 17.2 | 18.2 | 18.0 | 16.7 | 17.6 | 17.7 | 17.2 | 17.2 | 16.2 | 16.0 |
| U07-200135 | 17.3 | 17.0 | 17.5 | 17.4 | 17.4 | 17.1 | 16.9 | 17.8 | 17.7 | 16.4 |
| U07-200179 | 17.4 | 17.4 | 17.8 | 16.5 | 17.1 | 17.5 | 17.2 | 18.4 | 17.9 | 16.6 |
| U07-200211 | 17.4 | 17.1 | 18.0 | 17.2 | 16.1 | 17.9 | 17.6 | 18.5 | 17.7 | 16.3 |
| U07-200215 | 17.4 | 17.2 | 17.0 | 16.8 | 17.4 | 18.6 | 17.2 | 17.8 | 17.4 | 16.8 |
| U07-200239 | 18.1 | 17.9 | 18.3 | 18.1 | 17.4 | 19.2 | 18.3 | 18.4 | 18.3 | 17.4 |
| U07-226071 | 18.0 | 17.9 | 18.1 | 18.3 | 17.5 | 17.6 | 17.8 | 19.4 | 18.2 | 17.2 |
| U07-227102 | 18.7 | 18.5 | 19.2 | 18.2 | 17.9 | 19.1 | 19.0 | 19.8 | 19.3 | 17.5 |
| U07-230086 | 17.9 | 17.2 | 18.1 | 16.8 | 18.0 | 18.5 | 18.2 | 18.8 | 18.4 | 17.2 |
| U07-336226 | 17.3 | 17.5 | 18.0 | 16.5 | 17.0 | 17.0 | 17.7 | 18.0 | 17.5 | 16.4 |
| U07-342232 | 17.9 | 17.9 | 18.7 | 17.6 | 17.4 | 17.3 | 18.6 | 18.6 | 18.0 | 17.3 |
| U07-348232 | 17.6 | 17.6 | 18.0 | 17.6 | 16.5 | 18.6 | 17.7 | 18.4 | 17.0 | 16.9 |
| U07-402918 | 18.4 | 18.8 | 19.0 | 18.7 | 17.1 | 19.1 | 18.7 | 19.0 | 17.1 | 17.7 |
| U07-420241 | 18.2 | 18.2 | 18.5 | 17.5 | 17.6 | 18.7 | 18.3 | 19.8 | 17.8 | 17.1 |
| U08-831004 | 17.5 | 17.5 | 17.6 | 17.2 | 17.0 | 18.4 | 17.3 | 18.5 | 17.4 | 16.9 |

Uniform Test III, 2010

| Ent. | Strain | Parentage | Seed Source | Previous Testing | Gen. Comp. | Unique Traits |
|------|--------------|---|-------------|------------------|------------|---------------|
| 1. | IA3023 (III) | Dairyland DSR-365 x Pioneer P9381 | Fehr | 9 | F5 | |
| 2. | IA3024 | A97-553017 x Pioneer YB33A99 | Fehr | 3 | | 1% linolenic |
| 3. | IA3048 (SCN) | Dairyland 99540 x IA2068 | Fehr | 2 | F4 | SCN |
| 4. | IA4004 | Dairyland 99433 x A01-409003 | Fehr | 3 | F4 | |
| 5. | IA4005 | IA3023 x IA3025 | Fehr | new | | 1% linolenic |
| 6. | A07-626010 | IA1021 x Dairyland 99820-33 | Fehr | 09UTII | F4 | |
| 7. | A08-248015 | IA1021 x Dairyland 99753 | Fehr | PTIIIA | F4 | |
| 8. | A08-248031 | A04-545015 x Syngenta WW228348 | Fehr | PTIIIA | F4 | |
| 9. | A08-249012 | U01-390489 x A04-545015 | Fehr | PTIIIA | F4 | |
| 10. | A08-350016 | A04-545045 x Dairyland 99640 | Fehr | PTIIIA | F4 | |
| 11. | A08-350020 | Dairyland 99807 x A04-444032 | Fehr | PTIIIA | F4 | |
| 12. | A08-350036 | A04-545045 x AgriPro 98180-A01-0613 | Fehr | PTIIIA | F4 | |
| 13. | A08-350042 | A04-545045 x Soygenetics F26135C | Fehr | PTIIIA | F4 | |
| 14. | A08-350049 | U01-390489 x A04-645031 | Fehr | PTIIIA | F4 | |
| 15. | AR06-264020 | Golden Harvest H-2285 X Garst-Agripro 97023-A99-03284 | Cianzio | 08 PTIIB | F3 | |
| 16. | AR07-376041 | Golden Harvest 24040 X Golden Harvest H-2285 | Cianzio | 08 PTIIB | F4 | |
| 17. | LG06-2340 | LG97-9301 x S25-J5 | Nelson | PTIIB | F6 | Diversity |
| 18. | LG06-2354 | LG97-9301 x S25-J5 | Nelson | PTIIB | F6 | Diversity |
| 19. | LG06-2866 | S32-Z3 x LG98-1605 | Nelson | PTIIB | F6 | Diversity |
| 20. | LG06-6094 | LG00-6313 x LD00-3309 | Nelson | PTIIB | F4 | Diversity |
| 21. | K07-1544 | IA3023 x LD00-3309 | Schapaugh | PTIIIA | F4 | |
| 22. | U05-226055 | U98-307917 x UP1C4-95-30 | Graef | 1 | F4 | |
| 23. | U06-100052 | CL0J173-6 x U98-307917 | Graef | PTIIIA | F5 | dt |
| 24. | U06-206737 | U01-290680 x NE3202 | Graef | PTIIIA | F4 | |

UNIFORM TEST III, 2010

DESCRIPTIVE AND DISEASE DATA

| Strain | Descriptive Code | <u>Chlorosis</u> | <u>Shattering</u> | <u>Green Stem</u> | <u>PR</u> | | <u>FE</u> | <u>SDS</u> |
|-------------------|------------------|-------------------------|--------------------------|------------------------------|------------------------|------------------------|------------------|----------------------|
| | | Score Humboldt IA | Score Manhattan KS | Score S. Charleston OH | Lafayette Race 4 | Lafayette Race 7 | Laf. a rx. | DX Valmeyer IL |
| IA3023 (III) | WLtTDYBII | 2.8 | 1.0 | 1.0 | S | S | S | 31 |
| IA3024 | PGTIYIbI | 2.9 | 3.0 | 1.7 | R* | R* | S | 49 |
| IA3048 (SCN) | PGTDYIbI | 3.1 | 2.0 | 1.3 | S | S | S | 8 |
| IA4004 | PTBDYYI | 2.9 | 2.0 | 1.0 | S | S | S | 31 |
| IA4005 | WLtTDYBI+BfI | 3.0 | 1.0 | 3.3 | H* | H* | S | 26 |
| A07-626010 | PGBDYYI | 2.9 | 2.0 | 1.0 | S | S | S | 14 |
| A08-248015 | PLtBDYY+BrI | 3.3 | 2.0 | 1.0 | S | S | S | 36 |
| A08-248031 | PTTDYYI | 3.8 | 2.0 | 1.0 | R* | S | S | 6 |
| A08-249012 | P+WT+GBDYYI | 3.0 | 4.0 | 1.0 | H* | S | S | 12 |
| A08-350016 | WGBDYYI | 2.6 | 3.0 | 1.3 | S | S | S | 15 |
| A08-350020 | PTBDYYI | 3.0 | 4.0 | 1.0 | S | S | S | 50 |
| A08-350036 | PGTDYYI | 2.8 | 4.0 | 1.3 | S | S | S | 22 |
| A08-350042 | WGBDYYI | 3.0 | 2.0 | 4.3 | R* | R* | S | 6 |
| A08-350049 | WGBDYYI | 3.1 | 3.0 | 2.7 | R* | R* | S | 36 |
| AR06-264020 | PGBDYDbfI | 2.9 | 4.0 | 1.0 | S | S | S | 39 |
| AR07-376041 | PGBDYBfI | 2.9 | 3.0 | 1.0 | R* | R* | S | 39 |
| LG06-2340 | WGBDYIbI | 2.6 | 2.0 | 1.7 | S | S | S | 25 |
| LG06-2354 | WGBDYIbI | 3.5 | 2.0 | 2.0 | S | S | S | 39 |
| LG06-2866 | WLtTDYBII | 3.1 | 2.0 | 2.7 | S | S | S | 13 |
| LG06-6094 | PTBDYBII | 3.1 | 2.0 | 1.7 | S | S | S | 6 |
| K07-1544 | P+WLtDYBII | 2.8 | 2.0 | 1.7 | S | S | S | 17 |
| U05-226055 | WTBDYBII | 3.1 | 3.0 | 1.0 | S | S | S | 36 |
| U06-100052 | WTBDYBID | 2.9 | 2.0 | 1.0 | H* | S | S | 23 |
| U06-206737 | PGBDYGfI | 2.6 | 2.0 | 1.0 | S | S | S | 53 |
| AR07-376031 (res) | | | | | | | | 1 |
| LS05-0220 (sus) | | | | | | | | 32 |
| LSD | | | | | | | | 20 |
| P<F | | | | | | | | <.0001 |

PR: * = *P. sojae* inoc. Reaction NOT compatible with breeder's information about *Rps* Trait

FE: S = susceptible, - = lesions not detected, x = no data

UNIFORM TEST III, 2010

REGIONAL SUMMARY

| No. of Tests Strain | Yield | Rank | Maturity | Lodging | Plant | Seed | Seed | Composition | |
|------------------------|------------|-----------|------------|-------------|---------------------|------------------------|---------------------|--------------------|----------------|
| | 18 bu/a | 18 No. | 17 Date | 17 Score | Height 16 In. | Quality 14 Score | Size 18 g/100 | Protein 11 % | Oil 11 % |
| IA3023 (III) | 59.6 | 2 | 9/21 | 1.4 | 33 | 1.6 | 13.6 | 32.9 | 18.8 |
| IA3024 | 55.1 | 11 | -2.8 | 1.4 | 33 | 1.6 | 14.1 | 31.9 | 18.9 |
| IA3048 (SCN) | 57.4 | 4 | 1.0 | 1.6 | 34 | 1.8 | 12.7 | 33.4 | 18.3 |
| IA4004 | 57.1 | 5 | 1.7 | 1.9 | 36 | 1.9 | 14.7 | 34.2 | 18.0 |
| IA4005 | 61.4 | 1 | 6.4 | 1.3 | 32 | 1.8 | 12.9 | 32.5 | 18.5 |
| A07-626010 | 51.7 | 19 | -2.9 | 1.6 | 33 | 2.2 | 14.3 | 33.7 | 18.1 |
| A08-248015 | 54.7 | 12 | -2.9 | 1.6 | 35 | 1.8 | 13.3 | 33.9 | 18.2 |
| A08-248031 | 51.6 | 20 | -2.0 | 1.5 | 32 | 1.8 | 11.7 | 35.4 | 17.3 |
| A08-249012 | 51.3 | 22 | -2.1 | 1.6 | 36 | 1.8 | 13.8 | 34.1 | 18.7 |
| A08-350016 | 51.0 | 23 | -0.2 | 1.4 | 34 | 1.9 | 14.5 | 34.2 | 18.4 |
| A08-350020 | 49.9 | 24 | -2.0 | 1.5 | 36 | 2.0 | 13.1 | 34.3 | 17.7 |
| A08-350036 | 57.0 | 6 | 2.4 | 1.8 | 38 | 1.7 | 14.2 | 34.1 | 17.9 |
| A08-350042 | 56.6 | 7 | 3.6 | 1.7 | 38 | 2.1 | 13.1 | 34.0 | 18.0 |
| A08-350049 | 53.6 | 16 | 0.7 | 1.7 | 41 | 2.1 | 16.5 | 34.5 | 18.5 |
| AR06-264020 | 51.6 | 20 | -2.5 | 1.4 | 32 | 2.6 | 15.5 | 33.5 | 18.4 |
| AR07-376041 | 52.4 | 18 | -2.9 | 1.4 | 33 | 1.8 | 11.7 | 33.0 | 18.3 |
| LG06-2340 | 53.9 | 14 | 2.4 | 1.5 | 34 | 1.8 | 13.8 | 33.8 | 18.4 |
| LG06-2354 | 56.3 | 9 | 2.6 | 1.4 | 33 | 1.6 | 14.9 | 34.2 | 18.3 |
| LG06-2866 | 54.3 | 13 | 2.9 | 2.1 | 36 | 1.9 | 11.5 | 32.5 | 18.1 |
| LG06-6094 | 53.6 | 16 | 3.3 | 1.9 | 38 | 1.6 | 11.1 | 32.8 | 17.1 |
| K07-1544 | 57.7 | 3 | 2.2 | 1.3 | 33 | 1.7 | 12.6 | 32.8 | 18.6 |
| U05-226055 | 53.9 | 14 | 3.0 | 1.6 | 35 | 1.8 | 13.2 | 33.8 | 18.0 |
| U06-100052 | 56.4 | 8 | -2.8 | 1.3 | 32 | 1.7 | 13.4 | 34.3 | 17.3 |
| U06-206737 | 55.9 | 10 | 3.0 | 2.1 | 36 | 1.6 | 15.0 | 34.3 | 18.4 |

122.0 Days After Planting

UNIFORM TEST III, 2010

2009-2010 2-YEAR MEAN

| No. of Tests Strain | Yield | Rank | Maturity | Lodging | Plant | Seed | Seed | Composition | |
|------------------------|------------|-----------|------------|-------------|---------------------|------------------------|---------------------|--------------------|----------------|
| | 36 bu/a | 36 No. | 34 Date | 33 Score | Height 32 In. | Quality 27 Score | Size 35 g/100 | Protein 24 % | Oil 24 % |
| IA3023 (III) | 59.4 | 3 | 9/21 | 1.5 | 31 | 1.7 | 15.2 | 33.1 | 18.6 |
| IA3024 | 57.0 | 5 | -2.6 | 1.4 | 31 | 1.8 | 15.8 | 32.1 | 18.8 |
| IA3048 (SCN) | 59.9 | 2 | 0.8 | 1.8 | 31 | 1.7 | 14.5 | 33.6 | 18.2 |
| IA4004 | 61.1 | 1 | 2.3 | 1.9 | 34 | 1.9 | 16.1 | 34.3 | 17.8 |
| U05-226055 | 59.4 | 3 | 3.5 | 1.6 | 33 | 1.8 | 14.9 | 33.7 | 18.0 |

125.3 Days After Planting

UNIFORM TEST III, 2010

YIELD (bu/a)

| Strain | Mean | Ames IA | Carlisle IA | Crawfordsville IA | Arthur IL | Urbana IL | Lafayette IN | Wanatah IN | Ashland KS | Ottawa KS |
|---------------|-------------|------------|----------------|----------------------|--------------|--------------|-----------------|---------------|---------------|--------------|
| | 18 Tests | | | | | | | | | |
| IA3023 (III) | 59.6 | 60.9 | 69.4 | 49.6 | 59.0 | 60.8 | 60.3 | 33.5 | 53.6 | 41.9 |
| IA3024 | 55.1 | 63.0 | 58.4 | 41.6 | 59.8 | 54.9 | 53.1 | 37.6 | 55.4 | 27.9 |
| IA3048 (SCN) | 57.4 | 61.8 | 58.3 | 48.1 | 58.9 | 59.8 | 72.5 | 42.4 | 51.9 | 40.4 |
| IA4004 | 57.1 | 55.4 | 59.1 | 51.7 | 57.7 | 56.0 | 70.5 | 34.7 | 49.9 | 39.2 |
| IA4005 | 61.4 | 64.0 | 68.2 | 54.9 | 64.6 | 52.8 | 65.8 | 40.5 | 60.1 | 44.4 |
| A07-626010 | 51.7 | 57.0 | 61.2 | 43.5 | 48.7 | 56.9 | 62.2 | 33.4 | 47.6 | 26.5 |
| A08-248015 | 54.7 | 59.8 | 65.2 | 42.0 | 59.4 | 55.3 | 61.6 | 39.3 | 52.2 | 27.7 |
| A08-248031 | 51.6 | 63.5 | 60.9 | 45.0 | 58.5 | 51.0 | 62.2 | 38.3 | 49.5 | 20.2 |
| A08-249012 | 51.3 | 57.9 | 56.9 | 41.9 | 60.9 | 50.8 | 55.8 | 36.3 | 45.4 | 24.2 |
| A08-350016 | 51.0 | 55.8 | 62.5 | 44.7 | 49.8 | 53.2 | 67.4 | 35.8 | 45.1 | 27.7 |
| A08-350020 | 49.9 | 59.3 | 64.6 | 42.5 | 40.5 | 45.1 | 51.6 | 33.7 | 48.6 | 16.2 |
| A08-350036 | 57.0 | 59.6 | 67.4 | 48.7 | 59.1 | 57.7 | 69.9 | 38.6 | 52.0 | 38.4 |
| A08-350042 | 56.6 | 59.1 | 62.8 | 49.8 | 58.7 | 58.7 | 69.7 | 37.4 | 54.6 | 43.4 |
| A08-350049 | 53.6 | 56.1 | 51.3 | 42.7 | 48.4 | 55.7 | 60.5 | 38.9 | 48.6 | 32.9 |
| AR06-264020 | 51.6 | 62.0 | 67.2 | 47.6 | 45.2 | 55.5 | 48.9 | 32.8 | 44.3 | 17.4 |
| AR07-376041 | 52.4 | 57.8 | 61.7 | 42.6 | 49.3 | 52.4 | 54.3 | 27.4 | 50.4 | 22.6 |
| LG06-2340 | 53.9 | 51.4 | 61.1 | 45.5 | 48.6 | 55.7 | 59.5 | 37.7 | 44.4 | 39.9 |
| LG06-2354 | 56.3 | 54.8 | 64.8 | 42.9 | 55.6 | 63.5 | 62.6 | 41.5 | 47.9 | 37.9 |
| LG06-2866 | 54.3 | 50.1 | 58.9 | 49.1 | 53.4 | 51.4 | 64.7 | 37.3 | 49.2 | 36.4 |
| LG06-6094 | 53.6 | 55.1 | 56.4 | 42.9 | 49.7 | 51.1 | 63.8 | 39.2 | 49.1 | 38.8 |
| K07-1544 | 57.7 | 61.4 | 69.5 | 58.4 | 53.1 | 55.9 | 67.2 | 36.6 | 54.6 | 38.3 |
| U05-226055 | 53.9 | 51.5 | 61.1 | 50.3 | 45.5 | 55.1 | 62.5 | 35.0 | 49.9 | 33.2 |
| U06-100052 | 56.4 | 56.4 | 61.3 | 52.6 | 61.2 | 55.0 | 67.4 | 44.5 | 48.0 | 23.2 |
| U06-206737 | 55.9 | 60.9 | 64.1 | 48.6 | 50.4 | 52.8 | 63.1 | 34.5 | 53.5 | 41.5 |
| Location Mean | | 58.1 | 62.2 | 47.0 | 54.0 | 54.9 | 62.4 | 37.0 | 50.2 | 32.5 |
| C.V. (%) | | 5.1 | 6.4 | 7.4 | 7.0 | 5.5 | 9.1 | 8.2 | 5.1 | 7.0 |
| L.S.D. (5%) | | 6.1 | 8.2 | 8.5 | 7.9 | 6.3 | 9.3 | 5.0 | 3.5 | 3.1 |
| Row Sp. (in.) | | 27 | 27 | 30 | 30 | 30 | 30 | 30 | 30 | 30 |
| Rows/Plot | | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Reps | | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 |

*Data not included in mean.

UNIFORM TEST III, 2010

YIELD (bu/a)

| Strain | YIELD (bu/a) | | | | | | | | | |
|---------------|-----------------|----------------|------------------------------|------------------------------|--------------|---------------|---------------------|-----------------|----------------|---------------------------|
| | Manhattan KS | Columbia MO | Portageville (Clay) MO | Portageville (Loam) MO | DeWitt NE | Lincoln NE | North Bend NE | Hoytville OH | Wooster* OH | South Charleston OH |
| IA3023 (III) | 54.1 | 55.8 | 54.8 | 44.3 | 87.3 | 89.8 | 68.3 | 64.5 | 31.1 | 65.6 |
| IA3024 | 52.1 | 56.1 | 49.0 | 44.2 | 87.6 | 81.3 | 55.8 | 61.0 | 36.1 | 53.9 |
| IA3048 (SCN) | 53.9 | 51.4 | 47.8 | 54.0 | 75.4 | 78.1 | 60.4 | 61.3 | 36.7 | 57.0 |
| IA4004 | 57.9 | 58.5 | 49.4 | 49.2 | 77.8 | 78.7 | 66.0 | 55.9 | 30.5 | 59.8 |
| IA4005 | 57.1 | 64.2 | 55.0 | 51.9 | 79.9 | 84.0 | 69.5 | 63.6 | 37.1 | 65.0 |
| A07-626010 | 43.5 | 43.9 | 24.4 | 53.8 | 81.5 | 73.1 | 61.8 | 54.9 | 41.6 | 56.8 |
| A08-248015 | 49.4 | 52.1 | 37.9 | 41.1 | 81.4 | 77.5 | 64.4 | 59.4 | 38.9 | 58.1 |
| A08-248031 | 41.1 | 45.8 | 37.3 | 42.6 | 70.2 | 67.6 | 65.1 | 58.7 | 32.5 | 51.9 |
| A08-249012 | 39.4 | 50.3 | 39.0 | 46.8 | 75.1 | 69.1 | 67.5 | 50.4 | 33.8 | 55.6 |
| A08-350016 | 46.1 | 48.3 | 25.3 | 38.3 | 73.7 | 66.5 | 63.4 | 55.4 | 33.5 | 59.1 |
| A08-350020 | 41.6 | 53.4 | 34.2 | 45.3 | 79.6 | 72.4 | 62.5 | 53.0 | 36.7 | 54.6 |
| A08-350036 | 54.4 | 54.3 | 41.4 | 52.5 | 77.1 | 77.1 | 59.4 | 60.2 | 36.6 | 58.3 |
| A08-350042 | 53.7 | 47.9 | 41.5 | 61.0 | 71.5 | 74.8 | 62.9 | 53.0 | 36.9 | 58.1 |
| A08-350049 | 47.7 | 52.2 | 48.7 | 47.1 | 75.9 | 68.1 | 73.4 | 62.3 | 29.7 | 55.2 |
| AR06-264020 | 43.0 | 49.7 | 30.2 | 42.2 | 84.6 | 71.4 | 69.2 | 59.5 | 36.0 | 58.6 |
| AR07-376041 | 52.9 | 48.5 | 46.5 | 47.7 | 78.9 | 73.2 | 59.0 | 56.3 | 34.0 | 62.4 |
| LG06-2340 | 51.9 | 53.6 | 53.1 | 53.5 | 67.3 | 76.0 | 57.5 | 55.6 | 35.7 | 57.9 |
| LG06-2354 | 52.5 | 56.2 | 46.1 | 49.7 | 76.7 | 76.2 | 66.8 | 57.3 | 41.1 | 61.3 |
| LG06-2866 | 52.1 | 54.7 | 52.3 | 41.6 | 75.6 | 82.2 | 58.9 | 53.3 | 38.8 | 55.9 |
| LG06-6094 | 45.3 | 57.5 | 54.7 | 52.8 | 68.1 | 69.5 | 65.4 | 49.4 | 33.1 | 56.7 |
| K07-1544 | 49.0 | 54.9 | 52.7 | 43.4 | 83.8 | 73.9 | 68.3 | 53.5 | 26.6 | 64.2 |
| U05-226055 | 50.1 | 55.4 | 46.8 | 52.9 | 69.6 | 70.7 | 60.5 | 56.7 | 38.0 | 63.1 |
| U06-100052 | 47.4 | 52.4 | 60.8 | 42.3 | 76.4 | 76.6 | 67.9 | 59.2 | 36.4 | 63.4 |
| U06-206737 | 47.5 | 52.1 | 43.2 | 47.1 | 81.8 | 80.8 | 66.9 | 60.9 | 39.4 | 57.2 |
| Location Mean | 49.3 | 52.9 | 44.7 | 47.7 | 77.4 | 75.4 | 64.2 | 57.3 | 35.4 | 58.7 |
| C.V. (%) | 5.2 | 9.3 | 12.5 | 9.2 | 3.4 | 5.6 | 7.5 | 5.7 | 15.6 | 6.6 |
| L.S.D. (5%) | 3.5 | 6.7 | 9.2 | 7.2 | 6.6 | 10.4 | 11.8 | 5.4 | 8.5 | 6.4 |
| Row Sp. (in.) | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 7.5 | 7.5 | 15 |
| Rows/Plot | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 8 | 8 | 6 |
| Reps | 3 | 3 | 3 | 3 | 2 | 2 | 2 | 3 | 3 | 3 |

*Data not included in mean.

UNIFORM TEST III, 2010

YIELD RANK

| Strain | Yield Rank | Ames IA | Carlisle IA | Crawfordsville IA | Arthur IL | Urbana IL | Lafayette IN | Wanatah IN | Ashland KS | Ottawa KS |
|--------------|------------|---------|-------------|-------------------|-----------|-----------|--------------|------------|------------|-----------|
| IA3023 (III) | 2 | 7 | 2 | 7 | 7 | 2 | 18 | 21 | 5 | 3 |
| IA3024 | 11 | 3 | 20 | 24 | 4 | 15 | 22 | 11 | 2 | 15 |
| IA3048 (SCN) | 4 | 5 | 21 | 11 | 8 | 3 | 1 | 2 | 9 | 5 |
| IA4004 | 5 | 19 | 18 | 4 | 11 | 7 | 2 | 18 | 11 | 7 |
| IA4005 | 1 | 1 | 3 | 2 | 1 | 17 | 8 | 4 | 1 | 1 |
| A07-626010 | 19 | 15 | 14 | 16 | 19 | 6 | 14 | 22 | 20 | 18 |
| A08-248015 | 12 | 9 | 6 | 22 | 5 | 12 | 16 | 5 | 7 | 16 |
| A08-248031 | 20 | 2 | 17 | 14 | 10 | 22 | 15 | 9 | 13 | 22 |
| A08-249012 | 22 | 13 | 22 | 23 | 3 | 23 | 20 | 15 | 21 | 19 |
| A08-350016 | 23 | 18 | 11 | 15 | 16 | 16 | 5 | 16 | 22 | 16 |
| A08-350020 | 24 | 11 | 8 | 21 | 24 | 24 | 23 | 20 | 16 | 24 |
| A08-350036 | 6 | 10 | 4 | 9 | 6 | 5 | 3 | 8 | 8 | 9 |
| A08-350042 | 7 | 12 | 10 | 6 | 9 | 4 | 4 | 12 | 3 | 2 |
| A08-350049 | 16 | 17 | 24 | 19 | 21 | 9 | 17 | 7 | 16 | 14 |
| AR06-264020 | 20 | 4 | 5 | 12 | 23 | 11 | 24 | 23 | 24 | 23 |
| AR07-376041 | 18 | 14 | 12 | 20 | 18 | 19 | 21 | 24 | 10 | 21 |
| LG06-2340 | 14 | 23 | 15 | 13 | 20 | 9 | 19 | 10 | 23 | 6 |
| LG06-2354 | 9 | 21 | 7 | 18 | 12 | 1 | 12 | 3 | 19 | 11 |
| LG06-2866 | 13 | 24 | 19 | 8 | 13 | 20 | 9 | 13 | 14 | 12 |
| LG06-6094 | 16 | 20 | 23 | 17 | 17 | 21 | 10 | 6 | 15 | 8 |
| K07-1544 | 3 | 6 | 1 | 1 | 14 | 8 | 7 | 14 | 3 | 10 |
| U05-226055 | 14 | 22 | 15 | 5 | 22 | 13 | 13 | 17 | 11 | 13 |
| U06-100052 | 8 | 16 | 13 | 3 | 2 | 14 | 5 | 1 | 18 | 20 |
| U06-206737 | 10 | 7 | 9 | 10 | 15 | 17 | 11 | 19 | 6 | 4 |

UNIFORM TEST III, 2010

YIELD RANK

| Strain | Manhattan | Columbia | Portageville | Portageville | DeWitt | Lincoln | North | Hoytville | Wooster | South |
|--------------|-----------|----------|--------------|--------------|--------|---------|------------|-----------|---------|------------------|
| | KS | MO | (Clay) MO | (Loam) MO | NE | NE | Bend NE | OH | OH | Charleston OH |
| IA3023 (III) | 4 | 6 | 3 | 16 | 2 | 1 | 4 | 1 | 21 | 1 |
| IA3024 | 9 | 5 | 9 | 17 | 1 | 4 | 24 | 5 | 13 | 23 |
| IA3048 (SCN) | 5 | 17 | 11 | 2 | 17 | 7 | 19 | 4 | 9 | 16 |
| IA4004 | 1 | 2 | 8 | 10 | 11 | 6 | 10 | 15 | 22 | 8 |
| IA4005 | 2 | 1 | 2 | 8 | 8 | 2 | 2 | 2 | 7 | 2 |
| A07-626010 | 20 | 24 | 24 | 3 | 6 | 16 | 17 | 18 | 1 | 17 |
| A08-248015 | 13 | 15 | 18 | 23 | 7 | 8 | 13 | 9 | 4 | 12 |
| A08-248031 | 23 | 23 | 20 | 19 | 21 | 23 | 12 | 11 | 20 | 24 |
| A08-249012 | 24 | 18 | 19 | 14 | 18 | 21 | 7 | 23 | 17 | 20 |
| A08-350016 | 18 | 21 | 23 | 24 | 19 | 24 | 14 | 17 | 18 | 9 |
| A08-350020 | 22 | 12 | 21 | 15 | 9 | 17 | 16 | 21 | 9 | 22 |
| A08-350036 | 3 | 10 | 17 | 7 | 12 | 9 | 20 | 7 | 11 | 11 |
| A08-350042 | 6 | 22 | 16 | 1 | 20 | 13 | 15 | 21 | 8 | 12 |
| A08-350049 | 15 | 14 | 10 | 12 | 15 | 22 | 1 | 3 | 23 | 21 |
| AR06-264020 | 21 | 19 | 22 | 21 | 3 | 18 | 3 | 8 | 14 | 10 |
| AR07-376041 | 7 | 20 | 13 | 11 | 10 | 15 | 21 | 14 | 16 | 6 |
| LG06-2340 | 11 | 11 | 5 | 4 | 24 | 12 | 23 | 16 | 15 | 14 |
| LG06-2354 | 8 | 4 | 14 | 9 | 13 | 11 | 9 | 12 | 2 | 7 |
| LG06-2866 | 9 | 9 | 7 | 22 | 16 | 3 | 22 | 20 | 5 | 19 |
| LG06-6094 | 19 | 3 | 4 | 6 | 23 | 20 | 11 | 24 | 19 | 18 |
| K07-1544 | 14 | 8 | 6 | 18 | 4 | 14 | 4 | 19 | 24 | 3 |
| U05-226055 | 12 | 7 | 12 | 5 | 22 | 19 | 18 | 13 | 6 | 5 |
| U06-100052 | 17 | 13 | 1 | 20 | 14 | 10 | 6 | 10 | 12 | 4 |
| U06-206737 | 16 | 15 | 15 | 12 | 5 | 5 | 8 | 6 | 3 | 15 |

UNIFORM TEST III, 2010

MATURITY (date)

| Strain | Mean | Ames IA | Carlisle IA | Crawfordsville IA | Arthur IL | Urbana IL | Lafayette IN | Wanatah IN | Ashland KS | Ottawa KS |
|----------------|-------------|------------|----------------|----------------------|--------------|--------------|-----------------|---------------|---------------|--------------|
| | 17 Tests | | | | | | | | | |
| IA3023 (III) | 9/21 | 9/29 | 9/23 | 9/29 | 9/17 | 9/15 | 9/20 | 9/21 | 10/1 | |
| IA3024 | -2.8 | -10 | -5 | -3 | -4 | -5 | -4 | -3 | -4 | |
| IA3048 (SCN) | 1.0 | -2 | 1 | 2 | 2 | -1 | 2 | 3 | -2 | |
| IA4004 | 1.7 | 1 | 3 | 7 | -1 | -2 | 4 | 4 | 1 | |
| IA4005 | 6.4 | 4 | 7 | 8 | 4 | 5 | 9 | 10 | 6 | |
| A07-626010 | -2.9 | -9 | -5 | -4 | -5 | -6 | -3 | -1 | -4 | |
| A08-248015 | -2.9 | -10 | -4 | -3 | -1 | -6 | -2 | 0 | -5 | |
| A08-248031 | -2.0 | -9 | -4 | -2 | -1 | -4 | -2 | 2 | -6 | |
| A08-249012 | -2.1 | -5 | -2 | -4 | -1 | -4 | -2 | 2 | -9 | |
| A08-350016 | -0.2 | -5 | -2 | 1 | 1 | -3 | 0 | 3 | -3 | |
| A08-350020 | -2.0 | -6 | -2 | -3 | -3 | -4 | -2 | -2 | -3 | |
| A08-350036 | 2.4 | -3 | 1 | 2 | 1 | 0 | 4 | 4 | 4 | |
| A08-350042 | 3.6 | 1 | 4 | 5 | 4 | 2 | 7 | 7 | 0 | |
| A08-350049 | 0.7 | -2 | -2 | -2 | -2 | -1 | 0 | 3 | 3 | |
| AR06-264020 | -2.5 | -9 | -3 | -3 | -8 | -7 | -5 | -4 | -1 | |
| AR07-376041 | -2.9 | -9 | -4 | -2 | -5 | -7 | -4 | -3 | -1 | |
| LG06-2340 | 2.4 | -1 | 1 | 3 | 3 | 2 | 3 | 5 | 2 | |
| LG06-2354 | 2.6 | -1 | 1 | 2 | 3 | 3 | 5 | 5 | 4 | |
| LG06-2866 | 2.9 | -1 | 4 | 5 | 1 | 1 | 5 | 5 | -1 | |
| LG06-6094 | 3.3 | 4 | 5 | 5 | 3 | 3 | 8 | 7 | -1 | |
| K07-1544 | 2.2 | 1 | 4 | 6 | 0 | 1 | 4 | 4 | -2 | |
| U05-226055 | 3.0 | 1 | 2 | 4 | 2 | 4 | 5 | 4 | 0 | |
| U06-100052 | -2.8 | -5 | -4 | -2 | -5 | -5 | -2 | 3 | -10 | |
| U06-206737 | 3.0 | -2 | 5 | 6 | -1 | -2 | 4 | 4 | 5 | |
| Date Planted | 5/22 | 5/5 | 5/6 | 5/25 | 5/25 | 5/10 | 5/26 | 6/10 | 6/3 | 6/21 |
| Days to Mature | 122 | 147 | 140 | 127 | 115 | 128 | 117 | 103 | 120 | |

UNIFORM TEST III, 2010

MATURITY (date)

| Strain | Manhattan | Columbia | Portageville | Portageville | DeWitt | Lincoln | North | Hoytville | Wooster | South |
|----------------|-----------|----------|--------------|--------------|--------|---------|------------|-----------|---------|------------------|
| | KS | MO | (Clay) MO | (Loam) MO | NE | NE | Bend NE | OH | OH | Charleston OH |
| IA3023 (III) | 10/10 | 9/17 | 9/16 | 8/29 | 9/23 | | 9/25 | 9/23 | 9/14 | 9/21 |
| IA3024 | -4 | 0 | 2 | 0 | -6 | | -2 | -1 | 0 | -4 |
| IA3048 (SCN) | -0 | 2 | 7 | 4 | -2 | | -1 | 1 | 2 | -1 |
| IA4004 | -1 | 2 | 7 | 7 | -5 | | 0 | 0 | 4 | -1 |
| IA4005 | 3 | 11 | 9 | 9 | 3 | | 4 | 5 | 7 | 5 |
| A07-626010 | -6 | -1 | 6 | 6 | -7 | | -4 | -4 | 0 | -3 |
| A08-248015 | -7 | 0 | -1 | 0 | -6 | | -1 | -1 | 1 | -4 |
| A08-248031 | -0 | -1 | 4 | -1 | -5 | | -2 | -2 | 4 | -7 |
| A08-249012 | -6 | 0 | -1 | 3 | -5 | | -3 | -1 | 2 | -2 |
| A08-350016 | -2 | 0 | 6 | 4 | -5 | | 0 | 0 | 4 | -2 |
| A08-350020 | -7 | 0 | 4 | 5 | -4 | | -2 | -2 | 0 | -3 |
| A08-350036 | 1 | 4 | 7 | 6 | 1 | | 2 | 2 | 5 | 0 |
| A08-350042 | -2 | 3 | 5 | 9 | -1 | | 3 | 4 | 8 | 3 |
| A08-350049 | 1 | 4 | 5 | 6 | -2 | | -2 | 1 | 1 | 0 |
| AR06-264020 | -0 | 2 | 6 | 2 | -4 | | -3 | -3 | -1 | -2 |
| AR07-376041 | -4 | -1 | -1 | 1 | -6 | | -3 | -3 | 3 | -2 |
| LG06-2340 | 0 | 1 | 6 | 8 | -2 | | 1 | 2 | 7 | 0 |
| LG06-2354 | 2 | 3 | 4 | 8 | -4 | | 2 | 2 | 5 | 1 |
| LG06-2866 | -1 | 6 | 9 | 8 | -1 | | 1 | -0 | 7 | 1 |
| LG06-6094 | -3 | 4 | 1 | 7 | 2 | | -1 | 3 | 7 | 3 |
| K07-1544 | 1 | 1 | 3 | 7 | -1 | | 0 | 1 | 3 | 3 |
| U05-226055 | 0 | 3 | 6 | 10 | -1 | | 2 | 1 | 7 | 1 |
| U06-100052 | -8 | -1 | -2 | 4 | -6 | | -3 | 0 | 2 | -3 |
| U06-206737 | -1 | 7 | 6 | 7 | 1 | | 0 | 2 | 6 | 3 |
| Date Planted | 6/2 | 5/26 | 5/26 | 5/6 | 5/6 | 5/19 | 5/17 | 5/29 | 5/21 | 5/16 |
| Days to Mature | 130 | 114 | 113 | 115 | 140 | | 131 | 117 | 116 | 128 |

UNIFORM TEST III, 2010

LODGING (score)

| Strain | Mean | Ames IA | Carlisle IA | Crawfordsville IA | Arthur IL | Urbana IL | Lafayette IN | Wanatah IN | Ashland KS | Ottawa KS |
|--------------|-------------|------------|----------------|----------------------|--------------|--------------|-----------------|---------------|---------------|--------------|
| | 17 Tests | | | | | | | | | |
| IA3023 (III) | 1.4 | 1.8 | 2.8 | 1.8 | 1.3 | 1.3 | 1.0 | 1.0 | 2.0 | 1.0 |
| IA3024 | 1.4 | 2.0 | 3.0 | 2.0 | 1.0 | 1.0 | 1.2 | 1.0 | 2.0 | 1.0 |
| IA3048 (SCN) | 1.6 | 2.3 | 3.5 | 2.0 | 2.0 | 1.3 | 1.0 | 1.0 | 2.0 | 1.0 |
| IA4004 | 1.9 | 2.5 | 3.8 | 2.3 | 1.5 | 1.5 | 1.3 | 1.0 | 2.3 | 1.6 |
| IA4005 | 1.3 | 1.5 | 1.8 | 1.5 | 1.5 | 1.0 | 1.0 | 1.0 | 2.0 | 1.0 |
| A07-626010 | 1.6 | 1.8 | 4.0 | 1.5 | 1.0 | 1.3 | 1.0 | 1.0 | 2.3 | 1.4 |
| A08-248015 | 1.6 | 1.8 | 3.0 | 1.5 | 1.5 | 1.0 | 1.0 | 1.0 | 2.7 | 1.0 |
| A08-248031 | 1.5 | 2.0 | 2.5 | 1.8 | 1.5 | 1.0 | 1.0 | 1.0 | 3.0 | 1.0 |
| A08-249012 | 1.6 | 2.8 | 3.3 | 2.0 | 2.0 | 1.5 | 1.0 | 1.2 | 2.7 | 1.0 |
| A08-350016 | 1.4 | 1.8 | 2.8 | 2.0 | 1.3 | 1.0 | 1.0 | 1.0 | 2.0 | 1.0 |
| A08-350020 | 1.5 | 2.5 | 2.3 | 1.8 | 1.5 | 1.3 | 1.0 | 1.0 | 2.0 | 1.2 |
| A08-350036 | 1.8 | 2.3 | 3.3 | 2.0 | 2.0 | 1.5 | 1.3 | 1.0 | 2.0 | 1.0 |
| A08-350042 | 1.7 | 2.5 | 3.0 | 2.0 | 2.5 | 1.0 | 1.0 | 1.0 | 2.3 | 1.1 |
| A08-350049 | 1.7 | 3.3 | 3.5 | 1.8 | 1.5 | 1.0 | 1.0 | 1.0 | 2.3 | 1.0 |
| AR06-264020 | 1.4 | 2.0 | 2.3 | 1.8 | 1.3 | 1.0 | 1.0 | 1.0 | 2.0 | 1.3 |
| AR07-376041 | 1.4 | 1.8 | 2.5 | 1.8 | 1.5 | 1.0 | 1.0 | 1.0 | 2.0 | 1.1 |
| LG06-2340 | 1.5 | 1.8 | 2.5 | 1.5 | 1.5 | 1.3 | 1.2 | 1.0 | 2.0 | 1.0 |
| LG06-2354 | 1.4 | 1.8 | 2.0 | 1.5 | 1.5 | 1.0 | 1.0 | 1.0 | 2.0 | 1.0 |
| LG06-2866 | 2.1 | 3.5 | 3.3 | 2.0 | 2.3 | 1.8 | 1.0 | 1.2 | 2.0 | 1.6 |
| LG06-6094 | 1.9 | 3.3 | 3.3 | 2.0 | 1.8 | 1.3 | 1.2 | 1.0 | 2.7 | 1.0 |
| K07-1544 | 1.3 | 2.3 | 2.3 | 1.5 | 1.0 | 1.0 | 1.0 | 1.0 | 2.0 | 1.1 |
| U05-226055 | 1.6 | 2.0 | 3.2 | 1.5 | 1.5 | 1.0 | 1.0 | 1.0 | 2.3 | 1.0 |
| U06-100052 | 1.3 | 1.8 | 2.3 | 1.5 | 1.0 | 1.0 | 1.0 | 1.0 | 2.0 | 1.0 |
| U06-206737 | 2.1 | 2.8 | 3.8 | 2.3 | 2.8 | 2.0 | 1.3 | 1.0 | 3.0 | 1.1 |

UNIFORM TEST III, 2010

LODGING (score)

| Strain | Manhattan | Columbia | Portageville | Portageville | DeWitt | Lincoln | North | Hoytville | Wooster | South |
|--------------|-----------|----------|--------------|--------------|--------|---------|------------|-----------|---------|------------------|
| | KS | MO | (Clay) MO | (Loam) MO | NE | NE | Bend NE | OH | OH | Charleston OH |
| IA3023 (III) | 1.2 | 2.3 | 1.0 | 1.0 | 1.0 | | | 1.0 | 1.0 | 1.5 |
| IA3024 | 1.7 | 2.0 | 1.0 | 1.0 | 1.0 | | | 1.0 | 1.0 | 1.0 |
| IA3048 (SCN) | 2.1 | 2.0 | 2.0 | 1.0 | 1.0 | | | 1.0 | 1.0 | 1.8 |
| IA4004 | 2.4 | 3.0 | 3.0 | 1.0 | 1.0 | | | 1.0 | 1.0 | 1.5 |
| IA4005 | 1.0 | 1.7 | 2.0 | 1.0 | 1.0 | | | 1.0 | 1.0 | 1.3 |
| A07-626010 | 1.8 | 2.0 | 3.0 | 1.0 | 1.0 | | | 1.0 | 1.0 | 1.4 |
| A08-248015 | 2.3 | 2.7 | 2.0 | 1.0 | 1.0 | | | 1.0 | 1.0 | 1.3 |
| A08-248031 | 2.3 | 2.3 | 1.0 | 1.0 | 1.0 | | | 1.0 | 1.0 | 1.2 |
| A08-249012 | 1.4 | 2.7 | 1.0 | 1.0 | 1.0 | | | 1.0 | 1.0 | 1.3 |
| A08-350016 | 1.7 | 2.3 | 1.0 | 1.0 | 1.0 | | | 1.0 | 1.0 | 1.3 |
| A08-350020 | 1.6 | 2.7 | 1.0 | 1.0 | 1.0 | | | 1.0 | 1.0 | 1.5 |
| A08-350036 | 2.4 | 3.0 | 3.0 | 1.0 | 1.0 | | | 1.0 | 1.0 | 1.4 |
| A08-350042 | 2.2 | 2.7 | 2.0 | 1.0 | 1.0 | | | 1.0 | 1.0 | 1.3 |
| A08-350049 | 2.1 | 3.0 | 2.0 | 1.0 | 1.0 | | | 1.0 | 1.0 | 1.8 |
| AR06-264020 | 1.5 | 2.0 | 1.0 | 1.0 | 1.0 | | | 1.0 | 1.0 | 1.4 |
| AR07-376041 | 1.7 | 2.0 | 1.0 | 1.0 | 1.0 | | | 1.0 | 1.0 | 1.3 |
| LG06-2340 | 1.8 | 2.3 | 2.0 | 1.0 | 1.0 | | | 1.0 | 1.0 | 1.3 |
| LG06-2354 | 1.8 | 2.3 | 2.0 | 1.0 | 1.0 | | | 1.0 | 1.0 | 1.2 |
| LG06-2866 | 2.5 | 3.3 | 4.0 | 1.0 | 1.5 | | | 1.0 | 1.0 | 2.0 |
| LG06-6094 | 1.9 | 3.0 | 3.0 | 1.0 | 2.0 | | | 1.0 | 1.0 | 1.7 |
| K07-1544 | 1.3 | 2.0 | 1.0 | 1.0 | 1.0 | | | 1.0 | 1.0 | 1.2 |
| U05-226055 | 1.7 | 2.0 | 2.0 | 2.0 | 1.0 | | | 1.0 | 1.0 | 1.4 |
| U06-100052 | 1.3 | 2.0 | 1.0 | 1.0 | 1.0 | | | 1.0 | 1.0 | 1.0 |
| U06-206737 | 2.4 | 4.0 | 3.0 | 1.0 | 2.0 | | | 1.0 | 1.0 | 1.7 |

UNIFORM TEST III, 2010

PLANT HEIGHT (inches)

| Strain | Mean | Ames IA | Carlisle IA | Crawfordsville IA | Arthur IL | Urbana IL | Lafayette IN | Wanatah IN | Ashland KS | Ottawa KS |
|--------------|-------------|------------|----------------|----------------------|--------------|--------------|-----------------|---------------|---------------|--------------|
| | 16 Tests | | | | | | | | | |
| IA3023 (III) | 33 | 37 | 40 | 32 | 36 | 31 | 40 | 31 | 39 | 27 |
| IA3024 | 33 | 38 | 42 | 30 | 35 | 30 | 37 | 31 | 40 | 27 |
| IA3048 (SCN) | 34 | 39 | 38 | 32 | 37 | 33 | 41 | 32 | 42 | 28 |
| IA4004 | 36 | 42 | 43 | 34 | 42 | 36 | 43 | 33 | 45 | 26 |
| IA4005 | 32 | 37 | 41 | 29 | 35 | 30 | 37 | 29 | 38 | 26 |
| A07-626010 | 33 | 36 | 39 | 29 | 34 | 32 | 40 | 31 | 38 | 28 |
| A08-248015 | 35 | 42 | 41 | 30 | 38 | 35 | 41 | 32 | 40 | 27 |
| A08-248031 | 32 | 37 | 42 | 30 | 35 | 29 | 37 | 30 | 34 | 25 |
| A08-249012 | 36 | 39 | 44 | 33 | 42 | 33 | 42 | 35 | 45 | 31 |
| A08-350016 | 34 | 35 | 42 | 31 | 36 | 31 | 43 | 34 | 41 | 29 |
| A08-350020 | 36 | 43 | 43 | 30 | 39 | 32 | 42 | 35 | 47 | 28 |
| A08-350036 | 38 | 46 | 40 | 36 | 44 | 38 | 45 | 37 | 48 | 31 |
| A08-350042 | 38 | 45 | 45 | 34 | 41 | 36 | 46 | 36 | 42 | 29 |
| A08-350049 | 41 | 46 | 47 | 37 | 44 | 38 | 51 | 40 | 43 | 32 |
| AR06-264020 | 32 | 34 | 41 | 27 | 33 | 30 | 37 | 30 | 37 | 25 |
| AR07-376041 | 33 | 37 | 41 | 28 | 39 | 33 | 38 | 31 | 38 | 26 |
| LG06-2340 | 34 | 36 | 43 | 29 | 35 | 33 | 41 | 34 | 40 | 26 |
| LG06-2354 | 33 | 39 | 41 | 28 | 34 | 32 | 39 | 31 | 39 | 26 |
| LG06-2866 | 36 | 36 | 40 | 34 | 41 | 35 | 43 | 35 | 46 | 30 |
| LG06-6094 | 38 | 40 | 44 | 33 | 43 | 36 | 46 | 37 | 46 | 29 |
| K07-1544 | 33 | 40 | 43 | 32 | 36 | 32 | 40 | 33 | 38 | 27 |
| U05-226055 | 35 | 41 | 43 | 33 | 37 | 35 | 42 | 34 | 38 | 30 |
| U06-100052 | 32 | 36 | 40 | 30 | 36 | 32 | 39 | 29 | 37 | 24 |
| U06-206737 | 36 | 42 | 36 | 32 | 40 | 38 | 43 | 35 | 42 | 28 |

UNIFORM TEST III, 2010

PLANT HEIGHT (inches)

| Strain | Manhattan | Columbia | Portageville | Portageville | DeWitt | Lincoln | North | Hoytville | Wooster | South |
|--------------|-----------|----------|--------------|--------------|--------|---------|------------|-----------|---------|------------------|
| | KS | MO | (Clay) MO | (Loam) MO | NE | NE | Bend NE | OH | OH | Charleston OH |
| IA3023 (III) | 37 | | 26 | 26 | 39 | | | 31 | 21 | 34 |
| IA3024 | 40 | | 29 | 23 | 41 | | | 30 | 21 | 32 |
| IA3048 (SCN) | 44 | | 24 | 20 | 42 | | | 32 | 23 | 34 |
| IA4004 | 42 | | 26 | 30 | 43 | | | 34 | 22 | 38 |
| IA4005 | 37 | | 30 | 32 | 37 | | | 29 | 20 | 31 |
| A07-626010 | 42 | | 27 | 28 | 40 | | | 32 | 24 | 36 |
| A08-248015 | 43 | | 26 | 28 | 44 | | | 31 | 23 | 35 |
| A08-248031 | 38 | | 27 | 29 | 34 | | | 30 | 22 | 31 |
| A08-249012 | 41 | | 30 | 27 | 45 | | | 32 | 23 | 40 |
| A08-350016 | 39 | | 28 | 26 | 40 | | | 35 | 25 | 34 |
| A08-350020 | 42 | | 30 | 28 | 42 | | | 33 | 25 | 38 |
| A08-350036 | 44 | | 30 | 28 | 42 | | | 36 | 25 | 41 |
| A08-350042 | 46 | | 28 | 38 | 43 | | | 35 | 25 | 39 |
| A08-350049 | 44 | | 36 | 33 | 49 | | | 40 | 26 | 45 |
| AR06-264020 | 40 | | 30 | 24 | 37 | | | 29 | 19 | 33 |
| AR07-376041 | 40 | | 28 | 27 | 38 | | | 29 | 19 | 33 |
| LG06-2340 | 40 | | 31 | 26 | 40 | | | 32 | 22 | 36 |
| LG06-2354 | 40 | | 26 | 26 | 40 | | | 32 | 22 | 37 |
| LG06-2866 | 44 | | 29 | 27 | 44 | | | 36 | 24 | 39 |
| LG06-6094 | 43 | | 33 | 28 | 46 | | | 33 | 23 | 42 |
| K07-1544 | 36 | | 28 | 24 | 40 | | | 29 | 21 | 33 |
| U05-226055 | 39 | | 30 | 26 | 41 | | | 33 | 23 | 37 |
| U06-100052 | 36 | | 28 | 23 | 41 | | | 30 | 19 | 31 |
| U06-206737 | 43 | | 28 | 30 | 38 | | | 37 | 24 | 38 |

UNIFORM TEST III, 2010

SEED QUALITY (score)

| Strain | Mean | Ames IA | Carlisle IA | Crawfordsville IA | Arthur IL | Urbana IL | Lafayette IN | Wanatah IN | Ashland KS | Ottawa KS |
|--------------|-------------|------------|----------------|----------------------|--------------|--------------|-----------------|---------------|---------------|--------------|
| | 14 Tests | | | | | | | | | |
| IA3023 (III) | 1.6 | | | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 2.0 | 2.0 |
| IA3024 | 1.6 | | | 2.0 | 1.0 | 1.0 | 1.0 | 1.0 | 2.0 | 2.0 |
| IA3048 (SCN) | 1.8 | | | 2.0 | 1.0 | 1.0 | 1.0 | 1.0 | 2.0 | 2.0 |
| IA4004 | 1.9 | | | 2.0 | 1.0 | 2.0 | 1.5 | 1.0 | 2.0 | 2.0 |
| IA4005 | 1.8 | | | 3.0 | 1.0 | 1.0 | 1.0 | 1.0 | 2.0 | 2.0 |
| A07-626010 | 2.2 | | | 1.0 | 2.0 | 2.0 | 1.0 | 1.0 | 2.0 | 2.0 |
| A08-248015 | 1.8 | | | 1.0 | 1.0 | 2.0 | 1.0 | 1.0 | 2.0 | 2.0 |
| A08-248031 | 1.8 | | | 1.0 | 1.0 | 2.0 | 1.0 | 1.0 | 2.0 | 2.0 |
| A08-249012 | 1.8 | | | 1.0 | 2.0 | 1.0 | 1.5 | 1.0 | 2.0 | 1.0 |
| A08-350016 | 1.9 | | | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 2.0 | 2.0 |
| A08-350020 | 2.0 | | | 1.0 | 2.0 | 1.0 | 1.0 | 1.0 | 2.0 | 2.0 |
| A08-350036 | 1.7 | | | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 2.0 | 2.0 |
| A08-350042 | 2.1 | | | 1.0 | 2.0 | 1.0 | 1.0 | 1.0 | 2.0 | 2.0 |
| A08-350049 | 2.1 | | | 2.0 | 2.0 | 1.0 | 2.0 | 1.0 | 2.0 | 2.0 |
| AR06-264020 | 2.6 | | | 3.0 | 3.0 | 3.0 | 2.5 | 1.0 | 3.0 | 2.0 |
| AR07-376041 | 1.8 | | | 2.0 | 1.0 | 1.0 | 1.0 | 1.0 | 2.0 | 2.0 |
| LG06-2340 | 1.8 | | | 2.0 | 1.0 | 1.0 | 1.0 | 1.0 | 2.0 | 2.0 |
| LG06-2354 | 1.6 | | | 2.0 | 1.0 | 1.0 | 1.0 | 1.0 | 2.0 | 2.0 |
| LG06-2866 | 1.9 | | | 2.0 | 1.0 | 2.0 | 1.0 | 1.0 | 2.0 | 2.0 |
| LG06-6094 | 1.6 | | | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 2.0 | 2.0 |
| K07-1544 | 1.7 | | | 2.0 | 1.0 | 1.0 | 1.0 | 1.0 | 2.0 | 2.0 |
| U05-226055 | 1.8 | | | 2.0 | 1.0 | 1.0 | 1.0 | 1.0 | 2.0 | 2.0 |
| U06-100052 | 1.7 | | | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 3.0 | 2.0 |
| U06-206737 | 1.6 | | | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 2.0 | 2.0 |

UNIFORM TEST III, 2010

SEED QUALITY (score)

| Strain | Manhattan | Columbia | Portageville | Portageville | DeWitt | Lincoln | North | Hoytville | Wooster | South |
|--------------|-----------|----------|--------------|--------------|--------|---------|------------|-----------|---------|------------------|
| | KS | MO | (Clay) MO | (Loam) MO | NE | NE | Bend NE | OH | OH | Charleston OH |
| IA3023 (III) | 2.0 | | 3.0 | 3.0 | | | 2.0 | 1.0 | 1.0 | 1.0 |
| IA3024 | 2.0 | | 3.0 | 3.0 | | | 1.0 | 1.0 | 1.0 | 1.9 |
| IA3048 (SCN) | 2.0 | | 4.0 | 3.0 | | | 2.0 | 1.0 | 1.0 | 1.6 |
| IA4004 | 2.0 | | 4.0 | 3.0 | | | 2.0 | 1.0 | 1.5 | 2.0 |
| IA4005 | 2.0 | | 3.0 | 2.0 | | | 2.0 | 2.0 | 1.0 | 2.0 |
| A07-626010 | 2.0 | | 5.0 | 4.0 | | | 2.0 | 2.0 | 2.0 | 3.0 |
| A08-248015 | 2.0 | | 4.0 | 3.0 | | | 1.0 | 1.0 | 1.5 | 2.4 |
| A08-248031 | 2.0 | | 5.0 | 3.0 | | | 2.0 | 1.0 | 1.0 | 1.9 |
| A08-249012 | 2.0 | | 4.0 | 3.0 | | | 2.0 | 1.0 | 1.0 | 3.0 |
| A08-350016 | 3.0 | | 4.0 | 4.0 | | | 2.0 | 1.0 | 1.5 | 2.3 |
| A08-350020 | 2.0 | | 5.0 | 3.0 | | | 2.0 | 1.5 | 2.0 | 2.7 |
| A08-350036 | 2.0 | | 4.0 | 3.0 | | | 2.0 | 1.0 | 1.0 | 2.2 |
| A08-350042 | 2.0 | | 5.0 | 3.0 | | | 2.0 | 2.5 | 2.0 | 3.0 |
| A08-350049 | 2.0 | | 4.0 | 3.0 | | | 2.0 | 1.5 | 1.5 | 3.0 |
| AR06-264020 | 2.0 | | 5.0 | 4.0 | | | 3.0 | 1.5 | 2.0 | 2.0 |
| AR07-376041 | 2.0 | | 4.0 | 3.0 | | | 2.0 | 1.5 | 1.0 | 2.0 |
| LG06-2340 | 2.0 | | 4.0 | 3.0 | | | 2.0 | 1.0 | 1.0 | 1.6 |
| LG06-2354 | 2.0 | | 3.0 | 2.0 | | | 1.0 | 1.0 | 1.0 | 2.0 |
| LG06-2866 | 2.0 | | 4.0 | 4.0 | | | 2.0 | 1.0 | 1.0 | 1.7 |
| LG06-6094 | 2.0 | | 3.0 | 2.0 | | | 2.0 | 1.5 | 1.0 | 2.0 |
| K07-1544 | 2.0 | | 4.0 | 2.0 | | | 1.0 | 1.0 | 1.0 | 2.4 |
| U05-226055 | 2.0 | | 4.0 | 3.0 | | | 2.0 | 1.0 | 1.0 | 1.8 |
| U06-100052 | 2.0 | | 3.0 | 3.0 | | | 2.0 | 1.0 | 1.0 | 1.4 |
| U06-206737 | 2.0 | | 3.0 | 3.0 | | | 2.0 | 1.0 | 1.0 | 2.0 |

UNIFORM TEST III, 2010

SEED SIZE (g/100)

| Strain | Mean | Ames IA | Carlisle IA | Crawfordsville IA | Arthur IL | Urbana IL | Lafayette IN | Wanatah IN | Ashland KS | Ottawa KS |
|--------------|-------------|------------|----------------|----------------------|--------------|--------------|-----------------|---------------|---------------|--------------|
| | 18 Tests | | | | | | | | | |
| IA3023 (III) | 13.6 | 14.8 | 14.7 | 13.5 | 10.7 | 12.1 | 12.0 | 10.9 | 13.8 | 14.9 |
| IA3024 | 14.1 | 15.3 | 15.7 | 14.5 | 11.3 | 12.2 | 13.3 | 11.4 | 13.8 | 14.3 |
| IA3048 (SCN) | 12.7 | 14.1 | 13.4 | 12.9 | 10.2 | 10.9 | 12.6 | 11.5 | 12.2 | 13.7 |
| IA4004 | 14.7 | 15.8 | 15.5 | 14.6 | 12.6 | 12.1 | 15.4 | 12.7 | 15.5 | 15.9 |
| IA4005 | 12.9 | 14.3 | 14.4 | 13.0 | 11.8 | 10.7 | 13.1 | 11.6 | 14.2 | 13.6 |
| A07-626010 | 14.3 | 15.4 | 15.0 | 14.0 | 11.3 | 12.3 | 14.2 | 11.7 | 15.5 | 16.3 |
| A08-248015 | 13.3 | 15.0 | 14.7 | 12.4 | 9.6 | 11.0 | 13.9 | 11.3 | 14.0 | 14.1 |
| A08-248031 | 11.7 | 13.1 | 12.6 | 11.2 | 11.6 | 10.1 | 11.6 | 9.6 | 12.1 | 13.0 |
| A08-249012 | 13.8 | 15.6 | 14.7 | 13.3 | 12.6 | 12.0 | 14.5 | 12.5 | 14.0 | 14.0 |
| A08-350016 | 14.5 | 15.6 | 15.6 | 14.3 | 10.3 | 12.2 | 15.3 | 12.5 | 16.1 | 15.8 |
| A08-350020 | 13.1 | 14.4 | 14.4 | 12.2 | 11.8 | 10.1 | 14.2 | 10.3 | 13.3 | 13.6 |
| A08-350036 | 14.2 | 15.0 | 14.7 | 14.0 | 10.7 | 12.5 | 14.4 | 13.1 | 15.8 | 17.1 |
| A08-350042 | 13.1 | 14.6 | 14.1 | 13.2 | 12.8 | 11.0 | 13.7 | 12.7 | 13.1 | 14.4 |
| A08-350049 | 16.5 | 16.6 | 16.9 | 16.3 | 12.4 | 15.7 | 17.9 | 14.7 | 18.9 | 18.7 |
| AR06-264020 | 15.5 | 17.3 | 16.7 | 14.8 | 9.0 | 13.4 | 14.7 | 11.2 | 18.5 | 15.3 |
| AR07-376041 | 11.7 | 12.8 | 12.5 | 10.3 | 10.6 | 10.0 | 11.0 | 8.7 | 13.1 | 13.1 |
| LG06-2340 | 13.8 | 15.1 | 15.1 | 13.2 | 10.6 | 11.4 | 13.6 | 12.7 | 16.2 | 16.0 |
| LG06-2354 | 14.9 | 16.0 | 16.1 | 13.7 | 11.7 | 12.7 | 14.4 | 13.4 | 16.4 | 16.7 |
| LG06-2866 | 11.5 | 13.3 | 12.8 | 11.0 | 8.9 | 9.2 | 11.7 | 10.3 | 13.3 | 13.0 |
| LG06-6094 | 11.1 | 12.4 | 12.3 | 11.2 | 9.4 | 9.6 | 11.4 | 10.5 | 11.2 | 12.6 |
| K07-1544 | 12.6 | 14.5 | 14.2 | 14.0 | 10.0 | 11.0 | 12.6 | 11.5 | 14.5 | 14.3 |
| U05-226055 | 13.2 | 13.9 | 14.4 | 13.1 | 10.5 | 11.7 | 12.9 | 11.6 | 13.4 | 14.4 |
| U06-100052 | 13.4 | 14.4 | 14.0 | 13.6 | 10.6 | 11.7 | 13.4 | 13.0 | 13.1 | 13.5 |
| U06-206737 | 15.0 | 16.5 | 16.9 | 15.7 | 11.4 | 12.6 | 15.4 | 12.8 | 16.0 | 16.3 |

UNIFORM TEST III, 2010

SEED SIZE (g/100)

| Strain | Manhattan KS | Columbia MO | Portageville | | DeWitt NE | Lincoln NE | North | Hoytville OH | Wooster OH | South |
|--------------|-----------------|----------------|--------------|--------------|--------------|---------------|------------|-----------------|---------------|------------------|
| | | | (Clay) MO | (Loam) MO | | | Bend NE | | | Charleston OH |
| IA3023 (III) | 17.0 | | 14.3 | 12.2 | 15.1 | 15.4 | 12.9 | 12.8 | 14.0 | 14.4 |
| IA3024 | 17.3 | | 14.7 | 11.4 | 16.4 | 15.1 | 13.3 | 13.8 | 14.3 | 15.8 |
| IA3048 (SCN) | 15.2 | | 13.9 | 10.8 | 13.2 | 13.7 | 11.2 | 12.2 | 13.4 | 13.8 |
| IA4004 | 17.2 | | 15.9 | 13.6 | 14.5 | 15.2 | 14.9 | 13.2 | 14.9 | 15.9 |
| IA4005 | 14.0 | | 12.1 | 10.1 | 12.6 | 14.9 | 12.4 | 12.3 | 13.3 | 13.2 |
| A07-626010 | 18.4 | | 12.9 | 13.9 | 15.1 | 15.8 | 13.6 | 12.5 | 14.8 | 15.1 |
| A08-248015 | 16.8 | | 13.7 | 12.1 | 13.9 | 15.2 | 13.0 | 12.4 | 12.4 | 14.1 |
| A08-248031 | 14.9 | | 12.1 | 9.1 | 11.6 | 13.4 | 10.4 | 10.5 | 11.1 | 12.0 |
| A08-249012 | 16.6 | | 12.7 | 11.4 | 14.0 | 15.4 | 13.2 | 12.7 | 14.3 | 15.4 |
| A08-350016 | 19.1 | | 13.8 | 11.1 | 15.5 | 16.0 | 14.6 | 13.4 | 14.1 | 15.7 |
| A08-350020 | 16.7 | | 14.4 | 10.7 | 13.2 | 14.4 | 12.8 | 11.9 | 13.4 | 13.7 |
| A08-350036 | 17.3 | | 13.7 | 11.7 | 14.3 | 15.3 | 13.0 | 13.2 | 14.8 | 15.5 |
| A08-350042 | 15.3 | | 12.9 | 10.9 | 12.9 | 13.9 | 12.6 | 12.6 | 12.3 | 13.4 |
| A08-350049 | 20.4 | | 15.2 | 13.1 | 15.8 | 17.9 | 16.4 | 15.7 | 16.3 | 18.4 |
| AR06-264020 | 19.4 | | 16.0 | 15.8 | 16.7 | 18.4 | 14.8 | 14.5 | 15.1 | 16.9 |
| AR07-376041 | 14.7 | | 12.3 | 9.8 | 11.9 | 12.9 | 11.6 | 10.7 | 12.3 | 12.7 |
| LG06-2340 | 17.6 | | 13.7 | 10.2 | 14.3 | 15.8 | 12.6 | 12.5 | 13.9 | 14.7 |
| LG06-2354 | 19.1 | | 15.3 | 12.8 | 15.0 | 17.3 | 14.5 | 13.4 | 14.7 | 15.2 |
| LG06-2866 | 14.3 | | 11.9 | 8.4 | 11.5 | 12.4 | 10.3 | 10.2 | 11.7 | 12.6 |
| LG06-6094 | 14.1 | | 10.9 | 9.0 | 11.1 | 11.7 | 10.2 | 9.7 | 11.4 | 11.6 |
| K07-1544 | 16.4 | | 2.8 | 12.1 | 13.1 | 13.5 | 12.6 | 12.6 | 13.5 | 14.6 |
| U05-226055 | 16.6 | | 14.3 | 11.7 | 13.1 | 15.8 | 11.7 | 11.7 | 13.3 | 13.3 |
| U06-100052 | 17.5 | | 14.1 | 11.9 | 12.6 | 14.6 | 12.8 | 12.6 | 13.7 | 14.5 |
| U06-206737 | 19.4 | | 14.8 | 10.6 | 16.1 | 16.5 | 14.9 | 13.9 | 13.9 | 16.1 |

UNIFORM TEST III, 2010

PROTEIN (%)

| Strain | Mean 11 Tests | Carlisle IA | Crawfordsville IA | Urbana IL | Lafayette IN | Wanatah IN | Ashland KS |
|--------------|---------------------|----------------|----------------------|--------------|-----------------|---------------|---------------|
| IA3023 (III) | 32.9 | 34.1 | 33.5 | 31.3 | 34.0 | 33.6 | 34.4 |
| IA3024 | 31.9 | 32.1 | 32.5 | 30.9 | 33.0 | 32.1 | 34.2 |
| IA3048 (SCN) | 33.4 | 33.9 | 34.7 | 32.2 | 33.9 | 33.2 | 34.3 |
| IA4004 | 34.2 | 33.9 | 34.8 | 33.8 | 34.9 | 35.3 | 35.6 |
| IA4005 | 32.5 | 32.6 | 33.7 | 31.4 | 33.8 | 32.3 | 34.9 |
| A07-626010 | 33.7 | 32.9 | 34.1 | 33.0 | 35.2 | 34.5 | 35.9 |
| A08-248015 | 33.9 | 34.6 | 33.6 | 33.0 | 35.8 | 34.8 | 35.6 |
| A08-248031 | 35.4 | 35.1 | 35.6 | 34.4 | 36.5 | 35.6 | 36.4 |
| A08-249012 | 34.1 | 33.5 | 33.9 | 33.9 | 35.6 | 34.3 | 35.4 |
| A08-350016 | 34.2 | 34.7 | 34.7 | 33.5 | 35.4 | 34.6 | 35.5 |
| A08-350020 | 34.3 | 34.1 | 33.9 | 33.4 | 35.9 | 35.4 | 35.6 |
| A08-350036 | 34.1 | 35.2 | 34.2 | 33.0 | 35.0 | 34.0 | 35.6 |
| A08-350042 | 34.0 | 34.5 | 34.9 | 32.6 | 35.3 | 34.5 | 35.4 |
| A08-350049 | 34.5 | 35.1 | 35.3 | 32.5 | 34.8 | 34.9 | 36.6 |
| AR06-264020 | 33.5 | 33.1 | 35.2 | 32.2 | 34.9 | 34.1 | 35.1 |
| AR07-376041 | 33.0 | 33.0 | 33.3 | 31.4 | 34.4 | 33.6 | 35.0 |
| LG06-2340 | 33.8 | 34.3 | 33.3 | 33.0 | 34.4 | 35.2 | 35.3 |
| LG06-2354 | 34.2 | 33.8 | 35.1 | 33.7 | 34.9 | 34.5 | 36.0 |
| LG06-2866 | 32.5 | 33.3 | 32.4 | 32.3 | 34.2 | 32.6 | 34.4 |
| LG06-6094 | 32.8 | 32.2 | 32.3 | 31.8 | 33.8 | 33.1 | 34.2 |
| K07-1544 | 32.8 | 33.0 | 33.6 | 31.4 | 34.4 | 33.4 | 34.0 |
| U05-226055 | 33.8 | 33.9 | 34.4 | 33.3 | 34.4 | 34.1 | 35.8 |
| U06-100052 | 34.3 | 34.2 | 35.7 | 33.8 | 35.5 | 35.0 | 35.2 |
| U06-206737 | 34.3 | 34.6 | 35.2 | 33.0 | 35.5 | 34.5 | 36.4 |

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

UNIFORM TEST III, 2010

PROTEIN (%)

| Strain | North Bend NE | Hoytville OH | Wooster OH | Portageville (Loam) MO | South Charleston OH |
|--------------|---------------------|-----------------|---------------|------------------------------|---------------------------|
| IA3023 (III) | 33.4 | 32.7 | 32.8 | 31.8 | 30.2 |
| IA3024 | 32.1 | 31.5 | 31.9 | 30.6 | 30.4 |
| IA3048 (SCN) | 34.1 | 33.1 | 33.0 | 32.2 | 32.9 |
| IA4004 | 34.5 | 34.3 | 33.8 | 33.4 | 32.0 |
| IA4005 | 33.2 | 31.9 | 32.3 | 31.0 | 30.8 |
| A07-626010 | 34.4 | 32.8 | 32.8 | 33.9 | 30.8 |
| A08-248015 | 35.1 | 33.4 | 32.9 | 32.8 | 31.9 |
| A08-248031 | 35.6 | 35.6 | 34.9 | 35.4 | 34.7 |
| A08-249012 | 35.7 | 33.7 | 33.1 | 33.8 | 31.6 |
| A08-350016 | 35.2 | 33.7 | 33.9 | 33.9 | 31.4 |
| A08-350020 | 35.1 | 33.7 | 34.5 | 33.6 | 32.0 |
| A08-350036 | 33.8 | 34.0 | 33.1 | 32.9 | 33.6 |
| A08-350042 | 34.7 | 33.2 | 33.5 | 33.1 | 32.7 |
| A08-350049 | 36.3 | 33.7 | 33.7 | 33.4 | 33.0 |
| AR06-264020 | 33.9 | 33.1 | 31.9 | 32.7 | 32.2 |
| AR07-376041 | 33.8 | 32.3 | 31.9 | 30.8 | 32.9 |
| LG06-2340 | 35.1 | 33.6 | 33.2 | 33.1 | 31.5 |
| LG06-2354 | 35.3 | 33.0 | 33.7 | 32.5 | 33.2 |
| LG06-2866 | 33.6 | 32.2 | 31.5 | 30.9 | 30.5 |
| LG06-6094 | 34.1 | 32.5 | 32.7 | 32.3 | 31.3 |
| K07-1544 | 33.1 | 32.5 | 31.6 | 32.0 | 31.6 |
| U05-226055 | 34.5 | 32.9 | 33.6 | 32.6 | 32.7 |
| U06-100052 | 35.2 | 33.4 | 33.2 | 32.8 | 32.9 |
| U06-206737 | 35.0 | 33.5 | 34.2 | 33.3 | 32.3 |

UNIFORM TEST III, 2010

OIL (%)

| Strain | Mean 11 Tests | Carlisle IA | Crawfordsville IA | Urbana IL | Lafayette IN | Wanatah IN | Ashland KS |
|--------------|---------------------|----------------|----------------------|--------------|-----------------|---------------|---------------|
| IA3023 (III) | 18.8 | 18.2 | 18.9 | 19.3 | 18.1 | 18.3 | 19.3 |
| IA3024 | 18.9 | 19.1 | 18.8 | 19.1 | 18.3 | 18.1 | 19.1 |
| IA3048 (SCN) | 18.3 | 17.9 | 18.7 | 18.9 | 18.3 | 18.1 | 18.7 |
| IA4004 | 18.0 | 17.9 | 17.5 | 17.9 | 17.6 | 18.0 | 18.2 |
| IA4005 | 18.5 | 18.1 | 18.5 | 18.7 | 18.4 | 18.5 | 19.1 |
| A07-626010 | 18.1 | 18.0 | 17.8 | 18.3 | 17.6 | 17.6 | 17.8 |
| A08-248015 | 18.2 | 18.3 | 18.0 | 18.5 | 18.0 | 17.8 | 18.2 |
| A08-248031 | 17.3 | 16.7 | 17.4 | 17.6 | 17.5 | 16.9 | 18.1 |
| A08-249012 | 18.7 | 18.5 | 18.7 | 19.4 | 18.5 | 18.1 | 18.8 |
| A08-350016 | 18.4 | 19.0 | 19.0 | 18.1 | 17.6 | 17.8 | 19.0 |
| A08-350020 | 17.7 | 17.5 | 17.9 | 17.0 | 18.4 | 16.9 | 18.4 |
| A08-350036 | 17.9 | 18.3 | 17.7 | 17.7 | 17.4 | 17.8 | 17.8 |
| A08-350042 | 18.0 | 18.1 | 18.7 | 17.8 | 17.7 | 18.0 | 18.2 |
| A08-350049 | 18.5 | 17.8 | 18.5 | 19.2 | 18.0 | 17.8 | 19.5 |
| AR06-264020 | 18.4 | 18.4 | 18.4 | 18.9 | 17.8 | 17.7 | 18.7 |
| AR07-376041 | 18.3 | 17.7 | 17.8 | 19.0 | 17.3 | 17.5 | 19.2 |
| LG06-2340 | 18.4 | 17.7 | 19.0 | 18.3 | 17.7 | 17.7 | 19.0 |
| LG06-2354 | 18.3 | 17.7 | 18.7 | 18.1 | 17.6 | 17.6 | 18.9 |
| LG06-2866 | 18.1 | 17.6 | 17.8 | 18.1 | 17.4 | 18.2 | 18.6 |
| LG06-6094 | 17.1 | 17.1 | 17.6 | 17.0 | 16.8 | 17.2 | 17.9 |
| K07-1544 | 18.6 | 17.8 | 18.3 | 18.7 | 18.6 | 18.2 | 19.1 |
| U05-226055 | 18.0 | 17.9 | 17.4 | 18.1 | 17.2 | 17.9 | 18.6 |
| U06-100052 | 17.3 | 17.0 | 17.1 | 17.1 | 16.8 | 17.2 | 18.1 |
| U06-206737 | 18.4 | 17.7 | 18.4 | 18.5 | 18.2 | 18.0 | 19.3 |

UNIFORM TEST III, 2010

OIL (%)

| Strain | North Bend NE | Hoytville OH | Wooster OH | Portageville (Loam) MO | South Charleston OH |
|--------------|---------------------|-----------------|---------------|------------------------------|---------------------------|
| IA3023 (III) | 18.8 | 18.9 | 18.8 | 19.1 | 18.9 |
| IA3024 | 19.1 | 19.3 | 18.8 | 19.6 | 18.8 |
| IA3048 (SCN) | 17.7 | 18.3 | 18.3 | 18.7 | 17.3 |
| IA4004 | 17.7 | 17.6 | 17.9 | 19.3 | 17.8 |
| IA4005 | 17.6 | 18.7 | 18.8 | 19.1 | 18.0 |
| A07-626010 | 18.3 | 18.3 | 18.7 | 17.6 | 18.7 |
| A08-248015 | 18.3 | 18.1 | 18.4 | 18.4 | 18.3 |
| A08-248031 | 17.2 | 16.6 | 17.5 | 16.7 | 18.1 |
| A08-249012 | 19.1 | 18.3 | 18.9 | 17.9 | 18.9 |
| A08-350016 | 18.0 | 18.4 | 18.3 | 17.8 | 19.2 |
| A08-350020 | 17.2 | 17.8 | 17.9 | 17.8 | 18.2 |
| A08-350036 | 17.6 | 18.1 | 18.5 | 18.1 | 18.5 |
| A08-350042 | 17.5 | 18.2 | 17.9 | 18.4 | 17.5 |
| A08-350049 | 19.3 | 19.1 | 18.6 | 17.8 | 18.2 |
| AR06-264020 | 17.8 | 18.8 | 18.8 | 18.3 | 18.6 |
| AR07-376041 | 17.9 | 18.3 | 19.0 | 19.1 | 18.2 |
| LG06-2340 | 17.8 | 18.8 | 18.6 | 18.7 | 18.9 |
| LG06-2354 | 17.7 | 18.9 | 18.1 | 19.0 | 19.1 |
| LG06-2866 | 18.0 | 18.1 | 18.9 | 18.0 | 18.5 |
| LG06-6094 | 17.0 | 16.4 | 17.3 | 16.8 | 17.2 |
| K07-1544 | 18.5 | 18.8 | 18.8 | 18.5 | 19.0 |
| U05-226055 | 17.5 | 18.0 | 18.5 | 19.0 | 17.4 |
| U06-100052 | 16.7 | 17.3 | 17.8 | 17.6 | 18.0 |
| U06-206737 | 18.4 | 18.5 | 18.5 | 18.2 | 18.6 |

Preliminary Test IIIA, 2010

| 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. | IA4004 | Dairyland 99433 x A01-409003 | Fehr | F4 | |
| 5. | AR08-386026 | AR02-101002 x Garst-Agripro 97023-A99-03284 | Cianzio | F5 | BSR |
| 6. | AR09-292017 | HS1-3886 x AR05-250118 | Cianzio | F4 | |
| 7. | AR09-292085 | AR04-874018 x M00-114140 | Cianzio | F4 | BSR |
| 8. | AR09-292097 | LD02-5124 x AR02-101001 | Cianzio | F4 | BSR |
| 9. | AR09-392007 | LD02-5320 x AR03-361019 | Cianzio | F4 | SDS |
| 10. | AR09-392011 | Soygenetics F35815C x AR03-361033 | Cianzio | F4 | SDS |
| 11. | AR09-392023 | HS3-2523 x AR05-250117 | Cianzio | F4 | |
| 12. | AR09-392040 | Golden Harvest X 33802 x AR02-101001 | Cianzio | F4 | BSR |
| 13. | AR09-392042 | LD00-2817 x AR02-101001 | Cianzio | F4 | BSR |
| 14. | AR09-392050 | AR04-874018 x LD02-4485 | Cianzio | F4 | BSR |
| 15. | AR09-392055 | LD00-3309 x AR02-101001 | Cianzio | F4 | BSR |
| 16. | HS6-3967 | HS98-78262 x PI399073 | McHale | F4 | |
| 17. | HS7-4314 | HS1-3641 x HS1-7116 | McHale | F4 | |
| 18. | HS8-3317 | HS3-25233 x (Williams x PI424354) | McHale | F4 | |
| 19. | HS8-3582 | HS3-25233 x (Williams x PI424354) | McHale | F4 | |
| 20. | HS7W-190 | HS1-3641 x HS1-3907 | McHale | F4 | |
| 21. | HS8W-177 | HS1-3641 x HS1-7116 | McHale | F4 | |
| 22. | SS04-2262 | IA3018 x UNKNOWN | Sleper | F5 | LOW LIN |
| 23. | SS05-5646 | A3017 x UNKNOWN | Sleper | F5 | LOW LIN |
| 24. | SS05-5655 | A3017 x UNKNOWN | Sleper | F5 | LOW LIN |
| 25. | SS06-6869 | BIG BUBBA x U98-311442 | Sleper | F5 | |

PRELIMINARY TEST IIIA, 2010

DESCRIPTIVE AND DISEASE DATA

| Strain | Descriptive Code | <u>Shattering</u> | <u>Green Stem</u> | <u>PR</u> | | <u>FE</u> |
|--------------|------------------|--------------------------|------------------------------|------------------------|-----------|------------------|
| | | Score Manhattan KS | Score S. Charleston OH | Lafayette Race 4 | Race 7 | Laf. a rx. |
| IA3023 (III) | WLtTDYBII | 1.0 | 1.0 | S | S | S |
| IA3024 | PGTIYIbI | 3.0 | 2.0 | R* | R* | S |
| IA3048 (SCN) | PGTDYIbI | 2.0 | 1.5 | S | S | S |
| IA4004 | PTBDYYI | 2.0 | 1.0 | S | S | S |
| AR08-386026 | P+WTDYBII | 3.0 | 1.0 | S | S | S |
| AR09-292017 | WGBDYBbfI | 3.0 | 1.0 | S | S | S |
| AR09-292085 | WTTDYBII | 2.0 | 1.0 | S | S | S |
| AR09-292097 | P+WTDYBI+BrI | 3.0 | 1.0 | S | S | S |
| AR09-392007 | PTBDYBrI | 2.0 | 1.0 | S | S | S |
| AR09-392011 | WTTDYBrI | 3.0 | 1.0 | S | R* | S |
| AR09-392023 | WGT+BDYBfI | 3.0 | 1.5 | R* | H* | S |
| AR09-392040 | WTBDYBII | 2.0 | 1.0 | S | S | S |
| AR09-392042 | WTTDYBI+BrI | 3.0 | 1.0 | S | S | S |
| AR09-392050 | P+WTTDYBII | 2.0 | 1.0 | S | S | S |
| AR09-392055 | WTBDYBr+BII | 2.0 | 1.0 | S | S | S |
| HS6-3967 | WGTDYBII | 1.0 | 1.0 | R* | R* | S |
| HS7-4314 | WLtBDYIbI | 2.0 | 3.0 | R* | R* | - |
| HS8-3317 | WGTDYBfI | 2.0 | 1.5 | R* | R* | S |
| HS8-3582 | WGTDYBfI | 2.0 | 1.5 | R* | R* | S |
| HS7W-190 | PLtTDYBII | 2.0 | 1.0 | R* | R* | - |
| HS8W-177 | WTBDYBII | 2.0 | 1.0 | R* | R* | S |
| SS04-2262 | PTBDYBII | 1.0 | 2.5 | S | S | S |
| SS05-5646 | PGBDYIbI | 3.0 | 2.5 | S | R* | S |
| SS05-5655 | PGBDYIbI | 3.0 | 3.5 | S | R* | S |
| SS06-6869 | WGTDYYI | 2.0 | 2.0 | S | S | S |

PR: * = *P. sojae* inoc. Reaction NOT compatible with breeder's information about *Rps* Trait

FE: S = susceptible, - = lesions not detected, x = no data

PRELIMINARY TEST IIIA, 2010

REGIONAL SUMMARY

| No. of Tests Strain | Yield 11 bu/a | Rank 11 No. | Maturity 10 Date | Lodging 9 Score | Plant Height 8 In. | Seed Quality 7 Score | Seed Size 9 g/100 | Composition | |
|------------------------|---------------------|-------------------|------------------------|-----------------------|-----------------------------|-------------------------------|----------------------------|-------------------|---------------|
| | | | | | | | | Protein 7 % | Oil 7 % |
| IA3023 (III) | 62.4 | 2 | 9/22 | 1.4 | 34 | 1.2 | 13.2 | 33.1 | 18.8 |
| IA3024 | 60.0 | 4 | -3.5 | 1.4 | 34 | 1.6 | 13.9 | 32.4 | 18.9 |
| IA3048 (SCN) | 60.4 | 3 | 0.6 | 1.7 | 37 | 1.6 | 12.4 | 33.2 | 18.3 |
| IA4004 | 63.2 | 1 | 1.7 | 1.9 | 39 | 1.6 | 14.5 | 34.7 | 18.0 |
| AR08-386026 | 56.1 | 19 | -2.5 | 1.4 | 32 | 1.7 | 16.2 | 35.5 | 17.3 |
| AR09-292017 | 53.1 | 24 | -4.5 | 1.6 | 36 | 2.4 | 14.1 | 33.6 | 18.4 |
| AR09-292085 | 54.7 | 21 | -2.3 | 2.0 | 38 | 1.7 | 13.2 | 34.7 | 16.9 |
| AR09-292097 | 54.3 | 22 | -3.2 | 1.6 | 36 | 1.5 | 12.9 | 34.5 | 17.8 |
| AR09-392007 | 57.8 | 11 | -2.5 | 1.8 | 35 | 1.6 | 12.2 | 35.0 | 17.4 |
| AR09-392011 | 58.8 | 9 | 0.1 | 1.7 | 38 | 1.4 | 11.7 | 33.7 | 18.1 |
| AR09-392023 | 59.2 | 6 | -0.0 | 1.4 | 36 | 1.7 | 15.7 | 33.8 | 18.2 |
| AR09-392040 | 58.9 | 8 | -2.9 | 1.5 | 36 | 1.3 | 12.0 | 34.3 | 18.0 |
| AR09-392042 | 59.8 | 5 | -3.4 | 1.5 | 37 | 1.7 | 13.5 | 34.1 | 18.0 |
| AR09-392050 | 57.3 | 12 | -2.6 | 1.4 | 37 | 1.3 | 14.0 | 35.0 | 17.4 |
| AR09-392055 | 56.2 | 17 | -4.3 | 1.5 | 36 | 1.4 | 12.2 | 34.4 | 17.8 |
| HS6-3967 | 55.4 | 20 | 0.7 | 1.4 | 39 | 1.4 | 14.4 | 35.2 | 17.7 |
| HS7-4314 | 59.2 | 6 | 4.7 | 1.6 | 42 | 1.6 | 15.0 | 34.1 | 17.2 |
| HS8-3317 | 56.9 | 14 | 0.9 | 1.4 | 38 | 1.3 | 13.2 | 34.4 | 18.0 |
| HS8-3582 | 58.4 | 10 | 0.5 | 1.4 | 37 | 1.3 | 13.7 | 34.5 | 18.3 |
| HS7W-190 | 56.8 | 15 | 1.0 | 1.6 | 40 | 1.3 | 13.4 | 36.0 | 16.5 |
| HS8W-177 | 56.4 | 16 | 0.1 | 1.5 | 38 | 1.6 | 12.4 | 34.7 | 17.0 |
| SS04-2262 | 46.6 | 25 | 7.2 | 1.8 | 38 | 1.6 | 11.7 | 33.4 | 17.2 |
| SS05-5646 | 56.2 | 17 | 7.4 | 1.5 | 43 | 1.7 | 13.3 | 32.5 | 18.2 |
| SS05-5655 | 53.3 | 23 | 6.8 | 1.5 | 44 | 1.8 | 13.8 | 33.2 | 18.3 |
| SS06-6869 | 57.1 | 13 | 7.4 | 1.7 | 39 | 1.6 | 15.4 | 33.6 | 18.4 |

123.3 Days After Planting

PRELIMINARY TEST IIIA, 2010

YIELD (bu/a)

| Strain | Mean 11 Tests | Crawfordsville IA | Urbana IL | Lafayette IN | Ashland KS | Manhattan KS |
|---------------|---------------------|----------------------|--------------|-----------------|---------------|-----------------|
| IA3023 (III) | 62.4 | 54.5 | 63.8 | 53.2 | 58.0 | 53.8 |
| IA3024 | 60.0 | 42.7 | 56.2 | 48.7 | 53.0 | 51.3 |
| IA3048 (SCN) | 60.4 | 41.5 | 68.5 | 68.9 | 47.1 | 54.1 |
| IA4004 | 63.2 | 47.3 | 68.1 | 61.3 | 58.3 | 42.5 |
| AR08-386026 | 56.1 | 44.1 | 61.3 | 49.6 | 40.3 | 33.9 |
| AR09-292017 | 53.1 | 42.7 | 61.4 | 38.8 | 37.4 | 39.9 |
| AR09-292085 | 54.7 | 50.2 | 64.9 | 55.5 | 45.9 | 52.1 |
| AR09-292097 | 54.3 | 42.4 | 67.5 | 63.2 | 44.0 | 59.5 |
| AR09-392007 | 57.8 | 47.4 | 63.9 | 62.4 | 44.3 | 60.9 |
| AR09-392011 | 58.8 | 50.4 | 65.0 | 65.9 | 48.3 | 50.8 |
| AR09-392023 | 59.2 | 52.5 | 63.9 | 49.9 | 51.1 | 38.4 |
| AR09-392040 | 58.9 | 46.3 | 60.5 | 52.8 | 51.8 | 43.7 |
| AR09-392042 | 59.8 | 44.7 | 59.9 | 49.1 | 55.8 | 42.8 |
| AR09-392050 | 57.3 | 46.8 | 58.7 | 53.3 | 52.5 | 56.0 |
| AR09-392055 | 56.2 | 42.5 | 55.2 | 50.0 | 51.9 | 48.8 |
| HS6-3967 | 55.4 | 46.0 | 54.1 | 46.2 | 42.5 | 47.8 |
| HS7-4314 | 59.2 | 52.6 | 54.4 | 58.8 | 46.8 | 42.3 |
| HS8-3317 | 56.9 | 43.0 | 58.4 | 47.6 | 43.9 | 52.8 |
| HS8-3582 | 58.4 | 47.0 | 58.1 | 54.0 | 51.4 | 55.3 |
| HS7W-190 | 56.8 | 44.4 | 55.7 | 57.3 | 49.5 | 46.4 |
| HS8W-177 | 56.4 | 42.7 | 53.7 | 52.4 | 49.7 | 37.2 |
| SS04-2262 | 46.6 | 34.4 | 46.3 | 47.3 | 32.4 | 42.9 |
| SS05-5646 | 56.2 | 44.7 | 57.4 | 60.3 | 45.3 | 46.9 |
| SS05-5655 | 53.3 | 43.9 | 55.3 | 52.8 | 43.1 | 53.5 |
| SS06-6869 | 57.1 | 39.9 | 57.5 | 56.2 | 49.6 | 39.6 |
| Location Mean | | 45.4 | 59.6 | 54.2 | 47.7 | 47.7 |
| C.V. (%) | | 8.6 | 10.4 | 12.8 | 6.1 | 8.3 |
| L.S.D. (5%) | | 9.5 | 12.8 | 14.3 | 5.0 | 6.8 |
| Row Sp. (In.) | | 30 | 30 | 30 | 30 | 30 |
| Rows/Plot | | 4 | 4 | 4 | 4 | 4 |
| Reps | | 2 | 2 | 2 | 2 | 2 |

PRELIMINARY TEST IIIA, 2010

YIELD (bu/a)

| Strain | Columbia MO | Dewitt NE | Lincoln NE | North Bend NE | Hoytville OH | South Charleston OH |
|---------------|----------------|--------------|---------------|---------------------|-----------------|---------------------------|
| IA3023 (III) | 55.1 | 73.5 | 82.4 | 67.4 | 64.9 | 51.6 |
| IA3024 | 51.1 | 80.1 | 81.7 | 60.5 | 64.6 | 61.5 |
| IA3048 (SCN) | 50.5 | 67.1 | 70.2 | 68.4 | 62.5 | 59.5 |
| IA4004 | 60.1 | 76.4 | 80.1 | 67.3 | 54.2 | 59.4 |
| AR08-386026 | 46.3 | 76.4 | 75.3 | 53.4 | 64.8 | 49.7 |
| AR09-292017 | 42.6 | 68.2 | 68.0 | 59.0 | 61.9 | 51.0 |
| AR09-292085 | 33.9 | 55.1 | 66.6 | 70.2 | 52.9 | 51.4 |
| AR09-292097 | 43.2 | 59.3 | 63.5 | 56.4 | 54.0 | 49.9 |
| AR09-392007 | 52.4 | 66.9 | 71.4 | 63.9 | 58.0 | 47.5 |
| AR09-392011 | 47.5 | 68.9 | 73.2 | 58.6 | 61.1 | 48.8 |
| AR09-392023 | 47.1 | 68.8 | 75.6 | 62.5 | 61.9 | 59.1 |
| AR09-392040 | 51.7 | 77.6 | 73.5 | 58.9 | 61.2 | 55.0 |
| AR09-392042 | 56.6 | 73.9 | 78.0 | 63.7 | 62.4 | 53.5 |
| AR09-392050 | 47.6 | 68.3 | 74.9 | 54.1 | 61.5 | 55.5 |
| AR09-392055 | 50.0 | 76.2 | 70.4 | 60.0 | 54.6 | 51.3 |
| HS6-3967 | 47.8 | 70.2 | 72.1 | 58.2 | 60.1 | 56.8 |
| HS7-4314 | 48.0 | 67.8 | 77.9 | 70.0 | 52.7 | 62.7 |
| HS8-3317 | 47.6 | 66.6 | 74.9 | 65.1 | 61.0 | 60.6 |
| HS8-3582 | 50.4 | 67.9 | 75.6 | 59.5 | 63.1 | 56.6 |
| HS7W-190 | 47.7 | 62.2 | 71.7 | 62.5 | 58.5 | 58.6 |
| HS8W-177 | 48.0 | 63.2 | 79.1 | 63.5 | 58.1 | 53.5 |
| SS04-2262 | 46.4 | 54.1 | 68.2 | 56.4 | 38.5 | 42.5 |
| SS05-5646 | 50.7 | 63.0 | 77.9 | 54.9 | 54.9 | 53.0 |
| SS05-5655 | 50.3 | 57.4 | 73.4 | 58.2 | 51.8 | 46.8 |
| SS06-6869 | 59.4 | 62.3 | 73.8 | 60.0 | 56.7 | 55.6 |
| Location Mean | 49.3 | 67.7 | 74.0 | 61.3 | 58.2 | 54.1 |
| C.V. (%) | 7.4 | 8.4 | 6.7 | 7.6 | 6.8 | 8.0 |
| L.S.D. (5%) | 6.2 | 14.0 | 12.2 | 11.5 | 8.2 | 8.7 |
| Row Sp. (In.) | 30 | 30 | 30 | 30 | 7.5 | 15 |
| Rows/Plot | 4 | 4 | 4 | 4 | 8 | 6 |
| Reps | 2 | 2 | 2 | 2 | 2 | 2 |

PRELIMINARY TEST IIIA, 2010

YIELD RANK

| Strain | Yield Rank | Crawfordsville IA | Urbana IL | Lafayette IN | Ashland KS | Manhattan KS |
|--------------|------------|-------------------|-----------|--------------|------------|--------------|
| IA3023 (III) | 2 | 1 | 8 | 13 | 2 | 6 |
| IA3024 | 4 | 19 | 18 | 21 | 4 | 10 |
| IA3048 (SCN) | 3 | 23 | 1 | 1 | 14 | 5 |
| IA4004 | 1 | 7 | 2 | 5 | 1 | 19 |
| AR08-386026 | 19 | 15 | 10 | 19 | 23 | 25 |
| AR09-292017 | 24 | 18 | 9 | 25 | 24 | 21 |
| AR09-292085 | 21 | 5 | 5 | 10 | 16 | 9 |
| AR09-292097 | 22 | 22 | 3 | 3 | 19 | 2 |
| AR09-392007 | 11 | 6 | 6 | 4 | 18 | 1 |
| AR09-392011 | 9 | 4 | 4 | 2 | 13 | 11 |
| AR09-392023 | 6 | 3 | 6 | 18 | 9 | 23 |
| AR09-392040 | 8 | 10 | 11 | 14 | 7 | 16 |
| AR09-392042 | 5 | 13 | 12 | 20 | 3 | 18 |
| AR09-392050 | 12 | 9 | 13 | 12 | 5 | 3 |
| AR09-392055 | 17 | 21 | 21 | 17 | 6 | 12 |
| HS6-3967 | 20 | 11 | 23 | 24 | 22 | 13 |
| HS7-4314 | 6 | 2 | 22 | 7 | 15 | 20 |
| HS8-3317 | 14 | 17 | 14 | 22 | 20 | 8 |
| HS8-3582 | 10 | 8 | 15 | 11 | 8 | 4 |
| HS7W-190 | 15 | 14 | 19 | 8 | 12 | 15 |
| HS8W-177 | 16 | 20 | 24 | 16 | 10 | 24 |
| SS04-2262 | 25 | 25 | 25 | 23 | 25 | 17 |
| SS05-5646 | 17 | 12 | 17 | 6 | 17 | 14 |
| SS05-5655 | 23 | 16 | 20 | 14 | 21 | 7 |
| SS06-6869 | 13 | 24 | 16 | 9 | 11 | 22 |

PRELIMINARY TEST IIIA, 2010

YIELD RANK

| Strain | Columbia MO | Dewitt NE | Lincoln NE | North Bend NE | Hoytville OH | South Charleston OH |
|--------------|----------------|--------------|---------------|---------------------|-----------------|---------------------------|
| IA3023 (III) | 4 | 7 | 1 | 4 | 1 | 16 |
| IA3024 | 7 | 1 | 2 | 12 | 3 | 2 |
| IA3048 (SCN) | 9 | 15 | 21 | 3 | 5 | 4 |
| IA4004 | 1 | 3 | 3 | 5 | 20 | 5 |
| AR08-386026 | 22 | 3 | 10 | 25 | 2 | 21 |
| AR09-292017 | 24 | 12 | 23 | 16 | 7 | 19 |
| AR09-292085 | 25 | 24 | 24 | 1 | 22 | 17 |
| AR09-292097 | 23 | 22 | 25 | 21 | 21 | 20 |
| AR09-392007 | 5 | 16 | 19 | 7 | 16 | 23 |
| AR09-392011 | 19 | 9 | 16 | 18 | 11 | 22 |
| AR09-392023 | 20 | 10 | 8 | 10 | 7 | 6 |
| AR09-392040 | 6 | 2 | 14 | 17 | 10 | 12 |
| AR09-392042 | 3 | 6 | 5 | 8 | 6 | 13 |
| AR09-392050 | 17 | 11 | 11 | 24 | 9 | 11 |
| AR09-392055 | 12 | 5 | 20 | 13 | 19 | 18 |
| HS6-3967 | 15 | 8 | 17 | 19 | 13 | 8 |
| HS7-4314 | 13 | 14 | 6 | 2 | 23 | 1 |
| HS8-3317 | 17 | 17 | 11 | 6 | 12 | 3 |
| HS8-3582 | 10 | 13 | 8 | 15 | 4 | 9 |
| HS7W-190 | 16 | 21 | 18 | 10 | 14 | 7 |
| HS8W-177 | 13 | 18 | 4 | 9 | 15 | 13 |
| SS04-2262 | 21 | 25 | 22 | 21 | 25 | 25 |
| SS05-5646 | 8 | 19 | 6 | 23 | 18 | 15 |
| SS05-5655 | 11 | 23 | 15 | 19 | 24 | 24 |
| SS06-6869 | 2 | 20 | 13 | 13 | 17 | 10 |

PRELIMINARY TEST IIIA, 2010

MATURITY (date)

| Strain | Mean 10 Tests | Crawfordsville IA | Urbana IL | Lafayette IN | Ashland KS | Manhattan KS |
|----------------|---------------------|----------------------|--------------|-----------------|---------------|-----------------|
| IA3023 (III) | 9/22 | 9/30 | 9/18 | 9/20 | 10/1 | 9/23 |
| IA3024 | -3.5 | -4 | -5 | -4 | -8 | 0 |
| IA3048 (SCN) | 0.6 | 1 | 0 | 1 | -3 | 1 |
| IA4004 | 1.7 | 3 | 1 | 4 | 1 | 6 |
| AR08-386026 | -2.5 | -9 | -4 | -5 | 8 | 12 |
| AR09-292017 | -4.5 | -8 | -2 | -6 | -9 | -3 |
| AR09-292085 | -2.3 | -2 | -1 | -2 | -4 | -0 |
| AR09-292097 | -3.2 | -6 | -1 | -1 | -9 | -3 |
| AR09-392007 | -2.5 | -2 | 0 | -1 | -14 | -3 |
| AR09-392011 | 0.1 | -1 | 1 | 2 | 0 | -0 |
| AR09-392023 | -0.0 | -1 | 2 | 0 | -6 | 1 |
| AR09-392040 | -2.9 | -6 | -3 | -2 | -6 | -1 |
| AR09-392042 | -3.4 | -3 | -3 | -4 | -7 | 1 |
| AR09-392050 | -2.6 | -4 | 0 | -3 | -9 | 1 |
| AR09-392055 | -4.3 | -6 | -3 | -5 | -9 | -3 |
| HS6-3967 | 0.7 | 1 | 0 | 2 | -5 | 1 |
| HS7-4314 | 4.7 | 4 | 3 | 9 | 2 | 12 |
| HS8-3317 | 0.9 | -2 | 1 | 3 | -2 | 5 |
| HS8-3582 | 0.5 | 1 | 1 | 2 | -2 | 0 |
| HS7W-190 | 1.0 | 1 | 0 | 5 | -1 | 2 |
| HS8W-177 | 0.1 | -2 | 0 | 2 | -4 | 0 |
| SS04-2262 | 7.2 | 7 | 6 | 12 | 3 | 9 |
| SS05-5646 | 7.4 | 5 | 8 | 12 | 3 | 12 |
| SS05-5655 | 6.8 | 6 | 7 | 11 | 5 | 12 |
| SS06-6869 | 7.4 | 5 | 8 | 13 | 5 | 12 |
| Date Planted | 5/22 | 5/25 | 5/26 | 5/26 | 6/3 | 5/27 |
| Days to Mature | 123 | 128 | 115 | 117 | 120 | 119 |

PRELIMINARY TEST IIIA, 2010

MATURITY (date)

| Strain | Columbia MO | Dewitt NE | Lincoln NE | North Bend NE | Hoytville OH | South Charleston OH |
|----------------|----------------|--------------|---------------|---------------------|-----------------|---------------------------|
| IA3023 (III) | 9/16 | 9/22 | | 9/26 | 9/25 | 9/16 |
| IA3024 | 0 | -3 | | -5 | -5 | 2 |
| IA3048 (SCN) | 4 | -2 | | 0 | 0 | 5 |
| IA4004 | 0 | 1 | | 3 | -2 | 4 |
| AR08-386026 | 1 | -3 | | -4 | -6 | -2 |
| AR09-292017 | -1 | -6 | | -6 | -4 | 1 |
| AR09-292085 | -1 | -3 | | -3 | -4 | -1 |
| AR09-292097 | -1 | -4 | | -5 | -4 | 1 |
| AR09-392007 | 0 | -3 | | -2 | -4 | 2 |
| AR09-392011 | 0 | 1 | | -2 | -1 | 0 |
| AR09-392023 | 3 | -2 | | -3 | -1 | 7 |
| AR09-392040 | 0 | -3 | | -5 | -3 | 1 |
| AR09-392042 | -1 | -5 | | -4 | -4 | 0 |
| AR09-392050 | 0 | -3 | | -3 | -4 | 2 |
| AR09-392055 | 0 | -6 | | -5 | -4 | -1 |
| HS6-3967 | 2 | -1 | | 1 | 1 | 6 |
| HS7-4314 | 8 | 3 | | 4 | 1 | 9 |
| HS8-3317 | 1 | -1 | | 0 | 0 | 8 |
| HS8-3582 | 0 | -1 | | 1 | -1 | 4 |
| HS7W-190 | 2 | 0 | | 0 | -3 | 5 |
| HS8W-177 | 2 | 0 | | -2 | -1 | 5 |
| SS04-2262 | 14 | 5 | | 4 | 3 | 11 |
| SS05-5646 | 15 | 4 | | 5 | 3 | 12 |
| SS05-5655 | 12 | 5 | | 4 | 3 | 9 |
| SS06-6869 | 14 | 4 | | 5 | 3 | 10 |
| Date Planted | 5/26 | 5/6 | 5/19 | 5/17 | 5/29 | 5/16 |
| Days to Mature | 122 | 122 | | 132 | 119 | 123 |

PRELIMINARY TEST IIIA, 2010

LODGING (score)

| Strain | Mean 9 Tests | Crawfordsville IA | Urbana IL | Lafayette IN | Ashland KS | Manhattan KS |
|--------------|--------------------|----------------------|--------------|-----------------|---------------|-----------------|
| IA3023 (III) | 1.4 | 2.0 | 1.0 | 1.0 | 1.9 | 2.6 |
| IA3024 | 1.4 | 2.0 | 1.0 | 1.0 | 2.4 | 3.0 |
| IA3048 (SCN) | 1.7 | 2.0 | 1.5 | 1.0 | 2.5 | 2.7 |
| IA4004 | 1.9 | 2.0 | 2.0 | 1.3 | 2.1 | 2.5 |
| AR08-386026 | 1.4 | 1.8 | 1.0 | 1.0 | 1.9 | 3.1 |
| AR09-292017 | 1.6 | 2.0 | 1.5 | 1.0 | 1.9 | 2.5 |
| AR09-292085 | 2.0 | 2.0 | 1.8 | 1.3 | 2.9 | 4.6 |
| AR09-292097 | 1.6 | 1.8 | 1.5 | 1.0 | 1.8 | 3.8 |
| AR09-392007 | 1.8 | 2.0 | 1.5 | 1.0 | 3.3 | 3.1 |
| AR09-392011 | 1.7 | 2.0 | 1.8 | 1.3 | 1.8 | 3.2 |
| AR09-392023 | 1.4 | 2.0 | 1.0 | 1.0 | 1.8 | 1.9 |
| AR09-392040 | 1.5 | 2.0 | 1.0 | 1.0 | 1.9 | 2.9 |
| AR09-392042 | 1.5 | 1.8 | 1.0 | 1.0 | 2.9 | 2.5 |
| AR09-392050 | 1.4 | 1.8 | 1.0 | 1.0 | 2.0 | 2.4 |
| AR09-392055 | 1.5 | 2.0 | 1.0 | 1.0 | 2.5 | 2.6 |
| HS6-3967 | 1.4 | 1.8 | 1.0 | 1.0 | 2.4 | 3.0 |
| HS7-4314 | 1.6 | 2.0 | 1.0 | 1.0 | 2.2 | 2.3 |
| HS8-3317 | 1.4 | 2.0 | 1.0 | 1.0 | 2.1 | 2.6 |
| HS8-3582 | 1.4 | 1.8 | 1.0 | 1.0 | 1.8 | 2.4 |
| HS7W-190 | 1.6 | 2.0 | 1.0 | 1.0 | 1.9 | 3.0 |
| HS8W-177 | 1.5 | 2.0 | 1.0 | 1.0 | 2.9 | 2.6 |
| SS04-2262 | 1.8 | 2.0 | 1.5 | 1.3 | 2.0 | 3.6 |
| SS05-5646 | 1.5 | 2.0 | 1.0 | 1.0 | 2.1 | 2.4 |
| SS05-5655 | 1.5 | 2.0 | 1.0 | 1.0 | 1.9 | 3.0 |
| SS06-6869 | 1.7 | 2.0 | 1.8 | 1.0 | 2.3 | 2.3 |

PRELIMINARY TEST IIIA, 2010

LODGING (score)

| Strain | Columbia MO | Dewitt NE | Lincoln NE | North Bend NE | Hoytville OH | South Charleston OH |
|--------------|----------------|--------------|---------------|---------------------|-----------------|---------------------------|
| IA3023 (III) | 2.0 | 1.0 | | | 1.0 | 1.0 |
| IA3024 | 2.0 | 1.0 | | | 1.0 | 1.0 |
| IA3048 (SCN) | 3.0 | 1.0 | | | 1.0 | 1.5 |
| IA4004 | 3.0 | 2.0 | | | 1.0 | 1.5 |
| AR08-386026 | 2.0 | 1.0 | | | 1.0 | 1.5 |
| AR09-292017 | 3.0 | 1.0 | | | 1.0 | 1.5 |
| AR09-292085 | 4.0 | 1.5 | | | 1.0 | 1.5 |
| AR09-292097 | 3.0 | 1.0 | | | 1.0 | 1.5 |
| AR09-392007 | 3.0 | 1.0 | | | 1.0 | 1.5 |
| AR09-392011 | 3.5 | 1.0 | | | 1.0 | 1.3 |
| AR09-392023 | 2.0 | 1.0 | | | 1.0 | 1.5 |
| AR09-392040 | 2.5 | 1.0 | | | 1.0 | 1.5 |
| AR09-392042 | 2.0 | 1.0 | | | 1.0 | 1.3 |
| AR09-392050 | 2.0 | 1.0 | | | 1.0 | 1.5 |
| AR09-392055 | 2.0 | 1.0 | | | 1.0 | 1.3 |
| HS6-3967 | 1.0 | 1.0 | | | 1.0 | 1.8 |
| HS7-4314 | 3.0 | 1.0 | | | 1.0 | 1.5 |
| HS8-3317 | 1.5 | 1.0 | | | 1.0 | 1.5 |
| HS8-3582 | 2.0 | 1.0 | | | 1.0 | 1.3 |
| HS7W-190 | 2.5 | 1.0 | | | 1.0 | 2.3 |
| HS8W-177 | 2.0 | 1.0 | | | 1.0 | 1.3 |
| SS04-2262 | 3.5 | 2.0 | | | 1.0 | 1.3 |
| SS05-5646 | 2.5 | 1.0 | | | 1.0 | 1.5 |
| SS05-5655 | 2.5 | 1.0 | | | 1.0 | 1.5 |
| SS06-6869 | 3.0 | 1.0 | | | 1.0 | 1.5 |

PRELIMINARY TEST IIIA, 2010

PLANT HEIGHT (inches)

| Strain | Mean 8 Tests | Crawfordsville IA | Urbana IL | Lafayette IN | Ashland KS | Manhattan KS |
|--------------|--------------------|----------------------|--------------|-----------------|---------------|-----------------|
| IA3023 (III) | 34 | 33 | 35 | 40 | 43 | 39 |
| IA3024 | 34 | 27 | 33 | 38 | 39 | 36 |
| IA3048 (SCN) | 37 | 32 | 36 | 41 | 45 | 44 |
| IA4004 | 39 | 38 | 40 | 42 | 48 | 39 |
| AR08-386026 | 32 | 28 | 35 | 36 | 40 | 37 |
| AR09-292017 | 36 | 31 | 36 | 40 | 43 | 36 |
| AR09-292085 | 38 | 34 | 39 | 43 | 46 | 44 |
| AR09-292097 | 36 | 32 | 36 | 40 | 43 | 38 |
| AR09-392007 | 35 | 32 | 37 | 40 | 42 | 41 |
| AR09-392011 | 38 | 35 | 38 | 44 | 46 | 45 |
| AR09-392023 | 36 | 34 | 35 | 42 | 43 | 35 |
| AR09-392040 | 36 | 32 | 35 | 39 | 46 | 39 |
| AR09-392042 | 37 | 34 | 36 | 41 | 42 | 45 |
| AR09-392050 | 37 | 32 | 34 | 43 | 42 | 39 |
| AR09-392055 | 36 | 33 | 34 | 41 | 36 | 36 |
| HS6-3967 | 39 | 34 | 36 | 41 | 43 | 40 |
| HS7-4314 | 42 | 36 | 41 | 45 | 50 | 45 |
| HS8-3317 | 38 | 35 | 36 | 40 | 41 | 41 |
| HS8-3582 | 37 | 35 | 37 | 42 | 41 | 36 |
| HS7W-190 | 40 | 35 | 40 | 45 | 45 | 38 |
| HS8W-177 | 38 | 33 | 39 | 43 | 41 | 41 |
| SS04-2262 | 38 | 32 | 38 | 44 | 43 | 48 |
| SS05-5646 | 43 | 40 | 41 | 48 | 52 | 48 |
| SS05-5655 | 44 | 39 | 41 | 50 | 53 | 50 |
| SS06-6869 | 39 | 36 | 38 | 43 | 41 | 39 |

PRELIMINARY TEST IIIA, 2010

PLANT HEIGHT (inches)

| Strain | Columbia MO | Dewitt NE | Lincoln NE | North Bend NE | Hoytville OH | South Charleston OH |
|--------------|----------------|--------------|---------------|---------------------|-----------------|---------------------------|
| IA3023 (III) | | 29 | | | 29 | 29 |
| IA3024 | | 35 | | | 33 | 31 |
| IA3048 (SCN) | | 40 | | | 34 | 33 |
| IA4004 | | 43 | | | 32 | 33 |
| AR08-386026 | | 32 | | | 29 | 28 |
| AR09-292017 | | 37 | | | 33 | 34 |
| AR09-292085 | | 33 | | | 34 | 35 |
| AR09-292097 | | 37 | | | 31 | 33 |
| AR09-392007 | | 34 | | | 32 | 30 |
| AR09-392011 | | 43 | | | 33 | 29 |
| AR09-392023 | | 34 | | | 32 | 34 |
| AR09-392040 | | 40 | | | 31 | 31 |
| AR09-392042 | | 40 | | | 32 | 33 |
| AR09-392050 | | 37 | | | 33 | 36 |
| AR09-392055 | | 41 | | | 30 | 34 |
| HS6-3967 | | 42 | | | 35 | 39 |
| HS7-4314 | | 47 | | | 38 | 40 |
| HS8-3317 | | 44 | | | 34 | 35 |
| HS8-3582 | | 37 | | | 35 | 35 |
| HS7W-190 | | 42 | | | 36 | 34 |
| HS8W-177 | | 41 | | | 35 | 36 |
| SS04-2262 | | 47 | | | 31 | 33 |
| SS05-5646 | | 45 | | | 40 | 39 |
| SS05-5655 | | 47 | | | 40 | 41 |
| SS06-6869 | | 43 | | | 36 | 36 |

PRELIMINARY TEST IIIA, 2010

SEED QUALITY (score)

| Strain | Mean 7 Tests | Crawfordsville IA | Urbana IL | Lafayette IN | Ashland KS | Manhattan KS |
|--------------|--------------------|----------------------|--------------|-----------------|---------------|-----------------|
| IA3023 (III) | 1.2 | 1.0 | 1.0 | 1.0 | 2.0 | |
| IA3024 | 1.6 | 3.0 | 1.0 | 1.0 | 2.0 | |
| IA3048 (SCN) | 1.6 | 2.0 | 1.0 | 1.0 | 2.0 | |
| IA4004 | 1.6 | 2.0 | 1.0 | 1.5 | 2.0 | |
| AR08-386026 | 1.7 | 2.0 | 1.0 | 1.5 | 3.0 | |
| AR09-292017 | 2.4 | 2.0 | 2.0 | 3.0 | 3.0 | |
| AR09-292085 | 1.7 | 2.0 | 1.0 | 2.0 | 2.0 | |
| AR09-292097 | 1.5 | 1.0 | 1.0 | 1.5 | 2.0 | |
| AR09-392007 | 1.6 | 2.0 | 1.0 | 1.0 | 2.0 | |
| AR09-392011 | 1.4 | 2.0 | 1.0 | 1.0 | 2.0 | |
| AR09-392023 | 1.7 | 2.0 | 1.0 | 1.5 | 2.0 | |
| AR09-392040 | 1.3 | 1.0 | 1.0 | 1.0 | 2.0 | |
| AR09-392042 | 1.7 | 3.0 | 1.0 | 1.0 | 2.0 | |
| AR09-392050 | 1.3 | 1.0 | 1.0 | 1.0 | 2.0 | |
| AR09-392055 | 1.4 | 1.0 | 1.0 | 1.0 | 2.0 | |
| HS6-3967 | 1.4 | 2.0 | 1.0 | 1.0 | 2.0 | |
| HS7-4314 | 1.6 | 2.0 | 1.0 | 1.0 | 2.0 | |
| HS8-3317 | 1.3 | 1.0 | 1.0 | 1.0 | 2.0 | |
| HS8-3582 | 1.3 | 1.0 | 1.0 | 1.0 | 2.0 | |
| HS7W-190 | 1.3 | 1.0 | 1.0 | 1.0 | 2.0 | |
| HS8W-177 | 1.6 | 1.0 | 2.0 | 1.0 | 2.0 | |
| SS04-2262 | 1.6 | 1.0 | 1.0 | 1.0 | 2.0 | |
| SS05-5646 | 1.7 | 1.0 | 1.0 | 1.0 | 2.0 | |
| SS05-5655 | 1.8 | 2.0 | 1.0 | 1.5 | 2.0 | |
| SS06-6869 | 1.6 | 1.0 | 1.0 | 1.0 | 2.0 | |

PRELIMINARY TEST IIIA, 2010

SEED QUALITY (score)

| Strain | Columbia MO | Dewitt NE | Lincoln NE | North Bend NE | Hoytville OH | South Charleston OH |
|--------------|----------------|--------------|---------------|---------------------|-----------------|---------------------------|
| IA3023 (III) | | | | 1.0 | 1.0 | 1.5 |
| IA3024 | | | | 2.0 | 1.0 | 1.5 |
| IA3048 (SCN) | | | | 2.0 | 1.0 | 2.0 |
| IA4004 | | | | 2.0 | 1.0 | 2.0 |
| AR08-386026 | | | | 2.0 | 1.0 | 1.5 |
| AR09-292017 | | | | 2.0 | 2.0 | 3.0 |
| AR09-292085 | | | | 2.0 | 1.0 | 2.0 |
| AR09-292097 | | | | 2.0 | 1.0 | 2.0 |
| AR09-392007 | | | | 2.0 | 1.0 | 2.0 |
| AR09-392011 | | | | 1.0 | 1.0 | 2.0 |
| AR09-392023 | | | | 2.0 | 1.5 | 2.0 |
| AR09-392040 | | | | 1.0 | 1.0 | 2.0 |
| AR09-392042 | | | | 2.0 | 1.0 | 2.0 |
| AR09-392050 | | | | 1.0 | 1.0 | 2.0 |
| AR09-392055 | | | | 2.0 | 1.0 | 2.0 |
| HS6-3967 | | | | 1.0 | 1.0 | 1.5 |
| HS7-4314 | | | | 2.0 | 1.0 | 2.0 |
| HS8-3317 | | | | 1.0 | 1.0 | 2.0 |
| HS8-3582 | | | | 1.0 | 1.0 | 2.0 |
| HS7W-190 | | | | 1.0 | 1.0 | 2.0 |
| HS8W-177 | | | | 2.0 | 1.0 | 2.0 |
| SS04-2262 | | | | 2.0 | 2.5 | 2.0 |
| SS05-5646 | | | | 2.0 | 3.0 | 2.0 |
| SS05-5655 | | | | 2.0 | 2.0 | 2.0 |
| SS06-6869 | | | | 2.0 | 3.0 | 1.5 |

PRELIMINARY TEST IIIA, 2010

SEED SIZE (g/100)

| Strain | Mean 9 Tests | Crawfordsville IA | Urbana IL | Lafayette IN | Ashland KS | Manhattan KS |
|--------------|--------------------|----------------------|--------------|-----------------|---------------|-----------------|
| IA3023 (III) | 13.2 | 12.9 | 12.4 | 12.4 | 13.2 | |
| IA3024 | 13.9 | 14.1 | 12.0 | 13.6 | 13.7 | |
| IA3048 (SCN) | 12.4 | 12.0 | 11.7 | 12.4 | 12.1 | |
| IA4004 | 14.5 | 14.8 | 14.0 | 14.6 | 15.2 | |
| AR08-386026 | 16.2 | 15.2 | 14.4 | 14.4 | 20.9 | |
| AR09-292017 | 14.1 | 14.1 | 13.8 | 12.8 | 13.6 | |
| AR09-292085 | 13.2 | 13.2 | 12.9 | 13.0 | 13.8 | |
| AR09-292097 | 12.9 | 13.1 | 12.7 | 13.6 | 12.4 | |
| AR09-392007 | 12.2 | 14.7 | 10.9 | 11.8 | 11.5 | |
| AR09-392011 | 11.7 | 12.0 | 10.8 | 11.9 | 12.5 | |
| AR09-392023 | 15.7 | 15.9 | 15.8 | 16.0 | 16.5 | |
| AR09-392040 | 12.0 | 12.2 | 11.6 | 11.8 | 12.2 | |
| AR09-392042 | 13.5 | 13.4 | 12.2 | 13.0 | 14.7 | |
| AR09-392050 | 14.0 | 14.1 | 13.3 | 13.5 | 14.6 | |
| AR09-392055 | 12.2 | 12.1 | 11.4 | 11.9 | 12.7 | |
| HS6-3967 | 14.4 | 14.3 | 13.1 | 13.6 | 16.2 | |
| HS7-4314 | 15.0 | 15.1 | 13.4 | 14.8 | 15.6 | |
| HS8-3317 | 13.2 | 13.1 | 12.2 | 12.7 | 15.7 | |
| HS8-3582 | 13.7 | 13.9 | 12.9 | 13.6 | 15.3 | |
| HS7W-190 | 13.4 | 12.8 | 12.7 | 13.3 | 14.7 | |
| HS8W-177 | 12.4 | 12.1 | 11.4 | 12.6 | 13.9 | |
| SS04-2262 | 11.7 | 12.3 | 10.9 | 12.2 | 11.5 | |
| SS05-5646 | 13.3 | 13.8 | 12.0 | 13.2 | 13.9 | |
| SS05-5655 | 13.8 | 13.7 | 12.7 | 13.7 | 15.1 | |
| SS06-6869 | 15.4 | 15.0 | 15.3 | 15.3 | 17.4 | |

PRELIMINARY TEST IIIA, 2010

SEED SIZE (g/100)

| Strain | Columbia MO | Dewitt NE | Lincoln NE | North Bend NE | Hoytville OH | South Charleston OH |
|--------------|----------------|--------------|---------------|---------------------|-----------------|---------------------------|
| IA3023 (III) | | 14.0 | 14.3 | 13.3 | 12.6 | 13.7 |
| IA3024 | | 15.6 | 14.7 | 13.1 | 13.7 | 14.6 |
| IA3048 (SCN) | | 12.4 | 12.7 | 12.5 | 12.5 | 13.3 |
| IA4004 | | 14.9 | 14.4 | 15.1 | 13.1 | 14.4 |
| AR08-386026 | | 18.0 | 16.1 | 15.2 | 15.0 | 16.7 |
| AR09-292017 | | 14.5 | 13.6 | 15.2 | 14.5 | 15.0 |
| AR09-292085 | | 13.2 | 14.2 | 13.0 | 12.3 | 13.7 |
| AR09-292097 | | 13.1 | 12.8 | 11.9 | 12.1 | 14.1 |
| AR09-392007 | | 12.8 | 12.4 | 11.6 | 11.7 | 12.8 |
| AR09-392011 | | 11.8 | 12.7 | 10.7 | 11.8 | 11.5 |
| AR09-392023 | | 14.6 | 16.4 | 14.6 | 15.5 | 15.8 |
| AR09-392040 | | 11.7 | 12.4 | 11.5 | 12.2 | 12.8 |
| AR09-392042 | | 14.0 | 14.0 | 12.8 | 13.4 | 13.7 |
| AR09-392050 | | 12.8 | 14.8 | 14.0 | 14.0 | 15.2 |
| AR09-392055 | | 13.3 | 11.4 | 12.2 | 12.5 | 12.5 |
| HS6-3967 | | 13.7 | 16.3 | 14.6 | 13.4 | 14.9 |
| HS7-4314 | | 14.5 | 17.6 | 16.0 | 12.7 | 15.2 |
| HS8-3317 | | 13.4 | 13.0 | 13.3 | 12.0 | 13.4 |
| HS8-3582 | | 13.4 | 14.2 | 13.9 | 12.7 | 13.6 |
| HS7W-190 | | 13.1 | 14.5 | 13.8 | 11.9 | 13.8 |
| HS8W-177 | | 11.6 | 12.4 | 12.2 | 12.1 | 13.7 |
| SS04-2262 | | 11.3 | 13.1 | 11.4 | 10.8 | 11.5 |
| SS05-5646 | | 13.0 | 15.6 | 12.8 | 12.6 | 13.1 |
| SS05-5655 | | 13.4 | 16.3 | 12.9 | 13.0 | 13.8 |
| SS06-6869 | | 14.1 | 16.8 | 16.4 | 13.5 | 14.9 |

PRELIMINARY TEST IIIA, 2010

PROTEIN (%)

| Strain | Mean 7 Tests | Urbana IL | Crawfordsville IA | Lafayette IN | Ashland KS | North Bend NE | Hoytville OH | South Charleston OH |
|--------------|--------------------|--------------|----------------------|-----------------|---------------|---------------------|-----------------|---------------------------|
| IA3023 (III) | 33.1 | 32.2 | 34.2 | 33.3 | 34.3 | 33.6 | 33.0 | 30.9 |
| IA3024 | 32.4 | 31.7 | 33.2 | 32.5 | 34.1 | 34.3 | 32.2 | 29.0 |
| IA3048 (SCN) | 33.2 | 32.7 | 33.3 | 33.3 | 35.7 | 33.8 | 32.6 | 31.0 |
| IA4004 | 34.7 | 34.3 | 34.6 | 35.2 | 36.0 | 35.3 | 33.7 | 33.9 |
| AR08-386026 | 35.5 | 34.6 | 35.8 | 35.8 | 37.6 | 35.8 | 34.4 | 34.6 |
| AR09-292017 | 33.6 | 32.1 | 34.5 | 35.1 | 34.3 | 33.5 | 35.0 | 30.5 |
| AR09-292085 | 34.7 | 34.5 | 35.3 | 35.1 | 36.9 | 35.1 | 33.6 | 32.1 |
| AR09-292097 | 34.5 | 33.7 | 35.5 | 35.5 | 36.6 | 35.6 | 32.9 | 31.6 |
| AR09-392007 | 35.0 | 34.9 | 36.1 | 35.8 | 36.9 | 34.8 | 33.6 | 33.0 |
| AR09-392011 | 33.7 | 32.8 | 34.4 | 33.7 | 36.3 | 33.6 | 33.8 | 31.4 |
| AR09-392023 | 33.8 | 33.6 | 34.4 | 34.0 | 35.9 | 33.5 | 32.8 | 32.2 |
| AR09-392040 | 34.3 | 33.6 | 35.4 | 35.2 | 35.2 | 34.8 | 33.1 | 32.6 |
| AR09-392042 | 34.1 | 33.5 | 34.8 | 34.5 | 35.8 | 35.1 | 33.7 | 31.0 |
| AR09-392050 | 35.0 | 34.4 | 35.2 | 35.2 | 36.4 | 35.6 | 34.3 | 34.3 |
| AR09-392055 | 34.4 | 33.8 | 35.3 | 35.5 | 35.5 | 34.9 | 33.3 | 32.3 |
| HS6-3967 | 35.2 | 34.6 | 35.7 | 35.9 | 36.7 | 35.8 | 34.6 | 33.4 |
| HS7-4314 | 34.1 | 33.4 | 35.1 | 34.4 | 35.4 | 34.3 | 33.2 | 32.6 |
| HS8-3317 | 34.4 | 33.8 | 36.0 | 34.9 | 36.5 | 34.5 | 33.0 | 32.2 |
| HS8-3582 | 34.5 | 35.0 | 35.9 | 35.6 | 35.5 | 34.7 | 32.9 | 32.1 |
| HS7W-190 | 36.0 | 35.7 | 37.1 | 35.8 | 37.0 | 36.7 | 35.5 | 34.1 |
| HS8W-177 | 34.7 | 34.3 | 35.6 | 34.6 | 36.5 | 35.1 | 33.9 | 32.9 |
| SS04-2262 | 33.4 | 33.3 | 33.7 | 34.5 | 34.6 | 33.6 | 33.6 | 30.6 |
| SS05-5646 | 32.5 | 32.5 | 33.6 | 33.0 | 34.6 | 32.1 | 31.5 | 30.1 |
| SS05-5655 | 33.2 | 33.1 | 33.1 | 33.7 | 35.7 | 34.0 | 32.3 | 30.7 |
| SS06-6869 | 33.6 | 33.2 | 35.4 | 33.6 | 34.6 | 33.8 | 33.5 | 31.4 |

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

PRELIMINARY TEST IIIA, 2010

OIL (%)

| Strain | Mean 7 Tests | Urbana IL | Crawfordsville IA | Lafayette IN | Ashland KS | North Bend NE | Hoytville OH | South Charleston OH |
|--------------|--------------------|--------------|----------------------|-----------------|---------------|---------------------|-----------------|---------------------------|
| IA3023 (III) | 18.8 | 19.2 | 18.7 | 18.3 | 18.8 | 19.0 | 18.4 | 18.8 |
| IA3024 | 18.9 | 18.7 | 18.7 | 18.0 | 19.3 | 19.7 | 18.8 | 19.2 |
| IA3048 (SCN) | 18.3 | 18.3 | 18.2 | 18.1 | 18.2 | 18.4 | 18.3 | 18.7 |
| IA4004 | 18.0 | 17.2 | 17.6 | 17.9 | 18.5 | 18.6 | 17.9 | 18.1 |
| AR08-386026 | 17.3 | 17.4 | 16.7 | 17.3 | 16.6 | 17.6 | 17.3 | 18.0 |
| AR09-292017 | 18.4 | 18.4 | 17.9 | 18.5 | 18.7 | 18.4 | 18.6 | 18.5 |
| AR09-292085 | 16.9 | 16.4 | 16.1 | 16.5 | 17.9 | 16.9 | 16.7 | 17.8 |
| AR09-292097 | 17.8 | 18.1 | 17.7 | 17.3 | 17.9 | 17.6 | 17.5 | 18.7 |
| AR09-392007 | 17.4 | 17.4 | 16.8 | 17.4 | 17.8 | 17.5 | 17.6 | 17.4 |
| AR09-392011 | 18.1 | 18.1 | 18.0 | 17.9 | 18.1 | 17.9 | 18.8 | 18.2 |
| AR09-392023 | 18.2 | 18.7 | 17.9 | 17.6 | 19.3 | 18.0 | 18.1 | 17.8 |
| AR09-392040 | 18.0 | 17.6 | 18.1 | 18.0 | 18.7 | 17.6 | 18.0 | 18.3 |
| AR09-392042 | 18.0 | 17.6 | 17.7 | 18.2 | 19.1 | 17.3 | 17.4 | 18.5 |
| AR09-392050 | 17.4 | 16.7 | 17.5 | 17.0 | 17.4 | 17.8 | 17.5 | 17.6 |
| AR09-392055 | 17.8 | 17.6 | 16.8 | 18.0 | 18.5 | 17.6 | 17.8 | 18.0 |
| HS6-3967 | 17.7 | 17.1 | 17.4 | 18.1 | 18.4 | 17.8 | 17.7 | 17.3 |
| HS7-4314 | 17.2 | 16.9 | 17.3 | 17.1 | 18.2 | 17.3 | 17.0 | 16.8 |
| HS8-3317 | 18.0 | 17.5 | 17.7 | 17.5 | 19.1 | 18.3 | 17.8 | 18.0 |
| HS8-3582 | 18.3 | 18.5 | 18.2 | 18.3 | 18.6 | 18.0 | 18.0 | 18.4 |
| HS7W-190 | 16.5 | 16.1 | 16.0 | 16.4 | 18.0 | 16.3 | 16.6 | 16.4 |
| HS8W-177 | 17.0 | 16.0 | 16.9 | 16.6 | 18.0 | 16.8 | 16.9 | 17.4 |
| SS04-2262 | 17.2 | 16.6 | 17.2 | 16.5 | 17.9 | 17.2 | 17.2 | 17.9 |
| SS05-5646 | 18.2 | 17.8 | 18.0 | 17.7 | 18.5 | 18.8 | 18.4 | 18.4 |
| SS05-5655 | 18.3 | 18.2 | 18.4 | 18.3 | 18.4 | 18.1 | 18.3 | 18.6 |
| SS06-6869 | 18.4 | 18.1 | 19.0 | 17.8 | 18.7 | 18.0 | 18.3 | 18.5 |

Preliminary Test IIIB, 2010

| 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. | IA4004 | Dairyland 99433 x A01-409003 | Fehr | F4 | |
| 5. | LG06-2219 | A99-217006 x LG99-8929 | Nelson | F6 | Diversity |
| 6. | LG06-2284 | IA3023 x LG98-1605 | Nelson | F6 | Diversity |
| 7. | LG07-2309 | IA3023 x LG01-7728 | Nelson | F4 | Diversity |
| 8. | LG07-8914 | U97-201128 x LG97-9301 | Nelson | F6 | Diversity |
| 9. | LG08-3007 | H2885 x LG00-8301 | Nelson | F6 | Diversity |
| 10. | LG08-3009 | H2885 x LG00-8301 | Nelson | F6 | Diversity |
| 11. | K08-6247 | 133515 x IA3024 | Schapaugh | F4 | |
| 12. | U07-200233 | U01-390489 x (U00-429037 x Essex Rsv4) | Graef | F5 | SCN? |
| 13. | U07-200268 | U01-390489 x (U00-429037 x Essex Rsv4) | Graef | F5 | SCN? |
| 14. | U07-200271 | U01-390489 x (U00-429037 x Essex Rsv4) | Graef | F5 | SCN? |
| 15. | U07-200311 | U01-290931 x (U01-290931 x UP1C4-95-30) | Graef | BC1F5 | |
| 16. | U07-200317 | U01-290931 x (U01-290931 x UP1C4-95-30) | Graef | BC1F5 | |
| 17. | U07-200364 | U01-290931 x (U01-290931 x UP1C4-95-30) | Graef | BC1F5 | |
| 18. | U07-224096 | U02-100215 x NE 3202 | Graef | F5 | |
| 19. | U07-317222 | U02-240807 x U98-407345 | Graef | F5 | |
| 20. | U07-321229 | U02-100215 x NE 3202 | Graef | F5 | |
| 21. | U07-326227 | U01-390489 x PI437323 | Graef | F5 | SCN?, Rust? |
| 22. | U07-331228 | U01-390489 x U04-625036 | Graef | F5 | SCN?, |
| 23. | U07-332222 | U01-390489 x U04-625036 | Graef | F5 | SCN?, |
| 24. | U07-335229 | U01-390787 x U04-615036 | Graef | F5 | Dt, |
| 25. | U07-403002 | U01-390489 x (U01-390489 x Suweon 97) | Graef | BC1F5 | Rsv1-h, SCN? |
| 26. | U08-828035 | U01-390489 x (L86-1752 x PI 423972) | Graef | F5 | SCN?, Rust? |

PRELIMINARY TEST IIIB, 2010

DESCRIPTIVE AND DISEASE DATA

| Strain | Descriptive Code | <u>Shattering</u> | <u>Green Stem</u> | <u>PR</u> | | <u>FE</u> |
|--------------|------------------|--------------------------|------------------------------|------------------------|-----------|------------------|
| | | Score Manhattan KS | Score S. Charleston OH | Lafayette Race 4 | Race 7 | Laf. a rx. |
| IA3023 (III) | WLtTDYBII | 1.0 | 1.0 | S | S | S |
| IA3024 | PGTIYIbI | 3.0 | 2.0 | R* | R* | S |
| IA3048 (SCN) | PGTDYIbI | 2.0 | 1.0 | S | S | S |
| IA4004 | PTBDYYI | 2.0 | 1.0 | S | S | S |
| LG06-2219 | PTTDYBII | 2.0 | 1.0 | R* | R* | S |
| LG06-2284 | WLtBDYBII | 2.0 | 2.5 | S | S | S |
| LG07-2309 | PGBDYIbI | 2.0 | 2.0 | H* | S | S |
| LG07-8914 | WLtBDYBII | 2.0 | 1.5 | S | S | S |
| LG08-3007 | P+WGBDYIbI | 3.0 | 1.5 | S | R* | S |
| LG08-3009 | WGBDYBfI | 2.0 | 2.5 | S | R* | S |
| K08-6247 | P+WGTDYDbfI | 3.0 | 2.5 | R* | R* | S |
| U07-200233 | WLtBDIYBII | 4.0 | 1.0 | S | R* | S |
| U07-200268 | WT+GBDYBf+BII | 2.0 | 1.0 | S | S | S |
| U07-200271 | WGBDYHI | 2.0 | 2.0 | S | R* | S |
| U07-200311 | PGBDYBfI | 3.0 | 1.5 | R* | S | S |
| U07-200317 | P+WT+GSDYBII | 2.0 | 1.5 | S | H* | - |
| U07-200364 | PGBDYIbI | 2.0 | 1.0 | R* | S | S |
| U07-224096 | PGBDYHI | 2.0 | 1.0 | R* | R* | S |
| U07-317222 | P+WGBDYHI | 2.0 | 1.0 | S | H* | S |
| U07-321229 | PGBDYLgr+YI | 2.0 | 1.0 | R* | R* | S |
| U07-326227 | WGBDYIYI | 2.0 | 1.0 | S | S | S |
| U07-331228 | PT+GBDYBI+IbI | 2.0 | 1.0 | R* | R* | S |
| U07-332222 | PGB+TDYIbI | 2.0 | 1.5 | S | S | S |
| U07-335229 | PGBDYBfD | 2.0 | 1.0 | S | R* | S |
| U07-403002 | PGBDYGrI | 2.0 | 1.5 | S | R* | S |
| U08-828035 | WTBDYLbII | 2.0 | 1.0 | R* | R* | S |

PR: * = *P. sojae* inoc. Reaction NOT compatible with breeder's information about *Rps* Trait

FE: S = susceptible, - = lesions not detected, x = no data

PRELIMINARY TEST IIIB, 2009

REGIONAL SUMMARY

| No. of Tests Strain | Yield 11 bu/a | Rank 11 No. | Maturity 10 Date | Lodging 9 Score | Plant Height 8 In. | Seed Quality 7 Score | Seed Size 9 g/100 | Composition | |
|------------------------|---------------------|-------------------|------------------------|-----------------------|-----------------------------|-------------------------------|----------------------------|-------------------|---------------|
| | | | | | | | | Protein 7 % | Oil 7 % |
| IA3023 (III) | 61.7 | 3 | 9/22 | 1.4 | 34 | 1.2 | 13.2 | 32.8 | 18.6 |
| IA3024 | 59.0 | 8 | -2.2 | 1.2 | 33 | 1.6 | 13.5 | 32.0 | 19.1 |
| IA3048 (SCN) | 61.3 | 6 | 0.9 | 1.4 | 35 | 1.4 | 12.5 | 33.3 | 18.2 |
| IA4004 | 61.4 | 5 | 2.3 | 1.8 | 38 | 1.6 | 14.2 | 34.7 | 18.0 |
| LG06-2219 | 59.4 | 7 | 0.2 | 1.4 | 35 | 1.4 | 12.1 | 33.5 | 17.4 |
| LG06-2284 | 61.6 | 4 | 2.7 | 1.4 | 37 | 1.3 | 14.1 | 33.2 | 18.1 |
| LG07-2309 | 61.9 | 2 | 4.2 | 1.7 | 40 | 1.9 | 13.4 | 33.3 | 17.5 |
| LG07-8914 | 54.5 | 14 | 4.7 | 1.5 | 38 | 1.5 | 15.7 | 34.0 | 18.2 |
| LG08-3007 | 58.3 | 10 | 1.1 | 1.4 | 38 | 1.4 | 13.8 | 33.6 | 18.1 |
| LG08-3009 | 58.8 | 9 | 4.2 | 1.5 | 37 | 1.7 | 13.5 | 34.0 | 18.4 |
| K08-6247 | 62.8 | 1 | 5.5 | 1.4 | 35 | 1.7 | 13.1 | 33.1 | 18.4 |
| U07-200233 | 51.6 | 22 | 2.7 | 1.5 | 43 | 1.4 | 13.8 | 34.6 | 17.4 |
| U07-200268 | 50.2 | 24 | -0.5 | 1.4 | 33 | 1.8 | 14.3 | 35.0 | 17.3 |
| U07-200271 | 47.1 | 26 | -1.5 | 1.5 | 41 | 2.4 | 15.0 | 32.9 | 18.4 |
| U07-200311 | 51.8 | 21 | -0.9 | 1.6 | 35 | 1.9 | 15.0 | 31.9 | 19.4 |
| U07-200317 | 52.0 | 19 | 1.9 | 1.7 | 41 | 2.1 | 14.6 | 33.6 | 18.4 |
| U07-200364 | 54.7 | 11 | 1.4 | 1.4 | 41 | 1.9 | 14.3 | 31.3 | 18.7 |
| U07-224096 | 54.6 | 13 | -0.0 | 1.3 | 34 | 1.4 | 13.9 | 33.3 | 18.9 |
| U07-317222 | 54.7 | 11 | -2.9 | 1.8 | 41 | 1.5 | 13.9 | 33.7 | 18.7 |
| U07-321229 | 53.0 | 17 | -1.1 | 1.5 | 40 | 1.6 | 11.3 | 31.7 | 19.2 |
| U07-326227 | 51.9 | 20 | -3.4 | 1.9 | 41 | 1.4 | 13.1 | 32.4 | 19.0 |
| U07-331228 | 54.2 | 15 | -0.7 | 1.6 | 40 | 1.7 | 15.3 | 33.7 | 18.6 |
| U07-332222 | 48.7 | 25 | -0.4 | 1.4 | 33 | 1.9 | 13.7 | 34.2 | 17.7 |
| U07-335229 | 51.3 | 23 | -1.0 | 1.7 | 34 | 1.5 | 13.3 | 33.9 | 18.5 |
| U07-403002 | 53.8 | 16 | -1.7 | 1.3 | 40 | 2.3 | 15.3 | 31.9 | 18.6 |
| U08-828035 | 53.0 | 17 | 0.3 | 2.0 | 43 | 1.6 | 14.2 | 34.4 | 17.9 |

122.9 Days After Planting

PRELIMINARY TEST IIIB, 2009

YIELD (bu/a)

| Strain | Mean | Crawfordsville IA | Urbana IL | Lafayette IN | Ashland KS | Manhattan KS |
|---------------|-------------|----------------------|--------------|-----------------|---------------|-----------------|
| | 11 Tests | | | | | |
| IA3023 (III) | 61.7 | 51.9 | 53.1 | 64.9 | 55.3 | 61.4 |
| IA3024 | 59.0 | 42.1 | 51.1 | 56.3 | 55.6 | 61.6 |
| IA3048 (SCN) | 61.3 | 50.2 | 62.1 | 60.5 | 50.5 | 57.8 |
| IA4004 | 61.4 | 48.2 | 59.7 | 73.8 | 51.2 | 59.9 |
| LG06-2219 | 59.4 | 50.6 | 57.1 | 66.1 | 51.5 | 49.1 |
| | | | | | | |
| LG06-2284 | 61.6 | 45.3 | 56.7 | 61.5 | 47.0 | 48.3 |
| LG07-2309 | 61.9 | 45.2 | 60.2 | 62.8 | 49.7 | 59.3 |
| LG07-8914 | 54.5 | 45.8 | 57.8 | 57.5 | 38.9 | 38.8 |
| LG08-3007 | 58.3 | 48.1 | 59.0 | 59.5 | 46.8 | 50.5 |
| LG08-3009 | 58.8 | 48.9 | 56.4 | 60.1 | 45.5 | 43.1 |
| | | | | | | |
| K08-6247 | 62.8 | 43.5 | 59.9 | 62.8 | 56.8 | 43.9 |
| U07-200233 | 51.6 | 45.3 | 52.0 | 56.4 | 32.8 | 39.4 |
| U07-200268 | 50.2 | 41.3 | 54.0 | 48.5 | 31.0 | 30.1 |
| U07-200271 | 47.1 | 38.0 | 45.3 | 45.0 | 37.0 | 34.8 |
| U07-200311 | 51.8 | 31.0 | 51.7 | 50.3 | 26.0 | 29.5 |
| | | | | | | |
| U07-200317 | 52.0 | 40.6 | 59.3 | 48.0 | 36.6 | 37.7 |
| U07-200364 | 54.7 | 43.0 | 52.2 | 56.8 | 43.1 | 40.2 |
| U07-224096 | 54.6 | 43.1 | 52.8 | 40.9 | 37.7 | 39.1 |
| U07-317222 | 54.7 | 44.0 | 55.8 | 55.2 | 45.6 | 41.2 |
| U07-321229 | 53.0 | 27.2 | 49.3 | 46.0 | 46.8 | 43.8 |
| | | | | | | |
| U07-326227 | 51.9 | 37.3 | 52.8 | 38.9 | 46.0 | 45.7 |
| U07-331228 | 54.2 | 42.2 | 53.1 | 59.7 | 44.2 | 46.5 |
| U07-332222 | 48.7 | 35.5 | 50.2 | 40.3 | 36.7 | 38.1 |
| U07-335229 | 51.3 | 33.6 | 51.7 | 56.3 | 45.0 | 42.7 |
| U07-403002 | 53.8 | 37.7 | 53.1 | 47.6 | 36.8 | 41.0 |
| U08-828035 | 53.0 | 46.4 | 55.2 | 57.3 | 43.3 | 44.5 |
| | | | | | | |
| Location Mean | | 42.5 | 54.7 | 55.1 | 43.7 | 44.9 |
| C.V. (%) | | 11.6 | 8.4 | 8.6 | 4.5 | 8.6 |
| L.S.D. (5%) | | 12.0 | 9.5 | 9.7 | 3.4 | 6.6 |
| 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, 2009

YIELD (bu/a)

| Strain | Columbia MO | Dewitt NE | Lincoln NE | North Bend NE | Hoytville OH | South Charleston OH |
|---------------|----------------|--------------|---------------|---------------------|-----------------|---------------------------|
| IA3023 (III) | 50.8 | 80.9 | 84.4 | 68.4 | 55.9 | 51.6 |
| IA3024 | 48.9 | 82.8 | 81.0 | 58.3 | 52.5 | 61.5 |
| IA3048 (SCN) | 58.5 | 72.9 | 81.3 | 64.9 | 57.9 | 54.1 |
| IA4004 | 50.7 | 78.7 | 80.7 | 62.1 | 53.5 | 54.9 |
| LG06-2219 | 51.9 | 65.3 | 84.7 | 60.0 | 55.5 | 51.0 |
| LG06-2284 | 56.4 | 72.8 | 85.0 | 67.1 | 61.6 | 62.4 |
| LG07-2309 | 62.1 | 71.2 | 84.3 | 65.1 | 57.4 | 61.1 |
| LG07-8914 | 43.2 | 68.7 | 63.2 | 59.2 | 59.2 | 51.5 |
| LG08-3007 | 53.0 | 70.4 | 75.0 | 60.3 | 60.2 | 50.9 |
| LG08-3009 | 51.0 | 70.4 | 80.0 | 62.8 | 57.1 | 56.0 |
| K08-6247 | 61.1 | 80.1 | 89.1 | 61.7 | 59.1 | 54.2 |
| U07-200233 | 42.9 | 66.5 | 64.7 | 53.4 | 54.3 | 47.5 |
| U07-200268 | 43.5 | 64.9 | 63.3 | 51.5 | 53.5 | 50.0 |
| U07-200271 | 39.0 | 56.8 | 62.4 | 60.4 | 44.5 | 42.9 |
| U07-200311 | 40.1 | 63.4 | 77.1 | 61.0 | 64.9 | 52.2 |
| U07-200317 | 40.2 | 61.5 | 61.8 | 60.2 | 54.9 | 56.9 |
| U07-200364 | 58.1 | 61.5 | 70.3 | 58.4 | 54.5 | 49.2 |
| U07-224096 | 51.9 | 68.9 | 81.3 | 54.7 | 59.8 | 54.7 |
| U07-317222 | 42.1 | 70.4 | 71.2 | 52.7 | 56.5 | 53.0 |
| U07-321229 | 50.9 | 76.9 | 75.0 | 54.1 | 57.6 | 46.5 |
| U07-326227 | 51.3 | 70.6 | 67.7 | 51.7 | 51.3 | 51.5 |
| U07-331228 | 41.9 | 71.6 | 76.0 | 48.9 | 53.2 | 51.2 |
| U07-332222 | 37.3 | 58.2 | 69.6 | 58.2 | 45.3 | 55.4 |
| U07-335229 | 44.7 | 61.1 | 63.5 | 52.0 | 59.6 | 45.6 |
| U07-403002 | 55.8 | 63.5 | 74.0 | 65.2 | 52.1 | 51.8 |
| U08-828035 | 43.6 | 66.8 | 70.1 | 53.6 | 49.8 | 44.1 |
| Location Mean | 48.9 | 69.1 | 74.5 | 58.7 | 55.5 | 52.4 |
| C.V. (%) | 6.5 | 6.2 | 5.0 | 7.0 | 7.0 | 8.0 |
| L.S.D. (5%) | 5.5 | 10.5 | 9.1 | 10.0 | 8.0 | 8.7 |
| Row Sp. (In.) | 30 | 30 | 30 | 30 | 7.5 | 15 |
| Rows/Plot | 4 | 4 | 4 | 4 | 8 | 6 |
| Reps | 2 | 2 | 2 | 2 | 2 | 2 |

*Data not included in mean.

PRELIMINARY TEST IIIB, 2009

YIELD RANK

| Strain | Yield Rank | Crawfordsville IA | Urbana IL | Lafayette IN | Ashland KS | Manhattan KS |
|--------------|------------|-------------------|-----------|--------------|------------|--------------|
| IA3023 (III) | 3 | 1 | 14 | 3 | 3 | 2 |
| IA3024 | 8 | 17 | 23 | 15 | 2 | 1 |
| IA3048 (SCN) | 6 | 3 | 1 | 7 | 6 | 5 |
| IA4004 | 5 | 5 | 4 | 1 | 5 | 3 |
| LG06-2219 | 7 | 2 | 8 | 2 | 4 | 7 |
| LG06-2284 | 4 | 10 | 9 | 6 | 8 | 8 |
| LG07-2309 | 2 | 11 | 2 | 4 | 7 | 4 |
| LG07-8914 | 14 | 8 | 7 | 11 | 18 | 21 |
| LG08-3007 | 10 | 6 | 6 | 10 | 9 | 6 |
| LG08-3009 | 9 | 4 | 10 | 8 | 13 | 14 |
| K08-6247 | 1 | 13 | 3 | 4 | 1 | 12 |
| U07-200233 | 22 | 9 | 20 | 14 | 24 | 19 |
| U07-200268 | 24 | 18 | 13 | 19 | 25 | 25 |
| U07-200271 | 26 | 20 | 26 | 23 | 20 | 24 |
| U07-200311 | 21 | 25 | 21 | 18 | 26 | 26 |
| U07-200317 | 19 | 19 | 5 | 20 | 23 | 23 |
| U07-200364 | 11 | 15 | 19 | 13 | 17 | 18 |
| U07-224096 | 13 | 14 | 17 | 24 | 19 | 20 |
| U07-317222 | 11 | 12 | 11 | 17 | 12 | 16 |
| U07-321229 | 17 | 26 | 25 | 22 | 9 | 13 |
| U07-326227 | 20 | 22 | 18 | 26 | 11 | 10 |
| U07-331228 | 15 | 16 | 14 | 9 | 15 | 9 |
| U07-332222 | 25 | 23 | 24 | 25 | 22 | 22 |
| U07-335229 | 23 | 24 | 21 | 15 | 14 | 15 |
| U07-403002 | 16 | 21 | 14 | 21 | 21 | 17 |
| U08-828035 | 17 | 7 | 12 | 12 | 16 | 11 |

PRELIMINARY TEST IIIB, 2009

YIELD RANK

| Strain | Columbia MO | Dewitt NE | Lincoln NE | North Bend NE | Hoytville OH | South Charleston OH |
|--------------|----------------|--------------|---------------|---------------------|-----------------|---------------------------|
| IA3023 (III) | 13 | 2 | 4 | 1 | 13 | 14 |
| IA3024 | 15 | 1 | 8 | 16 | 21 | 2 |
| IA3048 (SCN) | 3 | 6 | 6 | 5 | 8 | 10 |
| IA4004 | 14 | 4 | 9 | 7 | 18 | 7 |
| LG06-2219 | 8 | 18 | 3 | 13 | 14 | 18 |
| LG06-2284 | 5 | 7 | 2 | 2 | 2 | 1 |
| LG07-2309 | 1 | 9 | 5 | 4 | 10 | 3 |
| LG07-8914 | 19 | 15 | 24 | 14 | 6 | 15 |
| LG08-3007 | 7 | 11 | 13 | 11 | 3 | 19 |
| LG08-3009 | 11 | 11 | 10 | 6 | 11 | 5 |
| K08-6247 | 2 | 3 | 1 | 8 | 7 | 9 |
| U07-200233 | 20 | 17 | 21 | 21 | 17 | 22 |
| U07-200268 | 18 | 19 | 23 | 25 | 18 | 20 |
| U07-200271 | 25 | 26 | 25 | 10 | 26 | 26 |
| U07-200311 | 24 | 21 | 11 | 9 | 1 | 12 |
| U07-200317 | 23 | 22 | 26 | 12 | 15 | 4 |
| U07-200364 | 4 | 23 | 17 | 15 | 16 | 21 |
| U07-224096 | 8 | 14 | 6 | 18 | 4 | 8 |
| U07-317222 | 21 | 11 | 16 | 22 | 12 | 11 |
| U07-321229 | 12 | 5 | 13 | 19 | 9 | 23 |
| U07-326227 | 10 | 10 | 20 | 24 | 23 | 15 |
| U07-331228 | 22 | 8 | 12 | 26 | 20 | 17 |
| U07-332222 | 26 | 25 | 19 | 17 | 25 | 6 |
| U07-335229 | 16 | 24 | 22 | 23 | 5 | 24 |
| U07-403002 | 6 | 20 | 15 | 3 | 22 | 13 |
| U08-828035 | 17 | 16 | 18 | 20 | 24 | 25 |

PRELIMINARY TEST IIIB, 2009

MATURITY (date)

| Strain | Mean 10 Tests | Crawfordsville IA | Urbana IL | Lafayette IN | Ashland KS | Manhattan KS |
|----------------|---------------------|----------------------|--------------|-----------------|---------------|-----------------|
| IA3023 (III) | 9/22 | 9/30 | 9/17 | 9/22 | 9/27 | 9/25 |
| IA3024 | -2.2 | -4 | -3 | -4 | -2 | -5 |
| IA3048 (SCN) | 0.9 | 1 | 2 | -1 | 1 | -0 |
| IA4004 | 2.3 | 3 | 2 | 3 | 2 | 2 |
| LG06-2219 | 0.2 | 1 | 1 | 0 | -1 | -1 |
| LG06-2284 | 2.7 | 1 | 3 | 4 | 4 | 3 |
| LG07-2309 | 4.2 | -1 | 4 | 4 | 6 | 0 |
| LG07-8914 | 4.7 | 3 | 8 | 5 | 10 | 12 |
| LG08-3007 | 1.1 | 1 | 3 | 0 | 2 | -0 |
| LG08-3009 | 4.2 | 3 | 6 | 5 | 8 | 3 |
| K08-6247 | 5.5 | 4 | 6 | 5 | 10 | -0 |
| U07-200233 | 2.7 | 4 | 3 | 4 | 3 | 1 |
| U07-200268 | -0.5 | -1 | 1 | -2 | -1 | -1 |
| U07-200271 | -1.5 | -2 | 0 | -4 | -5 | -4 |
| U07-200311 | -0.9 | -5 | 1 | -4 | -3 | -2 |
| U07-200317 | 1.9 | -1 | 5 | 2 | 1 | -1 |
| U07-200364 | 1.4 | -1 | 2 | 0 | 5 | 1 |
| U07-224096 | -0.0 | -1 | 1 | -1 | -3 | -4 |
| U07-317222 | -2.9 | -5 | -3 | -3 | -3 | -2 |
| U07-321229 | -1.1 | -6 | -1 | -2 | 1 | -1 |
| U07-326227 | -3.4 | -6 | -4 | -7 | -5 | -2 |
| U07-331228 | -0.7 | -3 | 0 | -3 | -1 | -3 |
| U07-332222 | -0.4 | -5 | 2 | -3 | -2 | -1 |
| U07-335229 | -1.0 | -3 | 0 | -3 | -3 | -3 |
| U07-403002 | -1.7 | -4 | -1 | -2 | -6 | -5 |
| U08-828035 | 0.3 | 1 | 2 | 0 | 1 | -1 |
| Date Planted | 5/22 | 5/25 | 5/26 | 5/26 | 6/3 | 5/27 |
| Days to Mature | 123 | 128 | 114 | 119 | 116 | 121 |

PRELIMINARY TEST IIIB, 2009

MATURITY (date)

| Strain | Columbia MO | Dewitt NE | Lincoln NE | North Bend NE | Hoytville OH | South Charleston OH |
|----------------|----------------|--------------|---------------|---------------------|-----------------|---------------------------|
| IA3023 (III) | 9/17 | 9/23 | | 9/26 | 9/23 | 9/16 |
| IA3024 | -2 | -3 | | -4 | 0 | 2 |
| IA3048 (SCN) | 5 | -2 | | -2 | 3 | 2 |
| IA4004 | 5 | 1 | | 0 | 1 | 4 |
| LG06-2219 | 0 | -1 | | -1 | 1 | 3 |
| LG06-2284 | 4 | -3 | | 0 | 3 | 9 |
| LG07-2309 | 6 | 3 | | 2 | 5 | 9 |
| LG07-8914 | 6 | 1 | | 1 | 3 | 6 |
| LG08-3007 | 4 | -3 | | -3 | 2 | 5 |
| LG08-3009 | 6 | -1 | | 0 | 3 | 8 |
| K08-6247 | 7 | 2 | | 3 | 5 | 8 |
| U07-200233 | 5 | -1 | | 0 | 1 | 6 |
| U07-200268 | 2 | -4 | | -2 | 1 | 2 |
| U07-200271 | 2 | -5 | | -3 | 0 | 3 |
| U07-200311 | 2 | -2 | | -2 | 2 | 2 |
| U07-200317 | 2 | 0 | | -1 | 2 | 7 |
| U07-200364 | 2 | 0 | | -2 | 4 | 3 |
| U07-224096 | 4 | -3 | | -3 | 2 | 4 |
| U07-317222 | -3 | -5 | | -3 | -3 | 1 |
| U07-321229 | 1 | -2 | | -3 | 1 | 1 |
| U07-326227 | -1 | -3 | | -5 | -3 | 2 |
| U07-331228 | 2 | -3 | | -3 | 2 | 2 |
| U07-332222 | 0 | -1 | | -2 | 3 | 4 |
| U07-335229 | -1 | 1 | | -3 | 1 | 2 |
| U07-403002 | -1 | -4 | | -3 | 1 | 4 |
| U08-828035 | 1 | -4 | | 0 | -1 | 3 |
| Date Planted | 5/26 | 5/6 | 5/19 | 5/17 | 5/29 | 5/16 |
| Days to Mature | 114 | 140 | | 132 | 117 | 123 |

PRELIMINARY TEST IIIB, 2009

LODGING (score)

| Strain | Mean 9 Tests | Crawfordsville IA | Urbana IL | Lafayette IN | Ashland KS | Manhattan KS |
|--------------|--------------------|----------------------|--------------|-----------------|---------------|-----------------|
| IA3023 (III) | 1.4 | 2.0 | 1.0 | 1.0 | 2.1 | 2.0 |
| IA3024 | 1.2 | 1.5 | 1.0 | 1.0 | 2.2 | 3.3 |
| IA3048 (SCN) | 1.4 | 2.0 | 1.0 | 1.0 | 2.1 | 2.7 |
| IA4004 | 1.8 | 2.0 | 1.8 | 1.5 | 2.0 | 3.2 |
| LG06-2219 | 1.4 | 2.0 | 1.0 | 1.0 | 2.0 | 3.7 |
| LG06-2284 | 1.4 | 1.5 | 1.0 | 1.0 | 2.0 | 3.4 |
| LG07-2309 | 1.7 | 2.5 | 1.8 | 1.0 | 2.0 | 4.0 |
| LG07-8914 | 1.5 | 1.8 | 1.0 | 1.0 | 1.9 | 3.2 |
| LG08-3007 | 1.4 | 1.8 | 1.0 | 1.0 | 1.8 | 3.3 |
| LG08-3009 | 1.5 | 2.0 | 1.0 | 1.0 | 1.9 | 3.2 |
| K08-6247 | 1.4 | 1.8 | 1.0 | 1.0 | 2.0 | 4.3 |
| U07-200233 | 1.5 | 2.3 | 1.0 | 1.0 | 2.0 | 2.7 |
| U07-200268 | 1.4 | 1.5 | 1.0 | 1.0 | 2.0 | 2.6 |
| U07-200271 | 1.5 | 2.0 | 1.0 | 1.0 | 2.0 | 3.0 |
| U07-200311 | 1.6 | 2.0 | 1.0 | 1.0 | 3.1 | 3.5 |
| U07-200317 | 1.7 | 2.0 | 1.8 | 1.0 | 1.9 | 3.3 |
| U07-200364 | 1.4 | 2.0 | 1.0 | 1.0 | 2.1 | 2.1 |
| U07-224096 | 1.3 | 1.5 | 1.0 | 1.0 | 1.9 | 3.1 |
| U07-317222 | 1.8 | 2.3 | 1.8 | 1.5 | 2.0 | 2.9 |
| U07-321229 | 1.5 | 2.0 | 1.3 | 1.0 | 2.0 | 3.2 |
| U07-326227 | 1.9 | 2.0 | 1.5 | 2.0 | 2.5 | 4.1 |
| U07-331228 | 1.6 | 1.8 | 1.5 | 1.5 | 1.9 | 2.9 |
| U07-332222 | 1.4 | 1.5 | 1.0 | 1.0 | 2.2 | 2.0 |
| U07-335229 | 1.7 | 2.0 | 1.0 | 1.3 | 2.0 | 2.1 |
| U07-403002 | 1.3 | 1.5 | 1.0 | 1.0 | 1.9 | 3.6 |
| U08-828035 | 2.0 | 2.5 | 2.3 | 1.8 | 3.2 | 3.0 |

PRELIMINARY TEST IIIB, 2009

LODGING (score)

| Strain | Columbia MO | Dewitt NE | Lincoln NE | North Bend NE | Hoytville OH | South Charleston OH |
|--------------|----------------|--------------|---------------|---------------------|-----------------|---------------------------|
| IA3023 (III) | 2.0 | 1.0 | | | 1.0 | 1.0 |
| IA3024 | 1.0 | 1.0 | | | 1.0 | 1.0 |
| IA3048 (SCN) | 2.0 | 1.0 | | | 1.0 | 1.0 |
| IA4004 | 2.5 | 2.0 | | | 1.0 | 1.5 |
| LG06-2219 | 2.0 | 1.0 | | | 1.0 | 1.5 |
| LG06-2284 | 2.5 | 1.0 | | | 1.0 | 1.5 |
| LG07-2309 | 2.5 | 1.0 | | | 1.0 | 1.5 |
| LG07-8914 | 2.5 | 1.0 | | | 1.0 | 1.5 |
| LG08-3007 | 2.0 | 1.0 | | | 1.0 | 1.3 |
| LG08-3009 | 2.5 | 1.0 | | | 1.0 | 1.3 |
| K08-6247 | 2.5 | 1.0 | | | 1.0 | 1.0 |
| U07-200233 | 2.5 | 1.0 | | | 1.0 | 1.3 |
| U07-200268 | 2.0 | 1.0 | | | 1.0 | 1.5 |
| U07-200271 | 2.5 | 1.0 | | | 1.0 | 1.3 |
| U07-200311 | 2.0 | 1.0 | | | 1.0 | 1.5 |
| U07-200317 | 3.0 | 1.0 | | | 1.0 | 1.8 |
| U07-200364 | 2.0 | 1.0 | | | 1.0 | 1.0 |
| U07-224096 | 2.0 | 1.0 | | | 1.0 | 1.3 |
| U07-317222 | 3.0 | 1.0 | | | 1.0 | 1.8 |
| U07-321229 | 2.0 | 1.5 | | | 1.0 | 1.5 |
| U07-326227 | 2.5 | 2.0 | | | 1.0 | 2.0 |
| U07-331228 | 2.0 | 1.5 | | | 1.0 | 1.5 |
| U07-332222 | 2.0 | 1.0 | | | 1.0 | 1.3 |
| U07-335229 | 2.5 | 2.0 | | | 1.0 | 1.8 |
| U07-403002 | 2.0 | 1.0 | | | 1.0 | 1.3 |
| U08-828035 | 2.5 | 1.0 | | | 1.0 | 2.0 |

PRELIMINARY TEST IIIB, 2009

PLANT HEIGHT (inches)

| Strain | Mean 8 Tests | Crawfordsville IA | Urbana IL | Lafayette IN | Ashland KS | Manhattan KS |
|--------------|--------------------|----------------------|--------------|-----------------|---------------|-----------------|
| IA3023 (III) | 34 | 31 | 33 | 40 | 37 | 45 |
| IA3024 | 33 | 28 | 30 | 37 | 39 | 47 |
| IA3048 (SCN) | 35 | 31 | 35 | 38 | 40 | 42 |
| IA4004 | 38 | 32 | 37 | 42 | 44 | 46 |
| LG06-2219 | 35 | 32 | 34 | 40 | 38 | 34 |
| LG06-2284 | 37 | 34 | 37 | 42 | 39 | 49 |
| LG07-2309 | 40 | 34 | 40 | 44 | 43 | 42 |
| LG07-8914 | 38 | 33 | 39 | 43 | 40 | 51 |
| LG08-3007 | 38 | 32 | 37 | 42 | 40 | 44 |
| LG08-3009 | 37 | 33 | 37 | 43 | 39 | 47 |
| K08-6247 | 35 | 30 | 35 | 39 | 40 | 39 |
| U07-200233 | 43 | 38 | 43 | 48 | 48 | 54 |
| U07-200268 | 33 | 24 | 32 | 39 | 36 | 40 |
| U07-200271 | 41 | 33 | 41 | 48 | 43 | 46 |
| U07-200311 | 35 | 29 | 36 | 41 | 40 | 39 |
| U07-200317 | 41 | 35 | 41 | 46 | 47 | 47 |
| U07-200364 | 41 | 33 | 43 | 45 | 48 | 42 |
| U07-224096 | 34 | 28 | 34 | 34 | 38 | 44 |
| U07-317222 | 41 | 33 | 43 | 44 | 46 | 47 |
| U07-321229 | 40 | 32 | 39 | 46 | 41 | 49 |
| U07-326227 | 41 | 34 | 41 | 45 | 49 | 55 |
| U07-331228 | 40 | 33 | 39 | 43 | 45 | 43 |
| U07-332222 | 33 | 24 | 29 | 32 | 40 | 28 |
| U07-335229 | 34 | 25 | 31 | 39 | 37 | 36 |
| U07-403002 | 40 | 27 | 41 | 45 | 44 | 45 |
| U08-828035 | 43 | 36 | 45 | 46 | 49 | 45 |

PRELIMINARY TEST IIIB, 2009

PLANT HEIGHT (inches)

| Strain | Columbia MO | Dewitt NE | Lincoln NE | North Bend NE | Hoytville OH | South Charleston OH |
|--------------|----------------|--------------|---------------|---------------------|-----------------|---------------------------|
| IA3023 (III) | | 39 | | | 28 | 29 |
| IA3024 | | 38 | | | 28 | 31 |
| IA3048 (SCN) | | 38 | | | 32 | 31 |
| IA4004 | | 43 | | | 32 | 34 |
| LG06-2219 | | 40 | | | 30 | 33 |
| LG06-2284 | | 42 | | | 33 | 34 |
| LG07-2309 | | 46 | | | 34 | 37 |
| LG07-8914 | | 44 | | | 33 | 34 |
| LG08-3007 | | 43 | | | 34 | 35 |
| LG08-3009 | | 38 | | | 35 | 36 |
| K08-6247 | | 39 | | | 32 | 32 |
| U07-200233 | | 47 | | | 38 | 42 |
| U07-200268 | | 39 | | | 33 | 29 |
| U07-200271 | | 49 | | | 37 | 35 |
| U07-200311 | | 38 | | | 32 | 32 |
| U07-200317 | | 47 | | | 36 | 39 |
| U07-200364 | | 47 | | | 37 | 32 |
| U07-224096 | | 39 | | | 33 | 33 |
| U07-317222 | | 47 | | | 33 | 40 |
| U07-321229 | | 46 | | | 39 | 37 |
| U07-326227 | | 43 | | | 36 | 42 |
| U07-331228 | | 47 | | | 34 | 36 |
| U07-332222 | | 36 | | | 34 | 34 |
| U07-335229 | | 36 | | | 37 | 35 |
| U07-403002 | | 47 | | | 37 | 41 |
| U08-828035 | | 49 | | | 36 | 41 |

PRELIMINARY TEST IIIB, 2009

SEED QUALITY (score)

| Strain | Mean 7 Tests | Crawfordsville IA | Urbana IL | Lafayette IN | Ashland KS | Manhattan KS |
|--------------|--------------------|----------------------|--------------|-----------------|---------------|-----------------|
| IA3023 (III) | 1.2 | 1.0 | 1.0 | 1.0 | 2.0 | |
| IA3024 | 1.6 | 2.0 | 1.0 | 1.5 | 2.0 | |
| IA3048 (SCN) | 1.4 | 1.0 | 1.0 | 1.0 | 2.0 | |
| IA4004 | 1.6 | 2.0 | 1.0 | 1.0 | 2.0 | |
| LG06-2219 | 1.4 | 1.0 | 1.0 | 1.0 | 2.0 | |
| LG06-2284 | 1.3 | 1.0 | 1.0 | 1.0 | 2.0 | |
| LG07-2309 | 1.9 | 2.0 | 1.0 | 1.5 | 2.0 | |
| LG07-8914 | 1.5 | 2.0 | 1.0 | 1.0 | 2.0 | |
| LG08-3007 | 1.4 | 2.0 | 1.0 | 1.0 | 2.0 | |
| LG08-3009 | 1.7 | 3.0 | 1.0 | 1.0 | 2.0 | |
| K08-6247 | 1.7 | 2.0 | 1.0 | 1.0 | 2.0 | |
| U07-200233 | 1.4 | 1.0 | 1.0 | 1.0 | 2.0 | |
| U07-200268 | 1.8 | 3.0 | 1.0 | 1.5 | 2.0 | |
| U07-200271 | 2.4 | 2.0 | 2.0 | 3.0 | 2.0 | |
| U07-200311 | 1.9 | 2.0 | 1.0 | 2.0 | 3.0 | |
| U07-200317 | 2.1 | 3.0 | 2.0 | 1.0 | 2.0 | |
| U07-200364 | 1.9 | 3.0 | 1.0 | 1.5 | 2.0 | |
| U07-224096 | 1.4 | 2.0 | 1.0 | 1.0 | 2.0 | |
| U07-317222 | 1.5 | 2.0 | 1.0 | 1.0 | 2.0 | |
| U07-321229 | 1.6 | 3.0 | 1.0 | 1.0 | 2.0 | |
| U07-326227 | 1.4 | 2.0 | 1.0 | 1.0 | 2.0 | |
| U07-331228 | 1.7 | 3.0 | 1.0 | 1.5 | 2.0 | |
| U07-332222 | 1.9 | 3.0 | 1.0 | 2.0 | 2.0 | |
| U07-335229 | 1.5 | 1.0 | 1.0 | 1.0 | 2.0 | |
| U07-403002 | 2.3 | 2.0 | 2.0 | 1.5 | 4.0 | |
| U08-828035 | 1.6 | 2.0 | 1.0 | 1.0 | 2.0 | |

PRELIMINARY TEST IIIB, 2009

SEED QUALITY (score)

| Strain | Columbia MO | Dewitt NE | Lincoln NE | North Bend NE | Hoytville OH | South Charleston OH |
|--------------|----------------|--------------|---------------|---------------------|-----------------|---------------------------|
| IA3023 (III) | | | | 1.0 | 1.0 | 1.5 |
| IA3024 | | | | 2.0 | 1.0 | 1.5 |
| IA3048 (SCN) | | | | 2.0 | 1.0 | 2.0 |
| IA4004 | | | | 2.0 | 1.0 | 2.0 |
| LG06-2219 | | | | 2.0 | 1.0 | 2.0 |
| LG06-2284 | | | | 1.0 | 1.0 | 2.0 |
| LG07-2309 | | | | 3.0 | 1.5 | 2.0 |
| LG07-8914 | | | | 1.0 | 1.5 | 2.0 |
| LG08-3007 | | | | 1.0 | 1.0 | 2.0 |
| LG08-3009 | | | | 2.0 | 1.0 | 2.0 |
| K08-6247 | | | | 2.0 | 2.0 | 2.0 |
| U07-200233 | | | | 2.0 | 1.0 | 2.0 |
| U07-200268 | | | | 2.0 | 1.0 | 2.0 |
| U07-200271 | | | | 2.0 | 3.0 | 3.0 |
| U07-200311 | | | | 2.0 | 1.5 | 2.0 |
| U07-200317 | | | | 3.0 | 1.5 | 2.0 |
| U07-200364 | | | | 2.0 | 2.0 | 2.0 |
| U07-224096 | | | | 1.0 | 1.0 | 2.0 |
| U07-317222 | | | | 2.0 | 1.0 | 1.5 |
| U07-321229 | | | | 1.0 | 1.0 | 2.0 |
| U07-326227 | | | | 1.0 | 1.0 | 1.5 |
| U07-331228 | | | | 2.0 | 1.0 | 1.5 |
| U07-332222 | | | | 2.0 | 1.0 | 2.0 |
| U07-335229 | | | | 2.0 | 1.5 | 2.0 |
| U07-403002 | | | | 2.0 | 2.0 | 2.5 |
| U08-828035 | | | | 2.0 | 1.0 | 2.0 |

PRELIMINARY TEST IIIB, 2009

SEED SIZE (g/100)

| Strain | Mean 9 Tests | Crawfordsville IA | Urbana IL | Lafayette IN | Ashland KS | Manhattan KS |
|--------------|--------------------|----------------------|--------------|-----------------|---------------|-----------------|
| IA3023 (III) | 13.2 | 13.4 | 11.6 | 13.1 | 12.6 | |
| IA3024 | 13.5 | 13.8 | 11.4 | 12.8 | 13.2 | |
| IA3048 (SCN) | 12.5 | 12.8 | 11.4 | 12.4 | 12.5 | |
| IA4004 | 14.2 | 15.1 | 12.9 | 14.0 | 14.4 | |
| LG06-2219 | 12.1 | 12.6 | 10.1 | 12.0 | 12.5 | |
| LG06-2284 | 14.1 | 14.1 | 13.0 | 13.7 | 14.4 | |
| LG07-2309 | 13.4 | 12.4 | 11.9 | 12.8 | 14.1 | |
| LG07-8914 | 15.7 | 14.9 | 15.3 | 15.5 | 17.0 | |
| LG08-3007 | 13.8 | 13.4 | 12.8 | 13.5 | 14.8 | |
| LG08-3009 | 13.5 | 13.1 | 12.1 | 13.7 | 14.5 | |
| K08-6247 | 13.1 | 13.0 | 11.8 | 13.0 | 13.3 | |
| U07-200233 | 13.8 | 14.2 | 14.0 | 14.0 | 12.4 | |
| U07-200268 | 14.3 | 13.6 | 14.2 | 13.2 | 12.4 | |
| U07-200271 | 15.0 | 15.0 | 14.2 | 15.5 | 12.9 | |
| U07-200311 | 15.0 | 15.3 | 13.7 | 13.8 | 15.8 | |
| U07-200317 | 14.6 | 14.3 | 15.0 | 14.2 | 13.5 | |
| U07-200364 | 14.3 | 14.0 | 12.8 | 14.4 | 15.0 | |
| U07-224096 | 13.9 | 14.7 | 13.2 | 13.7 | 13.0 | |
| U07-317222 | 13.9 | 13.6 | 12.1 | 13.3 | 15.3 | |
| U07-321229 | 11.3 | 11.2 | 10.1 | 11.2 | 12.7 | |
| U07-326227 | 13.1 | 11.7 | 11.1 | 12.5 | 14.4 | |
| U07-331228 | 15.3 | 15.1 | 14.0 | 15.3 | 15.5 | |
| U07-332222 | 13.7 | 12.3 | 13.1 | 13.7 | 13.3 | |
| U07-335229 | 13.3 | 12.9 | 11.9 | 14.1 | 14.3 | |
| U07-403002 | 15.3 | 15.2 | 14.7 | 15.5 | 13.2 | |
| U08-828035 | 14.2 | 14.3 | 13.0 | 13.9 | 13.8 | |

PRELIMINARY TEST IIIB, 2009

SEED SIZE (g/100)

| Strain | Columbia MO | Dewitt NE | Lincoln NE | North Bend NE | Hoytville OH | South Charleston OH |
|--------------|----------------|--------------|---------------|---------------------|-----------------|---------------------------|
| IA3023 (III) | | 13.0 | 15.1 | 13.2 | 13.0 | 13.7 |
| IA3024 | | 14.6 | 15.1 | 13.4 | 12.9 | 14.6 |
| IA3048 (SCN) | | 13.0 | 12.9 | 11.5 | 12.3 | 13.7 |
| IA4004 | | 14.6 | 15.7 | 13.8 | 13.1 | 13.9 |
| LG06-2219 | | 12.7 | 13.2 | 11.5 | 11.6 | 13.0 |
| LG06-2284 | | 13.7 | 15.2 | 12.8 | 14.1 | 15.6 |
| LG07-2309 | | 15.4 | 15.0 | 13.3 | 12.4 | 13.4 |
| LG07-8914 | | 17.3 | 17.9 | 15.1 | 13.2 | 15.3 |
| LG08-3007 | | 13.6 | 15.5 | 14.0 | 12.8 | 14.0 |
| LG08-3009 | | 14.5 | 14.1 | 13.1 | 13.1 | 13.7 |
| K08-6247 | | 13.4 | 14.5 | 12.3 | 12.5 | 13.9 |
| U07-200233 | | 14.3 | 13.9 | 13.1 | 13.1 | 15.4 |
| U07-200268 | | 15.7 | 17.3 | 13.7 | 13.7 | 15.0 |
| U07-200271 | | 14.1 | 17.9 | 14.6 | 14.1 | 16.4 |
| U07-200311 | | 15.3 | 15.9 | 14.7 | 15.1 | 15.3 |
| U07-200317 | | 14.0 | 17.6 | 14.4 | 13.6 | 15.0 |
| U07-200364 | | 14.4 | 15.8 | 13.1 | 14.1 | 15.0 |
| U07-224096 | | 13.3 | 15.0 | 13.8 | 14.1 | 14.3 |
| U07-317222 | | 14.3 | 14.9 | 13.6 | 13.2 | 14.8 |
| U07-321229 | | 12.0 | 11.9 | 10.2 | 11.2 | 11.4 |
| U07-326227 | | 14.3 | 13.9 | 13.1 | 12.9 | 13.7 |
| U07-331228 | | 16.2 | 16.0 | 15.7 | 14.4 | 16.0 |
| U07-332222 | | 12.8 | 15.7 | 13.6 | 13.1 | 15.3 |
| U07-335229 | | 13.3 | 14.2 | 11.3 | 13.1 | 14.3 |
| U07-403002 | | 15.1 | 16.2 | 16.0 | 14.4 | 17.2 |
| U08-828035 | | 14.1 | 16.8 | 14.0 | 13.5 | 14.5 |

PRELIMINARY TEST IIIB, 2010

PROTEIN (%)

| Strain | Mean 7 Tests | Urbana IL | Crawfordsville IA | Lafayette IN | Ashland KS | North Bend NE | Hoytville OH | South Charleston OH |
|--------------|--------------------|--------------|----------------------|-----------------|---------------|---------------------|-----------------|---------------------------|
| IA3023 (III) | 32.8 | 31.5 | 33.6 | 33.8 | 34.4 | 33.1 | 32.3 | 30.9 |
| IA3024 | 32.0 | 31.0 | 33.0 | 32.2 | 34.4 | 32.8 | 31.2 | 29.3 |
| IA3048 (SCN) | 33.3 | 32.2 | 34.0 | 33.6 | 35.2 | 33.6 | 32.9 | 31.5 |
| IA4004 | 34.7 | 34.8 | 35.3 | 34.3 | 35.8 | 34.9 | 33.6 | 34.1 |
| LG06-2219 | 33.5 | 33.0 | 34.0 | 33.9 | 35.0 | 33.5 | 33.0 | 31.9 |
| LG06-2284 | 33.2 | 31.8 | 34.3 | 34.1 | 35.4 | 32.6 | 32.1 | 32.1 |
| LG07-2309 | 33.3 | 32.5 | 34.6 | 33.3 | 35.0 | 34.0 | 32.3 | 31.5 |
| LG07-8914 | 34.0 | 33.4 | 36.0 | 34.1 | 35.2 | 34.1 | 32.5 | 32.5 |
| LG08-3007 | 33.6 | 33.4 | 34.3 | 34.4 | 35.0 | 33.8 | 33.5 | 30.7 |
| LG08-3009 | 34.0 | 33.5 | 34.0 | 33.7 | 35.0 | 34.4 | 34.8 | 32.4 |
| K08-6247 | 33.1 | 33.0 | 34.6 | 33.8 | 34.1 | 33.8 | 31.1 | 31.2 |
| U07-200233 | 34.6 | 34.1 | 36.1 | 34.8 | 36.6 | 35.1 | 33.7 | 31.7 |
| U07-200268 | 35.0 | 34.2 | 36.0 | 34.7 | 36.9 | 35.1 | 35.0 | 32.9 |
| U07-200271 | 32.9 | 31.2 | 34.6 | 32.5 | 34.9 | 33.7 | 32.3 | 31.0 |
| U07-200311 | 31.9 | 30.7 | 32.8 | 31.7 | 34.2 | 32.1 | 31.4 | 30.5 |
| U07-200317 | 33.6 | 32.2 | 34.0 | 32.9 | 35.3 | 33.4 | 33.7 | 33.5 |
| U07-200364 | 31.3 | 30.4 | 32.1 | 32.1 | 33.4 | 31.9 | 30.4 | 28.7 |
| U07-224096 | 33.3 | 32.0 | 36.1 | 34.3 | 33.8 | 34.1 | 32.5 | 30.4 |
| U07-317222 | 33.7 | 33.4 | 34.5 | 33.4 | 35.0 | 33.8 | 33.0 | 32.9 |
| U07-321229 | 31.7 | 31.0 | 34.1 | 32.5 | 33.8 | 32.3 | 29.8 | 28.6 |
| U07-326227 | 32.4 | 31.9 | 33.0 | 32.5 | 34.1 | 32.7 | 31.6 | 31.3 |
| U07-331228 | 33.7 | 32.5 | 34.3 | 34.1 | 36.1 | 34.5 | 33.7 | 30.5 |
| U07-332222 | 34.2 | 33.7 | 35.9 | 34.2 | 35.3 | 34.5 | 33.7 | 32.1 |
| U07-335229 | 33.9 | 32.9 | 35.2 | 33.5 | 36.1 | 35.1 | 32.9 | 31.5 |
| U07-403002 | 31.9 | 31.0 | 32.7 | 32.2 | 33.9 | 32.8 | 31.6 | 28.8 |
| U08-828035 | 34.4 | 33.9 | 34.7 | 34.4 | 36.1 | 35.2 | 35.2 | 31.1 |

* Protein and Oil values converted to 13% moisture basis. ns = no sample

PRELIMINARY TEST IIIB, 2010

OIL (%)

| Strain | Mean 7 Tests | Urbana IL | Crawfordsville IA | Lafayette IN | Ashland KS | North Bend NE | Hoytville OH | South Charleston OH |
|--------------|--------------------|--------------|----------------------|-----------------|---------------|---------------------|-----------------|---------------------------|
| IA3023 (III) | 18.6 | 18.7 | 18.1 | 18.8 | 18.7 | 18.8 | 18.7 | 18.6 |
| IA3024 | 19.1 | 19.1 | 18.7 | 18.8 | 19.4 | 19.5 | 19.0 | 19.2 |
| IA3048 (SCN) | 18.2 | 18.5 | 17.8 | 18.2 | 18.0 | 18.1 | 18.4 | 18.5 |
| IA4004 | 18.0 | 17.5 | 18.0 | 17.7 | 17.4 | 19.0 | 17.9 | 18.1 |
| LG06-2219 | 17.4 | 16.6 | 17.5 | 17.3 | 17.3 | 17.6 | 17.6 | 17.9 |
| LG06-2284 | 18.1 | 17.6 | 18.1 | 18.3 | 18.5 | 18.1 | 18.2 | 18.3 |
| LG07-2309 | 17.5 | 17.6 | 17.3 | 17.6 | 17.7 | 17.1 | 17.5 | 17.7 |
| LG07-8914 | 18.2 | 17.7 | 18.5 | 17.7 | 18.7 | 18.5 | 18.2 | 17.8 |
| LG08-3007 | 18.1 | 17.6 | 18.2 | 18.3 | 18.5 | 18.1 | 17.8 | 18.2 |
| LG08-3009 | 18.4 | 18.1 | 18.6 | 18.4 | 18.6 | 18.7 | 18.3 | 18.4 |
| K08-6247 | 18.4 | 18.0 | 18.8 | 17.9 | 19.0 | 18.0 | 18.7 | 18.3 |
| U07-200233 | 17.4 | 17.5 | 17.0 | 17.1 | 17.4 | 17.0 | 17.2 | 18.5 |
| U07-200268 | 17.3 | 17.4 | 16.7 | 16.7 | 17.4 | 17.5 | 17.6 | 17.8 |
| U07-200271 | 18.4 | 18.6 | 18.6 | 18.7 | 18.5 | 18.1 | 18.4 | 18.0 |
| U07-200311 | 19.4 | 19.5 | 19.4 | 19.3 | 19.4 | 19.7 | 19.3 | 19.5 |
| U07-200317 | 18.4 | 18.3 | 18.0 | 18.1 | 18.7 | 18.4 | 18.6 | 18.9 |
| U07-200364 | 18.7 | 18.7 | 19.0 | 18.3 | 18.6 | 18.4 | 18.8 | 19.5 |
| U07-224096 | 18.9 | 18.7 | 18.8 | 18.9 | 19.2 | 18.7 | 18.6 | 19.2 |
| U07-317222 | 18.7 | 18.2 | 18.2 | 18.5 | 18.9 | 18.2 | 19.3 | 19.3 |
| U07-321229 | 19.2 | 18.9 | 18.6 | 19.0 | 19.3 | 18.9 | 19.7 | 20.0 |
| U07-326227 | 19.0 | 19.0 | 18.6 | 18.6 | 19.2 | 19.1 | 19.2 | 19.4 |
| U07-331228 | 18.6 | 18.5 | 18.5 | 18.7 | 18.7 | 18.4 | 18.1 | 19.5 |
| U07-332222 | 17.7 | 17.6 | 17.0 | 17.6 | 18.3 | 18.0 | 17.5 | 18.2 |
| U07-335229 | 18.5 | 18.8 | 18.0 | 18.1 | 18.3 | 18.6 | 18.7 | 19.0 |
| U07-403002 | 18.6 | 18.7 | 18.4 | 18.6 | 18.7 | 19.0 | 18.2 | 18.8 |
| U08-828035 | 17.9 | 17.5 | 17.7 | 18.0 | 18.1 | 17.4 | 18.5 | 18.4 |

Uniform Test IV, 2010

| Ent. | Strain | Parentage | Seed Source | Previous Testing | Gen. Comp. | Unique Traits |
|------|----------------|--|-------------|------------------|------------|---------------|
| 1. | LD00-3309 (IV) | Maverick x Dwight | Diers | 5 | F5 | SCN |
| 2. | IA4004 | Dairyand 99433 x A01-409003 | Fehr | 3 | F4 | |
| 3. | LD00-2817P (L) | Ina x Dwight | Diers | 3 | F5 | SCN |
| 4. | K07-1253 | IA3023 X LS01-1987 | Schapaugh | PTIIIA | F4 | |
| 5. | LD05-30578a | LD00-3309(2) x [LD00-4970(2) x (Dowling x Loda)] | Diers | 09 SCN UTIV | F5 | SCN,Rag1 |
| 6. | LD06-7609 | IA3023 x LD00- 3309 | Diers | 09 SCN PIV | F5 | SCN |
| 7. | LD06-7620 | IA3023 x LD00- 3309 | Diers | 09 SCN PIV | F5 | SCN |
| 8. | LD06-9205 | LS98-0582 x LD00- 3296 | Diers | 09 SCN PIV | F5 | SCN |
| 9. | LG06-5798 | LG00-3372 x LD00-3309 | Nelson | PTIV | F5 | Diversity |
| 10. | LG06-5920 | LG00-3372 x LD00-3309 | Nelson | PTIV | F5 | Diversity |
| 11. | LG07-9814 | S32-Z3 x LG99-11986 | Nelson | PTIV | F6 | Diversity |
| 12. | LS05-3229 | LS93-0375 x Ina | Klein | 2 | F6 | |
| 13. | TN05-3027 | Rend x LG97-9301 | Pantalone | PTIVe | F5 | Diversity |

UNIFORM TEST IV, 2010

DESCRIPTIVE AND DISEASE DATA

| Strain | Descriptive Code | <u>Green Stem</u> Score | | | <u>Shattering</u> Score | <u>PR</u> Lafayette | | <u>FE</u> Laf. | <u>SDS</u> DX |
|---|------------------|----------------------------|---------------------|---------------|----------------------------|------------------------|-----------|-------------------|------------------|
| | | Lafayette IN | S. Charleston OH | Jackson TN | Manhattan KS | Race 4 | Race 7 | a rx. | Valmeyer IL |
| LD00-3309 (IV) | PTBDYBII | 1.0 | 1.1 | 1.0 | 2.0 | S | S | S | 9 |
| IA4004 | PTBDYYI | 1.0 | 1.2 | 2.7 | 2.0 | S | S | S | 28 |
| LD00-2817P (L) | PGBDYIbI | 1.0 | 2.3 | 1.3 | 2.0 | S | S | S | 44 |
| K07-1253 | PTBDYBII | 1.0 | 1.5 | 2.7 | 1.0 | S | S | S | 14 |
| LD05-30578a | PTBDYBfI | 1.0 | 1.9 | 1.3 | 1.0 | S | H* | S | 14 |
| LD06-7609 | WTBDYBII | 1.0 | 2.2 | 2.7 | 2.0 | S | S | S | 4 |
| LD06-7620 | PLtBDYBII | 1.0 | 1.7 | 2.3 | 1.0 | S | H* | S | 5 |
| LD06-9205 | WGBDYBfI | 1.0 | 2.1 | 1.7 | 1.0 | S | S | S | 14 |
| LG06-5798 | PLtBDYBII | 1.0 | 2.1 | 1.0 | 1.0 | S | S | S | 36 |
| LG06-5920 | PTBDYBII | 1.0 | 1.0 | 1.3 | 3.0 | S | S | S | 13 |
| LG07-9814 | WTTDYBII | 1.0 | 1.6 | 2.3 | 1.0 | S | S | S | 28 |
| LS05-3229 | PTTDYBII | 1.0 | 1.9 | 1.3 | 1.0 | S | S | S | 6 |
| TN05-3027 | WGBDYBfI | 1.0 | 1.9 | 1.7 | 2.0 | S | S | S | 31 |
| Ripley (res) | | | | | | | | | 1 |
| Spencer (sus) | | | | | | | | | 39 |
| LSD | | | | | | | | | 14 |
| P<F | | | | | | | | | <.0001 |
| PR: * = <i>P. sojae</i> inoc. Reaction NOT compatible with breeder's information about <i>Rps</i> Trait | | | | | | | | | |
| FE: S = susceptible, - = lesions not detected, x = no data | | | | | | | | | |

UNIFORM TEST IV, 2010

REGIONAL SUMMARY

| No. of Tests Strain | Yield 15 bu/a | Rank 15 No. | Maturity 14 Date | Lodging 15 Score | Plant Height 14 In. | Seed Quality 14 Score | Seed Size 14 g/100 | <u>Composition</u> | |
|------------------------|---------------------|-------------------|------------------------|------------------------|------------------------------|--------------------------------|-----------------------------|--------------------|---------------|
| | | | | | | | | Protein 8 % | Oil 8 % |
| LD00-3309 (IV) | 53.5 | 10 | 9/22 | 1.7 | 37 | 1.7 | 10.9 | 33.6 | 17.5 |
| IA4004 | 53.6 | 8 | -1.2 | 2.3 | 37 | 2.3 | 14.4 | 34.7 | 17.8 |
| LD00-2817P (L) | 52.8 | 12 | 5.1 | 2.0 | 40 | 2.1 | 11.6 | 31.8 | 18.5 |
| K07-1253 | 56.6 | 2 | 2.7 | 2.1 | 36 | 1.9 | 13.0 | 32.9 | 18.1 |
| LD05-30578a | 53.1 | 11 | 2.1 | 1.7 | 37 | 1.9 | 12.2 | 33.7 | 18.1 |
| LD06-7609 | 54.0 | 6 | 2.2 | 1.5 | 39 | 1.8 | 12.7 | 33.9 | 17.7 |
| LD06-7620 | 54.4 | 5 | 2.2 | 1.6 | 34 | 2.0 | 12.9 | 33.7 | 17.9 |
| LD06-9205 | 51.8 | 13 | 0.7 | 1.4 | 35 | 2.0 | 14.3 | 33.8 | 18.5 |
| LG06-5798 | 57.1 | 1 | 5.2 | 1.9 | 38 | 1.9 | 11.9 | 34.5 | 17.4 |
| LG06-5920 | 56.0 | 3 | 3.7 | 2.6 | 43 | 2.0 | 13.1 | 34.2 | 17.9 |
| LG07-9814 | 53.7 | 7 | 7.1 | 2.5 | 43 | 2.2 | 13.4 | 33.0 | 18.3 |
| LS05-3229 | 53.6 | 8 | 7.5 | 2.2 | 42 | 1.8 | 13.7 | 34.1 | 17.7 |
| TN05-3027 | 55.1 | 4 | 3.4 | 2.2 | 41 | 1.9 | 12.7 | 34.4 | 17.6 |

120.4 Days After Planting

UNIFORM TEST IV, 2010**2009-2010 2-YEAR MEAN**

| No. of Tests Strain | Yield 26 bu/a | Rank 26 No. | Maturity 24 Date | Lodging 28 Score | Plant Height 25 In. | Seed Quality 24 Score | Seed Size 25 g/100 | <u>Composition</u> | |
|------------------------|---------------------|-------------------|------------------------|------------------------|------------------------------|--------------------------------|-----------------------------|--------------------|----------------|
| | | | | | | | | Protein 16 % | Oil 16 % |
| LD00-3309 (IV) | 58.9 | 1 | 9/24 | 1.6 | 35 | 1.8 | 12.2 | 33.9 | 17.6 |
| IA4004 | 57.2 | 4 | -3.6 | 2.2 | 35 | 2.2 | 15.7 | 34.8 | 17.8 |
| LD00-2817P (L) | 58.0 | 2 | 4.5 | 1.9 | 37 | 2.3 | 13.0 | 32.5 | 18.2 |
| LS05-3229 | 57.6 | 3 | 6.0 | 2.1 | 39 | 2.1 | 15.1 | 34.5 | 17.4 |

125.8 Days After Planting

2008-2010 3-YEAR MEAN

| No. of Tests Strain | Yield 37 bu/a | Rank 37 No. | Maturity 36 Date | Lodging 41 Score | Plant Height 38 In. | Seed Quality 36 Score | Seed Size 38 g/100 | <u>Composition</u> | |
|------------------------|---------------------|-------------------|------------------------|------------------------|------------------------------|--------------------------------|-----------------------------|--------------------|----------------|
| | | | | | | | | Protein 22 % | Oil 22 % |
| LD00-3309 (IV) | 58.3 | 1 | 9/24 | 1.5 | 33 | 1.8 | 12.3 | 34.2 | 17.6 |
| LD00-2817P (L) | 57.1 | 3 | 4.2 | 1.9 | 35 | 2.3 | 13.1 | 32.4 | 18.5 |
| LS05-3229 | 57.8 | 2 | 6.2 | 2.1 | 37 | 2.0 | 15.2 | 34.7 | 17.6 |

125.4 Days After Planting

UNIFORM TEST IV, 2010

YIELD (bu/a)

| Strain | Mean | Belleville IL | Harrisburg IL | Brownstown IL | Urbana IL | Lafayette IN | Ashland KS | Manhattan KS |
|----------------|-------------|------------------|------------------|------------------|--------------|-----------------|---------------|-----------------|
| | 15 Tests | | | | | | | |
| LD00-3309 (IV) | 53.5 | 53.2 | 55.2 | 55.7 | 62.2 | 73.6 | 50.2 | 51.0 |
| IA4004 | 53.6 | 62.9 | 54.5 | 51.9 | 61.7 | 71.8 | 52.9 | 56.2 |
| LD00-2817P (L) | 52.8 | 62.3 | 51.6 | 53.9 | 56.6 | 70.0 | 48.9 | 46.8 |
| K07-1253 | 56.6 | 65.3 | 59.1 | 56.9 | 65.3 | 72.8 | 50.7 | 56.2 |
| LD05-30578a | 53.1 | 53.9 | 52.9 | 49.5 | 65.4 | 71.2 | 48.1 | 45.1 |
| LD06-7609 | 54.0 | 61.8 | 58.1 | 53.7 | 63.3 | 67.5 | 47.8 | 51.2 |
| LD06-7620 | 54.4 | 54.3 | 63.2 | 55.1 | 64.6 | 74.0 | 50.7 | 49.2 |
| LD06-9205 | 51.8 | 59.8 | 58.7 | 58.9 | 60.2 | 64.9 | 41.7 | 46.4 |
| LG06-5798 | 57.1 | 53.0 | 63.9 | 62.9 | 63.3 | 72.3 | 51.6 | 58.9 |
| LG06-5920 | 56.0 | 57.5 | 60.3 | 57.7 | 69.0 | 62.0 | 48.8 | 51.4 |
| LG07-9814 | 53.7 | 62.1 | 52.9 | 54.4 | 62.3 | 67.1 | 44.3 | 47.6 |
| LS05-3229 | 53.6 | 58.2 | 54.9 | 54.0 | 62.0 | 64.2 | 46.6 | 45.6 |
| TN05-3027 | 55.1 | 60.5 | 55.2 | 56.2 | 61.1 | 69.7 | 51.7 | 52.0 |
| Location Mean | | 58.8 | 57.0 | 55.4 | 62.8 | 69.3 | 48.7 | 50.6 |
| C.V. (%) | | 4.6 | 6.6 | 5.6 | 7.8 | 6.7 | 6.4 | 7.7 |
| L.S.D. (5%) | | 4.6 | 6.4 | 6.7 | 10.7 | 7.9 | 4.4 | 5.4 |
| Row Sp. (In.) | | 30 | 30 | 30 | 30 | 30 | 30 | 30 |
| Rows/Plot | | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Reps | | 3 | 3 | 2 | 2 | 3 | 3 | 3 |

*Data not included in mean.

UNIFORM TEST IV, 2010

YIELD (bu/a)

| Strain | Ottawa KS | Lexington KY | Queenstown MD | Columbia MO | Portageville (Clay) MO | Portageville (Loam) MO | South Charleston OH | Jackson TN |
|----------------|--------------|-----------------|------------------|----------------|------------------------------|------------------------------|---------------------------|---------------|
| LD00-3309 (IV) | 37.9 | 52.6 | 50.7 | 50.3 | 53.4 | 48.8 | 56.4 | 51.6 |
| IA4004 | 38.8 | 55.5 | 41.3 | 46.8 | 54.7 | 47.9 | 56.7 | 50.2 |
| LD00-2817P (L) | 43.2 | 52.9 | 44.5 | 54.9 | 55.2 | 53.1 | 47.9 | 50.3 |
| K07-1253 | 40.7 | 57.7 | 44.6 | 56.1 | 62.4 | 52.0 | 60.6 | 49.2 |
| LD05-30578a | 40.0 | 52.8 | 49.9 | 52.4 | 54.3 | 52.5 | 60.8 | 47.6 |
| LD06-7609 | 35.4 | 55.6 | 49.2 | 55.3 | 55.4 | 46.4 | 54.2 | 55.2 |
| LD06-7620 | 33.9 | 54.7 | 57.5 | 53.0 | 52.4 | 48.3 | 58.9 | 46.1 |
| LD06-9205 | 41.6 | 55.1 | 48.2 | 45.1 | 47.5 | 42.2 | 57.9 | 49.3 |
| LG06-5798 | 47.1 | 51.7 | 46.8 | 62.6 | 63.4 | 47.5 | 65.2 | 47.0 |
| LG06-5920 | 41.4 | 50.8 | 53.9 | 57.9 | 59.2 | 57.5 | 58.4 | 54.0 |
| LG07-9814 | 44.9 | 52.3 | 43.0 | 55.7 | 62.3 | 55.4 | 55.1 | 46.9 |
| LS05-3229 | 38.4 | 47.8 | 54.6 | 53.7 | 61.0 | 57.6 | 54.2 | 51.5 |
| TN05-3027 | 38.8 | 52.4 | 47.4 | 55.6 | 61.9 | 60.3 | 58.0 | 45.6 |
| Location Mean | 40.2 | 53.2 | 48.6 | 53.8 | 57.2 | 51.5 | 57.2 | 49.6 |
| C.V. (%) | 10.0 | 10.1 | 8.8 | 5.0 | 6.1 | 9.2 | 8.3 | 11.3 |
| L.S.D. (5%) | 5.6 | 7.5 | 7.3 | 3.8 | 5.9 | 8.0 | 8.0 | 9.4 |
| Row Sp. (In.) | 30 | 16 | 24 | 30 | 30 | 30 | 15 | 30 |
| Rows/Plot | 4 | 6 | 4 | 4 | 4 | 4 | 6 | 4 |
| Reps | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |

*Data not included in mean.

UNIFORM TEST IV, 2010

YIELD RANK

| Strain | Yield Rank | Belleville IL | Harrisburg IL | Brownstown IL | Urbana IL | Lafayette IN | Ashland KS | Manhattan KS |
|----------------|------------|---------------|---------------|---------------|-----------|--------------|------------|--------------|
| LD00-3309 (IV) | 10 | 12 | 7 | 6 | 8 | 2 | 6 | 7 |
| IA4004 | 8 | 2 | 10 | 12 | 10 | 5 | 1 | 2 |
| LD00-2817P (L) | 12 | 3 | 13 | 10 | 13 | 7 | 7 | 10 |
| K07-1253 | 2 | 1 | 4 | 4 | 3 | 3 | 4 | 2 |
| LD05-30578a | 11 | 11 | 11 | 13 | 2 | 6 | 9 | 13 |
| LD06-7609 | 6 | 5 | 6 | 11 | 5 | 9 | 10 | 6 |
| LD06-7620 | 5 | 10 | 2 | 7 | 4 | 1 | 4 | 8 |
| LD06-9205 | 13 | 7 | 5 | 2 | 12 | 11 | 13 | 11 |
| LG06-5798 | 1 | 13 | 1 | 1 | 5 | 4 | 3 | 1 |
| LG06-5920 | 3 | 9 | 3 | 3 | 1 | 13 | 8 | 5 |
| LG07-9814 | 7 | 4 | 11 | 8 | 7 | 10 | 12 | 9 |
| LS05-3229 | 8 | 8 | 9 | 9 | 9 | 12 | 11 | 12 |
| TN05-3027 | 4 | 6 | 7 | 5 | 11 | 8 | 2 | 4 |

UNIFORM TEST IV, 2010

MATURITY (date)

| Strain | Mean 14 Tests | Belleville IL | Harrisburg IL | Brownstown IL | Urbana IL | Lafayette IN | Ashland KS | Manhattan KS |
|----------------|---------------|---------------|---------------|---------------|-----------|--------------|------------|--------------|
| LD00-3309 (IV) | 9/22 | 9/28 | 9/10 | 9/24 | 9/25 | 9/29 | 10/2 | 10/13 |
| IA4004 | -1.2 | -1 | -2 | -2 | -5 | -3 | 4 | -3 |
| LD00-2817P (L) | 5.1 | 5 | 6 | 8 | 3 | 3 | 6 | 2 |
| K07-1253 | 2.7 | 4 | 3 | 3 | -1 | 2 | 5 | -2 |
| LD05-30578a | 2.1 | 0 | 2 | 2 | 2 | 3 | 4 | 2 |
| LD06-7609 | 2.2 | 0 | 2 | 2 | 1 | 3 | 4 | 2 |
| LD06-7620 | 2.2 | 2 | 0 | 1 | 1 | 2 | 5 | 1 |
| LD06-9205 | 0.7 | -1 | 1 | 4 | 1 | 0 | 1 | -0 |
| LG06-5798 | 5.2 | 3 | 8 | 6 | 4 | 4 | 7 | 1 |
| LG06-5920 | 3.7 | 2 | 5 | 6 | 6 | 3 | 4 | 0 |
| LG07-9814 | 7.1 | 8 | 8 | 10 | 5 | 9 | 7 | 4 |
| LS05-3229 | 7.5 | 7 | 11 | 7 | 7 | 8 | 7 | 4 |
| TN05-3027 | 3.4 | 1 | 3 | 6 | 0 | 1 | 6 | 3 |
| Date Planted | 5/25 | 6/3 | 5/18 | 6/7 | 5/26 | 5/26 | 6/3 | 6/2 |
| Days to Mature | 120 | 117 | 115 | 109 | 122 | 126 | 121 | 133 |

UNIFORM TEST IV, 2010

YIELD RANK

| Strain | Ottawa KS | Lexington KY | Queenstown MD | Columbia MO | Portageville (Clay) MO | Portageville (Loam) MO | South Charleston OH | Jackson TN |
|----------------|--------------|-----------------|------------------|----------------|------------------------------|------------------------------|---------------------------|---------------|
| LD00-3309 (IV) | 11 | 8 | 4 | 11 | 11 | 8 | 9 | 3 |
| IA4004 | 8 | 3 | 13 | 12 | 9 | 10 | 8 | 6 |
| LD00-2817P (L) | 3 | 6 | 11 | 7 | 8 | 5 | 13 | 5 |
| K07-1253 | 6 | 1 | 10 | 3 | 2 | 7 | 3 | 8 |
| LD05-30578a | 7 | 7 | 5 | 10 | 10 | 6 | 2 | 9 |
| LD06-7609 | 12 | 2 | 6 | 6 | 7 | 12 | 11 | 1 |
| LD06-7620 | 13 | 5 | 1 | 9 | 12 | 9 | 4 | 12 |
| LD06-9205 | 4 | 4 | 7 | 13 | 13 | 13 | 7 | 7 |
| LG06-5798 | 1 | 11 | 9 | 1 | 1 | 11 | 1 | 10 |
| LG06-5920 | 5 | 12 | 3 | 2 | 6 | 3 | 5 | 2 |
| LG07-9814 | 2 | 10 | 12 | 4 | 3 | 4 | 10 | 11 |
| LS05-3229 | 10 | 13 | 2 | 8 | 5 | 2 | 11 | 4 |
| TN05-3027 | 8 | 9 | 8 | 5 | 4 | 1 | 6 | 13 |

UNIFORM TEST IV, 2010

MATURITY (date)

| Strain | Ottawa KS | Lexington KY | Queenstown MD | Columbia MO | Portageville (Clay) MO | Portageville (Loam) MO | South Charleston OH | Jackson TN |
|----------------|--------------|-----------------|------------------|----------------|------------------------------|------------------------------|---------------------------|---------------|
| LD00-3309 (IV) | | 9/13 | 9/26 | 9/22 | 9/22 | 9/6 | 9/23 | 9/13 |
| IA4004 | | 1 | -3 | 0 | 0 | -2 | -5 | 4 |
| LD00-2817P (L) | | 8 | 2 | 9 | 3 | 8 | 5 | 3 |
| K07-1253 | | 5 | 7 | 5 | -1 | 2 | 2 | 3 |
| LD05-30578a | | 3 | -1 | 4 | -1 | 4 | 3 | 3 |
| LD06-7609 | | 6 | 2 | 3 | -1 | 0 | 3 | 4 |
| LD06-7620 | | 1 | 10 | 4 | -1 | 1 | 1 | 3 |
| LD06-9205 | | 2 | -1 | 0 | -1 | 0 | 2 | 3 |
| LG06-5798 | | 6 | 12 | 8 | 1 | 6 | 6 | 2 |
| LG06-5920 | | 5 | 6 | 6 | 1 | 5 | 1 | 1 |
| LG07-9814 | | 8 | 12 | 8 | 5 | 7 | 2 | 6 |
| LS05-3229 | | 10 | 11 | 10 | 4 | 6 | 8 | 5 |
| TN05-3027 | | 4 | 11 | 6 | -1 | 5 | 1 | 2 |
| Date Planted | 6/2 | 5/10 | 5/27 | 5/26 | 5/26 | 5/6 | 5/16 | 5/24 |
| Days to Mature | | 126 | 122 | 119 | 119 | 123 | 130 | 112 |

UNIFORM TEST IV, 2010**LODGING (score)**

| Strain | Mean 15 Tests | Belleville IL | Harrisburg IL | Brownstown IL | Urbana IL | Lafayette IN | Ashland KS | Manhattan KS |
|----------------|---------------------|------------------|------------------|------------------|--------------|-----------------|---------------|-----------------|
| LD00-3309 (IV) | 1.7 | 4.0 | 1.3 | 2.0 | 1.0 | 1.0 | 1.6 | 1.0 |
| IA4004 | 2.3 | 4.0 | 2.0 | 3.3 | 1.3 | 1.5 | 2.2 | 2.0 |
| LD00-2817P (L) | 2.0 | 4.0 | 1.7 | 2.3 | 1.3 | 1.0 | 2.1 | 1.7 |
| K07-1253 | 2.1 | 3.7 | 2.0 | 3.0 | 1.5 | 1.2 | 2.0 | 2.0 |
| LD05-30578a | 1.7 | 3.7 | 1.0 | 1.5 | 1.0 | 1.0 | 1.9 | 1.7 |
| LD06-7609 | 1.5 | 3.3 | 1.0 | 1.5 | 1.0 | 1.0 | 1.4 | 1.0 |
| LD06-7620 | 1.6 | 4.0 | 1.3 | 2.0 | 1.0 | 1.0 | 1.6 | 1.0 |
| LD06-9205 | 1.4 | 3.3 | 1.0 | 1.5 | 1.0 | 1.0 | 1.5 | 1.0 |
| LG06-5798 | 1.9 | 3.3 | 2.0 | 2.0 | 1.3 | 1.0 | 1.9 | 1.3 |
| LG06-5920 | 2.6 | 4.0 | 3.3 | 3.0 | 2.0 | 1.2 | 2.2 | 2.0 |
| LG07-9814 | 2.5 | 4.0 | 3.7 | 3.3 | 1.5 | 1.5 | 2.1 | 2.3 |
| LS05-3229 | 2.2 | 4.0 | 2.0 | 2.5 | 1.5 | 1.0 | 2.1 | 2.0 |
| TN05-3027 | 2.2 | 4.0 | 2.0 | 2.8 | 1.5 | 1.3 | 1.6 | 2.0 |

UNIFORM TEST IV, 2010**PLANT HEIGHT (inches)**

| Strain | Mean 14 Tests | Belleville IL | Harrisburg IL | Brownstown IL | Urbana IL | Lafayette IN | Ashland KS | Manhattan KS |
|----------------|---------------------|------------------|------------------|------------------|--------------|-----------------|---------------|-----------------|
| LD00-3309 (IV) | 37 | 45 | 46 | 40 | 37 | 44 | 36 | 36 |
| IA4004 | 37 | 46 | 46 | 38 | 35 | 44 | 41 | 37 |
| LD00-2817P (L) | 40 | 48 | 47 | 40 | 41 | 47 | 45 | 37 |
| K07-1253 | 36 | 41 | 44 | 38 | 36 | 43 | 38 | 39 |
| LD05-30578a | 37 | 43 | 43 | 37 | 39 | 42 | 37 | 39 |
| LD06-7609 | 39 | 44 | 46 | 41 | 42 | 46 | 42 | 39 |
| LD06-7620 | 34 | 40 | 42 | 35 | 39 | 43 | 35 | 32 |
| LD06-9205 | 35 | 44 | 43 | 39 | 37 | 43 | 34 | 35 |
| LG06-5798 | 38 | 45 | 47 | 42 | 38 | 44 | 44 | 40 |
| LG06-5920 | 43 | 49 | 54 | 44 | 46 | 49 | 47 | 41 |
| LG07-9814 | 43 | 48 | 53 | 48 | 43 | 51 | 43 | 50 |
| LS05-3229 | 42 | 47 | 49 | 48 | 43 | 45 | 44 | 41 |
| TN05-3027 | 41 | 49 | 50 | 44 | 40 | 46 | 47 | 42 |

UNIFORM TEST IV, 2010**LODGING (score)**

| Strain | Ottawa KS | Lexington KY | Queenstown MD | Columbia MO | Portageville (Clay) MO | Portageville (Loam) MO | South Charleston OH | Jackson TN |
|----------------|--------------|-----------------|------------------|----------------|------------------------------|------------------------------|---------------------------|---------------|
| LD00-3309 (IV) | 1.0 | 1.8 | 1.0 | 1.7 | 2.0 | 1.0 | 1.2 | 4.0 |
| IA4004 | 2.0 | 2.0 | 1.7 | 3.0 | 3.0 | 1.0 | 1.9 | 4.3 |
| LD00-2817P (L) | 1.0 | 2.3 | 1.5 | 3.0 | 2.0 | 2.0 | 1.5 | 2.7 |
| K07-1253 | 1.3 | 2.0 | 2.5 | 2.0 | 2.0 | 1.0 | 1.7 | 3.0 |
| LD05-30578a | 1.0 | 2.0 | 1.3 | 1.7 | 1.0 | 1.0 | 1.3 | 4.0 |
| LD06-7609 | 1.0 | 1.3 | 1.3 | 1.7 | 1.5 | 1.0 | 1.2 | 3.0 |
| LD06-7620 | 1.0 | 1.3 | 1.0 | 1.7 | 1.0 | 1.0 | 1.4 | 3.7 |
| LD06-9205 | 1.0 | 1.2 | 1.0 | 1.0 | 1.0 | 1.0 | 1.1 | 3.0 |
| LG06-5798 | 1.0 | 2.2 | 1.5 | 3.0 | 3.0 | 1.0 | 1.7 | 3.0 |
| LG06-5920 | 1.0 | 2.3 | 2.7 | 3.3 | 4.0 | 2.0 | 2.0 | 4.3 |
| LG07-9814 | 1.3 | 1.7 | 1.5 | 3.3 | 4.0 | 2.0 | 1.4 | 3.7 |
| LS05-3229 | 1.0 | 1.8 | 2.3 | 2.0 | 4.0 | 1.0 | 2.0 | 4.0 |
| TN05-3027 | 1.0 | 2.3 | 1.8 | 2.7 | 3.0 | 2.0 | 1.7 | 4.0 |

UNIFORM TEST IV, 2010**PLANT HEIGHT (inches)**

| Strain | Ottawa KS | Lexington KY | Queenstown MD | Columbia MO | Portageville (Clay) MO | Portageville (Loam) MO | South Charleston OH | Jackson TN |
|----------------|--------------|-----------------|------------------|----------------|------------------------------|------------------------------|---------------------------|---------------|
| LD00-3309 (IV) | 26 | 41 | 29 | | 30 | 32 | 35 | 39 |
| IA4004 | 27 | 38 | 31 | | 32 | 28 | 36 | 40 |
| LD00-2817P (L) | 30 | 40 | 34 | | 33 | 39 | 38 | 42 |
| K07-1253 | 26 | 39 | 31 | | 30 | 25 | 36 | 37 |
| LD05-30578a | 26 | 39 | 31 | | 33 | 32 | 34 | 40 |
| LD06-7609 | 30 | 41 | 34 | | 30 | 30 | 38 | 41 |
| LD06-7620 | 24 | 35 | 30 | | 28 | 28 | 32 | 37 |
| LD06-9205 | 26 | 36 | 29 | | 28 | 26 | 33 | 38 |
| LG06-5798 | 29 | 40 | 32 | | 31 | 27 | 38 | 36 |
| LG06-5920 | 32 | 44 | 36 | | 36 | 37 | 44 | 45 |
| LG07-9814 | 29 | 43 | 35 | | 34 | 38 | 41 | 45 |
| LS05-3229 | 30 | 40 | 36 | | 38 | 41 | 40 | 48 |
| TN05-3027 | 29 | 41 | 33 | | 36 | 35 | 40 | 45 |

UNIFORM TEST IV, 2010**SEED QUALITY (score)**

| Strain | Mean 14 Tests | Belleville IL | Harrisburg IL | Brownstown IL | Urbana IL | Lafayette IN | Ashland KS | Manhattan KS |
|----------------|---------------------|------------------|------------------|------------------|--------------|-----------------|---------------|-----------------|
| LD00-3309 (IV) | 1.7 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 2.0 | 2.0 |
| IA4004 | 2.3 | 2.0 | 2.0 | 2.0 | 1.0 | 1.0 | 2.0 | 2.0 |
| LD00-2817P (L) | 2.1 | 2.0 | 1.0 | 2.0 | 1.0 | 1.0 | 2.0 | 2.0 |
| K07-1253 | 1.9 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 2.0 | 2.0 |
| LD05-30578a | 1.9 | 1.0 | 1.0 | 2.0 | 1.0 | 1.0 | 2.0 | 2.0 |
| LD06-7609 | 1.8 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 2.0 | 2.0 |
| LD06-7620 | 2.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 2.0 | 2.0 |
| LD06-9205 | 2.0 | 2.0 | 1.0 | 1.0 | 1.0 | 1.0 | 2.0 | 2.0 |
| LG06-5798 | 1.9 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 2.0 | 2.0 |
| LG06-5920 | 2.0 | 1.0 | 1.0 | 2.0 | 1.0 | 1.0 | 2.0 | 2.0 |
| LG07-9814 | 2.2 | 1.0 | 1.0 | 2.0 | 1.0 | 1.0 | 2.0 | 3.0 |
| LS05-3229 | 1.8 | 1.0 | 1.0 | 2.0 | 1.0 | 1.0 | 2.0 | 2.0 |
| TN05-3027 | 1.9 | 1.0 | 1.0 | 2.0 | 1.0 | 1.0 | 2.0 | 2.0 |

UNIFORM TEST IV, 2010**SEED SIZE (g/100)**

| Strain | Mean 14 Tests | Belleville IL | Harrisburg IL | Brownstown IL | Urbana IL | Lafayette IN | Ashland KS | Manhattan KS |
|----------------|---------------------|------------------|------------------|------------------|--------------|-----------------|---------------|-----------------|
| LD00-3309 (IV) | 10.9 | 10.7 | 9.3 | 11.4 | 10.8 | 11.4 | 11.3 | 12.4 |
| IA4004 | 14.4 | 15.8 | 12.1 | 14.1 | 13.1 | 13.9 | 15.9 | 16.6 |
| LD00-2817P (L) | 11.6 | 12.7 | 8.7 | 13.2 | 9.7 | 12.0 | 13.6 | 13.0 |
| K07-1253 | 13.0 | 13.4 | 9.9 | 14.1 | 11.8 | 12.2 | 14.9 | 16.2 |
| LD05-30578a | 12.2 | 11.5 | 9.9 | 13.0 | 11.4 | 12.4 | 13.4 | 15.1 |
| LD06-7609 | 12.7 | 12.5 | 10.4 | 13.5 | 12.0 | 12.4 | 14.1 | 14.3 |
| LD06-7620 | 12.9 | 12.1 | 11.1 | 12.3 | 11.9 | 12.6 | 14.0 | 15.1 |
| LD06-9205 | 14.3 | 14.1 | 12.2 | 15.4 | 13.8 | 14.5 | 15.0 | 18.4 |
| LG06-5798 | 11.9 | 10.9 | 10.8 | 12.9 | 11.0 | 11.6 | 12.0 | 13.8 |
| LG06-5920 | 13.1 | 11.9 | 11.7 | 14.2 | 13.0 | 13.4 | 13.4 | 15.5 |
| LG07-9814 | 13.4 | 13.4 | 11.0 | 15.1 | 12.5 | 13.1 | 13.2 | 16.6 |
| LS05-3229 | 13.7 | 14.0 | 11.4 | 14.9 | 12.9 | 13.9 | 13.9 | 16.4 |
| TN05-3027 | 12.7 | 13.2 | 10.4 | 14.6 | 11.0 | 12.8 | 13.5 | 15.5 |

UNIFORM TEST IV, 2010**SEED QUALITY (score)**

| Strain | Ottawa KS | Lexington KY | Queenstown MD | Columbia MO | Portageville (Clay) MO | Portageville (Loam) MO | South Charleston OH | Jackson TN |
|----------------|--------------|-----------------|------------------|----------------|------------------------------|------------------------------|---------------------------|---------------|
| LD00-3309 (IV) | 2.0 | 1.0 | 1.0 | | 3.0 | 4.0 | 2.1 | 2.0 |
| IA4004 | 3.0 | 3.0 | 1.0 | | 5.0 | 4.0 | 1.6 | 3.0 |
| LD00-2817P (L) | 2.0 | 2.0 | 1.0 | | 4.0 | 5.0 | 2.1 | 3.0 |
| K07-1253 | 2.0 | 3.0 | 1.0 | | 3.0 | 4.0 | 2.0 | 3.0 |
| LD05-30578a | 3.0 | 2.0 | 1.0 | | 3.0 | 4.0 | 1.3 | 2.7 |
| LD06-7609 | 2.0 | 2.0 | 1.0 | | 3.0 | 3.0 | 2.0 | 2.7 |
| LD06-7620 | 3.0 | 3.0 | 1.0 | | 4.0 | 3.0 | 2.0 | 3.0 |
| LD06-9205 | 2.0 | 4.0 | 1.0 | | 4.0 | 3.0 | 1.9 | 2.3 |
| LG06-5798 | 2.0 | 2.0 | 1.0 | | 3.0 | 4.0 | 2.0 | 3.0 |
| LG06-5920 | 3.0 | 2.0 | 1.0 | | 3.0 | 5.0 | 1.9 | 2.7 |
| LG07-9814 | 2.0 | 3.0 | 1.0 | | 4.0 | 5.0 | 2.0 | 2.7 |
| LS05-3229 | 3.0 | 1.0 | 1.0 | | 2.0 | 3.0 | 2.0 | 3.0 |
| TN05-3027 | 2.0 | 2.0 | 1.0 | | 4.0 | 4.0 | 1.6 | 2.7 |

UNIFORM TEST IV, 2010**SEED SIZE (g/100)**

| Strain | Ottawa KS | Lexington KY | Queenstown MD | Columbia MO | Portageville (Clay) MO | Portageville (Loam) MO | South Charleston OH | Jackson TN |
|----------------|--------------|-----------------|------------------|----------------|------------------------------|------------------------------|---------------------------|---------------|
| LD00-3309 (IV) | 13.0 | 8.7 | 11.6 | | 11.3 | 9.1 | 11.3 | 10.4 |
| IA4004 | 15.8 | 12.5 | 14.9 | | 14.7 | 13.8 | 14.3 | 13.5 |
| LD00-2817P (L) | 14.3 | 10.1 | 10.5 | | 11.4 | 8.9 | 11.3 | 13.4 |
| K07-1253 | 15.7 | 10.1 | 13.3 | | 15.1 | 12.0 | 12.4 | 11.4 |
| LD05-30578a | 14.1 | 9.7 | 12.2 | | 13.0 | 9.6 | 12.9 | 12.0 |
| LD06-7609 | 14.2 | 12.8 | 12.7 | | 12.4 | 10.7 | 12.8 | 12.9 |
| LD06-7620 | 15.1 | 11.6 | 13.8 | | 12.6 | 11.1 | 13.7 | 13.9 |
| LD06-9205 | 16.4 | 11.9 | 15.3 | | 15.0 | 11.6 | 14.6 | 11.8 |
| LG06-5798 | 15.2 | 9.6 | 12.2 | | 11.5 | 10.0 | 11.5 | 13.3 |
| LG06-5920 | 15.6 | 9.9 | 14.1 | | 13.0 | 11.4 | 12.9 | 13.1 |
| LG07-9814 | 15.0 | 12.1 | 13.2 | | 13.5 | 12.5 | 12.3 | 14.0 |
| LS05-3229 | 17.6 | 9.9 | 15.7 | | 12.8 | 12.8 | 13.9 | 12.4 |
| TN05-3027 | 13.3 | 10.5 | 13.3 | | 13.0 | 11.5 | 12.4 | 12.3 |

UNIFORM TEST IV, 2010

PROTEIN (%)

| Strain | Mean | Urbana | Brownstown | Lafayette | Lexington | Ashland | Portageville | South | Jackson |
|----------------|------------|--------|------------|-----------|-----------|---------|--------------|------------------|---------|
| | 8 Tests | IL | IL | IN | KY | KS | (Loam) MO | Charleston OH | TN |
| LD00-3309 (IV) | 33.6 | 32.5 | 33.5 | 33.4 | 34.2 | 35.3 | 32.6 | 32.3 | 35.4 |
| IA4004 | 34.7 | 33.9 | 35.5 | 34.6 | 35.2 | 35.8 | 33.5 | 33.1 | 35.6 |
| LD00-2817P (L) | 31.8 | 29.5 | 32.4 | 34.0 | 34.1 | 32.9 | 29.6 | 29.0 | 32.6 |
| K07-1253 | 32.9 | 33.0 | 33.6 | 33.4 | 33.3 | 34.2 | 31.3 | 30.9 | 33.2 |
| LD05-30578a | 33.7 | 33.2 | 34.7 | 33.4 | 34.4 | 35.3 | 31.3 | 32.5 | 34.6 |
| LD06-7609 | 33.9 | 33.1 | 34.0 | 33.8 | 35.6 | 35.0 | 32.3 | 32.1 | 35.6 |
| LD06-7620 | 33.7 | 32.8 | 32.8 | 33.5 | 34.9 | 35.0 | 32.4 | 32.4 | 35.9 |
| LD06-9205 | 33.8 | 34.2 | 33.9 | 34.2 | 34.0 | 34.8 | 31.3 | 33.1 | 34.8 |
| LG06-5798 | 34.5 | 35.1 | 34.2 | 34.7 | 35.9 | 35.2 | 33.5 | 31.4 | 35.8 |
| LG06-5920 | 34.2 | 33.7 | 34.1 | 35.5 | 35.6 | 34.5 | 32.4 | 33.7 | 34.2 |
| LG07-9814 | 33.0 | 32.5 | 33.5 | 32.5 | 34.2 | 34.1 | 31.9 | 31.3 | 34.4 |
| LS05-3229 | 34.1 | 34.2 | 34.4 | 35.2 | 35.2 | 35.0 | 31.7 | 31.5 | 35.4 |
| TN05-3027 | 34.4 | 33.6 | 34.8 | 34.2 | 36.2 | 35.2 | 33.3 | 31.3 | 36.3 |

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

UNIFORM TEST IV, 2010

OIL (%)

| Strain | Mean | Urbana | Brownstown | Lafayette | Lexington | Ashland | Portageville | South | Jackson |
|----------------|------------|--------|------------|-----------|-----------|---------|--------------|------------------|---------|
| | 8 Tests | IL | IL | IN | KY | KS | (Loam) MO | Charleston OH | TN |
| LD00-3309 (IV) | 17.5 | 18.1 | 17.9 | 17.4 | 16.4 | 18.0 | 18.1 | 17.1 | 16.9 |
| IA4004 | 17.8 | 18.0 | 17.3 | 17.4 | 18.1 | 18.0 | 18.7 | 17.8 | 17.3 |
| LD00-2817P (L) | 18.5 | 19.5 | 18.4 | 18.2 | 17.8 | 19.2 | 18.4 | 19.1 | 17.3 |
| K07-1253 | 18.1 | 17.6 | 18.1 | 17.6 | 17.5 | 18.8 | 18.7 | 18.5 | 18.0 |
| LD05-30578a | 18.1 | 18.1 | 17.6 | 17.8 | 17.5 | 18.1 | 19.1 | 18.6 | 17.6 |
| LD06-7609 | 17.7 | 17.8 | 17.7 | 17.3 | 18.4 | 18.0 | 18.2 | 17.4 | 16.6 |
| LD06-7620 | 17.9 | 18.0 | 18.6 | 17.8 | 17.7 | 18.2 | 18.3 | 18.3 | 16.3 |
| LD06-9205 | 18.5 | 18.4 | 18.3 | 18.1 | 18.4 | 19.1 | 19.8 | 18.6 | 17.5 |
| LG06-5798 | 17.4 | 17.9 | 17.7 | 17.3 | 16.4 | 18.4 | 17.7 | 17.6 | 16.5 |
| LG06-5920 | 17.9 | 17.3 | 17.7 | 18.1 | 16.8 | 18.8 | 18.6 | 18.5 | 17.3 |
| LG07-9814 | 18.3 | 18.1 | 17.9 | 18.4 | 17.8 | 19.2 | 19.1 | 18.3 | 17.8 |
| LS05-3229 | 17.7 | 17.9 | 17.4 | 18.0 | 17.4 | 18.0 | 18.6 | 17.6 | 16.9 |
| TN05-3027 | 17.6 | 17.7 | 18.2 | 17.5 | 16.0 | 18.5 | 17.8 | 18.5 | 17.0 |

Preliminary Test IV, 2010

| 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. | Md 07-5100 | Md 97-6065 x Md 00-5020 | Kenworthy | F5 | |
| 5. | Md 0708WN 120 | Md selection from LG05-2870 | Kenworthy | F6 | Diverse PI background |
| 6. | Md 0708WN 122 | Md selection from LG05-2870 | Kenworthy | F6 | Diverse PI background |
| 7. | Md 0708WN 124 | Md selection from LG05-2887 | Kenworthy | F6 | Diverse PI background |
| 8. | K08-5236 | K03-2399 x K03-2897 | Schapaugh | F4 | |
| 9. | K08-5241 | K03-2399 x K03-2897 | Schapaugh | F4 | |
| 10. | K08-5258 | K03-2399 x K03-2897 | Schapaugh | F4 | |
| 11. | K08-5472 | K03-2399 x K03-3821 | Schapaugh | F4 | |
| 12. | K08-5718 | K03-2399 x IA3024 | Schapaugh | F4 | LOW LINOLENIC |
| 13. | K08-6067 | IA3023 x K03-2897 | Schapaugh | F4 | |
| 14. | K08-6336 | 133515 x K03-3821 | Schapaugh | F4 | |
| 15. | K08-6591 | K03-3821 x K03-3825 | Schapaugh | F4 | |
| 16. | LG08-4955 | LG00-7196 x S42-H1 | Nelson | F6 | Diversity |
| 17. | LG08-5093 | LN97-15076 x LG01-7884 | Nelson | F6 | Diversity |
| 18. | LS07-1343 | LN97-15076 X LD02-4485 | Klein | F5 | SCN |
| 19. | LS07-1942 | SS98-7851 x LD01-5907 | Klein | F5 | SCN |
| 20. | LS07-2016 | SS98-7851 x Maverick | Klein | F5 | SCN |
| 21. | LS07-2773 | LS93-0375 x LS98-0582 | Klein | F6 | SCN |
| 22. | LS07-3107 | SS98-7851 x LD00-3309 | Klein | F5 | SCN |
| 23. | LS07-3125 | SS98-7851 x LD00-3309 | Klein | F5 | SCN |
| 24. | LS07-3126 | SS98-7851 x LD00-3309 | Klein | F5 | SCN |
| 25. | LS07-3141 | SS98-7851 x LD00-3309 | Klein | F5 | SCN |
| 26. | S07-3260 | S03-575 x HC99-2763 | Shannon | F5 | |
| 27. | S07-5049 | S03-4152 x HC99-2763 | Shannon | F5 | |
| 28. | SS05-5632 | IA3017 X UNKNOWN | Sleper | F5 | LOW LIN |
| 29. | SS05-5633 | IA3017 X UNKNOWN | Sleper | F5 | LOW LIN |
| 30. | SS05-5637 | IA3017 X UNKNOWN | Sleper | F5 | LOW LIN |
| 31. | SS06-5657 | SS95-15348 X IA3017 | Sleper | F5 | LOW LIN |
| 32. | SS06-6815 | Big Bubba X U98-311442 | Sleper | F5 | |
| 33. | TN05-4008 | LG97-9015 x HS93-4188 | Pantalone | F5 | Diversity |

PRELIMINARY TEST IV, 2010

DESCRIPTIVE AND DISEASE DATA

| Strain | Descriptive Code | <u>Green Stem</u> | <u>Shattering</u> | <u>PR</u> | | <u>FE</u> |
|----------------|------------------|-------------------|-------------------|-----------|--------|-----------|
| | | Score | Score | Lafayette | | Laf. |
| | | Lafayette IN | Manhattan KS | Race 4 | Race 7 | a rx. |
| LD00-3309 (IV) | PTBDYBII | 1.0 | 2.0 | S | S | S |
| IA4004 | WTBDYBII | 1.0 | 2.0 | S | S | S |
| LD00-2817P (L) | PGBDYIbI | 1.0 | 2.0 | S | S | S |
| Md 07-5100 | PTTIYBII | 1.0 | 1.0 | S | S | S |
| Md 0708WN 120 | PGBDYIbI | 1.0 | 2.0 | S | S | S |
| Md 0708WN 122 | PGBDYIbI | 1.0 | 3.0 | S | S | S |
| Md 0708WN 124 | PGBDYIb+BfI | 1.0 | 3.0 | S | S | S |
| K08-5236 | P+WTTDYBII | 1.0 | 2.0 | S | R* | S |
| K08-5241 | WTBDYBII | 1.0 | 1.0 | S | R* | S |
| K08-5258 | WTTDYBII | 1.0 | 1.0 | S | S | S |
| K08-5472 | PTTDYBII | 1.0 | 1.0 | S | H* | S |
| K08-5718 | P+WT+GTDYHI | 1.0 | 1.0 | H* | R* | - |
| K08-6067 | PT+LtBDYBII | 1.0 | 1.0 | S | R* | S |
| K08-6336 | P+WT+GT+BDYHI | 1.0 | 1.0 | S | R* | S |
| K08-6591 | PLtBDYBII | 1.0 | 1.0 | H* | R* | S |
| LG08-4955 | PTBDYBrI | 1.0 | 1.0 | S | S | S |
| LG08-5093 | WGTYBII | 1.0 | 1.0 | R* | S | - |
| LS07-1343 | WTBDYBI+BrI | 1.0 | 2.0 | S | S | S |
| LS07-1942 | PGBDYLbI | 1.0 | 1.0 | R* | R* | - |
| LS07-2016 | PGBDYBfI | 1.0 | 2.0 | R* | R* | S |
| LS07-2773 | PTTDYBII | 1.0 | 1.0 | S | H* | S |
| LS07-3107 | P+WBDYBfI | 1.0 | 1.0 | H* | H* | S |
| LS07-3125 | WGBDYBfI | 1.0 | 2.0 | S | R* | S |
| LS07-3126 | WTTDYBII | 1.0 | 2.0 | S | R* | S |
| LS07-3141 | PBDYIb+BfI | 1.0 | 2.0 | R* | R* | - |
| S07-3260 | PGTDYIBI | 1.0 | 1.0 | S | S | S |
| S07-5049 | PLtTDYBII | 1.0 | 1.0 | R* | R* | S |
| SS05-5632 | PGBDYIbI | 1.0 | 1.0 | R* | R* | S |
| SS05-5633 | PGBDYIbI | 1.0 | 1.0 | R* | R* | S |
| SS05-5637 | PGBDYIbI | 1.0 | 1.0 | R* | R* | S |
| SS06-5657 | WTTDYBII | 1.0 | 1.0 | R* | R* | S |
| SS06-6815 | WGTDYI | 1.0 | 1.0 | S | H* | S |
| TN05-4008 | WGBDYBII | 1.0 | 1.0 | R* | R* | S |

PR: * = *P. sojae* inoc. Reaction NOT compatible with breeder's information about *Rps* Trait

FE: S = susceptible, - = lesions not detected, x = no data

PRELIMINARY TEST IV, 2010

REGIONAL SUMMARY

| No. of Tests Strain | Yield 9 bu/a | Rank 9 No. | Maturity 9 Date | Lodging 9 Score | Plant Height 8 IL. | Seed Quality 7 Score | Seed Size 7 g/100 | Composition | |
|------------------------|--------------------|------------------|-----------------------|-----------------------|-----------------------------|-------------------------------|----------------------------|-------------------|---------------|
| | | | | | | | | Protein 4 % | Oil 4 % |
| LD00-3309 (IV) | 55.2 | 11 | 9/25 | 1.6 | 38 | 1.4 | 10.8 | 33.4 | 17.7 |
| IA4004 | 54.1 | 13 | -1.3 | 2.3 | 38 | 2.1 | 15.1 | 35.0 | 17.7 |
| LD00-2817P (L) | 56.0 | 4 | 5.3 | 2.1 | 43 | 1.8 | 11.6 | 31.3 | 18.5 |
| Md 07-5100 | 49.3 | 29 | 12.5 | 2.0 | 37 | 1.7 | 12.0 | 33.5 | 17.4 |
| Md 0708WN 120 | 55.7 | 8 | 3.2 | 2.4 | 42 | 1.4 | 13.8 | 34.1 | 17.3 |
| Md 0708WN 122 | 52.3 | 21 | 0.1 | 2.5 | 39 | 1.8 | 14.5 | 33.8 | 17.9 |
| Md 0708WN 124 | 51.3 | 25 | -2.0 | 2.1 | 41 | 1.7 | 14.6 | 33.9 | 18.4 |
| K08-5236 | 52.9 | 17 | 2.2 | 1.7 | 42 | 1.5 | 12.9 | 33.3 | 18.1 |
| K08-5241 | 52.8 | 18 | 4.0 | 2.6 | 43 | 1.4 | 13.8 | 33.8 | 17.9 |
| K08-5258 | 55.9 | 5 | 5.1 | 2.2 | 41 | 1.7 | 14.1 | 34.0 | 17.5 |
| K08-5472 | 52.0 | 23 | 7.3 | 1.8 | 43 | 1.8 | 14.8 | 35.3 | 17.6 |
| K08-5718 | 55.9 | 5 | 4.4 | 2.3 | 41 | 1.8 | 12.8 | 33.3 | 18.4 |
| K08-6067 | 57.7 | 1 | 3.8 | 1.9 | 42 | 1.3 | 14.2 | 32.9 | 18.5 |
| K08-6336 | 52.7 | 20 | 8.8 | 1.8 | 42 | 1.3 | 14.8 | 35.5 | 17.1 |
| K08-6591 | 48.7 | 30 | 8.6 | 1.6 | 39 | 1.6 | 14.2 | 35.8 | 16.4 |
| LG08-4955 | 51.0 | 26 | 5.7 | 2.5 | 47 | 1.8 | 16.1 | 35.3 | 17.3 |
| LG08-5093 | 51.9 | 24 | 2.8 | 2.0 | 45 | 1.6 | 15.0 | 34.1 | 17.9 |
| LS07-1343 | 56.3 | 3 | 1.7 | 2.8 | 37 | 1.6 | 13.7 | 32.8 | 18.6 |
| LS07-1942 | 55.9 | 5 | 3.6 | 1.8 | 43 | 1.7 | 14.2 | 33.1 | 18.4 |
| LS07-2016 | 53.3 | 16 | 2.1 | 2.3 | 45 | 1.7 | 13.8 | 34.1 | 17.7 |
| LS07-2773 | 51.0 | 26 | 3.8 | 1.7 | 40 | 1.3 | 13.6 | 34.3 | 18.0 |
| LS07-3107 | 54.0 | 14 | -0.2 | 1.5 | 36 | 1.6 | 12.8 | 33.5 | 18.3 |
| LS07-3125 | 56.7 | 2 | 1.8 | 1.8 | 41 | 1.4 | 12.3 | 33.3 | 18.8 |
| LS07-3126 | 54.3 | 12 | 1.1 | 1.5 | 40 | 1.8 | 12.6 | 33.7 | 18.2 |
| LS07-3141 | 55.5 | 10 | -0.6 | 1.8 | 39 | 1.6 | 14.5 | 35.0 | 17.7 |
| S07-3260 | 48.4 | 31 | 5.0 | 2.4 | 42 | 1.3 | 13.5 | 34.0 | 17.7 |
| S07-5049 | 53.8 | 15 | 4.8 | 2.2 | 40 | 1.4 | 13.1 | 34.5 | 16.7 |
| SS05-5632 | 52.1 | 22 | 6.0 | 1.8 | 42 | 1.7 | 14.6 | 33.9 | 18.3 |
| SS05-5633 | 55.7 | 8 | 6.8 | 2.0 | 43 | 1.4 | 14.4 | 33.4 | 18.7 |
| SS05-5637 | 52.8 | 18 | 5.6 | 2.0 | 42 | 2.1 | 13.8 | 34.2 | 18.0 |
| SS06-5657 | 50.4 | 28 | 6.7 | 1.7 | 39 | 1.4 | 13.4 | 33.6 | 17.7 |
| SS06-6815 | 46.8 | 33 | 2.3 | 1.4 | 36 | 1.5 | 14.6 | 33.9 | 18.7 |
| TN05-4008 | 48.4 | 32 | 2.6 | 2.4 | 41 | 1.5 | 12.1 | 33.0 | 18.1 |

122.5 Days After Planting

PRELIMINARY TEST IV, 2010

YIELD (bu/a)

| Strain | Mean | Belleville IL | Harrisburg IL | Urbana IL | Lafayette IN | Ashland KS | Manhattan KS | Queenstown MD | Columbia MO | Portageville |
|----------------|------------|------------------|------------------|--------------|-----------------|---------------|-----------------|------------------|----------------|--------------|
| | 9 Tests | | | | | | | | | (Clay) MO |
| LD00-3309 (IV) | 55.2 | 51.4 | 54.2 | 65.7 | 60.5 | 50.8 | 51.1 | 52.8 | 51.6 | 55.0 |
| IA4004 | 54.1 | 58.7 | 60.0 | 63.6 | 60.4 | 52.9 | 56.3 | 37.5 | 48.5 | 53.4 |
| LD00-2817P (L) | 56.0 | 56.9 | 53.7 | 57.9 | 58.4 | 53.2 | 56.3 | 60.7 | 51.6 | 56.3 |
| Md 07-5100 | 49.3 | 65.7 | 51.8 | 47.8 | 53.1 | 46.8 | 42.7 | 55.0 | 49.0 | 48.0 |
| Md 0708WN 120 | 55.7 | 55.7 | 56.1 | 61.5 | 56.3 | 56.1 | 55.9 | 46.7 | 54.7 | 58.6 |
| Md 0708WN 122 | 52.3 | 59.0 | 52.8 | 58.7 | 52.2 | 55.0 | 56.6 | 41.5 | 52.3 | 49.5 |
| Md 0708WN 124 | 51.3 | 57.7 | 47.0 | 63.6 | 53.5 | 49.9 | 46.3 | 50.8 | 50.6 | 48.7 |
| K08-5236 | 52.9 | 57.3 | 56.1 | 58.1 | 48.6 | 55.0 | 46.4 | 51.9 | 51.9 | 55.0 |
| K08-5241 | 52.8 | 54.5 | 49.4 | 64.9 | 58.5 | 46.3 | 38.5 | 52.8 | 51.5 | 60.8 |
| K08-5258 | 55.9 | 64.0 | 53.7 | 61.9 | 61.8 | 51.6 | 53.0 | 51.6 | 54.7 | 58.7 |
| K08-5472 | 52.0 | 64.5 | 49.9 | 58.3 | 51.1 | 47.5 | 47.1 | 47.1 | 56.7 | 58.0 |
| K08-5718 | 55.9 | 57.9 | 54.2 | 61.6 | 58.1 | 53.2 | 57.7 | 47.6 | 49.8 | 64.9 |
| K08-6067 | 57.7 | 63.5 | 57.6 | 64.4 | 59.5 | 56.4 | 51.1 | 54.8 | 53.8 | 63.8 |
| K08-6336 | 52.7 | 59.8 | 50.8 | 65.7 | 57.3 | 49.1 | 38.1 | 49.0 | 52.0 | 59.8 |
| K08-6591 | 48.7 | 62.2 | 49.9 | 62.6 | 52.7 | 45.0 | 34.9 | 37.4 | 53.3 | 53.6 |
| LG08-4955 | 51.0 | 47.5 | 49.9 | 66.7 | 56.2 | 46.3 | 40.7 | 46.1 | 52.3 | 49.7 |
| LG08-5093 | 51.9 | 45.5 | 47.4 | 64.4 | 45.7 | 59.0 | 47.4 | 43.2 | 55.5 | 52.3 |
| LS07-1343 | 56.3 | 57.5 | 60.5 | 64.5 | 60.5 | 53.2 | 45.5 | 46.6 | 58.3 | 61.6 |
| LS07-1942 | 55.9 | 57.3 | 52.3 | 61.4 | 58.4 | 51.5 | 51.0 | 56.8 | 56.1 | 59.8 |
| LS07-2016 | 53.3 | 61.8 | 47.4 | 66.8 | 58.7 | 51.1 | 57.8 | 47.9 | 48.2 | 48.8 |
| LS07-2773 | 51.0 | 51.1 | 49.4 | 61.7 | 56.1 | 42.1 | 36.3 | 52.8 | 54.5 | 55.3 |
| LS07-3107 | 54.0 | 51.5 | 59.0 | 61.1 | 55.8 | 54.0 | 38.2 | 54.3 | 55.7 | 53.6 |
| LS07-3125 | 56.7 | 56.2 | 65.3 | 61.8 | 54.6 | 50.1 | 48.2 | 57.1 | 57.6 | 59.0 |
| LS07-3126 | 54.3 | 60.8 | 54.2 | 61.2 | 59.9 | 47.3 | 42.9 | 54.7 | 53.8 | 60.1 |
| LS07-3141 | 55.5 | 61.3 | 60.5 | 62.7 | 59.8 | 49.3 | 50.2 | 55.1 | 52.1 | 54.0 |
| S07-3260 | 48.4 | 53.7 | 49.4 | 51.4 | 51.1 | 42.0 | 37.1 | 36.2 | 57.7 | 62.1 |
| S07-5049 | 53.8 | 58.5 | 51.3 | 58.5 | 50.9 | 49.6 | 43.9 | 52.0 | 62.3 | 62.2 |
| SS05-5632 | 52.1 | 59.6 | 51.8 | 61.3 | 41.8 | 48.6 | 53.2 | 38.3 | 57.4 | 64.1 |
| SS05-5633 | 55.7 | 57.9 | 52.8 | 65.6 | 51.0 | 53.9 | 56.0 | 46.8 | 59.2 | 60.7 |
| SS05-5637 | 52.8 | 63.6 | 52.8 | 62.3 | 49.5 | 49.9 | 53.4 | 36.3 | 55.3 | 62.6 |
| SS06-5657 | 50.4 | 53.9 | 51.8 | 59.3 | 43.0 | 49.4 | 45.2 | 41.9 | 52.0 | 60.9 |
| SS06-6815 | 46.8 | 56.1 | 51.8 | 59.0 | 44.5 | 40.5 | 37.6 | 41.0 | 45.6 | 54.3 |
| TN05-4008 | 48.4 | 50.8 | 46.0 | 63.9 | 42.6 | 48.6 | 35.3 | 41.3 | 52.7 | 56.6 |
| Location Mean | | 57.4 | 53.1 | 61.5 | 54.0 | 50.1 | 47.0 | 48.0 | 53.6 | 57.0 |
| C.V. (%) | | 8.1 | 6.2 | 5.3 | 9.2 | 4.9 | 8.2 | 10.6 | 6.0 | 7.2 |
| L.S.D. (5%) | | 9.5 | 6.7 | 6.6 | 11.0 | 4.1 | 6.5 | 10.4 | 5.5 | 8.3 |
| Row Sp. (IN.) | | 30 | 30 | 30 | 30 | 30 | 30 | 24 | 30 | 30 |
| Rows/Plot | | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Reps | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |

*Data not included in mean.

PRELIMINARY TEST IV, 2010

YIELD RANK

| Strain | Yield Rank | Belleville | Harrisburg | Urbana | Lafayette | Ashland | Manhattan | Queenstown | Columbia | Portageville |
|----------------|------------|------------|------------|--------|-----------|---------|-----------|------------|----------|--------------|
| | | IL | IL | IL | IN | KS | KS | MD | MO | (Clay) MO |
| LD00-3309 (IV) | 11 | 29 | 10 | 3 | 3 | 15 | 11 | 9 | 25 | 21 |
| IA4004 | 13 | 13 | 4 | 11 | 4 | 11 | 4 | 30 | 31 | 27 |
| LD00-2817P (L) | 4 | 21 | 12 | 31 | 10 | 8 | 4 | 1 | 25 | 19 |
| Md 07-5100 | 29 | 1 | 19 | 33 | 20 | 27 | 24 | 5 | 30 | 33 |
| Md 0708WN 120 | 8 | 24 | 7 | 20 | 14 | 3 | 7 | 21 | 12 | 16 |
| Md 0708WN 122 | 21 | 12 | 15 | 27 | 22 | 4 | 3 | 26 | 19 | 30 |
| Md 0708WN 124 | 25 | 17 | 32 | 11 | 19 | 17 | 19 | 15 | 28 | 32 |
| K08-5236 | 17 | 19 | 8 | 30 | 28 | 4 | 18 | 13 | 24 | 21 |
| K08-5241 | 18 | 25 | 27 | 6 | 9 | 28 | 26 | 9 | 27 | 9 |
| K08-5258 | 5 | 3 | 13 | 16 | 1 | 12 | 10 | 14 | 12 | 15 |
| K08-5472 | 23 | 2 | 25 | 29 | 23 | 25 | 17 | 19 | 7 | 17 |
| K08-5718 | 5 | 15 | 9 | 19 | 12 | 8 | 2 | 18 | 29 | 1 |
| K08-6067 | 1 | 5 | 6 | 8 | 7 | 2 | 11 | 6 | 15 | 3 |
| K08-6336 | 20 | 10 | 23 | 3 | 13 | 22 | 28 | 16 | 22 | 12 |
| K08-6591 | 30 | 6 | 24 | 14 | 21 | 30 | 33 | 31 | 17 | 25 |
| LG08-4955 | 26 | 32 | 25 | 2 | 15 | 28 | 25 | 23 | 19 | 29 |
| LG08-5093 | 24 | 33 | 30 | 8 | 29 | 1 | 16 | 24 | 10 | 28 |
| LS07-1343 | 3 | 18 | 2 | 7 | 2 | 8 | 20 | 22 | 3 | 7 |
| LS07-1942 | 5 | 19 | 17 | 21 | 10 | 13 | 13 | 3 | 8 | 12 |
| LS07-2016 | 16 | 7 | 30 | 1 | 8 | 14 | 1 | 17 | 32 | 31 |
| LS07-2773 | 26 | 30 | 28 | 18 | 16 | 31 | 31 | 9 | 14 | 20 |
| LS07-3107 | 14 | 28 | 5 | 24 | 17 | 6 | 27 | 8 | 9 | 25 |
| LS07-3125 | 2 | 22 | 1 | 17 | 18 | 16 | 15 | 2 | 5 | 14 |
| LS07-3126 | 12 | 9 | 10 | 23 | 5 | 26 | 23 | 7 | 15 | 11 |
| LS07-3141 | 10 | 8 | 2 | 13 | 6 | 21 | 14 | 4 | 21 | 24 |
| S07-3260 | 31 | 27 | 28 | 32 | 23 | 32 | 30 | 33 | 4 | 6 |
| S07-5049 | 15 | 14 | 22 | 28 | 26 | 19 | 22 | 12 | 1 | 5 |
| SS05-5632 | 22 | 11 | 18 | 22 | 33 | 23 | 9 | 29 | 6 | 2 |
| SS05-5633 | 8 | 16 | 14 | 5 | 25 | 7 | 6 | 20 | 2 | 10 |
| SS05-5637 | 18 | 4 | 15 | 15 | 27 | 17 | 8 | 32 | 11 | 4 |
| SS06-5657 | 28 | 26 | 19 | 25 | 31 | 20 | 21 | 25 | 22 | 8 |
| SS06-6815 | 33 | 23 | 19 | 26 | 30 | 33 | 29 | 28 | 33 | 23 |
| TN05-4008 | 32 | 31 | 33 | 10 | 32 | 23 | 32 | 27 | 18 | 18 |

PRELIMINARY TEST IV, 2010

MATURITY (date)

| Strain | Mean | Portageville | | | | | | | | |
|----------------|---------|---------------|---------------|-----------|--------------|------------|--------------|---------------|-------------|-----------|
| | 9 Tests | Belleville IL | Harrisburg IL | Urbana IL | Lafayette IN | Ashland KS | Manhattan KS | Queenstown MD | Columbia MO | (Clay) MO |
| LD00-3309 (IV) | 9/25 | 9/26 | 9/10 | 9/25 | 9/30 | 10/4 | 9/23 | 10/7 | 9/25 | 9/21 |
| IA4004 | -1.3 | -1 | -2 | -4 | -4 | -3 | 4 | -1 | -1 | 1 |
| LD00-2817P (L) | 5.3 | 6 | 6 | 5 | 3 | 5 | 13 | 1 | 5 | 4 |
| Md 07-5100 | 12.5 | 12 | 16 | 21 | 7 | 12 | 17 | 5 | 10 | 12 |
| Md 0708WN 120 | 3.2 | 3 | 4 | 3 | 6 | 1 | 8 | -1 | 3 | 2 |
| Md 0708WN 122 | 0.1 | 1 | -2 | -3 | -4 | 4 | 6 | 0 | 0 | 0 |
| Md 0708WN 124 | -2.0 | -1 | -3 | -4 | -4 | -5 | 0 | 0 | -1 | 1 |
| K08-5236 | 2.2 | 1 | 2 | 2 | 0 | 4 | 5 | 0 | 3 | 2 |
| K08-5241 | 4.0 | 6 | 7 | 6 | 4 | 2 | 2 | 1 | 5 | 5 |
| K08-5258 | 5.1 | 8 | 5 | 4 | 2 | 6 | 12 | 2 | 7 | 2 |
| K08-5472 | 7.3 | 10 | 10 | 6 | 7 | 8 | 13 | 2 | 7 | 5 |
| K08-5718 | 4.4 | 5 | 3 | 2 | 3 | 7 | 12 | 3 | 4 | 2 |
| K08-6067 | 3.8 | 9 | 3 | 4 | 3 | 7 | 5 | 0 | 4 | 4 |
| K08-6336 | 8.8 | 12 | 11 | 8 | 8 | 12 | 13 | 3 | 8 | 8 |
| K08-6591 | 8.6 | 12 | 13 | 9 | 10 | 10 | 10 | 5 | 8 | 4 |
| LG08-4955 | 5.7 | 8 | 9 | 4 | 7 | 6 | 7 | 2 | 6 | 4 |
| LG08-5093 | 2.8 | 0 | 4 | 5 | 2 | 4 | 6 | 0 | 2 | 0 |
| LS07-1343 | 1.7 | 3 | 4 | 0 | -2 | 3 | 3 | 1 | 2 | 2 |
| LS07-1942 | 3.6 | 6 | 5 | 6 | 2 | 2 | 9 | -1 | 4 | 1 |
| LS07-2016 | 2.1 | 2 | -1 | 3 | 1 | 2 | 11 | 0 | 1 | 0 |
| LS07-2773 | 3.8 | 7 | 7 | 5 | 3 | 1 | 9 | 1 | 4 | 0 |
| LS07-3107 | -0.2 | 2 | 1 | 2 | -1 | 1 | -1 | -1 | 0 | -2 |
| LS07-3125 | 1.8 | 2 | 6 | 2 | 3 | 0 | 0 | 1 | 2 | 0 |
| LS07-3126 | 1.1 | 2 | 4 | 1 | 1 | -3 | 5 | 0 | 2 | -1 |
| LS07-3141 | -0.6 | 2 | -1 | -3 | -3 | -1 | 6 | -1 | -1 | -1 |
| S07-3260 | 5.0 | 7 | 8 | 4 | 3 | 5 | 9 | 2 | 6 | 3 |
| S07-5049 | 4.8 | 5 | 7 | 4 | 4 | 2 | 10 | 2 | 7 | 3 |
| SS05-5632 | 6.0 | 10 | 10 | 6 | 4 | 5 | 11 | 3 | 7 | 2 |
| SS05-5633 | 6.8 | 10 | 11 | 7 | 3 | 3 | 16 | 3 | 7 | 4 |
| SS05-5637 | 5.6 | 10 | 9 | 5 | 4 | 5 | 10 | 2 | 7 | 3 |
| SS06-5657 | 6.7 | 9 | 9 | 5 | 4 | 11 | 16 | 0 | 7 | 2 |
| SS06-6815 | 2.3 | 3 | 5 | 2 | 0 | -1 | 7 | 1 | 2 | 2 |
| TN05-4008 | 2.6 | 7 | 4 | 2 | 1 | 2 | 3 | 0 | 6 | 3 |
| Date Planted | 5/26 | 6/3 | 5/18 | 5/26 | 5/26 | 6/3 | 5/27 | 5/26 | 5/26 | 5/26 |
| Days to Mature | 123 | 118 | 115 | 122 | 127 | 123 | 119 | 134 | 122 | 118 |

PRELIMINARY TEST IV, 2010

LODGING (score)

| Strain | Mean | Belleville IL | Harrisburg IL | Urbana IL | Lafayette IN | Ashland KS | Manhattan KS | Queenstown MD | Columbia MO | Portageville |
|----------------|------------|------------------|------------------|--------------|-----------------|---------------|-----------------|------------------|----------------|--------------|
| | 9 Tests | | | | | | | | | (Clay) MO |
| LD00-3309 (IV) | 1.6 | 4.0 | 1.0 | 1.0 | 1.0 | 2.2 | 3.1 | 2.0 | 1.5 | 1.0 |
| IA4004 | 2.3 | 4.0 | 2.0 | 1.5 | 1.5 | 2.5 | 4.0 | 2.0 | 2.5 | 2.0 |
| LD00-2817P (L) | 2.1 | 3.0 | 1.5 | 1.3 | 1.0 | 2.1 | 3.8 | 2.5 | 2.5 | 2.0 |
| Md 07-5100 | 2.0 | 3.0 | 3.0 | 1.0 | 1.0 | 2.0 | 4.0 | 2.0 | 2.0 | 1.0 |
| Md 0708WN 120 | 2.4 | 4.0 | 2.5 | 1.8 | 1.3 | 3.3 | 3.7 | 2.5 | 2.0 | 2.0 |
| Md 0708WN 122 | 2.5 | 4.0 | 4.0 | 1.5 | 1.8 | 2.4 | 3.1 | 2.0 | 3.0 | 2.0 |
| Md 0708WN 124 | 2.1 | 2.5 | 2.0 | 1.5 | 1.0 | 2.0 | 3.7 | 2.5 | 2.0 | 2.0 |
| K08-5236 | 1.7 | 2.5 | 1.0 | 1.3 | 1.0 | 2.0 | 3.1 | 2.0 | 2.0 | 1.5 |
| K08-5241 | 2.6 | 3.5 | 2.0 | 2.3 | 1.5 | 2.7 | 3.9 | 2.3 | 3.0 | 3.0 |
| K08-5258 | 2.2 | 4.0 | 2.0 | 1.5 | 1.5 | 2.2 | 3.8 | 2.5 | 2.0 | 2.0 |
| K08-5472 | 1.8 | 3.0 | 2.0 | 1.3 | 1.0 | 1.6 | 2.7 | 1.5 | 2.0 | 2.0 |
| K08-5718 | 2.3 | 3.5 | 2.0 | 1.5 | 1.8 | 2.0 | 3.7 | 3.0 | 2.5 | 2.0 |
| K08-6067 | 1.9 | 3.5 | 2.0 | 1.5 | 1.0 | 1.9 | 3.3 | 1.8 | 2.0 | 2.0 |
| K08-6336 | 1.8 | 4.0 | 1.5 | 1.3 | 1.0 | 2.0 | 2.9 | 1.5 | 3.0 | 1.0 |
| K08-6591 | 1.6 | 2.5 | 1.0 | 1.0 | 1.0 | 1.9 | 4.1 | 1.0 | 2.0 | 1.0 |
| LG08-4955 | 2.5 | 3.5 | 2.0 | 1.5 | 1.3 | 3.3 | 3.5 | 2.5 | 2.5 | 3.0 |
| LG08-5093 | 2.0 | 2.0 | 2.0 | 1.5 | 1.0 | 1.8 | 3.4 | 2.0 | 2.0 | 2.0 |
| LS07-1343 | 2.8 | 4.0 | 4.0 | 2.0 | 1.5 | 3.1 | 4.7 | 2.3 | 2.0 | 3.0 |
| LS07-1942 | 1.8 | 2.5 | 1.0 | 1.5 | 1.0 | 1.4 | 2.4 | 2.8 | 2.0 | 2.0 |
| LS07-2016 | 2.3 | 3.0 | 1.5 | 1.5 | 1.5 | 2.1 | 3.7 | 3.0 | 2.0 | 3.0 |
| LS07-2773 | 1.7 | 4.0 | 1.0 | 1.0 | 1.0 | 2.0 | 3.0 | 2.5 | 1.0 | 2.0 |
| LS07-3107 | 1.5 | 4.0 | 1.0 | 1.0 | 1.0 | 2.1 | 3.2 | 1.5 | 1.5 | 1.0 |
| LS07-3125 | 1.8 | 2.5 | 1.0 | 1.0 | 1.0 | 2.3 | 3.9 | 1.3 | 1.5 | 2.0 |
| LS07-3126 | 1.5 | 2.5 | 1.0 | 1.0 | 1.0 | 2.3 | 2.5 | 1.8 | 1.5 | 1.0 |
| LS07-3141 | 1.8 | 2.5 | 1.0 | 1.5 | 1.0 | 2.0 | 4.2 | 2.3 | 1.5 | 1.0 |
| S07-3260 | 2.4 | 4.0 | 3.0 | 1.8 | 1.8 | 2.0 | 2.9 | 1.8 | 2.5 | 3.0 |
| S07-5049 | 2.2 | 3.5 | 2.5 | 1.5 | 1.0 | 2.1 | 2.3 | 2.5 | 2.5 | 3.0 |
| SS05-5632 | 1.8 | 4.0 | 2.0 | 1.0 | 1.0 | 1.8 | 2.0 | 1.5 | 2.0 | 3.0 |
| SS05-5633 | 2.0 | 2.5 | 2.0 | 1.3 | 1.0 | 1.9 | 3.2 | 2.3 | 1.5 | 3.0 |
| SS05-5637 | 2.0 | 3.0 | 2.0 | 1.3 | 1.0 | 2.1 | 2.9 | 1.5 | 2.0 | 3.0 |
| SS06-5657 | 1.7 | 3.0 | 1.0 | 1.0 | 1.0 | 2.1 | 3.4 | 1.0 | 2.0 | 2.0 |
| SS06-6815 | 1.4 | 3.0 | 1.0 | 1.0 | 1.0 | 1.8 | 2.3 | 1.0 | 1.0 | 2.0 |
| TN05-4008 | 2.4 | 4.5 | 3.0 | 1.3 | 1.0 | 2.6 | 4.0 | 2.0 | 2.0 | 3.0 |

PRELIMINARY TEST IV, 2010

PLANT HEIGHT (Inches)

| Strain | Mean | Belleville IL | Harrisburg IL | Urbana IL | Lafayette IN | Ashland KS | Manhattan KS | Queenstown MD | Columbia MO | Portageville |
|----------------|------------|------------------|------------------|--------------|-----------------|---------------|-----------------|------------------|----------------|--------------|
| | 8 Tests | | | | | | | | | (Clay) MO |
| LD00-3309 (IV) | 38 | 43 | 44 | 36 | 40 | 48 | 41 | 32 | | 28 |
| IA4004 | 38 | 46 | 46 | 35 | 44 | 39 | 40 | 32 | | 29 |
| LD00-2817P (L) | 43 | 42 | 49 | 38 | 45 | 47 | 51 | 40 | | 34 |
| Md 07-5100 | 37 | 40 | 41 | 38 | 45 | 38 | 42 | 31 | | 27 |
| Md 0708WN 120 | 42 | 47 | 51 | 40 | 44 | 43 | 48 | 35 | | 32 |
| Md 0708WN 122 | 39 | 43 | 48 | 36 | 44 | 40 | 47 | 31 | | 30 |
| Md 0708WN 124 | 41 | 44 | 45 | 37 | 44 | 45 | 50 | 33 | | 30 |
| K08-5236 | 42 | 46 | 48 | 38 | 44 | 43 | 54 | 35 | | 36 |
| K08-5241 | 43 | 45 | 50 | 39 | 46 | 46 | 43 | 38 | | 37 |
| K08-5258 | 41 | 42 | 48 | 36 | 48 | 39 | 43 | 39 | | 34 |
| K08-5472 | 43 | 49 | 50 | 39 | 46 | 42 | 55 | 37 | | 33 |
| K08-5718 | 41 | 47 | 45 | 35 | 45 | 45 | 43 | 37 | | 38 |
| K08-6067 | 42 | 47 | 47 | 38 | 47 | 43 | 49 | 34 | | 36 |
| K08-6336 | 42 | 43 | 50 | 40 | 49 | 45 | 41 | 40 | | 32 |
| K08-6591 | 39 | 44 | 45 | 39 | 45 | 43 | 34 | 35 | | 30 |
| LG08-4955 | 47 | 53 | 52 | 44 | 48 | 53 | 53 | 44 | | 36 |
| LG08-5093 | 45 | 55 | 49 | 43 | 50 | 54 | 52 | 37 | | 30 |
| LS07-1343 | 37 | 41 | 42 | 32 | 39 | 42 | 41 | 31 | | 31 |
| LS07-1942 | 43 | 48 | 49 | 42 | 46 | 49 | 41 | 38 | | 37 |
| LS07-2016 | 45 | 55 | 52 | 40 | 49 | 56 | 46 | 37 | | 36 |
| LS07-2773 | 40 | 45 | 45 | 40 | 42 | 41 | 46 | 37 | | 32 |
| LS07-3107 | 36 | 44 | 41 | 37 | 37 | 38 | 36 | 31 | | 32 |
| LS07-3125 | 41 | 43 | 47 | 41 | 42 | 46 | 48 | 32 | | 31 |
| LS07-3126 | 40 | 45 | 45 | 40 | 42 | 47 | 43 | 33 | | 30 |
| LS07-3141 | 39 | 47 | 47 | 35 | 42 | 44 | 45 | 33 | | 28 |
| S07-3260 | 42 | 54 | 47 | 41 | 45 | 50 | 47 | 36 | | 30 |
| S07-5049 | 40 | 44 | 46 | 39 | 45 | 42 | 42 | 37 | | 31 |
| SS05-5632 | 42 | 47 | 50 | 41 | 44 | 43 | 45 | 36 | | 37 |
| SS05-5633 | 43 | 50 | 50 | 43 | 44 | 41 | 49 | 37 | | 36 |
| SS05-5637 | 42 | 47 | 46 | 38 | 44 | 49 | 47 | 35 | | 37 |
| SS06-5657 | 39 | 49 | 45 | 36 | 40 | 41 | 47 | 31 | | 36 |
| SS06-6815 | 36 | 44 | 40 | 33 | 37 | 41 | 43 | 31 | | 26 |
| TN05-4008 | 41 | 46 | 45 | 38 | 42 | 39 | 53 | 34 | | 34 |

PRELIMINARY TEST IV, 2010

SEED QUALITY (score)

| Strain | Mean | Portageville | | | | | | | | |
|----------------|------------|------------------|------------------|------------------|-----------------|---------------|-----------------|------------------|----------------|--------------|
| | 7 Tests | Belleville IL | Belleville IL | Harrisburg IL | Lafayette IN | Ashland KS | Manhattan KS | Queenstown MD | Columbia MO | (Clay) MO |
| LD00-3309 (IV) | 1.4 | 1.0 | 1.0 | 1.0 | 1.0 | 2.0 | | 1.5 | | 2.0 |
| IA4004 | 2.1 | 2.0 | 3.0 | 1.0 | 1.0 | 3.0 | | 1.5 | | 3.0 |
| LD00-2817P (L) | 1.8 | 2.0 | 2.0 | 1.0 | 1.0 | 2.0 | | 1.5 | | 3.0 |
| Md 07-5100 | 1.7 | 3.0 | 1.0 | 3.0 | 1.0 | 2.0 | | 1.0 | | 2.0 |
| Md 0708WN 120 | 1.4 | 2.0 | 1.0 | 1.0 | 1.0 | 2.0 | | 1.3 | | 2.0 |
| Md 0708WN 122 | 1.8 | 2.0 | 2.0 | 2.0 | 1.0 | 2.0 | | 1.0 | | 3.0 |
| Md 0708WN 124 | 1.7 | 1.0 | 2.0 | 1.0 | 1.0 | 2.0 | | 1.0 | | 3.0 |
| K08-5236 | 1.5 | 1.0 | 1.0 | 1.0 | 1.0 | 2.0 | | 1.0 | | 3.0 |
| K08-5241 | 1.4 | 2.0 | 1.0 | 1.0 | 1.0 | 2.0 | | 1.3 | | 2.0 |
| K08-5258 | 1.7 | 1.0 | 2.0 | 1.0 | 1.0 | 2.0 | | 1.0 | | 3.0 |
| K08-5472 | 1.8 | 2.0 | 2.0 | 1.0 | 1.0 | 2.0 | | 1.5 | | 3.0 |
| K08-5718 | 1.8 | 2.0 | 2.0 | 1.0 | 1.0 | 2.0 | | 1.5 | | 3.0 |
| K08-6067 | 1.3 | 1.0 | 1.0 | 1.0 | 1.0 | 2.0 | | 1.0 | | 2.0 |
| K08-6336 | 1.3 | 2.0 | 1.0 | 1.0 | 1.0 | 2.0 | | 1.0 | | 2.0 |
| K08-6591 | 1.6 | 1.0 | 1.0 | 1.0 | 1.0 | 2.0 | | 1.5 | | 3.0 |
| LG08-4955 | 1.8 | 3.0 | 2.0 | 1.0 | 1.0 | 3.0 | | 1.0 | | 3.0 |
| LG08-5093 | 1.6 | 1.0 | 1.0 | 1.0 | 1.0 | 2.0 | | 1.5 | | 3.0 |
| LS07-1343 | 1.6 | 2.0 | 2.0 | 1.0 | 1.0 | 2.0 | | 1.8 | | 2.0 |
| LS07-1942 | 1.7 | 1.0 | 1.0 | 1.0 | 1.0 | 2.0 | | 2.0 | | 3.0 |
| LS07-2016 | 1.7 | 1.0 | 1.0 | 1.0 | 1.0 | 2.0 | | 2.0 | | 3.0 |
| LS07-2773 | 1.3 | 1.0 | 1.0 | 1.0 | 1.0 | 2.0 | | 1.0 | | 2.0 |
| LS07-3107 | 1.6 | 1.0 | 1.0 | 1.0 | 1.0 | 2.0 | | 1.5 | | 3.0 |
| LS07-3125 | 1.4 | 1.0 | 1.0 | 1.0 | 1.0 | 2.0 | | 1.5 | | 2.0 |
| LS07-3126 | 1.8 | 1.0 | 2.0 | 1.0 | 1.0 | 2.0 | | 1.8 | | 3.0 |
| LS07-3141 | 1.6 | 1.0 | 1.0 | 1.0 | 1.0 | 2.0 | | 1.3 | | 3.0 |
| S07-3260 | 1.3 | 1.0 | 1.0 | 1.0 | 1.0 | 2.0 | | 1.0 | | 2.0 |
| S07-5049 | 1.4 | 1.0 | 1.0 | 1.0 | 1.0 | 2.0 | | 1.3 | | 2.0 |
| SS05-5632 | 1.7 | 1.0 | 2.0 | 1.0 | 1.0 | 2.0 | | 2.0 | | 2.0 |
| SS05-5633 | 1.4 | 1.0 | 1.0 | 1.0 | 1.0 | 2.0 | | 1.5 | | 2.0 |
| SS05-5637 | 2.1 | 4.0 | 3.0 | 1.0 | 1.0 | 2.0 | | 2.3 | | 3.0 |
| SS06-5657 | 1.4 | 3.0 | 1.0 | 1.0 | 1.0 | 2.0 | | 1.5 | | 2.0 |
| SS06-6815 | 1.5 | 1.0 | 1.0 | 1.0 | 1.0 | 2.0 | | 2.0 | | 2.0 |
| TN05-4008 | 1.5 | 1.0 | 1.0 | 1.0 | 1.0 | 2.0 | | 1.0 | | 3.0 |

PRELIMINARY TEST IV, 2010

SEED SIZE (g/100)

| Strain | Mean | Belleville IL | Harrisburg IL | Urbana IL | Lafayette IN | Ashland KS | Manhattan KS | Queenstown MD | Columbia MO | Portageville |
|----------------|------------|------------------|------------------|--------------|-----------------|---------------|-----------------|------------------|----------------|--------------|
| | 7 Tests | | | | | | | | | (Clay) MO |
| LD00-3309 (IV) | 10.8 | 10.8 | 8.5 | 10.8 | 11.3 | 12.3 | | 12.3 | | 9.7 |
| IA4004 | 15.1 | 16.2 | 12.5 | 13.7 | 15.1 | 16.1 | | 17.3 | | 16.1 |
| LD00-2817P (L) | 11.6 | 12.7 | 8.7 | 11.3 | 12.1 | 14.3 | | 12.6 | | 10.5 |
| Md 07-5100 | 12.0 | 12.0 | 9.9 | 11.4 | 11.7 | 13.4 | | 13.8 | | 11.7 |
| Md 0708WN 120 | 13.8 | 13.3 | 11.1 | 12.2 | 13.8 | 16.5 | | 15.6 | | 13.8 |
| Md 0708WN 122 | 14.5 | 12.6 | 11.7 | 12.3 | 14.2 | 16.6 | | 15.8 | | 16.5 |
| Md 0708WN 124 | 14.6 | 15.1 | 11.1 | 13.3 | 15.8 | 15.6 | | 16.5 | | 15.1 |
| K08-5236 | 12.9 | 12.3 | 9.4 | 11.6 | 13.4 | 14.8 | | 14.9 | | 13.3 |
| K08-5241 | 13.8 | 12.5 | 10.5 | 13.3 | 13.0 | 15.7 | | 16.3 | | 13.8 |
| K08-5258 | 14.1 | 14.8 | 11.2 | 13.7 | 14.2 | 15.7 | | 16.8 | | 12.9 |
| K08-5472 | 14.8 | 16.1 | 12.3 | 13.0 | 14.3 | 16.7 | | 17.3 | | 15.1 |
| K08-5718 | 12.8 | 13.2 | 9.5 | 12.3 | 13.4 | 14.7 | | 13.9 | | 13.2 |
| K08-6067 | 14.2 | 15.2 | 11.1 | 13.3 | 14.4 | 15.0 | | 16.1 | | 15.3 |
| K08-6336 | 14.8 | 16.0 | 11.3 | 13.8 | 15.9 | 15.1 | | 17.8 | | 15.0 |
| K08-6591 | 14.2 | 15.6 | 11.7 | 13.5 | 14.8 | 15.2 | | 15.9 | | 13.9 |
| LG08-4955 | 16.1 | 15.2 | 13.0 | 15.7 | 17.6 | 16.8 | | 18.3 | | 15.2 |
| LG08-5093 | 15.0 | 13.8 | 12.2 | 13.9 | 14.9 | 18.5 | | 16.1 | | 14.4 |
| LS07-1343 | 13.7 | 14.1 | 11.0 | 12.4 | 13.8 | 15.3 | | 15.6 | | 13.9 |
| LS07-1942 | 14.2 | 15.9 | 11.3 | 13.8 | 15.0 | 15.9 | | 16.3 | | 13.2 |
| LS07-2016 | 13.8 | 15.2 | 10.7 | 13.8 | 15.5 | 13.3 | | 17.1 | | 12.5 |
| LS07-2773 | 13.6 | 14.9 | 10.7 | 12.6 | 14.3 | 13.8 | | 16.0 | | 14.5 |
| LS07-3107 | 12.8 | 14.0 | 11.2 | 12.7 | 13.6 | 12.8 | | 14.7 | | 12.0 |
| LS07-3125 | 12.3 | 12.0 | 10.5 | 11.8 | 12.3 | 12.8 | | 14.3 | | 12.4 |
| LS07-3126 | 12.6 | 12.9 | 10.8 | 11.9 | 13.1 | 13.5 | | 14.5 | | 11.9 |
| LS07-3141 | 14.5 | 14.6 | 11.8 | 13.5 | 14.8 | 15.1 | | 17.5 | | 14.0 |
| S07-3260 | 13.5 | 13.7 | 10.9 | 11.4 | 13.4 | 16.5 | | 15.0 | | 13.7 |
| S07-5049 | 13.1 | 12.9 | 10.0 | 12.3 | 13.7 | 15.0 | | 15.3 | | 12.4 |
| SS05-5632 | 14.6 | 17.2 | 12.3 | 13.7 | 15.1 | 16.5 | | 15.3 | | 14.5 |
| SS05-5633 | 14.4 | 16.5 | 12.7 | 14.0 | 14.9 | 15.9 | | 15.9 | | 12.9 |
| SS05-5637 | 13.8 | 14.6 | 11.8 | 12.9 | 14.1 | 15.8 | | 14.8 | | 13.5 |
| SS06-5657 | 13.4 | 13.6 | 10.6 | 11.9 | 13.5 | 16.0 | | 14.7 | | 13.4 |
| SS06-6815 | 14.6 | 15.7 | 12.6 | 13.9 | 14.9 | 14.7 | | 17.2 | | 14.4 |
| TN05-4008 | 12.1 | 14.3 | 9.7 | 11.2 | 12.6 | 14.1 | | 12.9 | | 12.3 |

PRELIMINARY TEST IV, 2010

PROTEIN (%)

| Strain | Mean 4 Tests | Urbana IL | Lafayette IN | Ashland KS | Portageville (Clay) MO |
|----------------|--------------------|--------------|-----------------|---------------|------------------------------|
| LD00-3309 (IV) | 33.4 | 32.9 | 33.0 | 34.1 | 33.5 |
| IA4004 | 35.0 | 34.7 | 34.3 | 35.7 | 35.1 |
| LD00-2817P (L) | 31.3 | 30.1 | 31.9 | 33.1 | 30.1 |
| Md 07-5100 | 33.5 | 34.3 | 32.5 | 34.7 | 32.6 |
| Md 0708WN 120 | 34.1 | 33.7 | 34.0 | 34.9 | 33.9 |
| Md 0708WN 122 | 33.8 | 32.6 | 33.8 | 34.0 | 34.7 |
| Md 0708WN 124 | 33.9 | 34.1 | 33.5 | 35.3 | 32.8 |
| K08-5236 | 33.3 | 32.2 | 33.2 | 34.8 | 33.1 |
| K08-5241 | 33.8 | 34.0 | 33.1 | 34.2 | 33.9 |
| K08-5258 | 34.0 | 33.8 | 33.8 | 35.1 | 33.5 |
| K08-5472 | 35.3 | 33.7 | 35.4 | 36.4 | 35.6 |
| K08-5718 | 33.3 | 31.8 | 32.8 | 35.2 | 33.3 |
| K08-6067 | 32.9 | 32.6 | 31.7 | 34.2 | 33.2 |
| K08-6336 | 35.5 | 34.8 | 34.3 | 37.5 | 35.5 |
| K08-6591 | 35.8 | 35.9 | 35.1 | 36.8 | 35.5 |
| LG08-4955 | 35.3 | 34.9 | 34.9 | 36.3 | 35.2 |
| LG08-5093 | 34.1 | 34.0 | 33.2 | 35.5 | 33.8 |
| LS07-1343 | 32.8 | 32.5 | 33.0 | 33.6 | 32.3 |
| LS07-1942 | 33.1 | 32.3 | 32.9 | 34.0 | 33.1 |
| LS07-2016 | 34.1 | 35.0 | 33.7 | 34.4 | 33.5 |
| LS07-2773 | 34.3 | 34.6 | 33.8 | 34.9 | 34.0 |
| LS07-3107 | 33.5 | 33.5 | 32.8 | 35.1 | 32.7 |
| LS07-3125 | 33.3 | 33.1 | 33.3 | 34.3 | 32.6 |
| LS07-3126 | 33.7 | 33.7 | 33.7 | 35.1 | 32.3 |
| LS07-3141 | 35.0 | 35.1 | 34.6 | 36.4 | 33.9 |
| S07-3260 | 34.0 | 33.6 | 34.4 | 34.4 | 33.7 |
| S07-5049 | 34.5 | 34.9 | 34.4 | 35.3 | 33.4 |
| SS05-5632 | 33.9 | 33.3 | 33.8 | 35.3 | 33.0 |
| SS05-5633 | 33.4 | 32.5 | 33.2 | 34.8 | 33.0 |
| SS05-5637 | 34.2 | 33.1 | 33.4 | 35.4 | 34.9 |
| SS06-5657 | 33.6 | 33.4 | 33.4 | 34.5 | 33.0 |
| SS06-6815 | 33.9 | 34.9 | 33.2 | 34.4 | 33.1 |
| TN05-4008 | 33.0 | 32.7 | 31.7 | 34.4 | 33.3 |

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

PRELIMINARY TEST IV, 2010

OIL (%)

| StraIL | Mean 4 Tests | Urbana IL | Lafayette IN | Ashland KS | Portageville (Clay) MO |
|----------------|--------------------|--------------|-----------------|---------------|------------------------------|
| LD00-3309 (IV) | 17.7 | 17.7 | 17.5 | 18.1 | 17.4 |
| IA4004 | 17.7 | 18.0 | 17.7 | 17.9 | 17.3 |
| LD00-2817P (L) | 18.5 | 18.8 | 18.4 | 18.7 | 18.2 |
| Md 07-5100 | 17.4 | 18.2 | 16.8 | 17.5 | 17.1 |
| Md 0708WN 120 | 17.3 | 16.9 | 17.1 | 17.8 | 17.6 |
| Md 0708WN 122 | 17.9 | 17.9 | 17.5 | 18.8 | 17.3 |
| Md 0708WN 124 | 18.4 | 18.3 | 18.6 | 19.0 | 17.8 |
| K08-5236 | 18.1 | 17.7 | 17.5 | 19.0 | 18.1 |
| K08-5241 | 17.9 | 18.1 | 17.3 | 18.6 | 17.5 |
| K08-5258 | 17.5 | 17.7 | 17.3 | 17.8 | 17.4 |
| K08-5472 | 17.6 | 17.1 | 18.4 | 17.6 | 17.2 |
| K08-5718 | 18.4 | 18.6 | 18.1 | 19.3 | 17.6 |
| K08-6067 | 18.5 | 18.7 | 18.2 | 19.3 | 17.9 |
| K08-6336 | 17.1 | 17.0 | 17.6 | 17.1 | 16.8 |
| K08-6591 | 16.4 | 17.3 | 15.8 | 16.6 | 15.8 |
| LG08-4955 | 17.3 | 18.1 | 17.1 | 17.5 | 16.3 |
| LG08-5093 | 17.9 | 18.7 | 17.3 | 18.4 | 17.2 |
| LS07-1343 | 18.6 | 18.2 | 18.5 | 19.0 | 18.5 |
| LS07-1942 | 18.4 | 18.8 | 18.1 | 19.2 | 17.5 |
| LS07-2016 | 17.7 | 18.2 | 17.8 | 18.0 | 17.0 |
| LS07-2773 | 18.0 | 18.0 | 17.6 | 18.4 | 17.8 |
| LS07-3107 | 18.3 | 18.1 | 18.5 | 18.6 | 18.1 |
| LS07-3125 | 18.8 | 18.6 | 18.4 | 19.4 | 18.7 |
| LS07-3126 | 18.2 | 18.0 | 17.8 | 18.8 | 18.2 |
| LS07-3141 | 17.7 | 17.3 | 17.0 | 18.6 | 17.8 |
| S07-3260 | 17.7 | 17.6 | 16.9 | 19.1 | 17.2 |
| S07-5049 | 16.7 | 16.3 | 16.3 | 17.6 | 16.5 |
| SS05-5632 | 18.3 | 18.2 | 18.1 | 18.7 | 18.2 |
| SS05-5633 | 18.7 | 18.7 | 18.2 | 18.7 | 19.0 |
| SS05-5637 | 18.0 | 18.4 | 18.1 | 18.2 | 17.3 |
| SS06-5657 | 17.7 | 17.6 | 17.6 | 18.3 | 17.4 |
| SS06-6815 | 18.7 | 18.8 | 18.7 | 19.0 | 18.4 |
| TN05-4008 | 18.1 | 17.7 | 18.1 | 18.7 | 18.1 |

Uniform Test I Roundup-Ready, 2010

| Ent. | Strain | Parentage | Seed Source | Previous Testing | Gen. Comp. | Unique Traits |
|------|------------------|-----------------------|-------------|------------------|------------|---------------|
| 1. | SD1161RR/(SCN) | IA1008 x SD1081RR | Green | 3 | | |
| 2. | SD1111RR (E) | A97-771039 x SD1081RR | Green | 4 | F4 | RR |
| 3. | U03-820038 (SCN) | na | Graef | 2 | | |
| 4. | AG2002 | na | Monsanto | 3 | | |
| 5. | M00-530039 | MN1803RR x M96-136086 | Orf | 3 | F5 | Rps1 |
| 6. | U06-812247R | na | Graef | 09 SCN IRR | BC1F5 | SCN?, dt |
| 7. | U07-135601R | na | Graef | 1 | F4 | RR, dt |

UNIFORM TEST I Roundup-Ready, 2010

DESCRIPTIVE AND DISEASE DATA

| Strain | Descriptive Code | <u>Fe Chlorosis</u> | <u>Shattering</u> | <u>PR</u> | | <u>FE</u> | <u>SDS</u> |
|------------------|------------------|---------------------|--------------------|------------------|------------------|------------|--------------|
| | | Score Danvers MN | Score Manhattan KS | Lafayette Race 4 | Lafayette Race 7 | Laf. a rx. | DX Havana IL |
| SD1161RR/(SCN) | WGBDYI | 2.0 | 1.0 | H* | H* | S | 0 |
| SD1111RR (E) | PGBDYI | 1.5 | 2.0 | S | S | - | 0 |
| U03-820038 (SCN) | PTTDYBII | 1.3 | 2.0 | S | R* | S | 0.3 |
| AG2002 | PTBDYBII | 1.5 | 2.0 | S | R | S | 0 |
| M00-530039 | PLtTDYBrI | 1.5 | 3.0 | S | S | S | 10 |
| U06-812247R | WGTDYBfD | 2.0 | 1.0 | x | x | S | 1 |
| U07-135601R | PGTDYIbD | 1.3 | 1.0 | R* | R* | S | 1 |
| Venus RR (res) | | | | | | | 1 |
| Myc5171RR (sus) | | | | | | | 16 |

PR: * = *P. sojae* inoc. Reaction NOT compatible with breeder's information about *Rps* Trait

FE: S = susceptible, - = lesions not detected, x = no data

UNIFORM TEST I Roundup-Ready, 2010

REGIONAL SUMMARY

| No. of Tests Strain | Yield 10 bu/a | Rank 10 No. | Maturity 8 Date | Lodging 9 Score | Plant Height 8 In. | Seed Quality 5 Score | Seed Size 10 g/100 | Composition | |
|------------------------|---------------------|-------------------|-----------------------|-----------------------|-----------------------------|-------------------------------|-----------------------------|-------------------|---------------|
| | | | | | | | | Protein 6 % | Oil 6 % |
| SD1161RR/(SCN) | 54.7 | 5 | 9/14 | 1.6 | 33 | 1.5 | 14.8 | 34.7 | 17.7 |
| SD1111RR (E) | 48.4 | 7 | -6.5 | 1.6 | 33 | 1.3 | 14.1 | 34.3 | 18.6 |
| U03-820038 (SCN) | 50.8 | 6 | 1.1 | 1.2 | 29 | 1.0 | 13.9 | 34.5 | 17.9 |
| AG2002 | 58.6 | 3 | -0.1 | 1.3 | 36 | 1.0 | 12.1 | 34.2 | 17.6 |
| M00-530039 | 58.9 | 2 | -4.0 | 1.3 | 32 | 1.5 | 16.2 | 34.5 | 17.8 |
| U06-812247R | 58.6 | 3 | 1.0 | 1.6 | 34 | 1.4 | 13.8 | 35.0 | 17.5 |
| U07-135601R | 66.3 | 1 | 1.6 | 1.3 | 32 | 1.0 | 14.3 | 34.4 | 17.7 |

119.4 Days After Planting

UNIFORM TEST I Roundup-Ready, 2010

2009-2010 2-YEAR MEAN

| No. of Tests Strain | Yield 21 bu/a | Rank 21 No. | Maturity 18 Date | Lodging 19 Score | Plant Height 15 In. | Seed Quality 13 Score | Seed Size 14 g/100 | Composition | |
|------------------------|---------------------|-------------------|------------------------|------------------------|------------------------------|--------------------------------|-----------------------------|--------------------|----------------|
| | | | | | | | | Protein 11 % | Oil 11 % |
| SD1161RR/(SCN) | 54.2 | 4 | 9/18 | 1.3 | 29 | 1.5 | 15.7 | 34.7 | 17.8 |
| SD1111RR (E) | 49.8 | 6 | -6.0 | 1.4 | 31 | 1.4 | 14.7 | 34.1 | 18.7 |
| U03-820038 (SCN) | 53.3 | 5 | 0.4 | 1.2 | 28 | 1.3 | 14.7 | 34.5 | 18.0 |
| AG2002 | 60.4 | 2 | 1.0 | 1.3 | 34 | 1.2 | 13.1 | 34.5 | 17.8 |
| M00-530039 | 56.5 | 3 | -4.3 | 1.2 | 30 | 1.5 | 16.8 | 34.5 | 17.9 |
| U07-135601R | 63.6 | 1 | 1.6 | 1.2 | 30 | 1.3 | 14.7 | 34.4 | 17.8 |

122.8 Days After Planting

2008-2010 3-YEAR MEAN

| No. of Tests Strain | Yield 33 bu/a | Rank 33 No. | Maturity 29 Date | Lodging 30 Score | Plant Height 24 In. | Seed Size 17 g/100 | Seed Quality 30 Score | Composition | |
|------------------------|---------------------|-------------------|------------------------|------------------------|------------------------------|-----------------------------|--------------------------------|--------------------|----------------|
| | | | | | | | | Protein 18 % | Oil 18 % |
| SD1161RR/(SCN) | 53.4 | 3 | 9/17 | 1.5 | 30 | 1.5 | 15.6 | 34.5 | 18.0 |
| SD1111RR (E) | 49.1 | 5 | -5.8 | 1.5 | 31 | 1.5 | 14.7 | 34.1 | 18.8 |
| U03-820038 (SCN) | 53.2 | 4 | 0.4 | 1.2 | 28 | 1.4 | 14.6 | 34.5 | 18.1 |
| AG2002 | 59.3 | 1 | 1.8 | 1.3 | 34 | 1.3 | 13.1 | 34.4 | 18.0 |
| M00-530039 | 56.0 | 2 | -3.9 | 1.3 | 30 | 1.6 | 16.7 | 34.5 | 18.0 |

122.3 Days After Planting

UNIFORM TEST I Roundup-Ready, 2010

YIELD (bu/a)

| Strain | Mean | | | | | | | | | | St. |
|------------------|----------|--------------|------------|------------------|-------------------|--------------|-----------|-----------|---------------|-------------|----------------|
| | 10 Tests | Lafayette IN | Wanatah IN | Ingham County MI | Saginaw County MI | Lamberton MN | Waseca MN | Beemer NE | Cotesfield NE | Phillips NE | Hyacinthe Que. |
| SD1161RR/(SCN) | 54.7 | 56.6 | 32.6 | 48.6 | 23.4 | 58.6 | 54.5 | 54.2 | 65.1 | 81.7 | 71.2 |
| SD1111RR (E) | 48.4 | 35.2 | 22.5 | 46.5 | 18.9 | 51.4 | 62.3 | 37.1 | 60.6 | 76.8 | 72.6 |
| U03-820038 (SCN) | 50.8 | 56.2 | 37.5 | 48.6 | 28.3 | 56.5 | 61.8 | 38.0 | 42.5 | 65.4 | 72.8 |
| AG2002 | 58.6 | 59.0 | 29.1 | 43.7 | 32.3 | 56.4 | 56.3 | 64.6 | 77.7 | 89.1 | 77.7 |
| M00-530039 | 58.9 | 49.7 | 31.0 | 48.5 | 25.5 | 57.1 | 58.6 | 73.7 | 81.1 | 96.4 | 67.6 |
| U06-812247R | 58.6 | 54.9 | 31.2 | 48.4 | 33.5 | 50.1 | 62.0 | 60.9 | 81.7 | 88.6 | 74.8 |
| U07-135601R | 66.3 | 67.1 | 41.6 | 49.9 | 28.8 | 62.6 | 70.6 | 76.3 | 90.1 | 97.7 | 78.2 |
| Location Mean | | 54.1 | 32.2 | 47.7 | 27.2 | 56.1 | 60.9 | 57.8 | 71.3 | 85.1 | 73.6 |
| C.V. (%) | | 8.6 | 13.8 | 4.5 | 14.2 | 9.8 | 6.9 | 14.0 | 6.2 | 3.6 | 7.3 |
| L.S.D. (5%) | | 8.3 | 7.9 | 4.1 | 7.5 | 9.5 | 7.4 | 21.2 | 11.6 | 8.0 | 6.4 |
| Row Sp. (In.) | | 30 | 30 | 15 | 15 | 10 | 10 | 30 | 30 | 30 | 4.9 |
| Rows/Plot | | 4 | 4 | 6 | 6 | 10 | 10 | 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, 2010

YIELD RANK

| Strain | Yield Rank | | | | | | | | | | St. |
|------------------|------------|--------------|------------|------------------|-------------------|--------------|-----------|-----------|---------------|-------------|----------------|
| | | Lafayette IN | Wanatah IN | Ingham County MI | Saginaw County MI | Lamberton MN | Waseca MN | Beemer NE | Cotesfield NE | Phillips NE | Hyacinthe Que. |
| SD1161RR/(SCN) | 5 | 3 | 3 | 2 | 6 | 2 | 7 | 5 | 5 | 5 | 6 |
| SD1111RR (E) | 7 | 7 | 7 | 6 | 7 | 6 | 2 | 7 | 6 | 6 | 5 |
| U03-820038 (SCN) | 6 | 4 | 2 | 3 | 4 | 4 | 4 | 6 | 7 | 7 | 4 |
| AG2002 | 3 | 2 | 6 | 7 | 2 | 5 | 6 | 3 | 4 | 3 | 2 |
| M00-530039 | 2 | 6 | 5 | 4 | 5 | 3 | 5 | 2 | 3 | 2 | 7 |
| U06-812247R | 3 | 5 | 4 | 5 | 1 | 7 | 3 | 4 | 2 | 4 | 3 |
| U07-135601R | 1 | 1 | 1 | 1 | 3 | 1 | 1 | 1 | 1 | 1 | 1 |

UNIFORM TEST I Roundup-Ready, 2010

MATURITY (date)

| Strain | Mean | | | | | | | | | | St. |
|------------------|---------|--------------|------------|------------------|-------------------|--------------|-----------|-----------|---------------|-------------|----------------|
| | 8 Tests | Lafayette IN | Wanatah IN | Ingham County MI | Saginaw County MI | Lamberton MN | Waseca MN | Beemer NE | Cotesfield NE | Phillips NE | Hyacinthe Que. |
| SD1161RR/(SCN) | 9/14 | 9/6 | 9/7 | | | 9/30 | 9/19 | 9/9 | 9/9 | 9/9 | 9/27 |
| SD1111RR (E) | -6.5 | -6 | -5 | | | -8 | -10 | -8 | -5 | -5 | -5 |
| U03-820038 (SCN) | 1.1 | 1 | 4 | | | -2 | 0 | 1 | 3 | 4 | -2 |
| AG2002 | -0.1 | 1 | -3 | | | -2 | 0 | -1 | 1 | 2 | 1 |
| M00-530039 | -4.0 | -5 | 0 | | | -7 | -8 | -2 | -2 | -2 | -6 |
| U06-812247R | 1.0 | -1 | 1 | | | -2 | 0 | 2 | 1 | 5 | 2 |
| U07-135601R | 1.6 | 1 | 3 | | | -1 | 3 | 3 | 1 | 3 | 0 |
| Date Planted | 5/18 | 5/26 | 6/10 | 5/30 | 5/6 | 5/16 | 5/6 | 5/17 | 5/14 | 5/18 | 5/7 |
| Days to Mature | 119 | 103 | 89 | | | 137 | 136 | 115 | 118 | 114 | 143 |

UNIFORM TEST I Roundup-Ready, 2010

LODGING (score)

| Strain | Mean | | | | | | | | | | St. |
|------------------|---------|--------------|------------|------------------|-------------------|--------------|-----------|-----------|---------------|-------------|----------------|
| | 9 Tests | Lafayette IN | Wanatah IN | Ingham County MI | Saginaw County MI | Lamberton MN | Waseca MN | Beemer NE | Cotesfield NE | Phillips NE | Hyacinthe Que. |
| SD1161RR/(SCN) | 1.6 | 1.0 | 1.0 | 2.0 | 1.0 | 2.0 | 2.7 | 1.0 | | 1.0 | 2.3 |
| SD1111RR (E) | 1.6 | 1.0 | 1.0 | 2.5 | 1.0 | 2.0 | 2.0 | 1.5 | | 1.0 | 2.0 |
| U03-820038 (SCN) | 1.2 | 1.0 | 1.0 | 1.0 | 1.0 | 2.0 | 2.0 | 1.0 | | 1.0 | 1.0 |
| AG2002 | 1.3 | 1.0 | 1.0 | 1.5 | 1.0 | 2.0 | 2.0 | 1.0 | | 1.0 | 1.3 |
| M00-530039 | 1.3 | 1.0 | 1.0 | 2.0 | 1.0 | 2.0 | 2.0 | 1.0 | | 1.0 | 1.0 |
| U06-812247R | 1.6 | 1.0 | 1.0 | 2.0 | 1.0 | 2.0 | 2.0 | 1.5 | | 2.0 | 1.7 |
| U07-135601R | 1.3 | 1.0 | 1.0 | 1.5 | 1.0 | 2.0 | 2.0 | 1.0 | | 1.0 | 1.0 |

UNIFORM TEST I Roundup-Ready, 2010

PLANT HEIGHT (inches)

| 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) | 33 | 31 | 30 | 35 | 19 | 33 | 39 | | | 32 | 43 |
| SD1111RR (E) | 33 | 30 | 28 | 36 | 21 | 32 | 38 | | | 38 | 44 |
| U03-820038 (SCN) | 29 | 27 | 26 | 32 | 19 | 28 | 39 | | | 25 | 35 |
| AG2002 | 36 | 36 | 31 | 38 | 27 | 36 | 41 | | | 36 | 42 |
| M00-530039 | 32 | 31 | 28 | 34 | 20 | 31 | 37 | | | 33 | 38 |
| U06-812247R | 34 | 30 | 30 | 38 | 27 | 27 | 41 | | | 37 | 42 |
| U07-135601R | 32 | 30 | 30 | 32 | 21 | 30 | 38 | | | 34 | 38 |

UNIFORM TEST I Roundup-Ready, 2010

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) | 1.5 | 1.5 | 1.0 | | | 1.0 | 1.0 | | | 3.0 | |
| SD1111RR (E) | 1.3 | 1.5 | 1.0 | | | 1.0 | 1.0 | | | 2.0 | |
| U03-820038 (SCN) | 1.0 | 1.0 | 1.0 | | | 1.0 | 1.0 | | | 1.0 | |
| AG2002 | 1.0 | 1.0 | 1.0 | | | 1.0 | 1.0 | | | 1.0 | |
| M00-530039 | 1.5 | 2.0 | 1.5 | | | 1.0 | 1.0 | | | 2.0 | |
| U06-812247R | 1.4 | 1.5 | 1.5 | | | 1.0 | 1.0 | | | 2.0 | |
| U07-135601R | 1.0 | 1.0 | 1.0 | | | 1.0 | 1.0 | | | 1.0 | |

UNIFORM TEST I Roundup-Ready, 2010

SEED SIZE (g/100)

| Strain | Mean 10 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) | 14.8 | 15.0 | 11.1 | 13.1 | 14.0 | 15.5 | 14.0 | 13.8 | | 18.1 | 18.7 |
| SD1111RR (E) | 14.1 | 13.1 | 9.8 | 13.4 | 12.8 | 14.8 | 13.0 | 11.2 | 14.8 | 19.5 | 18.5 |
| U03-820038 (SCN) | 13.9 | 13.2 | 10.6 | 13.1 | 13.9 | 14.1 | 12.6 | 12.7 | 15.2 | 16.0 | 17.6 |
| AG2002 | 12.1 | 11.7 | 9.1 | 12.0 | 13.1 | 11.9 | 11.3 | 10.5 | 11.8 | 13.1 | 16.9 |
| M00-530039 | 16.2 | 15.9 | 11.6 | 15.0 | 14.7 | 16.1 | 14.6 | 16.2 | 17.3 | 20.3 | 20.5 |
| U06-812247R | 13.8 | 13.4 | 10.1 | 13.8 | 14.0 | 14.2 | 11.5 | 11.7 | 14.9 | 16.3 | 17.8 |
| U07-135601R | 14.3 | 14.8 | 10.7 | 13.8 | 13.7 | 14.1 | 12.1 | 13.7 | 14.9 | 17.8 | 17.6 |

UNIFORM TEST I Roundup-Ready, 2010

PROTEIN (%)

| Strain | Mean 6 Tests | Lamberton MN | Waseca MN | Ingham County MI | Phillips NE | Lafayette IN | Wanatah IN |
|------------------|--------------------|-----------------|--------------|------------------------|----------------|-----------------|---------------|
| SD1161RR/(SCN) | 34.7 | 36.6 | 34.4 | 34.0 | 35.0 | 34.3 | 34.2 |
| SD1111RR (E) | 34.3 | 35.5 | 33.1 | 34.6 | 34.1 | 34.3 | 34.2 |
| U03-820038 (SCN) | 34.5 | 35.0 | 33.3 | 35.4 | 35.0 | 34.1 | 34.1 |
| AG2002 | 34.2 | 34.3 | 33.3 | 35.1 | 33.4 | 34.1 | 34.8 |
| M00-530039 | 34.5 | 34.4 | 34.6 | 34.7 | 33.9 | 34.8 | 34.7 |
| U06-812247R | 35.0 | 35.1 | 34.7 | 35.3 | 35.1 | 35.0 | 35.0 |
| U07-135601R | 34.4 | 35.2 | 32.8 | 34.8 | 34.4 | 35.0 | 34.5 |

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

UNIFORM TEST I Roundup-Ready, 2010

OIL (%)

| Strain | Mean 6 Tests | Lamberton MN | Waseca MN | Ingham County MI | Phillips NE | Lafayette IN | Wanatah IN |
|------------------|--------------------|-----------------|--------------|------------------------|----------------|-----------------|---------------|
| SD1161RR/(SCN) | 17.7 | 16.7 | 18.4 | 18.3 | 18.2 | 17.8 | 17.1 |
| SD1111RR (E) | 18.6 | 18.4 | 19.5 | 18.9 | 19.2 | 18.1 | 17.6 |
| U03-820038 (SCN) | 17.9 | 18.0 | 17.8 | 17.7 | 19.6 | 17.7 | 16.8 |
| AG2002 | 17.6 | 17.8 | 17.7 | 17.3 | 18.3 | 17.7 | 16.8 |
| M00-530039 | 17.8 | 17.9 | 18.1 | 18.0 | 18.9 | 17.8 | 16.3 |
| U06-812247R | 17.5 | 17.3 | 18.2 | 17.9 | 17.9 | 17.7 | 16.3 |
| U07-135601R | 17.7 | 17.2 | 18.1 | 17.6 | 18.3 | 18.3 | 16.9 |

Uniform Test II Roundup-Ready, 2010

| Ent. | Strain | Parentage | Seed Source | Previous Testing | Gen. Comp. | Unique Traits |
|------|----------------|--------------------------|-------------|------------------|------------|------------------------|
| 1. | AG2403 (II) | na | Monsanto | 5 | | |
| 2. | AG2002 | na | Monsanto | 3 | | |
| 3. | AG2606 | na | Monsanto | new | | |
| 4. | NEX2905A0R (L) | | Graef | 5 | | Det. |
| 5. | U05-816069R | na | Graef | 09 SCN UIIRR | | RR, SCN, Rps1-c, SDS |
| 6. | U05-836005R | na | Graef | 09 SCN UIIRR | | RR, SCN, SDS, Rps?, dt |
| 7. | U06-813215R | na | Graef | 09 SCN UIIRR | | RR,SCN,SCL,RK,dt |
| 8. | U06-814223R | N.A. | Graef | new | F5 | RR,Dt |
| 9. | U07-135377R | NEX2803Y3R x U03-823141R | Graef | new | F5 | RR,SCN?,Dt |
| 10. | U07-135478R | na | Graef | 1 | F4 | RR, SCN?, dt |
| 11. | U07-135617R | NEX2403K2R x U03-830131R | Graef | new | F5 | RR,SCN?,Dt |
| 12. | U07-135636R | na | Graef | 1 | F4 | RR, SCN?, dt |
| 13. | U07-236940R | NEX2403K2R x U03-130145R | Graef | new | F5 | RR,SCN? |
| 14. | U07-236993R | na | Graef | 1 | F4 | RR, SCN?, dt |
| 15. | U07-338327R | U03-801564R x PI437323 | Graef | new | F5 | RR,SCN?,Dt |

UNIFORM TEST II Roundup-Ready, 2010

DESCRIPTIVE AND DISEASE DATA

| Strain | Descriptive Code | Shattering | Green Stem | PR | | FE | SDS | |
|--------------------|------------------|--------------------------|------------------------|----------------------------|----|------------------|--------------|-------------|
| | | Score Manhattan KS | Score Wanatah IN | Lafayette Race 4 Race 7 | | Laf. a rx. | Havana IL | Paris IL |
| AG2403 (II) | PTTDYBII | 2.0 | 1.0 | R | R | S | 12 | 11 |
| AG2002 | PTBDYBII | 2.0 | 1.0 | S | R | S | 1 | 2 |
| AG2606 | PGBDYIbI | 2.0 | 1.0 | R* | R* | S | 1 | 0 |
| NEX2905A0R (L) | PGBDYIbD | 1.0 | 1.0 | S | S | S | 1 | 0 |
| U05-816069R | PTBDYBII | 1.0 | 1.0 | S | R | - | 10 | 10 |
| U05-836005R | PSBDYbID | 1.0 | 1.0 | S | R | S | 1 | 0 |
| U06-813215R | PGBDYIbD | 2.0 | 1.0 | R* | R* | S | 1 | 0 |
| U06-814223R | WTTDYbID | 2.0 | 1.0 | R* | R* | S | 1 | 0 |
| U07-135377R | PTBIYbID | 2.0 | 1.0 | S | S | S | 4 | 3 |
| U07-135478R | WTBDYbID | 2.0 | 1.0 | R* | R* | S | 1 | 9 |
| U07-135617R | SGTDYIb+BfD | 1.0 | 1.0 | R* | R* | S | 2 | 1 |
| U07-135636R | WTTDTbID | 4.0 | 1.0 | R* | R* | S | 9 | 23 |
| U07-236940R | PTTDYBII | 2.0 | 1.0 | R* | R* | S | 17 | 3 |
| U07-236993R | WGTDYbID | 2.0 | 1.0 | S | R* | S | 12 | 17 |
| U07-338327R | PGTDYIbD | 2.0 | 1.0 | R* | R* | S | 6 | 6 |
| K-233+RR (res) | | | | | | | 1 | 0 |
| LD03-23016R (sus) | | | | | | | 7 | 5 |
| LD06-30504Ra (res) | | | | | | | 0 | 0 |
| LSD | | | | | | | 17 | 12 |
| P<F | | | | | | | 0.601 | 0.0286 |

PR: * = *P. sojae* inoc. Reaction NOT compatible with breeder's information about *Rps* Trait

FE: S = susceptible, - = lesions not detected, x = no data

UNIFORM TEST II Roundup-Ready, 2010

REGIONAL SUMMARY

| No. of Tests Strain | Yield 10 bu/a | Rank 10 No. | Maturity 8 Date | Lodging 9 Score | Plant Height 8 In. | Seed Quality 6 Score | Seed Size 10 g/100 | <u>Composition</u> | |
|------------------------|---------------------|-------------------|-----------------------|-----------------------|-----------------------------|-------------------------------|-----------------------------|--------------------|---------------|
| | | | | | | | | Protein 7 % | Oil 7 % |
| AG2403 (II) | 64.3 | 4 | 9/16 | 1.2 | 33 | 1.3 | 14.5 | 33.5 | 18.3 |
| AG2002 | 60.9 | 12 | -3.3 | 1.2 | 36 | 1.0 | 11.5 | 33.9 | 17.8 |
| AG2606 | 63.0 | 7 | 4.0 | 1.3 | 37 | 1.0 | 12.9 | 35.2 | 16.6 |
| NEX2905A0R (L) | 63.1 | 6 | 8.5 | 1.3 | 38 | 1.0 | 11.3 | 33.5 | 18.0 |
| U05-816069R | 60.7 | 14 | 4.0 | 1.6 | 42 | 1.2 | 11.4 | 34.3 | 17.0 |
| U05-836005R | 61.1 | 10 | 4.8 | 1.4 | 38 | 1.2 | 11.6 | 34.6 | 17.4 |
| U06-813215R | 61.5 | 9 | 1.1 | 1.3 | 33 | 1.5 | 13.2 | 33.1 | 17.8 |
| U06-814223R | 65.8 | 1 | 1.0 | 1.2 | 31 | 1.3 | 12.7 | 33.5 | 18.1 |
| U07-135377R | 60.3 | 15 | 5.4 | 1.4 | 37 | 1.1 | 13.7 | 33.9 | 17.8 |
| U07-135478R | 64.3 | 4 | 7.0 | 1.3 | 36 | 1.0 | 13.4 | 34.1 | 18.0 |
| U07-135617R | 61.0 | 11 | 1.3 | 1.2 | 32 | 1.3 | 13.0 | 33.6 | 18.2 |
| U07-135636R | 65.0 | 3 | 4.4 | 1.5 | 41 | 1.3 | 13.9 | 33.7 | 18.6 |
| U07-236940R | 65.8 | 1 | 2.9 | 1.3 | 34 | 1.2 | 12.6 | 33.2 | 17.8 |
| U07-236993R | 62.8 | 8 | 5.8 | 1.3 | 38 | 1.2 | 12.2 | 33.3 | 17.9 |
| U07-338327R | 60.9 | 12 | 8.0 | 1.2 | 34 | 1.0 | 12.5 | 32.8 | 18.2 |

116.0 Days After Planting

UNIFORM TEST II Roundup-Ready, 2010

2009-2010 2-YEAR MEAN

| No. of Tests Strain | Yield 20 bu/a | Rank 20 No. | Maturity 16 Date | Lodging 18 Score | Plant Height 15 In. | Seed Quality 11 Score | Seed Size 18 g/100 | <u>Composition</u> | |
|------------------------|---------------------|-------------------|------------------------|------------------------|------------------------------|--------------------------------|-----------------------------|--------------------|----------------|
| | | | | | | | | Protein 13 % | Oil 13 % |
| AG2403 (II) | 62.1 | 5 | 9/18 | 1.2 | 31 | 1.4 | 16.0 | 33.8 | 18.0 |
| AG2002 | 60.5 | 6 | -2.3 | 1.2 | 34 | 1.2 | 13.2 | 34.3 | 17.8 |
| NEX2905A0R (L) | 63.9 | 4 | 8.4 | 1.4 | 36 | 1.3 | 12.7 | 33.9 | 17.7 |
| U07-135478R | 65.3 | 2 | 5.6 | 1.2 | 35 | 1.1 | 14.8 | 34.2 | 17.9 |
| U07-135636R | 65.4 | 1 | 4.2 | 1.4 | 39 | 1.5 | 15.6 | 33.6 | 18.3 |
| U07-236993R | 64.2 | 3 | 5.3 | 1.4 | 36 | 1.5 | 13.1 | 33.4 | 18.0 |

119.3 Days After Planting

UNIFORM TEST II Roundup-Ready, 2010

YIELD (bu/a)

| Strain | Mean 10 Tests | Urbana II | Lafayette IN | Wanatah IN | Ingham County MI | Lenawee County MI |
|----------------|---------------------|--------------|-----------------|---------------|------------------------|-------------------------|
| AG2403 (II) | 64.3 | 54.4 | 64.7 | 43.2 | 43.7 | 50.6 |
| AG2002 | 60.9 | 57.2 | 60.7 | 37.5 | 46.2 | 46.6 |
| AG2606 | 63.0 | 61.1 | 69.7 | 42.8 | 34.8 | 49.1 |
| NEX2905A0R (L) | 63.1 | 53.9 | 64.6 | 40.1 | 43.9 | 44.7 |
| U05-816069R | 60.7 | 60.7 | 64.2 | 36.9 | 39.8 | 45.0 |
| U05-836005R | 61.1 | 58.8 | 63.2 | 39.0 | 43.3 | 45.8 |
| U06-813215R | 61.5 | 56.0 | 66.2 | 40.9 | 40.3 | 49.7 |
| U06-814223R | 65.8 | 60.4 | 67.5 | 37.5 | 44.0 | 52.8 |
| U07-135377R | 60.3 | 52.9 | 60.9 | 37.8 | 41.8 | 47.2 |
| U07-135478R | 64.3 | 60.0 | 65.5 | 41.6 | 45.3 | 47.6 |
| U07-135617R | 61.0 | 47.5 | 54.8 | 37.9 | 39.7 | 44.5 |
| U07-135636R | 65.0 | 58.9 | 55.0 | 45.7 | 35.3 | 50.3 |
| U07-236940R | 65.8 | 61.2 | 63.0 | 38.3 | 47.8 | 43.9 |
| U07-236993R | 62.8 | 61.3 | 62.8 | 37.3 | 46.9 | 41.9 |
| U07-338327R | 60.9 | 55.6 | 61.1 | 41.7 | 41.8 | 43.1 |
| Location Mean | | 57.3 | 62.9 | 39.9 | 42.3 | 46.9 |
| C.V. (%) | | 8.8 | 8.2 | 10.0 | 10.9 | 6.3 |
| L.S.D. (5%) | | 10.8 | 8.6 | 6.7 | 8.1 | 5.2 |
| Row Sp. (In.) | | 30 | 30 | 30 | 15 | 15 |
| Rows/Plot | | 4 | 4 | 4 | 6 | 6 |
| Reps | | 2 | 3 | 3 | 2 | 2 |

*Data not included in mean.

UNIFORM TEST II Roundup-Ready, 2010

YIELD (bu/a)

| Strain | Lamberton MN | Waseca MN | Beemer NE | Cotesfield NE | Phillips NE |
|----------------|-----------------|--------------|--------------|------------------|----------------|
| AG2403 (II) | 66.3 | 63.6 | 71.2 | 88.2 | 97.2 |
| AG2002 | 68.0 | 61.0 | 67.6 | 77.8 | 86.6 |
| AG2606 | 61.9 | 53.7 | 65.5 | 91.3 | 100.1 |
| NEX2905A0R (L) | 67.2 | 60.0 | 62.8 | 94.6 | 98.8 |
| U05-816069R | 66.7 | 55.1 | 67.5 | 79.8 | 91.2 |
| U05-836005R | 68.1 | 53.3 | 67.3 | 82.3 | 89.4 |
| U06-813215R | 64.9 | 56.4 | 61.2 | 86.1 | 93.4 |
| U06-814223R | 72.4 | 64.9 | 64.4 | 94.8 | 98.9 |
| U07-135377R | 59.3 | 54.8 | 61.1 | 93.5 | 93.7 |
| U07-135478R | 68.4 | 59.6 | 70.3 | 89.2 | 95.1 |
| U07-135617R | 70.7 | 60.8 | 71.1 | 88.8 | 94.5 |
| U07-135636R | 66.6 | 73.7 | 68.6 | 102.0 | 93.6 |
| U07-236940R | 71.9 | 63.7 | 70.3 | 96.7 | 100.8 |
| U07-236993R | 60.0 | 61.7 | 61.5 | 94.4 | 99.7 |
| U07-338327R | 55.9 | 59.7 | 62.6 | 90.9 | 96.7 |
| Location Mean | 65.9 | 60.1 | 66.2 | 90.0 | 95.3 |
| C.V. (%) | 8.5 | 11.2 | 5.4 | 6.2 | 6.9 |
| L.S.D. (5%) | 9.3 | 11.1 | 8.8 | 13.7 | 16.3 |
| Row Sp. (In.) | 10 | 10 | 30 | 30 | 30 |
| Rows/Plot | 6 | 6 | 4 | 4 | 4 |
| Reps | 3 | 3 | 2 | 2 | 2 |

*Data not included in mean.

UNIFORM TEST II Roundup-Ready, 2010

YIELD RANK

| Strain | Yield Rank | Urbana II | Lafayette IN | Wanatah IN | Ingham County MI | Lenawee County MI |
|----------------|------------|-----------|--------------|------------|------------------|-------------------|
| AG2403 (II) | 4 | 12 | 5 | 2 | 7 | 2 |
| AG2002 | 12 | 9 | 13 | 12 | 3 | 8 |
| AG2606 | 7 | 3 | 1 | 3 | 15 | 5 |
| NEX2905A0R (L) | 6 | 13 | 6 | 7 | 6 | 11 |
| U05-816069R | 14 | 4 | 7 | 15 | 12 | 10 |
| U05-836005R | 10 | 8 | 8 | 8 | 8 | 9 |
| U06-813215R | 9 | 10 | 3 | 6 | 11 | 4 |
| U06-814223R | 1 | 5 | 2 | 12 | 5 | 1 |
| U07-135377R | 15 | 14 | 12 | 11 | 9 | 7 |
| U07-135478R | 4 | 6 | 4 | 5 | 4 | 6 |
| U07-135617R | 11 | 15 | 15 | 10 | 13 | 12 |
| U07-135636R | 3 | 7 | 14 | 1 | 14 | 3 |
| U07-236940R | 1 | 2 | 9 | 9 | 1 | 13 |
| U07-236993R | 8 | 1 | 10 | 14 | 2 | 15 |
| U07-338327R | 12 | 11 | 11 | 4 | 10 | 14 |

UNIFORM TEST II Roundup-Ready, 2010

MATURITY (date)

| Strain | Mean 8 Tests | Urbana II | Lafayette IN | Wanatah IN | Ingham County MI | Lenawee County MI |
|----------------|--------------|-----------|--------------|------------|------------------|-------------------|
| AG2403 (II) | 9/16 | 9/9 | 9/10 | 9/18 | | 9/16 |
| AG2002 | -3.3 | -2 | -3 | -10 | | -1 |
| AG2606 | 4.0 | 4 | 3 | 4 | | 2 |
| NEX2905A0R (L) | 8.5 | 13 | 8 | 10 | | 7 |
| U05-816069R | 4.0 | 7 | 2 | 3 | | 3 |
| U05-836005R | 4.8 | 5 | 6 | 4 | | 3 |
| U06-813215R | 1.1 | 0 | 0 | 1 | | 1 |
| U06-814223R | 1.0 | 2 | 0 | 1 | | 1 |
| U07-135377R | 5.4 | 9 | 4 | 6 | | 5 |
| U07-135478R | 7.0 | 11 | 8 | 7 | | 7 |
| U07-135617R | 1.3 | 0 | -1 | 1 | | 1 |
| U07-135636R | 4.4 | 3 | 0 | 3 | | 4 |
| U07-236940R | 2.9 | 3 | 2 | 3 | | 1 |
| U07-236993R | 5.8 | 4 | 5 | 7 | | 4 |
| U07-338327R | 8.0 | 11 | 8 | 11 | | 6 |
| Date Planted | 5/23 | 5/26 | 5/26 | 6/10 | 5/30 | 6/8 |
| Days to Mature | 116 | 106 | 107 | 100 | | 100 |

UNIFORM TEST II Roundup-Ready, 2010

YIELD RANK

| Strain | Lamberton MN | Waseca MN | Beemer NE | Cotesfield NE | Phillips NE |
|----------------|-----------------|--------------|--------------|------------------|----------------|
| AG2403 (II) | 10 | 4 | 1 | 11 | 6 |
| AG2002 | 6 | 6 | 6 | 15 | 15 |
| AG2606 | 12 | 14 | 9 | 7 | 2 |
| NEX2905A0R (L) | 7 | 8 | 11 | 4 | 5 |
| U05-816069R | 8 | 12 | 7 | 14 | 13 |
| U05-836005R | 5 | 15 | 8 | 13 | 14 |
| U06-813215R | 11 | 11 | 14 | 12 | 12 |
| U06-814223R | 1 | 2 | 10 | 3 | 4 |
| U07-135377R | 14 | 13 | 15 | 6 | 10 |
| U07-135478R | 4 | 10 | 3 | 9 | 8 |
| U07-135617R | 3 | 7 | 2 | 10 | 9 |
| U07-135636R | 9 | 1 | 5 | 1 | 11 |
| U07-236940R | 2 | 3 | 3 | 2 | 1 |
| U07-236993R | 13 | 5 | 13 | 5 | 3 |
| U07-338327R | 15 | 9 | 12 | 8 | 7 |

UNIFORM TEST II Roundup-Ready, 2010

MATURITY (date)

| Strain | Lamberton MN | Waseca MN | Beemer NE | Cotesfield NE | Phillips NE |
|----------------|-----------------|--------------|--------------|------------------|----------------|
| AG2403 (II) | 9/30 | 9/19 | 9/16 | | 9/12 |
| AG2002 | -2 | 2 | -8 | | -2 |
| AG2606 | 5 | 7 | 3 | | 4 |
| NEX2905A0R (L) | 5 | 10 | 6 | | 9 |
| U05-816069R | 3 | 5 | 3 | | 6 |
| U05-836005R | 5 | 6 | 2 | | 7 |
| U06-813215R | 2 | 4 | -1 | | 2 |
| U06-814223R | 0 | 1 | 0 | | 3 |
| U07-135377R | 4 | 6 | 3 | | 6 |
| U07-135478R | 5 | 6 | 5 | | 7 |
| U07-135617R | 2 | 5 | 0 | | 2 |
| U07-135636R | 6 | 6 | 5 | | 8 |
| U07-236940R | 2 | 5 | 3 | | 4 |
| U07-236993R | 6 | 6 | 7 | | 7 |
| U07-338327R | 7 | 9 | 6 | | 6 |
| Date Planted | 5/16 | 5/6 | 5/17 | 5/14 | 5/18 |
| Days to Mature | 137 | 136 | 122 | | 117 |

UNIFORM TEST II Roundup-Ready, 2010**LODGING (score)**

| Strain | Mean 9 Tests | Urbana II | Lafayette IN | Wanatah IN | Ingham County MI | Lenawee County MI |
|----------------|--------------------|--------------|-----------------|---------------|------------------------|-------------------------|
| AG2403 (II) | 1.2 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| AG2002 | 1.2 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| AG2606 | 1.3 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| NEX2905A0R (L) | 1.3 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| U05-816069R | 1.6 | 1.3 | 1.0 | 1.3 | 1.5 | 1.5 |
| U05-836005R | 1.4 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| U06-813215R | 1.3 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| U06-814223R | 1.2 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| U07-135377R | 1.4 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| U07-135478R | 1.3 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| U07-135617R | 1.2 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| U07-135636R | 1.5 | 1.0 | 1.0 | 1.2 | 1.0 | 1.0 |
| U07-236940R | 1.3 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| U07-236993R | 1.3 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| U07-338327R | 1.2 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |

UNIFORM TEST II Roundup-Ready, 2010**PLANT HEIGHT (inches)**

| Strain | Mean 8 Tests | Urbana II | Lafayette IN | Wanatah IN | Ingham County MI | Lenawee County MI |
|----------------|--------------------|--------------|-----------------|---------------|------------------------|-------------------------|
| AG2403 (II) | 33 | 30 | 35 | 29 | 27 | 28 |
| AG2002 | 36 | 34 | 36 | 33 | 35 | 36 |
| AG2606 | 37 | 34 | 39 | 34 | 29 | 39 |
| NEX2905A0R (L) | 38 | 35 | 38 | 35 | 36 | 38 |
| U05-816069R | 42 | 39 | 42 | 37 | 42 | 44 |
| U05-836005R | 38 | 36 | 39 | 33 | 35 | 38 |
| U06-813215R | 33 | 32 | 33 | 31 | 27 | 34 |
| U06-814223R | 31 | 28 | 30 | 29 | 29 | 34 |
| U07-135377R | 37 | 33 | 37 | 33 | 35 | 37 |
| U07-135478R | 36 | 33 | 37 | 33 | 32 | 36 |
| U07-135617R | 32 | 26 | 28 | 31 | 30 | 34 |
| U07-135636R | 41 | 39 | 42 | 38 | 34 | 40 |
| U07-236940R | 34 | 33 | 35 | 31 | 28 | 30 |
| U07-236993R | 38 | 37 | 39 | 34 | 36 | 36 |
| U07-338327R | 34 | 29 | 33 | 32 | 30 | 33 |

UNIFORM TEST II Roundup-Ready, 2010**LODGING (score)**

| Strain | Lamberton MN | Waseca MN | Beemer NE | Cotesfield NE | Phillips NE |
|----------------|-----------------|--------------|--------------|------------------|----------------|
| AG2403 (II) | 2.0 | 2.0 | 1.0 | | 1.0 |
| AG2002 | 2.0 | 2.0 | 1.0 | | 1.0 |
| AG2606 | 2.0 | 2.7 | 1.0 | | 1.0 |
| NEX2905A0R (L) | 2.0 | 2.0 | 1.0 | | 2.0 |
| U05-816069R | 2.3 | 2.3 | 1.5 | | 2.0 |
| U05-836005R | 2.0 | 2.3 | 1.5 | | 2.0 |
| U06-813215R | 2.0 | 2.0 | 1.0 | | 1.5 |
| U06-814223R | 2.0 | 2.0 | 1.0 | | 1.0 |
| U07-135377R | 3.0 | 2.3 | 1.0 | | 1.5 |
| U07-135478R | 2.0 | 2.0 | 1.0 | | 2.0 |
| U07-135617R | 2.0 | 2.0 | 1.0 | | 1.0 |
| U07-135636R | 2.3 | 2.0 | 2.0 | | 2.0 |
| U07-236940R | 2.3 | 2.0 | 1.0 | | 1.0 |
| U07-236993R | 2.0 | 2.0 | 1.0 | | 2.0 |
| U07-338327R | 2.0 | 2.0 | 1.0 | | 1.0 |

UNIFORM TEST II Roundup-Ready, 2010**PLANT HEIGHT (inches)**

| Strain | Lamberton MN | Waseca MN | Beemer NE | Cotesfield NE | Phillips NE |
|----------------|-----------------|--------------|--------------|------------------|----------------|
| AG2403 (II) | 34 | 41 | | | 36 |
| AG2002 | 39 | 39 | | | 38 |
| AG2606 | 41 | 45 | | | 37 |
| NEX2905A0R (L) | 37 | 43 | | | 40 |
| U05-816069R | 44 | 47 | | | 42 |
| U05-836005R | 41 | 44 | | | 40 |
| U06-813215R | 37 | 39 | | | 33 |
| U06-814223R | 32 | 36 | | | 31 |
| U07-135377R | 39 | 41 | | | 38 |
| U07-135478R | 41 | 41 | | | 38 |
| U07-135617R | 34 | 41 | | | 35 |
| U07-135636R | 46 | 45 | | | 43 |
| U07-236940R | 37 | 39 | | | 35 |
| U07-236993R | 40 | 46 | | | 39 |
| U07-338327R | 37 | 40 | | | 34 |

UNIFORM TEST II Roundup-Ready, 2010**SEED QUALITY (score)**

| Strain | Mean 6 Tests | Urbana II | Lafayette IN | Wanatah IN | Ingham County MI | Lenawee County MI |
|----------------|--------------------|--------------|-----------------|---------------|------------------------|-------------------------|
| AG2403 (II) | 1.3 | 1.0 | 1.5 | 1.5 | | |
| AG2002 | 1.0 | 1.0 | 1.0 | 1.0 | | |
| AG2606 | 1.0 | 1.0 | 1.0 | 1.0 | | |
| NEX2905A0R (L) | 1.0 | 1.0 | 1.0 | 1.0 | | |
| U05-816069R | 1.2 | 2.0 | 1.0 | 1.0 | | |
| U05-836005R | 1.2 | 1.0 | 1.0 | 1.0 | | |
| U06-813215R | 1.5 | 1.0 | 2.0 | 2.0 | | |
| U06-814223R | 1.3 | 1.0 | 1.5 | 1.0 | | |
| U07-135377R | 1.1 | 1.0 | 1.5 | 1.0 | | |
| U07-135478R | 1.0 | 1.0 | 1.0 | 1.0 | | |
| U07-135617R | 1.3 | 2.0 | 1.0 | 1.0 | | |
| U07-135636R | 1.3 | 2.0 | 1.5 | 1.0 | | |
| U07-236940R | 1.2 | 1.0 | 1.0 | 1.0 | | |
| U07-236993R | 1.2 | 1.0 | 1.0 | 1.0 | | |
| U07-338327R | 1.0 | 1.0 | 1.0 | 1.0 | | |

UNIFORM TEST II Roundup-Ready, 2010**SEED SIZE (g/100)**

| Strain | Mean 10 Tests | Urbana II | Lafayette IN | Wanatah IN | Ingham County MI | Lenawee County MI |
|----------------|---------------------|--------------|-----------------|---------------|------------------------|-------------------------|
| AG2403 (II) | 14.5 | 12.3 | 14.5 | 13.5 | 15.4 | 15.1 |
| AG2002 | 11.5 | 10.7 | 12.6 | 9.3 | 12.2 | 11.7 |
| AG2606 | 12.9 | 11.8 | 12.9 | 11.1 | 15.1 | 12.6 |
| NEX2905A0R (L) | 11.3 | 10.3 | 10.9 | 9.6 | 13.0 | 10.6 |
| U05-816069R | 11.4 | 10.7 | 11.5 | 9.8 | 12.6 | 11.4 |
| U05-836005R | 11.6 | 11.4 | 12.3 | 9.8 | 12.3 | 11.2 |
| U06-813215R | 13.2 | 11.5 | 14.2 | 10.6 | 13.3 | 13.4 |
| U06-814223R | 12.7 | 12.7 | 14.0 | 9.5 | 12.4 | 12.0 |
| U07-135377R | 13.7 | 12.9 | 13.2 | 11.1 | 14.4 | 13.2 |
| U07-135478R | 13.4 | 13.0 | 14.4 | 11.3 | 14.3 | 12.6 |
| U07-135617R | 13.0 | 11.4 | 13.5 | 10.8 | 12.6 | 12.5 |
| U07-135636R | 13.9 | 12.8 | 13.6 | 11.5 | 14.0 | 13.2 |
| U07-236940R | 12.6 | 11.1 | 12.4 | 10.2 | 13.4 | 12.4 |
| U07-236993R | 12.2 | 11.2 | 12.0 | 10.2 | 13.0 | 11.7 |
| U07-338327R | 12.5 | 11.9 | 12.2 | 11.1 | 13.5 | 12.0 |

UNIFORM TEST II Roundup-Ready, 2010**SEED QUALITY (score)**

| Strain | Lamberton MN | Waseca MN | Beemer NE | Cotesfield NE | Phillips NE |
|----------------|-----------------|--------------|--------------|------------------|----------------|
| AG2403 (II) | 1.0 | 1.0 | | | 2.0 |
| AG2002 | 1.0 | 1.0 | | | 1.0 |
| AG2606 | 1.0 | 1.0 | | | 1.0 |
| NEX2905A0R (L) | 1.0 | 1.0 | | | 1.0 |
| U05-816069R | 1.0 | 1.0 | | | 1.0 |
| U05-836005R | 1.0 | 1.0 | | | 2.0 |
| U06-813215R | 1.0 | 1.0 | | | 2.0 |
| U06-814223R | 1.0 | 1.0 | | | 2.0 |
| U07-135377R | 1.0 | 1.0 | | | 1.0 |
| U07-135478R | 1.0 | 1.0 | | | 1.0 |
| U07-135617R | 1.0 | 1.0 | | | 2.0 |
| U07-135636R | 1.0 | 1.0 | | | 1.0 |
| U07-236940R | 1.0 | 1.0 | | | 2.0 |
| U07-236993R | 1.0 | 1.0 | | | 2.0 |
| U07-338327R | 1.0 | 1.0 | | | 1.0 |

UNIFORM TEST II Roundup-Ready, 2010**SEED SIZE (g/100)**

| Strain | Lamberton MN | Waseca MN | Beemer NE | Cotesfield NE | Phillips NE |
|----------------|-----------------|--------------|--------------|------------------|----------------|
| AG2403 (II) | 14.4 | 13.6 | 13.9 | 15.5 | 17.1 |
| AG2002 | 12.4 | 11.0 | 10.4 | 12.4 | 12.5 |
| AG2606 | 13.1 | 12.1 | 12.3 | 14.2 | 13.5 |
| NEX2905A0R (L) | 11.7 | 11.3 | 9.9 | 12.6 | 12.9 |
| U05-816069R | 12.0 | 11.0 | 10.9 | 12.0 | 12.3 |
| U05-836005R | 12.8 | 11.2 | 11 | 11.8 | 12.0 |
| U06-813215R | 13.7 | 11.2 | 11.3 | 17.4 | 15.0 |
| U06-814223R | 13.4 | 11.5 | 11.2 | 15.1 | 15.1 |
| U07-135377R | 14.1 | 13.5 | 13.2 | 15.5 | 15.5 |
| U07-135478R | 13.1 | 12.2 | 12.7 | 15.6 | 15.0 |
| U07-135617R | 13.8 | 13.0 | 11.7 | 14.6 | 16.0 |
| U07-135636R | 15.6 | 13.4 | 12.9 | 15.7 | 16.2 |
| U07-236940R | 13.7 | 11.8 | 12.5 | 14.2 | 14.6 |
| U07-236993R | 13.3 | 11.0 | 11.7 | 13.2 | 14.7 |
| U07-338327R | 13.1 | 11.3 | 11.8 | 12.9 | 14.8 |

UNIFORM TEST II Roundup-Ready, 2010

PROTEIN (%)

| Strain | Mean 7 Tests | Urbana IL | Lamberton MN | Waseca MN | Lafayette IN | Wanatah IN | Ingham County MI | Phillips NE |
|----------------|--------------------|--------------|-----------------|--------------|-----------------|---------------|------------------------|----------------|
| AG2403 (II) | 33.5 | 31.7 | 35.6 | 32.9 | 33.7 | 33.6 | 32.7 | 34.1 |
| AG2002 | 33.9 | 33.5 | 34.5 | 33.1 | 33.7 | 35.2 | 33.8 | 33.5 |
| AG2606 | 35.2 | 34.1 | 35.3 | 34.7 | 36.0 | 35.3 | 35.6 | 35.5 |
| NEX2905A0R (L) | 33.5 | 32.1 | 35.0 | 32.6 | 34.3 | 33.9 | 33.1 | 33.9 |
| U05-816069R | 34.3 | 32.9 | 36.0 | 33.4 | 35.5 | 33.9 | 33.9 | 34.4 |
| U05-836005R | 34.6 | 34.1 | 34.4 | 33.7 | 35.7 | 34.6 | 34.6 | 35.3 |
| U06-813215R | 33.1 | 31.8 | 33.8 | 32.2 | 33.7 | 33.3 | 33.8 | 33.1 |
| U06-814223R | 33.5 | 33.1 | 33.2 | 32.5 | 34.2 | 33.4 | 33.7 | 34.7 |
| U07-135377R | 33.9 | 32.3 | 34.0 | 34.5 | 34.8 | 33.7 | 33.1 | 34.9 |
| U07-135478R | 34.1 | 34.3 | 34.4 | 33.2 | 35.0 | 33.5 | 33.3 | 34.6 |
| U07-135617R | 33.6 | 31.8 | 34.7 | 34.0 | 33.1 | 34.2 | 31.9 | 35.6 |
| U07-135636R | 33.7 | 32.2 | 34.1 | 33.2 | 34.1 | 34.6 | 33.6 | 33.8 |
| U07-236940R | 33.2 | 31.4 | 34.0 | 33.6 | 33.7 | 32.8 | 32.2 | 34.5 |
| U07-236993R | 33.3 | 32.3 | 34.6 | 32.8 | 34.2 | 32.7 | 32.6 | 33.8 |
| U07-338327R | 32.8 | 31.6 | 33.8 | 31.8 | 33.9 | 33.8 | 32.2 | 32.8 |

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

UNIFORM TEST II Roundup-Ready, 2010

OIL (%)

| Strain | Mean 7 Tests | Urbana IL | Lamberton MN | Waseca MN | Lafayette IN | Wanatah IN | Ingham County MI | Phillips NE |
|----------------|--------------------|--------------|-----------------|--------------|-----------------|---------------|------------------------|----------------|
| AG2403 (II) | 18.3 | 18.9 | 18.5 | 18.5 | 18.2 | 17.4 | 18.4 | 18.4 |
| AG2002 | 17.8 | 18.6 | 17.4 | 17.7 | 18.0 | 16.9 | 18.1 | 18.1 |
| AG2606 | 16.6 | 17.1 | 16.9 | 16.4 | 16.3 | 16.0 | 16.8 | 16.9 |
| NEX2905A0R (L) | 18.0 | 18.7 | 18.2 | 18.0 | 17.3 | 17.3 | 18.1 | 18.7 |
| U05-816069R | 17.0 | 17.7 | 17.3 | 16.6 | 16.5 | 16.8 | 17.2 | 17.1 |
| U05-836005R | 17.4 | 17.5 | 17.5 | 17.6 | 17.5 | 16.9 | 17.1 | 17.5 |
| U06-813215R | 17.8 | 18.5 | 17.8 | 17.8 | 17.9 | 16.9 | 17.2 | 18.5 |
| U06-814223R | 18.1 | 19.1 | 18.6 | 18.2 | 18.1 | 17.0 | 17.5 | 18.3 |
| U07-135377R | 17.8 | 18.3 | 17.6 | 17.8 | 17.0 | 17.2 | 18.6 | 18.1 |
| U07-135478R | 18.0 | 18.6 | 18.0 | 18.0 | 17.7 | 17.6 | 18.7 | 17.6 |
| U07-135617R | 18.2 | 19.1 | 18.0 | 17.4 | 18.6 | 16.7 | 18.7 | 19.1 |
| U07-135636R | 18.6 | 19.2 | 18.4 | 18.4 | 18.0 | 18.8 | 19.0 | 18.6 |
| U07-236940R | 17.8 | 18.8 | 17.6 | 17.3 | 17.4 | 16.8 | 18.2 | 18.2 |
| U07-236993R | 17.9 | 18.3 | 18.2 | 17.7 | 17.5 | 17.2 | 18.4 | 18.2 |
| U07-338327R | 18.2 | 18.8 | 17.9 | 18.1 | 17.4 | 17.9 | 18.8 | 18.8 |

Uniform Test III Roundup-Ready, 2010

| Ent. | Strain | Parentage | Seed Source | Previous Testing | Gen. Comp. | Unique Traits |
|------|------------------|--------------------------|-------------|------------------|------------|---------------|
| 1. | U03-827101 (SCN) | na | Monsanto | 2 | | RR, SCN |
| 2. | NEX2905A0R (E) | na | Graef | 3 | | Det. |
| 3. | AG3504 | na | Monsanto | 2 | | |
| 4. | AG3803 | na | Monsanto | 1 | | RR, SCN |
| 5. | K08-2043 RR | IA3024 x K03-2811RR | Schapaugh | new | F4 | LOW LINOLENIC |
| 6. | K08-2449 RR | CRS3C8 x KS3406RR | Schapaugh | new | F4 | LOW PHYTATE |
| 7. | K08-2452 RR | CRS3C8 x KS3406RR | Schapaugh | new | F4 | LOW PHYTATE |
| 8. | K08-2509 RR | CRS3C8 x KS3406RR | Schapaugh | new | F4 | LOW PHYTATE |
| 9. | K08-2528 RR | CRS3C8 x KS3406RR | Schapaugh | new | F4 | |
| 10. | K08-2529 RR | CRS3C8 x KS3406RR | Schapaugh | new | F4 | |
| 11. | K08-2545 RR | CRS3C8 x KS3406RR | Schapaugh | new | F4 | |
| 12. | U05-826080R | na | Graef | 09 SCN UIIIRR | | RR, Rps? |
| 13. | U05-840045R | na | Graef | 09 SCN UIIIRR | | RR, Rps? |
| 14. | U07-236420R | U01-390489 x U03-825124R | Graef | new | F5 | RR,SCN? |
| 15. | U07-236566R | na | Graef | 1 | F4 | RR, SCN? |
| 16. | U07-237320R | NEX2403K1R x U04-615036 | Graef | new | F4 | RR,Dt |
| 17. | U07-237991R | NEX3301H1R x U03-830131R | Graef | new | F5 | RR,SCN? |
| 18. | U07-438943R | na | Graef | new | | RR, SCN |
| 19. | U07-439076R | NEX2803Y3R x U03-801564R | Graef | new | F5 | RR,SCN? |
| 20. | U07-439221R | na | Graef | 1 | F4 | RR, SCN? |
| 21. | U08-914024R | na | Graef | 09 SCN UIIIRR | F4 | RR |
| 22. | U08-926022R | na | Graef | new | F5 | RR,SCN? |

UNIFORM TEST III Roundup-Ready, 2010

DESCRIPTIVE AND DISEASE DATA

| Strain | Descriptive Code | <u>Green Stem</u> | <u>Shattering</u> | <u>PR</u> | | <u>FE</u> | <u>SDS</u> |
|------------------|------------------|------------------------|--------------------------|---------------------------------|----|------------------|-----------------------------|
| | | Score Wanatah IN | Score Manhattan KS | Lafayette Race 4 Race 7 | | Laf. a rx. | DX Valmeyer <u>IL</u> |
| U03-827101 (SCN) | WTBDYBII | 1.0 | 2.0 | S | R* | S | 13 |
| NEX2905A0R (E) | PGBDYIbD | 1.0 | 1.0 | S | S | S | 31 |
| AG3504 | PGBDYIbI | 1.0 | 2.0 | S | R | S | 6 |
| AG3803 | WGTDYBI+BfI | 1.0 | 2.0 | S | R | S | 7 |
| K08-2043 RR | WSTDYBI+BfI | 1.0 | 2.0 | R* | R* | S | 36 |
| K08-2449 RR | WLtTDYHI | 1.0 | 2.0 | H* | S | S | 36 |
| K08-2452 RR | WLtTDYBI+BrII | 1.0 | 1.0 | S | S | S | 42 |
| K08-2509 RR | WTTDYBII | 1.0 | 1.0 | S | S | S | 14 |
| K08-2528 RR | SLtBDYBrI | 1.0 | 2.0 | H* | S | S | 28 |
| K08-2529 RR | STBDYBI+BrI | 1.0 | 2.0 | S | S | S | 25 |
| K08-2545 RR | PLtSDYBI+BrI | 1.0 | 2.0 | S | S | S | 47 |
| U05-826080R | PGTDYIbI | 1.0 | 1.0 | R | R | S | 19 |
| U05-840045R | PGTDYIbI | 1.0 | 3.0 | S | R | S | 3 |
| U07-236420R | WGTDYYI | 1.0 | 3.0 | R* | R* | S | 64 |
| U07-236566R | PGTDYIbI | 1.0 | 2.0 | R* | R* | S | 33 |
| U07-237320R | PTTDYBrD | 1.0 | 3.0 | R* | R* | S | 33 |
| U07-237991R | STBDYBII | 1.0 | 3.0 | H* | R* | S | 64 |
| U07-438943R | SGGDYBf+IbI | 1.0 | 3.0 | S | R* | S | 44 |
| U07-439076R | PGTIYIbI | 1.0 | 2.0 | S | R* | S | 50 |
| U07-439221R | PGTDYIbI | 1.0 | 3.0 | S | R* | S | 61 |
| U08-914024R | PTTDYBLI | 1.0 | 3.0 | S | R* | S | 6 |
| U08-926022R | PTTDYLbII | 1.0 | 1.0 | S | R* | S | 33 |
| 2900CR(sus) | | | | | | | 33 |
| MAC02-256 (sus) | | | | | | | 42 |
| MAC02-323 (sus) | | | | | | | 22 |
| LSD | | | | | | | 22 |
| P<F | | | | | | | <.0001 |

PR: * = *P. sojae* inoc. Reaction NOT compatible with breeder's information about *Rps* Trait

FE: S = susceptible, - = lesions not detected, x = no data

UNIFORM TEST III Roundup-Ready, 2010

REGIONAL SUMMARY

| No. of Tests Strain | Yield 10 bu/a | Rank 10 No. | Maturity 8 Date | Lodging 8 Score | Plant Height 8 In. | Seed Quality 8 Score | Seed Size 10 g/100 | Composition | |
|------------------------|---------------------|-------------------|-----------------------|-----------------------|-----------------------------|-------------------------------|-----------------------------|-------------------|---------------|
| | | | | | | | | Protein 6 % | Oil 6 % |
| U03-827101 (SCN) | 57.4 | 11 | 9/26 | 1.2 | 34 | 1.8 | 13.7 | 34.6 | 17.3 |
| NEX2905A0R (E) | 55.3 | 16 | -6.3 | 1.1 | 31 | 1.9 | 11.4 | 33.6 | 18.3 |
| AG3504 | 61.5 | 2 | -2.9 | 1.5 | 38 | 1.9 | 12.9 | 34.5 | 17.6 |
| AG3803 | 62.9 | 1 | 2.2 | 1.6 | 38 | 1.7 | 14.2 | 34.4 | 18.0 |
| K08-2043 RR | 58.6 | 7 | 0.6 | 1.9 | 39 | 2.0 | 12.5 | 32.2 | 18.8 |
| K08-2449 RR | 58.0 | 10 | 2.5 | 1.5 | 39 | 1.8 | 14.1 | 33.1 | 18.8 |
| K08-2452 RR | 58.5 | 9 | 2.3 | 1.3 | 36 | 1.8 | 13.1 | 33.7 | 18.3 |
| K08-2509 RR | 61.2 | 3 | 3.0 | 1.6 | 39 | 1.8 | 14.1 | 33.8 | 18.0 |
| K08-2528 RR | 59.4 | 5 | 2.5 | 1.5 | 39 | 1.9 | 14.1 | 33.3 | 18.3 |
| K08-2529 RR | 55.9 | 14 | 3.6 | 1.3 | 37 | 1.9 | 14.0 | 33.6 | 18.2 |
| K08-2545 RR | 59.2 | 6 | -0.6 | 1.3 | 37 | 1.8 | 13.1 | 33.7 | 18.6 |
| U05-826080R | 58.6 | 7 | -1.6 | 1.2 | 36 | 1.6 | 14.1 | 34.8 | 18.1 |
| U05-840045R | 43.1 | 21 | -2.0 | 1.2 | 32 | 1.9 | 13.8 | 33.6 | 19.0 |
| U07-236420R | 52.3 | 18 | -3.7 | 1.2 | 41 | 2.0 | 13.1 | 32.8 | 18.7 |
| U07-236566R | 45.5 | 20 | -2.3 | 1.1 | 31 | 1.9 | 13.5 | 32.5 | 18.8 |
| U07-237320R | 41.3 | 22 | -5.4 | 1.0 | 34 | 2.4 | 13.5 | 35.7 | 17.3 |
| U07-237991R | 54.2 | 17 | -2.8 | 1.4 | 40 | 2.1 | 14.3 | 34.1 | 17.8 |
| U07-438943R | 56.7 | 13 | 0.4 | 1.3 | 39 | 2.0 | 14.2 | 31.9 | 18.8 |
| U07-439076R | 55.5 | 15 | -3.6 | 1.3 | 39 | 2.0 | 14.9 | 33.8 | 18.1 |
| U07-439221R | 57.4 | 11 | -0.3 | 1.3 | 34 | 1.9 | 13.2 | 32.5 | 18.4 |
| U08-914024R | 47.8 | 19 | 0.3 | 1.4 | 32 | 1.8 | 14.4 | 32.9 | 18.3 |
| U08-926022R | 60.8 | 4 | 0.8 | 1.6 | 37 | 1.9 | 14.4 | 34.1 | 18.6 |

123.8 Days After Planting

UNIFORM TEST III Roundup-Ready, 2010

2008-2010 2-YEAR MEAN

| No. of Tests Strain | Yield 20 bu/a | Rank 20 No. | Maturity 18 Date | Lodging 16 Score | Plant Height 16 In. | Seed Quality 16 Score | Seed Size 18 g/100 | Composition | |
|------------------------|---------------------|-------------------|------------------------|------------------------|------------------------------|--------------------------------|-----------------------------|--------------------|----------------|
| | | | | | | | | Protein 10 % | Oil 10 % |
| U03-827101 (SCN) | 58.2 | 4 | 9/25 | 1.3 | 34 | 2.0 | 14.7 | 34.2 | 17.7 |
| NEX2905A0R (E) | 57.3 | 5 | -6.1 | 1.3 | 31 | 2.1 | 12.7 | 33.5 | 18.5 |
| AG3504 | 61.9 | 2 | -2.3 | 1.5 | 36 | 2.0 | 14.2 | 34.3 | 17.5 |
| AG3803 | 63.6 | 1 | 2.6 | 1.6 | 35 | 1.9 | 15.0 | 34.1 | 17.9 |
| U07-236566R | 53.0 | 6 | -3.7 | 1.2 | 30 | 1.9 | 14.4 | 32.6 | 18.6 |
| U07-439221R | 59.4 | 3 | -1.2 | 1.4 | 33 | 2.1 | 14.2 | 32.6 | 18.6 |

127.9 Days After Planting

UNIFORM TEST III Roundup-Ready, 2010

YIELD (bu/a)

| Strain | Mean 10 Tests | Urbana IL | Lafayette IN | Wanatah IN | Manhattan KS | Ottawa KS |
|------------------|---------------------|--------------|-----------------|---------------|-----------------|--------------|
| U03-827101 (SCN) | 57.4 | 64.3 | 67.0 | 43.8 | 49.5 | 33.3 |
| NEX2905A0R (E) | 55.3 | 67.4 | 57.6 | 41.5 | 53.9 | 19.6 |
| AG3504 | 61.5 | 70.0 | 67.4 | 43.6 | 54.7 | 34.5 |
| AG3803 | 62.9 | 73.6 | 68.3 | 51.3 | 54.3 | 36.6 |
| K08-2043 RR | 58.6 | 58.2 | 71.6 | 40.1 | 53.8 | 30.2 |
| K08-2449 RR | 58.0 | 66.6 | 65.6 | 36.1 | 51.9 | 32.9 |
| K08-2452 RR | 58.5 | 63.3 | 62.9 | 42.9 | 56.8 | 36.5 |
| K08-2509 RR | 61.2 | 63.4 | 63.2 | 40.3 | 55.4 | 34.6 |
| K08-2528 RR | 59.4 | 65.1 | 69.3 | 41.1 | 57.2 | 32.5 |
| K08-2529 RR | 55.9 | 64.8 | 59.1 | 37.0 | 52.9 | 29.1 |
| K08-2545 RR | 59.2 | 67.0 | 57.9 | 37.5 | 56.6 | 34.2 |
| U05-826080R | 58.6 | 64.5 | 62.5 | 41.3 | 56.8 | 27.1 |
| U05-840045R | 43.1 | 60.3 | 59.9 | 39.8 | 30.7 | 21.2 |
| U07-236420R | 52.3 | 61.3 | 58.4 | 37.1 | 48.4 | 22.0 |
| U07-236566R | 45.5 | 54.4 | 63.8 | 44.9 | 34.0 | 15.7 |
| U07-237320R | 41.3 | 49.4 | 44.5 | 34.8 | 35.2 | 13.8 |
| U07-237991R | 54.2 | 59.4 | 57.1 | 42.3 | 48.1 | 22.8 |
| U07-438943R | 56.7 | 59.5 | 60.8 | 38.6 | 52.5 | 29.3 |
| U07-439076R | 55.5 | 60.4 | 61.9 | 40.7 | 48.1 | 32.5 |
| U07-439221R | 57.4 | 63.1 | 62.9 | 41.9 | 53.9 | 26.9 |
| U08-914024R | 47.8 | 63.7 | 60.1 | 43.9 | 39.3 | 23.7 |
| U08-926022R | 60.8 | 68.2 | 64.1 | 46.3 | 57.9 | 38.1 |
| Location Mean | | 63.1 | 62.1 | 41.2 | 50.1 | 28.5 |
| C.V. (%) | | 3.4 | 7.3 | 8.1 | 8.0 | 8.6 |
| L.S.D. (5%) | | 4.5 | 7.4 | 5.5 | 5.5 | 3.4 |
| Row Sp. (in.) | | 30 | 30 | 30 | 30 | 30 |
| Rows/Plot | | 4 | 4 | 4 | 4 | 4 |
| Reps | | 2 | 3 | 3 | 3 | 3 |

*Data not included in mean.

UNIFORM TEST III Roundup-Ready, 2010

YIELD (bu/a)

| Strain | Portageville (Clay) MO | Portageville (Loam) MO | DeWitt NE | Lincoln NE | North Bend NE |
|------------------|------------------------------|------------------------------|--------------|---------------|---------------------|
| U03-827101 (SCN) | 56.1 | 61.6 | 56.1 | 77.5 | 64.5 |
| NEX2905A0R (E) | 42.2 | 49.0 | 74.4 | 78.0 | 69.3 |
| AG3504 | 58.2 | 62.8 | 76.1 | 75.8 | 72.4 |
| AG3803 | 66.3 | 62.4 | 70.9 | 78.8 | 66.8 |
| K08-2043 RR | 58.9 | 63.2 | 69.8 | 73.5 | 67.0 |
| K08-2449 RR | 66.2 | 62.1 | 52.7 | 80.4 | 65.5 |
| K08-2452 RR | 61.8 | 58.5 | 64.5 | 76.8 | 61.3 |
| K08-2509 RR | 64.0 | 70.1 | 70.4 | 87.3 | 62.9 |
| K08-2528 RR | 64.4 | 66.0 | 50.4 | 79.8 | 68.3 |
| K08-2529 RR | 57.5 | 57.5 | 56.3 | 83.7 | 61.6 |
| K08-2545 RR | 57.1 | 61.8 | 71.5 | 88.3 | 59.9 |
| U05-826080R | 58.1 | 62.0 | 73.5 | 75.7 | 64.6 |
| U05-840045R | 32.9 | 40.1 | 46.3 | 41.3 | 58.2 |
| U07-236420R | 48.9 | 47.1 | 67.0 | 72.3 | 60.7 |
| U07-236566R | 43.2 | 37.4 | 39.1 | 55.6 | 67.1 |
| U07-237320R | 33.7 | 33.9 | 53.2 | 60.6 | 53.9 |
| U07-237991R | 51.9 | 50.0 | 75.8 | 71.8 | 63.1 |
| U07-438943R | 55.3 | 51.2 | 73.0 | 84.2 | 62.8 |
| U07-439076R | 54.2 | 55.1 | 65.6 | 73.0 | 63.4 |
| U07-439221R | 57.8 | 57.9 | 70.5 | 74.4 | 64.5 |
| U08-914024R | 38.9 | 57.9 | 37.4 | 57.7 | 55.4 |
| U08-926022R | 63.4 | 57.0 | 74.5 | 78.9 | 59.6 |
| Location Mean | 54.1 | 55.7 | 63.1 | 73.9 | 63.3 |
| C.V. (%) | 10.7 | 6.9 | 14.8 | 5.3 | 8.1 |
| L.S.D. (5%) | 9.5 | 6.4 | 23.0 | 9.6 | 12.6 |
| Row Sp. (in.) | 30 | 30 | 30 | 30 | 30 |
| Rows/Plot | 4 | 4 | 4 | 4 | 4 |
| Reps | 3 | 3 | 2 | 2 | 2 |

UNIFORM TEST III Roundup-Ready, 2010

YIELD RANK

| Strain | Yield Rank | Urbana IL | Lafayette IN | Wanatah IN | Manhattan KS | Ottawa KS |
|------------------|------------|-----------|--------------|------------|--------------|-----------|
| U03-827101 (SCN) | 11 | 10 | 5 | 5 | 15 | 7 |
| NEX2905A0R (E) | 16 | 4 | 20 | 10 | 9 | 20 |
| AG3504 | 2 | 2 | 4 | 6 | 7 | 5 |
| AG3803 | 1 | 1 | 3 | 1 | 8 | 2 |
| K08-2043 RR | 7 | 20 | 1 | 15 | 11 | 11 |
| K08-2449 RR | 10 | 6 | 6 | 21 | 14 | 8 |
| K08-2452 RR | 9 | 13 | 10 | 7 | 3 | 3 |
| K08-2509 RR | 3 | 12 | 9 | 14 | 6 | 4 |
| K08-2528 RR | 5 | 7 | 2 | 12 | 2 | 9 |
| K08-2529 RR | 14 | 8 | 17 | 20 | 12 | 13 |
| K08-2545 RR | 6 | 5 | 19 | 18 | 5 | 6 |
| U05-826080R | 7 | 9 | 12 | 11 | 3 | 14 |
| U05-840045R | 21 | 17 | 16 | 16 | 22 | 19 |
| U07-236420R | 18 | 15 | 18 | 19 | 16 | 18 |
| U07-236566R | 20 | 21 | 8 | 3 | 21 | 21 |
| U07-237320R | 22 | 22 | 22 | 22 | 20 | 22 |
| U07-237991R | 17 | 19 | 21 | 8 | 17 | 17 |
| U07-438943R | 13 | 18 | 14 | 17 | 13 | 12 |
| U07-439076R | 15 | 16 | 13 | 13 | 17 | 9 |
| U07-439221R | 11 | 14 | 10 | 9 | 9 | 15 |
| U08-914024R | 19 | 11 | 15 | 4 | 19 | 16 |
| U08-926022R | 4 | 3 | 7 | 2 | 1 | 1 |

UNIFORM TEST III Roundup-Ready, 2010

YIELD RANK

| Strain | Portageville (Clay) MO | Portageville (Loam) MO | DeWitt NE | Lincoln NE | North Bend NE |
|------------------|------------------------------|------------------------------|--------------|---------------|---------------------|
| U03-827101 (SCN) | 13 | 9 | 16 | 10 | 9 |
| NEX2905A0R (E) | 19 | 18 | 4 | 9 | 2 |
| AG3504 | 8 | 4 | 1 | 12 | 1 |
| AG3803 | 1 | 5 | 8 | 8 | 6 |
| K08-2043 RR | 7 | 3 | 11 | 15 | 5 |
| K08-2449 RR | 2 | 6 | 18 | 5 | 7 |
| K08-2452 RR | 6 | 10 | 14 | 11 | 16 |
| K08-2509 RR | 4 | 1 | 10 | 2 | 13 |
| K08-2528 RR | 3 | 2 | 19 | 6 | 3 |
| K08-2529 RR | 11 | 13 | 15 | 4 | 15 |
| K08-2545 RR | 12 | 8 | 7 | 1 | 18 |
| U05-826080R | 9 | 7 | 5 | 13 | 8 |
| U05-840045R | 22 | 20 | 20 | 22 | 20 |
| U07-236420R | 17 | 19 | 12 | 17 | 17 |
| U07-236566R | 18 | 21 | 21 | 21 | 4 |
| U07-237320R | 21 | 22 | 17 | 19 | 22 |
| U07-237991R | 16 | 17 | 2 | 18 | 12 |
| U07-438943R | 14 | 16 | 6 | 3 | 14 |
| U07-439076R | 15 | 15 | 13 | 16 | 11 |
| U07-439221R | 10 | 11 | 9 | 14 | 9 |
| U08-914024R | 20 | 11 | 22 | 20 | 21 |
| U08-926022R | 5 | 14 | 3 | 7 | 19 |

UNIFORM TEST III Roundup-Ready, 2010

MATURITY (date)

| Strain | Mean 8 Tests | Urbana IL | Lafayette IN | Wanatah IN | Manhattan KS | Ottawa KS |
|------------------|--------------------|--------------|-----------------|---------------|-----------------|--------------|
| U03-827101 (SCN) | 9/26 | 9/27 | 9/26 | 10/3 | 10/11 | |
| NEX2905A0R (E) | -6.3 | -5 | -8 | -4 | -6 | |
| AG3504 | -2.9 | -3 | -2 | -2 | -5 | |
| AG3803 | 2.2 | 2 | 3 | 3 | 1 | |
| K08-2043 RR | 0.6 | 1 | 1 | -4 | 0 | |
| K08-2449 RR | 2.5 | 3 | 2 | 0 | 3 | |
| K08-2452 RR | 2.3 | 3 | 2 | 1 | 0 | |
| K08-2509 RR | 3.0 | 3 | 2 | 0 | 5 | |
| K08-2528 RR | 2.5 | 2 | 2 | 0 | 4 | |
| K08-2529 RR | 3.6 | 3 | 2 | 1 | 4 | |
| K08-2545 RR | -0.6 | 1 | -1 | -2 | 0 | |
| U05-826080R | -1.6 | -2 | 0 | -1 | -4 | |
| U05-840045R | -2.0 | -3 | -3 | 0 | -3 | |
| U07-236420R | -3.7 | -5 | -6 | -3 | -4 | |
| U07-236566R | -2.3 | -4 | -2 | -2 | -5 | |
| U07-237320R | -5.4 | -13 | -7 | -9 | 2 | |
| U07-237991R | -2.8 | -5 | -4 | -2 | -1 | |
| U07-438943R | 0.4 | -1 | 0 | 1 | 2 | |
| U07-439076R | -3.6 | -6 | -5 | -3 | -5 | |
| U07-439221R | -0.3 | -2 | 0 | 1 | 1 | |
| U08-914024R | 0.3 | 1 | 1 | 2 | -1 | |
| U08-926022R | 0.8 | 1 | 2 | 4 | -2 | |
| Date Planted | 5/25 | 5/26 | 5/26 | 6/10 | 6/2 | 6/21 |
| Days to Mature | 124 | 124 | 123 | 115 | 131 | |

UNIFORM TEST III Roundup-Ready, 2010

MATURITY (date)

| Strain | Portageville (Clay) MO | Portageville (Loam) MO | DeWitt NE | Lincoln NE | North Bend NE |
|------------------|------------------------------|------------------------------|--------------|---------------|---------------------|
| U03-827101 (SCN) | 9/22 | 9/7 | 9/25 | | 9/27 |
| NEX2905A0R (E) | -5 | -8 | -9 | | -6 |
| AG3504 | -4 | -4 | -3 | | 0 |
| AG3803 | 4 | 1 | 2 | | 2 |
| K08-2043 RR | 0 | 4 | 3 | | 0 |
| K08-2449 RR | 2 | 6 | 3 | | 1 |
| K08-2452 RR | 4 | 5 | 2 | | 1 |
| K08-2509 RR | 4 | 6 | 2 | | 2 |
| K08-2528 RR | 3 | 3 | 3 | | 3 |
| K08-2529 RR | 5 | 6 | 5 | | 3 |
| K08-2545 RR | 0 | -3 | 1 | | -1 |
| U05-826080R | -1 | -2 | -2 | | 0 |
| U05-840045R | -2 | -3 | -2 | | 0 |
| U07-236420R | -1 | -4 | -4 | | -3 |
| U07-236566R | -1 | -5 | 0 | | 0 |
| U07-237320R | 0 | -5 | -3 | | -8 |
| U07-237991R | 1 | -4 | -4 | | -3 |
| U07-438943R | 1 | -3 | 1 | | 2 |
| U07-439076R | -2 | -5 | -2 | | -1 |
| U07-439221R | 1 | -4 | 0 | | 1 |
| U08-914024R | -2 | -1 | 2 | | 1 |
| U08-926022R | 1 | -1 | 0 | | 1 |
| Date Planted | 5/26 | 5/6 | 5/6 | 5/19 | 5/17 |
| Days to Mature | 119 | 124 | 142 | | 133 |

UNIFORM TEST III Roundup-Ready, 2010

LODGING (score)

| Strain | Mean 8 Tests | Urbana IL | Lafayette IN | Wanatah IN | Manhattan KS | Ottawa KS |
|------------------|--------------------|--------------|-----------------|---------------|-----------------|--------------|
| U03-827101 (SCN) | 1.2 | 1.0 | 1.0 | 1.0 | 2.2 | 1.0 |
| NEX2905A0R (E) | 1.1 | 1.0 | 1.0 | 1.0 | 1.9 | 1.0 |
| AG3504 | 1.5 | 1.8 | 1.5 | 1.0 | 1.6 | 1.0 |
| AG3803 | 1.6 | 1.8 | 1.0 | 1.0 | 1.9 | 1.0 |
| K08-2043 RR | 1.9 | 1.3 | 1.5 | 1.0 | 2.8 | 1.0 |
| K08-2449 RR | 1.5 | 1.5 | 1.2 | 1.0 | 2.0 | 1.0 |
| K08-2452 RR | 1.3 | 1.0 | 1.3 | 1.0 | 2.0 | 1.0 |
| K08-2509 RR | 1.6 | 1.8 | 1.3 | 1.0 | 2.0 | 1.0 |
| K08-2528 RR | 1.5 | 1.8 | 1.3 | 1.0 | 1.9 | 1.0 |
| K08-2529 RR | 1.3 | 1.3 | 1.0 | 1.0 | 1.7 | 1.0 |
| K08-2545 RR | 1.3 | 1.3 | 1.0 | 1.0 | 2.1 | 1.0 |
| U05-826080R | 1.2 | 1.0 | 1.0 | 1.0 | 1.3 | 1.0 |
| U05-840045R | 1.2 | 1.5 | 1.0 | 1.0 | 1.8 | 1.0 |
| U07-236420R | 1.2 | 1.3 | 1.2 | 1.0 | 1.9 | 1.0 |
| U07-236566R | 1.1 | 1.0 | 1.0 | 1.0 | 1.8 | 1.0 |
| U07-237320R | 1.0 | 1.0 | 1.0 | 1.0 | 1.2 | 1.0 |
| U07-237991R | 1.4 | 1.0 | 1.0 | 1.0 | 2.1 | 1.0 |
| U07-438943R | 1.3 | 1.3 | 1.0 | 1.0 | 1.9 | 1.0 |
| U07-439076R | 1.3 | 1.0 | 1.0 | 1.0 | 2.3 | 1.0 |
| U07-439221R | 1.3 | 1.0 | 1.3 | 1.0 | 2.0 | 1.0 |
| U08-914024R | 1.4 | 1.3 | 1.2 | 1.0 | 2.3 | 1.0 |
| U08-926022R | 1.6 | 1.3 | 1.0 | 1.0 | 2.3 | 1.0 |

UNIFORM TEST III Roundup-Ready, 2010

LODGING (score)

| Strain | Portageville (Clay) MO | Portageville (Loam) MO | DeWitt NE | Lincoln NE | North Bend NE |
|------------------|------------------------------|------------------------------|--------------|---------------|---------------------|
| U03-827101 (SCN) | 1.0 | 1.0 | 1.0 | | |
| NEX2905A0R (E) | 1.0 | 1.0 | 1.0 | | |
| AG3504 | 2.0 | 2.0 | 1.0 | | |
| AG3803 | 3.0 | 2.0 | 1.0 | | |
| K08-2043 RR | 3.0 | 3.0 | 1.5 | | |
| K08-2449 RR | 2.0 | 2.0 | 1.0 | | |
| K08-2452 RR | 1.0 | 2.0 | 1.0 | | |
| K08-2509 RR | 3.0 | 2.0 | 1.0 | | |
| K08-2528 RR | 2.0 | 2.0 | 1.0 | | |
| K08-2529 RR | 2.0 | 1.0 | 1.0 | | |
| K08-2545 RR | 2.0 | 1.0 | 1.0 | | |
| U05-826080R | 2.0 | 1.0 | 1.0 | | |
| U05-840045R | 1.0 | 1.0 | 1.0 | | |
| U07-236420R | 1.0 | 1.0 | 1.0 | | |
| U07-236566R | 1.0 | 1.0 | 1.0 | | |
| U07-237320R | 1.0 | 1.0 | 1.0 | | |
| U07-237991R | 2.0 | 2.0 | 1.0 | | |
| U07-438943R | 2.0 | 1.0 | 1.0 | | |
| U07-439076R | 2.0 | 1.0 | 1.0 | | |
| U07-439221R | 2.0 | 1.0 | 1.0 | | |
| U08-914024R | 1.0 | 2.0 | 1.0 | | |
| U08-926022R | 3.0 | 2.0 | 1.0 | | |

UNIFORM TEST III Roundup-Ready, 2010

PLANT HEIGHT (inches)

| Strain | Mean 8 Tests | Urbana IL | Lafayette IN | Wanatah IN | Manhattan KS | Ottawa KS |
|------------------|--------------------|--------------|-----------------|---------------|-----------------|--------------|
| U03-827101 (SCN) | 34 | 37 | 42 | 33 | 39 | 26 |
| NEX2905A0R (E) | 31 | 40 | 39 | 32 | 28 | 23 |
| AG3504 | 38 | 45 | 46 | 37 | 45 | 26 |
| AG3803 | 38 | 41 | 45 | 37 | 44 | 26 |
| K08-2043 RR | 39 | 42 | 46 | 37 | 43 | 26 |
| K08-2449 RR | 39 | 46 | 46 | 37 | 44 | 26 |
| K08-2452 RR | 36 | 40 | 44 | 34 | 42 | 24 |
| K08-2509 RR | 39 | 45 | 47 | 35 | 43 | 26 |
| K08-2528 RR | 39 | 46 | 46 | 36 | 45 | 26 |
| K08-2529 RR | 37 | 41 | 46 | 35 | 45 | 25 |
| K08-2545 RR | 37 | 43 | 44 | 34 | 45 | 26 |
| U05-826080R | 36 | 41 | 45 | 34 | 42 | 23 |
| U05-840045R | 32 | 36 | 40 | 33 | 36 | 23 |
| U07-236420R | 41 | 50 | 50 | 39 | 49 | 29 |
| U07-236566R | 31 | 33 | 40 | 29 | 33 | 20 |
| U07-237320R | 34 | 40 | 44 | 37 | 36 | 25 |
| U07-237991R | 40 | 46 | 50 | 39 | 41 | 28 |
| U07-438943R | 39 | 44 | 50 | 39 | 46 | 24 |
| U07-439076R | 39 | 43 | 47 | 36 | 42 | 26 |
| U07-439221R | 34 | 41 | 44 | 34 | 37 | 23 |
| U08-914024R | 32 | 39 | 41 | 30 | 35 | 22 |
| U08-926022R | 37 | 45 | 45 | 35 | 41 | 26 |

UNIFORM TEST III Roundup-Ready, 2010

PLANT HEIGHT (inches)

| Strain | Portageville (Clay) MO | Portageville (Loam) MO | DeWitt NE | Lincoln NE | North Bend NE |
|------------------|------------------------------|------------------------------|--------------|---------------|---------------------|
| U03-827101 (SCN) | 32 | 32 | 31 | | |
| NEX2905A0R (E) | 26 | 22 | 35 | | |
| AG3504 | 32 | 32 | 40 | | |
| AG3803 | 34 | 31 | 43 | | |
| K08-2043 RR | 36 | 45 | 41 | | |
| K08-2449 RR | 36 | 41 | 33 | | |
| K08-2452 RR | 35 | 35 | 36 | | |
| K08-2509 RR | 33 | 39 | 44 | | |
| K08-2528 RR | 36 | 43 | 35 | | |
| K08-2529 RR | 33 | 35 | 32 | | |
| K08-2545 RR | 33 | 30 | 42 | | |
| U05-826080R | 32 | 30 | 38 | | |
| U05-840045R | 30 | 26 | 32 | | |
| U07-236420R | 34 | 34 | 43 | | |
| U07-236566R | 27 | 26 | 38 | | |
| U07-237320R | 31 | 24 | 34 | | |
| U07-237991R | 33 | 32 | 49 | | |
| U07-438943R | 33 | 32 | 41 | | |
| U07-439076R | 34 | 34 | 47 | | |
| U07-439221R | 29 | 32 | 34 | | |
| U08-914024R | 28 | 32 | 28 | | |
| U08-926022R | 33 | 30 | 45 | | |

UNIFORM TEST III Roundup-Ready, 2010

SEED QUALITY (score)

| Strain | Mean 8 Tests | Urbana IL | Lafayette IN | Wanatah IN | Manhattan KS | Ottawa KS |
|------------------|--------------------|--------------|-----------------|---------------|-----------------|--------------|
| U03-827101 (SCN) | 1.8 | 1.0 | 1.0 | 1.0 | 3.0 | 2.0 |
| NEX2905A0R (E) | 1.9 | 1.0 | 1.0 | 1.0 | 2.0 | 2.0 |
| AG3504 | 1.9 | 1.0 | 1.0 | 1.0 | 2.0 | 2.0 |
| AG3803 | 1.7 | 1.0 | 1.5 | 1.0 | 2.0 | 2.0 |
| K08-2043 RR | 2.0 | 1.0 | 1.0 | 1.0 | 2.0 | 2.0 |
| K08-2449 RR | 1.8 | 1.0 | 1.0 | 1.0 | 2.0 | 2.0 |
| K08-2452 RR | 1.8 | 1.0 | 1.0 | 1.0 | 2.0 | 2.0 |
| K08-2509 RR | 1.8 | 1.0 | 1.0 | 1.0 | 2.0 | 1.0 |
| K08-2528 RR | 1.9 | 1.0 | 1.0 | 1.0 | 2.0 | 2.0 |
| K08-2529 RR | 1.9 | 1.0 | 1.0 | 1.0 | 2.0 | 2.0 |
| K08-2545 RR | 1.8 | 1.0 | 1.0 | 1.0 | 2.0 | 2.0 |
| U05-826080R | 1.6 | 1.0 | 1.0 | 1.0 | 2.0 | 2.0 |
| U05-840045R | 1.9 | 1.0 | 1.0 | 1.0 | 2.0 | 2.0 |
| U07-236420R | 2.0 | 1.0 | 1.0 | 1.0 | 2.0 | 2.0 |
| U07-236566R | 1.9 | 2.0 | 1.0 | 1.0 | 2.0 | 2.0 |
| U07-237320R | 2.4 | 1.0 | 1.5 | 1.0 | 2.0 | 2.0 |
| U07-237991R | 2.1 | 1.0 | 1.0 | 1.0 | 3.0 | 2.0 |
| U07-438943R | 2.0 | 1.0 | 1.0 | 1.0 | 2.0 | 2.0 |
| U07-439076R | 2.0 | 1.0 | 1.0 | 1.0 | 2.0 | 2.0 |
| U07-439221R | 1.9 | 1.0 | 1.0 | 1.0 | 2.0 | 2.0 |
| U08-914024R | 1.8 | 1.0 | 1.0 | 1.0 | 2.0 | 2.0 |
| U08-926022R | 1.9 | 1.0 | 1.0 | 1.0 | 2.0 | 2.0 |

UNIFORM TEST III Roundup-Ready, 2010

SEED QUALITY (score)

| Strain | Portageville (Clay) MO | Portageville (Loam) MO | DeWitt NE | Lincoln NE | North Bend NE |
|------------------|------------------------------|------------------------------|--------------|---------------|---------------------|
| U03-827101 (SCN) | 2.0 | 3.0 | | | 1.0 |
| NEX2905A0R (E) | 3.0 | 4.0 | | | 1.0 |
| AG3504 | 3.0 | 3.0 | | | 2.0 |
| AG3803 | 2.0 | 3.0 | | | 1.0 |
| K08-2043 RR | 4.0 | 4.0 | | | 1.0 |
| K08-2449 RR | 3.0 | 3.0 | | | 1.0 |
| K08-2452 RR | 3.0 | 3.0 | | | 1.0 |
| K08-2509 RR | 3.0 | 4.0 | | | 1.0 |
| K08-2528 RR | 3.0 | 3.0 | | | 2.0 |
| K08-2529 RR | 3.0 | 4.0 | | | 1.0 |
| K08-2545 RR | 3.0 | 3.0 | | | 1.0 |
| U05-826080R | 2.0 | 3.0 | | | 1.0 |
| U05-840045R | 3.0 | 4.0 | | | 1.0 |
| U07-236420R | 3.0 | 5.0 | | | 1.0 |
| U07-236566R | 3.0 | 3.0 | | | 1.0 |
| U07-237320R | 5.0 | 5.0 | | | 2.0 |
| U07-237991R | 4.0 | 4.0 | | | 1.0 |
| U07-438943R | 3.0 | 4.0 | | | 2.0 |
| U07-439076R | 4.0 | 4.0 | | | 1.0 |
| U07-439221R | 4.0 | 3.0 | | | 1.0 |
| U08-914024R | 3.0 | 3.0 | | | 1.0 |
| U08-926022R | 4.0 | 3.0 | | | 1.0 |

UNIFORM TEST III Roundup-Ready, 2010

SEED SIZE (g/100)

| Strain | Mean 10 Tests | Urbana IL | Lafayette IN | Wanatah IN | Manhattan KS | Ottawa KS |
|------------------|---------------------|--------------|-----------------|---------------|-----------------|--------------|
| U03-827101 (SCN) | 13.7 | 13.1 | 13.7 | 12.8 | 17.1 | 15.3 |
| NEX2905A0R (E) | 11.4 | 11.5 | 10.9 | 9.8 | 15.8 | 11.9 |
| AG3504 | 12.9 | 12.9 | 13.3 | 12.6 | 14.6 | 13.9 |
| AG3803 | 14.2 | 14.1 | 14.4 | 13.6 | 17.0 | 16.8 |
| K08-2043 RR | 12.5 | 12.3 | 12.3 | 10.8 | 15.7 | 13.3 |
| K08-2449 RR | 14.1 | 13.7 | 13.3 | 12.0 | 17.2 | 16.0 |
| K08-2452 RR | 13.1 | 12.7 | 12.6 | 11.3 | 16.2 | 15.7 |
| K08-2509 RR | 14.1 | 14.0 | 13.0 | 11.6 | 17.3 | 15.5 |
| K08-2528 RR | 14.1 | 13.5 | 13.0 | 11.2 | 17.8 | 15.7 |
| K08-2529 RR | 14.0 | 13.6 | 13.2 | 12.3 | 16.4 | 15.4 |
| K08-2545 RR | 13.1 | 13.0 | 12.3 | 10.8 | 15.7 | 14.8 |
| U05-826080R | 14.1 | 13.1 | 13.8 | 13.4 | 17.5 | 15.9 |
| U05-840045R | 13.8 | 12.9 | 12.3 | 12.0 | 15.6 | 15.3 |
| U07-236420R | 13.1 | 12.9 | 12.6 | 12.1 | 17.0 | 15.2 |
| U07-236566R | 13.5 | 12.4 | 13.3 | 13.2 | 16.2 | 15.2 |
| U07-237320R | 13.5 | 13.1 | 13.0 | 12.3 | 17.9 | 13.7 |
| U07-237991R | 14.3 | 13.6 | 13.7 | 13.0 | 18.1 | 16.7 |
| U07-438943R | 14.2 | 14.1 | 14.0 | 12.4 | 17.9 | 16.3 |
| U07-439076R | 14.9 | 14.7 | 14.6 | 13.7 | 19.2 | 16.7 |
| U07-439221R | 13.2 | 12.7 | 12.8 | 12.1 | 16.7 | 14.5 |
| U08-914024R | 14.4 | 13.1 | 14.4 | 13.4 | 18.4 | 15.7 |
| U08-926022R | 14.4 | 14.2 | 14.4 | 13.4 | 17.6 | 16.6 |

UNIFORM TEST III Roundup-Ready, 2010

SEED SIZE (g/100)

| Strain | Portageville (Clay) MO | Portageville (Loam) MO | DeWitt NE | Lincoln NE | North Bend NE |
|------------------|------------------------------|------------------------------|--------------|---------------|---------------------|
| U03-827101 (SCN) | 13.3 | 12.2 | 11.7 | 14.4 | 13.2 |
| NEX2905A0R (E) | 10.7 | 10.0 | 10.3 | 12.8 | 10.7 |
| AG3504 | 11.9 | 11.3 | 11.5 | 13.3 | 13.5 |
| AG3803 | 13.9 | 12.0 | 12.9 | 14.0 | 13.5 |
| K08-2043 RR | 11.9 | 10.9 | 13.0 | 12.7 | 12.5 |
| K08-2449 RR | 14.1 | 13.8 | 12.6 | 15.9 | 12.8 |
| K08-2452 RR | 12.9 | 11.6 | 12.5 | 14.3 | 11.5 |
| K08-2509 RR | 14.3 | 14.1 | 12.3 | 15.6 | 13.4 |
| K08-2528 RR | 14.4 | 12.7 | 11.8 | 15.9 | 14.8 |
| K08-2529 RR | 14.0 | 14.0 | 12.7 | 15.7 | 13.1 |
| K08-2545 RR | 12.8 | 13.2 | 12.4 | 14.2 | 11.5 |
| U05-826080R | 14.0 | 13.4 | 12.4 | 14.4 | 12.7 |
| U05-840045R | 14.7 | 12.4 | 13.9 | 15.3 | 13.8 |
| U07-236420R | 12.3 | 11.9 | 11.6 | 13.8 | 11.4 |
| U07-236566R | 11.9 | 10.7 | 13.8 | 15.6 | 12.8 |
| U07-237320R | 11.3 | 13.7 | 13.8 | 14.8 | 11.7 |
| U07-237991R | 14.0 | 12.6 | 12.9 | 14.7 | 13.4 |
| U07-438943R | 14.3 | 12.1 | 13.1 | 13.5 | 14.0 |
| U07-439076R | 12.4 | 13.2 | 13.8 | 16.1 | 14.3 |
| U07-439221R | 13.6 | 11.1 | 11.2 | 14.5 | 13.1 |
| U08-914024R | 13.4 | 12.3 | 14.2 | 15.6 | 13.6 |
| U08-926022R | 13.2 | 12.0 | 13.5 | 15.3 | 13.5 |

UNIFORM TEST III Roundup-Ready, 2010

PROTEIN (%)

| Strain | Mean 6 Tests | Urbana IL | Lafayette IN | Wanatah IN | Manhattan KS | Portageville (Loam) MO | North Bend NE |
|------------------|--------------------|--------------|-----------------|---------------|-----------------|------------------------------|---------------------|
| U03-827101 (SCN) | 34.6 | 34.0 | 35.0 | 34.2 | 35.7 | 34.1 | 34.7 |
| NEX2905A0R (E) | 33.6 | 32.4 | 34.6 | 32.7 | 35.3 | 32.6 | 33.8 |
| AG3504 | 34.5 | 33.2 | 34.4 | 34.5 | 35.8 | 33.6 | 35.4 |
| AG3803 | 34.4 | 33.6 | 34.2 | 34.5 | 35.9 | 33.5 | 34.6 |
| K08-2043 RR | 32.2 | 30.7 | 33.0 | 31.0 | 35.1 | 31.3 | 32.1 |
| K08-2449 RR | 33.1 | 31.3 | 33.0 | 32.8 | 35.5 | 33.0 | 33.1 |
| K08-2452 RR | 33.7 | 32.4 | 33.8 | 33.5 | 35.2 | 33.4 | 33.8 |
| K08-2509 RR | 33.8 | 33.1 | 33.7 | 32.4 | 36.2 | 33.4 | 34.0 |
| K08-2528 RR | 33.3 | 32.4 | 33.5 | 32.1 | 35.4 | 32.8 | 33.7 |
| K08-2529 RR | 33.6 | 32.9 | 34.0 | 32.1 | 35.4 | 33.0 | 34.4 |
| K08-2545 RR | 33.7 | 33.4 | 34.7 | 32.5 | 35.0 | 33.0 | 33.6 |
| U05-826080R | 34.8 | 33.5 | 35.9 | 34.1 | 35.4 | 34.4 | 35.7 |
| U05-840045R | 33.6 | 32.9 | 34.8 | 32.8 | 34.9 | 31.7 | 34.6 |
| U07-236420R | 32.8 | 30.6 | 33.9 | 31.9 | 34.6 | 32.7 | 32.9 |
| U07-236566R | 32.5 | 31.3 | 33.5 | 31.0 | 34.3 | 31.2 | 33.9 |
| U07-237320R | 35.7 | 35.0 | 36.5 | 34.8 | 36.2 | 35.6 | 36.0 |
| U07-237991R | 34.1 | 32.2 | 34.3 | 33.1 | 36.0 | 34.3 | 34.5 |
| U07-438943R | 31.9 | 30.5 | 32.5 | 30.2 | 33.7 | 32.0 | 32.4 |
| U07-439076R | 33.8 | 32.9 | 34.5 | 32.1 | 34.9 | 34.2 | 34.2 |
| U07-439221R | 32.5 | 31.8 | 32.7 | 30.5 | 34.6 | 32.1 | 33.4 |
| U08-914024R | 32.9 | 31.3 | 34.2 | 31.6 | 35.0 | 31.4 | 34.0 |
| U08-926022R | 34.1 | 33.4 | 35.4 | 32.8 | 35.0 | 33.5 | 34.6 |

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

UNIFORM TEST III Roundup-Ready, 2010

OIL (%)

| Strain | Mean 6 Tests | Urbana IL | Lafayette IN | Wanatah IN | Manhattan KS | Portageville (Loam) MO | North Bend NE |
|------------------|--------------------|--------------|-----------------|---------------|-----------------|------------------------------|---------------------|
| U03-827101 (SCN) | 17.3 | 17.9 | 16.7 | 17.0 | 18.0 | 17.2 | 17.2 |
| NEX2905A0R (E) | 18.3 | 19.0 | 17.3 | 18.0 | 18.2 | 18.8 | 18.6 |
| AG3504 | 17.6 | 17.9 | 17.3 | 17.0 | 17.7 | 18.4 | 17.4 |
| AG3803 | 18.0 | 17.7 | 17.7 | 17.7 | 18.3 | 18.6 | 17.8 |
| K08-2043 RR | 18.8 | 19.7 | 18.2 | 18.6 | 18.0 | 19.5 | 19.1 |
| K08-2449 RR | 18.8 | 19.8 | 18.7 | 18.1 | 18.0 | 19.7 | 18.8 |
| K08-2452 RR | 18.3 | 19.1 | 17.7 | 18.2 | 17.8 | 18.5 | 18.2 |
| K08-2509 RR | 18.0 | 18.4 | 17.5 | 17.9 | 18.2 | 18.1 | 18.0 |
| K08-2528 RR | 18.3 | 18.7 | 18.0 | 17.9 | 17.8 | 19.3 | 18.3 |
| K08-2529 RR | 18.2 | 18.6 | 17.9 | 17.9 | 17.9 | 18.1 | 18.8 |
| K08-2545 RR | 18.6 | 19.6 | 18.4 | 17.9 | 17.8 | 19.1 | 18.6 |
| U05-826080R | 18.1 | 18.7 | 18.4 | 17.6 | 18.1 | 17.8 | 17.9 |
| U05-840045R | 19.0 | 19.6 | 18.1 | 18.2 | 19.3 | 20.3 | 18.7 |
| U07-236420R | 18.7 | 19.5 | 18.2 | 18.4 | 18.4 | 18.7 | 18.8 |
| U07-236566R | 18.8 | 19.6 | 17.9 | 18.9 | 18.7 | 19.5 | 18.3 |
| U07-237320R | 17.3 | 18.4 | 16.6 | 17.2 | 17.0 | 17.5 | 17.0 |
| U07-237991R | 17.8 | 18.6 | 17.2 | 17.6 | 18.2 | 17.4 | 17.9 |
| U07-438943R | 18.8 | 20.0 | 17.9 | 19.0 | 18.5 | 18.8 | 18.9 |
| U07-439076R | 18.1 | 18.7 | 17.6 | 18.0 | 18.2 | 18.5 | 17.9 |
| U07-439221R | 18.4 | 18.8 | 17.9 | 18.7 | 18.4 | 18.5 | 18.2 |
| U08-914024R | 18.3 | 18.9 | 18.0 | 18.2 | 17.4 | 19.3 | 18.3 |
| U08-926022R | 18.6 | 18.9 | 18.5 | 18.3 | 18.0 | 19.3 | 18.3 |

Preliminary Test IV Roundup-Ready, 2010

| Ent. | Strain | Parentage | Seed Source | Gen. Comp. | Unique Traits |
|------|-----------|---------------------------|-------------|------------|---------------|
| 1. | AG4005 | na | Monsanto | | |
| 2. | AG3803 | na | Monsanto | | RR, SCN |
| 3. | AG4403 | na | Monsanto | | RR, SCN |
| 4. | S07-11606 | S02-577 x S03-3923RR | Shannon | F5 | SCN,RR |
| 5. | S08-2014 | S04-3962RR x S04-5997RR | Shannon | F5 | SCN,RR |
| 6. | S08-4714 | LD00-3309 x S04-5969RR | Shannon | F5 | SCN,RR |
| 7. | S08-4715 | LD00-3309 x S04-5969RR | Shannon | F5 | SCN,RR |
| 8. | S08-4719 | LD00-3309 x S04-5969RR | Shannon | F5 | SCN,RR |
| 9. | S08-5932 | LD00-3309 x SG 4460NRR | Shannon | F5 | SCN,RR |
| 10. | S08-8301 | S04-5969RR X SCHILL 495RC | Shannon | F5 | SCN,RR |
| 11. | S08-8467 | S04-5969RR x SG 4460NRR | Shannon | F5 | SCN,RR |

PRELIMINARY TEST IV Roundup-Ready, 2010

DESCRIPTIVE AND DISEASE DATA

| Strain | Descriptive Code | <u>Green Stem</u> | <u>Shattering</u> | <u>PR</u> | | <u>FE</u> |
|-------------|------------------|--------------------|--------------------|------------------|------------------|------------|
| | | Score Lafayette IN | Score Manhattan KS | Race Lafayette 4 | Race Lafayette 7 | Laf. a rx. |
| AG4005 (IV) | WTBDYBII | 1.0 | 1.0 | R* | R* | S |
| AG3803 | PGBDYLbfI | 1.0 | 2.0 | S | R | S |
| AG4403 | PLtTDYBII | 1.0 | 1.0 | S | S | S |
| S07-11606 | PTTDYBII | 1.0 | 2.0 | S | S | S |
| S08-2014 | PLtTDYBII | 1.0 | 2.0 | S | S | S |
| S08-4714 | PLtBDYBII | 1.0 | 2.0 | S | S | S |
| S08-4715 | PLtTDYBII | 1.0 | 1.0 | S | S | S |
| S08-4719 | PLtTDYBII | 1.0 | 3.0 | S | S | S |
| S08-5932 | PLtBIYBII | 1.0 | 2.0 | H* | S | S |
| S08-8301 | PLtTFYBII | 1.0 | 2.0 | S | S | S |
| S08-8467 | PLtTDYBII | 1.0 | 2.0 | S | S | S |

FE: S = susceptible, - = lesions not detected, x = no data

PR: * = *P. sojae* inoc. Reaction NOT compatible with breeder's information about *Rps* Trait

PRELIMINARY TEST IV, Roundup-Ready, 2010

REGIONAL SUMMARY

| No. of Tests StraIL | Yield 8 bu/a | Rank 8 No. | Maturity 7 Date | Lodging 8 Score | Plant Height 7 IL. | Seed Quality 7 g/100 | Seed Size 7 Score | <u>Composition</u> | |
|------------------------|--------------------|------------------|-----------------------|-----------------------|-----------------------------|-------------------------------|----------------------------|--------------------|---------------|
| | | | | | | | | Protein 4 % | Oil 4 % |
| AG4005 (IV) | 60.5 | 1 | 10/3 | 1.6 | 40 | 1.5 | 15.8 | 34.8 | 17.8 |
| AG3803 | 60.1 | 2 | -2.9 | 2.0 | 39 | 1.4 | 14.7 | 34.3 | 18.0 |
| AG4403 | 57.9 | 3 | 1.6 | 1.9 | 44 | 1.4 | 13.2 | 32.9 | 18.5 |
| S07-11606 | 50.0 | 11 | 2.5 | 2.2 | 45 | 1.8 | 14.1 | 33.9 | 17.0 |
| S08-2014 | 56.1 | 6 | 2.8 | 2.5 | 47 | 1.5 | 15.8 | 33.5 | 18.3 |
| S08-4714 | 55.9 | 7 | 2.8 | 2.2 | 42 | 1.7 | 12.5 | 32.9 | 17.9 |
| S08-4715 | 57.3 | 5 | 1.5 | 2.0 | 42 | 1.6 | 13.7 | 33.3 | 18.2 |
| S08-4719 | 51.9 | 10 | 0.1 | 1.9 | 44 | 1.6 | 13.5 | 33.4 | 18.0 |
| S08-5932 | 54.7 | 9 | -1.8 | 2.1 | 41 | 1.4 | 12.8 | 32.9 | 18.3 |
| S08-8301 | 55.6 | 8 | 2.7 | 1.7 | 42 | 1.5 | 13.9 | 33.2 | 18.4 |
| S08-8467 | 57.9 | 4 | -1.6 | 1.9 | 41 | 1.6 | 12.7 | 32.1 | 18.3 |

124.8 Days After Planting

PRELIMINARY TEST IV, Roundup-Ready, 2010

YIELD (bu/a)

| Strain | Mean | Belleville IL | Urbana IL | Lafayette IN | Manhattan KS | Ottawa KS | Queenstown MD | Columbia MO | Portageville |
|---------------|------------|------------------|--------------|-----------------|-----------------|--------------|------------------|----------------|--------------|
| | 8 Tests | | | | | | | | (Clay) MO |
| AG4005 (IV) | 60.5 | 68.8 | 63.9 | 76.8 | 47.8 | 41.1 | 58.0 | 60.8 | 66.7 |
| AG3803 | 60.1 | 66.0 | 63.3 | 74.3 | 57.4 | 40.4 | 61.6 | 56.8 | 60.7 |
| AG4403 | 57.9 | 66.0 | 60.0 | 63.3 | 50.0 | 41.5 | 58.1 | 57.2 | 67.3 |
| S07-11606 | 50.0 | 54.0 | 47.1 | 47.7 | 56.9 | 39.6 | 49.8 | 50.7 | 54.3 |
| S08-2014 | 56.1 | 61.9 | 62.3 | 64.1 | 53.3 | 43.3 | 53.5 | 55.1 | 55.6 |
| S08-4714 | 55.9 | 59.7 | 61.4 | 62.7 | 51.5 | 41.5 | 54.8 | 54.6 | 61.2 |
| S08-4715 | 57.3 | 59.9 | 60.7 | 54.4 | 58.4 | 45.6 | 63.0 | 53.7 | 62.5 |
| S08-4719 | 51.9 | 53.5 | 54.5 | 48.2 | 53.7 | 38.2 | 49.7 | 51.6 | 65.9 |
| S08-5932 | 54.7 | 49.1 | 65.3 | 67.2 | 58.4 | 38.3 | 49.6 | 54.0 | 56.0 |
| S08-8301 | 55.6 | 65.3 | 57.2 | 51.0 | 54.3 | 41.2 | 53.9 | 55.6 | 66.3 |
| S08-8467 | 57.9 | 61.3 | 61.3 | 64.3 | 58.7 | 39.6 | 63.7 | 51.0 | 63.5 |
| Location Mean | | 60.5 | 59.7 | 61.3 | 54.6 | 40.9 | 56.0 | 54.6 | 61.8 |
| C.V. (%) | | 7.3 | 5.6 | 11.0 | 5.3 | 5.3 | 7.2 | 5.9 | 5.1 |
| L.S.D. (5%) | | 9.8 | 7.5 | 14.8 | 5.2 | 4.0 | 9.0 | 5.9 | 7.1 |
| Row Sp. (IN.) | | 30 | 30 | 30 | 30 | 30 | 24 | 30 | 30 |
| Rows/Plot | | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Reps | | 2 | 2 | 3 | 2 | 2 | 2 | 2 | 2 |

PRELIMINARY TEST IV, Roundup-Ready, 2010

YIELD RANK

| Strain | Mean 8 Tests | Belleville IL | Urbana IL | Lafayette IN | Manhattan KS | Ottawa KS | Queenstown MD | Columbia MO | Portageville (Clay) MO |
|-------------|--------------------|------------------|--------------|-----------------|-----------------|--------------|------------------|----------------|------------------------------|
| AG4005 (IV) | 1 | 1 | 2 | 1 | 11 | 6 | 5 | 1 | 2 |
| AG3803 | 2 | 2 | 3 | 2 | 4 | 7 | 3 | 3 | 8 |
| AG4403 | 3 | 2 | 8 | 6 | 10 | 3 | 4 | 2 | 1 |
| S07-11606 | 11 | 9 | 11 | 11 | 5 | 8 | 9 | 11 | 11 |
| S08-2014 | 6 | 5 | 4 | 5 | 8 | 2 | 8 | 5 | 10 |
| S08-4714 | 7 | 8 | 5 | 7 | 9 | 3 | 6 | 6 | 7 |
| S08-4715 | 5 | 7 | 7 | 8 | 2 | 1 | 2 | 8 | 6 |
| S08-4719 | 10 | 10 | 10 | 10 | 7 | 11 | 10 | 9 | 4 |
| S08-5932 | 9 | 11 | 1 | 3 | 2 | 10 | 11 | 7 | 9 |
| S08-8301 | 8 | 4 | 9 | 9 | 6 | 5 | 7 | 4 | 3 |
| S08-8467 | 4 | 6 | 6 | 4 | 1 | 8 | 1 | 10 | 5 |

PRELIMINARY TEST IV, Roundup-Ready, 2010

MATURITY (date)

| Strain | Mean 7 Tests | Belleville IL | Urbana IL | Lafayette IN | Manhattan KS | Ottawa KS | Queenstown MD | Columbia MO | Portageville (Clay) MO |
|----------------|--------------------|------------------|--------------|-----------------|-----------------|--------------|------------------|----------------|------------------------------|
| AG4005 (IV) | 10/3 | 10/4 | 10/4 | 10/3 | 10/8 | | 10/6 | 9/29 | 9/27 |
| AG3803 | -2.9 | -6 | -5 | -3 | 2 | | -5 | -2 | -1 |
| AG4403 | 1.6 | 2 | 2 | 5 | -3 | | 0 | 3 | 2 |
| S07-11606 | 2.5 | 2 | 3 | 6 | 2 | | 1 | 4 | 0 |
| S08-2014 | 2.8 | 1 | 3 | 5 | 0 | | 2 | 4 | 4 |
| S08-4714 | 2.8 | 1 | 2 | 7 | 7 | | -5 | 4 | 3 |
| S08-4715 | 1.5 | 2 | 1 | 1 | 8 | | -5 | 2 | 1 |
| S08-4719 | 0.1 | -1 | 0 | -1 | 5 | | -5 | 2 | 0 |
| S08-5932 | -1.8 | -6 | -2 | -2 | 5 | | -5 | -1 | -1 |
| S08-8301 | 2.7 | 0 | 1 | 3 | 8 | | 1 | 3 | 3 |
| S08-8467 | -1.6 | -3 | -5 | -2 | 3 | | 0 | -1 | -3 |
| Date Planted | 5/31 | 6/3 | 5/26 | 5/26 | 6/2 | 6/21 | 5/27 | 5/26 | 5/26 |
| Days to Mature | 125 | 123 | 131 | 130 | 128 | | 132 | 126 | 124 |

PRELIMINARY TEST IV, Roundup-Ready, 2010

LODGING (score)

| Strain | Mean 8 Tests | Belleville IL | Urbana IL | Lafayette IN | Manhattan KS | Ottawa KS | Queenstown MD | Columbia MO | Portageville (Clay) MO |
|-------------|--------------------|------------------|--------------|-----------------|-----------------|--------------|------------------|----------------|------------------------------|
| AG4005 (IV) | 1.6 | 2.5 | 1.0 | 1.0 | 1.9 | 1.0 | 1.5 | 2.0 | 2.0 |
| AG3803 | 2.0 | 3.0 | 1.3 | 1.0 | 2.3 | 1.0 | 2.5 | 2.5 | 2.0 |
| AG4403 | 1.9 | 3.0 | 1.5 | 1.0 | 1.8 | 1.0 | 2.8 | 2.0 | 2.0 |
| S07-11606 | 2.2 | 4.0 | 1.0 | 1.0 | 1.8 | 1.0 | 3.0 | 3.5 | 2.0 |
| S08-2014 | 2.5 | 3.5 | 2.0 | 1.3 | 2.5 | 1.0 | 3.3 | 3.0 | 3.0 |
| S08-4714 | 2.2 | 4.0 | 1.8 | 1.3 | 2.0 | 1.0 | 2.0 | 2.5 | 3.0 |
| S08-4715 | 2.0 | 3.5 | 1.5 | 1.3 | 2.1 | 1.0 | 2.8 | 2.0 | 2.0 |
| S08-4719 | 1.9 | 2.5 | 1.5 | 1.3 | 2.2 | 1.0 | 2.3 | 2.0 | 2.0 |
| S08-5932 | 2.1 | 3.5 | 1.5 | 1.3 | 1.9 | 1.0 | 2.8 | 3.0 | 2.0 |
| S08-8301 | 1.7 | 2.0 | 1.0 | 1.0 | 2.3 | 1.0 | 2.3 | 2.0 | 2.0 |
| S08-8467 | 1.9 | 3.0 | 1.5 | 1.0 | 1.8 | 1.0 | 3.0 | 2.0 | 2.0 |

PRELIMINARY TEST IV, Roundup-Ready, 2010

PLANT HEIGHT (Inches)

| Strain | Mean 7 Tests | Belleville IL | Urbana IL | Lafayette IN | Manhattan KS | Ottawa KS | Queenstown MD | Columbia MO | Portageville (Clay) MO |
|-------------|--------------------|------------------|--------------|-----------------|-----------------|--------------|------------------|----------------|------------------------------|
| AG4005 (IV) | 40 | 46 | 42 | 48 | 41 | 27 | 38 | | 40 |
| AG3803 | 39 | 51 | 40 | 46 | 31 | 27 | 40 | | 36 |
| AG4403 | 44 | 52 | 45 | 50 | 45 | 29 | 44 | | 41 |
| S07-11606 | 45 | 54 | 49 | 52 | 44 | 31 | 48 | | 38 |
| S08-2014 | 47 | 53 | 53 | 56 | 47 | 33 | 47 | | 43 |
| S08-4714 | 42 | 48 | 49 | 50 | 41 | 26 | 38 | | 40 |
| S08-4715 | 42 | 46 | 45 | 50 | 42 | 28 | 41 | | 43 |
| S08-4719 | 44 | 51 | 49 | 51 | 42 | 28 | 41 | | 44 |
| S08-5932 | 41 | 43 | 45 | 50 | 42 | 27 | 43 | | 40 |
| S08-8301 | 42 | 44 | 44 | 51 | 42 | 28 | 41 | | 44 |
| S08-8467 | 41 | 44 | 43 | 48 | 44 | 27 | 41 | | 40 |

PRELIMINARY TEST IV, Roundup-Ready, 2010

SEED QUALITY (score)

| Strain | Mean 7 Tests | Belleville IL | Urbana IL | Lafayette IN | Manhattan KS | Ottawa KS | Queenstown MD | Columbia MO | Portageville (Clay) MO |
|-------------|--------------------|------------------|--------------|-----------------|-----------------|--------------|------------------|----------------|------------------------------|
| AG4005 (IV) | 1.5 | 1.0 | 1.0 | 1.0 | 2.0 | 2.0 | 1.5 | | 2.0 |
| AG3803 | 1.4 | 1.0 | 1.0 | 1.0 | 2.0 | 2.0 | 1.0 | | 2.0 |
| AG4403 | 1.4 | 1.0 | 1.0 | 1.0 | 2.0 | 1.0 | 1.0 | | 3.0 |
| S07-11606 | 1.8 | 1.0 | 1.0 | 1.0 | 2.0 | 2.0 | 1.3 | | 4.0 |
| S08-2014 | 1.5 | 1.0 | 1.0 | 1.0 | 2.0 | 2.0 | 1.5 | | 2.0 |
| S08-4714 | 1.7 | 1.0 | 1.0 | 1.0 | 2.0 | 2.0 | 1.0 | | 4.0 |
| S08-4715 | 1.6 | 1.0 | 1.0 | 1.0 | 2.0 | 2.0 | 1.3 | | 3.0 |
| S08-4719 | 1.6 | 1.0 | 1.0 | 1.0 | 3.0 | 1.0 | 1.3 | | 3.0 |
| S08-5932 | 1.4 | 1.0 | 1.0 | 1.0 | 2.0 | 2.0 | 1.0 | | 2.0 |
| S08-8301 | 1.5 | 1.0 | 1.0 | 1.0 | 2.0 | 1.0 | 1.3 | | 3.0 |
| S08-8467 | 1.6 | 1.0 | 1.0 | 1.0 | 2.0 | 2.0 | 1.0 | | 3.0 |

PRELIMINARY TEST IV, Roundup-Ready, 2010

SEED SIZE (g/100)

| Strain | Mean 7 Tests | Belleville IL | Urbana IL | Lafayette IN | Manhattan KS | Ottawa KS | Queenstown MD | Columbia MO | Portageville (Clay) MO |
|-------------|--------------------|------------------|--------------|-----------------|-----------------|--------------|------------------|----------------|------------------------------|
| AG4005 (IV) | 15.8 | 14.7 | 14.1 | 15.1 | 16.8 | 18.9 | 14.9 | | 15.9 |
| AG3803 | 14.7 | 13.7 | 14.0 | 14.5 | 14.4 | 17.1 | 14.4 | | 14.6 |
| AG4403 | 13.2 | 12.3 | 12.0 | 12.6 | 15.2 | 15.7 | 12.6 | | 12.0 |
| S07-11606 | 14.1 | 13.8 | 12.7 | 12.0 | 16.2 | 16.9 | 13.6 | | 13.2 |
| S08-2014 | 15.8 | 14.5 | 14.9 | 15.0 | 16.2 | 18.2 | 16.5 | | 15.0 |
| S08-4714 | 12.5 | 11.1 | 11.3 | 11.4 | 17.3 | 14.5 | 11.3 | | 10.9 |
| S08-4715 | 13.7 | 12.8 | 13.0 | 12.9 | 16.4 | 15.6 | 12.8 | | 12.7 |
| S08-4719 | 13.5 | 13.0 | 12.6 | 11.6 | 16.6 | 15.9 | 12.3 | | 12.8 |
| S08-5932 | 12.8 | 11.4 | 12.5 | 12.3 | 15.4 | 14.2 | 12.1 | | 11.7 |
| S08-8301 | 13.9 | 11.8 | 12.9 | 11.8 | 17.5 | 16.5 | 13.0 | | 13.8 |
| S08-8467 | 12.7 | 12.7 | 11.5 | 11.8 | 15.8 | 14.1 | 11.9 | | 11.3 |

PRELIMINARY TEST IV, Roundup-Ready, 2010

PROTEIN (%)

| Strain | Mean 4 Tests | Urbana IL | Lafayette IN | Manhattan KS | Portageville (Clay) MO |
|-------------|--------------------|--------------|-----------------|-----------------|------------------------------|
| AG4005 (IV) | 34.8 | 34.5 | 34.0 | 35.3 | 35.5 |
| AG3803 | 34.3 | 33.8 | 34.5 | 34.4 | 34.6 |
| AG4403 | 32.9 | 31.8 | 33.4 | 35.1 | 31.3 |
| S07-11606 | 33.9 | 32.6 | 34.2 | 35.6 | 33.4 |
| S08-2014 | 33.5 | 32.7 | 34.8 | 34.3 | 32.4 |
| S08-4714 | 32.9 | 31.5 | 32.7 | 34.6 | 32.9 |
| S08-4715 | 33.3 | 32.0 | 33.7 | 35.1 | 32.4 |
| S08-4719 | 33.4 | 31.5 | 34.1 | 35.2 | 32.6 |
| S08-5932 | 32.9 | 32.0 | 32.9 | 34.9 | 31.8 |
| S08-8301 | 33.2 | 32.0 | 33.2 | 34.7 | 32.8 |
| S08-8467 | 32.1 | 30.8 | 32.1 | 34.5 | 31.0 |

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

PRELIMINARY TEST IV, Roundup-Ready, 2010

OIL (%)

| Strain | Mean 4 Tests | Urbana IL | Lafayette IN | Manhattan KS | Portageville (Clay) MO |
|-------------|--------------------|--------------|-----------------|-----------------|------------------------------|
| AG4005 (IV) | 17.8 | 18.6 | 17.6 | 17.5 | 17.4 |
| AG3803 | 18.0 | 18.2 | 18.3 | 18.6 | 16.9 |
| AG4403 | 18.5 | 18.9 | 18.1 | 17.8 | 19.0 |
| S07-11606 | 17.0 | 17.2 | 16.5 | 18.0 | 16.3 |
| S08-2014 | 18.3 | 18.1 | 18.4 | 18.6 | 18.0 |
| S08-4714 | 17.9 | 18.5 | 18.0 | 18.0 | 17.2 |
| S08-4715 | 18.2 | 18.3 | 17.9 | 18.2 | 18.2 |
| S08-4719 | 18.0 | 18.6 | 17.6 | 17.7 | 17.9 |
| S08-5932 | 18.3 | 18.7 | 18.6 | 18.0 | 18.1 |
| S08-8301 | 18.4 | 19.4 | 18.3 | 17.9 | 17.9 |
| S08-8467 | 18.3 | 18.8 | 17.9 | 18.3 | 18.3 |