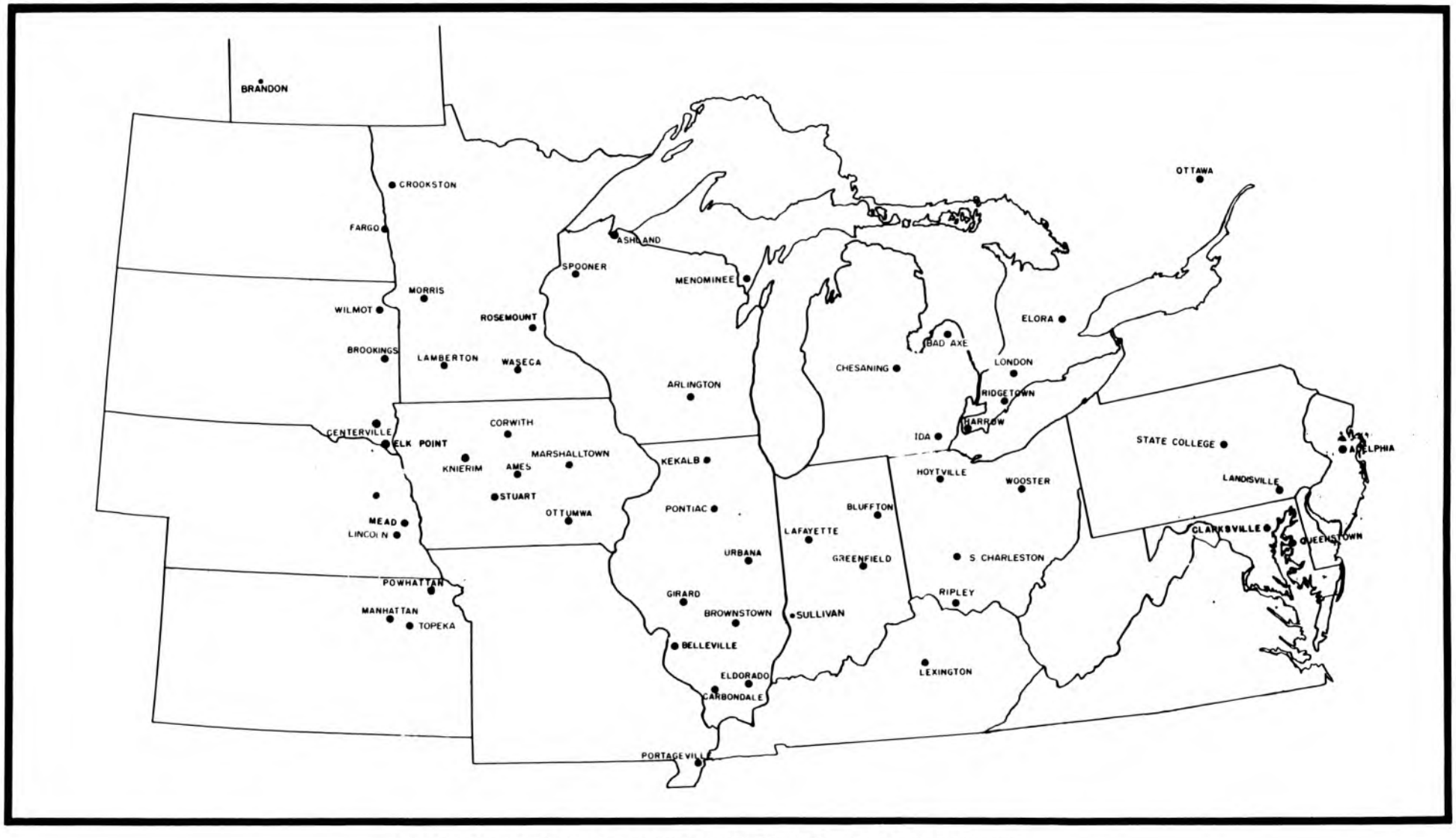


LOCATIONS OF UNIFORM SOYBEAN TESTS, NORTHERN STATES, 1983

# THE UNIFORM SOYBEAN TESTS

## NORTHERN STATES

## 1988

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## ACKNOWLEDGEMENTS

The cooperation of James F. Cavins and Donna I. Thomas, Analytical Chemistry Support Unit, Northern Regional Research Center, Peoria, Illinois, in their analyses of Uniform Test samples for protein and oil content of the seeds is gratefully acknowledged. The assistance of Wad Crochet, Gary Nowling, Jerry Powell, and Edwin Racop in packeting and distributing seed for the Uniform Tests and in data summarization is sincerely appreciated.

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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 for the northern fringe of the present area of soybean production. Uniform Tests 0 through IV include later 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. The summary of performance of strains in Uniform Tests 00 through IV in the northern states is included in this report. The report on Uniform Tests IVS through VIII in the southern states is issued separately.

Data from the Uniform Tests form 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 at a limited number of locations for one year before they are entered in the Uniform Tests. Uniform Tests are grown at a larger number of locations with more replications than Preliminary Tests.

Experimental lines entered in the uniform tests should be labelled "Experimental Line" and not identified by code numbers when grown in demonstration plots or when the uniform tests are shown on field days or farm tours.

Seed of experimental lines entered in the preliminary or uniform tests should not be sent to non-participants or be used in any evaluations other than these tests without permission of the originator. Requests for seed of unreleased lines or experimental strains should be referred to the breeder or agency originating the strain, listed on page 5.

The Uniform 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 permission has been obtained previously by those concerned.

## STRAIN DESIGNATION

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 experimental station agronomists cooperating with the U.S. Department of Agriculture.

| | |
|---|---|
| A | Iowa A.E.S. |
| Ar | Arizona A.E.S. |
| Au | Alabama A.E.S. |
| B | California |
| C | Purdue (Indiana) A.E.S. |
| CM | Canada Dept. of Agriculture, Morden, Manitoba |
| D | Mississippi A.E.S. |
| E | Michigan A.E.S. |
| F | Florida A.E.S. |
| FC | Forge and Range Research Branch, U.S.D.A. |
| Ga | Georgia A.E.S. |
| H | Ohio A.R.D.C. (HC - R. L. Cooper, HM - B. A. McBlain) |
| K | Kansas A.E.S. |
| Ky | Kentucky A.E.S. |
| L | Illinois A.E.S. (L - R. L. Bernard, LN - C. D. Nickell) |
| 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. |
| O | Central Experimental Farm, Ottawa, Ontario |
| OX | Research Station, Harrow, Ontario |
| OAC | University of Guelph, Guelph, Ontario |
| ORC | Ridgetown College, Ontario |
| Ok | Oklahoma A.E.S. |
| PI | Plant Inventory |
| R | Arkansas A.E.S. |
| S | Missouri A.E.S. |
| SC | South Carolina A.E.S. |
| SD | South Dakota A.E.S. |
| SL | Two or more states cooperatively |
| Ts | Texas A.E.S. |
| T | Soybean Genetic Type Collection, U.S.D.A., Urbana, IL |
| U | 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. |

## METHODS

Uniform Tests are planted in multiple row plots with three or four replications and the center rows are harvested. Preliminary Tests are multiple row plots (the center rows harvested) with two replications. Usually 15 to 20 feet of row are planted and 12 to 16 feet harvested, to eliminate end-of-row effects. At the Soybean Workers Conference in Memphis, Tennessee on February 24 and 25, 1976, the Northern Breeders discussed and made the following recommendation: Only data from bordered row plots will be included in the regional means. Yield means will not be included in regional means if they do not have a CV value. Discretion will be used when including values that have a high CV. If the CV value is high (greater than 15), participants should include the reason, such as disease or environmental conditions. Lines will be allowed to be heterogeneous the first year in the Uniform tests but must be a pure line the second year of testing. If the breeder plans on purifying the line, please so indicate, and the line will be so marked when test participants vote on it for further testing they will know it will be purified.

Generation Composited is the generation after the final single-plant selection in which the line is composited.

Previous Testing. The number of previous years in the same Uniform Test is given, or, in the case of new entries, a reference to last year's test, abbreviated UT 0 for Uniform Test 0, PT III for Preliminary Test III, etc.

Yield is measured after the seeds have been dried to a 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. Delayed leaf drop and green stems are not considered in assigning maturity. Maturity is expressed as days earlier (-) or later (+) than the average date of the reference variety. To aid in maturity group classification, one earlier and one later "tie" variety are given on the maturity table for each test. Current reference and tie varieties and the maturity group limits relative to the reference varieties are:

| Group | Reference | Range | Early Tie | Late Tie |
|---|---|---|---|---|
| 00 | McCall | -7 to +5 | | Clay (0) |
| 0 | Dawson | -5 to +3 | McCall (00) | Sibley (I) |
| I | Sibley | -4 to +4 | Dawson (0) | Elgin 87(II) |
| II | Elgin 87 | -4 to +4 | Hardin (I) | Zane (III) |
| III | Resnik | -4 to +4 | Century 84 (II) | Flyer (IV) |
| IV | Spencer | -4 to +7 | Flyer (III) | Pennyrile (IV) |

These maturity group ranges are based on long-time 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.

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°), 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 plants from the ground to the tip of the main stem at the time of maturity. (To convert to centimeters, multiply by 2.54).

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 rotten seeds. (Threshing or handling damage is not considered, nor is mottling or other pigment).

1 Very Good 2 Good 3 Fair 4 Poor 5 Very Poor

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

Seed Composition is measured on samples submitted to the Northern Regional Research Center, 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 using Infrared reflectance.

Descriptive Code: 1 2 3 4 5 6, 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, Tan, Yellow; prefixes indicate Light or Dark shades, e.g., Lbf - light buff, Dib - dark imperfect black.
7 - Stem termination: Determinate, Indeterminate, Semi-Determinate.

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 1/2 - inch depth in sand. Only the seedlings which have emerged by 12 days after planting are counted. Emergence score in relation to % of seeds which germinate and emerge are as follows:

1 ≥ 96%
2 = 91 - 95%
3 = 85 - 90%
4 = 76 - 84%
5 ≤ 75%

## 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 seedcoat 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. Clearcut 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 planting in others. Absence of symptoms under natural infection does not necessarily mean high resistance.

| Abbreviation | Disease | Pathogen |
|---|---|---|
| BB | Bacterial blight | *Pseudomonas syringa* pv. *glycinea* |
| BBV | Bud blight | Tobacco ringspot virus |
| BP | Bacterial pustule | *Xanthomonas campestris* pv. *phaseoli* |
| BS | Brown spot | *Septoria glycines* |
| BSR | Brown stem rot | *Phialophora gregata* |
| BTS | Bacterial tan spot | *Corynebacterium flaccumfaciens* |
| CN | Cyst nematode | *Heterodera glycines* |
| CR | Charcoal rot | *Macrophomina phaseolina* |
| DM | Downy mildew | *Peronospora manshurica* |
| $FE_1$, $FE_2$ | Frogeye, race 1, 2 | *Cercospora sojina* |
| PM | Powdery mildew | *Microsphaera diffusa* |
| PR | Phytophthora rot | *Phytophthora megasperma* f. sp. *glycinea* |
| PS | Purple stain | *Cercospora kikuchii* |
| PSB | Pod & stem blight | *Diaporthe phaseolorum* var. *sojae* |
| Pyd | Pythium root rot | *Pythium debaryanum* |
| Pyu | Pythium root rot | *Pythium ultimum* |
| RK | Root knot nematode | *Meloidogyne spp.* |
| RP | Rhizoctonia root rot | *Rhizoctonia solani* |
| SB | Sclerotial blight | *Sclerotium rolfsii* |
| SC | Stem canker | *Diaporthe phaseolorum* var. *caulivora* |
| SMV | Soybean mosaic | *Soja* virus 1 |
| TS | Target spot | *Corynespora cassiicola* |
| WF | Wildfire | *Pseudomonas syringae* pv. *tabaci* |
| YMV | Yellow mosaic | *Phaseolus* virus 2 |

Ratings for BB, BP, DM, $FE_2$, and PM were based on leaf symptoms; those for BSR on percent of plants with stem browning, or percent of stem length browned.

Tolerance rating categories for Phytophthora were as follows:

1 = No root rot, very vigorous.
2 = No root rot, very vigorous.
3 = No root rot, average vigor.
4 = No root rot, slight stunting.
5 = Up to 10% dead plants, slight stunting.
6 = Up to 20% dead plants, moderate stunting.
7 = Up to 50% dead plants, moderate to severe stunting.
8 = More than 50% dead plants, severe stunting.
9 = All plants died before flowering.
10 = Plants did not emerge or died soon after emergence.

The percent germination is based on a 100 - seed sample placed on potato-dextrose agar in petri plates. Percent hard seed is based on the number of seeds in this test that did not imbibe water.

The percent green seed is based on a 100 - seed sample and is the number of seed with a green or partially green seedcoat.

## POLICY ON TESTING AND RELEASE OF STRAINS

This policy on testing and release of soybean strains evaluated in the Uniform Soybean Tests, Northern States, has been agreed upon by public soybean breeders. 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 in 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 Uniform Soybean Tests are coordinated by the Agricultural Research Service, U.S. Department of Agriculture. The tests are divided into those in the Northern States, for strains in maturity groups 00 to IV, and those in the Southern States, for strains in maturity groups IV S to VIII. Group IV maturity strains are divided into a IV N test for the northern states and a IV S test for the southern states.

Public soybean breeders are encouraged to enter superior strains they develop into the Uniform Soybean Tests. Strains entered in these tests must have been evaluated by the breeder in a minimum of four environments of replicated yield tests. Strains developed by four or more backcrosses to a released cultivar may be entered without prior yield evaluations.

Strains are evaluated for one year in the Preliminary Tests (PT) which are two-replicate tests conducted at eight or more locations in several states. When the tests are completed, each public breeder is given an 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 and with three or four replications. Lines developed by four or more backcrosses to a released cultivar may be entered directly in the UT without prior evaluation in the PT.

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. Consideration for release of any strains in the UT may be requested by any institution or breeder participating in the Uniform Soybean Tests, however it is generally initiated by the institution that developed the strain.

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 become 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.

Where 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 Experiment Station's policy. This distribution is made only by the originating institution.

A release notice to soybean seed producers listing all institutions participating in the release of the cultivar is prepared by the originating institutions. This notice is circulated for signature by all participating institutions. Assistance in the preparation and circulation of this release notice may be obtained from Dr. P.A. Miller, USDA, ARS, National Program Leader, Fiber, Oil & Tobacco, Room 207, Bldg. 005, BARC-West, Beltsville, MD 20705 (Ph. 301-344-2725). The date for simultaneous publicity release on the new cultivar by participating states usually is August 1, but the date may be delayed until April 1 of the following year if additional UT data are being reviewed and a final decision to release has not been made.

If an additional year of UT data are 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 for crossing, if this distribution has not been made previously.

## UNIFORM TEST STRAINS RELEASED IN 1988

| Variety | Experimental Designation | Uniform Test Evaluations |
|---|---|---|
| Burlison | LN82-9648 | UT II 1987-1988, PT IIA 1986 |
| Conrad | A83-273009 | UT II 1985-1987, PT IIA 1984 |
| Flyer | HM8469 | UT IV 1987-1988, PT IVA 1985, 1988<br>UT III 1986-1988, PT III 1987-1988 |
| LN83-2356 | LN83-2356 | UT IV 1987, PT IVA 1986 |
| Spencer | C1653 | UT IV 1985-1988, PTIVA 1984 |

| Variety | Release Date | Releasing States | Foundation Seed Production |
|---|---|---|---|
| Burlison | August, 1988 | IA, IL, IN, NE | 1988 |
| Conrad | August 15, 1988 | IA, IL, NE, OH | 1988 |
| Flyer | September 1, 1988 | IL, IN, KS, MO, OH | 1988 |
| LN83-2356 | August, 1988 | IL, OH | * |
| Spencer | August 1, 1988 | IL, IN, KS, OH | 1987 |

* Seed released directly to seedsmen for brand labeling.

## UNIFORM TEST LOCATIONS - 1988

## 1988 DISEASE, SHATTERING, AND DESRIPTIVE DATA

| Location | | Tests Conducted By: | Tests | U. T. | P. T. |
|---|---|---|---|---|---|
| IA | Ames | J. Dunleavy | BTS | 00-IV | |
| | Ames | W. R. Fehr | Iron Chlorosis | 00-III | I-III |
| | Ames | W. R. Fehr | Emergence | 00-III | |
| | Ames | H. Tachibana | BSR | I-III | I-III |
| | Ames | H. Tachibana | $PR_4$ | I-III | I-III |
| IL | Carbondale | M. Schmidt | Shattering | IV | IV |
| | Eldorado | R. L. Bernard | Shattering, Mottling | III-IV | IV |
| | Pontiac | C. D. Nickell | Shattering | II | |
| | | | $PR_1$ | 00-IV | I-IV |
| IN | Lafayette | J. R. Wilcox | $PR_7$ | 00-IV | I-IV |
| | | T. S. Abney & T. L. Richards | PS, PSB, SMV | 00-II | I-II |
| KS | Manhattan | W. T. Schapaugh, JR. | Shattering | 00-IV | I-IV |
| MN | Lamberton | J. H. Orf | Iron Chlorosis | 00-IV | |
| OH | Castalia | A. F. Schmitthenner | PR Tolerance | II-IV | II-IV |
| SD | Wilmot | J. J. Bonnemann | Shattering | 0-I | |
| | Brookings | J. J. Bonnemann | Shattering | | I |
| TX | Lubbock | R. D. Brigham | Shattering | IV | |
| VA | Orange | D. E. Starner | PS, Mottling | IV | |

# UNIFORM TEST LOCATIONS - 1988

| Location | | Tests Conducted By: | Uniform Tests | | | | | | Preliminary Tests | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 00 | 0 | I | II | III | IV | I | II | III | IV |
| IA | Ames | W.R. Fehr | | | | X[1] | | | | X[1] | | |
| | Halbur | W.R. Fehr | | | | X | | | | | | |
| | Kanawha | W.R. Fehr | | | X | | | | X | | | |
| | Marshalltown | W.R. Fehr | | | | X | | | | X | | |
| | Nashua | W.R. Fehr | | | X | | | | | | | |
| | Packwood | W.R. Fehr | | | | | X | | | | X | |
| | Royal | W.R. Fehr | | | X[1] | | | | X[1] | | | |
| | Stuart | W.R. Fehr | | | | | X[1] | | | | X[1] | |
| | Tingley | W.R. Fehr | | | | | X | | | | | |
| IL | Belleville | M. Schmidt | | | | | | X | | | | |
| | Carbondale | M. Schmidt | | | | | | X | | | | X |
| | Dekalb | C.D. Nickell | | | | X | | | | | | |
| | Eldorado | R.L. Bernard | | | | | X | X | | | | X[1] |
| | Pontiac | C.D. Nickell | | | | X | | | | | | |
| | Urbana | C.D. Nickell | | | | X[1] | X[1] | | | X[1] | X[1] | |
| IN | Bluffton | J.R. Wilcox | | | | X | X | | | | | |
| | Lafayette | J.R. Wilcox | | | X | X[1] | X[1] | X | | X[1] | X[1] | |
| | Vincennes | J.R. Wilcox | | | | | X | X[1] | | | | X |
| KS | Manhattan | W.T. Schapaugh | | | | | X[1] | X[1] | | | X[1] | X[1] |
| | Topeka | W.T. Schapaugh | | | | | X | | | | | |
| | Powhattan | W.T. Schapaugh | | | | | X | X | | | | |
| KY | Lexington | T. Pfeiffer | | | | | X | X[1] | | | | X[1] |
| MAN | Brandon | H. Voldeng | X | | | | | | | | | |
| MD | Queenstown | W.J. Kenworthy & P.B. Creegan | | | | | X | X[1] | | | | X[1] |
| MI | Bad Axe | T.G. Isleib | | X | | | | | | | | |
| | Britton | T.G. Isleib | | | X | X | | | | X | | |
| | Saginaw | T.G. Isleib | | | X | X | | | X | | | |
| MN | Crookston | J.H. Orf | X[1] | | | | | | | | | |
| | Lamberton | J.H. Orf | | | X[1] | X | | | X[1] | | | |
| | Morris | J.H. Orf | X[1] | X | | | | | | | | |
| | Rosemount | J.H. Orf | | X[1] | | | | | | | | |
| | Waseca | J.H. Orf | | | X | X | | | X[1] | | | |
| MO | Columbia | H. Minor | | | | | X | X | | | | |
| | Portageville(Loam) | S.C. Anand | | | | | | X | | | | |
| | Portageville(Clay) | S.C. Anand | | | | | | X | | | | |

## UNIFORM TEST LOCATIONS - 1988

| Location | | Tests Conducted By: | Uniform Tests | | | | | | Preliminary Tests | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 00 | 0 | I | II | III | IV | I | II | III | IV |
| NE | Lincoln | G.L. Graef | | | | | | X | | | | |
| | Mead | G.L. Graef | | | X | $X^1$ | X | | | $X^1$ | X | |
| NJ | Adelphia | J.R. Justin | | | | X | X | X | | X | | |
| ND | Casselton | T. Helms | $X^1$ | $X^1$ | | | | | | | | |
| OH | Hoytville | B.A. McBlain | | | | $X^1$ | $X^1$ | | | $X^1$ | $X^1$ | |
| | Ripley | S. St. Martin | | | | | X | $X^1$ | | | | $X^1$ |
| | S. Charleston | R.L. Cooper | | | | | X | X | | | X | X |
| | Wooster | B.A. McBlain | | | | X | X | | | | | |
| ONT | Elora | P. Gostovic | $X^1$ | | | | | | | | | |
| | Inwood | G.R. Ablett | | | X | | | | | | | |
| | London | P. Gostovic | | | $X^1$ | | | | | | | |
| | Malden | R.I. Buzzell | | | | X | X | | | | | |
| | Ottawa | H.D. Voldeng | X | X | | | | | | | | |
| | Ridgetown | G.R. Ablett | | | | X | | | | X | | |
| | Smithfield | H.D. Voldeng | | X | | | | | | | | |
| | Woodstock | P. Gostovic | | $X^1$ | | | | | | | | |
| PA | Landisville | J.O. Yocum | | | | | X | X | | | | |
| | State College | J.O. Yocum | | | X | X | | | | | | |
| TX | Lubbock | R.D. Brigham | | | | | | X | | | | |
| SD | Brookings | J.J. Bonnemann | | | $X^1$ | X | | | $X^1$ | | | |
| | Centerville | J.J. Bonnemann | | | | X | | | | X | | |
| | Elk Point | J.J. Bonnemann | | | | | X | | | | | |
| | Wilmot | J.J. Bonnemann | | $X^1$ | X | | | | | | | |
| WI | Arlington | E.T. Gritton | | | $X^1$ | X | | | $X^1$ | X | | |
| | Ashland | E.T. Gritton | $X^1$ | | | | | | | | | |
| | Spooner | E.T. Gritton | | $X^1$ | | | | | | | | |
| VA | Orange | G.R. Buss | | | | | | X | | | | |
| | | D.E. Starner | | | | | | | | | | |
| X Location with Agronomic Data | | | 7 | 9 | 15 | 22 | 23 | 19 | 7 | 11 | 8 | 9 |
| $X^1$ Location With Seed Composition Data | | | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |

## IDENTIFICATION OF PARENT STRAINS, 1988

| Strain | Parentage |
|---|---|
| A1 | Anoka X Mack |
| A2 | M63-17 X C1453 |
| A8 | A75-332035 X Century |
| A72-507 | Amsoy X Wayne |
| A72-512 | Amsoy X Wayne |
| A73-19084 | IVR Ex5003 X Wells |
| A73-21030 | L65-1342 X IVR Ex4311 |
| A73D16 | Hark X Wayne |
| A74-102011 | M62-263 X IVR Ex4426 |
| A74-204034 | M62-263 X Amsoy 71 |
| A75-105021 | Corsoy (2) X L65-1342 or Anoka X Mack |
| A75-204018 | IVR Ex4731 X Wirth |
| A75-305022 | Wye X (Amsoy X Wayne) |
| A75-332035 | L15 X AP68-1016 |
| A75D11 | Amsoy X (Harosoy Dt2) L61-344 |
| A76-202015 | AP6 |
| A76-304020 | (Beeson X AP68-1016) X (L15 X Calland) |
| A77-116013 | [(AP68-1216 X AP68-1016) X (Beeson X AP68-1119)] X [(Calland X AP68-1324) X (Steele X AP68-1216)] |
| A77-211021 | Beeson X A72-507 |
| A77-314013 | A73-21030 X Williams |
| A78-121014 | Pride B216 X Hodgson |
| A78-123018 | Pride B216 X Hodgson |
| A78-227015 | Pride B216 X AX901-40-2 |
| A78-236003 | Pride B216 X Cumberland |
| A79-135010 | Pride B216 X Cumberland |
| A79-136012 | Pride B216 X Land O'Lakes 4102 |
| A79-138024 | A74-102011 X C1523 |
| A79-232026 | AP6TW(2YTC)(F4)C1 |
| A79-236002 | Pride B216 X Cumberland |
| A79-334010 | Pride B216 X Land O Lakes 4102 |
| A80-144024 | Weber X L69U40-16-4 |
| A80-145015 | (Corsoy X Wayne) X Pioneer 118-11 |
| A80-147003 | NK S1492 X Pella |
| A80-147005 | NK S1492 X A75-204018 |
| A80-244003 | Northrup King S1492 X Pella |
| A80-244031 | (Corsoy X Wayne) X L69U40-16-4 |
| A80-244035 | (Corsoy X Wayne) X Pella |
| A80-244036 | A74-204034 X Cumberland |
| A80-344003 | A75-332035 X Century |
| A80-346029 | A75-204018 X BSR 301 |
| A81-151026 | A75-204018 X Century |
| A81-157007 | Pride B216 (2) X A2 |
| A81-157024 | Pride B216 (2) X A2 |
| A81-257010 | A77-116013 X Asgrow A2656 |
| A81-356022 | Century X A76-304020 |
| A82-106088 | A78-123018 X AP9-81-163013 |
| AP6 | 40 lines intermated (Crop Sci.15:739, 1975) |
| AP9-81-163013 | I5003 X Dunn |
| AP68-1016 | Clark (5) X PI 84.946-2 |
| AP68-1022 | Clark (5) X PI 84.946-2 |
| AP68-1119 | Clark (4) X PI 84.946-2 |
| AP68-1216 | Clark (4) X PT 84.946-2 |
| AP68-1324 | Clark 63 X PI 84.946-2 |

## IDENTIFICATION OF PARENT STRAINS, 1988

| Strain | Parentage |
|---|---|
| Asgrow A1564 | Hark X C1453 |
| Asgrow A1937 | Hodgson 78 X Wayne |
| Asgrow A2656 | M60-406 X W35-184 |
| Asgrow A3127 | Williams X Essex |
| Asgrow A3659 | Williams X Essex |
| Asgrow A4268 | Williams X Essex |
| AX901-40-2 | Beeson X AP68-1022 |
| BD22115 | (Amsoy X Portage)F1 X (Holmberg) 840-7-3 |
| C1079 | Lincoln X Ogden |
| C1253 | Blackhawk X Harosoy |
| C1266R | Harosoy X C1079 |
| C1430 | C1253 X Kent |
| C1432 | C1253 X Kent |
| C1453 | C1266R X C1253 |
| C1514 | C1432 X C1430 |
| C1523 | Beeson X L63-1397 |
| C1640 | Century M2 fan (low 18:3) |
| Coker 237 | Hutton X N63-858 |
| D49-2491 | S100 X CNS; Lee sib |
| D49-2573 | Roanoke X N45-745 (Ogden X CNS) |
| D61-2624 | D49-2491 (4) X PI 174.862 |
| D61-3505 | D49-2491 (2) X PI 174.862 |
| D61-5141 | Dorman (5) X PI 181.537 |
| D63-6100 | Hill (4) X PI 171.442 |
| D66-7398 | D61-3505 X (PI 96.035 X D61-2624) |
| D66-12392 | D63-6100 X Dyer |
| FH31-3 | Fiskeby V X Harosoy 63 |
| Gold Tag 1250 | C1453 X C1431 |
| HC74-634RE | Williams X Ransom |
| HC74-3400 | Williams X Ransom |
| HC76-4030 | L72U-2567 X Essex |
| HC77-878 | Woodworth X V68-1034 |
| HC78-350 | L72U-2567 X Essex |
| HC78-353 | L72U-2567 X Essex |
| HC78-676 | L70T-543G X L74D-619 |
| HW8028 | A75-105021 X Century |
| HW8039 | Weber X Pella |
| HW8234 | (Pella X Cumberland) X K9 |
| HW79015 | A72-512 X Oakland |
| HW79022 | Woodworth X L60-347-1-60-2B (OX720-26) |
| HW79116 | Cumberland X Pella |
| HW79149 | [A72-507 (6) X A1] X [A72-507 (5) X PI 82.263-2] |
| IVR 1120 | Provar X (Amsoy X PI 191.110-1) |
| IVR Ex1235 | Blend (75% IVR 1120 : 25% Steele) |
| IVR Ex4311 | Unknown |
| IVR Ex4426 | Amsoy X Wayne |
| IVR Ex4731 | Amsoy X Wayne |
| IVR Ex5003 | Provar X (Amsoy X PI 191.110-1) |
| Ix93 | Unknown |
| J74-5 | Forrest X (D68-18 X PI 88.788) |
| JA53-7-6 | Line from Chinese comm. var. PI 358.323I |
| Jacques 88 | Corsoy X Hodgson |
| Jacques J103 | Clay X Williams |
| K9 | Tracy X Williams |

## IDENTIFICATION OF PARENT STRAINS, 1988

| Strain | Parentage |
|---|---|
| K74-104-76-205 | Tracy X Williams |
| K74-113-76-486 | Tracy X Pomona |
| K1062 | Tracy X Williams |
| L11 | [Clark (6) X T201] X [Clark (6) X T145]; I r isoline |
| L15 | Wayne (6) X Clark 63; Rps1 isoline |
| L57-0034 | Clark X Adams |
| L60-347-1-60-2B | Harosoy X Higan |
| L61-344 | Harosoy (6) X T117; Dt2 isoline |
| L62-361 | Harosoy (6) X T117; Dt2 isoline |
| L62-535 | Harosoy (6) X T145; dt1 isoline |
| L62-973 | Harosoy (6) X PI 86.024 (dt1) |
| L62-1926 | Clark (6) X PI 86.024; e2 isoline |
| L63-1397 | Harosoy (6) X PI 80.837; Dt2 isoline |
| L65-1342 | Wayne (2) X L62-1926 (Clark-e2) |
| L66-531 | [Clark (6) X PI 86.024] X [Clark (6) X T175]; dt1, E1, t, e2 isoline |
| L66-1322 | (Sel. from Hawkeye X Lee) X (Sel. from Hawkeye X Lee) |
| L66L-140 | Wayne X L75-0034 |
| L66L-154 | Wayne X L57-0034 |
| L68-0376 | Clark (2) X PI 84.946-2; BSR resistant |
| L68-4106 | [L15 (5) X L11] X [Wayne (10) X Kanrich]; r, Rps1, Rpm isoline |
| L69L-3 | L66-531 X L62-535 |
| L69U40-16-4 | Calland X Amsoy |
| L70-2283 | Custer X Chippewa |
| L70T-543G | L15 X Amsoy 71 |
| L71-3628 | L66-1322 X L62-535 |
| L72U-2567 | Williams X Ransom |
| L73-4124 | D66-12392 X L69L-3 |
| L73-4673 | Corsoy X L66L-154 |
| L73-6626 | R62-659 X L66-531 |
| L73U-632 | Miller 67 X L66L-140 |
| L73U-635 | Miller 67 X L66L-140 |
| L74D-619 | Williams X Ransom |
| L74D-634 | Williams X Ransom |
| L75-0034 | Clark X Adams |
| L75-3632 | Corsoy (6) X Lee 68; Rps1-c isoline |
| L75-8020 | Williams X L70-2283 |
| L77-443 | Union X L75-8020 |
| L77-994 | Williams (2) X PI 88.788 |
| L78-4094 | Beeson X L68-0376 |
| L78-4245 | L68-4106 X L68-0376 |
| L78-8694 | L71-3628 X E1f |
| L78L-449 | L73-4124 X Essex |
| L78L-688 | L73-6626 X Essex |
| Land O Lakes 4102 | Land O Lakes Max |
| Land O Lakes Max | [Wayne X (Clark X Adams)] X Cutler |
| LN-1060 | Williams X Tracy |
| LN80-7532 | Century X A76-304020 |
| LN80-8309 | A76-304020 X Land O'Lakes Max |
| LN80-9447 | Weber X A76-202015 |
| LN80-9452 | Weber X A76-202015 |
| LN80-9479 | Weber X A76-202015 |
| LN80-10398 | Century X Land O'Lakes Max |

## IDENTIFICATION OF PARENT STRAINS, 1988

| Strain | Parentage |
|---|---|
| LNX8107 | (A78-227015 X PI 92.718-2)F1 |
| LNX8132 | (Hack X A78-121014)F1 |
| LNX8138 | (Hack X PI 92.718-2)F1 |
| LNX8141 | (Hack X Cumberland)F1 |
| LNX8179 | (NK S1492 X PI 92.718-2)F1 |
| LS78-W245 | Franklin X J74-5 |
| M10 | Lincoln (2) X Richland |
| M53-117 | M10 X PI 180.501 |
| M54-12 | Renville X Capital |
| M54-110 | Harosoy X Norchief |
| M54-139 | Renville X Capital |
| M54-240 | [Lincoln (2) X Richland] X Korean |
| M59-120 | M54-240 X M54-139 |
| M60-406 | Blackhawk X Harosoy |
| M61-224 | Merit X Harosoy |
| M62-93 | Merit X M54-110 |
| M62-263 | Grant X M319W |
| M62-345 | M319W X Harosoy |
| M63-17 | M405 X M406 |
| M63-217Y | Corsoy X M53-117; Y hilum sib of Hodgson |
| M64-3 | Traverse X PI 196.163 |
| M65-69 | M54-12 X Corsoy |
| M65-442 | Anoka X Amsoy |
| M67-45 | Clay X M54-110 |
| M67-141 | Corsoy X Wayne |
| M68-2 | Wilkin X M59-120 |
| M68-49 | Evans X M59-120 |
| M68-49-26 | Evans X M59-120 |
| M68-96 | M59-120 X Amsoy 71 |
| M68-256 | Evans X Steele |
| M68-303 | M60-406 X Beeson |
| M69-197 | Evans X Lee |
| M69-288 | Merit X D66-7398 |
| M70-127 | Evans X M63-217Y |
| M70-153 | Steele X Hodgson |
| M70-260 | M62-93 X M63-217Y |
| M70-271 | Merit X M64-3 |
| M70-294 | JA53-7-6 (PI 358.323) X M63-217Y |
| M71-38 | Wilkin X M62-263 |
| M71-52 | Evans X M62-345 |
| M71-148 | Clay X Evans |
| M72-3 | Evans X Hodgson |
| M73-37 | Evans X XK505 |
| M73-62 | M61-224 X Nagyszemi Feher |
| M73-105 | M68-49 X Clay |
| M73-129 | M68-49 X Hodgson |
| M74-23 | M68-2 X Hodgson |
| M74-55 | M68-99 X Hodgson |
| M74-155 | Evans X M65-442 |
| M74-270 | M65-69 X M68-99 |
| M74-394 | Hodgson X Wells |
| M74-403 | Hodgson X M67-45 |
| M74-417 | NAPB IVR1235 X 554-8 |
| M74-438 | Evans X M68-303 |
| M75-2 | Hodgson X [M67-141 X (Chippewa X Higan)] |

## IDENTIFICATION OF PARENT STRAINS, 1988

| Strain | Parentage |
|---|---|
| M75-15 | Peterson 85 (2) X Evans |
| M75-243 | Evans X A73-19084 |
| M75-274 | Evans X L70T-543 |
| M75-275 | Evans X L70T-543 |
| M75-299 | M69-288 X 554-5 |
| M76-100 | M65-442 X Hodgson 78 |
| M76-142 | M70-271 X Corsoy |
| M76-148 | M70-271 X Hodgson 78 |
| M76-151 | M70-271 X Hodgson 78 |
| M76-260 | Harlon X M69-197 |
| M319W | Lincoln X Hawkeye |
| M405 | Capital X Renville |
| M406 | Harosoy X Norchief |
| Miller 67 | Unknown |
| N45-1497 | Ralsoy X Ogden |
| N70-1549 | Dare X D65-6765 |
| N72-3213 | D67-135 X N64-2451 |
| N77-179 | N70-1549 X N72-3213 |
| Nagyszemu Feher | Introduction from Hungary; PI 297.518 |
| Northrup King S1492 | Corsoy X Wayne |
| Peterson 85 | Provar X (Amsoy X PI 248.404; Novosudska Bela) |
| Pioneer 118-11 | Corsoy X (Hawkeye X Chippewa) |
| Pioneer 1981 | Beeson X Williams |
| PMGTC2 | Unknown |
| PMGTC3S1 | Unknown |
| Pride B152 | S1346 (6) X Mack |
| Pride B216 | Corsoy X Wayne |
| Prosoy PS104 | Unknown |
| R54-168 | D49-2573 X N45-1497 |
| R62-659 | (R54-168 X Hill) X (Lee X Dortchsoy 110) |
| S76-2203 | [Hill (2) X PI 171.450] X Essex |
| SRF 100 | Chippewa 64 (8) X D61-5141 |
| SRF 150 | Hark (7) X [Wayne (3) X D61-5141)] |
| T117 | AK114 X PI 65.394 |
| T145 | Unknown |
| T175 | Unknown |
| T201 | L46-1743-I X L46-1741-I |
| T207 | Pure line of PI 80.837 |
| TS76-989 | Forrest X V71-480 |
| U57141 | Calland X Cutler |
| U59245 | Williams X Amsoy 71 |
| U76168 | Williams X PI 89.075 |
| V68-1034 | York X PI 71.506 |
| V71-480 | M. Schmidt |
| W0S-3386 | Lincoln X Flambeau |
| W3S-184 | W05-3386 X Clark |
| XK505 | Off-type found in Calland |
| 554-5 | Hodgson (4) X Merit |
| 554-8 | Hodgson (4) X Merit |
| 840-7-3 | from Sven A. Holmberg, Sweden |

## UNIFORM TEST OO, 1988

| Strain | Parentage | Previous* Testing | Generation Composited | Unique Traits |
|---|---|---|---|---|
| Clay (0) | Renville x Capital | 11 | F5 | |
| Maple Presto | (Amsoy x Portage) x 840-7-3 | 1983 | F5 | |
| Maple Ridge | Fiskeby III x Evans | 8 | F5 | |
| McCall (00) | (Acme x Chippewa) x Hark | 15 | F5 | |
| M84-93 | M71-148 x Ozzie | - | F4 | Rps1 |
| M84-456 | Simpson x M71-148 | - | F5 | Rps1 |
| ND867 | Wilkin x L62-361 | 1 | F6 | |
| ND868 | Wilkin x L62-361 | 1 | F6 | |
| ND941 | Selection from Wilkin | - | F6 | |
| ND2337 | Wilkin x L62-361 | - | F6 | |
| ND2338 | Wilkin x L62-361 | - | F6 | |
| ND2353 | Wilkin x L62-361 | - | F6 | |
| OT84-12[1] | BD22115 x Premier | 2 | F5 | |
| OT85-5 | Evans (4)e3 x 840-7-3 | 1 | F4 | |
| OT87-7 | (Maple Presto x Williams) x Weber | - | F5 | |
| OT87-8 | (Maple Presto x Williams) x Weber | - | F5 | |
| OT87-12 | (McCall x Maple Amber) x Maple Amber | - | F5 | Photop. insens. |

* Number of years in test or year of previous testing.
[1] Maple ~~Alan~~ Glen

## DESCRIPTIVE AND DISEASE DATA

| Strain | Descriptive Code | Chlorosis Score Ames | Chlorosis Score Lamberton | Emerg. Score Ames | Shatter Score Manhattan | BTS Ames a Score | PR Urbana-Laf Race 1 | PR Urbana-Laf Race 7 | PS PSB SMV Lafayette a rt | PS PSB SMV Lafayette n % | PS PSB SMV Lafayette a Score |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Clay (0) | PGBDYY | 2.9 | 2.0 | 2.0 | 1 | 4 | S | S | 2M | 22 | 2M |
| Maple Presto | PTBDYG | 4.0 | 4.0 | 4.0 | 2 | 3 | R | S | 1 | 75 | 3E |
| Maple Ridge | PTBSYY | 2.0 | 2.0 | 1.0 | 1 | 3 | S | S | 1 | 48 | 1 |
| McCall (00) | PGBDYY | 2.8 | 2.5 | 1.0 | 1 | 4 | S | S | 2E | 40 | 2M |
| M84-93 | PGBSYY | 1.8 | 2.5 | 5.0 | 2 | 3 | R | S | 2E | 20 | 3E |
| M84-456 | PGBDYBF | 2.5 | 2.8 | 1.0 | 1 | 3 | R | S | 2E | 12 | 2M |
| ND867 | PGBYYIb | 2.4 | 3.2 | 1.0 | 3 | 3 | R | S | 1 | 62 | 4E |
| ND868 | PGBYYIb | 2.2 | 2.5 | 1.0 | 2 | 3 | S | S | 2M | 36 | 4E |
| ND941 | WGBDYY | 2.2 | 2.2 | 1.0 | 3 | 2 | R | S | 1 | 28 | 2M |
| ND2337 | WGBSYY | 3.0 | 2.2 | 1.0 | 1 | 3 | S | S | 1 | 20 | 3E |
| ND2338 | PGBDYY | 1.6 | 2.2 | 1.0 | 2 | 3 | R | S | 1 | 62 | 4E |
| ND2353 | PTBDYY | 3.8 | 3.5 | 3.0 | 2 | 2 | R | S | 1 | 56 | 2E |
| OT84-12 | PTBSYY | 3.6 | 4.2 | 1.0 | 1 | 3 | H | S | 2E | 62 | 1 |
| OT85-5 | WGBSYY | 2.4 | 3.5 | 1.0 | 1 | 3 | R | S | | 66 | 2M |
| OT87-7 | WTBSYBr | 2.5 | 2.5 | 2.0 | 1 | 3 | S | S | 1 | 76 | 2E |
| OT87-8 | WTBSYBr | 3.0 | 3.0 | 1.0 | 1 | 2 | S | S | 1 | 90 | 2M |
| OT87-12 | PTBDYY | 4.6 | 4.0 | 1.0 | 2 | 3 | R | S | 1 | 62 | 3E |

UNIFORM TEST 00, 1988

REGIONAL SUMMARY

| | Yield | Rank | Maturity | Lodging | Plant Height | Seed Quality | Seed Size | Composition Protein | Composition Oil |
|---|---|---|---|---|---|---|---|---|---|
| No. of Tests | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 5 | 5 |
| Strain | bu/a | No. | Date | Score | In | Score | g/100 | % | % |
| Clay (0) | 24.8 | 1 | 10.2 | 1.5 | 22 | 2.8 | 15.8 | 40.4 | 21.5 |
| Maple Presto | 16.8 | 17 | -16.0 | 1.3 | 18 | 3.6 | 14.1 | 39.6 | 21.2 |
| Maple Ridge | 20.3 | 14 | -7.8 | 1.3 | 18 | 3.3 | 14.1 | 40.7 | 19.9 |
| McCall (00) | 21.9 | 8 | 08/31* | 1.4 | 21 | 2.9 | 14.6 | 40.0 | 20.6 |
| M84-93 | 23.1 | 4 | 9.0 | 1.1 | 21 | 2.7 | 14.5 | 40.0 | 21.1 |
| M84-456 | 23.0 | 5 | 9.3 | 1.1 | 21 | 2.4 | 13.5 | 41.4 | 21.2 |
| ND867 | 21.7 | 9 | -4.0 | 1.3 | 20 | 3.3 | 16.4 | 39.9 | 21.3 |
| ND868 | 22.9 | 6 | -1.7 | 1.3 | 21 | 3.3 | 16.8 | 39.9 | 21.7 |
| ND941 | 21.0 | 13 | 5.3 | 1.2 | 19 | 2.9 | 13.9 | 40.1 | 20.8 |
| ND2337 | 21.1 | 11 | -8.5 | 1.4 | 17 | 3.1 | 12.5 | 40.2 | 20.7 |
| ND2338 | 21.4 | 10 | -3.3 | 1.3 | 20 | 3.3 | 15.7 | 40.0 | 21.0 |
| ND2353 | 18.0 | 16 | -13.2 | 1.3 | 19 | 3.8 | 14.2 | 40.2 | 20.9 |
| OT84-12 | 23.7 | 3 | 7.3 | 1.3 | 21 | 2.5 | 17.2 | 41.3 | 21.1 |
| OT85-5 | 21.1 | 11 | -2.0 | 1.4 | 19 | 3.2 | 15.3 | 40.6 | 21.5 |
| OT87-7 | 24.3 | 2 | -2.0 | 1.2 | 20 | 3.0 | 13.5 | 38.4 | 22.8 |
| OT87-8 | 22.6 | 7 | -1.0 | 1.3 | 21 | 3.1 | 13.6 | 38.5 | 22.9 |
| OT87-12 | 19.2 | 15 | -11.8 | 1.5 | 17 | 3.3 | 15.5 | 39.2 | 22.0 |

* 105.0 Days after planting

## UNIFORM TEST 00, 1988

### 1987-1988, 2-YEAR MEAN

| Strain<br>No. of Tests | Yield<br>15<br>bu/a | Rank<br>15<br>No. | Maturity<br>14<br>Date | Lodging<br>15<br>Score | Plant Height<br>15<br>In | Seed Quality<br>15<br>Score | Seed Size<br>15<br>g/100 | Composition<br>Protein<br>10<br>% | <br>Oil<br>10<br>% |
|---|---|---|---|---|---|---|---|---|---|
| Clay (0) | 29.7 | 3 | 8.2 | 1.8 | 27 | 2.4 | 15.7 | 40.2 | 20.7 |
| Maple Ridge | 27.4 | 6 | -6.3 | 1.3 | 24 | 2.5 | 14.6 | 40.6 | 19.7 |
| McCall (00) | 28.7 | 4 | 09/4.6* | 1.5 | 27 | 2.3 | 14.5 | 39.6 | 20.1 |
| ND 867 | 27.1 | 7 | -1.5 | 1.4 | 27 | 2.7 | 17.3 | 39.4 | 20.9 |
| ND 868 | 28.3 | 5 | -0.7 | 1.4 | 28 | 2.6 | 17.4 | 39.4 | 21.3 |
| OT 84-12 | 32.6 | 1 | 6.1 | 1.4 | 27 | 2.3 | 17.5 | 40.4 | 20.9 |
| OT85-5 | 29.9 | 2 | -1.2 | 1.4 | 26 | 2.6 | 15.9 | 39.7 | 21.2 |

* 106.5 Days after planting

### 1986-1988, 3-YEAR MEAN

| Strain<br>No. of Tests | 23 | 23 | 21 | 23 | 23 | 22 | 23 | 15 | 15 |
|---|---|---|---|---|---|---|---|---|---|
| Clay (0) | 32.0 | 3 | 7.3 | 1.8 | 27 | 2.1 | 15.5 | 40.5 | 20.1 |
| Maple Ridge | 31.0 | 5 | -4.5 | 1.3 | 25 | 2.2 | 14.8 | 40.6 | 19.4 |
| McCall (00) | 32.1 | 2 | 09/8.4* | 1.7 | 28 | 2.2 | 14.3 | 39.7 | 19.6 |
| ND 867 | 30.7 | 6 | -1.6 | 1.5 | 29 | 2.4 | 17.5 | 39.8 | 20.5 |
| ND 868 | 31.2 | 4 | -0.9 | 1.5 | 28 | 2.4 | 17.5 | 39.8 | 20.7 |
| OT 84-12 | 35.4 | 1 | 6.0 | 1.6 | 28 | 2.2 | 17.5 | 40.8 | 27.0 |

* 109.7 Days after planting

## UNIFORM TEST 00, 1988

### YIELD (bu/a)

| Strain | Mean 7 Tests | Brandon Man. | Crookston MN | Morris MN | Casselton ND | Elora Ont. | Ottawa Ont. | Ashland WI |
|---|---|---|---|---|---|---|---|---|
| Clay (0) | 24.8 | 8.7 | 18.0 | 25.4 | 14.9 | 49.8 | 34.6 | 22.4 |
| Maple Presto | 16.8 | 12.3 | 11.2 | 11.6 | 11.6 | 31.9 | 30.8 | 8.5 |
| Maple Ridge | 20.3 | 12.5 | 13.5 | 16.2 | 12.0 | 38.0 | 37.6 | 12.0 |
| McCall (00) | 21.9 | 10.5 | 14.3 | 15.5 | 13.3 | 43.6 | 36.6 | 19.5 |
| M84-93 | 23.1 | 8.2 | 17.8 | 18.2 | 12.8 | 43.8 | 43.6 | 17.1 |
| M84-456 | 23.0 | 6.9 | 16.3 | 15.8 | 17.3 | 44.5 | 41.4 | 19.1 |
| ND867 | 21.7 | 10.9 | 16.6 | 15.8 | 13.0 | 46.6 | 35.0 | 13.7 |
| ND868 | 22.9 | 12.2 | 17.9 | 15.3 | 16.3 | 43.6 | 36.9 | 17.8 |
| ND941 | 21.0 | 11.5 | 16.8 | 14.8 | 10.2 | 40.5 | 36.6 | 16.3 |
| ND2337 | 21.1 | 11.7 | 12.7 | 15.4 | 18.4 | 38.6 | 36.9 | 13.9 |
| ND2338 | 21.4 | 10.0 | 15.2 | 16.7 | 14.2 | 43.5 | 34.6 | 15.9 |
| ND2353 | 18.0 | 10.3 | 12.5 | 13.8 | 9.8 | 39.1 | 31.3 | 8.9 |
| OT84-12 | 23.7 | 7.8 | 18.6 | 19.6 | 15.2 | 49.2 | 40.6 | 15.2 |
| OT85-5 | 21.1 | 11.7 | 15.5 | 13.6 | 14.6 | 46.3 | 31.7 | 14.1 |
| OT87-7 | 24.3 | 13.0 | 17.0 | 19.6 | 16.2 | 42.0 | 44.6 | 18.0 |
| OT87-8 | 22.6 | 8.6 | 18.3 | 17.9 | 13.2 | 44.5 | 39.2 | 16.4 |
| OT87-12 | 19.2 | 11.6 | 13.8 | 12.2 | 17.2 | 33.7 | 32.3 | 13.4 |
| C.V. (%) | | 17.1 | 21.7 | 16.4 | 23.7 | 9.9 | 8.6 | 29.1 |
| L.S.D. (5%) | | 3.6 | 4.8 | 4.5 | 5.4 | 5.8 | 4.5 | 7.7 |
| Row Sp. (in.) | | 9 | 12 | 10 | 30 | 15 | 16 | 24 |
| Rows/Plot | | 4 | 8 | 10 | 4 | 4 | 4 | 4 |
| Reps | | 2 | 4 | 3 | 3 | 4 | 4 | 3 |

## UNIFORM TEST 00, 1988

### YIELD RANK

| Strain | Yield Rank | Brandon Man. | Crookston MN | Morris MN | Castelton ND | Elora Ont. | Ottawa Ont. | Ashland WI |
|---|---|---|---|---|---|---|---|---|
| Clay (0) | 1 | 13 | 3 | 1 | 7 | 1 | 12 | 1 |
| Maple Presto | 17 | 3 | 17 | 17 | 15 | 17 | 17 | 17 |
| Maple Ridge | 14 | 2 | 14 | 7 | 14 | 15 | 6 | 15 |
| McCall (00) | 8 | 10 | 12 | 10 | 10 | 8 | 9 | 2 |
| M84-93 | 4 | 15 | 5 | 4 | 13 | 7 | 2 | 6 |
| M84-456 | 5 | 17 | 9 | 8 | 2 | 5 | 3 | 3 |
| ND867 | 9 | 9 | 8 | 8 | 12 | 3 | 11 | 13 |
| ND868 | 6 | 4 | 4 | 12 | 4 | 8 | 7 | 5 |
| ND941 | 13 | 8 | 7 | 13 | 16 | 12 | 9 | 8 |
| ND2337 | 11 | 5 | 15 | 11 | 1 | 14 | 7 | 12 |
| ND2338 | 10 | 12 | 11 | 6 | 9 | 10 | 12 | 9 |
| ND2353 | 16 | 11 | 16 | 14 | 17 | 13 | 16 | 16 |
| OT84-12 | 3 | 16 | 1 | 2 | 6 | 2 | 4 | 10 |
| OT85-5 | 11 | 5 | 10 | 15 | 8 | 4 | 15 | 11 |
| OT87-7 | 2 | 1 | 6 | 3 | 5 | 11 | 1 | 4 |
| OT87-8 | 7 | 14 | 2 | 5 | 11 | 6 | 5 | 7 |
| OT87-12 | 15 | 7 | 13 | 16 | 3 | 16 | 14 | 14 |

### MATURITY (date)

| Strain | Mean 6 Tests | | | | | | |
|---|---|---|---|---|---|---|---|
| Clay (0) | 10.2 | 23 | 4 | 9 | 16 | 5 | 4 |
| Maple Presto | -16.0 | -14 | -22 | -14 | -17 | -16 | -13 |
| Maple Ridge | -7.8 | -8 | -12 | -7 | -7 | -6 | -7 |
| McCall (00) | 08/31.2 | 09/06 | 08/24 | 08/17 | 08/18 | 09/09 | 09/20 |
| M84-93 | 9.0 | 23 | 4 | 7 | 11 | 4 | 5 |
| M84-456 | 9.3 | 22 | 5 | 7 | 13 | 4 | 5 |
| ND867 | -4.0 | -1 | -9 | -10 | -6 | 3 | -1 |
| ND868 | -1.7 | 0 | -8 | -2 | -2 | 3 | -1 |
| ND941 | 5.3 | 18 | 1 | 0 | 5 | 4 | 4 |
| ND2337 | -8.5 | 0 | -20 | -13 | -10 | -1 | -7 |
| ND2338 | -3.3 | 0 | -7 | -6 | -8 | 1 | 0 |
| ND2353 | -13.2 | -14 | -18 | -14 | -14 | -11 | -8 |
| OT84-12 | 7.3 | 12 | 4 | 10 | 11 | 2 | 5 |
| OT85-5 | -2.0 | 0 | -8 | -2 | -3 | 4 | -3 |
| OT87-7 | -2.0 | 0 | -2 | -1 | -4 | -2 | -3 |
| OT87-8 | -1.0 | 11 | -7 | -2 | -4 | -2 | -2 |
| OT87-12 | -11.8 | -6 | -21 | -9 | -9 | -15 | -11 |
| Date Planted | 05/18.2 | 05/20 | 05/10 | 05/11 | 05/13 | 05/28 | 05/27 |
| Days to Mature | 105 | 109 | 106 | 98 | 97 | 104 | 116 |

## UNIFORM TEST 00, 1988

### LODGING (score)

| Strain | Mean 7 Tests | Brandon Man. | Crookston MN | Morris MN | Casselton ND | Elora Ont. | Ottawa Ont. | Ashland WI |
|---|---|---|---|---|---|---|---|---|
| Clay (0) | 1.5 | 1.0 | 1.0 | 1.0 | 1.0 | 1.4 | 4.1 | 1.0 |
| Maple Presto | 1.3 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 2.9 | 1.0 |
| Maple Ridge | 1.3 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 2.8 | 1.0 |
| McCall (00) | 1.4 | 1.0 | 1.0 | 1.0 | 1.0 | 1.3 | 3.2 | 1.0 |
| M84-93 | 1.1 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.8 | 1.0 |
| M84-456 | 1.1 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.9 | 1.0 |
| ND867 | 1.3 | 1.0 | 1.0 | 1.0 | 1.0 | 1.4 | 2.5 | 1.0 |
| ND868 | 1.3 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 3.4 | 1.0 |
| ND941 | 1.2 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 2.1 | 1.0 |
| ND2337 | 1.4 | 1.5 | 1.0 | 1.0 | 1.0 | 1.0 | 3.6 | 1.0 |
| ND2338 | 1.3 | 1.0 | 1.0 | 1.0 | 1.0 | 1.1 | 2.8 | 1.0 |
| ND2353 | 1.3 | 1.0 | 1.0 | 1.0 | 1.0 | 1.1 | 3.0 | 1.0 |
| OT84-12 | 1.3 | 1.0 | 1.0 | 1.0 | 1.0 | 1.1 | 2.8 | 1.0 |
| OT85-5 | 1.4 | 1.0 | 1.0 | 1.0 | 1.0 | 1.1 | 3.5 | 1.0 |
| OT87-7 | 1.2 | 1.5 | 1.0 | 1.0 | 1.0 | 1.0 | 2.1 | 1.0 |
| OT87-8 | 1.3 | 1.5 | 1.0 | 1.0 | 1.0 | 1.3 | 2.6 | 1.0 |
| OT87-12 | 1.5 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 4.4 | 1.0 |

### PLANT HEIGHT (inches)

| Strain | Mean 7 Tests | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Clay (0) | 22 | 16 | 18 | 15 | 16 | 30 | 40 | 20 |
| Maple Presto | 18 | 11 | 17 | 12 | 12 | 20 | 38 | 16 |
| Maple Ridge | 18 | 12 | 15 | 14 | 13 | 21 | 36 | 17 |
| McCall (00) | 21 | 13 | 14 | 13 | 15 | 29 | 41 | 19 |
| M84-93 | 21 | 13 | 16 | 13 | 15 | 31 | 40 | 18 |
| M84-456 | 21 | 13 | 15 | 13 | 17 | 31 | 40 | 19 |
| ND867 | 20 | 14 | 18 | 11 | 12 | 28 | 37 | 19 |
| ND868 | 21 | 14 | 18 | 14 | 15 | 28 | 41 | 20 |
| ND941 | 19 | 15 | 14 | 12 | 12 | 28 | 36 | 17 |
| ND2337 | 17 | 11 | 15 | 12 | 12 | 22 | 32 | 16 |
| ND2338 | 20 | 15 | 15 | 13 | 14 | 25 | 38 | 18 |
| ND2353 | 19 | 13 | 17 | 12 | 11 | 28 | 37 | 17 |
| OT84-12 | 21 | 14 | 18 | 16 | 15 | 26 | 39 | 17 |
| OT85-5 | 19 | 15 | 16 | 12 | 14 | 26 | 35 | 18 |
| OT87-7 | 20 | 13 | 19 | 15 | 13 | 22 | 38 | 18 |
| OT87-8 | 21 | 11 | 21 | 16 | 15 | 25 | 43 | 18 |
| OT87-12 | 17 | 13 | 17 | 11 | 12 | 17 | 34 | 18 |

## UNIFORM TEST 00, 1988

### SEED QUALITY (score)

| Strain | Mean 7 Tests | Brandon Man. | Crookston MN | Morris MN | Casselton ND | Elora Ont. | Ottawa Ont. | Ashland WI |
|---|---|---|---|---|---|---|---|---|
| Clay (0) | 2.8 | 2.9 | 3.8 | 4.0 | 3.7 | 1.5 | 2.0 | 2.0 |
| Maple Presto | 3.6 | 3.0 | 4.0 | 4.7 | 5.0 | 2.0 | 2.0 | 4.7 |
| Maple Ridge | 3.3 | 3.0 | 4.5 | 4.3 | 5.0 | 1.5 | 1.5 | 3.0 |
| McCall (00) | 2.9 | 3.0 | 3.5 | 4.3 | 3.0 | 1.5 | 2.0 | 3.0 |
| M84-93 | 2.7 | 3.1 | 3.0 | 4.0 | 3.0 | 1.5 | 1.0 | 3.0 |
| M84-456 | 2.4 | 2.9 | 3.0 | 3.0 | 3.0 | 1.5 | 1.0 | 2.7 |
| ND867 | 3.3 | 3.0 | 4.5 | 4.7 | 5.0 | 1.5 | 1.3 | 3.3 |
| ND868 | 3.3 | 2.5 | 4.0 | 4.7 | 4.3 | 1.5 | 1.8 | 4.0 |
| ND941 | 2.9 | 2.5 | 2.8 | 4.3 | 3.7 | 1.5 | 1.5 | 3.7 |
| ND2337 | 3.1 | 3.1 | 3.8 | 3.7 | 5.0 | 1.5 | 2.0 | 2.7 |
| ND2338 | 3.3 | 3.0 | 4.0 | 4.3 | 5.0 | 1.5 | 2.0 | 3.0 |
| ND2353 | 3.8 | 3.5 | 4.8 | 4.3 | 5.0 | 2.5 | 2.0 | 4.3 |
| OT84-12 | 2.5 | 2.5 | 3.0 | 3.3 | 3.7 | 1.5 | 2.0 | 1.7 |
| OT85-5 | 3.2 | 3.0 | 4.0 | 4.3 | 4.7 | 1.5 | 1.7 | 3.3 |
| OT87-7 | 3.0 | 2.4 | 4.3 | 3.7 | 3.0 | 1.5 | 1.8 | 4.0 |
| OT87-8 | 3.1 | 2.5 | 4.0 | 4.0 | 3.0 | 1.5 | 2.0 | 4.7 |
| OT87-12 | 3.3 | 2.9 | 4.0 | 4.3 | 4.0 | 2.0 | 1.7 | 4.0 |

### SEED SIZE (g/100)

| Strain | Mean 7 Tests | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Clay (0) | 15.8 | 13.3 | 15.8 | 16.9 | 13.7 | 15.6 | 18.1 | 17.5 |
| Maple Presto | 14.1 | 11.5 | 11.3 | 14.0 | 10.8 | 15.9 | 17.3 | 18.0 |
| Maple Ridge | 14.1 | 11.3 | 11.2 | 12.7 | 9.9 | 16.1 | 17.6 | 20.0 |
| McCall (00) | 14.6 | 12.3 | 14.0 | 13.9 | 11.8 | 14.6 | 16.9 | 18.8 |
| M84-93 | 14.5 | 12.5 | 14.5 | 14.8 | 11.9 | 14.3 | 17.0 | 16.2 |
| M84-456 | 13.5 | 10.2 | 13.4 | 13.0 | 13.0 | 13.2 | 15.3 | 16.7 |
| ND867 | 16.4 | 14.7 | 14.3 | 14.3 | 13.0 | 19.4 | 20.8 | 18.4 |
| ND868 | 16.8 | 14.3 | 15.6 | 15.5 | 14.7 | 18.1 | 20.7 | 18.9 |
| ND941 | 13.9 | 13.1 | 13.8 | 13.3 | 11.7 | 13.9 | 16.6 | 15.2 |
| ND2337 | 12.5 | 11.3 | 10.5 | 11.1 | 11.2 | 12.4 | 15.4 | 15.8 |
| ND2338 | 15.7 | 15.1 | 15.0 | 14.8 | 13.5 | 17.9 | 14.9 | 18.6 |
| ND2353 | 14.2 | 10.9 | 12.0 | 13.5 | 11.9 | 15.7 | 18.3 | 17.2 |
| OT84-12 | 17.2 | 13.4 | 15.5 | 17.2 | 14.9 | 18.3 | 21.9 | 19.4 |
| OT85-5 | 15.3 | 13.0 | 13.0 | 15.4 | 11.4 | 15.8 | 19.3 | 19.1 |
| OT87-7 | 13.5 | 10.0 | 13.0 | 12.9 | 10.9 | 14.3 | 15.8 | 17.3 |
| OT87-8 | 13.6 | 10.8 | 13.5 | 12.7 | 10.8 | 14.3 | 15.7 | 17.2 |
| OT87-12 | 15.5 | 13.2 | 13.2 | 14.1 | 12.6 | 17.4 | 17.6 | 20.6 |

## UNIFORM TEST 00, 1988

### PROTEIN (%)

| Strain | Mean 5 Tests | Crookston MN | Morris MN | Casselton ND | Elora Ont. | Ashland WI |
|---|---|---|---|---|---|---|
| Clay (0) | 40.4 | 41.6 | 39.7 | 41.1 | 40.7 | 38.7 |
| Maple Presto | 39.6 | 38.0 | 38.7 | 39.3 | 38.8 | 43.4 |
| Maple Ridge | 40.7 | 40.8 | 40.0 | 38.9 | 40.0 | 43.7 |
| McCall (00) | 40.0 | 39.3 | 39.4 | 39.1 | 40.4 | 42.0 |
| M84-93 | 40.0 | 41.3 | 40.3 | 39.1 | 38.8 | 40.3 |
| M84-456 | 41.4 | 43.3 | 40.8 | 40.6 | 41.6 | 40.8 |
| ND867 | 39.9 | 40.1 | 38.1 | 39.7 | 40.0 | 41.7 |
| ND868 | 39.9 | 40.3 | 39.1 | 39.3 | 40.3 | 40.6 |
| ND941 | 40.1 | 41.9 | 39.7 | 38.9 | 40.6 | 39.4 |
| ND2337 | 40.2 | 41.3 | 39.5 | 38.6 | 39.6 | 41.8 |
| ND2338 | 40.0 | 41.6 | 38.9 | 39.4 | 39.0 | 40.9 |
| ND2353 | 40.2 | 38.3 | 39.4 | 39.6 | 39.6 | 44.1 |
| OT84-12 | 41.3 | 41.4 | 40.1 | 39.5 | 41.7 | 44.0 |
| OT85-5 | 40.6 | 41.1 | 40.0 | 40.3 | 39.4 | 42.0 |
| OT87-7 | 38.4 | 39.2 | 37.7 | 37.5 | 38.0 | 39.6 |
| OT87-8 | 38.5 | 38.7 | 37.4 | 36.9 | 38.5 | 40.8 |
| OT87-12 | 39.2 | 39.1 | 37.1 | 38.6 | 39.9 | 41.3 |

### OIL (%)

| Strain | Mean 5 Tests | | | | | |
|---|---|---|---|---|---|---|
| Clay (0) | 21.5 | 22.2 | 23.9 | 21.4 | 20.2 | 19.6 |
| Maple Presto | 21.2 | 22.5 | 22.6 | 21.8 | 21.9 | 17.0 |
| Maple Ridge | 19.9 | 19.6 | 21.3 | 20.2 | 21.0 | 17.2 |
| McCall (00) | 20.6 | 21.8 | 22.3 | 21.5 | 20.0 | 17.5 |
| M84-93 | 21.1 | 22.1 | 22.1 | 22.5 | 20.7 | 18.3 |
| M84-456 | 21.2 | 21.4 | 23.9 | 22.0 | 19.6 | 19.1 |
| ND867 | 21.3 | 22.1 | 23.7 | 21.9 | 20.4 | 18.4 |
| ND868 | 21.7 | 22.5 | 23.1 | 22.6 | 20.7 | 19.4 |
| ND941 | 20.8 | 21.2 | 22.5 | 22.4 | 19.2 | 18.7 |
| ND2337 | 20.7 | 20.6 | 22.4 | 21.9 | 20.4 | 18.2 |
| ND2338 | 21.0 | 21.3 | 22.6 | 21.8 | 21.2 | 18.3 |
| ND2353 | 20.9 | 22.1 | 22.7 | 21.3 | 21.2 | 17.4 |
| OT84-12 | 21.1 | 22.0 | 23.0 | 22.3 | 20.4 | 17.9 |
| OT85-5 | 21.5 | 21.9 | 23.6 | 22.8 | 20.9 | 18.1 |
| OT87-7 | 22.8 | 22.9 | 24.7 | 23.9 | 22.0 | 20.6 |
| OT87-8 | 22.9 | 23.6 | 24.2 | 24.4 | 21.9 | 20.4 |
| OT87-12 | 22.0 | 21.9 | 23.5 | 22.3 | 23.1 | 19.3 |

**UNIFORM TEST O, 1988**

| Strain | Parentage | Previous* Testing | Generation Composited | Unique Traits |
|---|---|---|---|---|
| Dawson (0) | Evans x M63-217Y | 7 | F5 | |
| Glenwood | Evans x Peterson 85 | 3 | F5 | |
| McCall (00) | (Acme x Chippewa) x Hark | 8 | F5 | |
| Sibley (I) | M68-256 x Hodgson | 1 | F5 | |
| M81-18 | Evans x M65-442 | 3 | F5 | |
| M81-27 | M68-49-26 x M70-294 | 3 | F5 | |
| M83-715 | M73-62 x Simpson | 1 | F4 | |
| M83-727 | M73-62 x Simpson | 1 | F4 | |
| M83-744 | M73-129 x M73-37 | 1 | F5 | |
| M83-766 | Evans x M74-394 | 1 | F5 | |
| M83-770 | M70-260 x Asgrow A1564 | 1 | F5 | |
| M84-74 | M71-148 x Ozzie | - | F4 | Rps1 |
| M84-140 | M73-62 x M76-260 | - | F4 | Rps1 |
| M84-293 | M71-148 x M75-2 | - | F5 | |
| M84-302 | M73-62 x Dawson | - | F5 | Het. Rps1 |
| M84-389 | M75-243 x Dawson | - | F5 | Rps1 |
| M84-390 | M75-243 x Dawson | - | F5 | Rps1 |
| M84-395 | M75-243 x Dawson | - | F5 | Rps1 |
| M84-414 | M75-243 x M76-260 | - | F5 | Rps1 |
| M84-449 | Simpson x M71-148 | - | F5 | Rps1 |
| M84-568 | Glenwood x M74-55 (P) | - | F5 | Rps1 |
| M84-574 | Weber x M75-299 | - | F5 | Rps1 |
| M84-748 | M75-274 x M76-151 | - | F5 | Rps1 |
| M84-756 | M75-275 x Jacques 88 | - | F5 | Rps1 |
| M84-833 | M76-142 x Weber | - | F5 | Rps1 |
| M84-850 | M76-148 x Glenwood | - | F5 | Rps1 |
| ND1019 | Merit x SRF100 | - | F6 | |
| ND2328 | Wilkin x L62-973 | - | F6 | |
| ND2329 | Wilkin x L62-361 | - | F6 | |
| ND2330 | Wilkin x L62-973 | - | F6 | |
| ND2361 | (BD22115 x SRF150) x (Merit x Anoka) | - | F6 | Ln |
| ND2373 | Wilkin x L62-973 | - | F6 | |
| OT86-5 | (Maple Presto x Williams) x Weber | 1 | F5 | |

* Number of years in test.

## UNIFORM TEST 0, 1988

### DESCRIPTIVE DATA

| Strain | Descriptive Code | Chlorosis Score Ames | Chlorosis Score Lamberton | Emerg. Score Ames | Shattering Score Wilmot | Shattering Score Manhattan |
|---|---|---|---|---|---|---|
| Dawson (0) | PGBSYY | 2.0 | 2.0 | 1 | 1.0 | 1.0 |
| Glenwood | PGBDYIb | 2.1 | 3.5 | 1 | 1.0 | 1.0 |
| McCall (00) | PGBDYY | 2.6 | 2.5 | 1 | 1.0 | 1.0 |
| Sibley (I) | WGBDYY | 3.2 | 4.0 | 1 | 1.0 | 1.0 |
| M81-18 | PGBSYY | 2.2 | 3.2 | 2 | 1.0 | 2.0 |
| M81-27 | WGBDYY | 1.8 | 2.2 | 1 | 1.0 | 1.0 |
| M83-715 | WGBDYY+Bf | 3.0 | 3.5 | 2 | 1.0 | 1.0 |
| M83-727 | WGBDYIb | 3.1 | 3.8 | 1 | 1.0 | 1.0 |
| M83-744 | PGBDYY | 1.9 | 2.8 | 1 | 1.0 | 2.0 |
| M83-766 | WGBDYY | 3.0 | 4.0 | 2 | 1.0 | 1.0 |
| M83-770 | PGBDYY | 3.4 | 4.2 | 4 | 1.0 | 2.0 |
| M84-74 | PGBSYY | 2.5 | 2.8 | 5 | 1.0 | 3.0 |
| M84-140 | PGTDYIb | 2.6 | 4.0 | 1 | 1.0 | 2.0 |
| M84-293 | PGBSYIb | 2.9 | 3.8 | 3 | 1.0 | 2.0 |
| M84-302 | P+WGTDYY+Gr | 3.0 | 3.2 | 1 | 1.0 | 2.0 |
| M84-389 | PGBDYIb | 1.8 | 2.5 | 1 | 1.0 | 2.0 |
| M84-390 | PGBDYBf | 1.9 | 2.2 | 1 | 1.0 | 1.0 |
| M84-395 | PGBDYBf | 1.2 | 2.0 | 1 | 1.0 | 2.0 |
| M84-414 | WGBDYBf+Ib | 2.5 | 2.8 | 1 | 1.0 | 2.0 |
| M84-449 | PGBDYY | 3.0 | 3.5 | 1 | 1.0 | 3.0 |
| M84-568 | PTBDYBr | 2.6 | 3.5 | 1 | 1.0 | 1.0 |
| M84-574 | WTBSYBl | 2.8 | 3.8 | 4 | 1.0 | 2.0 |
| M84-748 | PGBSYBf | 2.9 | 3.8 | 1 | 1.0 | 2.0 |
| M84-756 | WTBDYBr | 3.0 | 3.8 | 5 | 1.0 | 1.0 |
| M84-833 | WGBDYY | 1.9 | 3.2 | 1 | 1.0 | 2.0 |
| M84-850 | WGBSYBf | 2.5 | 4.0 | 1 | 1.0 | 2.0 |
| ND1019 | PGBSYBf | 2.2 | 2.8 | 3 | 1.0 | 1.0 |
| ND2328 | PGBDYGr | 2.4 | 2.5 | 1 | 1.0 | 2.0 |
| ND2329 | WGBSYY | 2.4 | 3.2 | 2 | 1.0 | 2.0 |
| ND2330 | WGBDYY | 1.9 | 2.2 | 1 | 1.7 | 3.0 |
| ND2361 | PTBDYBr | 3.1 | 3.8 | 1 | 1.3 | 1.0 |
| ND2373 | PGBDYY | 2.4 | 3.0 | 1 | 1.0 | 2.0 |
| OT86-5 | WTTSTBl | 3.5 | 3.5 | 1 | 1.0 | 1.0 |

## UNIFORM TEST 0, 1988

### DISEASE DATA

| Strain | BTS | PR | | PS | PSB | SMV |
|---|---|---|---|---|---|---|
| | Ames | Urbana | Lafayette | | Lafayette | |
| | a | Race | Race | a | n | a |
| | Score | 1 | 7 | rt | % | Score |
| Dawson (0) | 3 | R | S | 2E | 20 | 1 |
| Glenwood | 3 | R | S | 3E | 36 | 2M |
| McCall (00) | 4 | S | S | 2E | 40 | 2M |
| Sibley (I) | 3 | R | S | 2M | 34 | 5E |
| M81-18 | 3 | R | S | 2E | 20 | 1 |
| M81-27 | 3 | R | S | 2E | 28 | 2M |
| M83-715 | 3 | H | S | 3E | 18 | 2M |
| M83-727 | 3 | R | S | 2E | 32 | 5E |
| M83-744 | 2 | S | S | 2E | 22 | 2M |
| M83-766 | 3 | R | S | 2E | 10 | 5S |
| M83-770 | 3 | R | S | 2E | 26 | 3M |
| M84-74 | 3 | R | S | 2E | 16 | 1 |
| M84-140 | 3 | R | S | 1 | 50 | 1 |
| M84-293 | 3 | R | R | 2E | 22 | 1 |
| M84-302 | 3 | S | S | 2E | 36 | 1 |
| M84-389 | 3 | H | S | 2E | 18 | 1 |
| M84-390 | 3 | R | S | 2E | 36 | 1 |
| M84-395 | 2 | R | S | 2E | 60 | 1 |
| M84-414 | 3 | R | S | 2E | 76 | 1 |
| M84-449 | 3 | R | S | 1 | 6 | 2M |
| M84-568 | 3 | R | S | 2E | 30 | 1 |
| M84-574 | 2 | R | S | 2E | 54 | 2E |
| M84-748 | 3 | R | S | 2M | 14 | 2M |
| M84-756 | 3 | R | S | 2E | 62 | 1 |
| M84-833 | 3 | S | S | 1 | 44 | 5E |
| M84-850 | 3 | R | S | 2E | 30 | 1 |
| ND1019 | 2 | R | S | 2E | 34 | 1 |
| ND2328 | 2 | S | S | 2E | 42 | 1 |
| ND2329 | 3 | S | S | 2E | 26 | 2M |
| ND2330 | 2 | R | S | 1 | 16 | 1 |
| ND2361 | 3 | R | S | 1 | 24 | 1 |
| ND2373 | 3 | R | S | 2E | 4 | 5S |
| OT86-5 | 2 | R | S | 1 | 82 | 1 |

## UNIFORM TEST 0, 1988

### REGIONAL SUMMARY

| | Yield | Rank | Maturity | Lodging | Plant Height | Seed Quality | Seed Size | Composition Protein | Composition Oil |
|---|---|---|---|---|---|---|---|---|---|
| No. of Tests | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 5 | 5 |
| Strain | bu/a | No. | Date | Score | In. | Score | g/100 | % | % |
| Dawson (0) | 28.0 | 19 | 09/15.1* | 1.6 | 27 | 2.1 | 15.1 | 40.5 | 20.8 |
| Glenwood | 29.3 | 13 | 0.9 | 1.4 | 25 | 2.3 | 16.7 | 41.4 | 20.8 |
| McCall (00) | 21.4 | 33 | -12.0 | 1.3 | 23 | 2.7 | 14.7 | 41.2 | 20.6 |
| Sibley (I) | 32.0 | 1 | 6.4 | 1.7 | 30 | 1.9 | 17.5 | 40.7 | 20.5 |
| M81-18 | 27.1 | 22 | -0.1 | 1.4 | 27 | 2.3 | 15.8 | 41.8 | 20.6 |
| M81-27 | 28.9 | 16 | 1.3 | 1.2 | 24 | 2.3 | 16.7 | 40.3 | 21.8 |
| M83-715 | 27.2 | 21 | 2.6 | 1.3 | 26 | 2.5 | 13.5 | 41.2 | 20.3 |
| M83-727 | 30.0 | 8 | 2.6 | 1.3 | 23 | 2.2 | 15.2 | 41.1 | 20.8 |
| M83-744 | 30.5 | 4 | 2.8 | 1.4 | 25 | 2.1 | 16.9 | 42.3 | 19.8 |
| M83-766 | 29.0 | 15 | 4.2 | 1.5 | 27 | 2.0 | 16.4 | 41.6 | 20.7 |
| M83-770 | 29.8 | 10 | 1.1 | 1.7 | 29 | 2.2 | 16.3 | 41.4 | 20.9 |
| M84-74 | 28.4 | 17 | -0.1 | 1.2 | 26 | 2.3 | 15.7 | 40.9 | 20.5 |
| M84-140 | 29.7 | 11 | 2.9 | 1.8 | 28 | 2.7 | 16.9 | 40.7 | 20.6 |
| M84-293 | 30.3 | 6 | 1.0 | 1.5 | 27 | 2.2 | 15.6 | 39.3 | 21.8 |
| M84-302 | 27.9 | 20 | -1.3 | 1.3 | 25 | 2.5 | 14.8 | 40.0 | 20.8 |
| M84-389 | 26.0 | 26 | 2.4 | 1.5 | 26 | 2.3 | 15.3 | 41.0 | 20.6 |
| M84-390 | 26.9 | 23 | -0.8 | 1.5 | 25 | 2.6 | 16.4 | 41.6 | 20.4 |
| M84-395 | 29.9 | 9 | 2.7 | 1.8 | 30 | 2.4 | 16.2 | 40.3 | 20.6 |
| M84-414 | 30.3 | 6 | 2.9 | 1.6 | 27 | 2.2 | 15.9 | 40.1 | 21.2 |
| M84-449 | 26.8 | 24 | -4.6 | 1.3 | 24 | 2.5 | 14.4 | 42.5 | 20.0 |
| M84-568 | 29.3 | 13 | 1.2 | 1.3 | 25 | 2.5 | 16.8 | 41.7 | 20.6 |
| M84-574 | 30.5 | 4 | 3.4 | 1.4 | 29 | 2.3 | 15.9 | 40.0 | 21.4 |
| M84-748 | 31.7 | 3 | 1.6 | 1.4 | 27 | 2.4 | 15.7 | 40.6 | 20.9 |
| M84-756 | 29.6 | 12 | 1.7 | 1.5 | 30 | 2.0 | 16.5 | 41.7 | 20.5 |
| M84-833 | 32.0 | 1 | 2.9 | 1.4 | 26 | 2.2 | 14.9 | 41.3 | 20.0 |
| M84-850 | 28.4 | 17 | 2.3 | 1.3 | 24 | 2.4 | 15.4 | 40.3 | 20.7 |
| ND1019 | 25.8 | 27 | -1.3 | 1.9 | 30 | 1.9 | 13.4 | 40.3 | 20.8 |
| ND2328 | 24.7 | 28 | -5.0 | 1.4 | 24 | 2.4 | 15.6 | 42.1 | 20.0 |
| ND2329 | 24.4 | 30 | -5.2 | 1.4 | 24 | 2.2 | 15.3 | 41.5 | 21.3 |
| ND2330 | 21.7 | 32 | -5.8 | 1.2 | 22 | 2.3 | 13.9 | 41.1 | 20.8 |
| ND2361 | 24.6 | 29 | -1.1 | 1.4 | 26 | 2.1 | 15.7 | 39.3 | 22.1 |
| ND2373 | 26.1 | 25 | -1.4 | 1.4 | 25 | 2.1 | 15.9 | 41.6 | 19.9 |
| OT86-5 | 24.2 | 31 | -4.7 | 1.3 | 26 | 2.4 | 14.1 | 39.6 | 22.0 |

* 117.6 Days after planting

## UNIFORM TEST 0, 1988

### 1987-1988 2-YEAR MEAN

| No. of Tests / Strain | Yield 17 bu/a | Rank 17 No. | Maturity 17 Date | Lodging 17 Score | Plant Height 17 In. | Seed Quality 17 Score | Seed Size 17 g/100 | Composition Protein 10 % | Composition Oil 10 % |
|---|---|---|---|---|---|---|---|---|---|
| Dawson (0) | 37.2 | 8 | 09/15.8* | 1.7 | 32 | 1.8 | 15.1 | 39.7 | 20.5 |
| Glenwood | 38.6 | 3 | 0.2 | 1.4 | 29 | 2.0 | 17.1 | 40.3 | 20.4 |
| McCall (00) | 27.9 | 12 | -12.0 | 1.4 | 27 | 2.4 | 14.9 | 40.1 | 20.6 |
| Sibley | 40.3 | 1 | 7.4 | 1.9 | 35 | 1.7 | 17.9 | 40.1 | 20.3 |
| M81-18 | 34.8 | 10 | -0.5 | 1.5 | 32 | 2.0 | 16.1 | 40.5 | 20.5 |
| M81-27 | 37.1 | 9 | 0.4 | 1.3 | 28 | 2.1 | 16.4 | 39.3 | 21.3 |
| M83-715 | 37.4 | 7 | 3.1 | 1.4 | 30 | 2.2 | 13.6 | 40.5 | 20.0 |
| M83-727 | 38.6 | 3 | 3.5 | 1.3 | 28 | 2.1 | 15.2 | 40.6 | 20.4 |
| M83-744 | 39.6 | 2 | 3.0 | 1.4 | 29 | 1.9 | 17.0 | 41.1 | 19.6 |
| M83-766 | 38.3 | 5 | 3.9 | 1.4 | 31 | 1.8 | 16.3 | 40.4 | 20.6 |
| M83-770 | 37.6 | 6 | 1.3 | 1.8 | 33 | 1.9 | 16.4 | 40.6 | 20.7 |
| OT86-5 | 34.6 | 11 | -4.3 | 1.5 | 30 | 2.3 | 14.0 | 39.3 | 21.5 |

* 116.8 Days after planting

### 1985-1988 4-YEAR MEAN

| No. of Tests / Strain | 35 | 35 | 32 | 34 | 35 | 33 | 35 | 19 | 19 |
|---|---|---|---|---|---|---|---|---|---|
| Dawson (0) | 38.4 | 4 | 09/21.7* | 2.0 | 32 | 1.8 | 15.1 | 40.1 | 19.6 |
| Glenwood | 40.0 | 1 | 0.5 | 1.5 | 30 | 2.0 | 17.2 | 40.9 | 19.5 |
| McCall (00) | 31.5 | 5 | -11.7 | 1.6 | 28 | 2.2 | 15.1 | 39.9 | 19.7 |
| M81-18 | 38.5 | 3 | -2.3 | 1.6 | 31 | 1.9 | 16.2 | 39.6 | 20.2 |
| M81-27 | 38.8 | 2 | 1.8 | 1.5 | 29 | 2.0 | 16.5 | 39.6 | 20.2 |

* 123.2 Days after planting

## UNIFORM TEST 0, 1988

### YIELD (bu/a)

| Strain | Mean 9 Tests | Bad Axe MI | Morris MN | Rose-mount MN | Cassel-ton ND | Ottawa Ont. | Smith-field Ont. | Wood-stock Ont. | Wil-mot SD | Spooner WI |
|---|---|---|---|---|---|---|---|---|---|---|
| Dawson (0) | 28.0 | 23.8 | 14.8 | 24.4 | 22.1 | 44.8 | 25.9 | 40.7 | 33.9 | 21.8 |
| Glenwood | 29.3 | 25.4 | 16.5 | 23.9 | 24.9 | 46.5 | 24.5 | 50.2 | 33.6 | 18.0 |
| McCall (00) | 21.4 | 23.4 | 10.0 | 24.0 | 14.3 | 32.3 | 22.5 | 35.8 | 16.6 | 14.0 |
| Sibley (I) | 32.0 | 28.3 | 20.5 | 35.9 | 24.2 | 38.2 | 36.6 | 51.2 | 30.7 | 22.8 |
| M81-18 | 27.1 | 27.8 | 5.6 | 25.6 | 21.0 | 46.7 | 29.5 | 41.8 | 28.0 | 17.6 |
| M81-27 | 28.9 | 30.8 | 10.6 | 27.5 | 26.1 | 42.9 | 29.7 | 46.3 | 25.2 | 20.6 |
| M83-715 | 27.2 | 26.3 | 6.1 | 19.2 | 26.6 | 45.2 | 26.5 | 49.6 | 27.0 | 18.7 |
| M83-727 | 30.0 | 31.7 | 8.5 | 31.0 | 26.2 | 48.3 | 25.1 | 52.8 | 27.3 | 19.0 |
| M83-744 | 30.5 | 26.6 | 18.5 | 32.2 | 23.6 | 43.5 | 25.9 | 48.9 | 32.2 | 22.7 |
| M83-766 | 29.0 | 27.8 | 15.0 | 27.7 | 22.7 | 44.9 | 26.6 | 44.9 | 32.0 | 19.6 |
| M83-770 | 29.8 | 27.5 | 13.3 | 29.9 | 23.8 | 42.4 | 32.7 | 45.9 | 30.7 | 21.9 |
| M84-74 | 28.4 | 24.7 | 12.7 | 28.6 | 23.4 | 46.3 | 28.3 | 41.2 | 30.6 | 20.1 |
| M84-140 | 29.7 | 32.1 | 14.8 | 30.8 | 20.3 | 41.9 | 33.1 | 42.0 | 28.9 | 23.0 |
| M84-293 | 30.3 | 30.6 | 19.5 | 30.6 | 25.1 | 45.8 | 22.9 | 49.8 | 27.2 | 21.6 |
| M84-302 | 27.9 | 25.5 | 6.0 | 23.3 | 26.2 | 47.9 | 22.0 | 48.6 | 29.1 | 22.4 |
| M84-389 | 26.0 | 25.8 | 6.1 | 26.3 | 21.4 | 40.7 | 26.0 | 39.5 | 26.9 | 21.6 |
| M84-390 | 26.9 | 26.8 | 10.2 | 25.6 | 22.7 | 46.7 | 24.2 | 45.0 | 24.3 | 16.2 |
| M84-395 | 29.9 | 27.0 | 16.9 | 26.8 | 17.7 | 45.1 | 32.4 | 48.4 | 30.2 | 24.5 |
| M84-414 | 30.3 | 29.7 | 13.6 | 27.4 | 25.2 | 45.9 | 30.8 | 50.6 | 29.1 | 20.1 |
| M84-449 | 26.8 | 25.1 | 9.2 | 23.3 | 29.7 | 43.4 | 24.3 | 46.2 | 27.1 | 13.0 |
| M84-568 | 29.3 | 26.0 | 18.1 | 32.6 | 22.2 | 42.8 | 24.3 | 49.0 | 26.4 | 22.1 |
| M84-574 | 30.5 | 31.1 | 16.9 | 25.1 | 22.6 | 44.5 | 26.7 | 48.7 | 32.0 | 27.0 |
| M84-748 | 31.7 | 36.3 | 12.2 | 34.9 | 28.6 | 51.1 | 27.2 | 47.6 | 29.7 | 18.1 |
| M84-756 | 29.6 | 30.1 | 14.3 | 30.1 | 16.6 | 47.9 | 30.6 | 45.4 | 30.4 | 21.2 |
| M84-833 | 32.0 | 31.8 | 14.2 | 32.6 | 25.8 | 50.3 | 31.8 | 55.3 | 24.3 | 21.7 |
| M84-850 | 28.4 | 27.5 | 12.3 | 25.3 | 29.7 | 47.9 | 19.5 | 48.5 | 28.4 | 16.6 |
| ND1019 | 25.8 | 24.1 | 14.7 | 24.3 | 24.1 | 38.3 | 27.5 | 31.0 | 26.8 | 21.2 |
| ND2328 | 24.7 | 27.4 | 10.5 | 19.9 | 23.7 | 41.9 | 23.6 | 43.4 | 19.0 | 12.7 |
| ND2329 | 24.4 | 24.3 | 14.2 | 23.3 | 17.6 | 38.9 | 25.4 | 40.4 | 20.7 | 15.2 |
| ND2330 | 21.7 | 26.3 | 2.8 | 15.3 | 19.1 | 42.0 | 22.6 | 42.0 | 12.8 | 12.3 |
| ND2361 | 24.6 | 25.6 | 10.2 | 25.8 | 23.8 | 34.5 | 23.8 | 40.6 | 19.3 | 17.5 |
| ND2373 | 26.1 | 25.5 | 10.8 | 22.7 | 21.4 | 45.5 | 23.0 | 46.7 | 25.4 | 13.8 |
| OT86-5 | 24.2 | 23.2 | 8.8 | 17.2 | 24.8 | 40.5 | 25.9 | 38.8 | 21.0 | 17.6 |
| C.V. (%) | | 14.4 | 37.3 | 25.4 | 23.1 | 8.2 | 20.5 | 8.1 | 14.5 | 17.8 |
| L.S.D. (5%) | | 5.6 | 7.7 | 11.0 | 8.6 | 5.1 | 7.8 | 5.1 | 6.3 | 5.6 |
| Row Sp. (In.) | | 20 | 10 | 10 | 30 | 16 | 16 | 14.8 | 30 | 36 |
| Rows/Plot | | 4 | 10 | 10 | 4 | 4 | 4 | 4 | 4 | 4 |
| Reps | | 4 | 3 | 3 | 3 | 4 | 4 | 4 | 3 | 3 |

## UNIFORM TEST 0, 1988

### YIELD RANK

| Strain | Yield Rank | Bad Axe MI | Morris MN | Rose-mount MN | Cassel-ton ND | Ottawa Ont. | Smith-field Ont. | Wood-stock Ont. | Wil-mot SD | Spooner WI |
|---|---|---|---|---|---|---|---|---|---|---|
| Dawson (0) | 19 | 31 | 9 | 22 | 24 | 17 | 17 | 27 | 1 | 9 |
| Glenwood | 13 | 26 | 7 | 25 | 11 | 9 | 22 | 5 | 2 | 22 |
| McCall (00) | 33 | 32 | 25 | 24 | 33 | 33 | 31 | 32 | 32 | 29 |
| Sibley (I) | 1 | 10 | 1 | 1 | 13 | 31 | 1 | 3 | 6 | 4 |
| M81-18 | 22 | 11 | 32 | 18 | 27 | 7 | 9 | 25 | 16 | 23 |
| M81-27 | 16 | 6 | 21 | 13 | 7 | 21 | 8 | 16 | 25 | 15 |
| M83-715 | 21 | 19 | 29 | 31 | 4 | 14 | 15 | 7 | 20 | 20 |
| M83-727 | 8 | 4 | 28 | 6 | 5 | 3 | 21 | 2 | 17 | 19 |
| M83-744 | 4 | 18 | 3 | 5 | 19 | 19 | 17 | 9 | 3 | 5 |
| M83-766 | 15 | 12 | 8 | 12 | 21 | 16 | 14 | 21 | 4 | 18 |
| M83-770 | 10 | 13 | 16 | 10 | 16 | 23 | 3 | 18 | 6 | 8 |
| M84-74 | 17 | 28 | 17 | 11 | 20 | 10 | 10 | 26 | 8 | 16 |
| M84-140 | 11 | 2 | 9 | 7 | 28 | 25 | 2 | 23 | 14 | 3 |
| M84-293 | 6 | 7 | 2 | 8 | 10 | 12 | 29 | 6 | 18 | 11 |
| M84-302 | 20 | 25 | 31 | 26 | 6 | 4 | 32 | 11 | 12 | 6 |
| M84-389 | 26 | 22 | 29 | 16 | 25 | 27 | 16 | 30 | 21 | 11 |
| M84-390 | 23 | 17 | 23 | 18 | 21 | 7 | 25 | 20 | 25 | 27 |
| M84-395 | 9 | 16 | 5 | 15 | 30 | 15 | 4 | 13 | 10 | 2 |
| M84-414 | 6 | 9 | 15 | 14 | 9 | 11 | 6 | 4 | 12 | 16 |
| M84-449 | 24 | 27 | 26 | 26 | 1 | 20 | 23 | 17 | 19 | 31 |
| M84-568 | 13 | 21 | 4 | 3 | 13 | 22 | 23 | 8 | 23 | 7 |
| M84-574 | 4 | 5 | 5 | 21 | 23 | 18 | 13 | 10 | 4 | 1 |
| M84-748 | 3 | 1 | 19 | 2 | 3 | 1 | 12 | 14 | 11 | 21 |
| M84-756 | 12 | 8 | 12 | 9 | 32 | 4 | 7 | 19 | 9 | 13 |
| M84-833 | 1 | 3 | 13 | 3 | 8 | 2 | 5 | 1 | 26 | 10 |
| M84-850 | 17 | 13 | 18 | 20 | 1 | 4 | 33 | 12 | 15 | 26 |
| ND1019 | 27 | 30 | 11 | 23 | 15 | 30 | 11 | 33 | 22 | 13 |
| ND2328 | 28 | 15 | 22 | 30 | 18 | 25 | 27 | 22 | 31 | 32 |
| ND2329 | 30 | 29 | 13 | 26 | 31 | 29 | 20 | 29 | 29 | 28 |
| ND2330 | 32 | 20 | 33 | 33 | 29 | 24 | 30 | 23 | 33 | 33 |
| ND2361 | 29 | 23 | 23 | 17 | 16 | 32 | 26 | 28 | 30 | 25 |
| ND2373 | 25 | 24 | 20 | 29 | 25 | 13 | 28 | 15 | 24 | 30 |
| OT86-5 | 31 | 33 | 27 | 32 | 12 | 28 | 17 | 31 | 28 | 23 |

## UNIFORM TEST 0, 1988

### MATURITY (date)

| Strain | Mean 9 Tests | Bad Axe MI | Morris MN | Rose-mount MN | Cassel-ton ND | Ottawa Ont. | Smith-field Ont. | Wood-stock Ont. | Wil-mot SD | Spooner WI |
|---|---|---|---|---|---|---|---|---|---|---|
| Dawson (0) | 09/15.1 | 09/12 | 09/05 | 08/31 | 09/15 | 10/04 | 09/24 | 09/14 | 09/08 | 09/24 |
| Glenwood | 0.9 | 1 | 6 | 2 | -5 | 1 | 0 | 3 | 3 | -3 |
| McCall (00) | -12.0 | -5 | -19 | -15 | -29 | -20 | -2 | -7 | -9 | -2 |
| Sibley (I) | 6.4 | 11 | 8 | 10 | 4 | 5 | 6 | 6 | 7 | 1 |
| M81-18 | -0.1 | 6 | -7 | 1 | -4 | 0 | 2 | 1 | 0 | 0 |
| M81-27 | 1.3 | 7 | -3 | 1 | 0 | 0 | 2 | 3 | 3 | -1 |
| M83-715 | 2.6 | 4 | 0 | 2 | 3 | 1 | 2 | 6 | 2 | 3 |
| M83-727 | 2.6 | 7 | 2 | 2 | 1 | 2 | 1 | 7 | 2 | -1 |
| M83-744 | 2.8 | 5 | 4 | 5 | -1 | 2 | 3 | 5 | 5 | -3 |
| M83-766 | 4.2 | 9 | 4 | 5 | 4 | 2 | 3 | 5 | 4 | 2 |
| M83-770 | 1.1 | 5 | 2 | -2 | 2 | 1 | 1 | 3 | 1 | -3 |
| M84-74 | -0.1 | 2 | -3 | -1 | 3 | -3 | 0 | 0 | 2 | -1 |
| M84-140 | 2.9 | 11 | 4 | 5 | -1 | 1 | 3 | 5 | 2 | -4 |
| M84-293 | 1.0 | 6 | -2 | 1 | -1 | 1 | 2 | 2 | 1 | -1 |
| M84-302 | -1.3 | 2 | -3 | -4 | -4 | -2 | 1 | 1 | 1 | -4 |
| M84-389 | 2.4 | 5 | 7 | 2 | 1 | -1 | 2 | 1 | 4 | 1 |
| M84-390 | -0.8 | 5 | -5 | -4 | -5 | -1 | 2 | 0 | -1 | 2 |
| M84-395 | 2.7 | 5 | 4 | 3 | 2 | 3 | 2 | 4 | 4 | -3 |
| M84-414 | 2.9 | 6 | 4 | 3 | 2 | 2 | 3 | 5 | 2 | -1 |
| M84-449 | -4.6 | -1 | -14 | -10 | -4 | -8 | -1 | -2 | -4 | 3 |
| M84-568 | 1.2 | 7 | 0 | 0 | -4 | -1 | 3 | 3 | 3 | 0 |
| M84-574 | 3.4 | 9 | 8 | 5 | 3 | 0 | 2 | 1 | 5 | -2 |
| M84-748 | 1.6 | 9 | 3 | 2 | -4 | 0 | 2 | 0 | 2 | 0 |
| M84-756 | 1.7 | 5 | 5 | -1 | 2 | 0 | 2 | 0 | 3 | -1 |
| M84-833 | 2.9 | 6 | 4 | 3 | 2 | 2 | 2 | 6 | 3 | -2 |
| M84-850 | 2.3 | 5 | 0 | 0 | 4 | 1 | 2 | 3 | 3 | 3 |
| ND1019 | -1.3 | 1 | 1 | -3 | -3 | -2 | -1 | 0 | -4 | -1 |
| ND2328 | -5.0 | -2 | -15 | -12 | -7 | -3 | -1 | 0 | -4 | -1 |
| ND2329 | -5.2 | -1 | -14 | -11 | -14 | -5 | 0 | 0 | -5 | 3 |
| ND2330 | -5.8 | -2 | -10 | -12 | -12 | -8 | 0 | -3 | -5 | 0 |
| ND2361 | -1.1 | 2 | 1 | -5 | -4 | 0 | 1 | 0 | -1 | -4 |
| ND2373 | -1.4 | 0 | 0 | -4 | -6 | -2 | 0 | 0 | -2 | 1 |
| OT86-5 | -4.7 | -1 | -3 | -4 | -14 | -9 | 1 | -7 | -1 | -4 |
| Date Planted | 05/20.4 | 05/24 | 05/11 | 05/13 | 05/13 | 05/28 | 06/01 | 05/26 | 05/26 | 05/11 |
| Days to Mature | 118 | 111 | 117 | 110 | 125 | 129 | 115 | 111 | 105 | 136 |

## UNIFORM TEST 0, 1988

### LODGING (score)

| Strain | Mean 9 Tests | Bad Axe MI | Morris MN | Rose-mount MN | Cassel-ton ND | Ottawa Ont. | Smith-field Ont. | Wood-stock Ont. | Wil-mot SD | Spooner WI |
|---|---|---|---|---|---|---|---|---|---|---|
| Dawson (0) | 1.6 | 1.0 | 1.0 | 2.0 | 1.0 | 3.3 | 1.0 | 2.9 | 1.0 | 1.0 |
| Glenwood | 1.4 | 1.0 | 1.0 | 1.7 | 1.0 | 2.6 | 1.0 | 2.0 | 1.0 | 1.0 |
| McCall (00) | 1.3 | 1.0 | 1.0 | 2.0 | 1.0 | 2.8 | 1.0 | 1.3 | 1.0 | 1.0 |
| Sibley (I) | 1.7 | 1.0 | 1.0 | 3.0 | 1.0 | 3.3 | 1.0 | 3.3 | 1.0 | 1.0 |
| M81-18 | 1.4 | 1.0 | 1.0 | 2.0 | 1.0 | 2.8 | 1.0 | 1.5 | 1.0 | 1.0 |
| M81-27 | 1.2 | 1.0 | 1.0 | 1.7 | 1.0 | 2.0 | 1.0 | 1.5 | 1.0 | 1.0 |
| M83-715 | 1.3 | 1.0 | 1.0 | 1.7 | 1.0 | 1.9 | 1.0 | 2.5 | 1.0 | 1.0 |
| M83-727 | 1.3 | 1.0 | 1.0 | 1.7 | 1.0 | 2.4 | 1.0 | 1.5 | 1.0 | 1.0 |
| M83-744 | 1.4 | 1.0 | 1.0 | 2.0 | 1.0 | 2.5 | 1.0 | 1.9 | 1.0 | 1.0 |
| M83-766 | 1.5 | 1.0 | 1.0 | 2.0 | 1.0 | 3.2 | 1.0 | 2.4 | 1.0 | 1.0 |
| M83-770 | 1.7 | 1.0 | 1.0 | 2.3 | 1.0 | 3.9 | 1.0 | 3.1 | 1.0 | 1.0 |
| M84-74 | 1.2 | 1.0 | 1.0 | 2.0 | 1.0 | 1.6 | 1.0 | 1.0 | 1.0 | 1.0 |
| M84-140 | 1.8 | 1.0 | 1.0 | 2.7 | 1.0 | 3.6 | 1.0 | 3.5 | 1.0 | 1.0 |
| M84-293 | 1.5 | 1.0 | 1.0 | 2.0 | 1.0 | 3.3 | 1.0 | 2.4 | 1.0 | 1.0 |
| M84-302 | 1.3 | 1.0 | 1.0 | 1.7 | 1.0 | 2.6 | 1.0 | 1.4 | 1.0 | 1.0 |
| M84-389 | 1.5 | 1.0 | 1.0 | 2.0 | 1.0 | 2.8 | 1.0 | 2.8 | 1.0 | 1.0 |
| M84-390 | 1.5 | 1.0 | 1.0 | 2.0 | 1.0 | 2.8 | 1.0 | 2.3 | 1.0 | 1.0 |
| M84-395 | 1.8 | 1.0 | 1.0 | 2.7 | 1.0 | 4.5 | 1.0 | 3.4 | 1.0 | 1.0 |
| M84-414 | 1.6 | 1.0 | 1.0 | 2.0 | 1.0 | 3.7 | 1.0 | 3.0 | 1.0 | 1.0 |
| M84-449 | 1.3 | 1.0 | 1.0 | 2.0 | 1.0 | 2.5 | 1.0 | 1.5 | 1.0 | 1.0 |
| M84-568 | 1.3 | 1.0 | 1.0 | 2.0 | 1.0 | 2.2 | 1.0 | 1.3 | 1.0 | 1.0 |
| M84-574 | 1.4 | 1.0 | 1.0 | 2.0 | 1.0 | 3.0 | 1.0 | 2.0 | 1.0 | 1.0 |
| M84-748 | 1.4 | 1.0 | 1.0 | 2.0 | 1.0 | 3.2 | 1.0 | 1.8 | 1.0 | 1.0 |
| M84-756 | 1.5 | 1.0 | 1.0 | 2.0 | 1.0 | 3.6 | 1.0 | 1.9 | 1.0 | 1.0 |
| M84-833 | 1.4 | 1.0 | 1.0 | 1.7 | 1.0 | 2.3 | 1.0 | 2.4 | 1.0 | 1.0 |
| M84-850 | 1.3 | 1.0 | 1.0 | 2.0 | 1.0 | 2.0 | 1.0 | 1.8 | 1.0 | 1.0 |
| ND1019 | 1.9 | 1.0 | 1.0 | 3.0 | 1.0 | 4.0 | 1.0 | 3.8 | 1.0 | 1.0 |
| ND2328 | 1.4 | 1.0 | 1.0 | 2.0 | 1.0 | 3.3 | 1.0 | 1.3 | 1.0 | 1.0 |
| ND2329 | 1.4 | 1.0 | 1.0 | 2.0 | 1.0 | 3.2 | 1.0 | 1.6 | 1.0 | 1.0 |
| ND2330 | 1.2 | 1.0 | 1.0 | 1.7 | 1.0 | 1.9 | 1.0 | 1.1 | 1.0 | 1.0 |
| ND2361 | 1.4 | 1.0 | 1.0 | 2.0 | 1.0 | 3.0 | 1.0 | 1.4 | 1.0 | 1.0 |
| ND2373 | 1.4 | 1.0 | 1.0 | 1.7 | 1.0 | 3.0 | 1.0 | 1.9 | 1.0 | 1.0 |
| OT86-5 | 1.3 | 1.0 | 1.0 | 2.0 | 1.0 | 2.3 | 1.0 | 1.6 | 1.0 | 1.0 |

## UNIFORM TEST 0, 1988

### PLANT HEIGHT (inches)

| Strain | Mean 9 Tests | Bad Axe MI | Morris MN | Rose-mount MN | Cassel-ton ND | Ottawa Ont. | Smith-field Ont. | Wood-stock Ont. | Wil-mot SD | Spooner WI |
|---|---|---|---|---|---|---|---|---|---|---|
| Dawson (0) | 27 | 24 | 21 | 26 | 24 | 42 | 19 | 36 | 30 | 25 |
| Glenwood | 25 | 22 | 20 | 24 | 21 | 39 | 18 | 39 | 25 | 19 |
| McCall (00) | 23 | 21 | 18 | 25 | 17 | 33 | 19 | 33 | 23 | 19 |
| Sibley (I) | 30 | 27 | 23 | 33 | 28 | 43 | 23 | 43 | 30 | 24 |
| M81-18 | 27 | 26 | 16 | 29 | 22 | 42 | 21 | 37 | 26 | 22 |
| M81-27 | 24 | 23 | 18 | 23 | 22 | 37 | 21 | 35 | 19 | 18 |
| M83-715 | 26 | 22 | 14 | 26 | 24 | 39 | 21 | 37 | 28 | 21 |
| M83-727 | 23 | 23 | 13 | 20 | 19 | 37 | 17 | 31 | 24 | 19 |
| M83-744 | 25 | 22 | 19 | 24 | 23 | 40 | 21 | 36 | 23 | 21 |
| M83-766 | 27 | 23 | 19 | 26 | 24 | 42 | 22 | 38 | 27 | 24 |
| M83-770 | 29 | 24 | 16 | 28 | 27 | 44 | 25 | 46 | 28 | 22 |
| M84-74 | 26 | 23 | 18 | 27 | 24 | 39 | 21 | 35 | 29 | 20 |
| M84-140 | 28 | 28 | 18 | 29 | 24 | 41 | 22 | 44 | 28 | 22 |
| M84-293 | 27 | 25 | 22 | 26 | 23 | 41 | 19 | 39 | 26 | 22 |
| M84-302 | 25 | 23 | 14 | 25 | 22 | 39 | 21 | 36 | 22 | 19 |
| M84-389 | 26 | 23 | 16 | 26 | 24 | 42 | 20 | 39 | 23 | 24 |
| M84-390 | 25 | 24 | 18 | 25 | 22 | 38 | 19 | 37 | 24 | 21 |
| M84-395 | 30 | 27 | 22 | 30 | 22 | 45 | 24 | 44 | 31 | 24 |
| M84-414 | 27 | 24 | 18 | 25 | 25 | 42 | 23 | 42 | 23 | 23 |
| M84-449 | 24 | 20 | 16 | 24 | 23 | 34 | 19 | 37 | 27 | 19 |
| M84-568 | 25 | 22 | 19 | 27 | 21 | 34 | 20 | 33 | 23 | 22 |
| M84-574 | 29 | 29 | 21 | 28 | 24 | 43 | 23 | 41 | 27 | 24 |
| M84-748 | 27 | 24 | 17 | 28 | 25 | 42 | 22 | 33 | 27 | 24 |
| M84-756 | 30 | 27 | 20 | 32 | 31 | 41 | 24 | 42 | 29 | 26 |
| M84-833 | 26 | 24 | 18 | 28 | 23 | 40 | 21 | 37 | 22 | 20 |
| M84-850 | 24 | 21 | 17 | 23 | 24 | 35 | 19 | 35 | 26 | 19 |
| ND1019 | 30 | 26 | 24 | 33 | 27 | 34 | 23 | 48 | 31 | 25 |
| ND2328 | 24 | 23 | 14 | 23 | 22 | 41 | 20 | 33 | 25 | 18 |
| ND2329 | 24 | 22 | 16 | 25 | 20 | 41 | 20 | 32 | 22 | 20 |
| ND2330 | 22 | 22 | 10 | 20 | 19 | 36 | 19 | 32 | 20 | 18 |
| ND2361 | 26 | 23 | 18 | 27 | 23 | 35 | 22 | 39 | 22 | 23 |
| ND2373 | 25 | 22 | 17 | 26 | 21 | 39 | 20 | 39 | 21 | 20 |
| OT86-5 | 26 | 25 | 15 | 29 | 23 | 40 | 20 | 32 | 26 | 22 |

## UNIFORM TEST 0, 1988

### SEED QUALITY (score)

| Strain | Mean 9 Tests | Bad Axe MI | Morris MN | Rose-mount MN | Cassel-ton ND | Ottawa Ont. | Smith-field Ont. | Wood-stock Ont. | Wil-mot SD | Spooner WI |
|---|---|---|---|---|---|---|---|---|---|---|
| Dawson (0) | 2.1 | 1.0 | 3.0 | 2.7 | 3.7 | 2.0 | 2.0 | 1.5 | 2.0 | 1.0 |
| Glenwood | 2.3 | 1.3 | 3.7 | 4.0 | 3.0 | 1.3 | 2.0 | 1.5 | 3.0 | 1.0 |
| McCall (00) | 2.7 | 1.3 | 3.7 | 3.7 | 3.7 | 2.0 | 2.0 | 2.0 | 4.0 | 2.3 |
| Sibley (I) | 1.9 | 1.0 | 3.3 | 1.7 | 3.0 | 2.0 | 1.7 | 1.5 | 2.0 | 1.0 |
| M81-18 | 2.3 | 1.0 | 4.0 | 2.3 | 4.0 | 1.7 | 1.8 | 1.5 | 3.0 | 1.3 |
| M81-27 | 2.3 | 1.0 | 4.3 | 2.7 | 3.3 | 1.5 | 1.7 | 1.5 | 3.0 | 1.3 |
| M83-715 | 2.5 | 1.0 | 4.0 | 4.0 | 3.7 | 2.0 | 1.8 | 1.5 | 3.0 | 1.3 |
| M83-727 | 2.2 | 1.0 | 3.7 | 2.7 | 3.0 | 1.8 | 1.7 | 2.0 | 3.0 | 1.3 |
| M83-744 | 2.1 | 1.0 | 3.0 | 1.7 | 4.7 | 1.5 | 1.7 | 1.5 | 3.0 | 1.0 |
| M83-766 | 2.0 | 1.0 | 2.7 | 1.7 | 3.3 | 2.0 | 2.0 | 1.5 | 2.0 | 1.7 |
| M83-770 | 2.2 | 1.0 | 3.3 | 2.3 | 4.0 | 1.5 | 2.0 | 1.5 | 3.0 | 1.0 |
| M84-74 | 2.3 | 1.0 | 3.7 | 2.7 | 4.0 | 1.7 | 2.0 | 1.5 | 3.0 | 1.0 |
| M84-140 | 2.7 | 1.0 | 4.7 | 4.0 | 5.0 | 1.2 | 2.0 | 1.5 | 3.0 | 1.7 |
| M84-293 | 2.2 | 1.0 | 3.7 | 2.3 | 4.0 | 1.0 | 1.8 | 1.5 | 3.0 | 1.7 |
| M84-302 | 2.5 | 1.0 | 4.3 | 3.0 | 3.7 | 2.0 | 2.0 | 2.0 | 3.0 | 1.3 |
| M84-389 | 2.3 | 1.0 | 4.0 | 2.7 | 4.3 | 1.0 | 1.5 | 2.0 | 3.0 | 1.3 |
| M84-390 | 2.6 | 1.0 | 3.7 | 3.0 | 4.0 | 1.5 | 2.0 | 1.5 | 4.0 | 2.3 |
| M84-395 | 2.4 | 1.0 | 4.0 | 3.0 | 3.7 | 1.5 | 2.0 | 1.5 | 4.0 | 1.0 |
| M84-414 | 2.2 | 1.3 | 4.0 | 2.7 | 4.0 | 1.0 | 1.2 | 1.5 | 3.0 | 1.0 |
| M84-449 | 2.5 | 1.0 | 3.7 | 2.7 | 4.0 | 2.0 | 2.0 | 1.5 | 3.0 | 2.3 |
| M84-568 | 2.5 | 1.0 | 4.0 | 3.3 | 4.3 | 1.8 | 2.0 | 1.5 | 3.0 | 1.3 |
| M84-574 | 2.3 | 1.0 | 4.0 | 3.3 | 4.0 | 1.3 | 1.3 | 2.0 | 3.0 | 1.0 |
| M84-748 | 2.4 | 1.0 | 3.7 | 2.7 | 4.0 | 1.5 | 2.0 | 1.5 | 3.0 | 2.0 |
| M84-756 | 2.0 | 1.0 | 3.3 | 2.7 | 3.3 | 1.2 | 1.8 | 1.5 | 2.0 | 1.0 |
| M84-833 | 2.2 | 1.0 | 4.0 | 2.3 | 3.7 | 1.2 | 2.0 | 1.5 | 3.0 | 1.3 |
| M84-850 | 2.4 | 1.0 | 4.0 | 2.3 | 4.0 | 1.5 | 2.0 | 1.5 | 3.0 | 2.0 |
| ND1019 | 1.9 | 1.0 | 3.3 | 1.3 | 3.7 | 1.0 | 2.0 | 1.5 | 2.0 | 1.0 |
| ND2328 | 2.4 | 1.0 | 3.7 | 3.0 | 4.0 | 1.5 | 2.0 | 1.5 | 3.0 | 2.3 |
| ND2329 | 2.2 | 1.0 | 3.7 | 2.0 | 4.0 | 1.7 | 2.0 | 1.5 | 3.0 | 1.3 |
| ND2330 | 2.3 | 1.0 | 3.7 | 3.0 | 3.3 | 1.5 | 2.0 | 1.5 | 3.0 | 2.0 |
| ND2361 | 2.1 | 1.0 | 3.7 | 2.7 | 3.3 | 1.5 | 2.0 | 1.5 | 2.0 | 1.0 |
| ND2373 | 2.1 | 1.0 | 3.3 | 2.3 | 3.0 | 1.5 | 1.7 | 1.5 | 2.0 | 2.3 |
| OT86-5 | 2.4 | 1.0 | 3.7 | 3.0 | 4.0 | 2.0 | 1.8 | 2.0 | 2.0 | 2.0 |

## UNIFORM TEST 0, 1988

### SEED SIZE (g/100)

| Strain | Mean 9 Tests | Bad Axe MI | Morris MN | Rose-mount MN | Cassel-ton ND | Ottawa Ont. | Smith-field Ont. | Wood-stock Ont. | Wil-mot SD | Spooner WI |
|---|---|---|---|---|---|---|---|---|---|---|
| Dawson (0) | 15.1 | 13.7 | 13.2 | 12.8 | 16.2 | 15.9 | 14.7 | 13.2 | 16.3 | 20.1 |
| Glenwood | 16.7 | 14.6 | 16.0 | 14.5 | 16.6 | 16.9 | 17.4 | 16.9 | 19.0 | 18.2 |
| McCall (00) | 14.7 | 13.4 | 11.8 | 12.9 | 13.5 | 14.2 | 14.1 | 14.5 | 18.5 | 19.4 |
| Sibley (I) | 17.5 | 14.5 | 16.1 | 15.4 | 18.7 | 17.9 | 18.3 | 18.7 | 18.1 | 20.1 |
| M81-18 | 15.8 | 14.1 | 12.7 | 13.1 | 16.0 | 16.5 | 16.4 | 15.4 | 18.2 | 20.0 |
| M81-27 | 16.7 | 14.7 | 13.5 | 15.2 | 19.4 | 16.4 | 16.9 | 15.6 | 21.1 | 17.6 |
| M83-715 | 13.5 | 11.8 | 11.2 | 10.9 | 15.1 | 13.9 | 13.4 | 13.9 | 16.1 | 15.6 |
| M83-727 | 15.2 | 13.3 | 13.0 | 11.6 | 15.7 | 16.8 | 15.6 | 16.8 | 17.0 | 16.7 |
| M83-744 | 16.9 | 14.7 | 14.8 | 16.5 | 16.0 | 17.2 | 17.7 | 17.3 | 19.0 | 18.9 |
| M83-766 | 16.4 | 14.3 | 14.6 | 13.7 | 18.4 | 17.5 | 16.2 | 16.2 | 17.9 | 18.8 |
| M83-770 | 16.3 | 14.5 | 14.3 | 13.6 | 18.0 | 16.9 | 15.6 | 16.2 | 19.1 | 18.7 |
| M84-74 | 15.7 | 13.6 | 13.8 | 14.3 | 16.3 | 16.6 | 15.7 | 13.5 | 17.8 | 19.7 |
| M84-140 | 16.9 | 15.1 | 15.8 | 14.9 | 17.0 | 17.3 | 17.4 | 16.1 | 19.0 | 19.2 |
| M84-293 | 15.6 | 13.3 | 14.4 | 14.0 | 16.7 | 15.6 | 15.8 | 14.1 | 17.4 | 19.1 |
| M84-302 | 14.8 | 12.6 | 12.3 | 12.0 | 15.7 | 16.5 | 14.6 | 15.0 | 16.3 | 18.6 |
| M84-389 | 15.3 | 13.6 | 12.5 | 13.9 | 16.5 | 16.5 | 16.0 | 14.5 | 16.2 | 18.2 |
| M84-390 | 16.4 | 14.9 | 13.5 | 12.5 | 16.8 | 18.1 | 16.2 | 15.6 | 20.4 | 19.8 |
| M84-395 | 16.2 | 13.5 | 15.7 | 15.0 | 18.0 | 16.0 | 16.8 | 15.3 | 16.8 | 18.4 |
| M84-414 | 15.9 | 14.0 | 15.4 | 14.1 | 15.5 | 16.7 | 15.3 | 15.3 | 18.9 | 17.6 |
| M84-449 | 14.4 | 12.6 | 11.7 | 12.8 | 15.5 | 13.6 | 14.1 | 14.6 | 17.0 | 17.7 |
| M84-568 | 16.8 | 14.6 | 16.4 | 15.8 | 15.7 | 16.9 | 17.7 | 17.2 | 19.3 | 17.7 |
| M84-574 | 15.9 | 14.7 | 15.6 | 14.6 | 15.1 | 14.9 | 17.7 | 14.4 | 18.1 | 17.6 |
| M84-748 | 15.7 | 14.5 | 15.0 | 14.1 | 17.3 | 16.1 | 16.1 | 13.9 | 18.1 | 16.6 |
| M84-756 | 16.5 | 14.2 | 16.8 | 15.3 | 17.9 | 16.2 | 15.9 | 14.9 | 18.8 | 18.1 |
| M84-833 | 14.9 | 13.8 | 13.3 | 13.2 | 13.8 | 14.6 | 15.0 | 15.7 | 17.3 | 17.7 |
| M84-850 | 15.4 | 14.0 | 12.8 | 12.8 | 14.8 | 16.5 | 15.3 | 15.3 | 18.3 | 18.7 |
| ND1019 | 13.4 | 11.8 | 11.8 | 10.9 | 14.0 | 14.4 | 14.1 | 10.7 | 15.7 | 17.3 |
| ND2328 | 15.6 | 14.5 | 13.8 | 13.0 | 14.7 | 17.4 | 15.6 | 17.2 | 18.4 | 16.1 |
| ND2329 | 15.3 | 14.3 | 13.8 | 12.9 | 14.2 | 14.9 | 15.6 | 14.2 | 18.7 | 18.8 |
| ND2330 | 13.9 | 13.5 | 11.8 | 10.9 | 13.7 | 14.4 | 13.3 | 13.9 | 16.1 | 17.6 |
| ND2361 | 15.7 | 16.1 | 13.3 | 13.4 | 13.2 | 15.9 | 15.9 | 18.7 | 17.9 | 16.6 |
| ND2373 | 15.9 | 14.0 | 13.4 | 13.3 | 15.9 | 16.5 | 16.6 | 17.8 | 17.5 | 18.4 |
| OT86-5 | 14.1 | 13.4 | 13.8 | 13.4 | 13.0 | 13.7 | 14.4 | 13.2 | 16.6 | 15.4 |

## UNIFORM TEST 0, 1988

### PROTEIN (%)

| Strain | Mean 5 Tests | Rosemount MN | Casselton ND | Woodstock Ont. | Wilmot SD | Spooner WI |
|---|---|---|---|---|---|---|
| Dawson (0) | 40.5 | 39.3 | 40.1 | 43.0 | 38.9 | 41.0 |
| Glenwood | 41.4 | 40.5 | 38.2 | 44.0 | 42.3 | 41.8 |
| McCall (00) | 41.2 | 40.1 | 39.8 | 41.9 | 39.2 | 44.8 |
| Sibley (I) | 40.7 | 39.6 | 40.9 | 42.5 | 39.4 | 41.0 |
| M81-18 | 41.8 | 41.2 | 41.0 | 43.4 | 39.9 | 43.3 |
| M81-27 | 40.3 | 39.9 | 38.9 | 42.8 | 39.6 | 40.1 |
| M83-715 | 41.2 | 42.2 | 40.7 | 43.8 | 38.2 | 41.1 |
| M83-727 | 41.1 | 40.1 | 39.9 | 43.2 | 40.8 | 41.4 |
| M83-744 | 42.3 | 42.1 | 40.8 | 43.7 | 42.3 | 42.8 |
| M83-766 | 41.6 | 40.5 | 41.5 | 43.7 | 40.8 | 41.6 |
| M83-770 | 41.4 | 39.8 | 41.3 | 43.7 | 41.6 | 40.6 |
| M84-74 | 40.9 | 40.0 | 41.4 | 42.3 | 39.1 | 41.8 |
| M84-140 | 40.7 | 40.5 | 40.9 | 42.2 | 40.3 | 39.6 |
| M84-293 | 39.3 | 38.6 | 38.4 | 41.6 | 38.6 | 39.1 |
| M84-302 | 40.0 | 39.4 | 38.6 | 42.1 | 39.6 | 40.1 |
| M84-389 | 41.0 | 41.0 | 39.7 | 43.2 | 40.4 | 40.5 |
| M84-390 | 41.6 | 41.3 | 39.4 | 43.2 | 41.5 | 42.5 |
| M84-395 | 40.3 | 39.8 | 42.6 | 42.4 | 37.9 | 38.8 |
| M84-414 | 40.1 | 39.9 | 39.2 | 42.0 | 39.6 | 39.8 |
| M84-449 | 42.5 | 42.2 | 40.3 | 44.2 | 41.5 | 44.3 |
| M84-568 | 41.7 | 40.9 | 39.6 | 43.2 | 42.4 | 42.3 |
| M84-574 | 40.0 | 40.6 | 40.0 | 40.0 | 40.1 | 39.3 |
| M84-748 | 40.6 | 39.9 | 39.8 | 40.0 | 41.1 | 42.1 |
| M84-756 | 41.7 | 40.8 | 41.3 | 43.7 | 41.4 | 41.3 |
| M84-833 | 41.3 | 40.2 | 40.1 | 43.9 | 40.8 | 41.7 |
| M84-850 | 40.3 | 38.0 | 39.3 | 42.5 | 40.1 | 41.7 |
| ND1019 | 40.3 | 40.1 | 40.0 | 41.1 | 38.6 | 41.6 |
| ND2328 | 42.1 | 41.0 | 39.8 | 43.2 | 41.4 | 45.0 |
| ND2329 | 41.5 | 39.3 | 40.6 | 42.7 | 40.2 | 44.7 |
| ND2330 | 41.1 | 41.4 | 39.4 | 40.6 | 40.2 | 43.8 |
| ND2361 | 39.3 | 38.2 | 37.8 | 41.6 | 40.0 | 39.1 |
| ND2373 | 41.6 | 40.1 | 40.8 | 42.5 | 41.2 | 43.5 |
| OT86-5 | 39.6 | 38.2 | 38.4 | 41.8 | 39.5 | 39.9 |

## UNIFORM TEST 0, 1988

### OIL (%)

| Strain | Mean 5 Tests | Rosemount MN | Casselton ND | Woodstock Ont. | Wilmot SD | Spooner WI |
|---|---|---|---|---|---|---|
| Dawson (0) | 20.8 | 22.9 | 21.5 | 19.4 | 21.6 | 18.6 |
| Glenwood | 20.8 | 22.2 | 23.4 | 18.7 | 20.8 | 18.8 |
| McCall (00) | 20.6 | 22.4 | 21.9 | 19.1 | 21.4 | 18.4 |
| Sibley (I) | 20.5 | 22.9 | 21.0 | 18.5 | 20.9 | 19.2 |
| M81-18 | 20.6 | 22.9 | 21.7 | 19.2 | 22.2 | 17.1 |
| M81-27 | 21.8 | 23.6 | 23.3 | 18.8 | 21.7 | 21.6 |
| M83-715 | 20.3 | 21.2 | 20.8 | 18.8 | 21.5 | 19.0 |
| M83-727 | 20.8 | 22.5 | 21.8 | 18.5 | 21.3 | 19.7 |
| M83-744 | 19.8 | 22.1 | 21.0 | 17.8 | 20.0 | 18.2 |
| M83-766 | 20.7 | 22.9 | 21.6 | 18.7 | 21.6 | 18.8 |
| M83-770 | 20.9 | 23.4 | 20.9 | 19.2 | 21.1 | 20.1 |
| M84-74 | 20.5 | 22.6 | 20.5 | 19.1 | 21.2 | 19.1 |
| M84-140 | 20.6 | 22.7 | 20.4 | 18.8 | 21.9 | 19.1 |
| M84-293 | 21.8 | 23.8 | 22.9 | 19.8 | 22.5 | 19.8 |
| M84-302 | 20.8 | 23.4 | 22.2 | 18.6 | 21.6 | 18.3 |
| M84-389 | 20.6 | 22.3 | 22.0 | 18.7 | 21.0 | 19.2 |
| M84-390 | 20.4 | 21.5 | 22.2 | 18.7 | 21.0 | 18.4 |
| M84-395 | 20.6 | 22.7 | 20.2 | 18.9 | 21.2 | 19.8 |
| M84-414 | 21.2 | 22.9 | 22.2 | 19.5 | 21.8 | 19.4 |
| M84-449 | 20.0 | 21.7 | 22.3 | 18.4 | 21.2 | 16.6 |
| M84-568 | 20.6 | 22.4 | 22.8 | 18.4 | 20.7 | 18.9 |
| M84-574 | 21.4 | 22.7 | 22.2 | 20.7 | 21.8 | 19.8 |
| M84-748 | 20.9 | 22.9 | 22.1 | 20.7 | 21.4 | 17.6 |
| M84-756 | 20.5 | 22.0 | 21.1 | 19.3 | 20.5 | 19.8 |
| M84-833 | 20.0 | 22.4 | 21.2 | 17.7 | 20.6 | 18.1 |
| M84-850 | 20.7 | 22.3 | 22.4 | 18.5 | 21.2 | 19.0 |
| ND1019 | 20.8 | 22.8 | 22.0 | 18.8 | 22.2 | 18.4 |
| ND2328 | 20.0 | 20.9 | 22.3 | 19.2 | 20.6 | 16.8 |
| ND2329 | 21.3 | 22.8 | 23.2 | 20.0 | 21.8 | 18.9 |
| ND2330 | 20.8 | 21.8 | 22.4 | 19.9 | 21.4 | 18.5 |
| ND2361 | 22.1 | 24.3 | 22.9 | 20.8 | 22.7 | 20.0 |
| ND2373 | 19.9 | 21.9 | 21.1 | 19.7 | 20.4 | 16.6 |
| OT86-5 | 22.0 | 23.9 | 22.5 | 20.6 | 22.6 | 20.2 |

## UNIFORM TEST I, 1988

| Strain | Parentage | Previous* Testing | Generation Composited |
|---|---|---|---|
| Dawson (0) | Evans x M63-217Y | 2 | F5 |
| Elgin 87 (II) | Elgin (5) x Williams 82 | 4 | BC4 F2 |
| Hardin | Corsoy (3) x Cutler 71 | 5 | F5 |
| Sibley (I) | M68-256 x Hodgson | 5 | F5 |
| A85-192034 | A80-344003 x Asgrow A1937 | 1 | F5 |
| A86-101009 | Hack x Asgrow A1937 | PTI | F5 |
| M81-382 | M70-127 x Century | 2 | F5 |
| M81-384 | M70-127 x Century | 1 | F5 |
| M82-106 | M73-105 x Vickery | 1 | F5 |
| M82-559 | Vickery x Century | 1 | F5 |
| M83-108 | Hodgson 78 x Pella | PTI | F4 |
| M83-357 | M71-52 x Asgrow A2656 | PTI | F4 |
| M83-504 | M71-52 x M74-23 | PTI | F5 |
| M83-767 | M70-260 x Asgrow A1564 | PTI | F5 |
| M83-792 | M71-38 x M74-417 | PTI | F5 |
| M83-819 | Evans x Century | PTI | F5 |
| M83-830 | Evans x Century | PTI | F5 |
| M83-899 | M74-270 x A78-123018 | PTI | F5 |

* Number of years in test or name of 1987 test.

# UNIFORM TEST I, 1988

## DESCRIPTIVE DATA

| Strain | Descriptive Code | Chlorosis Score Ames | Chlorosis Score Lamber-ton | Emerg. Score Ames | Shattering Score Brookings | Shattering Score Manhattan |
|---|---|---|---|---|---|---|
| Dawson (0) | PGBSYY | 1.9 | 2.0 | 2 | 2.0 | 1.0 |
| Elgin 87 (II) | PTBSYBl | 3.9 | 3.2 | 3 | 1.0 | 1.0 |
| Hardin | PGBSYY | 3.4 | 4.2 | 2 | 2.0 | 1.0 |
| Sibley (I) | WGBDYY | 3.6 | 4.0 | 1 | 2.0 | 1.0 |
| A85-192034 | WTTBSYBr | 3.2 | 2.5 | 4 | 1.0 | 2.0 |
| A86-101009 | WTBSYBf+Bl | 3.1 | 2.0 | 1 | 1.0 | 2.0 |
| M81-382 | PTBSYBl | 2.9 | 2.2 | 3 | 1.3 | 2.0 |
| M81-384 | PGBSYIb | 2.1 | 3.0 | 5 | 1.0 | 1.0 |
| M82-106 | P+WGBSYBf | 2.8 | 3.2 | 2 | 1.7 | 1.0 |
| M82-559 | PGBDYYY | 3.6 | 4.2 | 1 | 1.0 | 1.0 |
| M83-108 | PGBSYIb | 3.1 | 4.0 | 5 | 1.0 | 1.0 |
| M83-357 | PGBSYBl | 3.2 | 3.5 | 3 | 1.0 | 1.0 |
| M83-504 | WGBSYBf | 4.0 | 2.8 | 1 | 1.3 | 2.0 |
| M83-767 | WGBDYY | 3.5 | 2.8 | 2 | 2.0 | 2.0 |
| M83-792 | PGBSYIb | 2.2 | 2.2 | 5 | 2.0 | 2.0 |
| M83-819 | WTBSYBl | 2.9 | 3.8 | 2 | 2.0 | 2.0 |
| M83-830 | WTBSYBl | 2.2 | 2.2 | 1 | 1.0 | 1.0 |
| M83-899 | PGBSYBf | 3.5 | 3.8 | 1 | 2.0 | 2.0 |

## DISEASE DATA

| Strain | BTS Ames a Score | BSR-Ames Plant n % | BSR-Ames Stem n % | PR Ames Race 4 Reaction | PR Urbana-Laf. Race 1 | PR Urbana-Laf. Race 7 | PS Lafayette a rt | PSB Lafayette n % | SMV Lafayette a Score |
|---|---|---|---|---|---|---|---|---|---|
| Dawson (0) | 2 | 20.0 | 5.2 | S | R | S | 2E | 20 | 1 |
| Elgin 87 (II) | 4 | 40.0 | 12.4 | R | R | R | 2E | 12 | 5E |
| Hardin | 2 | 20.0 | 2.7 | S | R | S | 3E | 18 | 1 |
| Sibley (I) | 3 | 60.0 | 9.9 | S | R | S | 2E | 34 | 5E |
| A85-192034 | 3 | 50.0 | 9.3 | S | R | S | 3E | 34 | 1 |
| A86-101009 | 3 | 50.0 | 7.5 | S | H | S | 2E | 22 | 1 |
| M81-382 | 3 | 50.0 | 14.4 | S | R | S | 2E | 40 | 1 |
| M81-384 | 3 | 30.0 | 9.0 | S | R | S | 2E | 46 | 1 |
| M82-106 | 3 | 20.0 | 6.1 | S | H | R | 2E | 26 | 1 |
| M82-559 | 3 | 10.0 | 5.0 | S | H | S | 2E | 34 | 5E |
| M83-108 | 3 | 60.0 | 33.5 | S | R | S | 2E | 24 | 5E |
| M83-357 | 2 | 60.0 | 13.6 | S | R | S | 2E | 28 | 1 |
| M83-504 | 3 | 50.0 | 13.9 | S | R | S | 2E | 42 | 1 |
| M83-767 | 3 | 40.0 | 18.0 | S | R | S | 2E | 22 | 1 |
| M83-792 | 3 | 40.0 | 7.1 | S | R | S | 2E | 12 | 1 |
| M83-819 | 3 | 60.0 | 16.3 | S | R | S | 1 | 30 | 5E |
| M83-830 | 3 | 60.0 | 12.8 | S | R | S | 2E | 6 | 3E |
| M83-899 | 3 | 80.0 | 26.3 | S | R | S | 2E | 6 | 5E |

## UNIFORM TEST I, 1988

## REGIONAL SUMMARY

| Strain | Yield | Rank | Maturity | Lodging | Plant Height | Seed Quality | Seed Size | Composition Protein | Composition Oil |
|---|---|---|---|---|---|---|---|---|---|
| No. of Tests | 15 | 15 | 13 | 14 | 15 | 15 | 15 | 5 | 5 |
| | bu/a | No. | Date | Score | In. | Score | g/100 | % | % |
| Dawson (0) | 30.8 | 18 | -7.4 | 1.3 | 26 | 2.7 | 15.4 | 39.2 | 22.5 |
| Elgin 87 (II) | 41.9 | 1 | 7.5 | 1.5 | 31 | 2.1 | 15.1 | 37.4 | 21.9 |
| Hardin | 38.7 | 6 | 2.6 | 1.9 | 34 | 2.5 | 14.4 | 39.0 | 22.4 |
| Sibley (I) | 36.1 | 10 | 09/10.2* | 1.6 | 31 | 2.2 | 16.8 | 38.9 | 23.0 |
| A85-192034 | 40.1 | 4 | 4.2 | 1.3 | 31 | 1.8 | 16.6 | 40.4 | 21.7 |
| A86-101009 | 38.5 | 7 | 3.8 | 1.2 | 31 | 2.4 | 16.3 | 40.2 | 20.7 |
| M81-382 | 35.8 | 11 | -0.1 | 1.3 | 32 | 3.1 | 18.8 | 41.4 | 20.7 |
| M81-384 | 40.3 | 3 | 4.7 | 1.4 | 32 | 1.9 | 17.6 | 38.6 | 22.1 |
| M82-106 | 37.2 | 8 | 1.5 | 1.2 | 30 | 2.4 | 15.5 | 40.8 | 22.4 |
| M82-559 | 35.3 | 12 | 0.2 | 1.2 | 27 | 2.2 | 17.0 | 41.1 | 21.5 |
| M83-108 | 39.6 | 5 | 4.5 | 1.2 | 32 | 2.3 | 18.6 | 38.9 | 22.2 |
| M83-357 | 34.1 | 14 | 2.8 | 1.2 | 30 | 2.9 | 17.3 | 39.5 | 22.0 |
| M83-504 | 35.1 | 13 | 2.8 | 1.3 | 29 | 2.4 | 18.2 | 39.9 | 22.2 |
| M83-767 | 31.0 | 17 | -3.4 | 1.2 | 27 | 2.4 | 16.2 | 39.6 | 21.9 |
| M83-792 | 32.7 | 15 | -1.2 | 1.3 | 30 | 2.6 | 15.8 | 39.9 | 22.2 |
| M83-819 | 32.3 | 16 | 0.0 | 1.1 | 27 | 2.2 | 18.0 | 41.4 | 21.4 |
| M83-830 | 36.7 | 9 | 3.5 | 1.1 | 28 | 2.4 | 17.3 | 40.2 | 21.7 |
| M83-899 | 41.6 | 2 | 4.8 | 1.6 | 36 | 2.2 | 15.7 | 37.2 | 22.3 |

* 119.3 Days after planting

## UNIFORM TEST I, 1988

### 1987-1988 2-YEAR MEAN

| | Yield | Rank | Maturity | Lodging | Plant Height | Seed Quality | Seed Size | Composition Protein | Composition Oil |
|---|---|---|---|---|---|---|---|---|---|
| No. of Tests | 30 | 30 | 25 | 29 | 30 | 28 | 28 | 10 | 10 |
| Strain | bu/a | No. | Date | Score | In. | Score | g/100 | % | % |
| Dawson (0) | 36.0 | 9 | -1.2 | 1.5 | 30 | 2.4 | 15.8 | 39.1 | 21.9 |
| Elgin (II) | 45.8 | 1 | 8.7 | 1.9 | 35 | 2.1 | 15.5 | 37.8 | 21.0 |
| Hardin | 43.1 | 4 | 3.1 | 2.1 | 38 | 2.3 | 14.6 | 39.1 | 21.5 |
| Sibley | 40.0 | 7 | 09/10.5* | 2.0 | 34 | 2.1 | 17.2 | 39.3 | 22.0 |
| A85-192034 | 44.9 | 3 | 4.2 | 1.3 | 34 | 1.8 | 16.6 | 40.4 | 21.0 |
| M81-382 | 40.0 | 7 | 0.1 | 1.5 | 36 | 2.6 | 19.3 | 42.0 | 20.0 |
| M81-384 | 45.5 | 2 | 5.4 | 1.7 | 36 | 1.9 | 17.7 | 39.1 | 21.0 |
| M82-106 | 42.2 | 5 | 1.6 | 1.4 | 33 | 2.3 | 15.7 | 40.9 | 21.6 |
| M82-559 | 41.3 | 6 | -0.3 | 1.3 | 30 | 2.1 | 17.3 | 41.2 | 20.8 |

* 119.2 Days after planting

### 1986-1988 3-YEAR MEAN

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| No. of Tests | 43 | 43 | 37 | 42 | 43 | 38 | 40 | 14 | 14 |
| Strain | | | | | | | | | |
| Dawson (0) | 38.3 | 4 | -7.0 | 1.8 | 30 | 2.2 | 15.5 | 39.3 | 21.5 |
| Hardin | 45.0 | 1 | 3.5 | 2.3 | 38 | 2.2 | 14.5 | 39.4 | 20.9 |
| Sibley | 42.0 | 3 | 09/13.9* | 2.1 | 34 | 2.0 | 17.3 | 39.7 | 21.4 |
| M81-382 | 42.2 | 2 | 0.4 | 1.5 | 36 | 2.5 | 19.5 | 42.1 | 19.7 |

* 120.4 Days after planting

## UNIFORM TEST I, 1988

### YIELD (bu/a)

| Strain | Mean 15 Tests | Kanawha IA | Nashua IA | Royal IA | Lafayette IN | Britton MI | Saginaw MI |
|---|---|---|---|---|---|---|---|
| Dawson (0) | 30.8 | 32.4 | 27.8 | 47.0 | 32.4 | 33.7 | 59.6 |
| Elgin 87 (II) | 41.9 | 42.7 | 33.4 | 47.4 | 37.8 | 43.8 | 63.6 |
| Hardin | 38.7 | 45.7 | 28.4 | 53.3 | 34.3 | 34.7 | 61.8 |
| Sibley (I) | 36.1 | 39.5 | 28.8 | 50.0 | 35.9 | 35.5 | 56.3 |
| A85-192034 | 40.1 | 45.8 | 32.2 | 51.0 | 38.4 | 48.7 | 59.7 |
| A86-101009 | 38.5 | 48.8 | 32.6 | 52.5 | 36.4 | 37.1 | 62.3 |
| M81-382 | 35.8 | 40.4 | 29.2 | 46.1 | 34.9 | 35.9 | 54.7 |
| M81-384 | 40.3 | 43.7 | 32.4 | 53.8 | 37.2 | 39.3 | 66.3 |
| M82-106 | 37.2 | 45.3 | 31.4 | 46.6 | 39.3 | 35.4 | 57.0 |
| M82-559 | 35.3 | 37.2 | 30.7 | 53.1 | 39.5 | 37.0 | 59.4 |
| M83-108 | 39.6 | 44.1 | 34.3 | 47.9 | 44.3 | 41.6 | 60.8 |
| M83-357 | 34.1 | 37.7 | 26.1 | 49.9 | 34.2 | 35.1 | 55.3 |
| M83-504 | 35.1 | 41.6 | 28.1 | 50.7 | 38.2 | 40.9 | 60.3 |
| M83-767 | 31.0 | 38.5 | 29.7 | 49.0 | 34.0 | 32.0 | 61.7 |
| M83-792 | 32.7 | 37.9 | 28.4 | 50.9 | 31.6 | 39.2 | 57.9 |
| M83-819 | 32.3 | 36.5 | 28.9 | 45.1 | 30.5 | 36.4 | 57.5 |
| M83-830 | 36.7 | 43.4 | 32.3 | 51.0 | 36.2 | 48.0 | 62.9 |
| M83-899 | 41.6 | 45.7 | 31.8 | 48.0 | 42.6 | 44.7 | 59.6 |
| C.V. (%) | | 11.1 | 12.6 | 6.1 | 8.6 | 12.2 | 7.8 |
| L.S.D. (5%) | | 7.6 | 6.2 | 4.8 | 5.2 | 6.7 | ns |
| Row Sp. (In.) | | 27 | 27 | 27 | 24 | 20 | 20 |
| Rows/Plot | | 4 | 4 | 4 | 4 | 4 | 4 |
| Reps | | 3 | 3 | 3 | 3 | 4 | 4 |

## UNIFORM TEST I, 1988

### YIELD (bu/a)

| Lamber-ton MN | Waseca MN | Mead NE | Inwood Ont. | London Ont. | State College PA | Brook-ings SD | Wilmot SD | Arling-ton WI |
|---|---|---|---|---|---|---|---|---|
| 12.8 | 15.9 | 20.8 | 36.9 | 32.5 | 26.1 | 27.8 | 26.4 | 29.3 |
| 16.2 | 40.8 | 48.0 | 50.6 | 46.2 | 45.3 | 36.7 | 37.8 | 37.6 |
| 23.1 | 25.3 | 35.8 | 56.6 | 38.9 | 41.5 | 32.4 | 32.8 | 35.8 |
| 18.0 | 28.4 | 30.7 | 42.6 | 36.1 | 40.4 | 30.0 | 33.3 | 36.6 |
| 21.7 | 32.6 | 39.8 | 48.0 | 39.8 | 38.5 | 34.9 | 33.8 | 36.8 |
| 17.8 | 29.0 | 31.0 | 53.0 | 34.0 | 35.2 | 35.3 | 38.1 | 35.1 |
| 15.5 | 32.8 | 31.6 | 52.5 | 30.8 | 30.8 | 33.1 | 34.1 | 35.3 |
| 17.1 | 33.8 | 41.5 | 55.4 | 36.7 | 41.8 | 35.1 | 34.7 | 36.2 |
| 17.2 | 23.3 | 28.0 | 56.4 | 34.4 | 38.5 | 34.5 | 37.6 | 32.8 |
| 12.7 | 15.1 | 30.2 | 51.6 | 34.5 | 33.3 | 28.4 | 34.2 | 33.1 |
| 18.1 | 31.5 | 38.6 | 51.2 | 36.8 | 42.0 | 36.6 | 28.2 | 38.1 |
| 14.7 | 8.9 | 25.6 | 53.9 | 37.9 | 34.0 | 29.9 | 36.9 | 32.0 |
| 12.9 | 21.5 | 23.9 | 41.8 | 37.7 | 33.6 | 30.5 | 32.0 | 32.9 |
| 7.9 | 10.2 | 15.4 | 43.8 | 27.6 | 25.8 | 28.9 | 28.1 | 32.2 |
| 11.8 | 15.1 | 18.5 | 42.0 | 32.5 | 32.3 | 28.5 | 32.4 | 32.2 |
| 12.4 | 23.0 | 17.9 | 49.0 | 31.2 | 26.9 | 25.0 | 29.9 | 34.1 |
| 14.5 | 18.7 | 30.9 | 43.2 | 34.9 | 36.0 | 34.7 | 33.2 | 30.3 |
| 21.8 | 42.4 | 45.0 | 56.3 | 36.6 | 41.0 | 34.3 | 36.1 | 38.3 |
| 21.7 | 16.8 | 13.0 | 12.6 | 19.0 | 10.1 | 9.5 | 16.9 | 8.6 |
| 5.6 | 7.0 | 6.6 | 10.2 | ns | 6.0 | 5.0 | ns | 4.7 |
| 10 | 10 | 30 | 24 | 14.8 | 30 | 30 | 30 | 30 |
| 10 | 10 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 3 | 3 | 3 | 2 | 4 | 3 | 3 | 3 | 3 |

## UNIFORM TEST I, 1988

### YIELD RANK

| Strain | Yield Rank | Kanawha IA | Nashua IA | Royal IA | Lafayette IN | Britton MI | Saginaw MI |
|---|---|---|---|---|---|---|---|
| Dawson (0) | 18 | 18 | 17 | 15 | 16 | 17 | 10 |
| Elgin 87 (II) | 1 | 9 | 2 | 14 | 7 | 4 | 2 |
| Hardin | 6 | 3 | 14 | 2 | 13 | 16 | 5 |
| Sibley (I) | 10 | 12 | 13 | 9 | 11 | 13 | 16 |
| A85-192034 | 4 | 2 | 6 | 5 | 5 | 1 | 9 |
| A86-101009 | 7 | 1 | 3 | 4 | 9 | 9 | 4 |
| M81-382 | 11 | 11 | 11 | 17 | 12 | 12 | 18 |
| M81-384 | 3 | 7 | 4 | 1 | 8 | 7 | 1 |
| M82-106 | 8 | 5 | 8 | 16 | 4 | 14 | 15 |
| M82-559 | 12 | 16 | 9 | 3 | 3 | 10 | 12 |
| M83-108 | 5 | 6 | 1 | 13 | 1 | 5 | 7 |
| M83-357 | 14 | 15 | 18 | 10 | 14 | 15 | 17 |
| M83-504 | 13 | 10 | 16 | 8 | 6 | 6 | 8 |
| M83-767 | 17 | 13 | 10 | 11 | 15 | 18 | 6 |
| M83-792 | 15 | 14 | 14 | 7 | 17 | 8 | 13 |
| M83-819 | 16 | 17 | 12 | 18 | 18 | 11 | 14 |
| M83-830 | 9 | 8 | 5 | 5 | 10 | 2 | 3 |
| M83-899 | 2 | 3 | 7 | 12 | 2 | 3 | 11 |

### MATURITY (date)

| Strain | Mean 13 Tests | | | | | | |
|---|---|---|---|---|---|---|---|
| Dawson (0) | -7.4 | -4 | | | -7 | -1 | -7 |
| Elgin 87 (II) | 7.5 | 9 | | | 7 | 12 | 12 |
| Hardin | 2.6 | 4 | | | 4 | 3 | 9 |
| Sibley (I) | 09/10.2 | 09/01 | | | 09/05 | 09/05 | 09/19 |
| A85-192034 | 4.2 | 7 | | | 2 | 11 | 10 |
| A86-101009 | 3.8 | 7 | | | 3 | 6 | 7 |
| M81-382 | -0.1 | 0 | | | -2 | 3 | 0 |
| M81-384 | 4.7 | 6 | | | 5 | 9 | 10 |
| M82-106 | 1.5 | 3 | | | -1 | 4 | 3 |
| M82-559 | 0.2 | 1 | | | 2 | 1 | 2 |
| M83-108 | 4.5 | 8 | | | 5 | 9 | 8 |
| M83-357 | 2.8 | 3 | | | 5 | 5 | 7 |
| M83-504 | 2.8 | 2 | | | -1 | 6 | 9 |
| M83-767 | -3.4 | -6 | | | 1 | 0 | 1 |
| M83-792 | -1.2 | 0 | | | -2 | 3 | 2 |
| M83-819 | 0.0 | 0 | | | -5 | 1 | 0 |
| M83-830 | 3.5 | 4 | | | 1 | 9 | 6 |
| M83-899 | 4.8 | 5 | | | 5 | 8 | 9 |
| Date Planted | 05/13.9 | 05/11 | | | 05/10 | 05/05 | 05/16 |
| Days to Mature | 119 | 113 | | | 118 | 123 | 126 |

## UNIFORM TEST I, 1988

### YIELD RANK

| Lamber-ton MN | Waseca MN | Mead NE | Inwood Ont. | London Ont. | State College PA | Brook-ings SD | Wilmot SD | Arling-ton WI |
|---|---|---|---|---|---|---|---|---|
| 14 | 14 | 15 | 18 | 14 | 17 | 17 | 18 | 18 |
| 9 | 2 | 1 | 10 | 1 | 1 | 1 | 2 | 3 |
| 1 | 9 | 6 | 1 | 3 | 4 | 10 | 12 | 7 |
| 5 | 8 | 10 | 15 | 9 | 6 | 12 | 10 | 5 |
| 3 | 5 | 4 | 12 | 2 | 7 | 5 | 9 | 4 |
| 6 | 7 | 8 | 6 | 13 | 10 | 3 | 1 | 9 |
| 10 | 4 | 7 | 7 | 17 | 15 | 9 | 8 | 8 |
| 8 | 3 | 3 | 4 | 7 | 3 | 4 | 6 | 6 |
| 7 | 10 | 12 | 2 | 12 | 7 | 7 | 3 | 13 |
| 15 | 15 | 11 | 8 | 11 | 13 | 16 | 7 | 11 |
| 4 | 6 | 5 | 9 | 6 | 2 | 2 | 16 | 2 |
| 11 | 18 | 13 | 5 | 4 | 11 | 13 | 4 | 16 |
| 13 | 12 | 14 | 17 | 5 | 12 | 11 | 14 | 12 |
| 18 | 17 | 18 | 13 | 18 | 18 | 14 | 17 | 14 |
| 17 | 15 | 16 | 16 | 14 | 14 | 15 | 13 | 14 |
| 16 | 11 | 17 | 11 | 16 | 16 | 18 | 15 | 10 |
| 12 | 13 | 9 | 14 | 10 | 9 | 6 | 11 | 17 |
| 2 | 1 | 2 | 3 | 8 | 5 | 8 | 5 | 1 |

### MATURITY (date)

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| -13 | -10 | -6 | -8 | -7 | -14 | -6 | -8 | -5 |
| 7 | 4 | 13 | 6 | 7 | 3 | 9 | 6 | 3 |
| 2 | 0 | 3 | -1 | 2 | 2 | 2 | 1 | 3 |
| 08/30 | 09/07 | 08/30 | 09/23 | 09/19 | 09/28 | 09/07 | 09/08 | 09/13 |
| 4 | 3 | 8 | 0 | 1 | -3 | 7 | 2 | 3 |
| 3 | 4 | 7 | 0 | 0 | -1 | 7 | 3 | 3 |
| -5 | 1 | 2 | -3 | 3 | -2 | 2 | 1 | -1 |
| 2 | -3 | 8 | 3 | 5 | 3 | 6 | 3 | 4 |
| 1 | 1 | 1 | 0 | -1 | 1 | 4 | 2 | 2 |
| -4 | -4 | 1 | -2 | -3 | 1 | 3 | 2 | 3 |
| 3 | 4 | 10 | 1 | 2 | -1 | 7 | 0 | 3 |
| -5 | -2 | 7 | 0 | 0 | 6 | 1 | 3 | 6 |
| -2 | 3 | 3 | 1 | 0 | 6 | 4 | 1 | 4 |
| -15 | -8 | -2 | -2 | -4 | -2 | 0 | 0 | -7 |
| -4 | -3 | -5 | -3 | 0 | 0 | 0 | -1 | -3 |
| 5 | 3 | -2 | -1 | -1 | -1 | 1 | 0 | 0 |
| 0 | 4 | 6 | 0 | 0 | 3 | 6 | 3 | 4 |
| 4 | 4 | 7 | 3 | 1 | 4 | 5 | 3 | 4 |
| 05/04 | 05/03 | 05/11 | 05/23 | 05/15 | 05/27 | 05/17 | 05/26 | 05/13 |
| 118 | 127 | 111 | 123 | 127 | 124 | 113 | 105 | 123 |

## UNIFORM TEST I, 1988

### LODGING (score)

| Strain | Mean 14 Tests | Kanawha IA | Nashua IA | Royal IA | Lafayette IN | Britton MI | Saginaw MI |
|---|---|---|---|---|---|---|---|
| Dawson (0) | 1.3 | 1.3 | 1.3 | 1.8 | 1.0 | 1.3 | 3.3 |
| Elgin 87 (II) | 1.5 | 1.4 | 1.1 | 1.8 | 1.5 | 1.8 | 3.3 |
| Hardin | 1.9 | 2.3 | 2.2 | 3.1 | 1.3 | 2.0 | 4.0 |
| Sibley (I) | 1.6 | 1.6 | 1.4 | 3.0 | 1.2 | 2.0 | 3.3 |
| A85-192034 | 1.3 | 1.2 | 1.0 | 1.4 | 1.0 | 1.8 | 2.8 |
| A86-101009 | 1.2 | 1.3 | 1.1 | 1.6 | 1.0 | 1.0 | 2.0 |
| M81-382 | 1.3 | 1.6 | 1.3 | 2.0 | 1.0 | 1.3 | 2.8 |
| M81-384 | 1.4 | 1.3 | 1.2 | 2.7 | 1.0 | 1.5 | 3.3 |
| M82-106 | 1.2 | 1.2 | 1.0 | 1.4 | 1.0 | 1.3 | 2.3 |
| M82-559 | 1.2 | 1.3 | 1.1 | 1.4 | 1.0 | 1.3 | 2.0 |
| M83-108 | 1.2 | 1.5 | 1.1 | 1.7 | 1.0 | 1.3 | 2.0 |
| M83-357 | 1.2 | 1.4 | 1.2 | 1.8 | 1.0 | 1.0 | 2.8 |
| M83-504 | 1.3 | 1.3 | 1.3 | 2.1 | 1.0 | 1.3 | 2.8 |
| M83-767 | 1.2 | 1.2 | 1.1 | 1.8 | 1.3 | 1.0 | 2.3 |
| M83-792 | 1.3 | 1.5 | 1.1 | 2.0 | 1.0 | 2.0 | 2.8 |
| M83-819 | 1.1 | 1.2 | 1.1 | 1.3 | 1.0 | 1.3 | 1.8 |
| M83-830 | 1.1 | 1.2 | 1.0 | 1.5 | 1.0 | 1.3 | 2.0 |
| M83-899 | 1.6 | 1.9 | 1.6 | 2.9 | 1.5 | 1.5 | 3.8 |

### PLANT HEIGHT (inches)

| Strain | Mean 15 Tests | | | | | | |
|---|---|---|---|---|---|---|---|
| Dawson (0) | 26 | 34 | 34 | 32 | 27 | 28 | 41 |
| Elgin 87 (II) | 31 | 35 | 33 | 38 | 32 | 31 | 43 |
| Hardin | 34 | 46 | 42 | 46 | 35 | 35 | 46 |
| Sibley (I) | 31 | 37 | 38 | 38 | 33 | 33 | 45 |
| A85-192034 | 31 | 36 | 36 | 42 | 32 | 37 | 46 |
| A86-101009 | 31 | 40 | 38 | 39 | 31 | 33 | 46 |
| M81-382 | 32 | 42 | 37 | 40 | 34 | 34 | 47 |
| M81-384 | 32 | 40 | 37 | 42 | 32 | 36 | 47 |
| M82-106 | 30 | 37 | 36 | 39 | 30 | 32 | 43 |
| M82-559 | 27 | 33 | 34 | 35 | 28 | 32 | 42 |
| M83-108 | 32 | 41 | 38 | 44 | 35 | 35 | 48 |
| M83-357 | 30 | 40 | 37 | 39 | 32 | 33 | 45 |
| M83-504 | 29 | 37 | 35 | 38 | 30 | 34 | 44 |
| M83-767 | 27 | 40 | 36 | 35 | 30 | 31 | 44 |
| M83-792 | 30 | 37 | 37 | 40 | 33 | 36 | 46 |
| M83-819 | 27 | 37 | 33 | 33 | 27 | 30 | 43 |
| M83-830 | 28 | 35 | 32 | 34 | 29 | 33 | 43 |
| M83-899 | 36 | 46 | 43 | 45 | 38 | 43 | 52 |

## UNIFORM TEST I, 1988

### LODGING (score)

| Lamber-ton MN | Waseca MN | Mead NE | Inwood Ont. | London Ont. | State College PA | Brook-ings SD | Wilmot SD | Arling-ton WI |
|---|---|---|---|---|---|---|---|---|
| 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | | 1.0 |
| 1.0 | 1.0 | 1.0 | 1.3 | 1.0 | 2.3 | 1.0 | | 1.2 |
| 1.0 | 1.0 | 1.0 | 1.7 | 1.0 | 2.7 | 1.0 | | 1.7 |
| 1.0 | 1.0 | 1.0 | 1.3 | 1.0 | 2.0 | 1.0 | | 1.2 |
| 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | | 1.3 |
| 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | | 1.2 |
| 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | | 1.2 |
| 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | | 1.0 |
| 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | | 1.2 |
| 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | | 1.3 |
| 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | | 1.3 |
| 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | | 1.2 |
| 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | | 1.0 |
| 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | | 1.2 |
| 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | | 1.2 |
| 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | | 1.0 |
| 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | | 1.0 |
| 1.0 | 1.3 | 1.0 | 1.0 | 1.0 | 1.7 | 1.0 | | 1.2 |

### PLANT HEIGHT (inches)

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 17 | 14 | 21 | 23 | 23 | 21 | 24 | 26 | 28 |
| 20 | 22 | 30 | 30 | 28 | 28 | 27 | 31 | 33 |
| 22 | 19 | 27 | 32 | 30 | 31 | 31 | 35 | 38 |
| 19 | 19 | 26 | 28 | 27 | 31 | 28 | 27 | 35 |
| 19 | 20 | 28 | 30 | 28 | 27 | 27 | 32 | 32 |
| 20 | 18 | 27 | 29 | 25 | 27 | 29 | 33 | 30 |
| 20 | 19 | 25 | 32 | 26 | 26 | 26 | 31 | 35 |
| 19 | 20 | 27 | 33 | 27 | 28 | 28 | 29 | 32 |
| 20 | 18 | 23 | 31 | 24 | 27 | 26 | 31 | 32 |
| 19 | 14 | 20 | 25 | 23 | 22 | 22 | 26 | 30 |
| 20 | 20 | 30 | 29 | 27 | 28 | 28 | 28 | 34 |
| 19 | 15 | 23 | 29 | 25 | 24 | 25 | 31 | 32 |
| 18 | 17 | 20 | 26 | 27 | 23 | 24 | 26 | 32 |
| 16 | 13 | 18 | 24 | 22 | 21 | 25 | 25 | 32 |
| 17 | 17 | 23 | 28 | 26 | 25 | 25 | 30 | 33 |
| 17 | 17 | 19 | 26 | 22 | 23 | 23 | 23 | 30 |
| 16 | 14 | 20 | 26 | 23 | 24 | 26 | 27 | 31 |
| 23 | 22 | 33 | 33 | 29 | 30 | 32 | 39 | 33 |

## UNIFORM TEST I, 1988

### SEED QUALITY (score)

| Strain | Mean 15 Tests | Kanawha IA | Nashua IA | Royal IA | Lafayette IN | Britton MI | Saginaw MI |
|---|---|---|---|---|---|---|---|
| Dawson (0) | 2.7 | 2.4 | 3.3 | 3.2 | 3.0 | 2.8 | 1.0 |
| Elgin 87 (II) | 2.1 | 2.1 | 2.6 | 2.3 | 1.5 | 1.3 | 1.0 |
| Hardin | 2.5 | 3.0 | 3.6 | 3.4 | 2.5 | 2.3 | 1.0 |
| Sibley (I) | 2.2 | 2.1 | 2.2 | 2.0 | 2.0 | 1.8 | 1.0 |
| A85-192034 | 1.8 | 1.3 | 2.4 | 1.6 | 1.5 | 1.0 | 1.0 |
| A86-101009 | 2.4 | 2.2 | 3.8 | 1.3 | 2.0 | 2.0 | 1.0 |
| M81-382 | 3.1 | 4.2 | 4.5 | 4.0 | 3.5 | 2.5 | 1.0 |
| M81-384 | 1.9 | 1.7 | 1.8 | 1.2 | 2.0 | 1.0 | 1.0 |
| M82-106 | 2.4 | 2.6 | 3.5 | 2.3 | 2.0 | 2.3 | 1.0 |
| M82-559 | 2.2 | 2.0 | 1.2 | 2.5 | 2.0 | 1.5 | 1.0 |
| M83-108 | 2.3 | 2.7 | 3.0 | 3.3 | 2.5 | 1.0 | 1.0 |
| M83-357 | 2.9 | 4.3 | 4.3 | 4.1 | 2.5 | 2.5 | 1.0 |
| M83-504 | 2.4 | 2.3 | 2.7 | 2.2 | 2.5 | 1.5 | 1.0 |
| M83-767 | 2.4 | 2.5 | 2.8 | 3.1 | 2.0 | 2.5 | 1.0 |
| M83-792 | 2.6 | 2.8 | 3.2 | 2.7 | 3.0 | 1.8 | 1.0 |
| M83-819 | 2.2 | 2.0 | 1.4 | 1.2 | 2.0 | 1.5 | 1.0 |
| M83-830 | 2.4 | 3.1 | 3.3 | 2.1 | 3.0 | 1.3 | 1.0 |
| M83-899 | 2.2 | 2.2 | 2.5 | 2.4 | 2.0 | 1.0 | 1.0 |

### SEED SIZE (g/100)

| Strain | Mean 15 Tests | | | | | | |
|---|---|---|---|---|---|---|---|
| Dawson (0) | 15.4 | 15.0 | 14.6 | 16.8 | 12.9 | 14.0 | 17.4 |
| Elgin 87 (II) | 15.1 | 14.6 | 13.4 | 15.5 | 11.5 | 14.2 | 17.8 |
| Hardin | 14.4 | 13.9 | 12.9 | 16.0 | 12.8 | 13.6 | 15.2 |
| Sibley (I) | 16.8 | 15.8 | 14.8 | 18.9 | 14.1 | 15.4 | 20.4 |
| A85-192034 | 16.6 | 16.1 | 13.6 | 17.8 | 12.3 | 16.7 | 19.4 |
| A86-101009 | 16.3 | 16.6 | 14.6 | 16.9 | 13.8 | 14.8 | 20.1 |
| M81-382 | 18.8 | 19.4 | 15.0 | 19.9 | 14.6 | 18.3 | 21.9 |
| M81-384 | 17.6 | 17.3 | 15.6 | 17.7 | 13.3 | 17.1 | 19.6 |
| M82-106 | 15.5 | 15.3 | 14.1 | 16.3 | 12.1 | 14.7 | 17.7 |
| M82-559 | 17.0 | 16.5 | 15.0 | 17.7 | 13.6 | 14.5 | 19.5 |
| M83-108 | 18.6 | 18.6 | 15.1 | 18.2 | 16.5 | 17.2 | 19.9 |
| M83-357 | 17.3 | 17.6 | 15.2 | 16.5 | 15.0 | 14.6 | 19.8 |
| M83-504 | 18.2 | 18.0 | 16.1 | 16.9 | 15.2 | 17.7 | 20.0 |
| M83-767 | 16.2 | 15.9 | 14.6 | 18.2 | 13.8 | 14.6 | 20.1 |
| M83-792 | 15.8 | 15.9 | 13.7 | 16.8 | 12.2 | 15.9 | 18.3 |
| M83-819 | 18.0 | 18.1 | 17.2 | 18.9 | 14.2 | 16.4 | 21.8 |
| M83-830 | 17.3 | 17.0 | 14.6 | 17.2 | 13.0 | 16.8 | 19.4 |
| M83-899 | 15.7 | 14.9 | 13.6 | 15.4 | 13.1 | 15.3 | 15.8 |

## UNIFORM TEST I, 1988

### SEED QUALITY (score)

| Lamber-ton MN | Waseca MN | Mead NE | Inwood Ont. | London Ont. | State College PA | Brook-ings SD | Wilmot SD | Arling-ton WI |
|---|---|---|---|---|---|---|---|---|
| 4.3 | 4.3 | 2.8 | 2.0 | 1.5 | 2.5 | 3.0 | 2.0 | 3.0 |
| 4.7 | 4.0 | 2.0 | 1.0 | 1.5 | 2.0 | 2.0 | 1.0 | 2.0 |
| 3.7 | 4.3 | 2.5 | 1.0 | 1.5 | 2.0 | 2.0 | 2.0 | 3.0 |
| 4.0 | 3.7 | 2.3 | 2.0 | 1.5 | 2.0 | 3.0 | 2.0 | 1.0 |
| 3.7 | 3.3 | 2.0 | 1.0 | 1.5 | 2.0 | 2.0 | 2.0 | 1.0 |
| 4.3 | 4.3 | 2.3 | 2.0 | 1.5 | 2.0 | 2.0 | 2.0 | 3.0 |
| 4.7 | 4.3 | 3.2 | 2.0 | 1.5 | 2.5 | 4.0 | 2.0 | 2.0 |
| 3.7 | 3.7 | 2.2 | 1.0 | 1.5 | 2.0 | 2.0 | 2.0 | 1.0 |
| 4.3 | 4.0 | 2.5 | 1.0 | 1.5 | 1.5 | 3.0 | 2.0 | 2.0 |
| 3.7 | 4.3 | 2.5 | 2.0 | 1.5 | 2.0 | 3.0 | 2.0 | 2.0 |
| 3.7 | 4.0 | 2.5 | 1.0 | 1.5 | 2.0 | 2.0 | 3.0 | 1.0 |
| 4.3 | 4.3 | 3.8 | 1.0 | 2.0 | 2.0 | 4.0 | 2.0 | 2.0 |
| 4.3 | 4.0 | 3.0 | 2.0 | 1.5 | 2.0 | 3.0 | 2.0 | 2.0 |
| 3.3 | 4.0 | 3.0 | 1.0 | 1.5 | 2.0 | 3.0 | 3.0 | 2.0 |
| 4.3 | 4.3 | 3.3 | 2.0 | 2.0 | 2.0 | 3.0 | 2.0 | 2.0 |
| 4.7 | 4.0 | 2.5 | 2.0 | 2.0 | 2.0 | 4.0 | 1.0 | 1.0 |
| 4.3 | 4.0 | 2.5 | 1.0 | 2.0 | 2.0 | 3.0 | 1.0 | 3.0 |
| 4.0 | 3.7 | 2.0 | 1.0 | 1.5 | 2.0 | 3.0 | 2.0 | 2.0 |

### SEED SIZE (g/100)

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 14.5 | 14.3 | 20.5 | 14.0 | 14.2 | 15.4 | 17.0 | 18.9 | 11.7 |
| 12.5 | 14.3 | 16.2 | 14.7 | 15.8 | 18.1 | 17.3 | 16.9 | 13.5 |
| 13.5 | 14.6 | 17.6 | 14.1 | 13.3 | 16.5 | 15.7 | 14.3 | 12.4 |
| 15.0 | 17.2 | 18.5 | 15.9 | 15.8 | 18.5 | 18.6 | 18.5 | 15.3 |
| 16.7 | 18.0 | 18.4 | 15.1 | 16.5 | 18.5 | 17.9 | 17.1 | 14.5 |
| 14.5 | 15.9 | 18.2 | 15.1 | 15.6 | 19.4 | 18.6 | 17.5 | 13.5 |
| 17.2 | 19.8 | 22.0 | 18.3 | 18.8 | 19.8 | 22.0 | 17.7 | 17.0 |
| 16.0 | 18.1 | 20.8 | 16.8 | 18.2 | 20.0 | 19.2 | 18.7 | 16.3 |
| 14.4 | 16.4 | 16.8 | 15.2 | 14.3 | 17.1 | 18.3 | 16.7 | 13.5 |
| 15.7 | 18.4 | 19.9 | 15.8 | 15.6 | 19.9 | 19.7 | 18.5 | 14.8 |
| 18.8 | 19.4 | 20.0 | 16.8 | 18.6 | 21.5 | 21.2 | 20.5 | 17.0 |
| 13.8 | 17.6 | 21.9 | 16.3 | 16.3 | 20.2 | 20.2 | 20.1 | 13.8 |
| 17.0 | 19.4 | 19.8 | 17.9 | 16.4 | 21.8 | 20.2 | 20.0 | 16.3 |
| 12.7 | 13.0 | 19.3 | 17.1 | 15.7 | 18.8 | 18.0 | 18.9 | 12.5 |
| 14.2 | 15.6 | 16.0 | 15.7 | 15.0 | 18.6 | 18.4 | 17.9 | 13.4 |
| 14.7 | 16.1 | 20.6 | 16.3 | 17.7 | 20.0 | 20.7 | 21.4 | 16.0 |
| 16.9 | 19.2 | 19.8 | 16.3 | 16.3 | 19.2 | 19.8 | 18.6 | 14.7 |
| 16.0 | 18.3 | 17.0 | 14.2 | 14.4 | 19.5 | 18.2 | 16.2 | 13.9 |

## UNIFORM TEST I, 1988

### PROTEIN (%)

| Strain | Mean 5 Tests | Royal IA | Lamberton MN | London Ont. | Brookings SD | Arlington WI |
|---|---|---|---|---|---|---|
| Dawson (0) | 39.2 | 38.7 | 39.8 | 41.0 | 38.4 | 38.3 |
| Elgin 87 (II) | 37.4 | 37.2 | 38.3 | 38.2 | 38.2 | 35.0 |
| Hardin | 39.0 | 41.2 | 38.6 | 39.0 | 39.7 | 36.3 |
| Sibley (I) | 38.9 | 40.0 | 39.7 | 39.5 | 39.5 | 35.9 |
| A85-192034 | 40.4 | 40.0 | 41.8 | 42.1 | 40.5 | 37.8 |
| A86-101009 | 40.2 | 39.5 | 41.3 | 43.6 | 39.1 | 37.6 |
| M81-382 | 41.4 | 42.2 | 42.1 | 39.8 | 42.4 | 40.4 |
| M81-384 | 38.6 | 39.1 | 39.0 | 40.0 | 38.2 | 36.7 |
| M82-106 | 40.8 | 41.2 | 41.6 | 41.7 | 41.1 | 38.4 |
| M82-559 | 41.1 | 42.0 | 40.9 | 42.0 | 41.0 | 39.5 |
| M83-108 | 38.9 | 39.4 | 39.8 | 39.6 | 39.7 | 36.2 |
| M83-357 | 39.5 | 38.6 | 40.5 | 40.1 | 39.7 | 38.4 |
| M83-504 | 39.9 | 40.6 | 41.1 | 41.0 | 40.5 | 36.3 |
| M83-767 | 39.6 | 39.4 | 40.2 | 40.8 | 38.9 | 38.7 |
| M83-792 | 39.9 | 40.2 | 41.2 | 40.6 | 39.6 | 37.7 |
| M83-819 | 41.4 | 41.1 | 42.9 | 41.4 | 42.0 | 39.7 |
| M83-830 | 40.2 | 39.7 | 40.8 | 41.1 | 40.1 | 39.5 |
| M83-899 | 37.2 | 38.3 | 38.0 | 38.7 | 38.1 | 33.0 |

### OIL (%)

| Strain | Mean 5 Tests | | | | | |
|---|---|---|---|---|---|---|
| Dawson (0) | 22.5 | 23.2 | 23.1 | 20.7 | 23.2 | 22.4 |
| Elgin 87 (II) | 21.9 | 22.5 | 22.4 | 20.4 | 20.9 | 23.2 |
| Hardin | 22.4 | 22.2 | 23.5 | 20.6 | 21.8 | 23.7 |
| Sibley (I) | 23.0 | 23.5 | 22.6 | 20.6 | 22.9 | 25.3 |
| A85-192034 | 21.7 | 22.1 | 22.3 | 19.8 | 21.2 | 23.0 |
| A86-101009 | 20.7 | 21.7 | 21.1 | 18.2 | 20.9 | 21.7 |
| M81-382 | 20.7 | 20.5 | 21.5 | 19.7 | 20.6 | 21.3 |
| M81-384 | 22.1 | 22.2 | 23.3 | 20.3 | 22.1 | 22.6 |
| M82-106 | 22.4 | 22.7 | 23.1 | 19.7 | 22.0 | 24.7 |
| M82-559 | 21.5 | 21.5 | 22.3 | 20.0 | 21.2 | 22.5 |
| M83-108 | 22.2 | 22.0 | 23.2 | 20.4 | 21.6 | 23.6 |
| M83-357 | 22.0 | 22.7 | 22.8 | 20.4 | 21.9 | 22.2 |
| M83-504 | 22.2 | 22.3 | 22.9 | 20.3 | 22.0 | 23.5 |
| M83-767 | 21.9 | 22.7 | 21.2 | 20.9 | 22.1 | 22.4 |
| M83-792 | 22.2 | 22.8 | 22.4 | 20.4 | 22.0 | 23.2 |
| M83-819 | 21.4 | 21.9 | 22.2 | 19.2 | 21.1 | 22.6 |
| M83-830 | 21.7 | 21.7 | 22.8 | 20.0 | 21.8 | 22.1 |
| M83-899 | 22.3 | 22.3 | 23.6 | 19.9 | 21.8 | 23.8 |

## UNIFORM PRELIMINARY TEST I, 1988

| Strain | Parentage | Generation Composited | Unique Traits |
|---|---|---|---|
| Dawson (0) | Evans x M63-217Y | F5 | |
| Elgin 87 (II) | Elgin (5) x Williams 82 | BC4 F2 | |
| Hardin | Corsoy (3) x Cutler 71 | F5 | |
| Sibley (I) | M68-256 x Hodgson | F5 | |
| A87-187006 | BSR 101 x A81-151026 | F5 | Fe Chlor. Resis. |
| A87-187007 | BSR 101 x A81-151026 | F5 | Fe Chlor. Resis. |
| A87-187020 | Jacques J103 x A81-151026 | F5 | Fe Chlor. Resis. |
| A87-187026 | A82-106088 x A81-157007 | F5 | Fe Chlor. Resis. |
| A87-196014 | BSR 101 x A80-344003 | F5 | BSR Resis. |
| A87-196025 | A80-244036 x Asgrow A1937 | F5 | |
| A87-196029 | AP6TW2YTF4C3 | F5 | |
| A87-196030 | AP6TW2YTF4C3 | F5 | |
| A87-198005 | A80-244003 x Harper | F5 | |
| A87-198015 | Hack x A81-157024 | F5 | |
| E86237 | ProSoy PS104 x HW8028 | F3 | |
| E86300 | A80-244036 x A79-232026 | F3 | |
| E86367 | Century x A80-144024 | F3 | |
| HM8843 | Gold Tag 1250 x Williams 82 | F6 | Rps1-k |
| LN85-874 | Fayette x LN80-10398 | F5 | SCN 3,4 Resis. |
| LN85-6210 | LNX8132 x A80-244003 | F5 | |
| LN85-7317 | LNX8138 x A80-244003 | F5 | PR 1,3 Resis. |
| LN85-10524 | LNX8179 x A80-244003 | F5 | PR 1,3 Resis. |
| M84-341 | M74-155 x M74-403 | F5 | Rps1 |
| M84-345 | M74-155 x M74-403 | F5 | Het. Rps1 |
| M84-384 | M74-438 x M76-100 | F5 | Rps1 |
| M84-557 | Hardin x PI 297.503 | F5 | Rps1 |
| M84-747 | M75-274 x M76-151 | F5 | Rps1 |
| M84-855 | M76-148 x Glenwood | F5 | Rps1 |
| M84-916 | A79-136012 x Dawson | F5 | Rps1 |
| M84-949 | M72-3 x M75-15 | F5 | Rps1 |
| M84-1023 | M71-148 x M76-151 | F5 | Rps1 |
| M84-1034 | M75-2 x K1062 | F5 | Rps1 |
| U85-63023 | Nebsoy x Mead | F6 | |
| U85-66042 | Wells II x Williams 79 | F6 | |

## UNIFORM PRELIMINARY TEST I, 1988

### DESCRIPTIVE DATA

| Strain | Descriptive Code | Chlorosis Score Ames | Shattering Score Manhattan | Shattering Score Brookings |
|---|---|---|---|---|
| Dawson (0) | PGBSYY | 1.7 | 1 | 1.5 |
| Elgin 87 (II) | PTBSYBl | 3.7 | 1 | 1.0 |
| Hardin | PGBSYY | 3.3 | 1 | 1.5 |
| Sibley (I) | WGBDYY | 4.0 | 1 | 1.5 |
| A87-187006 | PTBSYBl | 2.3 | 2 | 1.0 |
| A87-187007 | PG+TBSYBf | 2.3 | 2 | 1.0 |
| A87-187020 | PG+TBSYBf+Br | 2.3 | 1 | 1.5 |
| A87-187026 | PGBDYIb | 2.3 | 1 | 1.0 |
| A87-196014 | WGTSYBf | 3.8 | 2 | 1.5 |
| A87-196025 | PG+TBDYBf | 4.3 | 2 | 1.5 |
| A87-196029 | PGBDYBf+Ib | 4.0 | 1 | 1.0 |
| A87-196030 | PTBSYGr | 3.5 | 2 | 1.0 |
| A87-198005 | PTBSYBl | 4.5 | 1 | 1.0 |
| A87-198015 | WGBSYBf | 4.2 | 2 | 1.5 |
| E86237 | P+WGBSYH | 3.5 | 3 | 1.5 |
| E86300 | P+WTBSYH | 4.3 | 1 | 1.0 |
| E86367 | PTBSYBl | 3.5 | 2 | 1.5 |
| HM8843 | PGBSYBf+Ib | 4.8 | 3 | 1.5 |
| LN85-874 | PTTSYBl | 3.0 | 2 | 1.0 |
| LN85-6210 | WTBSYBl | 5.0 | 2 | 1.0 |
| LN85-7317 | PTBSYBl | 4.7 | 2 | 1.0 |
| LN85-10524 | WGTSYBf | 4.0 | 2 | 1.0 |
| M84-341 | PGTDYBf | 1.8 | 2 | 1.5 |
| M84-345 | P+WGBDYBf+Ib | 1.8 | 3 | 1.0 |
| M84-384 | PGTDYY | 2.0 | 2 | 1.5 |
| M84-557 | PGTSYY | 4.3 | 1 | 1.5 |
| M84-747 | WGBDYBf | 2.8 | 1 | 1.0 |
| M84-855 | WGBDYBf | 3.0 | 1 | 1.0 |
| M84-916 | WGBDYBf | 3.3 | 2 | 1.5 |
| M84-949 | PGBDYBf | 2.8 | 2 | 1.5 |
| M84-1023 | WGBSYBf | 2.7 | 1 | 1.0 |
| M84-1034 | WGBDYBf | 2.7 | 1 | 1.0 |
| U85-63023 | PGBSYIb | 3.3 | 2 | 1.0 |
| U85-66042 | PGBSYIb | 3.0 | 2 | 1.0 |

# UNIFORM PRELIMINARY TEST I, 1988

## DISEASE DATA

| Strain | BSR-Ames Plant n % | BSR-Ames Stem n % | PR Ames Race 4 Reaction | PR Urbana Race 1 | PR Lafayette Race 7 | PS Lafayette a rt | PSB Lafayette n % | SMV a Score |
|---|---|---|---|---|---|---|---|---|
| Dawson (0) | 50 | 13.6 | S | R | S | 2E | 20 | 1 |
| Elgin 87 (II) | 100 | 34.5 | R | R | R | 2E | 12 | 5E |
| Hardin | 70 | 15.3 | S | R | S | 3E | 18 | 1 |
| Sibley (I) | 50 | 7.5 | S | R | S | 2E | 34 | 5E |
| A87-187006 | 100 | 37.4 | S | R | S | 2E | 8 | 4E |
| A87-187007 | 70 | 13.4 | S | R | S | 2E | 20 | 3E |
| A87-187020 | 90 | 19.0 | S | S | S | 3E | 18 | 1 |
| A87-187026 | 80 | 25.6 | S | S | S | 3E | 14 | 2M |
| A87-196014 | 100 | 26.5 | S | R | S | 1 | 18 | 5E |
| A87-196025 | 90 | 25.3 | S | R | S | 2E | 44 | 4E |
| A87-196029 | 90 | 29.7 | S | S | S | 3E | 46 | 3E |
| A87-196030 | 100 | 22.3 | S | S | S | 2E | 36 | 5E |
| A87-198005 | 60 | 13.3 | S | S | S | 2E | 26 | 5E |
| A87-198015 | 90 | 25.0 | S | S | S | 3E | 14 | 1 |
| E86237 | 100 | 45.0 | S | R | H | 2E | 8 | 3E |
| E86300 | 100 | 31.6 | S | H | S | 2E | 26 | 2E |
| E86367 | 100 | 45.5 | S | H | S | 2E | 24 | 5S |
| HM8843 | 90 | 38.4 | R | R | R | 2E | 14 | 2M |
| LN85-874 | 50 | 20.8 | S | S | S |  | 0 | 3E |
| LN85-6210 | 100 | 53.5 | S | S | H | 2E | 4 | 4E |
| LN85-7317 | 100 | 50.6 | R | R | S | 2E | 0 | 5E |
| LN85-10524 | 100 | 58.8 | S | R | R | 2E | 0 | 4E |
| M84-341 | 90 | 25.5 | S | R | S | 3E | 2 | 4E |
| M84-345 | 70 | 18.6 | S | H | S | 2E | 10 | 3E |
| M84-384 | 90 | 34.8 | S | S | S | 2E | 2 | 2E |
| M84-557 | 60 | 27.0 | S | R | S | 2E | 4 | 2M |
| M84-747 | 100 | 35.1 | S | R | S | 3E | 6 | 2M |
| M84-855 | 100 | 56.7 | S | R | S | 3E | 8 | 4E |
| M84-916 | 40 | 14.1 | S | R | S | 2E | 4 | 1 |
| M84-949 | 90 | 29.1 | S | R | S | 2E | 4 | 5E |
| M84-1023 | 90 | 27.3 | S | R | S | 2E | 12 | 1 |
| M84-1034 | 80 | 38.8 | R | R | R | 1 | 20 | 3E |
| U85-63023 | 100 | 30.7 | S | R | S | 1 | 22 | 3E |
| U85-66042 | 90 | 54.1 | S | R | R | 2E | 4 | 2M |

## UNIFORM PRELIMINARY TEST I, 1988

### REGIONAL SUMMARY

| Strain | Yield | Rank | Maturity | Lodging | Plant Height | Seed Quality | Seed Size | Composition Protein | Composition Oil |
|---|---|---|---|---|---|---|---|---|---|
| No. of Tests | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 5 | 5 |
| | bu/a | No. | Date | Score | In. | Score | g/100 | % | % |
| Dawson (0) | 35.4 | 34 | -6.0 | 1.5 | 29 | 2.5 | 15.7 | 38.3 | 23.3 |
| Elgin 87 (II) | 40.4 | 22 | 6.5 | 1.7 | 33 | 2.3 | 15.6 | 37.7 | 22.7 |
| Hardin | 41.9 | 18 | 2.3 | 2.2 | 36 | 2.4 | 14.9 | 38.6 | 23.3 |
| Sibley (I) | 40.0 | 23 | 09/09.3* | 2.1 | 35 | 2.2 | 17.5 | 38.9 | 22.8 |
| A87-187006 | 42.2 | 17 | 7.5 | 1.8 | 38 | 2.6 | 16.5 | 38.8 | 22.0 |
| A87-187007 | 44.8 | 3 | 6.0 | 1.8 | 36 | 2.4 | 15.6 | 38.6 | 22.7 |
| A87-187020 | 46.0 | 1 | 6.8 | 1.4 | 34 | 1.9 | 14.8 | 37.4 | 23.2 |
| A87-187026 | 43.1 | 12 | 2.3 | 1.1 | 26 | 2.0 | 16.9 | 38.7 | 22.6 |
| A87-196014 | 44.6 | 5 | 7.2 | 1.6 | 38 | 2.1 | 15.1 | 37.7 | 22.0 |
| A87-196025 | 43.7 | 10 | 2.2 | 1.9 | 37 | 2.3 | 17.4 | 39.5 | 22.5 |
| A87-196029 | 41.1 | 20 | 2.8 | 1.6 | 33 | 2.0 | 17.1 | 39.1 | 22.0 |
| A87-196030 | 42.3 | 15 | 5.8 | 1.5 | 33 | 1.7 | 15.7 | 39.3 | 22.0 |
| A87-198005 | 44.1 | 7 | 3.2 | 1.5 | 33 | 1.5 | 17.1 | 39.1 | 22.9 |
| A87-198015 | 45.0 | 2 | 5.2 | 1.4 | 33 | 1.8 | 15.8 | 38.9 | 22.9 |
| E86237 | 43.9 | 8 | 3.0 | 1.5 | 36 | 2.5 | 16.3 | 38.0 | 22.9 |
| E86300 | 42.3 | 15 | 3.8 | 2.0 | 32 | 2.2 | 17.0 | 37.5 | 23.2 |
| E86367 | 40.7 | 21 | 5.2 | 1.5 | 34 | 2.1 | 14.6 | 39.0 | 22.2 |
| HM8843 | 38.8 | 28 | 6.2 | 2.2 | 41 | 1.9 | 15.5 | 39.9 | 21.7 |
| LN85-874 | 41.7 | 19 | 3.7 | 1.7 | 33 | 2.0 | 17.3 | 39.2 | 22.1 |
| LN85-6210 | 42.8 | 13 | 4.8 | 1.9 | 36 | 1.5 | 15.5 | 39.1 | 22.1 |
| LN85-7317 | 43.2 | 11 | 7.7 | 1.9 | 38 | 1.7 | 18.2 | 38.2 | 22.2 |
| LN85-10524 | 44.3 | 6 | 6.7 | 1.6 | 34 | 1.5 | 14.4 | 37.3 | 23.1 |
| M84-341 | 38.7 | 29 | -2.5 | 1.4 | 31 | 2.6 | 14.5 | 37.9 | 24.2 |
| M84-345 | 39.4 | 26 | 1.8 | 1.6 | 36 | 2.1 | 16.4 | 38.9 | 23.7 |
| M84-384 | 37.7 | 30 | 0.0 | 1.5 | 29 | 2.6 | 14.8 | 38.1 | 24.0 |
| M84-557 | 37.6 | 31 | 0.2 | 1.7 | 33 | 3.1 | 15.6 | 38.3 | 23.1 |
| M84-747 | 43.8 | 9 | 5.2 | 1.8 | 38 | 3.0 | 17.2 | 37.5 | 23.6 |
| M84-855 | 39.8 | 24 | -2.3 | 1.7 | 35 | 2.5 | 15.8 | 37.6 | 23.7 |
| M84-916 | 44.8 | 3 | 0.0 | 2.0 | 37 | 2.1 | 17.4 | 37.7 | 23.8 |
| M84-949 | 36.7 | 32 | -2.7 | 1.3 | 32 | 2.7 | 15.7 | 37.4 | 24.1 |
| M84-1023 | 39.3 | 27 | -0.5 | 1.4 | 33 | 3.0 | 16.2 | 38.2 | 23.7 |
| M84-1034 | 39.6 | 25 | 1.8 | 1.4 | 30 | 2.3 | 16.6 | 38.1 | 22.7 |
| U85-63023 | 42.4 | 14 | 7.0 | 1.7 | 36 | 2.7 | 18.3 | 38.5 | 21.9 |
| U85-66042 | 36.5 | 33 | 5.8 | 1.5 | 39 | 2.5 | 15.1 | 39.1 | 22.1 |

* 121.8 Days After Planting

## UNIFORM PRELIMINARY TEST I, 1988

### YIELD (bu/a)

| Strain | Mean 7 Tests | Kanawha IA | Royal IA | Saginaw MI | Lamberton MN | Waseca MN | Brookings SD | Arlington WI |
|---|---|---|---|---|---|---|---|---|
| Dawson (0) | 35.4 | 32.6 | 51.1 | 56.7 | 28.5 | 22.3 | 30.2 | 26.6 |
| Elgin 87 (II) | 40.4 | 43.3 | 48.8 | 58.6 | 29.1 | 36.8 | 40.1 | 26.0 |
| Hardin | 41.9 | 41.6 | 54.0 | 63.1 | 30.6 | 31.8 | 36.3 | 36.1 |
| Sibley (I) | 40.0 | 41.1 | 54.7 | 56.6 | 27.9 | 34.7 | 32.8 | 32.2 |
| A87-187006 | 42.2 | 40.6 | 51.4 | 65.6 | 29.6 | 41.1 | 37.7 | 29.4 |
| A87-187007 | 44.8 | 45.4 | 52.9 | 65.3 | 29.6 | 44.8 | 37.6 | 38.1 |
| A87-187020 | 46.0 | 47.3 | 51.6 | 66.0 | 39.1 | 40.3 | 43.4 | 34.3 |
| A87-187026 | 43.1 | 51.3 | 59.0 | 56.1 | 30.1 | 35.8 | 40.1 | 29.1 |
| A87-196014 | 44.6 | 48.4 | 57.6 | 58.7 | 37.3 | 40.3 | 38.6 | 31.3 |
| A87-196025 | 43.7 | 44.8 | 52.0 | 62.1 | 32.4 | 36.4 | 37.8 | 40.7 |
| A87-196029 | 41.1 | 34.8 | 52.4 | 60.5 | 24.9 | 36.7 | 45.8 | 32.7 |
| A87-196030 | 42.3 | 40.6 | 51.1 | 59.8 | 33.3 | 38.3 | 39.0 | 34.2 |
| A87-198005 | 44.1 | 45.9 | 55.6 | 63.9 | 33.3 | 39.7 | 39.6 | 30.5 |
| A87-198015 | 45.0 | 44.9 | 58.6 | 64.4 | 27.9 | 43.3 | 38.8 | 37.4 |
| E86237 | 43.9 | 40.9 | 50.4 | 62.3 | 31.1 | 43.8 | 46.9 | 32.0 |
| E86300 | 42.3 | 36.4 | 52.3 | 60.3 | 30.4 | 33.7 | 45.9 | 36.8 |
| E86367 | 40.7 | 42.4 | 46.4 | 60.4 | 29.3 | 35.3 | 35.5 | 35.9 |
| HM8843 | 38.8 | 38.7 | 45.8 | 51.8 | 27.4 | 39.0 | 35.9 | 33.1 |
| LN85-874 | 41.7 | 47.3 | 54.9 | 56.7 | 33.0 | 35.9 | 35.8 | 28.3 |
| LN85-6210 | 42.8 | 38.4 | 52.3 | 63.0 | 31.4 | 37.7 | 42.8 | 33.8 |
| LN85-7317 | 43.2 | 45.6 | 50.0 | 56.2 | 31.3 | 46.6 | 37.6 | 35.2 |
| LN85-10524 | 44.3 | 48.6 | 53.9 | 62.1 | 33.2 | 38.7 | 34.6 | 39.3 |
| M84-341 | 38.7 | 40.7 | 55.1 | 64.8 | 24.7 | 26.9 | 30.3 | 28.3 |
| M84-345 | 39.4 | 41.3 | 47.6 | 57.8 | 30.1 | 28.0 | 41.4 | 29.7 |
| M84-384 | 37.7 | 38.9 | 53.6 | 62.1 | 25.7 | 25.7 | 30.0 | 27.7 |
| M84-557 | 37.6 | 39.7 | 49.0 | 58.7 | 24.6 | 27.1 | 30.5 | 33.4 |
| M84-747 | 43.8 | 42.9 | 55.2 | 65.4 | 29.4 | 35.2 | 41.4 | 36.9 |
| M84-855 | 39.8 | 40.2 | 49.5 | 56.0 | 28.2 | 27.7 | 51.1 | 26.1 |
| M84-916 | 44.8 | 41.9 | 58.4 | 65.8 | 29.8 | 40.2 | 41.8 | 36.0 |
| M84-949 | 36.7 | 39.7 | 56.3 | 60.7 | 24.4 | 22.9 | 27.9 | 25.3 |
| M84-1023 | 39.3 | 36.1 | 54.4 | 62.1 | 21.9 | 32.6 | 35.4 | 32.5 |
| M84-1034 | 39.6 | 44.2 | 52.6 | 64.0 | 21.3 | 34.2 | 32.5 | 28.7 |
| U85-63023 | 42.4 | 44.7 | 47.5 | 51.8 | 30.7 | 44.9 | 36.7 | 40.4 |
| U85-66042 | 36.5 | 35.5 | 37.3 | 51.6 | 24.1 | 35.6 | 38.6 | 32.5 |
| C.V. (%) | | 10.1 | 6.6 | 6.9 | 14.5 | 14.5 | 17.3 | 14.4 |
| L.S.D. (5%) | | 8.4 | 6.8 | 8.4 | 10.3 | 8.5 | ns | 9.5 |
| Row Sp. (In.) | | 27 | 27 | 20 | 10 | 10 | 30 | 30 |
| Rows/Plot | | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Reps | | 2 | 2 | 2 | 2 | 2 | 2 | 3 |

## UNIFORM PRELIMINARY TEST I, 1988

### YIELD RANK

| Strain | Yield Rank | Kanawha IA | Royal IA | Saginaw MI | Lamberton MN | Waseca MN | Brookings SD | Arlington WI |
|---|---|---|---|---|---|---|---|---|
| Dawson (0) | 34 | 34 | 23 | 26 | 22 | 34 | 32 | 31 |
| Elgin 87 (II) | 22 | 13 | 29 | 24 | 21 | 15 | 10 | 33 |
| Hardin | 18 | 17 | 12 | 10 | 12 | 27 | 22 | 8 |
| Sibley (I) | 23 | 19 | 10 | 28 | 24 | 24 | 28 | 20 |
| A87-187006 | 17 | 22 | 22 | 3 | 17 | 6 | 18 | 25 |
| A87-187007 | 3 | 8 | 15 | 5 | 17 | 3 | 19 | 4 |
| A87-187020 | 1 | 4 | 21 | 1 | 1 | 7 | 5 | 12 |
| A87-187026 | 12 | 1 | 1 | 30 | 14 | 19 | 10 | 26 |
| A87-196014 | 5 | 3 | 4 | 22 | 2 | 7 | 15 | 22 |
| A87-196025 | 10 | 10 | 20 | 13 | 7 | 17 | 17 | 1 |
| A87-196029 | 20 | 33 | 17 | 18 | 28 | 16 | 4 | 17 |
| A87-196030 | 15 | 22 | 23 | 21 | 3 | 13 | 13 | 13 |
| A87-198005 | 7 | 6 | 6 | 9 | 3 | 10 | 12 | 23 |
| A87-198015 | 2 | 9 | 2 | 7 | 24 | 5 | 14 | 5 |
| E86237 | 8 | 20 | 25 | 12 | 10 | 4 | 2 | 21 |
| E86300 | 15 | 30 | 18 | 20 | 13 | 25 | 3 | 7 |
| E86367 | 21 | 15 | 32 | 19 | 20 | 21 | 25 | 10 |
| HM8843 | 28 | 28 | 33 | 33 | 26 | 11 | 23 | 16 |
| LN85-874 | 19 | 4 | 9 | 27 | 6 | 18 | 24 | 29 |
| LN85-6210 | 13 | 29 | 18 | 11 | 8 | 14 | 6 | 14 |
| LN85-7317 | 11 | 7 | 26 | 29 | 9 | 1 | 19 | 11 |
| LN85-10524 | 6 | 2 | 13 | 15 | 5 | 12 | 27 | 3 |
| M84-341 | 29 | 21 | 8 | 6 | 29 | 31 | 31 | 28 |
| M84-345 | 26 | 18 | 30 | 25 | 14 | 28 | 8 | 24 |
| M84-384 | 30 | 27 | 14 | 14 | 27 | 32 | 33 | 30 |
| M84-557 | 31 | 25 | 28 | 23 | 30 | 30 | 30 | 15 |
| M84-747 | 9 | 14 | 7 | 4 | 19 | 22 | 8 | 6 |
| M84-855 | 24 | 24 | 27 | 31 | 23 | 29 | 1 | 32 |
| M84-916 | 3 | 16 | 3 | 2 | 16 | 9 | 7 | 9 |
| M84-949 | 32 | 25 | 5 | 17 | 31 | 33 | 34 | 34 |
| M84-1023 | 27 | 31 | 11 | 16 | 33 | 26 | 26 | 19 |
| M84-1034 | 25 | 12 | 16 | 8 | 34 | 22 | 29 | 27 |
| U85-63023 | 14 | 11 | 31 | 32 | 11 | 2 | 21 | 2 |
| U85-66042 | 33 | 32 | 34 | 34 | 32 | 20 | 15 | 18 |

## UNIFORM PRELIMINARY TEST I, 1988

### MATURITY (date)

| Strain | Mean 6 Tests | Kanawha IA | Royal IA | Saginaw MI | Lamberton MN | Waseca MN | Brookings SD | Arlington WI |
|---|---|---|---|---|---|---|---|---|
| Dawson (0) | -6.0 | -6 | | -8 | -5 | -6 | -9 | -2 |
| Elgin 87 (II) | 6.5 | 8 | | 11 | 7 | 5 | 8 | 0 |
| Hardin | 2.3 | 4 | | 7 | 0 | 2 | 3 | -2 |
| Sibley (I) | 09/09.3 | 09/01 | | 09/20 | 09/03 | 09/06 | 09/06 | 09/20 |
| A87-187006 | 7.5 | 6 | | 10 | 5 | 5 | 9 | 10 |
| A87-187007 | 6.0 | 6 | | 10 | 7 | 4 | 9 | 0 |
| A87-187020 | 6.8 | 6 | | 10 | 8 | 5 | 8 | 4 |
| A87-187026 | 2.3 | 2 | | 7 | 3 | 1 | 1 | 0 |
| A87-196014 | 7.2 | 6 | | 8 | 6 | 7 | 9 | 7 |
| A87-196025 | 2.2 | 2 | | 3 | 5 | -1 | 6 | -2 |
| A87-196029 | 2.8 | 1 | | 9 | 1 | 1 | 7 | -2 |
| A87-196030 | 5.8 | 6 | | 9 | 5 | 4 | 7 | 4 |
| A87-198005 | 3.2 | 4 | | 3 | 2 | 3 | 5 | 2 |
| A87-198015 | 5.2 | 6 | | 9 | 4 | 4 | 8 | 0 |
| E86237 | 3.0 | 2 | | 4 | 2 | 2 | 6 | 2 |
| E86300 | 3.8 | 3 | | 6 | 2 | 6 | 6 | 0 |
| E86367 | 5.2 | 4 | | 10 | 5 | 5 | 7 | 0 |
| HM8843 | 6.2 | 8 | | 11 | 5 | 4 | 9 | 0 |
| LN85-874 | 3.7 | 6 | | 8 | 6 | 1 | 7 | -6 |
| LN85-6210 | 4.8 | 6 | | 9 | 4 | 3 | 9 | -2 |
| LN85-7317 | 7.7 | 10 | | 12 | 9 | 6 | 9 | 0 |
| LN85-10524 | 6.7 | 9 | | 11 | 7 | 3 | 8 | 2 |
| M84-341 | -2.5 | -6 | | -2 | -6 | -12 | 0 | 11 |
| M84-345 | 1.8 | -2 | | 5 | 3 | 0 | 5 | 0 |
| M84-384 | 0.0 | 2 | | 2 | -6 | -1 | 3 | 0 |
| M84-557 | 0.2 | -1 | | 4 | -6 | 0 | -1 | 5 |
| M84-747 | 5.2 | 4 | | 9 | 2 | 5 | 7 | 4 |
| M84-855 | -2.3 | -2 | | 0 | -3 | -6 | 5 | -8 |
| M84-916 | 0.0 | 0 | | 2 | 0 | 3 | 3 | -8 |
| M84-949 | -2.7 | -2 | | -1 | -6 | 0 | -2 | -5 |
| M84-1023 | -0.5 | 0 | | 1 | -7 | 2 | 3 | -2 |
| M84-1034 | 1.8 | 4 | | 6 | 0 | -2 | 5 | -2 |
| U85-63023 | 7.0 | 9 | | 11 | 8 | 6 | 10 | -2 |
| U85-66042 | 5.8 | 7 | | 10 | 3 | 5 | 10 | 0 |
| Date Planted | 05/10.5 | 05/11 | | 05/16 | 05/04 | 05/02 | 05/17 | 05/13 |
| Days to Mature | 122 | 113 | | 127 | 122 | 127 | 112 | 130 |

## UNIFORM PRELIMINARY TEST I, 1988

### LODGING (score)

| Strain | Mean 7 Tests | Kanawha IA | Royal IA | Saginaw MI | Lamberton MN | Waseca MN | Brookings SD | Arlington WI |
|---|---|---|---|---|---|---|---|---|
| Dawson (0) | 1.5 | 1.6 | 1.9 | 3.0 | 1.0 | 1.0 | 1.0 | 1.3 |
| Elgin 87 (II) | 1.7 | 1.7 | 2.2 | 3.0 | 1.0 | 1.5 | 1.0 | 1.3 |
| Hardin | 2.2 | 2.6 | 3.0 | 4.0 | 1.0 | 2.0 | 1.0 | 1.8 |
| Sibley (I) | 2.1 | 3.1 | 3.3 | 4.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| A87-187006 | 1.8 | 2.0 | 3.0 | 3.0 | 1.0 | 1.0 | 1.0 | 1.3 |
| A87-187007 | 1.8 | 1.9 | 3.3 | 3.0 | 1.0 | 1.0 | 1.0 | 1.3 |
| A87-187020 | 1.4 | 1.7 | 1.9 | 2.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| A87-187026 | 1.1 | 1.1 | 1.4 | 1.5 | 1.0 | 1.0 | 1.0 | 1.0 |
| A87-196014 | 1.6 | 1.8 | 2.7 | 3.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| A87-196025 | 1.9 | 1.8 | 2.8 | 4.0 | 1.0 | 1.0 | 1.0 | 1.5 |
| A87-196029 | 1.6 | 1.2 | 2.8 | 3.0 | 1.0 | 1.0 | 1.0 | 1.5 |
| A87-196030 | 1.5 | 1.6 | 2.2 | 3.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| A87-198005 | 1.5 | 1.5 | 2.0 | 2.5 | 1.0 | 1.0 | 1.0 | 1.5 |
| A87-198015 | 1.4 | 1.3 | 1.4 | 2.5 | 1.0 | 1.0 | 1.0 | 1.3 |
| E86237 | 1.5 | 1.3 | 2.4 | 2.5 | 1.0 | 1.0 | 1.0 | 1.0 |
| E86300 | 2.0 | 1.9 | 2.3 | 4.0 | 1.0 | 2.0 | 1.0 | 2.0 |
| E86367 | 1.5 | 1.4 | 1.7 | 3.0 | 1.0 | 1.0 | 1.0 | 1.5 |
| HM8843 | 2.2 | 2.5 | 3.6 | 3.0 | 1.0 | 2.0 | 2.0 | 1.5 |
| LN85-874 | 1.7 | 1.7 | 2.3 | 2.5 | 1.0 | 2.0 | 1.0 | 1.3 |
| LN85-6210 | 1.9 | 1.6 | 2.5 | 3.0 | 1.0 | 2.0 | 2.0 | 1.5 |
| LN85-7317 | 1.9 | 2.4 | 3.2 | 3.0 | 1.0 | 1.5 | 1.0 | 1.3 |
| LN85-10524 | 1.6 | 1.8 | 1.9 | 3.0 | 1.0 | 1.0 | 1.0 | 1.5 |
| M84-341 | 1.4 | 1.4 | 1.8 | 2.5 | 1.0 | 1.0 | 1.0 | 1.0 |
| M84-345 | 1.6 | 1.8 | 2.1 | 3.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| M84-384 | 1.5 | 1.3 | 1.9 | 3.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| M84-557 | 1.7 | 1.8 | 2.5 | 3.0 | 1.0 | 1.0 | 1.0 | 1.3 |
| M84-747 | 1.8 | 2.3 | 3.0 | 3.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| M84-855 | 1.7 | 1.8 | 3.0 | 3.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| M84-916 | 2.0 | 2.4 | 3.4 | 4.0 | 1.0 | 1.0 | 1.0 | 1.5 |
| M84-949 | 1.3 | 1.3 | 1.8 | 2.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| M84-1023 | 1.4 | 1.3 | 2.8 | 2.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| M84-1034 | 1.4 | 1.2 | 1.8 | 2.0 | 1.0 | 1.0 | 1.0 | 1.5 |
| U85-63023 | 1.7 | 1.7 | 2.1 | 3.0 | 1.0 | 1.5 | 1.0 | 1.5 |
| U85-66042 | 1.5 | 1.6 | 1.8 | 3.0 | 1.0 | 1.0 | 1.0 | 1.3 |

## UNIFORM PRELIMINARY TEST I, 1988

### PLANT HEIGHT (inches)

| Strain | Mean 7 Tests | Kanawha IA | Royal IA | Saginaw MI | Lamberton MN | Waseca MN | Brookings SD | Arlington WI |
|---|---|---|---|---|---|---|---|---|
| Dawson (0) | 29 | 34 | 32 | 37 | 25 | 19 | 25 | 30 |
| Elgin 87 (II) | 33 | 37 | 39 | 43 | 31 | 26 | 29 | 24 |
| Hardin | 36 | 46 | 41 | 48 | 27 | 26 | 31 | 36 |
| Sibley (I) | 35 | 40 | 40 | 47 | 30 | 25 | 29 | 33 |
| A87-187006 | 38 | 45 | 48 | 47 | 32 | 31 | 32 | 33 |
| A87-187007 | 36 | 38 | 42 | 48 | 28 | 28 | 30 | 36 |
| A87-187020 | 34 | 38 | 38 | 43 | 37 | 25 | 28 | 29 |
| A87-187026 | 26 | 30 | 32 | 33 | 23 | 19 | 24 | 20 |
| A87-196014 | 38 | 45 | 46 | 48 | 33 | 30 | 33 | 30 |
| A87-196025 | 37 | 40 | 44 | 47 | 31 | 29 | 31 | 34 |
| A87-196029 | 33 | 34 | 42 | 41 | 29 | 23 | 31 | 31 |
| A87-196030 | 33 | 36 | 42 | 41 | 28 | 25 | 26 | 31 |
| A87-198005 | 33 | 37 | 40 | 44 | 30 | 27 | 27 | 26 |
| A87-198015 | 33 | 37 | 41 | 46 | 25 | 24 | 26 | 32 |
| E86237 | 36 | 40 | 42 | 50 | 28 | 26 | 37 | 31 |
| E86300 | 32 | 35 | 36 | 47 | 25 | 23 | 28 | 28 |
| E86367 | 34 | 38 | 39 | 45 | 30 | 27 | 29 | 29 |
| HM8843 | 41 | 46 | 46 | 49 | 37 | 33 | 43 | 31 |
| LN85-874 | 33 | 37 | 41 | 44 | 32 | 27 | 26 | 27 |
| LN85-6210 | 36 | 38 | 46 | 44 | 34 | 26 | 35 | 30 |
| LN85-7317 | 38 | 43 | 44 | 46 | 37 | 28 | 33 | 34 |
| LN85-10524 | 34 | 37 | 38 | 41 | 33 | 28 | 31 | 31 |
| M84-341 | 31 | 40 | 34 | 42 | 24 | 23 | 28 | 28 |
| M84-345 | 36 | 40 | 40 | 46 | 35 | 26 | 37 | 30 |
| M84-384 | 29 | 34 | 34 | 44 | 23 | 19 | 26 | 21 |
| M84-557 | 33 | 38 | 42 | 45 | 27 | 23 | 27 | 30 |
| M84-747 | 38 | 44 | 49 | 48 | 33 | 28 | 31 | 34 |
| M84-855 | 35 | 38 | 40 | 44 | 31 | 21 | 38 | 30 |
| M84-916 | 37 | 42 | 44 | 48 | 29 | 27 | 33 | 33 |
| M84-949 | 32 | 38 | 39 | 42 | 26 | 23 | 26 | 30 |
| M84-1023 | 33 | 38 | 40 | 43 | 23 | 24 | 27 | 33 |
| M84-1034 | 30 | 35 | 35 | 40 | 21 | 22 | 27 | 29 |
| U85-63023 | 36 | 40 | 42 | 44 | 30 | 32 | 31 | 35 |
| U85-66042 | 39 | 43 | 48 | 49 | 31 | 32 | 34 | 33 |

## UNIFORM PRELIMINARY TEST I, 1988

### SEED QUALITY (score)

| Strain | Mean 7 Tests | Kanawha IA | Royal IA | Saginaw MI | Lamberton MN | Waseca MN | Brookings SD | Arlington WI |
|---|---|---|---|---|---|---|---|---|
| Dawson (0) | 2.5 | 2.1 | 3.3 | 1.0 | 2.5 | 4.0 | 3.0 | 1.5 |
| Elgin 87 (II) | 2.3 | 2.5 | 2.7 | 1.0 | 2.2 | 3.7 | 2.0 | 2.0 |
| Hardin | 2.4 | 2.2 | 2.9 | 1.0 | 2.5 | 3.5 | 2.0 | 3.0 |
| Sibley (I) | 2.2 | 2.0 | 1.9 | 1.0 | 2.2 | 3.0 | 3.0 | 2.0 |
| A87-187006 | 2.6 | 2.4 | 2.4 | 1.0 | 3.0 | 4.0 | 2.0 | 3.5 |
| A87-187007 | 2.4 | 2.5 | 3.0 | 2.0 | 2.5 | 2.5 | 2.0 | 2.0 |
| A87-187020 | 1.9 | 1.5 | 1.7 | 1.5 | 1.8 | 2.5 | 2.0 | 2.5 |
| A87-187026 | 2.0 | 1.8 | 2.0 | 1.0 | 2.5 | 3.0 | 2.0 | 2.0 |
| A87-196014 | 2.1 | 1.8 | 1.6 | 1.0 | 2.5 | 3.5 | 2.0 | 2.5 |
| A87-196025 | 2.3 | 2.2 | 2.2 | 1.0 | 3.0 | 3.5 | 3.0 | 1.5 |
| A87-196029 | 2.0 | 2.0 | 1.7 | 1.0 | 3.0 | 3.0 | 2.0 | 1.5 |
| A87-196030 | 1.7 | 1.4 | 1.3 | 1.0 | 2.0 | 2.5 | 2.0 | 1.5 |
| A87-198005 | 1.5 | 1.2 | 1.5 | 1.0 | 2.0 | 1.5 | 2.0 | 1.5 |
| A87-198015 | 1.8 | 2.0 | 1.4 | 1.0 | 2.0 | 3.0 | 2.0 | 1.0 |
| E86237 | 2.5 | 1.7 | 3.2 | 1.0 | 3.0 | 4.0 | 2.0 | 2.5 |
| E86300 | 2.2 | 2.1 | 3.0 | 1.0 | 3.0 | 3.0 | 2.0 | 1.5 |
| E86367 | 2.1 | 2.2 | 1.7 | 1.0 | 3.0 | 2.5 | 2.0 | 2.0 |
| HM8843 | 1.9 | 1.2 | 1.5 | 1.0 | 2.5 | 2.5 | 2.0 | 2.5 |
| LN85-874 | 2.0 | 1.8 | 2.2 | 1.0 | 2.0 | 2.0 | 2.0 | 3.0 |
| LN85-6210 | 1.5 | 1.2 | 1.4 | 1.0 | 1.8 | 2.0 | 2.0 | 1.0 |
| LN85-7317 | 1.7 | 2.2 | 1.8 | 1.0 | 2.0 | 2.0 | 2.0 | 1.0 |
| LN85-10524 | 1.5 | 1.1 | 1.3 | 1.5 | 1.5 | 2.0 | 2.0 | 1.0 |
| M84-341 | 2.6 | 2.8 | 3.1 | 1.0 | 2.5 | 4.0 | 3.0 | 2.0 |
| M84-345 | 2.1 | 1.6 | 2.0 | 1.0 | 2.5 | 3.5 | 2.0 | 2.0 |
| M84-384 | 2.6 | 2.9 | 2.7 | 1.0 | 2.5 | 3.5 | 3.0 | 2.5 |
| M84-557 | 3.1 | 3.4 | 4.1 | 1.5 | 3.2 | 4.0 | 3.0 | 2.5 |
| M84-747 | 3.0 | 4.0 | 3.3 | 1.0 | 3.5 | 4.0 | 2.0 | 3.5 |
| M84-855 | 2.5 | 2.5 | 2.3 | 1.0 | 3.0 | 4.0 | 2.0 | 2.5 |
| M84-916 | 2.1 | 1.7 | 1.9 | 1.0 | 3.2 | 3.0 | 2.0 | 2.0 |
| M84-949 | 2.7 | 3.0 | 2.2 | 1.0 | 3.2 | 4.0 | 3.0 | 2.5 |
| M84-1023 | 3.0 | 3.6 | 3.4 | 1.0 | 3.8 | 4.0 | 3.0 | 2.0 |
| M84-1034 | 2.3 | 2.3 | 2.1 | 1.0 | 3.5 | 3.0 | 2.0 | 2.0 |
| U85-63023 | 2.7 | 3.9 | 3.9 | 3.0 | 3.0 | 2.5 | 1.0 | 1.5 |
| U85-66042 | 2.5 | 3.4 | 2.7 | 1.5 | 3.2 | 3.0 | 2.0 | 1.5 |

## UNIFORM PRELIMINARY TEST I, 1988

### SEED SIZE (g/100)

| Strain | Mean 7 Tests | Kanawha IA | Royal IA | Saginaw MI | Lamberton MN | Waseca MN | Brookings SD | Arlington WI |
|---|---|---|---|---|---|---|---|---|
| Dawson (0) | 15.7 | 15.0 | 17.2 | 17.8 | 15.8 | 15.5 | 16.9 | 12.0 |
| Elgin 87 (II) | 15.6 | 14.8 | 16.8 | 18.9 | 13.1 | 14.2 | 17.3 | 13.8 |
| Hardin | 14.9 | 13.8 | 15.0 | 15.9 | 14.5 | 14.4 | 17.6 | 13.0 |
| Sibley (I) | 17.5 | 16.3 | 20.0 | 20.1 | 16.1 | 17.0 | 17.7 | 15.4 |
| A87-187006 | 16.5 | 15.7 | 17.5 | 18.4 | 14.8 | 15.8 | 18.0 | 15.6 |
| A87-187007 | 15.6 | 14.5 | 16.1 | 16.9 | 14.0 | 16.0 | 17.1 | 14.8 |
| A87-187020 | 14.8 | 14.2 | 14.6 | 17.0 | 12.8 | 14.6 | 16.6 | 13.6 |
| A87-187026 | 16.9 | 15.8 | 17.0 | 18.7 | 16.2 | 16.8 | 18.2 | 15.7 |
| A87-196014 | 15.1 | 14.3 | 16.2 | 16.3 | 13.9 | 15.0 | 16.9 | 12.8 |
| A87-196025 | 17.4 | 16.8 | 18.6 | 17.2 | 17.5 | 16.2 | 19.1 | 16.1 |
| A87-196029 | 17.1 | 16.1 | 18.9 | 20.0 | 14.7 | 15.7 | 18.4 | 16.2 |
| A87-196030 | 15.7 | 14.8 | 16.4 | 16.1 | 14.6 | 17.4 | 16.2 | 14.5 |
| A87-198005 | 17.1 | 16.7 | 18.3 | 19.8 | 15.9 | 15.4 | 19.2 | 14.1 |
| A87-198015 | 15.8 | 14.8 | 15.4 | 17.4 | 14.0 | 16.9 | 16.9 | 15.3 |
| E86237 | 16.3 | 14.4 | 16.4 | 19.5 | 14.8 | 16.9 | 18.2 | 13.7 |
| E86300 | 17.0 | 16.0 | 18.2 | 19.2 | 16.5 | 13.1 | 20.7 | 15.1 |
| E86367 | 14.6 | 14.4 | 15.3 | 17.1 | 12.5 | 12.6 | 16.1 | 14.2 |
| HM8843 | 15.5 | 14.9 | 16.1 | 16.6 | 13.3 | 18.5 | 16.5 | 12.5 |
| LN85-874 | 17.3 | 17.4 | 18.9 | 19.9 | 15.9 | 15.4 | 18.4 | 15.4 |
| LN85-6210 | 15.5 | 14.7 | 17.6 | 17.6 | 13.2 | 14.5 | 17.1 | 13.5 |
| LN85-7317 | 18.2 | 18.5 | 20.1 | 20.3 | 15.6 | 17.8 | 19.2 | 15.9 |
| LN85-10524 | 14.4 | 14.5 | 16.1 | 15.9 | 12.4 | 13.8 | 15.2 | 12.8 |
| M84-341 | 14.5 | 14.6 | 15.4 | 17.2 | 13.1 | 12.1 | 16.4 | 12.5 |
| M84-345 | 16.4 | 15.3 | 17.4 | 18.7 | 15.5 | 14.8 | 18.8 | 14.5 |
| M84-384 | 14.8 | 15.1 | 15.6 | 17.4 | 12.6 | 13.9 | 17.5 | 11.8 |
| M84-557 | 15.6 | 14.9 | 16.7 | 18.2 | 13.7 | 13.9 | 18.5 | 13.4 |
| M84-747 | 17.2 | 16.2 | 17.8 | 20.0 | 14.7 | 17.4 | 19.1 | 15.1 |
| M84-855 | 15.8 | 15.1 | 16.6 | 19.0 | 14.0 | 13.4 | 20.0 | 12.7 |
| M84-916 | 17.4 | 16.7 | 18.6 | 19.9 | 15.5 | 17.0 | 18.9 | 14.9 |
| M84-949 | 15.7 | 15.8 | 16.7 | 18.3 | 14.8 | 14.1 | 17.8 | 12.5 |
| M84-1023 | 16.2 | 15.7 | 17.5 | 18.2 | 15.4 | 15.2 | 18.2 | 13.3 |
| M84-1034 | 16.6 | 15.8 | 17.1 | 19.6 | 15.2 | 16.4 | 18.5 | 13.7 |
| U85-63023 | 18.3 | 18.7 | 18.8 | 21.2 | 15.6 | 17.5 | 19.3 | 17.0 |
| U85-66042 | 15.1 | 15.2 | 15.1 | 17.8 | 15.7 | 14.2 | 15.6 | 12.2 |

## UNIFORM PRELIMINARY TEST I, 1988

### PROTEIN (%)

| Strain | Mean 5 Tests | Royal IA | Lamberton MN | Waseca MN | Brookings SD | Arlington WI |
|---|---|---|---|---|---|---|
| Dawson (0) | 38.3 | 38.6 | 38.1 | 37.0 | 38.3 | 39.6 |
| Elgin 87 (II) | 37.7 | 37.6 | 39.3 | 36.8 | 37.8 | 37.0 |
| Hardin | 38.6 | 39.8 | 36.8 | 39.0 | 39.3 | 38.2 |
| Sibley (I) | 38.9 | 40.1 | 37.0 | 38.7 | 38.5 | 40.0 |
| A87-187006 | 38.8 | 38.3 | 39.0 | 38.5 | 39.1 | 39.1 |
| A87-187007 | 38.6 | 39.7 | 37.0 | 40.0 | 39.9 | 36.6 |
| A87-187020 | 37.4 | 39.3 | 37.6 | 36.5 | 38.9 | 34.9 |
| A87-187026 | 38.7 | 38.7 | 38.7 | 38.0 | 38.6 | 39.7 |
| A87-196014 | 37.7 | 38.4 | 39.7 | 38.3 | 37.0 | 35.2 |
| A87-196025 | 39.5 | 39.9 | 39.5 | 39.5 | 39.5 | 39.1 |
| A87-196029 | 39.1 | 42.2 | 36.9 | 40.3 | 39.3 | 36.6 |
| A87-196030 | 39.3 | 40.3 | 38.1 | 39.4 | 39.2 | 39.7 |
| A87-198005 | 39.1 | 40.7 | 36.4 | 39.7 | 40.0 | 38.8 |
| A87-198015 | 38.9 | 38.7 | 38.5 | 39.7 | 39.1 | 38.4 |
| E86237 | 38.0 | 38.8 | 36.5 | 36.6 | 39.1 | 38.8 |
| E86300 | 37.5 | 37.4 | 38.8 | 39.1 | 36.3 | 36.1 |
| E86367 | 39.0 | 39.6 | 39.3 | 40.1 | 39.6 | 36.5 |
| HM8843 | 39.9 | 41.1 | 39.8 | 40.0 | 40.5 | 38.3 |
| LN85-874 | 39.2 | 39.7 | 38.0 | 39.1 | 40.6 | 38.6 |
| LN85-6210 | 39.1 | 40.5 | 37.0 | 40.7 | 39.5 | 37.6 |
| LN85-7317 | 38.2 | 40.4 | 35.9 | 37.7 | 39.7 | 37.2 |
| LN85-10524 | 37.3 | 39.6 | 36.2 | 36.7 | 38.1 | 35.9 |
| M84-341 | 37.9 | 37.7 | 38.3 | 38.4 | 37.9 | 37.0 |
| M84-345 | 38.9 | 40.9 | 37.3 | 38.0 | 39.7 | 38.5 |
| M84-384 | 38.1 | 39.7 | 37.2 | 38.5 | 38.6 | 36.3 |
| M84-557 | 38.3 | 39.9 | 36.5 | 38.0 | 38.3 | 38.8 |
| M84-747 | 37.5 | 38.8 | 36.1 | 38.1 | 38.7 | 35.9 |
| M84-855 | 37.6 | 39.1 | 34.3 | 38.2 | 38.7 | 37.8 |
| M84-916 | 37.7 | 37.9 | 37.1 | 38.9 | 38.7 | 35.9 |
| M84-949 | 37.4 | 38.4 | 34.8 | 36.9 | 38.0 | 38.9 |
| M84-1023 | 38.2 | 38.5 | 38.0 | 40.6 | 37.1 | 36.7 |
| M84-1034 | 38.1 | 37.3 | 36.8 | 39.1 | 40.4 | 36.7 |
| U85-63023 | 38.5 | 38.6 | 38.9 | 40.0 | 40.0 | 35.1 |
| U85-66042 | 39.1 | 41.8 | 38.8 | 37.0 | 39.9 | 38.2 |

## UNIFORM PRELIMINARY TEST I, 1988

### OIL (%)

| Strain | Mean 5 Tests | Royal IA | Lamberton MN | Waseca MN | Brookings SD | Arlington WI |
|---|---|---|---|---|---|---|
| Dawson (0) | 23.3 | 23.2 | 23.3 | 25.2 | 23.1 | 21.9 |
| Elgin 87 (II) | 22.7 | 21.9 | 24.0 | 23.3 | 21.6 | 22.7 |
| Hardin | 23.3 | 21.9 | 25.3 | 23.8 | 22.4 | 22.9 |
| Sibley (I) | 22.8 | 22.4 | 22.5 | 23.8 | 22.8 | 22.7 |
| A87-187006 | 22.0 | 21.4 | 23.2 | 23.1 | 21.5 | 20.9 |
| A87-187007 | 22.7 | 21.3 | 24.8 | 22.7 | 21.9 | 22.7 |
| A87-187020 | 23.2 | 22.3 | 24.1 | 23.9 | 21.7 | 24.1 |
| A87-187026 | 22.6 | 22.3 | 23.4 | 23.2 | 22.2 | 22.0 |
| A87-196014 | 22.0 | 20.9 | 23.1 | 21.9 | 21.5 | 22.8 |
| A87-196025 | 22.5 | 21.5 | 23.7 | 23.2 | 21.6 | 22.6 |
| A87-196029 | 22.0 | 20.3 | 23.1 | 22.5 | 21.4 | 22.8 |
| A87-196030 | 22.0 | 20.5 | 24.3 | 22.5 | 21.1 | 21.5 |
| A87-198005 | 22.9 | 21.6 | 24.8 | 23.1 | 22.1 | 22.8 |
| A87-198015 | 22.9 | 22.3 | 24.3 | 23.3 | 22.1 | 22.3 |
| E86237 | 22.9 | 22.0 | 24.2 | 24.2 | 21.7 | 22.3 |
| E86300 | 23.2 | 22.6 | 23.5 | 23.1 | 22.7 | 23.9 |
| E86367 | 22.2 | 21.1 | 22.4 | 22.8 | 21.8 | 22.8 |
| HM8843 | 21.7 | 20.4 | 23.3 | 22.7 | 20.5 | 21.5 |
| LN85-874 | 22.1 | 21.5 | 23.7 | 22.9 | 20.8 | 21.7 |
| LN85-6210 | 22.1 | 20.7 | 23.7 | 22.6 | 21.2 | 22.1 |
| LN85-7317 | 22.2 | 21.1 | 24.2 | 22.7 | 20.5 | 22.4 |
| LN85-10524 | 23.1 | 20.6 | 25.0 | 26.5 | 21.1 | 22.2 |
| M84-341 | 24.2 | 23.0 | 25.5 | 25.7 | 23.2 | 23.4 |
| M84-345 | 23.7 | 22.0 | 25.3 | 25.0 | 23.2 | 23.0 |
| M84-384 | 24.0 | 23.2 | 24.6 | 24.5 | 23.6 | 24.0 |
| M84-557 | 23.1 | 22.1 | 24.5 | 24.6 | 22.0 | 22.1 |
| M84-747 | 23.6 | 22.7 | 25.1 | 24.2 | 21.9 | 23.9 |
| M84-855 | 23.7 | 22.1 | 26.4 | 23.9 | 22.4 | 23.8 |
| M84-916 | 23.8 | 23.0 | 25.3 | 24.5 | 22.6 | 23.8 |
| M84-949 | 24.1 | 22.6 | 27.0 | 26.3 | 22.3 | 22.4 |
| M84-1023 | 23.7 | 23.9 | 24.6 | 23.3 | 23.4 | 23.4 |
| M84-1034 | 22.7 | 23.4 | 23.2 | 22.6 | 21.8 | 22.5 |
| U85-63023 | 21.9 | 21.0 | 22.9 | 22.4 | 20.5 | 22.7 |
| U85-66042 | 22.1 | 20.7 | 22.1 | 24.6 | 21.0 | 21.9 |

## UNIFORM TEST II, 1988

| Strain | Parentage | Previous* Testing | Generation Composited | Unique Traits |
|---|---|---|---|---|
| Elgin 87 (II) | Elgin (5) x Williams 82 | 3 | BC4 F2 | Rps1-k |
| Hardin | Corsoy (3) x Cutler 71 | 2 | F5 | |
| Hoyt (dt) | Harcor x Elf | PTIIB | F5 | |
| Zane (III) | Cumberland x Pella | 3 | F5 | |
| Amcor (Dt) | Amsoy 71 x Corsoy | 1980 | F6 | |
| HC Amcor (Dt) | Amcor (6) x Willians 82 | - | BC5 F3 | Rps1-k |
| A85-193023 | A79-135010 x Asgrow A1937 | UTI | F5 | |
| A85-291001 | Elgin x Asgrow A1937 | 1 | F5 | |
| A86-102004 | A80-244036 x Asgrow A1937 | PTI | F5 | |
| A86-103002 | Jacques J103 x A81-356022 | PTI | F5 | |
| A86-103027 | Hack x Asgrow A1937 | PTI | F5 | |
| A86-104011 | A80-244036 x A80-344003 | PTI | F5 | |
| A86-203004 | Hack x Zane | PTIIA | F5 | |
| A86-203034 | A81-356022 x Zane | PTIIA | F5 | |
| A86-204022 | Hack x Zane | PTIIA | F5 | |
| E85110 | A80-244003 x U76168 | PTIIB | F4 | |
| E85171 | A80-244003 x Miami | PTIIB | F4 | |
| HC83-613-1 (dt) | A77-314013 x Hobbit | PTIIB | F5 | |
| HM8634 | Zane (3) x HW79149 | PTIIB | BC2 F3 | |
| HM8635 | Zane (3) x HW79149 | PTIIB | BC2 F3 | |
| HS84-6224 | HW79015 (2) x HW79149 | PTIIA | BC1 F3 | |
| HS84-6247 | Zane (3) x HW79149 | PTIIA | BC2 F3 | |
| LN82-9648 | K74-113-76-486 x Century | 1 | F5 | |
| LN84-8527 | Hack x Harper | PTIIA | F5 | |
| LN84-15574 | LN80-9447 x Asgrow A3127 | PTIIA | F5 | |
| M81-384 | M70-127 x Century | UTII | F5 | |

* Number of years in test, year of previous testing, or name of 1987 test.

# UNIFORM TEST II, 1988

## DESCRIPTIVE DATA

| Strain | Descriptive Code | Chlorosis Score Ames | Chlorosis Score Lamber-ton | Emerg. Score Ames | Shattering Score Pontiac | Shattering Score Manhattan |
|---|---|---|---|---|---|---|
| Elgin 87 (II) | PTBSYBl | 3.4 | 3.2 | 2 | 1.0 | 1.0 |
| Hardin | PGBSYY | 3.8 | 4.2 | 1 | 4.0 | 1.0 |
| Hoyt (dt) | PTTSYBl | 3.6 | 3.5 | 1 | 1.0 | 1.0 |
| Zane (III) | PGBSYIb | 3.9 | 2.8 | 5 | 1.0 | 1.0 |
| Amcor (Dt) | PGBSYY | 3.6 | 3.0 | 1 | 1.0 | 1.0 |
| HC Amcor (Dt) | PGBSYY | 3.6 | 4.2 | 1 | 1.0 | 2.0 |
| A85-193023 | WTBDYBl+Br | 3.6 | 4.0 | 3 | 5.0 | 1.0 |
| A85-291001 | PTBDYBl | 3.9 | 4.2 | 1 | 2.0 | 1.0 |
| A86-102004 | PTTSYBr | 4.8 | 4.0 | 1 | 2.0 | 1.0 |
| A86-103002 | WTBSYBr | 3.0 | 4.0 | 1 | 1.0 | 1.0 |
| A86-103027 | WTBSYBr | 2.6 | 3.0 | 5 | 3.0 | 1.0 |
| A86-104011 | P+WTTSYBr | 3.6 | 3.8 | 2 | 2.0 | 1.0 |
| A86-203004 | PGBSYIb | 3.4 | 2.0 | 5 | 1.0 | 2.0 |
| A86-203034 | PGBSYIb | 3.2 | 4.0 | 2 | 1.0 | 1.0 |
| A86-204022 | PGBSYIb | 4.6 | 3.5 | 2 | 1.0 | 1.0 |
| E85110 | WTTSYBl | 4.4 | 3.5 | 3 | 2.0 | 2.0 |
| E85171 | WG+TBSYBf+Bl | 4.5 | 4.2 | 2 | 5.0 | 2.0 |
| HC83-613-1 (dt) | WTBSYBl | 2.8 | 3.8 | 3 | 1.0 | 1.0 |
| HM8634 | PGBSYG | 3.9 | 3.0 | 2 | 1.0 | 1.0 |
| HM8635 | PGBSYIb | 4.0 | 3.5 | 3 | 1.0 | 2.0 |
| HS84-6224 | PGBSYIb | 4.1 | 4.0 | 2 | 1.0 | 2.0 |
| HS84-6247 | PGBSYIb | 4.2 | 3.8 | 4 | 2.0 | 2.0 |
| LN82-9648 | WTTDYBl | 1.9 | 2.5 | 2 | 1.0 | 1.0 |
| LN84-8527 | PTBSYBl | 3.0 | 4.0 | 2 | 2.0 | 1.0 |
| LN84-15574 | WTTSYBl | 4.1 | 4.2 | 2 | 1.0 | 2.0 |
| M81-384 | PGBSYIb | 1.6 | 3.0 | 5 | 5.0 | 1.0 |

## UNIFORM TEST II, 1988

### DISEASE DATA

| Strain | BTS Ames a Score | BSR-Ames Plant n % | BSR-Ames Stem n % | PR Ames Race 4 Reaction | PR Castalia Phyto. Tol. | PR Urbana-Laf. Race 1 | PR Urbana-Laf. Race 7 | PS Lafayette a rt | PSB Lafayette n % | SMV a Score |
|---|---|---|---|---|---|---|---|---|---|---|
| Elgin 87 (II) | 4 | 80.0 | 45.7 | R | 4.3 | R | R | 2E | 12 | 5E |
| Hardin | 2 | 90.0 | 26.9 | S | 4.0 | R | S | 3E | 18 | 1 |
| Hoyt (dt) | 3 | 80.0 | 43.0 | S | 5.5 | R | S | 1 | 18 | 3E |
| Zane (III) | 3 | 100.0 | 62.7 | S | 5.0 | S | S | 2E | 14 | 4E |
| Amcor (Dt) | 3 | 100.0 | 61.3 | S | 4.5 | R | S | 2E | 10 | 2E |
| HC Amcor (Dt) | 3 | 90.0 | 64.7 | R | 4.3 | R | R | 2E | 0 | 3E |
| A85-193023 | 3 | 60.0 | 27.6 | S | 5.3 | S | S | 3E | 8 | 5E |
| A85-291001 | 4 | 80.0 | 38.1 | S | 5.5 | S | S | 2E | 2 | 3E |
| A86-102004 | 3 | 100.0 | 51.3 | S | 6.0 | R | S | 2E | 4 | 1 |
| A86-103002 | 3 | 80.0 | 37.0 | S | 4.5 | S | S | 2E | 4 | 3E |
| A86-103027 | 3 | 100.0 | 62.3 | S | 5.3 | S | S | 3E | 2 | 2E |
| A86-104011 | 3 | 70.0 | 38.7 | S | 3.5 | R | S | 2E | | |
| A86-203004 | 3 | 100.0 | 56.0 | S | 4.3 | S | S | 2E | | |
| A86-203034 | 3 | 80.0 | 37.0 | S | 4.0 | H | S | 3E | | |
| A86-204022 | 3 | 100.0 | 74.7 | S | 4.0 | S | S | 1 | | |
| E85110 | 3 | 100.0 | 51.2 | S | 5.0 | S | S | 3E | | |
| E85171 | 3 | 60.0 | 9.6 | R | 3.7 | R | R | 1 | | |
| HC83-613-1 (dt) | 3 | 90.0 | 64.1 | S | 5.5 | S | S | 2M | | |
| HM8634 | 2 | 100.0 | 43.4 | R | 4.0 | R | H | 1 | | |
| HM8635 | 2 | 100.0 | 76.3 | R | 4.3 | R | H | 2E | 18 | 2M |
| HS84-6224 | 3 | 100.0 | 71.8 | H | 4.3 | R | R | 2E | 12 | 2E |
| HS84-6247 | 3 | 90.0 | 67.7 | R | 4.5 | R | H | 2E | 20 | 2M |
| LN82-9648 | 3 | 90.0 | 52.3 | R | 5.0 | R | R | 1 | 4 | 2M |
| LN84-8527 | 3 | 100.0 | 37.2 | S | 5.3 | S | S | 2E | 16 | |
| LN84-15574 | 3 | 90.0 | 39.3 | S | 5.3 | S | S | 2E | | |
| M81-384 | 3 | 60.0 | 31.3 | S | 5.0 | R | S | 2E | | |

# UNIFORM TEST II, 1988

## REGIONAL SUMMARY

| | Yield | Rank | Maturity | Lodging | Plant Height | Seed Quality | Seed Size | Composition Protein | Composition Oil |
|---|---|---|---|---|---|---|---|---|---|
| No. of Tests | 22 | 22 | 20 | 22 | 22 | 22 | 22 | 5 | 5 |
| Strain | bu/a | No. | Date | Score | In. | Score | g/100 | % | % |
| Elgin 87 (II) | 39.6 | 16 | 09/15.9* | 1.7 | 30 | 2.2 | 14.5 | 39.1 | 22.2 |
| Hardin | 36.1 | 26 | -5.7 | 2.0 | 33 | 2.5 | 13.9 | 40.2 | 22.5 |
| Hoyt (dt) | 38.3 | 24 | 1.2 | 1.5 | 23 | 1.7 | 13.9 | 41.7 | 22.0 |
| Zane (III) | 41.8 | 7 | 6.0 | 1.5 | 35 | 2.2 | 17.6 | 40.9 | 21.7 |
| Amcor (Dt) | 39.6 | 16 | 2.3 | 2.3 | 38 | 2.3 | 15.6 | 39.3 | 21.9 |
| HC Amcor (Dt) | 39.0 | 19 | 2.9 | 2.2 | 38 | 2.3 | 15.3 | 40.3 | 21.1 |
| A85-193023 | 38.4 | 23 | -2.2 | 1.5 | 29 | 2.9 | 14.8 | 40.0 | 22.7 |
| A85-291001 | 43.4 | 1 | -0.4 | 1.8 | 35 | 2.4 | 14.1 | 38.6 | 22.5 |
| A86-102004 | 40.7 | 13 | -1.3 | 1.6 | 31 | 2.2 | 16.3 | 38.1 | 23.0 |
| A86-103002 | 41.9 | 6 | 1.2 | 1.3 | 30 | 2.6 | 16.1 | 40.8 | 21.4 |
| A86-103027 | 39.3 | 18 | -0.5 | 1.3 | 31 | 2.3 | 15.7 | 40.4 | 22.2 |
| A86-104011 | 39.9 | 15 | -1.6 | 1.7 | 28 | 2.2 | 17.7 | 39.9 | 21.7 |
| A86-203004 | 41.6 | 9 | 5.9 | 1.4 | 33 | 2.2 | 16.5 | 41.0 | 21.4 |
| A86-203034 | 42.5 | 4 | 5.0 | 1.8 | 37 | 2.1 | 17.6 | 41.0 | 21.0 |
| A86-204022 | 42.7 | 3 | 5.1 | 1.5 | 34 | 2.0 | 17.1 | 40.6 | 21.2 |
| E85110 | 37.9 | 25 | -0.9 | 1.4 | 33 | 2.1 | 16.2 | 40.1 | 22.5 |
| E85171 | 38.7 | 21 | -1.3 | 1.9 | 34 | 2.2 | 16.2 | 39.9 | 21.8 |
| HC83-613-1 (dt) | 38.7 | 21 | 5.3 | 1.3 | 23 | 1.7 | 15.7 | 40.6 | 21.9 |
| HM8634 | 41.6 | 9 | 4.6 | 1.5 | 34 | 2.5 | 17.9 | 41.3 | 20.8 |
| HM8635 | 41.3 | 12 | 4.5 | 1.4 | 33 | 2.5 | 18.5 | 41.1 | 21.0 |
| HS84-6224 | 41.7 | 8 | 5.1 | 1.8 | 37 | 1.8 | 16.3 | 40.1 | 21.1 |
| HS84-6247 | 42.2 | 5 | 3.7 | 1.5 | 33 | 2.2 | 17.3 | 40.0 | 21.7 |
| LN82-9648 | 43.4 | 1 | 5.3 | 1.4 | 33 | 1.8 | 16.5 | 42.3 | 20.3 |
| LN84-8527 | 41.6 | 9 | 0.2 | 1.4 | 31 | 1.9 | 17.2 | 40.6 | 21.6 |
| LN84-15574 | 40.4 | 14 | 3.5 | 1.5 | 32 | 1.7 | 12.8 | 40.7 | 20.9 |
| M81-384 | 38.9 | 20 | -2.7 | 1.5 | 30 | 2.2 | 16.7 | 39.7 | 22.3 |

* 126.1 Days after planting

## UNIFORM TEST II, 1988

### 1987-1988 2-YEAR MEAN

| | Yield | Rank | Maturity | Lodging | Plant Height | Seed Quality | Seed Size | Composition Protein | Composition Oil |
|---|---|---|---|---|---|---|---|---|---|
| No. of Tests | 44 | 44 | 39 | 44 | 44 | 41 | 41 | 10 | 10 |
| Strain | bu/a | No. | Date | Score | In. | Score | g/100 | % | % |
| Elgin 87 (II) | 45.7 | 4 | 09/16.2* | 2.1 | 33 | 2.0 | 15.1 | 38.5 | 22.3 |
| Hardin (I) | 42.1 | 6 | -6.6 | 2.4 | 36 | 2.3 | 14.5 | 40.3 | 22.5 |
| Zane (III) | 45.9 | 3 | 6.3 | 1.8 | 38 | 2.1 | 18.1 | 40.7 | 21.7 |
| A85-291001 | 49.4 | 1 | -0.3 | 2.0 | 37 | 2.3 | 14.3 | 38.5 | 22.5 |
| Burlison | 48.3 | 2 | 4.7 | 1.6 | 35 | 1.7 | 17.3 | 41.7 | 20.4 |
| M81-384 | 45.2 | 5 | -3.7 | 1.8 | 34 | 2.1 | 16.9 | 39.2 | 22.6 |

* 126.6 Days after planting

### 1986-1988 3-YEAR MEAN

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| No. of Tests | 65 | 65 | 59 | 65 | 65 | 59 | 60 | 14 | 14 |
| Strain | | | | | | | | | |
| Elgin 87 (II) | 47.6 | 2 | 09/18.5* | 2.2 | 33 | 1.9 | 15.4 | 38.2 | 22.1 |
| Hardin (I) | 44.3 | 4 | -5.9 | 2.4 | 36 | 2.2 | 14.4 | 39.5 | 22.3 |
| Zane (III) | 47.7 | 1 | 5.6 | 1.8 | 38 | 1.9 | 18.2 | 40.1 | 21.6 |
| M81-384 | 47.4 | 3 | -3.4 | 1.8 | 34 | 1.9 | 17.0 | 39.1 | 22.3 |

* 127.4 Days after planting

## UNIFORM TEST II, 1988

### YIELD (bu/a)

| Strain | Mean 22 Tests | Ames IA | Halbur IA | Marshall-town IA | Dekalb IL | Pontiac IL | Urbana IL |
|---|---|---|---|---|---|---|---|
| Elgin 87 (II) | 39.6 | 35.9 | 57.7 | 46.4 | 58.0 | 15.4 | 26.9 |
| Hardin | 36.1 | 36.5 | 59.7 | 37.3 | 51.6 | 16.6 | 26.7 |
| Hoyt (dt) | 38.3 | 36.8 | 65.7 | 40.5 | 60.5 | 19.3 | 24.1 |
| Zane (III) | 41.8 | 32.5 | 57.4 | 45.1 | 62.1 | 20.3 | 19.4 |
| Amcor (Dt) | 39.6 | 36.0 | 56.4 | 43.1 | 55.5 | 17.3 | 23.4 |
| HC Amcor (Dt) | 39.0 | 30.5 | 50.1 | 45.5 | 60.1 | 23.2 | 20.5 |
| A85-193023 | 38.4 | 35.9 | 62.4 | 39.8 | 62.1 | 9.5 | 21.2 |
| A85-291001 | 43.4 | 39.9 | 62.2 | 51.7 | 62.0 | 17.4 | 21.9 |
| A86-102004 | 40.7 | 41.2 | 63.5 | 43.0 | 55.4 | 24.1 | 26.2 |
| A86-103002 | 41.9 | 45.8 | 60.5 | 46.4 | 60.2 | 21.3 | 22.0 |
| A86-103027 | 39.3 | 37.0 | 58.1 | 41.4 | 62.8 | 13.8 | 19.3 |
| A86-104011 | 39.9 | 43.6 | 61.3 | 43.1 | 56.7 | 22.9 | 27.2 |
| A86-203004 | 41.6 | 33.2 | 56.7 | 46.2 | 64.3 | 20.3 | 15.2 |
| A86-203034 | 42.5 | 33.5 | 60.4 | 49.1 | 59.5 | 23.1 | 21.8 |
| A86-204022 | 42.7 | 34.4 | 70.3 | 44.7 | 63.1 | 25.5 | 24.1 |
| E85110 | 37.9 | 35.4 | 58.3 | 37.7 | 62.3 | 11.4 | 20.2 |
| E85171 | 38.7 | 33.4 | 54.0 | 40.9 | 55.4 | 9.1 | 24.0 |
| HC83-613-1 (dt) | 38.7 | 38.2 | 62.1 | 43.6 | 60.1 | 20.7 | 18.0 |
| HM8634 | 41.6 | 30.7 | 51.7 | 48.3 | 65.9 | 22.5 | 17.3 |
| HM8635 | 41.3 | 35.9 | 56.3 | 48.7 | 64.6 | 21.6 | 15.5 |
| HS84-6224 | 41.7 | 34.2 | 53.9 | 45.5 | 63.2 | 21.4 | 19.7 |
| HS84-6247 | 42.2 | 30.4 | 58.5 | 46.9 | 65.4 | 19.2 | 19.3 |
| LN82-9648 | 43.4 | 35.0 | 56.2 | 46.7 | 66.3 | 28.9 | 21.7 |
| LN84-8527 | 41.6 | 32.8 | 65.8 | 46.4 | 65.5 | 18.9 | 21.0 |
| LN84-15574 | 40.4 | 38.2 | 57.1 | 43.1 | 57.2 | 18.8 | 16.6 |
| M81-384 | 38.9 | 35.0 | 61.8 | 41.9 | 61.4 | 14.0 | 26.2 |
| C.V. (%) | | 13.3 | 8.0 | 8.6 | 7.1 | 17.9 | 24.8 |
| L.S.D. (5%) | | 7.8 | 7.5 | 6.2 | 7.0 | 5.2 | ns |
| Row Sp. (In.) | | 27 | 27 | 27 | 30 | 30 | 30 |
| Rows/Plot | | 4 | 4 | 4 | 4 | 4 | 4 |
| Reps | | 3 | 3 | 3 | 3 | 3 | 3 |

## UNIFORM TEST II, 1988

### YIELD (bu/a)

| Strain | Bluff-ton IN | Lafay-ette IN | Britton MI | Saginaw MI | Lamber-ton MN | Waseca MN | Mead NE | Adel-phia NJ | Hoyt-ville OH |
|---|---|---|---|---|---|---|---|---|---|
| Elgin 87 (II) | 23.8 | 32.5 | 41.2 | 60.5 | 23.3 | 41.3 | 40.1 | 48.1 | 25.0 |
| Hardin | 17.4 | 38.9 | 38.2 | 58.8 | 16.1 | 26.1 | 27.4 | 36.4 | 28.8 |
| Hoyt (dt) | 12.2 | 39.0 | 35.6 | 61.5 | 16.0 | 26.7 | 22.6 | 44.0 | 30.6 |
| Zane (III) | 38.6 | 38.4 | 44.5 | 57.5 | 19.9 | 42.3 | 43.9 | 48.4 | 29.9 |
| Amcor (Dt) | 33.5 | 38.5 | 35.5 | 56.0 | 20.1 | 37.5 | 43.2 | 43.1 | 29.3 |
| HC Amcor (Dt) | 31.8 | 40.9 | 41.0 | 52.0 | 17.7 | 41.9 | 38.2 | 38.4 | 29.4 |
| A85-193023 | 27.3 | 40.8 | 37.5 | 63.3 | 18.6 | 39.8 | 35.3 | 41.4 | 27.3 |
| A85-291001 | 33.4 | 40.2 | 41.0 | 61.1 | 26.8 | 43.3 | 45.8 | 47.5 | 32.8 |
| A86-102004 | 25.7 | 42.1 | 41.2 | 63.3 | 22.0 | 48.1 | 33.5 | 46.8 | 25.5 |
| A86-103002 | 20.5 | 48.6 | 40.6 | 72.4 | 18.3 | 42.3 | 37.0 | 50.9 | 27.5 |
| A86-103027 | 24.4 | 42.5 | 43.8 | 59.4 | 19.3 | 39.0 | 32.1 | 45.4 | 24.0 |
| A86-104011 | 32.6 | 38.8 | 38.8 | 56.9 | 22.4 | 41.2 | 31.6 | 42.4 | 30.1 |
| A86-203004 | 24.8 | 34.9 | 43.9 | 59.1 | 23.3 | 42.1 | 44.6 | 50.2 | 31.9 |
| A86-203034 | 37.5 | 42.5 | 46.3 | 57.2 | 21.2 | 45.1 | 40.3 | 49.3 | 30.8 |
| A86-204022 | 26.3 | 38.3 | 43.4 | 57.9 | 21.9 | 41.8 | 46.1 | 50.1 | 31.4 |
| E85110 | 15.9 | 36.3 | 38.8 | 60.6 | 19.8 | 37.8 | 29.9 | 43.5 | 27.5 |
| E85171 | 24.8 | 39.3 | 37.2 | 54.8 | 22.8 | 38.4 | 36.5 | 43.5 | 30.2 |
| HC83-613-1 (dt) | 23.8 | 33.5 | 40.0 | 60.4 | 16.2 | 34.1 | 32.0 | 52.0 | 28.8 |
| HM8634 | 26.5 | 35.3 | 46.3 | 60.7 | 21.8 | 41.0 | 42.8 | 50.1 | 30.7 |
| HM8635 | 19.2 | 40.5 | 44.7 | 60.5 | 20.3 | 39.9 | 41.0 | 52.8 | 31.7 |
| HS84-6224 | 34.9 | 39.6 | 42.0 | 63.5 | 26.9 | 43.1 | 43.9 | 47.3 | 30.6 |
| HS84-6247 | 27.1 | 43.5 | 44.1 | 62.6 | 23.7 | 43.4 | 44.4 | 47.9 | 28.9 |
| LN82-9648 | 29.8 | 46.8 | 43.6 | 59.2 | 23.5 | 45.1 | 46.6 | 48.6 | 35.2 |
| LN84-8527 | 20.3 | 39.9 | 42.5 | 60.0 | 20.9 | 45.5 | 32.3 | 45.3 | 32.7 |
| LN84-15574 | 19.5 | 38.9 | 44.4 | 68.9 | 20.5 | 39.0 | 38.9 | 46.5 | 28.5 |
| M81-384 | 23.6 | 38.4 | 41.0 | 61.5 | 17.8 | 38.0 | 29.5 | 40.5 | 31.3 |
| C.V. (%) | 30.9 | 11.2 | 8.3 | 8.4 | 15.6 | 15.5 | 16.6 | 5.6 | 11.5 |
| L.S.D. (5%) | 12.6 | 7.2 | 4.9 | 7.1 | 5.2 | 10.2 | 10.3 | 3.0 | 4.4 |
| Row Sp. (In.) | 15 | 24 | 20 | 20 | 10 | 10 | 30 | 30 | 15 |
| Rows/Plot | 5 | 4 | 4 | 4 | 10 | 10 | 4 | 4 | 5 |
| Reps | 3 | 3 | 4 | 4 | 3 | 3 | 3 | 3 | 3 |

## UNIFORM TEST II, 1988

### YIELD (bu/a)

| Strain | Wooster OH | Malden Ont. | Ridge-town Ont. | State College PA | Brook-ings SD | Center-ville SD | Arling-ton WI |
|---|---|---|---|---|---|---|---|
| Elgin 87 (II) | 35.5 | 49.3 | 63.8 | 43.8 | 39.2 | 35.1 | 28.3 |
| Hardin | 32.1 | 48.7 | 60.2 | 39.6 | 34.7 | 26.3 | 35.1 |
| Hoyt (dt) | 30.7 | 55.1 | 64.9 | 44.4 | 45.3 | 31.0 | 35.7 |
| Zane (III) | 44.3 | 50.4 | 61.3 | 50.9 | 39.1 | 35.8 | 36.8 |
| Amcor (Dt) | 48.3 | 42.3 | 66.3 | 45.8 | 31.8 | 33.5 | 34.8 |
| HC Amcor (Dt) | 47.2 | 46.4 | 59.2 | 46.4 | 33.6 | 29.8 | 33.6 |
| A85-193023 | 32.0 | 52.5 | 69.2 | 34.8 | 34.4 | 30.4 | 28.5 |
| A85-291001 | 50.8 | 51.1 | 68.7 | 42.3 | 41.7 | 38.2 | 34.5 |
| A86-102004 | 34.8 | 51.6 | 58.6 | 36.8 | 40.4 | 36.0 | 35.5 |
| A86-103002 | 40.4 | 51.2 | 64.8 | 39.9 | 39.7 | 39.2 | 31.5 |
| A86-103027 | 30.4 | 54.0 | 68.7 | 44.0 | 37.7 | 37.0 | 29.5 |
| A86-104011 | 41.1 | 51.2 | 61.0 | 36.3 | 35.2 | 29.3 | 34.6 |
| A86-203004 | 43.7 | 53.2 | 69.1 | 50.0 | 37.1 | 35.5 | 36.4 |
| A86-203034 | 51.2 | 50.3 | 62.4 | 47.5 | 35.8 | 33.7 | 37.5 |
| A86-204022 | 45.6 | 53.2 | 64.8 | 49.3 | 36.5 | 33.4 | 36.9 |
| E85110 | 37.4 | 50.3 | 59.9 | 42.4 | 36.9 | 34.7 | 36.5 |
| E85171 | 46.2 | 49.1 | 63.8 | 42.8 | 37.2 | 34.1 | 34.9 |
| HC83-613-1 (dt) | 26.5 | 51.1 | 65.5 | 51.2 | 30.0 | 32.1 | 32.4 |
| HM8634 | 44.4 | 53.1 | 67.6 | 49.8 | 36.5 | 34.2 | 37.1 |
| HM8635 | 45.6 | 54.9 | 60.5 | 47.5 | 38.0 | 32.9 | 36.0 |
| HS84-6224 | 42.2 | 49.9 | 59.6 | 49.4 | 34.9 | 37.6 | 34.5 |
| HS84-6247 | 46.6 | 55.6 | 63.9 | 45.6 | 39.2 | 35.0 | 37.2 |
| LN82-9648 | 48.0 | 47.8 | 65.6 | 49.3 | 35.0 | 37.1 | 37.7 |
| LN84-8527 | 43.0 | 51.7 | 65.3 | 47.7 | 40.6 | 34.2 | 42.1 |
| LN84-15574 | 45.0 | 55.4 | 60.1 | 47.8 | 36.1 | 37.1 | 30.7 |
| M81-384 | 35.7 | 52.6 | 65.1 | 39.6 | 37.0 | 34.3 | 29.9 |
| C.V. (%) | 17.0 | 6.9 | 9.8 | 5.5 | 8.6 | 10.9 | 11.9 |
| L.S.D. (5%) | 11.1 | 5.8 | 10.2 | 4.1 | 5.2 | 6.1 | 6.4 |
| Row Sp. (In.) | 30 | 24 | 24 | 30 | 30 | 30 | 30 |
| Rows/Plot | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Reps | 3 | 3 | 2 | 3 | 3 | 3 | 3 |

## UNIFORM TEST II, 1988

### YIELD RANK

| Strain | Yield Rank | Ames IA | Halbur IA | Marshall-town IA | Dekalb IL | Pontiac IL | Urbana IL |
|---|---|---|---|---|---|---|---|
| Elgin 87 (II) | 16 | 11 | 16 | 7 | 20 | 21 | 2 |
| Hardin | 26 | 9 | 12 | 26 | 26 | 20 | 3 |
| Hoyt (dt) | 24 | 8 | 3 | 23 | 15 | 14 | 6 |
| Zane (III) | 7 | 23 | 17 | 13 | 11 | 12 | 19 |
| Amcor (Dt) | 16 | 10 | 20 | 16 | 23 | 19 | 9 |
| HC Amcor (Dt) | 19 | 25 | 26 | 11 | 17 | 4 | 16 |
| A85-193023 | 23 | 11 | 5 | 24 | 11 | 25 | 14 |
| A85-291001 | 1 | 4 | 6 | 1 | 13 | 18 | 11 |
| A86-102004 | 13 | 3 | 4 | 19 | 24 | 3 | 4 |
| A86-103002 | 6 | 1 | 10 | 7 | 16 | 10 | 10 |
| A86-103027 | 18 | 7 | 15 | 21 | 9 | 23 | 20 |
| A86-104011 | 15 | 2 | 9 | 16 | 22 | 6 | 1 |
| A86-203004 | 9 | 21 | 19 | 10 | 6 | 12 | 26 |
| A86-203034 | 4 | 19 | 11 | 2 | 19 | 5 | 12 |
| A86-204022 | 3 | 17 | 1 | 14 | 8 | 2 | 6 |
| E85110 | 25 | 14 | 14 | 25 | 10 | 24 | 17 |
| E85171 | 21 | 20 | 23 | 22 | 24 | 26 | 8 |
| HC83-613-1 (dt) | 21 | 5 | 7 | 15 | 17 | 11 | 22 |
| HM8634 | 9 | 24 | 25 | 4 | 2 | 7 | 23 |
| HM8635 | 12 | 11 | 21 | 3 | 5 | 8 | 25 |
| HS84-6224 | 8 | 18 | 24 | 11 | 7 | 9 | 18 |
| HS84-6247 | 5 | 26 | 13 | 5 | 4 | 15 | 20 |
| LN82-9648 | 1 | 15 | 22 | 6 | 1 | 1 | 13 |
| LN84-8527 | 9 | 22 | 2 | 7 | 3 | 16 | 15 |
| LN84-15574 | 14 | 5 | 18 | 16 | 21 | 17 | 24 |
| M81-384 | 20 | 15 | 8 | 20 | 14 | 22 | 4 |

## UNIFORM TEST II, 1988

### YIELD RANK

| Strain | Bluff-ton IN | Lafay-ette IN | Britton MI | Saginaw MI | Lamber-ton MN | Waseca MN | Mead NE | Adel-phia NJ | Hoyt-ville OH |
|---|---|---|---|---|---|---|---|---|---|
| Elgin 87 (II) | 17 | 26 | 14 | 13 | 5 | 13 | 12 | 10 | 28 |
| Hardin | 24 | 15 | 22 | 19 | 25 | 26 | 25 | 26 | 20 |
| Hoyt (dt) | 26 | 14 | 25 | 8 | 26 | 25 | 26 | 18 | 10 |
| Zane (III) | 1 | 20 | 4 | 21 | 17 | 8 | 6 | 9 | 16 |
| Amcor (Dt) | 4 | 18 | 26 | 24 | 16 | 23 | 8 | 21 | 18 |
| HC Amcor (Dt) | 7 | 7 | 17 | 26 | 23 | 11 | 14 | 25 | 17 |
| A85-193023 | 9 | 8 | 23 | 5 | 20 | 17 | 17 | 23 | 25 |
| A85-291001 | 5 | 10 | 15 | 9 | 2 | 6 | 3 | 12 | 2 |
| A86-102004 | 13 | 6 | 13 | 4 | 9 | 1 | 18 | 14 | 27 |
| A86-103002 | 20 | 1 | 18 | 1 | 21 | 8 | 15 | 3 | 23 |
| A86-103027 | 16 | 4 | 8 | 16 | 19 | 18 | 20 | 16 | 29 |
| A86-104011 | 6 | 17 | 20 | 23 | 8 | 14 | 22 | 22 | 14 |
| A86-203004 | 15 | 24 | 7 | 18 | 5 | 10 | 4 | 4 | 4 |
| A86-203034 | 2 | 5 | 2 | 22 | 12 | 3 | 11 | 7 | 8 |
| A86-204022 | 12 | 21 | 10 | 20 | 10 | 12 | 2 | 5 | 6 |
| E85110 | 25 | 22 | 21 | 11 | 18 | 22 | 23 | 19 | 23 |
| E85171 | 14 | 13 | 24 | 25 | 7 | 20 | 16 | 19 | 12 |
| HC83-613-1 (dt) | 18 | 25 | 19 | 14 | 24 | 24 | 21 | 2 | 20 |
| HM8634 | 11 | 23 | 1 | 10 | 11 | 15 | 9 | 5 | 9 |
| HM8635 | 23 | 9 | 3 | 12 | 15 | 16 | 10 | 1 | 5 |
| HS84-6224 | 3 | 12 | 12 | 3 | 1 | 7 | 6 | 13 | 10 |
| HS84-6247 | 10 | 3 | 6 | 6 | 3 | 5 | 5 | 11 | 19 |
| LN82-9648 | 8 | 2 | 9 | 17 | 4 | 3 | 1 | 8 | 1 |
| LN84-8527 | 21 | 11 | 11 | 15 | 13 | 2 | 19 | 17 | 3 |
| LN84-15574 | 22 | 16 | 5 | 2 | 14 | 18 | 13 | 15 | 22 |
| M81-384 | 19 | 19 | 16 | 7 | 22 | 21 | 24 | 24 | 7 |

## UNIFORM TEST II, 1988

### YIELD RANK

| Strain | Wooster OH | Malden Ont. | Ridge-town Ont. | State College PA | Brook-ings SD | Center-ville SD | Arling-ton WI |
|---|---|---|---|---|---|---|---|
| Elgin 87 (II) | 22 | 21 | 15 | 17 | 6 | 10 | 26 |
| Hardin | 25 | 23 | 21 | 22 | 22 | 26 | 13 |
| Hoyt (dt) | 27 | 3 | 11 | 15 | 1 | 22 | 11 |
| Zane (III) | 13 | 17 | 18 | 2 | 8 | 8 | 7 |
| Amcor (Dt) | 3 | 26 | 6 | 13 | 25 | 18 | 15 |
| HC Amcor (Dt) | 5 | 25 | 25 | 12 | 24 | 24 | 19 |
| A85-193023 | 26 | 10 | 1 | 26 | 23 | 23 | 25 |
| A85-291001 | 2 | 15 | 3 | 20 | 2 | 2 | 17 |
| A86-102004 | 23 | 12 | 26 | 24 | 4 | 7 | 12 |
| A86-103002 | 19 | 13 | 12 | 21 | 5 | 1 | 21 |
| A86-103027 | 28 | 5 | 3 | 16 | 10 | 6 | 24 |
| A86-104011 | 18 | 13 | 19 | 25 | 19 | 25 | 16 |
| A86-203004 | 15 | 6 | 2 | 3 | 12 | 9 | 9 |
| A86-203034 | 1 | 18 | 17 | 10 | 18 | 17 | 3 |
| A86-204022 | 8 | 6 | 12 | 6 | 15 | 19 | 6 |
| E85110 | 20 | 18 | 23 | 19 | 14 | 12 | 8 |
| E85171 | 7 | 22 | 15 | 18 | 11 | 16 | 14 |
| HC83-613-1 (dt) | 29 | 15 | 8 | 1 | 26 | 21 | 20 |
| HM8634 | 12 | 8 | 5 | 4 | 15 | 14 | 5 |
| HM8635 | 8 | 4 | 20 | 10 | 9 | 20 | 10 |
| HS84-6224 | 17 | 20 | 24 | 5 | 21 | 3 | 17 |
| HS84-6247 | 6 | 1 | 14 | 14 | 6 | 11 | 4 |
| LN82-9648 | 4 | 24 | 7 | 6 | 20 | 4 | 2 |
| LN84-8527 | 16 | 11 | 9 | 9 | 3 | 14 | 1 |
| LN84-15574 | 10 | 2 | 22 | 8 | 17 | 4 | 22 |
| M81-384 | 21 | 9 | 10 | 22 | 13 | 13 | 23 |

## UNIFORM TEST II, 1988

### MATURITY (date)

| Strain | Mean 20 Tests | Ames IA | Halbur IA | Marshall-town IA | Dekalb IL | Pontiac IL | Urbana IL |
|---|---|---|---|---|---|---|---|
| Elgin 87 (II) | 09/15.9 | 08/30 | | | 09/24 | 09/07 | 09/01 |
| Hardin | -5.7 | -5 | | | -7 | 0 | -5 |
| Hoyt (dt) | 1.2 | 0 | | | 0 | 0 | 1 |
| Zane (III) | 6.0 | 9 | | | -1 | 4 | 6 |
| Amcor (Dt) | 2.3 | 3 | | | -2 | 1 | 2 |
| HC Amcor (Dt) | 2.9 | 5 | | | -5 | 2 | 2 |
| A85-193023 | -2.2 | -2 | | | -5 | 0 | -4 |
| A85-291001 | -0.4 | -1 | | | -2 | 0 | 0 |
| A86-102004 | -1.3 | -3 | | | -5 | 1 | 4 |
| A86-103002 | 1.2 | 5 | | | -1 | 1 | 4 |
| A86-103027 | -0.5 | -2 | | | -3 | 1 | -2 |
| A86-104011 | -1.6 | 0 | | | -5 | 1 | 2 |
| A86-203004 | 5.9 | 7 | | | -2 | 1 | 2 |
| A86-203034 | 5.0 | 5 | | | -1 | 4 | 2 |
| A86-204022 | 5.1 | 7 | | | -1 | 5 | 4 |
| E85110 | -0.9 | -2 | | | -5 | 1 | -3 |
| E85171 | -1.3 | -1 | | | -4 | 1 | -5 |
| HC83-613-1 (dt) | 5.3 | 9 | | | -3 | 7 | 6 |
| HM8634 | 4.6 | 7 | | | -2 | 4 | 3 |
| HM8635 | 4.5 | 5 | | | -2 | 1 | 4 |
| HS84-6224 | 5.1 | 6 | | | 0 | 2 | 2 |
| HS84-6247 | 3.7 | 7 | | | -2 | 1 | 0 |
| LN82-9648 | 5.3 | 8 | | | 0 | 9 | 3 |
| LN84-8527 | 0.2 | -1 | | | -1 | 1 | 1 |
| LN84-15574 | 3.5 | 9 | | | 1 | 1 | 0 |
| M81-384 | -2.7 | -4 | | | -6 | 0 | 0 |
| Date Planted | 05/12.8 | 05/04 | | | 05/06 | 05/06 | 05/03 |
| Days to Mature | 126 | 118 | | | 141 | 124 | 121 |

## UNIFORM TEST II, 1988

### MATURITY (date)

| Strain | Bluff-ton IN | Lafay-ette IN | Britton MI | Saginaw MI | Lamber-ton MN | Waseca MN | Mead NE | Adel-phia NJ | Hoyt-ville OH |
|---|---|---|---|---|---|---|---|---|---|
| Elgin 87 (II) | 09/11 | 09/12 | 09/18 | 09/30 | 09/07 | 09/14 | 09/07 | 09/30 | 09/10 |
| Hardin | -5 | 0 | -8 | -8 | -8 | -6 | -9 | -7 | -11 |
| Hoyt (dt) | -7 | 5 | 1 | -4 | 2 | -1 | 4 | -1 | 0 |
| Zane (III) | 3 | 10 | 5 | 4 | 6 | 4 | 11 | 0 | 4 |
| Amcor (Dt) | 2 | 7 | 1 | 0 | 1 | -2 | 1 | -4 | -2 |
| HC Amcor (Dt) | 5 | 7 | 2 | 3 | 0 | -1 | 2 | -1 | 1 |
| A85-193023 | -4 | -3 | -4 | -4 | 0 | -2 | -1 | -6 | -5 |
| A85-291001 | -3 | 1 | -1 | -2 | 1 | -3 | 3 | -2 | 1 |
| A86-102004 | -3 | 0 | -2 | -4 | 1 | 0 | 0 | -6 | 0 |
| A86-103002 | -2 | 8 | 1 | -2 | 2 | -1 | 0 | -3 | -1 |
| A86-103027 | -3 | 2 | -1 | -3 | 1 | -3 | 0 | -3 | -1 |
| A86-104011 | -2 | 2 | -2 | -6 | 1 | -3 | -2 | -5 | 0 |
| A86-203004 | 4 | 11 | 4 | 7 | 5 | 3 | 12 | 4 | 5 |
| A86-203034 | 4 | 10 | 5 | 4 | 6 | 3 | 6 | 1 | 3 |
| A86-204022 | 4 | 6 | 6 | 5 | 5 | -2 | 8 | 1 | 6 |
| E85110 | -2 | 0 | -1 | -1 | 2 | -3 | -1 | -6 | 0 |
| E85171 | -5 | -3 | -2 | -1 | 1 | -2 | -2 | -6 | -3 |
| HC83-613-1 (dt) | 5 | 7 | 7 | 1 | 6 | 5 | 10 | -1 | 5 |
| HM8634 | 1 | 9 | 6 | 3 | 5 | 4 | 7 | -1 | 4 |
| HM8635 | 2 | 8 | 5 | 2 | 6 | 3 | 7 | 1 | 4 |
| HS84-6224 | 5 | 6 | 7 | 4 | 5 | 4 | 8 | 2 | 3 |
| HS84-6247 | 0 | 6 | 3 | 3 | 4 | 4 | 9 | 0 | 4 |
| LN82-9648 | 2 | 6 | 7 | 4 | 4 | 4 | 8 | 0 | 6 |
| LN84-8527 | -2 | 0 | 0 | 0 | 2 | -2 | 0 | -4 | 1 |
| LN84-15574 | 3 | 4 | 3 | 2 | 1 | 3 | 9 | -1 | 1 |
| M81-384 | -5 | -3 | -4 | -6 | -6 | -3 | -4 | -7 | -5 |
| Date Planted | 05/11 | 05/10 | 05/05 | 05/16 | 05/04 | 05/03 | 05/11 | 06/15 | 05/03 |
| Days to Mature | 123 | 125 | 136 | 137 | 126 | 134 | 119 | 107 | 130 |

## UNIFORM TEST II, 1988

### MATURITY (date)

| Strain | Wooster OH | Malden Ont. | Ridge-town Ont. | State College PA | Brook-ings SD | Center-ville SD | Arling-ton WI |
|---|---|---|---|---|---|---|---|
| Elgin 87 (II) | 09/26 | 09/21 | 09/26 | 09/27 | 09/16 | 09/15 | 09/16 |
| Hardin | -7 | -7 | -3 | -2 | -9 | -8 | 1 |
| Hoyt (dt) | -2 | 1 | 5 | 9 | 2 | 0 | 8 |
| Zane (III) | 3 | 8 | 6 | 9 | 7 | 7 | 14 |
| Amcor (Dt) | 0 | 6 | 7 | 7 | 2 | 7 | 9 |
| HC Amcor (Dt) | 1 | 6 | 5 | 7 | 2 | 3 | 11 |
| A85-193023 | -4 | -5 | -4 | 1 | -2 | -4 | 15 |
| A85-291001 | -2 | -1 | -1 | 4 | -4 | 0 | 5 |
| A86-102004 | -1 | -4 | -4 | 0 | -1 | -4 | 5 |
| A86-103002 | -1 | -1 | 1 | 5 | 1 | -2 | 10 |
| A86-103027 | -1 | -2 | -1 | 3 | -1 | 0 | 9 |
| A86-104011 | -5 | -5 | -3 | 0 | -2 | -3 | 6 |
| A86-203004 | 4 | 8 | 8 | 14 | 5 | 6 | 10 |
| A86-203034 | 1 | 7 | 9 | 11 | 4 | 5 | 10 |
| A86-204022 | 3 | 8 | 10 | 14 | 5 | 4 | 3 |
| E85110 | -1 | 0 | -1 | 3 | 1 | -3 | 5 |
| E85171 | -2 | 2 | 0 | 5 | -1 | -4 | 7 |
| HC83-613-1 (dt) | 1 | 6 | 4 | 7 | 4 | 6 | 13 |
| HM8634 | 1 | 6 | 4 | 7 | 6 | 5 | 13 |
| HM8635 | 1 | 6 | 5 | 10 | 5 | 4 | 13 |
| HS84-6224 | 3 | 10 | 8 | 8 | 5 | 3 | 11 |
| HS84-6247 | 0 | 6 | 5 | 7 | 5 | 5 | 6 |
| LN82-9648 | 3 | 7 | 6 | 10 | 4 | 4 | 11 |
| LN84-8527 | -1 | 2 | 0 | 4 | 2 | -2 | 4 |
| LN84-15574 | 0 | 5 | 5 | 8 | 4 | 4 | 7 |
| M81-384 | -3 | -2 | -2 | 3 | -2 | -2 | 7 |
| Date Planted | 05/12 | 05/18 | 05/24 | 05/27 | 05/17 | 05/16 | 05/13 |
| Days to Mature | 137 | 126 | 125 | 123 | 122 | 122 | 126 |

## UNIFORM TEST II, 1988

### LODGING (score)

| Strain | Mean 22 Tests | Ames IA | Halbur IA | Marshall-town IA | Dekalb IL | Pontiac IL | Urbana IL |
|---|---|---|---|---|---|---|---|
| Elgin 87 (II) | 1.7 | 1.3 | 3.1 | 1.2 | 4.0 | 1.2 | 1.0 |
| Hardin | 2.0 | 1.6 | 3.8 | 1.7 | 3.3 | 1.7 | 2.0 |
| Hoyt (dt) | 1.5 | 1.2 | 2.1 | 1.3 | 3.2 | 1.0 | 1.0 |
| Zane (III) | 1.5 | 1.3 | 2.4 | 1.1 | 3.5 | 1.0 | 1.0 |
| Amcor (Dt) | 2.3 | 1.6 | 4.7 | 2.0 | 4.0 | 2.2 | 2.0 |
| HC Amcor (Dt) | 2.2 | 1.7 | 4.0 | 2.2 | 4.0 | 1.3 | 2.0 |
| A85-193023 | 1.5 | 1.3 | 3.2 | 1.1 | 3.0 | 1.0 | 1.0 |
| A85-291001 | 1.8 | 1.4 | 3.1 | 1.8 | 3.3 | 1.3 | 2.0 |
| A86-102004 | 1.6 | 1.3 | 3.3 | 1.2 | 4.0 | 1.1 | 1.0 |
| A86-103002 | 1.3 | 1.3 | 1.8 | 1.2 | 3.0 | 1.0 | 1.0 |
| A86-103027 | 1.3 | 1.1 | 2.2 | 1.0 | 2.3 | 1.0 | 1.0 |
| A86-104011 | 1.7 | 1.4 | 3.5 | 1.4 | 3.5 | 1.6 | 1.3 |
| A86-203004 | 1.4 | 1.2 | 2.4 | 1.1 | 2.7 | 1.0 | 1.0 |
| A86-203034 | 1.8 | 1.4 | 2.8 | 1.4 | 4.0 | 1.3 | 1.0 |
| A86-204022 | 1.5 | 1.2 | 3.2 | 1.2 | 2.8 | 1.2 | 1.0 |
| E85110 | 1.4 | 1.1 | 2.6 | 1.4 | 2.3 | 1.0 | 1.0 |
| E85171 | 1.9 | 1.4 | 3.5 | 1.7 | 3.7 | 2.4 | 2.7 |
| HC83-613-1 (dt) | 1.3 | 1.2 | 1.8 | 1.2 | 3.5 | 1.3 | 1.0 |
| HM8634 | 1.5 | 1.4 | 2.5 | 1.2 | 3.2 | 1.3 | 1.0 |
| HM8635 | 1.4 | 1.2 | 2.2 | 1.2 | 3.3 | 1.0 | 1.0 |
| HS84-6224 | 1.8 | 1.2 | 3.1 | 1.5 | 3.0 | 2.6 | 1.7 |
| HS84-6247 | 1.5 | 1.3 | 2.3 | 1.2 | 3.3 | 1.1 | 1.0 |
| LN82-9648 | 1.4 | 1.3 | 2.6 | 1.2 | 2.8 | 1.3 | 1.0 |
| LN84-8527 | 1.4 | 1.1 | 2.1 | 1.1 | 2.7 | 1.0 | 1.0 |
| LN84-15574 | 1.5 | 1.2 | 2.7 | 1.1 | 3.8 | 1.0 | 1.0 |
| M81-384 | 1.5 | 1.1 | 3.0 | 1.1 | 2.8 | 1.0 | 1.0 |

## UNIFORM TEST II, 1988

### LODGING (score)

| Strain | Bluff-ton IN | Lafay-ette IN | Britton MI | Saginaw MI | Lamber-ton MN | Waseca MN | Mead NE | Adel-phia NJ | Hoyt-ville OH |
|---|---|---|---|---|---|---|---|---|---|
| Elgin 87 (II) | 1.0 | 1.2 | 1.0 | 3.0 | 1.0 | 1.0 | 1.0 | 2.0 | 1.2 |
| Hardin | 1.0 | 1.7 | 1.3 | 4.3 | 1.0 | 1.0 | 1.7 | 3.3 | 1.2 |
| Hoyt (dt) | 1.0 | 1.0 | 1.0 | 2.0 | 1.0 | 1.0 | 1.0 | 2.0 | 1.1 |
| Zane (III) | 1.0 | 1.0 | 1.0 | 3.0 | 1.0 | 1.0 | 1.0 | 1.3 | 1.3 |
| Amcor (Dt) | 1.2 | 2.2 | 2.0 | 4.0 | 1.0 | 1.3 | 1.3 | 2.7 | 1.2 |
| HC Amcor (Dt) | 1.5 | 1.7 | 1.8 | 3.5 | 1.0 | 1.3 | 1.0 | 3.0 | 1.3 |
| A85-193023 | 1.0 | 1.0 | 1.0 | 2.3 | 1.0 | 1.0 | 1.0 | 1.7 | 1.2 |
| A85-291001 | 1.3 | 1.5 | 1.3 | 3.0 | 1.0 | 1.3 | 1.0 | 2.3 | 1.2 |
| A86-102004 | 1.0 | 1.2 | 1.0 | 3.0 | 1.0 | 1.0 | 1.0 | 2.0 | 1.4 |
| A86-103002 | 1.0 | 1.0 | 1.0 | 2.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.4 |
| A86-103027 | 1.0 | 1.0 | 1.0 | 2.5 | 1.0 | 1.0 | 1.0 | 1.0 | 1.2 |
| A86-104011 | 1.3 | 1.5 | 1.0 | 3.0 | 1.0 | 1.0 | 1.0 | 1.7 | 1.2 |
| A86-203004 | 1.0 | 1.0 | 1.0 | 3.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.3 |
| A86-203034 | 1.3 | 1.3 | 1.3 | 4.0 | 1.0 | 1.0 | 1.0 | 1.3 | 1.4 |
| A86-204022 | 1.0 | 1.2 | 1.0 | 4.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.3 |
| E85110 | 1.0 | 1.0 | 1.0 | 2.8 | 1.0 | 1.3 | 1.0 | 1.0 | 1.3 |
| E85171 | 1.0 | 1.2 | 1.3 | 3.3 | 1.0 | 1.0 | 1.0 | 2.0 | 1.3 |
| HC83-613-1 (dt) | 1.0 | 1.0 | 1.0 | 1.3 | 1.0 | 1.0 | 1.0 | 1.0 | 1.3 |
| HM8634 | 1.0 | 1.0 | 1.3 | 3.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.4 |
| HM8635 | 1.0 | 1.0 | 1.0 | 3.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.3 |
| HS84-6224 | 1.3 | 1.2 | 1.5 | 3.8 | 1.0 | 1.3 | 1.0 | 1.3 | 1.2 |
| HS84-6247 | 1.0 | 1.2 | 1.3 | 3.0 | 1.0 | 1.3 | 1.0 | 1.0 | 1.3 |
| LN82-9648 | 1.0 | 1.0 | 1.0 | 3.0 | 1.0 | 1.0 | 1.0 | 1.3 | 1.3 |
| LN84-8527 | 1.0 | 1.0 | 1.0 | 2.8 | 1.0 | 1.0 | 1.0 | 1.0 | 1.2 |
| LN84-15574 | 1.0 | 1.0 | 1.0 | 2.8 | 1.0 | 1.0 | 1.0 | 1.0 | 1.3 |
| M81-384 | 1.0 | 1.0 | 1.0 | 3.8 | 1.0 | 1.0 | 1.0 | 1.7 | 1.2 |

## UNIFORM TEST II, 1988

### LODGING (score)

| Strain | Wooster OH | Malden Ont. | Ridge-town Ont. | State College PA | Brook-ings SD | Center-ville SD | Arling-ton WI |
|---|---|---|---|---|---|---|---|
| Elgin 87 (II) | 1.6 | 2.3 | 3.0 | 2.0 | 1.0 | 1.0 | 1.2 |
| Hardin | 1.6 | 2.2 | 3.3 | 3.0 | 1.0 | 1.0 | 1.8 |
| Hoyt (dt) | 1.2 | 1.7 | 3.0 | 1.3 | 1.0 | 1.0 | 2.0 |
| Zane (III) | 1.5 | 1.5 | 2.7 | 1.3 | 1.0 | 1.0 | 1.2 |
| Amcor (Dt) | 2.2 | 2.8 | 4.0 | 3.0 | 1.0 | 1.0 | 2.3 |
| HC Amcor (Dt) | 2.1 | 2.8 | 4.0 | 3.7 | 1.0 | 1.0 | 1.7 |
| A85-193023 | 1.6 | 1.7 | 2.7 | 2.0 | 1.0 | 1.0 | 1.5 |
| A85-291001 | 1.8 | 1.5 | 3.3 | 2.0 | 1.0 | 1.0 | 1.3 |
| A86-102004 | 1.6 | 1.8 | 2.3 | 2.0 | 1.0 | 1.0 | 1.8 |
| A86-103002 | 1.5 | 1.3 | 2.7 | 1.0 | 1.0 | 1.0 | 1.3 |
| A86-103027 | 1.5 | 1.0 | 2.0 | 1.0 | 1.0 | 1.0 | 1.2 |
| A86-104011 | 1.5 | 1.8 | 3.3 | 2.3 | 1.0 | 1.0 | 1.8 |
| A86-203004 | 1.6 | 1.5 | 3.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| A86-203034 | 2.0 | 1.8 | 4.3 | 2.3 | 1.0 | 1.0 | 1.5 |
| A86-204022 | 1.6 | 1.3 | 3.0 | 1.7 | 1.0 | 1.0 | 1.2 |
| E85110 | 1.5 | 1.3 | 2.7 | 1.3 | 1.0 | 1.0 | 1.5 |
| E85171 | 1.5 | 1.5 | 3.7 | 2.0 | 1.0 | 1.0 | 1.5 |
| HC83-613-1 (dt) | 1.2 | 1.3 | 2.3 | 1.7 | 1.0 | 1.0 | 1.5 |
| HM8634 | 1.7 | 1.7 | 3.0 | 2.0 | 1.0 | 1.0 | 1.3 |
| HM8635 | 1.5 | 1.5 | 2.7 | 1.0 | 1.0 | 1.0 | 1.2 |
| HS84-6224 | 1.8 | 1.5 | 3.3 | 2.3 | 1.0 | 1.0 | 1.3 |
| HS84-6247 | 1.6 | 1.3 | 2.7 | 1.3 | 1.0 | 1.0 | 1.5 |
| LN82-9648 | 1.6 | 1.5 | 2.3 | 1.3 | 1.0 | 1.0 | 1.2 |
| LN84-8527 | 1.5 | 1.5 | 2.3 | 1.7 | 1.0 | 1.0 | 1.3 |
| LN84-15574 | 1.5 | 1.5 | 3.0 | 1.0 | 1.0 | 1.0 | 1.5 |
| M81-384 | 1.5 | 1.2 | 2.3 | 1.0 | 1.0 | 1.0 | 1.3 |

## UNIFORM TEST II, 1988

### PLANT HEIGHT (inches)

| Strain | Mean 22 Tests | Ames IA | Halbur IA | Marshall-town IA | Dekalb IL | Pontiac IL | Urbana IL |
|---|---|---|---|---|---|---|---|
| Elgin 87 (II) | 30.1 | 33 | 41 | 31 | 35 | 27 | 29 |
| Hardin | 32.9 | 35 | 38 | 34 | 39 | 32 | 30 |
| Hoyt (dt) | 22.5 | 24 | 29 | 21 | 25 | 22 | 21 |
| Zane (III) | 34.7 | 38 | 44 | 34 | 41 | 33 | 31 |
| Amcor (Dt) | 38.2 | 43 | 45 | 42 | 41 | 36 | 33 |
| HC Amcor (Dt) | 37.7 | 42 | 45 | 41 | 41 | 35 | 34 |
| A85-193023 | 29.4 | 31 | 39 | 29 | 29 | 28 | 25 |
| A85-291001 | 34.5 | 36 | 40 | 36 | 39 | 32 | 30 |
| A86-102004 | 30.8 | 34 | 40 | 32 | 33 | 31 | 29 |
| A86-103002 | 30.1 | 36 | 40 | 33 | 31 | 27 | 25 |
| A86-103027 | 30.9 | 33 | 39 | 31 | 31 | 30 | 25 |
| A86-104011 | 28.3 | 30 | 36 | 28 | 32 | 28 | 27 |
| A86-203004 | 33.1 | 35 | 44 | 34 | 40 | 29 | 26 |
| A86-203034 | 36.5 | 39 | 44 | 39 | 43 | 35 | 33 |
| A86-204022 | 34.2 | 35 | 45 | 32 | 40 | 32 | 31 |
| E85110 | 32.6 | 36 | 41 | 32 | 37 | 27 | 27 |
| E85171 | 33.7 | 36 | 41 | 33 | 38 | 33 | 33 |
| HC83-613-1 (dt) | 23.4 | 23 | 27 | 23 | 27 | 26 | 28 |
| HM8634 | 34.3 | 36 | 41 | 36 | 37 | 36 | 31 |
| HM8635 | 33.0 | 36 | 41 | 33 | 38 | 34 | 28 |
| HS84-6224 | 36.7 | 40 | 44 | 38 | 42 | 35 | 34 |
| HS84-6247 | 33.2 | 35 | 41 | 35 | 39 | 31 | 30 |
| LN82-9648 | 33.5 | 36 | 42 | 35 | 38 | 35 | 29 |
| LN84-8527 | 31.5 | 31 | 41 | 31 | 40 | 30 | 27 |
| LN84-15574 | 31.5 | 33 | 42 | 33 | 39 | 31 | 24 |
| M81-384 | 30.2 | 30 | 40 | 31 | 37 | 28 | 27 |

## UNIFORM TEST II, 1988

### PLANT HEIGHT (inches)

| Strain | Bluff-ton IN | Lafay-ette IN | Britton MI | Saginaw MI | Lamber-ton MN | Waseca MN | Mead NE | Adel-phia NJ | Hoyt-ville OH |
|---|---|---|---|---|---|---|---|---|---|
| Elgin 87 (II) | 26 | 33 | 29 | 41 | 21 | 27 | 28 | 26 | 28 |
| Hardin | 25 | 38 | 35 | 49 | 22 | 21 | 28 | 32 | 33 |
| Hoyt (dt) | 16 | 25 | 22 | 31 | 16 | 15 | 15 | 26 | 19 |
| Zane (III) | 30 | 38 | 34 | 48 | 26 | 32 | 32 | 31 | 30 |
| Amcor (Dt) | 33 | 44 | 41 | 53 | 24 | 32 | 41 | 35 | 34 |
| HC Amcor (Dt) | 33 | 41 | 37 | 54 | 25 | 33 | 40 | 30 | 34 |
| A85-193023 | 25 | 33 | 31 | 45 | 19 | 24 | 27 | 24 | 27 |
| A85-291001 | 30 | 38 | 38 | 48 | 25 | 30 | 33 | 30 | 33 |
| A86-102004 | 28 | 35 | 31 | 44 | 22 | 27 | 25 | 25 | 28 |
| A86-103002 | 27 | 37 | 29 | 45 | 19 | 24 | 24 | 27 | 27 |
| A86-103027 | 28 | 35 | 35 | 48 | 20 | 24 | 29 | 30 | 22 |
| A86-104011 | 27 | 33 | 29 | 42 | 24 | 22 | 25 | 24 | 28 |
| A86-203004 | 26 | 36 | 32 | 36 | 23 | 30 | 36 | 29 | 32 |
| A86-203034 | 33 | 39 | 38 | 49 | 25 | 32 | 36 | 30 | 34 |
| A86-204022 | 26 | 39 | 34 | 48 | 24 | 31 | 33 | 30 | 32 |
| E85110 | 26 | 36 | 36 | 49 | 21 | 25 | 29 | 29 | 33 |
| E85171 | 27 | 37 | 35 | 45 | 25 | 25 | 32 | 29 | 31 |
| HC83-613-1 (dt) | 19 | 25 | 26 | 31 | 19 | 19 | 18 | 21 | 20 |
| HM8634 | 28 | 35 | 37 | 46 | 26 | 34 | 32 | 27 | 34 |
| HM8635 | 23 | 33 | 32 | 46 | 25 | 30 | 29 | 28 | 33 |
| HS84-6224 | 34 | 42 | 38 | 38 | 27 | 34 | 37 | 35 | 32 |
| HS84-6247 | 28 | 35 | 35 | 47 | 23 | 29 | 32 | 28 | 31 |
| LN82-9648 | 27 | 36 | 35 | 46 | 24 | 30 | 29 | 27 | 32 |
| LN84-8527 | 27 | 33 | 32 | 44 | 20 | 28 | 26 | 27 | 31 |
| LN84-15574 | 25 | 33 | 32 | 44 | 22 | 31 | 28 | 25 | 32 |
| M81-384 | 25 | 32 | 32 | 45 | 19 | 23 | 27 | 27 | 28 |

## UNIFORM TEST II, 1988

### PLANT HEIGHT (inches)

| Strain | Wooster OH | Malden Ont. | Ridge-town Ont. | State College PA | Brook-ings SD | Center-ville SD | Arling-ton WI |
|---|---|---|---|---|---|---|---|
| Elgin 87 (II) | 28 | 37 | 38 | 28 | 28 | 25 | 24 |
| Hardin | 27 | 47 | 42 | 28 | 32 | 24 | 33 |
| Hoyt (dt) | 15 | 28 | 29 | 23 | 25 | 20 | 29 |
| Zane (III) | 30 | 42 | 41 | 32 | 33 | 27 | 36 |
| Amcor (Dt) | 37 | 47 | 48 | 32 | 33 | 29 | 37 |
| HC Amcor (Dt) | 36 | 46 | 46 | 34 | 35 | 33 | 34 |
| A85-193023 | 25 | 42 | 39 | 26 | 28 | 23 | 27 |
| A85-291001 | 32 | 46 | 39 | 30 | 33 | 28 | 34 |
| A86-102004 | 27 | 40 | 36 | 27 | 29 | 25 | 29 |
| A86-103002 | 29 | 38 | 36 | 26 | 29 | 27 | 27 |
| A86-103027 | 26 | 43 | 38 | 29 | 27 | 28 | 28 |
| A86-104011 | 23 | 35 | 33 | 25 | 26 | 20 | 26 |
| A86-203004 | 30 | 45 | 43 | 32 | 31 | 28 | 31 |
| A86-203034 | 35 | 47 | 45 | 31 | 34 | 30 | 33 |
| A86-204022 | 31 | 44 | 41 | 32 | 33 | 24 | 35 |
| E85110 | 30 | 46 | 42 | 32 | 28 | 24 | 32 |
| E85171 | 29 | 45 | 43 | 31 | 32 | 30 | 31 |
| HC83-613-1 (dt) | 14 | 28 | 27 | 24 | 22 | 24 | 23 |
| HM8634 | 28 | 44 | 40 | 31 | 33 | 27 | 35 |
| HM8635 | 29 | 43 | 39 | 29 | 33 | 28 | 35 |
| HS84-6224 | 35 | 48 | 44 | 33 | 34 | 30 | 33 |
| HS84-6247 | 28 | 43 | 37 | 30 | 33 | 28 | 33 |
| LN82-9648 | 28 | 44 | 38 | 30 | 35 | 28 | 32 |
| LN84-8527 | 28 | 41 | 39 | 30 | 29 | 23 | 34 |
| LN84-15574 | 28 | 41 | 39 | 27 | 30 | 25 | 30 |
| M81-384 | 23 | 43 | 40 | 29 | 26 | 24 | 28 |

## UNIFORM TEST II, 1988

### SEED QUALITY (score)

| Strain | Mean 22 Tests | Ames IA | Halbur IA | Marshall-town IA | Dekalb IL | Pontiac IL | Urbana IL |
|---|---|---|---|---|---|---|---|
| Elgin 87 (II) | 2.2 | 3.0 | 2.4 | 1.4 | 1.5 | 4.4 | 4.0 |
| Hardin | 2.5 | 3.5 | 2.2 | 2.6 | 1.5 | 4.0 | 3.6 |
| Hoyt (dt) | 1.7 | 2.0 | 1.6 | 1.6 | 1.5 | 1.5 | 2.0 |
| Zane (III) | 2.2 | 3.6 | 3.4 | 1.8 | 1.5 | 4.1 | 3.8 |
| Amcor (Dt) | 2.3 | 3.2 | 3.5 | 2.3 | 1.5 | 4.2 | 3.4 |
| HC Amcor (Dt) | 2.3 | 4.0 | 2.4 | 2.0 | 1.8 | 4.2 | 3.9 |
| A85-193023 | 2.9 | 4.3 | 2.0 | 3.7 | 1.5 | 4.9 | 4.0 |
| A85-291001 | 2.4 | 3.5 | 2.3 | 2.2 | 1.5 | 4.5 | 4.0 |
| A86-102004 | 2.2 | 2.2 | 3.1 | 2.8 | 1.8 | 1.9 | 2.6 |
| A86-103002 | 2.6 | 3.7 | 2.9 | 3.0 | 1.8 | 4.6 | 3.5 |
| A86-103027 | 2.3 | 2.6 | 2.2 | 2.0 | 1.8 | 4.3 | 4.0 |
| A86-104011 | 2.2 | 2.7 | 3.6 | 2.3 | 1.5 | 1.8 | 2.5 |
| A86-203004 | 2.2 | 3.6 | 3.3 | 2.3 | 1.7 | 4.0 | 4.0 |
| A86-203034 | 2.1 | 3.6 | 2.1 | 1.7 | 1.5 | 3.3 | 3.6 |
| A86-204022 | 2.0 | 3.7 | 1.7 | 2.2 | 1.5 | 3.3 | 3.2 |
| E85110 | 2.1 | 2.2 | 1.8 | 1.4 | 1.5 | 4.2 | 3.1 |
| E85171 | 2.2 | 3.8 | 2.5 | 2.6 | 1.5 | 4.2 | 3.3 |
| HC83-613-1 (dt) | 1.7 | 3.1 | 1.6 | 1.6 | 1.5 | 1.6 | 2.8 |
| HM8634 | 2.5 | 5.0 | 3.7 | 1.6 | 2.0 | 3.8 | 4.1 |
| HM8635 | 2.5 | 4.8 | 3.9 | 1.4 | 1.9 | 4.8 | 4.7 |
| HS84-6224 | 1.8 | 3.1 | 2.9 | 1.5 | 1.5 | 2.0 | 2.5 |
| HS84-6247 | 2.2 | 4.2 | 3.8 | 1.3 | 1.5 | 4.1 | 4.1 |
| LN82-9648 | 1.8 | 3.1 | 2.3 | 1.4 | 1.5 | 1.7 | 2.9 |
| LN84-8527 | 1.9 | 2.3 | 2.0 | 1.8 | 1.5 | 3.3 | 3.7 |
| LN84-15574 | 1.7 | 3.2 | 1.4 | 1.2 | 1.5 | 2.2 | 2.8 |
| M81-384 | 2.2 | 3.0 | 2.0 | 2.0 | 1.7 | 4.3 | 3.3 |

## UNIFORM TEST II, 1988

### SEED QUALITY (score)

| Strain | Bluff-ton IN | Lafay-ette IN | Britton MI | Saginaw MI | Lamber-ton MN | Waseca MN | Mead NE | Adel-phia NJ | Hoyt-ville OH |
|---|---|---|---|---|---|---|---|---|---|
| Elgin 87 (II) | 1.5 | 1.5 | 1.5 | 1.0 | 4.7 | 3.7 | 2.0 | 1.0 | 3.7 |
| Hardin | 2.0 | 2.0 | 2.3 | 1.0 | 4.0 | 4.0 | 3.0 | 1.0 | 2.8 |
| Hoyt (dt) | 1.0 | 1.5 | 2.0 | 1.0 | 3.0 | 2.0 | 2.2 | 1.0 | 2.9 |
| Zane (III) | 1.0 | 1.5 | 1.0 | 1.0 | 3.7 | 2.3 | 2.7 | 1.0 | 3.0 |
| Amcor (Dt) | 1.5 | 1.5 | 1.0 | 1.5 | 4.7 | 2.7 | 2.0 | 1.7 | 2.4 |
| HC Amcor (Dt) | 1.0 | 1.5 | 1.0 | 1.3 | 4.7 | 2.7 | 2.2 | 1.3 | 2.3 |
| A85-193023 | 2.5 | 2.5 | 3.3 | 1.0 | 4.7 | 4.0 | 2.7 | 1.3 | 3.8 |
| A85-291001 | 1.5 | 2.0 | 1.8 | 1.0 | 4.7 | 3.7 | 2.3 | 1.0 | 2.0 |
| A86-102004 | 1.0 | 2.0 | 1.0 | 1.0 | 3.7 | 3.3 | 2.3 | 3.0 | 2.4 |
| A86-103002 | 1.0 | 1.5 | 3.0 | 1.0 | 4.3 | 4.0 | 2.7 | 2.3 | 3.3 |
| A86-103027 | 2.0 | 1.5 | 1.0 | 1.0 | 4.3 | 3.7 | 2.5 | 2.0 | 2.5 |
| A86-104011 | 1.0 | 1.5 | 1.0 | 1.3 | 3.3 | 3.0 | 2.2 | 3.0 | 2.6 |
| A86-203004 | 1.0 | 1.5 | 1.0 | 1.0 | 3.3 | 2.3 | 2.8 | 1.3 | 3.5 |
| A86-203034 | 1.0 | 1.5 | 1.0 | 1.0 | 4.3 | 2.3 | 2.3 | 1.0 | 3.8 |
| A86-204022 | 1.0 | 2.0 | 1.0 | 1.0 | 3.7 | 2.0 | 2.7 | 1.0 | 2.5 |
| E85110 | 2.0 | 1.5 | 1.5 | 2.0 | 4.3 | 2.3 | 2.3 | 1.7 | 2.4 |
| E85171 | 1.0 | 2.0 | 1.0 | 1.0 | 4.0 | 3.0 | 2.3 | 1.3 | 2.7 |
| HC83-613-1 (dt) | 1.0 | 1.5 | 1.3 | 1.0 | 2.7 | 2.3 | 1.5 | 1.0 | 2.3 |
| HM8634 | 2.0 | 2.0 | 1.0 | 1.0 | 3.3 | 2.3 | 2.3 | 1.3 | 4.0 |
| HM8635 | 2.5 | 2.0 | 1.0 | 1.0 | 3.3 | 2.0 | 2.3 | 1.0 | 3.8 |
| HS84-6224 | 1.0 | 1.5 | 1.0 | 1.3 | 2.3 | 2.0 | 2.0 | 1.0 | 2.7 |
| HS84-6247 | 2.0 | 2.0 | 1.3 | 1.0 | 2.3 | 2.3 | 2.3 | 1.3 | 3.2 |
| LN82-9648 | 1.0 | 2.0 | 1.0 | 1.0 | 3.3 | 1.7 | 1.7 | 1.7 | 4.0 |
| LN84-8527 | 1.0 | 1.0 | 1.3 | 1.0 | 4.3 | 2.0 | 2.2 | 1.0 | 2.8 |
| LN84-15574 | 1.0 | 1.0 | 1.5 | 1.0 | 2.3 | 1.7 | 1.3 | 1.0 | 2.4 |
| M81-384 | 2.0 | 2.0 | 1.0 | 1.0 | 3.3 | 4.3 | 2.3 | 2.0 | 2.6 |

## UNIFORM TEST II, 1988

### SEED QUALITY (score)

| Strain | Wooster OH | Malden Ont. | Ridge-town Ont. | State College PA | Brook-ings SD | Center-ville SD | Arling-ton WI |
|---|---|---|---|---|---|---|---|
| Elgin 87 (II) | 1.3 | 1.3 | 1.0 | 2.0 | 1.0 | 3.0 | 2.3 |
| Hardin | 2.0 | 1.7 | 2.0 | 2.0 | 1.0 | 4.0 | 3.0 |
| Hoyt (dt) | 1.5 | 1.3 | 1.0 | 2.0 | 1.0 | 3.0 | 1.0 |
| Zane (III) | 2.8 | 2.0 | 1.0 | 2.0 | 1.0 | 2.0 | 1.7 |
| Amcor (Dt) | 1.6 | 2.0 | 1.0 | 1.5 | 1.0 | 4.0 | 2.0 |
| HC Amcor (Dt) | 1.9 | 2.0 | 1.0 | 2.0 | 1.0 | 4.0 | 2.0 |
| A85-193023 | 3.2 | 2.0 | 2.0 | 2.0 | 1.0 | 4.0 | 4.3 |
| A85-291001 | 2.0 | 2.0 | 1.0 | 2.0 | 1.0 | 4.0 | 2.0 |
| A86-102004 | 2.0 | 1.3 | 1.0 | 2.0 | 2.0 | 4.0 | 1.0 |
| A86-103002 | 1.5 | 1.3 | 1.0 | 2.0 | 1.0 | 4.0 | 2.7 |
| A86-103027 | 2.1 | 1.3 | 1.0 | 2.0 | 1.0 | 4.0 | 2.0 |
| A86-104011 | 2.2 | 2.0 | 1.0 | 2.0 | 2.0 | 4.0 | 1.0 |
| A86-203004 | 2.3 | 2.0 | 1.0 | 2.0 | 1.0 | 2.0 | 1.0 |
| A86-203034 | 1.4 | 2.0 | 1.0 | 1.5 | 1.0 | 4.0 | 1.7 |
| A86-204022 | 2.2 | 1.7 | 1.0 | 2.0 | 1.0 | 3.0 | 1.3 |
| E85110 | 2.0 | 1.3 | 1.0 | 2.0 | 1.0 | 3.0 | 1.0 |
| E85171 | 2.4 | 1.7 | 1.0 | 2.0 | 1.0 | 3.0 | 1.0 |
| HC83-613-1 (dt) | 1.8 | 1.0 | 1.0 | 2.0 | 1.0 | 2.0 | 2.0 |
| HM8634 | 2.0 | 2.3 | 1.0 | 2.0 | 2.0 | 4.0 | 1.3 |
| HM8635 | 2.3 | 2.3 | 1.0 | 2.0 | 1.0 | 4.0 | 2.0 |
| HS84-6224 | 2.0 | 2.0 | 1.0 | 2.0 | 1.0 | 2.0 | 1.3 |
| HS84-6247 | 1.8 | 1.3 | 1.0 | 1.5 | 1.0 | 3.0 | 1.0 |
| LN82-9648 | 1.5 | 1.3 | 1.0 | 1.5 | 1.0 | 2.0 | 1.0 |
| LN84-8527 | 2.3 | 1.3 | 1.0 | 1.5 | 1.0 | 3.0 | 1.0 |
| LN84-15574 | 2.4 | 2.3 | 1.0 | 2.0 | 1.0 | 2.0 | 1.0 |
| M81-384 | 1.7 | 1.0 | 1.0 | 2.0 | 1.0 | 4.0 | 1.7 |

## UNIFORM TEST II, 1988

### SEED SIZE (g/100)

| Strain | Mean 22 Tests | Ames IA | Halbur IA | Marshall-town IA | Dekalb IL | Pontiac IL | Urbana IL |
|---|---|---|---|---|---|---|---|
| Elgin 87 (II) | 14.5 | 11.8 | 15.3 | 14.1 | 16.7 | 9.4 | 10.9 |
| Hardin | 13.9 | 12.7 | 16.5 | 13.2 | 16.7 | 9.5 | 12.2 |
| Hoyt (dt) | 13.9 | 12.2 | 14.5 | 12.3 | 14.5 | 9.0 | 10.4 |
| Zane (III) | 17.6 | 14.7 | 19.2 | 17.8 | 21.3 | 11.8 | 12.5 |
| Amcor (Dt) | 15.6 | 12.8 | 15.5 | 16.0 | 18.1 | 11.1 | 11.9 |
| HC Amcor (Dt) | 15.3 | 12.5 | 16.1 | 15.4 | 18.7 | 11.7 | 11.0 |
| A85-193023 | 14.8 | 13.6 | 16.1 | 13.0 | 17.6 | 9.6 | 10.8 |
| A85-291001 | 14.1 | 13.9 | 14.4 | 12.9 | 15.9 | 8.6 | 9.8 |
| A86-102004 | 16.3 | 13.9 | 17.2 | 15.9 | 17.7 | 12.1 | 13.1 |
| A86-103002 | 16.1 | 13.8 | 17.0 | 16.1 | 18.8 | 11.0 | 12.7 |
| A86-103027 | 15.7 | 13.5 | 16.5 | 15.3 | 18.4 | 9.9 | 11.2 |
| A86-104011 | 17.7 | 13.9 | 18.8 | 16.8 | 20.2 | 13.2 | 14.1 |
| A86-203004 | 16.5 | 13.6 | 17.6 | 17.2 | 20.1 | 11.3 | 10.0 |
| A86-203034 | 17.6 | 13.4 | 17.6 | 17.9 | 20.8 | 13.1 | 12.8 |
| A86-204022 | 17.1 | 14.0 | 19.0 | 17.8 | 20.8 | 13.9 | 12.2 |
| E85110 | 16.2 | 13.3 | 17.6 | 14.6 | 18.9 | 10.3 | 11.7 |
| E85171 | 16.2 | 13.0 | 18.8 | 15.2 | 18.6 | 11.4 | 12.2 |
| HC83-613-1 (dt) | 15.7 | 13.8 | 16.7 | 15.4 | 17.6 | 12.0 | 10.8 |
| HM8634 | 17.9 | 14.6 | 20.0 | 18.5 | 22.2 | 13.1 | 12.0 |
| HM8635 | 18.5 | 14.8 | 19.6 | 18.6 | 22.2 | 12.2 | 11.7 |
| HS84-6224 | 16.3 | 13.5 | 18.1 | 17.2 | 20.5 | 12.7 | 10.7 |
| HS84-6247 | 17.3 | 13.6 | 18.6 | 17.0 | 20.3 | 12.1 | 11.8 |
| LN82-9648 | 16.5 | 13.6 | 17.1 | 16.6 | 20.1 | 13.5 | 11.7 |
| LN84-8527 | 17.2 | 13.7 | 19.3 | 16.6 | 20.3 | 11.9 | 11.8 |
| LN84-15574 | 12.8 | 10.6 | 13.0 | 11.5 | 14.8 | 8.0 | 8.4 |
| M81-384 | 16.7 | 14.2 | 18.1 | 16.6 | 19.1 | 11.4 | 14.4 |

## UNIFORM TEST II, 1988

### SEED SIZE (g/100)

| Strain | Bluff-ton IN | Lafay-ette IN | Britton MI | Saginaw MI | Lamber-ton MN | Waseca MN | Mead NE | Adel-phia NJ | Hoyt-ville OH |
|---|---|---|---|---|---|---|---|---|---|
| Elgin 87 (II) | 12.0 | 12.7 | 15.3 | 17.7 | 14.0 | 15.1 | 15.3 | 16.3 | 9.1 |
| Hardin | 9.7 | 13.4 | 13.8 | 16.2 | 13.0 | 14.0 | 15.7 | 14.0 | 9.9 |
| Hoyt (dt) | 11.2 | 11.9 | 15.0 | 15.5 | 13.7 | 15.5 | 19.5 | 15.0 | 9.5 |
| Zane (III) | 14.2 | 14.7 | 19.4 | 20.9 | 13.9 | 17.4 | 20.6 | 20.7 | 11.4 |
| Amcor (Dt) | 13.3 | 14.8 | 16.8 | 17.0 | 13.9 | 15.0 | 16.0 | 17.0 | 12.0 |
| HC Amcor (Dt) | 13.6 | 14.6 | 16.5 | 17.2 | 11.0 | 16.2 | 16.4 | 17.3 | 10.6 |
| A85-193023 | 11.7 | 12.8 | 15.1 | 18.4 | 15.1 | 16.4 | 15.9 | 16.0 | 8.5 |
| A85-291001 | 11.6 | 11.6 | 14.5 | 16.2 | 13.0 | 14.2 | 15.2 | 20.7 | 10.6 |
| A86-102004 | 13.0 | 14.2 | 17.1 | 18.8 | 15.6 | 18.9 | 17.5 | 17.7 | 11.4 |
| A86-103002 | 13.9 | 14.2 | 16.8 | 20.3 | 13.3 | 15.7 | 18.4 | 18.3 | 10.8 |
| A86-103027 | 12.7 | 13.6 | 17.7 | 18.5 | 14.5 | 16.9 | 16.4 | 17.0 | 9.7 |
| A86-104011 | 15.1 | 13.7 | 19.4 | 20.2 | 18.1 | 20.2 | 19.5 | 19.0 | 11.0 |
| A86-203004 | 14.4 | 14.0 | 17.9 | 20.3 | 13.4 | 15.3 | 17.9 | 21.3 | 10.7 |
| A86-203034 | 15.1 | 16.2 | 19.8 | 20.4 | 14.1 | 18.3 | 18.0 | 22.0 | 10.1 |
| A86-204022 | 13.8 | 14.6 | 18.7 | 19.4 | 13.8 | 16.1 | 19.2 | 20.7 | 11.6 |
| E85110 | 14.0 | 13.7 | 17.0 | 18.7 | 15.4 | 18.5 | 18.6 | 17.7 | 12.1 |
| E85171 | 12.5 | 13.4 | 17.3 | 18.9 | 15.9 | 18.3 | 19.9 | 17.7 | 9.1 |
| HC83-613-1 (dt) | 14.3 | 13.3 | 17.1 | 18.5 | 13.8 | 16.8 | 18.5 | 18.0 | 11.8 |
| HM8634 | 14.4 | 16.8 | 20.3 | 21.4 | 15.6 | 17.2 | 20.3 | 21.0 | 10.6 |
| HM8635 | 13.6 | 13.9 | 19.6 | 21.2 | 14.9 | 18.3 | 20.9 | 22.0 | 12.2 |
| HS84-6224 | 14.3 | 12.7 | 18.6 | 19.2 | 13.2 | 15.4 | 17.8 | 18.3 | 12.0 |
| HS84-6247 | 14.7 | 16.9 | 19.0 | 20.1 | 15.5 | 18.0 | 19.6 | 19.7 | 10.5 |
| LN82-9648 | 13.7 | 14.7 | 18.7 | 19.9 | 13.5 | 15.4 | 18.0 | 19.0 | 10.2 |
| LN84-8527 | 14.1 | 13.2 | 18.9 | 19.8 | 16.5 | 18.7 | 21.1 | 19.3 | 11.5 |
| LN84-15574 | 11.6 | 11.5 | 14.5 | 15.6 | 12.5 | 12.4 | 14.5 | 15.3 | 7.5 |
| M81-384 | 12.6 | 13.8 | 17.4 | 19.5 | 15.4 | 20.0 | 18.8 | 18.3 | 8.5 |

## UNIFORM TEST II, 1988

### SEED SIZE (g/100)

| Strain | Wooster OH | Malden Ont. | Ridge-town Ont. | State College PA | Brook-ings SD | Center-ville SD | Arling-ton WI |
|---|---|---|---|---|---|---|---|
| Elgin 87 (II) | 12.8 | 16.5 | 16.6 | 19.2 | 16.1 | 18.2 | 13.8 |
| Hardin | 13.1 | 15.5 | 15.0 | 16.4 | 15.9 | 16.9 | 13.5 |
| Hoyt (dt) | 13.6 | 15.5 | 14.2 | 17.2 | 13.8 | 19.7 | 12.7 |
| Zane (III) | 17.7 | 20.0 | 19.6 | 21.7 | 20.2 | 21.2 | 17.1 |
| Amcor (Dt) | 17.7 | 16.8 | 17.1 | 19.3 | 16.9 | 19.8 | 13.9 |
| HC Amcor (Dt) | 15.1 | 17.1 | 16.5 | 18.1 | 16.7 | 18.6 | 14.6 |
| A85-193023 | 14.6 | 16.8 | 17.1 | 16.0 | 16.8 | 19.7 | 13.5 |
| A85-291001 | 14.2 | 15.1 | 15.1 | 17.5 | 15.0 | 16.3 | 12.8 |
| A86-102004 | 16.0 | 17.4 | 17.1 | 19.4 | 17.8 | 19.8 | 16.0 |
| A86-103002 | 16.7 | 17.2 | 17.0 | 18.8 | 18.4 | 21.3 | 14.3 |
| A86-103027 | 15.8 | 16.8 | 16.5 | 18.4 | 18.6 | 21.2 | 16.0 |
| A86-104011 | 16.5 | 18.5 | 17.9 | 20.2 | 21.0 | 23.8 | 17.6 |
| A86-203004 | 17.9 | 18.6 | 17.9 | 21.5 | 17.8 | 19.5 | 15.1 |
| A86-203034 | 18.9 | 19.9 | 19.4 | 23.2 | 19.4 | 20.1 | 16.3 |
| A86-204022 | 15.1 | 18.9 | 18.7 | 21.8 | 19.2 | 20.9 | 16.3 |
| E85110 | 17.6 | 17.7 | 16.5 | 19.3 | 18.0 | 21.1 | 15.1 |
| E85171 | 15.2 | 18.8 | 17.4 | 17.4 | 17.9 | 20.9 | 16.2 |
| HC83-613-1 (dt) | 15.1 | 16.0 | 16.2 | 20.0 | 16.9 | 18.8 | 14.7 |
| HM8634 | 16.9 | 20.7 | 18.0 | 21.5 | 19.7 | 21.4 | 16.9 |
| HM8635 | 18.6 | 21.3 | 19.5 | 23.2 | 29.7 | 21.5 | 16.8 |
| HS84-6224 | 18.1 | 18.7 | 16.7 | 19.6 | 16.8 | 19.8 | 15.2 |
| HS84-6247 | 17.1 | 19.1 | 17.8 | 21.8 | 18.9 | 21.2 | 16.5 |
| LN82-9648 | 17.5 | 18.2 | 18.7 | 20.4 | 17.9 | 19.0 | 15.0 |
| LN84-8527 | 16.1 | 18.4 | 17.4 | 21.0 | 19.6 | 22.7 | 17.1 |
| LN84-15574 | 11.7 | 14.3 | 14.3 | 17.1 | 14.3 | 15.6 | 11.7 |
| M81-384 | 15.7 | 18.4 | 16.7 | 19.5 | 20.2 | 21.9 | 16.8 |

## UNIFORM TEST II, 1988

### PROTEIN (%)

| Strain | Mean 5 Tests | Ames IA | Urbana IL | Lafayette IN | Mead NE | Hoytville OH |
|---|---|---|---|---|---|---|
| Elgin 87 (II) | 39.1 | 38.8 | 41.3 | 41.6 | 37.5 | 36.2 |
| Hardin | 40.2 | 39.0 | 40.4 | 43.0 | 38.1 | 40.7 |
| Hoyt (dt) | 41.7 | 41.5 | 42.9 | 43.1 | 41.5 | 39.3 |
| Zane (III) | 40.9 | 40.2 | 43.5 | 42.0 | 40.7 | 38.2 |
| Amcor (Dt) | 39.3 | 39.5 | 41.4 | 40.9 | 37.8 | 37.0 |
| HC Amcor (Dt) | 40.3 | 41.2 | 42.0 | 41.2 | 38.8 | 38.1 |
| A85-193023 | 40.0 | 39.3 | 42.0 | 42.7 | 37.5 | 38.4 |
| A85-291001 | 38.6 | 37.5 | 40.8 | 41.7 | 38.2 | 34.9 |
| A86-102004 | 38.1 | 38.3 | 40.2 | 39.8 | 38.0 | 34.0 |
| A86-103002 | 40.8 | 39.1 | 40.9 | 44.0 | 40.5 | 39.5 |
| A86-103027 | 40.4 | 39.5 | 43.3 | 42.0 | 39.4 | 37.9 |
| A86-104011 | 39.9 | 39.0 | 40.6 | 42.0 | 38.8 | 39.2 |
| A86-203004 | 41.0 | 40.5 | 41.8 | 43.1 | 41.0 | 38.8 |
| A86-203034 | 41.0 | 41.2 | 41.1 | 42.6 | 40.1 | 39.8 |
| A86-204022 | 40.6 | 40.3 | 41.1 | 43.2 | 39.7 | 38.6 |
| E85110 | 40.1 | 39.9 | 40.7 | 43.5 | 39.8 | 36.7 |
| E85171 | 39.9 | 39.9 | 40.4 | 42.2 | 39.2 | 37.8 |
| HC83-613-1 (dt) | 40.6 | 39.0 | 41.7 | 42.0 | 39.1 | 41.0 |
| HM8634 | 41.3 | 41.1 | 43.1 | 42.7 | 40.9 | 38.6 |
| HM8635 | 41.1 | 39.3 | 42.5 | 43.0 | 41.3 | 39.3 |
| HS84-6224 | 40.1 | 38.7 | 41.5 | 42.4 | 41.1 | 36.8 |
| HS84-6247 | 40.0 | 39.5 | 42.1 | 41.9 | 40.5 | 36.2 |
| LN82-9648 | 42.3 | 41.5 | 42.7 | 45.2 | 42.7 | 39.2 |
| LN84-8527 | 40.6 | 39.4 | 41.5 | 42.2 | 40.0 | 40.1 |
| LN84-15574 | 40.7 | 38.7 | 41.5 | 43.4 | 41.2 | 38.5 |
| M81-384 | 39.7 | 38.9 | 39.9 | 42.8 | 37.8 | 39.0 |

## UNIFORM TEST II, 1988

### OIL (%)

| Strain | Mean 5 Tests | Ames IA | Urbana IL | Lafayette IN | Mead NE | Hoytville OH |
|---|---|---|---|---|---|---|
| Elgin 87 (II) | 22.2 | 22.3 | 20.9 | 21.9 | 23.6 | 22.2 |
| Hardin | 22.5 | 22.2 | 22.5 | 21.3 | 24.5 | 22.1 |
| Hoyt (dt) | 22.0 | 23.0 | 21.4 | 21.1 | 22.0 | 22.6 |
| Zane (III) | 21.7 | 22.6 | 20.6 | 21.1 | 21.5 | 22.6 |
| Amcor (Dt) | 21.9 | 21.3 | 20.8 | 20.8 | 22.7 | 23.9 |
| HC Amcor (Dt) | 21.1 | 20.3 | 20.6 | 20.6 | 21.8 | 22.4 |
| A85-193023 | 22.7 | 22.1 | 21.9 | 22.4 | 24.3 | 22.9 |
| A85-291001 | 22.5 | 22.0 | 21.3 | 21.4 | 24.3 | 23.6 |
| A86-102004 | 23.0 | 23.1 | 22.2 | 22.1 | 23.3 | 24.4 |
| A86-103002 | 21.4 | 22.1 | 22.2 | 19.6 | 21.4 | 21.9 |
| A86-103027 | 22.2 | 23.0 | 20.0 | 21.5 | 23.0 | 23.7 |
| A86-104011 | 21.7 | 22.3 | 21.8 | 21.1 | 22.5 | 20.7 |
| A86-203004 | 21.4 | 21.6 | 20.9 | 21.2 | 21.5 | 22.0 |
| A86-203034 | 21.0 | 20.5 | 20.8 | 19.4 | 22.0 | 22.3 |
| A86-204022 | 21.2 | 21.8 | 20.8 | 19.9 | 21.8 | 21.5 |
| E85110 | 22.5 | 22.9 | 21.9 | 21.0 | 23.0 | 23.6 |
| E85171 | 21.8 | 20.9 | 21.3 | 21.3 | 22.5 | 23.2 |
| HC83-613-1 (dt) | 21.9 | 22.5 | 20.0 | 21.6 | 23.7 | 21.5 |
| HM8634 | 20.8 | 20.5 | 19.0 | 20.5 | 21.4 | 22.5 |
| HM8635 | 21.0 | 21.6 | 19.3 | 20.1 | 22.3 | 21.8 |
| HS84-6224 | 21.1 | 22.4 | 19.3 | 20.2 | 21.0 | 22.7 |
| HS84-6247 | 21.7 | 22.1 | 20.6 | 21.1 | 21.8 | 22.8 |
| LN82-9648 | 20.3 | 20.0 | 19.5 | 19.1 | 20.3 | 22.4 |
| LN84-8527 | 21.6 | 21.7 | 21.3 | 21.8 | 22.8 | 20.6 |
| LN84-15574 | 20.9 | 21.0 | 19.6 | 20.5 | 21.0 | 22.6 |
| M81-384 | 22.3 | 22.0 | 22.4 | 21.4 | 24.5 | 21.3 |

## UNIFORM PRELIMINARY TEST IIA, 1988

| Strain | Parentage | Generation Composited | Unique Traits |
|---|---|---|---|
| Elgin 87 (II) | Elgin (5) x Williams 82 | BC4 F2 | Rps1-k |
| Hardin (I) | Corsoy (3) Cutler 71 | F5 | |
| Zane (III) | Cumberland xPella | F5 | |
| A87-197001 | A80-244003 x Harper | F5 | |
| A87-197018 | Pride B152 x A80-244003 | F5 | |
| A87-198013 | A80-244003 x Asgrow A3659 | F5 | |
| A87-199024 | A80-244003 x Hack | F5 | |
| A87-295015 | Jacques J103 x BSR 101 | F5 | Fe Chlor. Resis. |
| A87-296011 | Harper x A80-346029 | F5 | BSR Resis. |
| A87-296012 | Harper x A80-346029 | F5 | BSR Resis. |
| A87-296035 | A81-257010 x Jacques J103 | F5 | BSR Resis. |
| A87-297015 | Pride B152 x A80-244003 | F5 | |
| LN84-7254 | Hack x Elgin | F5 | Rps1 |
| LN84-8147 | Hack x Harper | F5 | |
| LN84-10342 | Williams 82 x LN80-8309 | F5 | Rps1 ? |
| LN85-5305 | LNX8107 x LN80-7532 | F5 | PR 1,3 Resis. |
| LN85-6037 | LNX8107 x LN80-7532 | F5 | PR 1,3 Resis. |
| LN85-6226 | LNX8132 x A80-244003 | F5 | |
| LN85-6253 | LNX8132 x A80-244003 | F5 | |
| LN85-6259 | LNX8132 x A80-244003 | F5 | |
| LN85-6347 | LNX8132 x A80-244003 | F5 | |
| LN85-6377 | LNX8132 x A80-244003 | F5 | |
| LN85-6479 | LNX8132 x A80-244003 | F5 | |
| LN85-7289 | LNX8138 x A80-244003 | F5 | Rps1 |
| LN85-7295 | LNX8138 x A80-244003 | F5 | PR 1,3 Resis. |
| LN85-7445 | LNX8138 x A80-244003 | F5 | PR 1 Resis. |
| LN85-7755 | LNX8138 x A80-244003 | F5 | Rps1 |
| LN85-7832 | LNX8138 x A80-244003 | F5 | PR 1,3 Resis. |
| LN85-9674 | LNX8141 x LN80-7532 | F5 | Rps1 |
| LN85-10234 | LNX8179 x A80-244003 | F5 | Rps1 |
| U85-64055 | U46762 x C1514 | F5 | |
| U85-68023 | Platte x Asgrow A3127 | F5 | |
| U85-68024 | Platte x Asgrow A3127 | F5 | |

## UNIFORM PRELIMINARY TEST IIA, 1988

### DESCRIPTIVE AND DISEASE DATA

| Strain | Descriptive Code | Chlorosis Score Ames | Shattering Score Manhattan | BSR - Ames Plant n % | BSR - Ames Stem n % |
|---|---|---|---|---|---|
| Elgin 87 (II) | PTBSYBl | 3.0 | 1 | 100 | 54.0 |
| Hardin (I) | PGBSYY | 2.0 | 1 | 100 | 58.9 |
| Zane (III) | PGBSYIb | 3.0 | 1 | 90 | 64.0 |
| A87-197001 | PTBSYBl | 3.3 | 1 | 70 | 37.0 |
| A87-197018 | WG+TTDYBl+Bf | 4.7 | 2 | 100 | 58.0 |
| A87-198013 | WTTSYBl | 2.7 | 1 | 100 | 57.5 |
| A87-199024 | WG+TBSYBl | 4.8 | 2 | 100 | 57.8 |
| A87-295015 | WGBSYBf | 1.7 | 2 | 100 | 47.6 |
| A87-296011 | PTBDYBr | 3.0 | 1 | 100 | 51.6 |
| A87-296012 | WTBDYBl+Bf | 3.3 | 1 | 70 | 38.4 |
| A87-296035 | PGBDYIb | 1.7 | 1 | 100 | 68.2 |
| A87-297015 | PTBDYBr | 4.0 | 1 | 70 | 55.8 |
| LN84-7254 | P+WTBSYBl | 3.7 | 1 | 100 | 70.3 |
| LN84-8147 | PGBSYIb | 2.8 | 1 | 80 | 65.0 |
| LN84-10342 | PTBSYBl | 2.7 | 1 | 100 | 72.0 |
| LN85-5305 | PTBSYBl | 2.5 | 1 | 100 | 72.9 |
| LN85-6037 | PGBSYIb | 2.0 | 1 | 100 | 36.4 |
| LN85-6226 | WGBDYBf | 3.8 | 1 | 70 | 29.4 |
| LN85-6253 | WGBSYBf | 4.0 | 2 | 100 | 40.4 |
| LN85-6259 | WGBDYBf | 4.3 | 2 | 80 | 13.1 |
| LN85-6347 | WTBSYBr | 3.8 | 2 | 70 | 17.7 |
| LN85-6377 | PGBSYIb | 4.0 | 1 | 90 | 50.9 |
| LN85-6479 | PGBSYBf | 4.5 | 1 | 40 | 15.7 |
| LN85-7289 | PTTSYBl | 2.5 | 1 | 90 | 24.2 |
| LN85-7295 | PGTSYIb | 3.7 | 1 | 50 | 12.7 |
| LN85-7445 | P+WTTSYBl | 3.8 | 1 | 20 | 2.1 |
| LN85-7755 | PGTSYIb | 4.0 | 2 | 80 | 44.6 |
| LN85-7832 | WTTSYBl | 3.3 | 1 | 90 | 46.9 |
| LN85-9674 | PGBSYIb | 2.5 | 1 | 90 | 61.8 |
| LN85-10234 | WTTSYBl | 4.2 | 1 | 100 | 57.2 |
| U85-64055 | PGBSYY | 1.5 | 1 | 50 | 20.7 |
| U85-68023 | PGBDYBf | 3.0 | 1 | 90 | 44.5 |
| U85-68024 | PTTSYBl | 2.3 | 1 | 90 | 54.4 |

## UNIFORM PRELIMINARY TEST IIA, 1988

### DISEASE DATA

| Strain | PR | | | | PS | PSB | SMV |
|---|---|---|---|---|---|---|---|
| | Ames | Castalia | Urbana | Lafayette | Lafayette | | |
| | Race 4 Reaction | Phyto. Tolerance | Race 1 | Race 7 | a rt | n % | a Score |
| Elgin 87 (II) | R | 4.3 | R | R | 2E | 12 | 5E |
| Hardin (I) | S | 6.0 | R | S | 3E | 18 | 1 |
| Zane (III) | S | 4.3 | S | S | 2E | 14 | 4E |
| A87-197001 | S | 4.7 | S | S | 1 | 2 | 1 |
| A87-197018 | S | 5.5 | S | S | 2E | 2 | 2M |
| A87-198013 | S | 4.0 | S | S | 2E | 0 | 5S |
| A87-199024 | S | 4.7 | R | S | 3E | 0 | 5S |
| A87-295015 | S | 4.3 | H | S | 4E | 0 | 1 |
| A87-296011 | S | 4.0 | S | S | 1 | 18 | 1 |
| A87-296012 | S | 5.8 | S | S | 2E | 12 | 1 |
| A87-296035 | S | 4.3 | S | S | 1 | 4 | 2M |
| A87-297015 | S | 5.0 | R | R | 2E | 14 | 2M |
| LN84-7254 | S | 3.5 | S | S | 2E | 6 | 1 |
| LN84-8147 | S | 5.0 | S | S | 2E | 16 | 3E |
| LN84-10342 | S | 3.3 | S | S | 2E | 20 | 2E |
| LN85-5305 | R | 4.0 | R | R | 2E | 10 | 1 |
| LN85-6037 | H | 3.8 | R | R | 2E | 14 | 2M |
| LN85-6226 | S | 4.8 | S | S | 2E | 6 | 1 |
| LN85-6253 | S | 4.5 | H | S | 2E | 0 | 3E |
| LN85-6259 | S | 5.0 | S | S | 2E | 14 | 2E |
| LN85-6347 | S | 5.0 | S | S | 2M | 14 | 2E |
| LN85-6377 | S | 4.5 | S | S | 2M | 0 | 2S |
| LN85-6479 | S | 4.5 | S | S | 2E | 0 | 5S |
| LN85-7289 | H | 4.7 | R | H | 2M | 0 | 2E |
| LN85-7295 | H | 5.7 | R | S | 2E | 2 | 1 |
| LN85-7445 | R | 4.7 | R | S | 2M | 4 | 1 |
| LN85-7755 | S | 4.8 | R | S | 2E | 2 | 5E |
| LN85-7832 | R | 4.5 | R | S | | | |
| LN85-9674 | S | 4.0 | H | S | 1 | 12 | 1 |
| LN85-10234 | S | 4.3 | R | S | 2E | 22 | 2E |
| U85-64055 | S | 4.3 | R | S | 2E | 20 | 2M |
| U85-68023 | S | 5.3 | R | S | 2E | 30 | 2M |
| U85-68024 | S | 4.4 | R | S | 1 | 24 | 1 |

# UNIFORM PRELIMINARY TEST IIA, 1988

## REGIONAL SUMMARY

| No. of Tests / Strain | Yield 11 bu/a | Rank 11 No. | Maturity 9 Date | Lodging 10 Score | Plant Height 10 In. | Seed Quality 11 Score | Seed Size 11 g/100 | Composition Protein 5 % | Composition Oil 5 % |
|---|---|---|---|---|---|---|---|---|---|
| Elgin 87 (II) | 39.4 | 11 | 09/14.6* | 1.4 | 30 | 2.1 | 13.9 | 38.5 | 21.8 |
| Hardin (I) | 35.2 | 33 | -5.3 | 1.9 | 34 | 2.6 | 13.8 | 39.2 | 22.6 |
| Zane (III) | 36.8 | 32 | 6.7 | 1.3 | 34 | 2.1 | 17.5 | 41.6 | 21.0 |
| A87-197001 | 38.8 | 14 | -2.9 | 1.1 | 32 | 2.3 | 17.3 | 39.4 | 22.2 |
| A87-197018 | 38.1 | 26 | -4.1 | 1.6 | 30 | 1.9 | 13.4 | 39.1 | 22.3 |
| A87-198013 | 38.7 | 15 | -1.3 | 1.2 | 32 | 1.8 | 14.2 | 40.7 | 20.8 |
| A87-199024 | 38.4 | 22 | -1.7 | 1.2 | 32 | 1.9 | 14.7 | 39.5 | 22.1 |
| A87-295015 | 38.5 | 18 | 4.3 | 1.5 | 35 | 2.5 | 15.7 | 39.0 | 21.7 |
| A87-296011 | 43.1 | 2 | 7.8 | 1.3 | 29 | 2.0 | 16.7 | 40.6 | 21.6 |
| A87-296012 | 40.7 | 4 | 7.8 | 1.2 | 30 | 2.1 | 16.1 | 41.7 | 21.6 |
| A87-296035 | 40.1 | 7 | 1.4 | 1.4 | 33 | 2.3 | 16.4 | 39.4 | 22.2 |
| A87-297015 | 43.4 | 1 | 3.9 | 1.2 | 33 | 2.1 | 15.4 | 39.3 | 22.0 |
| LN84-7254 | 38.5 | 18 | 1.9 | 1.1 | 29 | 1.7 | 14.5 | 38.7 | 21.9 |
| LN84-8147 | 40.5 | 5 | -0.6 | 1.1 | 30 | 1.7 | 16.0 | 40.0 | 21.9 |
| LN84-10342 | 38.2 | 24 | 2.4 | 1.3 | 35 | 1.6 | 16.2 | 41.7 | 20.5 |
| LN85-5305 | 39.1 | 12 | 5.8 | 1.6 | 33 | 2.2 | 16.3 | 42.7 | 20.1 |
| LN85-6037 | 39.0 | 13 | 9.7 | 2.0 | 35 | 2.2 | 15.4 | 42.3 | 20.1 |
| LN85-6226 | 38.0 | 27 | -1.6 | 1.4 | 34 | 1.9 | 14.7 | 40.1 | 21.7 |
| LN85-6253 | 40.0 | 8 | -0.1 | 1.2 | 34 | 1.7 | 13.8 | 40.9 | 20.7 |
| LN85-6259 | 37.5 | 28 | -2.4 | 1.5 | 34 | 1.7 | 13.2 | 39.8 | 21.1 |
| LN85-6347 | 38.4 | 22 | -3.1 | 1.4 | 33 | 1.9 | 13.3 | 40.0 | 21.6 |
| LN85-6377 | 40.3 | 6 | 1.3 | 1.3 | 34 | 1.7 | 14.5 | 41.1 | 21.6 |
| LN85-6479 | 39.5 | 10 | -1.6 | 1.5 | 33 | 1.8 | 14.6 | 40.3 | 21.6 |
| LN85-7289 | 38.5 | 18 | 0.7 | 1.3 | 32 | 2.0 | 15.3 | 40.6 | 21.2 |
| LN85-7295 | 37.3 | 30 | -1.3 | 1.4 | 33 | 2.3 | 16.1 | 41.0 | 21.3 |
| LN85-7445 | 38.6 | 17 | 0.4 | 1.3 | 32 | 1.6 | 15.5 | 41.9 | 21.0 |
| LN85-7755 | 38.5 | 18 | 2.0 | 1.3 | 34 | 1.8 | 12.9 | 40.4 | 20.7 |
| LN85-7832 | 38.2 | 24 | -0.3 | 1.2 | 30 | 1.7 | 14.0 | 41.0 | 21.3 |
| LN85-9674 | 38.7 | 15 | 2.9 | 1.1 | 31 | 2.0 | 14.8 | 39.2 | 21.8 |
| LN85-10234 | 41.9 | 3 | 3.0 | 1.5 | 36 | 1.7 | 15.5 | 40.4 | 20.2 |
| U85-64055 | 39.7 | 9 | 1.0 | 1.5 | 38 | 2.4 | 16.9 | 39.9 | 21.9 |
| U85-68023 | 37.5 | 28 | -0.6 | 1.1 | 35 | 2.1 | 14.6 | 41.1 | 21.2 |
| U85-68024 | 37.0 | 31 | -0.2 | 1.1 | 34 | 2.3 | 14.2 | 41.6 | 20.9 |

* 122.9 Days After Planting

## UNIFORM PRELIMINARY TEST IIA, 1988

### YIELD (bu/a)

| Strain | Mean 11 Tests | Ames IA | Marshall-town IA | Urbana IL | Lafay-ette IN | Britton MI |
|---|---|---|---|---|---|---|
| Elgin 87 (II) | 39.4 | 41.2 | 40.5 | 29.2 | 36.0 | 44.2 |
| Hardin (I) | 35.2 | 43.7 | 34.0 | 32.0 | 37.0 | 41.3 |
| Zane (III) | 36.8 | 31.2 | 46.6 | 19.2 | 38.4 | 43.4 |
| A87-197001 | 38.8 | 45.0 | 41.5 | 19.2 | 36.7 | 35.5 |
| A87-197018 | 38.1 | 43.5 | 40.4 | 15.2 | 32.5 | 42.0 |
| A87-198013 | 38.7 | 39.6 | 46.1 | 18.2 | 34.4 | 43.6 |
| A87-199024 | 38.4 | 37.1 | 40.1 | 19.4 | 38.4 | 39.0 |
| A87-295015 | 38.5 | 31.5 | 46.2 | 27.6 | * | 41.5 |
| A87-296011 | 43.1 | 43.3 | 55.1 | 19.3 | 44.2 | 44.3 |
| A87-296012 | 40.7 | 38.5 | 50.2 | 32.7 | 36.6 | 45.3 |
| A87-296035 | 40.1 | 36.3 | 46.7 | 25.6 | 43.2 | 43.7 |
| A87-297015 | 43.4 | 42.2 | 48.4 | 28.8 | 43.9 | 44.6 |
| LN84-7254 | 38.5 | 34.7 | 46.5 | 15.9 | 40.5 | 48.5 |
| LN84-8147 | 40.5 | 41.5 | 46.9 | 28.8 | 38.6 | 44.0 |
| LN84-10342 | 38.2 | 36.4 | 47.9 | 21.1 | 43.0 | 41.0 |
| LN85-5305 | 39.1 | 32.5 | 46.2 | 33.9 | 41.5 | 46.3 |
| LN85-6037 | 39.0 | 31.0 | 45.2 | 35.2 | 41.9 | 45.6 |
| LN85-6226 | 38.0 | 43.5 | 42.3 | 18.4 | 33.5 | 46.3 |
| LN85-6253 | 40.0 | 34.1 | 44.3 | 19.6 | 41.4 | 45.1 |
| LN85-6259 | 37.5 | 41.5 | 25.5 | 15.9 | 36.9 | 43.5 |
| LN85-6347 | 38.4 | 37.1 | 52.0 | 16.4 | 35.3 | 41.0 |
| LN85-6377 | 40.3 | 36.7 | 49.0 | 28.2 | 40.7 | 44.3 |
| LN85-6479 | 39.5 | 39.8 | 48.1 | 17.1 | 39.1 | 44.9 |
| LN85-7289 | 38.5 | 34.9 | 43.5 | 25.0 | 37.1 | 46.3 |
| LN85-7295 | 37.3 | 35.0 | 45.8 | 12.4 | 34.7 | 41.6 |
| LN85-7445 | 38.6 | 37.6 | 48.2 | 28.8 | 34.3 | 44.9 |
| LN85-7755 | 38.5 | 33.7 | 42.9 | 21.1 | 34.5 | 45.4 |
| LN85-7832 | 38.2 | 33.9 | 39.4 | 24.0 | 35.7 | 38.4 |
| LN85-9674 | 38.7 | 35.1 | 49.7 | 26.9 | 39.5 | 42.0 |
| LN85-10234 | 41.9 | 37.3 | 47.8 | 34.3 | 42.2 | 43.7 |
| U85-64055 | 39.7 | 38.5 | 44.9 | 35.8 | 40.5 | 43.0 |
| U85-68023 | 37.5 | 35.1 | 39.2 | 28.0 | 34.7 | 44.2 |
| U85-68024 | 37.0 | 37.1 | 41.6 | 21.3 | 35.1 | 39.5 |
| C.V. (%) | | 11.1 | 8.2 | 36.4 | 7.5 | 7.3 |
| L.S.D. (5%) | | 8.4 | 7.3 | ns | 5.9 | ns |
| Row Sp. (In.) | | 27 | 27 | 30 | 30 | 20 |
| Rows/Plot | | 4 | 4 | 4 | 4 | 4 |
| Reps | | 2 | 2 | 2 | 2 | 2 |

* Plot not harvested

## UNIFORM PRELIMINARY TEST IIA, 1988

### YIELD (bu/a)

| Mead NE | Adelphia NJ | Hoytville OH | Ridge-town Ont. | Center-ville SD | Arling-ton WI |
|---|---|---|---|---|---|
| 51.7 | 28.4 | 39.2 | 56.0 | 35.2 | 31.7 |
| 36.9 | 27.9 | 27.4 | 52.8 | 28.6 | 26.0 |
| 47.1 | 32.5 | 27.6 | 52.0 | 31.7 | 34.7 |
| 44.0 | 33.1 | 37.4 | 62.6 | 36.2 | 35.4 |
| 43.4 | 26.9 | 42.9 | 65.0 | 38.1 | 28.9 |
| 45.6 | 35.7 | 28.7 | 63.3 | 37.0 | 33.2 |
| 47.4 | 33.5 | 36.6 | 61.2 | 37.1 | 32.5 |
| 48.0 | 37.4 | 33.0 | 52.9 | 35.8 | 30.8 |
| 47.8 | 44.6 | 42.1 | 67.6 | 36.3 | 29.3 |
| 45.5 | 40.3 | 39.6 | 55.2 | 33.9 | 30.1 |
| 52.8 | 37.6 | 34.0 | 58.4 | 35.1 | 28.2 |
| 51.2 | 34.4 | 40.0 | 68.6 | 37.7 | 37.5 |
| 39.2 | 38.0 | 38.5 | 63.6 | 34.1 | 23.5 |
| 47.1 | 35.1 | 35.1 | 54.8 | 40.4 | 32.7 |
| 47.0 | 37.7 | 27.5 | 57.9 | 32.7 | 28.3 |
| 40.3 | 30.4 | 35.1 | 57.8 | 33.0 | 33.1 |
| 46.4 | 34.9 | 27.8 | 55.0 | 34.1 | 32.2 |
| 47.0 | 32.7 | 29.6 | 61.2 | 30.6 | 32.8 |
| 48.6 | 30.5 | 45.1 | 65.8 | 35.2 | 30.0 |
| 46.9 | 32.0 | 31.1 | 69.0 | 33.1 | 36.7 |
| 45.1 | 29.8 | 33.5 | 65.0 | 36.6 | 30.5 |
| 42.8 | 34.6 | 33.1 | 62.8 | 38.4 | 33.2 |
| 47.3 | 33.5 | 30.5 | 61.5 | 37.6 | 35.3 |
| 49.2 | 33.7 | 29.5 | 61.0 | 36.4 | 26.4 |
| 46.4 | 34.4 | 30.1 | 62.9 | 35.0 | 32.1 |
| 48.9 | 34.6 | 28.9 | 54.0 | 34.5 | 29.4 |
| 49.9 | 40.1 | 32.4 | 57.2 | 33.6 | 32.9 |
| 50.3 | 36.9 | 32.8 | 63.9 | 35.6 | 29.2 |
| 49.9 | 36.1 | 28.8 | 54.9 | 35.7 | 27.5 |
| 50.7 | 32.3 | 38.0 | 57.3 | 42.3 | 35.2 |
| 47.7 | 33.5 | 27.0 | 58.5 | 32.9 | 34.7 |
| 44.5 | 32.1 | 30.9 | 54.3 | 34.0 | 35.1 |
| 46.8 | 31.5 | 32.1 | 63.0 | 35.3 | 23.5 |
| 7.4 | 20.5 | 19.2 | 7.2 | 9.2 | 10.8 |
| 7.1 | 9.3 | 12.4 | 8.7 | ns | 6.9 |
| 30 | 30 | 15 | 24 | 30 | 30 |
| 2 | 4 | 5 | 4 | 4 | 4 |
| 2 | 2 | 2 | 2 | 2 | 2 |

## UNIFORM PRELIMINARY TEST IIA, 1988

### YIELD RANK

| Strain | Yield Rank | Ames IA | Marshall-town IA | Urbana IL | Lafay-ette IN | Britton MI |
|---|---|---|---|---|---|---|
| Elgin 87 (II) | 11 | 9 | 27 | 7 | 22 | 15 |
| Hardin (I) | 33 | 2 | 32 | 6 | 18 | 27 |
| Zane (III) | 32 | 32 | 13 | 24 | 15 | 21 |
| A87-197001 | 14 | 1 | 26 | 24 | 20 | 33 |
| A87-197018 | 26 | 3 | 28 | 32 | 32 | 23 |
| A87-198013 | 15 | 11 | 17 | 27 | 29 | 19 |
| A87-199024 | 22 | 16 | 29 | 22 | 15 | 31 |
| A87-295015 | 18 | 31 | 15 | 13 | * | 26 |
| A87-296011 | 2 | 5 | 1 | 23 | 1 | 12 |
| A87-296012 | 4 | 12 | 3 | 5 | 21 | 7 |
| A87-296035 | 7 | 21 | 12 | 15 | 3 | 17 |
| A87-297015 | 1 | 6 | 6 | 8 | 2 | 11 |
| LN84-7254 | 18 | 26 | 14 | 30 | 10 | 1 |
| LN84-8147 | 5 | 7 | 11 | 8 | 14 | 16 |
| LN84-10342 | 24 | 20 | 9 | 19 | 4 | 28 |
| LN85-5305 | 12 | 30 | 15 | 4 | 7 | 2 |
| LN85-6037 | 13 | 33 | 19 | 2 | 6 | 5 |
| LN85-6226 | 27 | 3 | 24 | 26 | 31 | 3 |
| LN85-6253 | 8 | 27 | 21 | 21 | 8 | 8 |
| LN85-6259 | 28 | 7 | 33 | 30 | 19 | 20 |
| LN85-6347 | 22 | 16 | 2 | 29 | 24 | 29 |
| LN85-6377 | 6 | 19 | 5 | 11 | 9 | 13 |
| LN85-6479 | 10 | 10 | 8 | 28 | 13 | 9 |
| LN85-7289 | 18 | 25 | 22 | 16 | 17 | 4 |
| LN85-7295 | 30 | 24 | 18 | 33 | 26 | 25 |
| LN85-7445 | 17 | 14 | 7 | 8 | 30 | 10 |
| LN85-7755 | 18 | 29 | 23 | 19 | 28 | 6 |
| LN85-7832 | 24 | 28 | 30 | 17 | 23 | 32 |
| LN85-9674 | 15 | 22 | 4 | 14 | 12 | 24 |
| LN85-10234 | 3 | 15 | 10 | 3 | 5 | 18 |
| U85-64055 | 9 | 12 | 20 | 1 | 10 | 22 |
| U85-68023 | 28 | 22 | 31 | 12 | 26 | 14 |
| U85-68024 | 31 | 16 | 25 | 18 | 25 | 30 |

## UNIFORM PRELIMINARY TEST IIA, 1988

### YIELD RANK

| Mead NE | Adelphia NJ | Hoytville OH | Ridge-town Ont. | Center-ville SD | Arling-ton WI |
|---|---|---|---|---|---|
| 2 | 31 | 6 | 24 | 17 | 18 |
| 33 | 32 | 32 | 32 | 33 | 31 |
| 16 | 23 | 30 | 33 | 31 | 7 |
| 28 | 21 | 9 | 13 | 12 | 3 |
| 29 | 33 | 2 | 5 | 4 | 26 |
| 24 | 10 | 28 | 9 | 8 | 9 |
| 14 | 18 | 10 | 15 | 7 | 15 |
| 11 | 7 | 16 | 31 | 13 | 19 |
| 12 | 1 | 3 | 3 | 11 | 24 |
| 25 | 2 | 5 | 25 | 25 | 21 |
| 1 | 6 | 13 | 19 | 19 | 28 |
| 3 | 15 | 4 | 2 | 5 | 1 |
| 32 | 4 | 7 | 8 | 22 | 32 |
| 16 | 11 | 11 | 28 | 2 | 14 |
| 18 | 5 | 31 | 20 | 30 | 27 |
| 31 | 29 | 11 | 21 | 28 | 11 |
| 22 | 12 | 29 | 26 | 22 | 16 |
| 18 | 22 | 24 | 15 | 32 | 13 |
| 10 | 28 | 1 | 4 | 17 | 22 |
| 20 | 26 | 20 | 1 | 27 | 2 |
| 26 | 29 | 14 | 5 | 9 | 20 |
| 30 | 13 | 15 | 12 | 3 | 9 |
| 15 | 18 | 22 | 14 | 6 | 4 |
| 8 | 17 | 25 | 17 | 10 | 30 |
| 22 | 15 | 23 | 11 | 20 | 17 |
| 9 | 13 | 26 | 30 | 21 | 23 |
| 6 | 3 | 18 | 23 | 26 | 12 |
| 5 | 8 | 17 | 7 | 15 | 25 |
| 6 | 9 | 27 | 27 | 14 | 29 |
| 4 | 24 | 8 | 22 | 1 | 5 |
| 13 | 18 | 33 | 18 | 29 | 7 |
| 27 | 25 | 21 | 29 | 24 | 6 |
| 21 | 27 | 19 | 10 | 16 | 32 |

## UNIFORM PRELIMINARY TEST IIA, 1988

### MATURITY (date)

| Strain | Mean 9 Tests | Ames IA | Marshall-town IA | Urbana IL | Lafay-ette IN | Britton MI |
|---|---|---|---|---|---|---|
| Elgin 87 (II) | 9/14.6 | 08/31 | | 09/05 | 09/07 | 09/19 |
| Hardin (I) | -5.3 | -5 | | -3 | 0 | -8 |
| Zane (III) | 6.7 | 8 | | 1 | 14 | 2 |
| A87-197001 | -2.9 | -2 | | -10 | 0 | -6 |
| A87-197018 | -4.1 | -3 | | -14 | -4 | -6 |
| A87-198013 | -1.3 | 3 | | -7 | 0 | -2 |
| A87-199024 | -1.7 | 0 | | -9 | 1 | -5 |
| A87-295015 | 4.3 | 4 | | 0 | * | 4 |
| A87-296011 | 7.8 | 8 | | 1 | 15 | 4 |
| A87-296012 | 7.8 | 8 | | 5 | 15 | 4 |
| A87-296035 | 1.4 | 0 | | -4 | 5 | -1 |
| A87-297015 | 3.9 | 6 | | 0 | 10 | 5 |
| LN84-7254 | 1.9 | 4 | | -2 | 6 | 1 |
| LN84-8147 | -0.6 | 0 | | 0 | 2 | -3 |
| LN84-10342 | 2.4 | 2 | | -2 | 9 | -1 |
| LN85-5305 | 5.8 | 6 | | 4 | 13 | 5 |
| LN85-6037 | 9.7 | 10 | | 8 | 14 | 10 |
| LN85-6226 | -1.6 | 0 | | -11 | -2 | 0 |
| LN85-6253 | -0.1 | 2 | | -10 | 4 | -2 |
| LN85-6259 | -2.4 | -2 | | -12 | 4 | -3 |
| LN85-6347 | -3.1 | 0 | | -13 | -1 | -2 |
| LN85-6377 | 1.3 | 3 | | 0 | 5 | 0 |
| LN85-6479 | -1.6 | 0 | | -7 | -1 | -2 |
| LN85-7289 | 0.7 | 0 | | -1 | 5 | 2 |
| LN85-7295 | -1.3 | 0 | | -11 | 0 | -2 |
| LN85-7445 | 0.4 | 0 | | -1 | 5 | -1 |
| LN85-7755 | 2.0 | 6 | | -2 | 1 | 3 |
| LN85-7832 | -0.3 | 3 | | -3 | 0 | -4 |
| LN85-9674 | 2.9 | 3 | | 1 | 3 | 3 |
| LN85-10234 | 3.0 | 6 | | 2 | 6 | 2 |
| U85-64055 | 1.0 | 2 | | 1 | 4 | 0 |
| U85-68023 | -0.6 | 0 | | 0 | 1 | 0 |
| U85-68024 | -0.2 | 3 | | -5 | 1 | -1 |
| Date Planted | 5/14.7 | 05/04 | | 05/03 | 05/10 | 05/05 |
| Days to Mature | 123 | 119 | | 125 | 120 | 137 |

## UNIFORM PRELIMINARY TEST IIA, 1988

### MATURITY (date)

| Mead NE | Adelphia NJ | Hoytville OH | Ridge-town Ont. | Center-ville SD | Arling-ton WI |
|---|---|---|---|---|---|
| 09/12 | 09/27 | | 09/27 | 09/16 | 09/18 |
| -8 | -9 | | -3 | -7 | -5 |
| 8 | 8 | | 6 | 6 | 7 |
| -2 | -8 | | -4 | 0 | 6 |
| -4 | -5 | | -2 | -1 | 2 |
| -1 | -5 | | -2 | -2 | 4 |
| -1 | -2 | | -1 | -2 | 4 |
| 4 | 7 | | 9 | 2 | 9 |
| 12 | 7 | | 6 | 5 | 12 |
| 6 | 8 | | 7 | 5 | 12 |
| 1 | 3 | | 4 | 0 | 5 |
| 2 | -1 | | 4 | 0 | 9 |
| 1 | 3 | | 0 | 0 | 4 |
| 0 | -5 | | 0 | -1 | 2 |
| 2 | 1 | | 5 | 2 | 4 |
| 6 | -1 | | 6 | 4 | 9 |
| 12 | 5 | | 9 | 7 | 12 |
| -1 | -5 | | -1 | -1 | 7 |
| 0 | -3 | | 5 | -2 | 5 |
| -2 | -4 | | -2 | -3 | 2 |
| -2 | -7 | | 0 | -3 | 0 |
| 1 | -3 | | 2 | 0 | 4 |
| -2 | -5 | | 2 | -1 | 2 |
| -2 | -1 | | 1 | 0 | 2 |
| -2 | -5 | | 1 | 0 | 7 |
| 1 | -5 | | 2 | -1 | 4 |
| 4 | 2 | | 5 | -5 | 4 |
| 1 | -3 | | 2 | -1 | 2 |
| 4 | 1 | | 2 | 2 | 7 |
| 3 | -1 | | 4 | 0 | 5 |
| 0 | -5 | | 2 | 1 | 4 |
| -1 | -5 | | 0 | -4 | 4 |
| -1 | -4 | | 1 | -2 | 6 |
| 05/11 | 06/15 | | 05/24 | 05/16 | 05/13 |
| 124 | 104 | | 126 | 123 | 128 |

## UNIFORM PRELIMINARY TEST IIA, 1988

### LODGING (score)

| Strain | Mean 10 Tests | Ames IA | Marshall-town IA | Urbana IL | Lafay-ette IN | Britton MI |
|---|---|---|---|---|---|---|
| Elgin 87 (II) | 1.4 | 1.2 | 1.0 | 1.0 | 1.5 | 1.5 |
| Hardin (I) | 1.9 | 1.8 | 1.4 | 2.0 | 1.8 | 2.0 |
| Zane (III) | 1.3 | 1.1 | 1.0 | 1.0 | 1.0 | 1.0 |
| A87-197001 | 1.1 | 1.2 | 1.0 | 1.0 | 1.0 | 1.0 |
| A87-197018 | 1.6 | 1.2 | 1.4 | 1.0 | 2.0 | 2.0 |
| A87-198013 | 1.2 | 1.1 | 1.1 | 1.0 | 1.0 | 1.0 |
| A87-199024 | 1.2 | 1.1 | 1.0 | 1.0 | 1.0 | 1.0 |
| A87-295015 | 1.5 | 1.3 | 1.3 | 1.0 | * | 1.5 |
| A87-296011 | 1.3 | 1.3 | 1.0 | 1.0 | 1.0 | 1.0 |
| A87-296012 | 1.2 | 1.1 | 1.0 | 1.0 | 1.0 | 1.0 |
| A87-296035 | 1.4 | 1.2 | 1.3 | 1.0 | 1.3 | 1.0 |
| A87-297015 | 1.2 | 1.1 | 1.0 | 1.0 | 1.0 | 1.0 |
| LN84-7254 | 1.1 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| LN84-8147 | 1.1 | 1.1 | 1.0 | 1.0 | 1.0 | 1.0 |
| LN84-10342 | 1.3 | 1.2 | 1.0 | 1.0 | 1.0 | 1.0 |
| LN85-5305 | 1.6 | 1.6 | 1.1 | 1.0 | 1.3 | 1.5 |
| LN85-6037 | 2.0 | 2.0 | 1.6 | 1.5 | 2.0 | 2.5 |
| LN85-6226 | 1.4 | 1.3 | 1.0 | 1.0 | 1.0 | 2.0 |
| LN85-6253 | 1.2 | 1.2 | 1.1 | 1.0 | 1.0 | 1.0 |
| LN85-6259 | 1.5 | 1.3 | 1.2 | 1.0 | 1.3 | 1.5 |
| LN85-6347 | 1.4 | 1.4 | 1.3 | 1.0 | 1.5 | 1.0 |
| LN85-6377 | 1.3 | 1.2 | 1.1 | 1.0 | 1.3 | 1.5 |
| LN85-6479 | 1.5 | 1.3 | 1.1 | 1.0 | 1.3 | 2.0 |
| LN85-7289 | 1.3 | 1.2 | 1.0 | 1.0 | 1.0 | 1.5 |
| LN85-7295 | 1.4 | 1.2 | 1.2 | 1.0 | 1.0 | 1.5 |
| LN85-7445 | 1.3 | 1.2 | 1.1 | 1.0 | 1.0 | 1.0 |
| LN85-7755 | 1.3 | 1.4 | 1.0 | 1.0 | 1.0 | 1.5 |
| LN85-7832 | 1.2 | 1.1 | 1.0 | 1.0 | 1.0 | 1.0 |
| LN85-9674 | 1.1 | 1.1 | 1.0 | 1.0 | 1.0 | 1.0 |
| LN85-10234 | 1.5 | 1.3 | 1.2 | 1.0 | 1.5 | 1.5 |
| U85-64055 | 1.5 | 1.5 | 1.2 | 1.5 | 1.3 | 1.5 |
| U85-68023 | 1.1 | 1.2 | 1.0 | 1.0 | 1.0 | 1.0 |
| U85-68024 | 1.1 | 1.1 | 1.0 | 1.0 | 1.0 | 1.0 |

## UNIFORM PRELIMINARY TEST IIA, 1988

### LODGING (score)

| Mead NE | Adelphia NJ | Hoytville OH | Ridge-town Ont. | Center-ville SD | Arling-ton WI |
|---|---|---|---|---|---|
| 1.0 | 1.0 | | 3.0 | 1.0 | 1.3 |
| 2.0 | 2.0 | | 3.5 | 1.0 | 1.3 |
| 1.0 | 1.0 | | 3.5 | 1.0 | 1.3 |
| 1.0 | 1.0 | | 2.0 | 1.0 | 1.0 |
| 1.0 | 1.5 | | 4.0 | 1.0 | 1.3 |
| 1.0 | 1.0 | | 2.5 | 1.0 | 1.5 |
| 1.0 | 1.0 | | 3.0 | 1.0 | 1.3 |
| 1.0 | 1.0 | | 4.0 | 1.0 | 1.5 |
| 1.0 | 1.0 | | 3.0 | 1.0 | 1.5 |
| 1.0 | 1.0 | | 2.5 | 1.0 | 1.0 |
| 1.0 | 1.5 | | 3.5 | 1.0 | 1.5 |
| 1.0 | 1.0 | | 3.0 | 1.0 | 1.0 |
| 1.0 | 1.0 | | 2.0 | 1.0 | 1.0 |
| 1.0 | 1.0 | | 2.0 | 1.0 | 1.0 |
| 1.0 | 1.0 | | 3.0 | 1.0 | 1.3 |
| 1.0 | 1.5 | | 4.0 | 1.0 | 1.5 |
| 1.3 | 2.0 | | 4.0 | 1.0 | 2.0 |
| 1.0 | 1.5 | | 3.0 | 1.0 | 1.5 |
| 1.0 | 1.0 | | 2.5 | 1.0 | 1.3 |
| 1.0 | 2.0 | | 3.0 | 1.0 | 1.8 |
| 1.0 | 1.0 | | 3.0 | 1.0 | 1.3 |
| 1.0 | 1.0 | | 3.0 | 1.0 | 1.3 |
| 1.0 | 1.0 | | 3.5 | 1.0 | 1.3 |
| 1.0 | 1.0 | | 3.0 | 1.0 | 1.0 |
| 1.0 | 1.5 | | 3.0 | 1.0 | 1.3 |
| 1.0 | 1.0 | | 3.0 | 1.0 | 1.3 |
| 1.0 | 1.0 | | 3.0 | 1.0 | 1.3 |
| 1.0 | 1.0 | | 2.5 | 1.0 | 1.0 |
| 1.0 | 1.0 | | 2.0 | 1.0 | 1.0 |
| 1.0 | 1.0 | | 4.0 | 1.0 | 1.3 |
| 1.0 | 1.0 | | 3.5 | 1.0 | 1.3 |
| 1.0 | 1.0 | | 2.0 | 1.0 | 1.0 |
| 1.0 | 1.0 | | 2.0 | 1.0 | 1.0 |

## UNIFORM PRELIMINARY TEST IIA, 1988

### PLANT HEIGHT (inches)

| Strain | Mean 10 Tests | Ames IA | Marshall-town IA | Urbana IL | Lafay-ette IN | Britton MI |
|---|---|---|---|---|---|---|
| Elgin 87 (II) | 30 | 35 | 32 | 31 | 33 | 30 |
| Hardin (I) | 34 | 36 | 32 | 34 | 37 | 33 |
| Zane (III) | 34 | 38 | 40 | 31 | 35 | 32 |
| A87-197001 | 32 | 34 | 32 | 26 | 36 | 31 |
| A87-197018 | 30 | 34 | 30 | 22 | 33 | 34 |
| A87-198013 | 32 | 38 | 34 | 24 | 34 | 34 |
| A87-199024 | 32 | 36 | 36 | 26 | 35 | 33 |
| A87-295015 | 35 | 41 | 38 | 33 | * | 36 |
| A87-296011 | 29 | 31 | 32 | 24 | 34 | 27 |
| A87-296012 | 30 | 31 | 32 | 29 | 39 | 31 |
| A87-296035 | 33 | 35 | 35 | 30 | 38 | 30 |
| A87-297015 | 33 | 37 | 36 | 32 | 37 | 34 |
| LN84-7254 | 29 | 34 | 31 | 24 | 35 | 29 |
| LN84-8147 | 30 | 33 | 34 | 28 | 33 | 29 |
| LN84-10342 | 35 | 40 | 38 | 31 | 40 | 34 |
| LN85-5305 | 33 | 36 | 36 | 32 | 38 | 32 |
| LN85-6037 | 35 | 38 | 40 | 33 | 38 | 36 |
| LN85-6226 | 34 | 36 | 36 | 29 | 33 | 40 |
| LN85-6253 | 34 | 38 | 36 | 28 | 38 | 36 |
| LN85-6259 | 34 | 40 | 34 | 27 | 37 | 35 |
| LN85-6347 | 33 | 36 | 38 | 28 | 35 | 34 |
| LN85-6377 | 34 | 40 | 40 | 31 | 38 | 33 |
| LN85-6479 | 33 | 36 | 36 | 27 | 33 | 36 |
| LN85-7289 | 32 | 34 | 35 | 29 | 33 | 35 |
| LN85-7295 | 33 | 36 | 36 | 26 | 34 | 36 |
| LN85-7445 | 32 | 37 | 34 | 31 | 33 | 35 |
| LN85-7755 | 34 | 40 | 34 | 31 | 34 | 36 |
| LN85-7832 | 30 | 35 | 30 | 28 | 33 | 28 |
| LN85-9674 | 31 | 33 | 36 | 28 | 33 | 33 |
| LN85-10234 | 36 | 38 | 40 | 33 | 38 | 35 |
| U85-64055 | 38 | 42 | 41 | 36 | 41 | 38 |
| U85-68023 | 35 | 38 | 36 | 33 | 40 | 35 |
| U85-68024 | 34 | 39 | 37 | 31 | 36 | 37 |

## UNIFORM PRELIMINARY TEST IIA, 1988

### PLANT HEIGHT (inches)

| Mead NE | Adelphia NJ | Hoytville OH | Ridge-town Ont. | Center-ville SD | Arling-ton WI |
|---|---|---|---|---|---|
| 31 | 24 | | 35 | 22 | 24 |
| 32 | 34 | | 44 | 28 | 29 |
| 36 | 26 | | 43 | 27 | 33 |
| 30 | 28 | | 41 | 29 | 28 |
| 30 | 25 | | 40 | 26 | 28 |
| 27 | 30 | | 42 | 26 | 30 |
| 32 | 30 | | 39 | 27 | 30 |
| 35 | 30 | | 47 | 27 | 32 |
| 28 | 23 | | 38 | 23 | 26 |
| 25 | 25 | | 38 | 22 | 27 |
| 31 | 28 | | 44 | 26 | 28 |
| 32 | 26 | | 42 | 27 | 31 |
| 25 | 24 | | 40 | 21 | 24 |
| 30 | 28 | | 37 | 26 | 26 |
| 34 | 29 | | 45 | 25 | 31 |
| 30 | 26 | | 43 | 27 | 30 |
| 34 | 25 | | 42 | 30 | 33 |
| 33 | 31 | | 46 | 27 | 29 |
| 35 | 28 | | 42 | 27 | 30 |
| 35 | 28 | | 40 | 28 | 31 |
| 32 | 28 | | 42 | 29 | 29 |
| 29 | 28 | | 42 | 28 | 31 |
| 33 | 30 | | 42 | 28 | 30 |
| 32 | 26 | | 38 | 26 | 28 |
| 34 | 27 | | 42 | 27 | 28 |
| 30 | 28 | | 38 | 28 | 30 |
| 33 | 28 | | 44 | 29 | 33 |
| 27 | 26 | | 39 | 25 | 28 |
| 30 | 26 | | 39 | 24 | 26 |
| 34 | 27 | | 51 | 29 | 30 |
| 33 | 32 | | 47 | 29 | 36 |
| 31 | 31 | | 43 | 27 | 34 |
| 31 | 30 | | 41 | 28 | 30 |

## UNIFORM PRELIMINARY TEST IIA, 1988

### SEED QUALITY (score)

| Strain | Mean 11 Tests | Ames IA | Marshall-town IA | Urbana IL | Lafay-ette IN | Britton MI |
|---|---|---|---|---|---|---|
| Elgin 87 (II) | 2.1 | 3.5 | 1.2 | 3.5 | 1.5 | 1.5 |
| Hardin (I) | 2.6 | 3.6 | 2.2 | 3.2 | 2.0 | 2.0 |
| Zane (III) | 2.1 | 3.8 | 1.5 | 4.4 | 1.5 | 1.0 |
| A87-197001 | 2.3 | 3.0 | 2.1 | 4.3 | 1.5 | 1.0 |
| A87-197018 | 1.9 | 2.4 | 2.3 | 2.7 | 1.5 | 1.5 |
| A87-198013 | 1.8 | 2.7 | 1.4 | 4.0 | 1.5 | 1.0 |
| A87-199024 | 1.9 | 2.3 | 1.6 | 4.0 | 2.0 | 1.5 |
| A87-295015 | 2.5 | 3.0 | 2.3 | 3.4 | * | 2.0 |
| A87-296011 | 2.0 | 2.2 | 1.3 | 3.4 | 1.5 | 1.0 |
| A87-296012 | 2.1 | 2.6 | 1.5 | 3.0 | 1.5 | 1.5 |
| A87-296035 | 2.3 | 2.6 | 3.0 | 2.8 | 1.5 | 1.5 |
| A87-297015 | 2.1 | 3.0 | 1.8 | 2.8 | 2.0 | 1.5 |
| LN84-7254 | 1.7 | 2.5 | 1.2 | 3.5 | 1.0 | 1.0 |
| LN84-8147 | 1.7 | 2.2 | 1.4 | 3.0 | 1.5 | 1.0 |
| LN84-10342 | 1.6 | 1.7 | 1.1 | 2.8 | 1.0 | 1.0 |
| LN85-5305 | 2.2 | 2.9 | 1.3 | 2.9 | 1.0 | 1.5 |
| LN85-6037 | 2.2 | 3.2 | 2.6 | 3.2 | 2.0 | 2.0 |
| LN85-6226 | 1.9 | 3.3 | 1.5 | 3.3 | 1.0 | 1.0 |
| LN85-6253 | 1.7 | 2.6 | 1.6 | 3.2 | 1.0 | 1.0 |
| LN85-6259 | 1.7 | 1.8 | 1.3 | 2.3 | 1.0 | 1.5 |
| LN85-6347 | 1.9 | 2.2 | 2.0 | 2.9 | 1.0 | 2.5 |
| LN85-6377 | 1.7 | 2.7 | 1.3 | 2.9 | 1.0 | 1.0 |
| LN85-6479 | 1.8 | 2.4 | 1.7 | 2.5 | 1.0 | 1.0 |
| LN85-7289 | 2.0 | 2.5 | 2.1 | 3.9 | 1.5 | 1.0 |
| LN85-7295 | 2.3 | 2.3 | 1.7 | 4.0 | 2.0 | 1.5 |
| LN85-7445 | 1.6 | 2.6 | 1.4 | 3.3 | 1.0 | 1.0 |
| LN85-7755 | 1.8 | 2.7 | 1.2 | 2.8 | 1.0 | 1.5 |
| LN85-7832 | 1.7 | 1.7 | 1.3 | 3.3 | 1.5 | 2.0 |
| LN85-9674 | 2.0 | 2.0 | 1.3 | 2.8 | 1.5 | 1.5 |
| LN85-10234 | 1.7 | 3.0 | 1.2 | 2.5 | 1.5 | 1.5 |
| U85-64055 | 2.4 | 2.7 | 3.0 | 3.0 | 1.5 | 1.5 |
| U85-68023 | 2.1 | 2.2 | 2.8 | 3.3 | 1.5 | 1.0 |
| U85-68024 | 2.3 | 2.8 | 2.0 | 3.8 | 1.5 | 2.5 |

## UNIFORM PRELIMINARY TEST IIA, 1988

### SEED QUALITY (score)

| Mead NE | Adelphia NJ | Hoytville OH | Ridge-town Ont. | Center-ville SD | Arling-ton WI |
|---|---|---|---|---|---|
| 1.8 | 1.0 | 2.3 | 1.0 | 4.0 | 2.0 |
| 3.0 | 1.5 | 2.6 | 1.0 | 4.0 | 3.0 |
| 2.3 | 1.0 | 2.9 | 1.0 | 3.0 | 1.0 |
| 2.5 | 1.0 | 3.0 | 2.0 | 3.0 | 1.5 |
| 2.0 | 1.0 | 2.6 | 1.0 | 3.0 | 1.0 |
| 1.8 | 1.0 | 2.0 | 1.0 | 2.0 | 1.0 |
| 1.8 | 1.0 | 1.7 | 1.0 | 3.0 | 1.5 |
| 2.3 | 1.5 | 2.8 | 2.0 | 4.0 | 1.5 |
| 2.0 | 1.0 | 2.6 | 3.0 | 3.0 | 1.5 |
| 1.8 | 1.0 | 2.6 | 3.0 | 3.0 | 1.5 |
| 2.0 | 4.0 | 2.8 | 2.0 | 2.0 | 1.5 |
| 2.0 | 1.0 | 2.5 | 2.0 | 3.0 | 1.0 |
| 1.8 | 1.0 | 1.7 | 1.0 | 2.0 | 1.5 |
| 2.0 | 1.0 | 2.1 | 1.0 | 3.0 | 1.0 |
| 1.5 | 1.0 | 2.7 | 1.0 | 3.0 | 1.0 |
| 2.0 | 2.5 | 2.3 | 3.0 | 4.0 | 1.0 |
| 1.8 | 1.5 | 2.4 | 1.0 | 4.0 | 1.0 |
| 2.0 | 1.0 | 2.5 | 1.0 | 3.0 | 1.5 |
| 1.8 | 1.0 | 2.7 | 1.0 | 2.0 | 1.0 |
| 1.8 | 1.0 | 2.6 | 1.0 | 3.0 | 1.5 |
| 1.5 | 1.0 | 2.2 | 2.0 | 3.0 | 1.0 |
| 2.0 | 1.0 | 2.4 | 1.0 | 2.0 | 1.0 |
| 2.0 | 1.5 | 2.4 | 1.0 | 3.0 | 1.0 |
| 2.0 | 1.0 | 2.1 | 1.0 | 3.0 | 2.0 |
| 2.5 | 1.0 | 2.3 | 1.0 | 4.0 | 2.5 |
| 2.0 | 1.0 | 1.7 | 1.0 | 2.0 | 1.0 |
| 2.0 | 1.0 | 2.1 | 1.0 | 3.0 | 1.0 |
| 1.5 | 1.0 | 2.0 | 1.0 | 2.0 | 1.0 |
| 2.0 | 2.5 | 2.0 | 2.0 | 3.0 | 1.5 |
| 2.0 | 1.0 | 2.0 | 1.0 | 2.0 | 1.0 |
| 2.0 | 3.0 | 1.8 | 3.0 | 3.0 | 1.5 |
| 2.0 | 2.5 | 1.9 | 2.0 | 3.0 | 1.0 |
| 2.0 | 1.5 | 2.1 | 1.0 | 3.0 | 3.5 |

## UNIFORM PRELIMINARY TEST IIA, 1988

### SEED SIZE (g\100)

| Strain | Mean 11 Tests | Ames IA | Marshall-town IA | Urbana IL | Lafay-ette IN | Britton MI |
|---|---|---|---|---|---|---|
| Elgin 87 (II) | 13.9 | 12.4 | 13.7 | 11.4 | 9.6 | 15.1 |
| Hardin (I) | 13.8 | 13.0 | 12.7 | 13.9 | 12.3 | 14.0 |
| Zane (III) | 17.5 | 14.3 | 18.7 | 12.9 | 13.7 | 20.4 |
| A87-197001 | 17.3 | 16.0 | 17.0 | 12.5 | 13.8 | 18.1 |
| A87-197018 | 13.4 | 12.8 | 13.2 | 10.2 | 10.1 | 14.2 |
| A87-198013 | 14.2 | 11.5 | 14.1 | 9.3 | 12.6 | 15.8 |
| A87-199024 | 14.7 | 12.5 | 14.6 | 10.9 | 12.6 | 16.1 |
| A87-295015 | 15.7 | 13.7 | 16.4 | 12.1 | * | 18.0 |
| A87-296011 | 16.7 | 15.3 | 17.8 | 11.3 | 13.8 | 17.8 |
| A87-296012 | 16.1 | 12.8 | 17.2 | 13.2 | 12.7 | 17.8 |
| A87-296035 | 16.4 | 12.8 | 17.2 | 12.6 | 13.3 | 19.1 |
| A87-297015 | 15.4 | 13.2 | 15.5 | 11.6 | 12.9 | 16.5 |
| LN84-7254 | 14.5 | 12.4 | 14.9 | 9.6 | 11.9 | 17.2 |
| LN84-8147 | 16.0 | 14.2 | 16.8 | 12.9 | 14.0 | 16.6 |
| LN84-10342 | 16.2 | 13.7 | 16.9 | 12.4 | 13.7 | 18.6 |
| LN85-5305 | 16.3 | 13.1 | 17.3 | 15.3 | 13.7 | 18.4 |
| LN85-6037 | 15.4 | 13.7 | 14.4 | 13.0 | 13.3 | 18.4 |
| LN85-6226 | 14.7 | 12.8 | 15.1 | 9.7 | 12.3 | 16.3 |
| LN85-6253 | 13.8 | 10.5 | 13.3 | 9.7 | 13.0 | 15.4 |
| LN85-6259 | 13.2 | 11.7 | 12.3 | 9.1 | 12.2 | 14.0 |
| LN85-6347 | 13.3 | 11.4 | 14.0 | 8.4 | 11.0 | 14.2 |
| LN85-6377 | 14.5 | 12.0 | 14.5 | 11.1 | 11.8 | 16.4 |
| LN85-6479 | 14.6 | 12.8 | 14.7 | 9.9 | 12.2 | 16.5 |
| LN85-7289 | 15.3 | 11.6 | 15.8 | 11.8 | 11.7 | 18.4 |
| LN85-7295 | 16.1 | 13.6 | 16.8 | 10.1 | 11.3 | 17.0 |
| LN85-7445 | 15.5 | 12.6 | 15.3 | 12.1 | 11.4 | 16.8 |
| LN85-7755 | 12.9 | 10.6 | 13.5 | 8.7 | 9.8 | 13.6 |
| LN85-7832 | 14.0 | 11.6 | 14.6 | 10.4 | 9.9 | 13.9 |
| LN85-9674 | 14.8 | 12.7 | 15.6 | 11.5 | 12.0 | 15.3 |
| LN85-10234 | 15.5 | 13.0 | 15.7 | 13.7 | 13.1 | 16.9 |
| U85-64055 | 16.9 | 13.9 | 17.1 | 15.7 | 14.4 | 17.6 |
| U85-68023 | 14.6 | 12.1 | 14.4 | 12.0 | 12.8 | 15.5 |
| U85-68024 | 14.2 | 11.8 | 15.2 | 11.0 | 12.2 | 15.2 |

## UNIFORM PRELIMINARY TEST IIA, 1988

### SEED SIZE (g\100)

| Mead NE | Adelphia NJ | Hoytville OH | Ridge-town Ont. | Center-ville SD | Arling-ton WI |
|---|---|---|---|---|---|
| 15.9 | 15.0 | 11.2 | 15.9 | 18.7 | 13.9 |
| 17.8 | 12.5 | 12.6 | 14.7 | 17.4 | 11.1 |
| 20.6 | 20.5 | 13.3 | 19.8 | 21.3 | 16.8 |
| 21.9 | 19.0 | 13.9 | 17.8 | 22.8 | 17.3 |
| 16.7 | 13.5 | 10.4 | 15.1 | 18.6 | 12.4 |
| 17.2 | 15.5 | 13.3 | 15.4 | 18.2 | 13.3 |
| 17.0 | 15.5 | 12.0 | 15.5 | 20.3 | 14.4 |
| 16.3 | 19.5 | 11.6 | 16.6 | 18.7 | 13.8 |
| 18.5 | 21.5 | 12.9 | 18.4 | 20.5 | 15.7 |
| 17.6 | 20.5 | 12.8 | 17.9 | 20.1 | 14.4 |
| 18.2 | 20.5 | 13.7 | 17.8 | 20.9 | 14.5 |
| 16.7 | 17.5 | 11.9 | 16.4 | 21.6 | 15.7 |
| 16.4 | 17.5 | 12.0 | 15.7 | 18.8 | 12.6 |
| 18.0 | 18.5 | 12.9 | 15.7 | 20.8 | 16.1 |
| 17.4 | 19.5 | 12.8 | 18.5 | 19.5 | 15.0 |
| 17.9 | 18.0 | 16.3 | 17.0 | 18.7 | 13.4 |
| 18.0 | 19.0 | 11.7 | 18.1 | 16.1 | 13.6 |
| 17.5 | 16.0 | 12.0 | 16.1 | 19.6 | 14.8 |
| 15.9 | 15.0 | 12.4 | 15.9 | 17.7 | 13.2 |
| 15.0 | 14.5 | 12.5 | 14.1 | 17.1 | 12.2 |
| 15.9 | 15.0 | 12.2 | 15.4 | 17.3 | 11.6 |
| 16.6 | 16.0 | 14.0 | 15.4 | 18.5 | 13.1 |
| 17.2 | 15.0 | 13.1 | 16.1 | 19.4 | 13.7 |
| 17.0 | 18.0 | 14.3 | 17.4 | 19.4 | 13.2 |
| 20.0 | 18.5 | 14.9 | 17.6 | 20.6 | 16.9 |
| 18.3 | 17.0 | 15.4 | 16.6 | 19.7 | 15.1 |
| 15.3 | 16.0 | 12.4 | 15.0 | 15.9 | 11.5 |
| 17.7 | 16.0 | 14.3 | 15.5 | 17.9 | 12.7 |
| 17.3 | 18.5 | 13.3 | 15.4 | 19.2 | 12.0 |
| 16.8 | 17.0 | 14.2 | 17.1 | 18.4 | 14.6 |
| 19.9 | 18.5 | 15.0 | 17.2 | 20.8 | 16.0 |
| 17.4 | 15.5 | 13.0 | 16.0 | 18.6 | 13.1 |
| 16.0 | 15.5 | 13.2 | 15.9 | 18.3 | 12.4 |

## UNIFORM PRELIMINARY TEST IIA, 1988

### PROTEIN (%)

| Strain | Mean 5 Tests | Ames IA | Urbana IL | Lafayette IN | Mead NE | Hoytville OH |
|---|---|---|---|---|---|---|
| Elgin 87 (II) | 38.5 | 37.5 | 38.5 | 41.7 | 37.5 | 37.3 |
| Hardin (I) | 39.2 | 38.1 | 38.0 | 41.0 | 40.9 | 37.8 |
| Zane (III) | 41.6 | 40.7 | 42.7 | 41.8 | 41.2 | 41.4 |
| A87-197001 | 39.4 | 37.4 | 39.4 | 42.1 | 40.0 | 38.3 |
| A87-197018 | 39.1 | 37.1 | 39.3 | 42.4 | 38.6 | 38.0 |
| A87-198013 | 40.7 | 39.7 | 40.5 | 42.8 | 41.3 | 39.1 |
| A87-199024 | 39.5 | 38.5 | 39.1 | 42.4 | 39.3 | 38.1 |
| A87-295015 | 39.0 | 40.0 | 39.3 | * | 39.2 | 37.6 |
| A87-296011 | 40.6 | 38.5 | 42.1 | 42.9 | 41.2 | 38.2 |
| A87-296012 | 41.7 | 39.9 | 42.2 | 42.4 | 42.3 | 41.6 |
| A87-296035 | 39.4 | 38.3 | 39.2 | 42.8 | 38.3 | 38.4 |
| A87-297015 | 39.3 | 38.0 | 41.2 | 41.8 | 38.7 | 36.9 |
| LN84-7254 | 38.7 | 37.7 | 38.9 | 41.1 | 39.0 | 36.9 |
| LN84-8147 | 40.0 | 38.7 | 41.6 | 42.5 | 39.7 | 37.3 |
| LN84-10342 | 41.7 | 39.8 | 42.6 | 43.3 | 41.2 | 41.8 |
| LN85-5305 | 42.7 | 41.1 | 43.0 | 44.7 | 43.4 | 41.3 |
| LN85-6037 | 42.3 | 40.3 | 42.3 | 44.1 | 43.0 | 41.8 |
| LN85-6226 | 40.1 | 39.2 | 40.3 | 42.6 | 40.8 | 37.6 |
| LN85-6253 | 40.9 | 39.9 | 42.2 | 41.9 | 40.9 | 39.5 |
| LN85-6259 | 39.8 | 38.5 | 41.6 | 42.1 | 37.8 | 38.8 |
| LN85-6347 | 40.0 | 39.5 | 40.3 | 41.8 | 40.2 | 38.1 |
| LN85-6377 | 41.1 | 38.4 | 41.5 | 44.8 | 41.8 | 39.1 |
| LN85-6479 | 40.3 | 38.6 | 40.8 | 42.0 | 40.7 | 39.4 |
| LN85-7289 | 40.6 | 39.6 | 41.2 | 42.0 | 40.4 | 39.6 |
| LN85-7295 | 41.0 | 39.7 | 42.7 | 42.9 | 40.2 | 39.5 |
| LN85-7445 | 41.9 | 41.4 | 43.2 | 43.6 | 41.3 | 40.0 |
| LN85-7755 | 40.4 | 37.2 | 41.7 | 42.8 | 39.8 | 40.3 |
| LN85-7832 | 41.0 | 39.7 | 42.2 | 43.1 | 40.4 | 39.7 |
| LN85-9674 | 39.2 | 37.9 | 40.2 | 41.7 | 38.9 | 37.3 |
| LN85-10234 | 40.4 | 38.8 | 41.3 | 41.8 | 40.0 | 40.2 |
| U85-64055 | 39.9 | 37.5 | 40.6 | 43.0 | 39.7 | 38.9 |
| U85-68023 | 41.1 | 40.3 | 41.6 | 43.6 | 39.8 | 40.3 |
| U85-68024 | 41.6 | 40.8 | 42.4 | 43.5 | 41.7 | 39.5 |

## UNIFORM PRELIMINARY TEST IIA, 1988

### OIL (%)

| Strain | Mean 5 Tests | Ames IA | Urbana IL | Lafayette IN | Mead NE | Hoytville OH |
|---|---|---|---|---|---|---|
| Elgin 87 (II) | 21.8 | 22.0 | 21.1 | 20.4 | 23.1 | 22.5 |
| Hardin (I) | 22.6 | 22.4 | 23.4 | 22.5 | 22.1 | 22.5 |
| Zane (III) | 21.0 | 21.6 | 20.2 | 20.8 | 21.6 | 20.8 |
| A87-197001 | 22.2 | 23.3 | 21.4 | 20.9 | 22.9 | 22.7 |
| A87-197018 | 22.3 | 22.7 | 22.5 | 21.2 | 22.7 | 22.5 |
| A87-198013 | 20.8 | 19.9 | 20.1 | 21.5 | 20.9 | 21.5 |
| A87-199024 | 22.1 | 22.0 | 21.8 | 21.1 | 22.9 | 22.7 |
| A87-295015 | 21.7 | 21.2 | 21.4 | * | 22.2 | 21.8 |
| A87-296011 | 21.6 | 23.6 | 20.2 | 20.9 | 21.4 | 21.8 |
| A87-296012 | 21.6 | 22.0 | 21.2 | 21.6 | 21.6 | 21.8 |
| A87-296035 | 22.2 | 22.2 | 22.5 | 21.4 | 22.7 | 22.3 |
| A87-297015 | 22.0 | 22.2 | 21.1 | 21.9 | 22.3 | 22.6 |
| LN84-7254 | 21.9 | 21.6 | 21.6 | 21.3 | 22.1 | 22.9 |
| LN84-8147 | 21.9 | 22.3 | 21.2 | 20.9 | 22.1 | 22.8 |
| LN84-10342 | 20.5 | 21.8 | 20.1 | 20.2 | 20.1 | 20.1 |
| LN85-5305 | 20.1 | 20.3 | 20.4 | 19.7 | 19.7 | 20.6 |
| LN85-6037 | 20.1 | 20.5 | 19.9 | 19.7 | 20.0 | 20.6 |
| LN85-6226 | 21.7 | 21.3 | 22.0 | 21.5 | 21.2 | 22.7 |
| LN85-6253 | 20.7 | 20.2 | 20.4 | 20.9 | 21.0 | 21.1 |
| LN85-6259 | 21.1 | 21.7 | 20.3 | 20.2 | 22.5 | 20.8 |
| LN85-6347 | 21.6 | 22.0 | 21.0 | 21.0 | 21.7 | 22.3 |
| LN85-6377 | 21.6 | 22.6 | 21.5 | 20.3 | 21.6 | 21.9 |
| LN85-6479 | 21.6 | 22.1 | 21.1 | 21.5 | 21.5 | 21.7 |
| LN85-7289 | 21.2 | 20.9 | 20.8 | 21.7 | 21.0 | 21.5 |
| LN85-7295 | 21.3 | 21.1 | 20.1 | 20.8 | 22.4 | 22.2 |
| LN85-7445 | 21.0 | 21.0 | 20.0 | 21.3 | 21.7 | 20.8 |
| LN85-7755 | 20.7 | 21.8 | 19.7 | 20.6 | 21.4 | 19.9 |
| LN85-7832 | 21.3 | 21.0 | 21.1 | 20.9 | 21.1 | 22.2 |
| LN85-9674 | 21.8 | 21.8 | 21.4 | 21.7 | 22.0 | 22.3 |
| LN85-10234 | 20.2 | 20.2 | 19.6 | 20.6 | 20.4 | 20.4 |
| U85-64055 | 21.9 | 22.1 | 21.4 | 20.9 | 22.7 | 22.2 |
| U85-68023 | 21.2 | 20.9 | 21.0 | 20.4 | 22.6 | 21.1 |
| U85-68024 | 20.9 | 21.3 | 20.3 | 20.4 | 21.1 | 21.5 |

## UNIFORM PRELIMINARY TEST IIB, 1988

| Strain | Parentage | Generation Composited | Unique Traits |
|---|---|---|---|
| Elgin 87 (II) | Elgin (5) x Williams 82 | BC4 F2 | Rps1-k |
| Hardin (I) | Corsoy (3) x Cutler 71 | F5 | |
| Zane (III) | Cumberland x Pella | F5 | |
| A87D10 | Elf x A75D11 | F5 | |
| A87D20 | Elf x A73D16 | F5 | |
| C1731 | Century 84 x Williams 82 | F6 | Rps1-k |
| C1732 | Century 84 x Harper | F6 | Rps1-k |
| C1733 | Century 84 x Harper | F6 | Rps1-k |
| C1734 | Century 84 x Harper | F6 | Rps1-k |
| C1735 | A80-244003 x Century 84 | F6 | Rps1-k |
| C1736 | A80-244003 x Century 84 | F6 | Rps1-k |
| C1753 | Harper x C1640 | F6 | fan |
| E86067 | A80-145015 x A79-135010 | F3 | |
| E86130 | A80-1470003 x A80-147005 | F3 | |
| E86315 | HW8039 x Pella | F3 | |
| E86325 | A78-227015 x HW8039 | F3 | |
| E86328 | Elgin x A80-244031 | F3 | |
| E86339 | HW8039 x Elgin | F3 | |
| E86348 | HW8039 x A80-244035 | F3 | |
| E86359 | Century x A77-211021 | F3 | |
| E86368 | Century x A80-144024 | F3 | |
| HM8734 | A78-1230182 x Century 84 | BC1 F3 | Rps1-k |
| HM8735 | A78-1230182 x Century 84 | BC1 F3 | Rps1-k |
| HM8842 | Gold Tag 1250 x Williams 82 | F6 | Rps1-k ? |
| HM8844 | Gold Tag 1250 x Williams 82 | F6 | Rps1-k ? |
| M84-1005 | Hardin x Glenwood | F5 | Rps1 |
| ORC 8502 | Wells II x Williams | F5 | Rsp1-c |
| ORC 8601 | M73-62 x FH31-3 | F5 | |
| ORC 8706 | HC77-878 x A79-138024 | F5 | |
| Hoyt (dt1) | Harcor x Elf | F5 | |
| A87D16 | Elf x A73D16 | F5 | |
| C1749 | Ix93 x Williams 82 | F4 | |
| HC84-180 (dt) | Hobbit x K74-104-76-205 | F5 | |
| HC84-1060 (dt) | A72-512 x HC74-3400 | F5 | |
| HC84-1113-5 (dt) | HC74-3400 x Hobbit | F5 | |
| HC84-2001 (dt) | L73U-632 x HC74-3400 | F5 | |
| HC84-6420 (dt) | Williams 82 x Gnome 85 | F5 | |
| HC85-6219 (dt) | L73U-632 x Gnome 85 | F5 | |
| HC85-6409 (dt) | Gnome 85 x Asgrow A3127 | F5 | |

## UNIFORM PRELIMINARY TEST IIB, 1988

### DESCRIPTIVE AND DISEASE DATA

| Strain | Descriptive Code | Chlorosis Score Ames | Shattering Score Manhattan | BSR - Ames Plant n % | BSR - Ames Stem n % |
|---|---|---|---|---|---|
| Elgin 87 (II) | PTBSYBl | 2.7 | 1 | 30 | 7.1 |
| Hardin (I) | PGBSYY | 2.5 | 1 | 60 | 6.6 |
| Zane (III) | PGBSYIb | 3.3 | 1 | 80 | 26.4 |
| A87D10 | PGTSYY | 2.0 | 2 | 100 | 51.0 |
| A87D20 | PGBDYIb | 2.8 | 1 | 100 | 50.3 |
| C1731 | WTTSYBl | 3.3 | 1 | 70 | 28.7 |
| C1732 | PTBSYBl | 2.7 | 1 | 100 | 42.4 |
| C1733 | PTBSYBl | 2.2 | 1 | 50 | 9.5 |
| C1734 | PTBSYBl | 2.8 | 2 | 90 | 49.8 |
| C1735 | WTBSYBl | 3.2 | 1 | 60 | 23.8 |
| C1736 | PTBSYBl | 4.5 | 1 | 60 | 31.7 |
| C1753 | PTBSYBl | 3.0 | 2 | 100 | 43.9 |
| E86067 | P+WTBSYBl+Br | 3.7 | 2 | 80 | 33.5 |
| E86130 | WTBSYBr | 4.2 | 2 | 10 | 1.2 |
| E86315 | PTBSYBl | 3.3 | 1 | 70 | 32.4 |
| E86325 | P+WGTSYBf | 3.5 | 2 | 80 | 23.7 |
| E86328 | PGTSYIb | 3.3 | 1 | 60 | 28.4 |
| E86339 | PTBSYBl | 3.3 | 1 | 100 | 65.8 |
| E86348 | PTBSYBl | 3.3 | 1 | 90 | 62.7 |
| E86359 | PTBSYBl | 2.3 | 1 | 80 | 44.1 |
| E86368 | PG+TBSYBl+Ib | 2.2 | 2 | 70 | 37.6 |
| HM8734 | PGBSYIb | 2.7 | 2 | 90 | 45.9 |
| HM8735 | PTBSYBl+Br | 2.8 | 1 | 60 | 11.2 |
| HM8842 | PGBDYIb | 4.2 | 2 | 70 | 13.0 |
| HM8844 | P+WGBDYIb | 4.5 | 2 | 30 | 3.5 |
| M84-1005 | PGBDYBf | 1.5 | 1 | 40 | 17.4 |
| ORC 8502 | PTBDYBl | 2.8 | 2 | 0 | 0.0 |
| ORC 8601 | WGBDYY | 1.5 | 2 | 20 | 3.3 |
| ORC 8706 | WTBDYBl | 2.8 | 2 | 80 | 55.5 |
| Hoyt (dt) | PTTDYBl | 2.8 | 1 | 80 | 42.8 |
| A87D16 | PGBSYIb | 2.7 | 1 | 100 | 57.5 |
| C1749 | WTTSYBl | 3.0 | 1 | 80 | 43.3 |
| HC84-180 (dt) | PTBSYBl | 2.8 | 1 | 90 | 76.1 |
| HC84-1060 (dt) | WGBSYBf | 4.3 | 1 | 70 | 36.7 |
| HC84-1113-5 (dt) | WTBSYBl | 3.7 | 1 | 90 | 60.9 |
| HC84-2001 (dt) | WTBSYBl | 2.0 | 1 | 70 | 57.5 |
| HC84-6420 (dt) | P+WTTSYBl | 3.8 | 1 | 100 | 97.1 |
| HC85-6219 (dt) | PTTSYBl | 2.0 | 2 | 100 | 71.5 |
| HC85-6409 (dt) | PTTSYBl | 4.5 | 1 | 90 | 72.8 |

## UNIFORM PRELIMINARY TEST IIB, 1988

### DISEASE DATA

| Strain | PR Ames Race 4 Reaction | PR Castalia Phyto. Tolerance | PR Urbana Race 1 | PR Lafayette Race 7 | PS Lafayette art | PSB Lafayette an % | SMV Lafayette a Score |
|---|---|---|---|---|---|---|---|
| Elgin 87 (II) | R | 3.5 | R | R | 2E | 12 | 5E |
| Hardin (I) | S | 5.0 | R | S | 3E | 18 | 1 |
| Zane (III) | S | 4.3 | S | S | 2E | 14 | 4E |
| A87D10 | S | 6.5 | S | S | | 34 | 2E |
| A87D20 | S | 5.4 | S | S | 2E | 18 | 1 |
| C1731 | R | 4.5 | R | R | 2E | 22 | 1 |
| C1732 | S | 4.5 | R | R | 2E | 18 | 3S |
| C1733 | H | 4.0 | R | R | 2E | 22 | 1 |
| C1734 | S | 3.8 | R | S | 2E | 10 | 1 |
| C1735 | H | 3.8 | R | H | 2M | 6 | 2M |
| C1736 | R | 3.8 | R | R | 2E | 22 | 2E |
| C1753 | S | 4.0 | S | S | 2E | 16 | 3E |
| E86067 | S | 4.5 | S | S | 2E | 24 | 2E |
| E86130 | S | 4.3 | R | S | 2E | 8 | 3E |
| E86315 | S | 6.0 | S | S | 2M | 8 | 2E |
| E86325 | S | 6.0 | H | S | 2E | 6 | 3E |
| E86328 | S | 4.5 | S | S | 2E | 4 | 2E |
| E86339 | S | 4.0 | S | S | 2E | 10 | 4E |
| E86348 | S | 4.8 | S | S | 2E | 4 | 1 |
| E86359 | S | 4.2 | R | S | 2E | 10 | 5E |
| E86368 | S | 4.3 | R | S | 2M | 10 | 4E |
| HM8734 | S | 4.0 | R | R | 2E | 4 | 3M |
| HM8735 | R | 3.8 | R | R | 2E | 6 | 1 |
| HM8842 | R | 5.3 | R | R | 3E | 28 | 5M |
| HM8844 | R | 3.5 | R | R | | | |
| M84-1005 | S | 6.0 | R | S | 1 | 6 | 3E |
| ORC 8502 | S | 5.3 | R | R | 1 | 10 | 3E |
| ORC 8601 | S | 5.0 | R | R | 2E | 22 | 4E |
| ORC 8706 | S | 5.0 | S | S | 2E | 0 | 5S |
| Hoyt (dt) | S | 6.0 | R | S | 1 | 18 | 3E |
| A87D16 | S | 6.3 | S | S | 1 | 16 | 1 |
| C1749 | S | 5.0 | S | S | 1 | 2 | 3E |
| HC84-180 (dt) | R | 4.5 | R | R | 1 | 2 | 1 |
| HC84-1060 (dt) | S | 5.3 | S | S | 2E | 2 | 1 |
| HC84-1113-5 (dt) | S | 5.7 | S | S | 2E | 34 | 3E |
| HC84-2001 (dt) | S | 5.0 | S | S | 1 | 2 | 3E |
| HC84-6420 (dt) | S | 4.0 | R | R | 1 | 2 | 3E |
| HC85-6219 (dt) | S | 6.0 | S | S | 2M | 2 | 3E |
| HC85-6409 (dt) | S | 5.5 | S | S | 1 | 0 | 3E |

## UNIFORM PRELIMINARY TEST IIB, 1988

### REGIONAL SUMMARY

| No. of Tests<br>Strain | Yield<br>11<br>bu/a | Rank<br>11<br>No. | Maturity<br>9<br>Date | Lodging<br>9<br>Score | Plant Height<br>10<br>In. | Seed Quality<br>11<br>Score | Seed Size<br>11<br>g/100 | Composition<br>Protein<br>5<br>% | <br>Oil<br>5<br>% |
|---|---|---|---|---|---|---|---|---|---|
| Elgin 87 (II) | 40.8 | 2 | 09/15.1* | 1.4 | 30 | 2.1 | 14.0 | 39.6 | 21.6 |
| Hardin (I) | 35.8 | 30 | -5.6 | 1.9 | 34 | 2.6 | 14.4 | 39.9 | 22.4 |
| Zane (III) | 39.2 | 12 | 5.6 | 1.4 | 34 | 2.3 | 17.3 | 41.3 | 21.2 |
| A87D10 | 37.2 | 22 | 2.4 | 1.4 | 33 | 2.1 | 14.4 | 42.2 | 20.8 |
| A87D20 | 38.6 | 16 | 2.7 | 1.2 | 31 | 2.2 | 14.5 | 40.4 | 21.5 |
| C1731 | 37.4 | 21 | 2.3 | 1.3 | 30 | 2.2 | 16.2 | 41.9 | 20.7 |
| C1732 | 40.1 | 5 | 4.3 | 1.3 | 31 | 2.2 | 16.0 | 43.3 | 19.6 |
| C1733 | 36.6 | 27 | -2.0 | 1.1 | 29 | 2.4 | 16.8 | 42.2 | 20.6 |
| C1734 | 36.8 | 26 | 5.6 | 1.3 | 33 | 2.1 | 14.7 | 43.1 | 19.9 |
| C1735 | 37.8 | 18 | 3.8 | 1.3 | 35 | 1.9 | 14.5 | 40.8 | 21.1 |
| C1736 | 40.2 | 4 | 0.9 | 1.5 | 34 | 2.1 | 14.1 | 41.1 | 20.7 |
| C1753 | 36.3 | 28 | 9.8 | 1.4 | 31 | 2.5 | 17.4 | 41.8 | 19.9 |
| E86067 | 37.5 | 20 | -0.9 | 1.4 | 32 | 2.2 | 15.2 | 41.3 | 21.0 |
| E86130 | 35.5 | 31 | -3.7 | 1.3 | 32 | 2.0 | 14.3 | 39.4 | 22.4 |
| E86315 | 40.3 | 3 | -0.9 | 1.3 | 33 | 2.3 | 15.6 | 40.9 | 21.3 |
| E86325 | 39.5 | 8 | -1.2 | 1.1 | 29 | 2.0 | 15.6 | 40.0 | 22.1 |
| E86328 | 39.3 | 10 | 0.7 | 1.4 | 32 | 2.1 | 14.4 | 39.5 | 20.9 |
| E86339 | 38.9 | 15 | 1.9 | 1.4 | 28 | 2.6 | 14.5 | 39.8 | 21.9 |
| E86348 | 39.2 | 12 | 4.0 | 1.2 | 32 | 2.1 | 14.8 | 40.3 | 21.1 |
| E86359 | 39.0 | 14 | 1.3 | 1.3 | 32 | 2.3 | 16.1 | 40.5 | 21.2 |
| E86368 | 36.9 | 24 | -1.1 | 1.3 | 30 | 2.6 | 14.7 | 40.5 | 21.7 |
| HM8734 | 39.3 | 10 | -0.8 | 1.4 | 33 | 2.0 | 13.7 | 40.0 | 20.9 |
| HM8735 | 37.0 | 23 | -3.4 | 1.7 | 31 | 2.1 | 13.2 | 40.7 | 21.2 |
| HM8842 | 35.2 | 34 | -1.9 | 2.0 | 36 | 2.6 | 14.7 | 41.7 | 20.9 |
| HM8844 | 33.4 | 38 | -4.3 | 2.2 | 33 | 2.3 | 14.4 | 41.1 | 21.0 |
| M84-1005 | 39.4 | 9 | -1.2 | 1.6 | 33 | 2.3 | 16.2 | 38.5 | 23.1 |
| ORC 8502 | 35.4 | 33 | -3.2 | 1.3 | 34 | 2.0 | 16.0 | 40.6 | 22.5 |
| ORC 8601 | 33.6 | 36 | -5.9 | 1.3 | 29 | 2.3 | 15.0 | 40.5 | 22.1 |
| ORC 8706 | 39.6 | 7 | 4.7 | 1.8 | 35 | 1.8 | 13.5 | 39.6 | 21.9 |
| Hoyt (dt) | 37.8 | 18 | 1.3 | 1.3 | 23 | 1.6 | 14.3 | 40.9 | 22.1 |
| A87D16 | 36.9 | 24 | 3.0 | 1.1 | 22 | 1.6 | 13.7 | 39.9 | 21.6 |
| C1749 | 34.6 | 35 | 7.2 | 1.6 | 33 | 1.8 | 13.5 | 39.9 | 21.0 |
| HC84-180 (dt) | 40.1 | 5 | 7.8 | 1.2 | 25 | 1.4 | 14.0 | 40.4 | 22.2 |
| HC84-1060 (dt) | 41.2 | 1 | 7.1 | 1.2 | 26 | 1.4 | 14.1 | 39.5 | 21.7 |
| HC84-1113-5 (dt) | 38.3 | 17 | 7.8 | 1.1 | 21 | 1.6 | 15.3 | 39.0 | 22.0 |
| HC84-2001 (dt) | 36.3 | 28 | 2.9 | 1.4 | 23 | 1.7 | 15.3 | 41.2 | 21.2 |
| HC84-6420 (dt) | 35.5 | 31 | 6.1 | 1.3 | 23 | 1.3 | 14.8 | 42.3 | 20.3 |
| HC85-6219 (dt) | 33.5 | 37 | 5.4 | 1.1 | 23 | 1.5 | 14.3 | 42.4 | 19.1 |
| HC85-6409 (dt) | 31.9 | 39 | 5.8 | 1.2 | 19 | 1.6 | 14.3 | 42.1 | 20.0 |

* 123.4 Days After Planting

## UNIFORM PRELIMINARY TEST IIB, 1988

### YIELD (bu/a)

| Strain | Mean 11 Tests | Ames IA | Marshall-town IA | Urbana IL | Lafay-ette IN | Britton MI |
|---|---|---|---|---|---|---|
| Elgin 87 (II) | 40.8 | 39.8 | 45.5 | 29.2 | 31.7 | 41.3 |
| Hardin (I) | 35.8 | 45.5 | 41.6 | 32.0 | 26.9 | 36.3 |
| Zane (III) | 39.2 | 37.5 | 47.9 | 19.2 | 37.2 | 36.2 |
| A87D10 | 37.2 | 42.8 | 41.2 | 31.4 | 34.5 | 31.3 |
| A87D20 | 38.6 | 40.4 | 39.6 | 23.5 | 39.9 | 35.1 |
| C1731 | 37.4 | 37.1 | 46.6 | 19.2 | 28.0 | 36.8 |
| C1732 | 40.1 | 39.3 | 50.0 | 20.9 | 27.9 | 40.6 |
| C1733 | 36.6 | 40.6 | 41.7 | 26.6 | 24.8 | 39.6 |
| C1734 | 36.8 | 36.6 | 42.2 | 19.3 | 24.3 | 39.1 |
| C1735 | 37.8 | 32.7 | 47.5 | 16.8 | 24.7 | 43.0 |
| C1736 | 40.2 | 37.1 | 52.0 | 15.4 | 27.6 | 42.5 |
| C1753 | 36.3 | 29.0 | 46.2 | 22.9 | 33.0 | 35.8 |
| E86067 | 37.5 | 47.7 | 48.7 | 18.2 | 32.6 | 34.1 |
| E86130 | 35.5 | 41.1 | 40.3 | 22.2 | 24.2 | 31.5 |
| E86315 | 40.3 | 45.3 | 54.5 | 19.1 | 34.6 | 35.1 |
| E86325 | 39.5 | 38.2 | 44.9 | 34.2 | 28.7 | 38.4 |
| E86328 | 39.3 | 37.3 | 47.5 | 17.6 | 30.6 | 35.9 |
| E86339 | 38.9 | 42.7 | 53.9 | 16.0 | 33.6 | 35.6 |
| E86348 | 39.2 | 42.8 | 51.0 | 22.2 | 19.5 | 32.9 |
| E86359 | 39.0 | 36.4 | 49.2 | 19.7 | 34.2 | 37.1 |
| E86368 | 36.9 | 40.4 | 44.3 | 18.6 | 36.0 | 31.6 |
| HM8734 | 39.3 | 40.8 | 45.7 | 28.0 | 30.0 | 34.9 |
| HM8735 | 37.0 | 38.8 | 34.4 | 15.9 | 28.3 | 36.3 |
| HM8842 | 35.2 | 40.6 | 39.6 | 19.1 | 32.6 | 35.3 |
| HM8844 | 33.4 | 37.6 | 30.5 | 19.9 | 23.3 | 31.6 |
| M84-1005 | 39.4 | 42.5 | 45.9 | 25.1 | 31.3 | 40.0 |
| ORC 8502 | 35.4 | 41.5 | 39.4 | 31.6 | 28.6 | 33.9 |
| ORC 8601 | 33.6 | 40.6 | 42.8 | 26.2 | 25.8 | 32.5 |
| ORC 8706 | 39.6 | 36.3 | 50.9 | 27.0 | 31.9 | 36.5 |
| Hoyt (dt) | 37.8 | 45.3 | 41.7 | 33.4 | 29.7 | 37.1 |
| A87D16 | 36.9 | 40.2 | 45.6 | 46.1 | 35.3 | 30.0 |
| C1749 | 34.6 | 35.9 | 43.1 | 31.3 | 26.2 | 30.9 |
| HC84-180 (dt) | 40.1 | 42.3 | 45.5 | 26.5 | 27.5 | 32.2 |
| HC84-1060 (dt) | 41.2 | 48.2 | 52.7 | 31.9 | 37.4 | 37.8 |
| HC84-1113-5 (dt) | 38.3 | 38.9 | 54.0 | 19.9 | 29.1 | 34.1 |
| HC84-2001 (dt) | 36.3 | 40.9 | 50.2 | 20.7 | 29.0 | 32.9 |
| HC84-6420 (dt) | 35.5 | 33.9 | 45.5 | 16.7 | 27.7 | 35.8 |
| HC85-6219 (dt) | 33.5 | 23.3 | 42.1 | 31.0 | 23.7 | 34.1 |
| HC85-6409 (dt) | 31.9 | 33.5 | 39.7 | 14.6 | 27.0 | 34.4 |
| C.V. (%) | | 11.4 | 8.8 | 36.4 | 13.8 | 10.0 |
| L.S.D. (5%) | | 9.0 | 8.0 | ns | 8.4 | ns |
| Row Sp. (In.) | | 27 | 27 | 30 | 24 | 20 |
| Rows/Plot | | 4 | 4 | 4 | 4 | 4 |
| Reps | | 2 | 2 | 2 | 2 | 2 |

## UNIFORM PRELIMINARY TEST IIB, 1988

### YIELD (bu/a)

| Mead NE | Adelphia NJ | Hoytville OH | Ridge-town Ont. | Center-ville SD | Arling-ton WI |
|---|---|---|---|---|---|
| 50.4 | 49.0 | 42.9 | 53.7 | 33.8 | 31.2 |
| 35.3 | 37.1 | 22.9 | 54.9 | 39.3 | 21.8 |
| 51.6 | 49.7 | 24.3 | 61.0 | 32.2 | 34.6 |
| 42.9 | 42.0 | 31.0 | 59.7 | 28.1 | 24.1 |
| 44.8 | 44.7 | 34.1 | 63.0 | 29.7 | 30.0 |
| 48.0 | 46.0 | 29.6 | 60.2 | 30.8 | 29.4 |
| 50.6 | 46.6 | 36.3 | 65.8 | 36.5 | 26.6 |
| 45.2 | 43.6 | 27.0 | 62.0 | 31.1 | 20.3 |
| 49.8 | 46.2 | 32.3 | 55.9 | 29.4 | 29.8 |
| 49.0 | 48.7 | 29.1 | 54.6 | 35.8 | 34.2 |
| 54.2 | 50.7 | 41.4 | 55.5 | 36.2 | 29.7 |
| 49.5 | 45.1 | 15.0 | 61.2 | 33.8 | 27.4 |
| 46.4 | 38.6 | 25.8 | 56.9 | 31.1 | 32.1 |
| 44.5 | 40.9 | 32.5 | 60.5 | 26.6 | 26.7 |
| 50.3 | 43.8 | 30.3 | 63.4 | 33.2 | 33.2 |
| 47.1 | 44.1 | 35.3 | 56.2 | 38.0 | 29.4 |
| 49.7 | 45.9 | 38.3 | 61.2 | 37.0 | 30.9 |
| 52.4 | 44.4 | 22.4 | 62.8 | 34.0 | 30.6 |
| 52.5 | 42.9 | 36.7 | 61.3 | 42.1 | 26.8 |
| 48.6 | 42.3 | 32.3 | 62.6 | 33.3 | 33.5 |
| 50.0 | 45.6 | 24.7 | 58.7 | 33.7 | 22.2 |
| 52.4 | 42.6 | 41.1 | 58.3 | 31.5 | 27.5 |
| 48.8 | 43.0 | 43.0 | 58.6 | 30.7 | 29.7 |
| 37.7 | 39.0 | 28.4 | 54.8 | 28.7 | 31.2 |
| 40.0 | 44.7 | 33.6 | 48.5 | 28.4 | 28.8 |
| 46.1 | 51.1 | 27.8 | 54.5 | 37.1 | 31.8 |
| 43.2 | 42.8 | 14.2 | 59.5 | 28.7 | 26.0 |
| 30.8 | 42.6 | 31.3 | 53.6 | 22.0 | 21.5 |
| 43.7 | 43.9 | 32.5 | 65.8 | 32.7 | 33.9 |
| 19.7 | 51.9 | 35.4 | 57.8 | 29.0 | 34.4 |
| 19.8 | 50.1 | 21.7 | 59.6 | 25.7 | 31.8 |
| 42.7 | 44.5 | 19.9 | 54.4 | 26.7 | 25.0 |
| 42.1 | 54.2 | 42.5 | 61.1 | 35.3 | 31.8 |
| 38.7 | 57.5 | 33.7 | 54.1 | 33.0 | 28.6 |
| 43.5 | 54.8 | 21.6 | 55.2 | 41.6 | 28.6 |
| 46.6 | 49.0 | 23.7 | 49.6 | 29.1 | 27.8 |
| 41.4 | 50.6 | 21.4 | 59.6 | 25.9 | 32.1 |
| 29.1 | 45.7 | 32.8 | 54.2 | 22.9 | 29.9 |
| 27.3 | 42.4 | 31.8 | 53.0 | 18.3 | 29.1 |
| 7.5 | 11.7 | | 5.7 | 14.1 | 13.2 |
| 6.6 | 8.0 | | 6.7 | 8.9 | 7.7 |
| 30 | 30 | 15 | 24 | 30 | 30 |
| 2 | 4 | 5 | 4 | 4 | 4 |
| 2 | 2 | 2 | 2 | 2 | 2 |

## UNIFORM PRELIMINARY TEST IIB, 1988

### YIELD RANK

| Strain | Yield Rank | Ames IA | Marshall-town IA | Urbana IL | Lafay-ette IN | Britton MI |
|---|---|---|---|---|---|---|
| Elgin 87 (II) | 2 | 21 | 20 | 10 | 14 | 3 |
| Hardin (I) | 30 | 3 | 31 | 4 | 30 | 14 |
| Zane (III) | 12 | 27 | 12 | 27 | 3 | 16 |
| A87D10 | 22 | 6 | 32 | 7 | 7 | 37 |
| A87D20 | 16 | 18 | 35 | 17 | 1 | 22 |
| C1731 | 21 | 29 | 15 | 27 | 24 | 12 |
| C1732 | 5 | 22 | 9 | 21 | 25 | 4 |
| C1733 | 27 | 15 | 29 | 13 | 33 | 6 |
| C1734 | 26 | 31 | 27 | 26 | 35 | 7 |
| C1735 | 18 | 37 | 13 | 34 | 34 | 1 |
| C1736 | 4 | 29 | 5 | 38 | 27 | 2 |
| C1753 | 28 | 38 | 16 | 18 | 10 | 18 |
| E86067 | 20 | 2 | 11 | 32 | 11 | 26 |
| E86130 | 31 | 12 | 33 | 19 | 36 | 36 |
| E86315 | 3 | 4 | 1 | 29 | 6 | 22 |
| E86325 | 8 | 25 | 23 | 2 | 21 | 8 |
| E86328 | 10 | 28 | 13 | 33 | 16 | 17 |
| E86339 | 15 | 8 | 3 | 36 | 9 | 20 |
| E86348 | 12 | 6 | 6 | 19 | 39 | 30 |
| E86359 | 14 | 32 | 10 | 25 | 8 | 10 |
| E86368 | 24 | 18 | 24 | 31 | 4 | 34 |
| HM8734 | 10 | 14 | 18 | 11 | 17 | 24 |
| HM8735 | 23 | 24 | 38 | 37 | 23 | 14 |
| HM8842 | 34 | 15 | 35 | 29 | 11 | 21 |
| HM8844 | 38 | 26 | 39 | 23 | 38 | 34 |
| M84-1005 | 9 | 9 | 17 | 16 | 15 | 5 |
| ORC 8502 | 33 | 11 | 37 | 6 | 22 | 29 |
| ORC 8601 | 36 | 15 | 26 | 15 | 32 | 32 |
| ORC 8706 | 7 | 33 | 7 | 12 | 13 | 13 |
| Hoyt (dt) | 18 | 4 | 29 | 3 | 18 | 10 |
| A87D16 | 24 | 20 | 19 | 1 | 5 | 39 |
| C1749 | 35 | 34 | 25 | 8 | 31 | 38 |
| HC84-180 (dt) | 5 | 10 | 20 | 14 | 28 | 33 |
| HC84-1060 (dt) | 1 | 1 | 4 | 5 | 2 | 9 |
| HC84-1113-5 (dt) | 17 | 23 | 2 | 23 | 19 | 26 |
| HC84-2001 (dt) | 28 | 13 | 8 | 22 | 20 | 30 |
| HC84-6420 (dt) | 31 | 35 | 20 | 35 | 26 | 18 |
| HC85-6219 (dt) | 37 | 39 | 28 | 9 | 37 | 26 |
| HC85-6409 (dt) | 39 | 36 | 34 | 39 | 29 | 25 |

## UNIFORM PRELIMINARY TEST IIB, 1988

### YIELD RANK

| Mead NE | Adelphia NJ | Hoytville OH | Ridge-town Ont. | Center-ville SD | Arling-ton WI |
|---|---|---|---|---|---|
| 7 | 10 | 2 | 35 | 12 | 12 |
| 34 | 39 | 32 | 28 | 3 | 37 |
| 5 | 9 | 30 | 12 | 19 | 1 |
| 27 | 35 | 21 | 15 | 32 | 35 |
| 22 | 20 | 11 | 4 | 25 | 16 |
| 16 | 15 | 23 | 14 | 23 | 21 |
| 6 | 13 | 8 | 1 | 7 | 32 |
| 21 | 27 | 27 | 7 | 21 | 39 |
| 10 | 14 | 17 | 25 | 26 | 18 |
| 13 | 12 | 24 | 30 | 9 | 3 |
| 1 | 6 | 4 | 26 | 8 | 19 |
| 12 | 19 | 38 | 9 | 12 | 29 |
| 19 | 38 | 28 | 23 | 21 | 7 |
| 23 | 36 | 15 | 13 | 34 | 31 |
| 8 | 26 | 22 | 3 | 16 | 6 |
| 17 | 24 | 10 | 24 | 4 | 21 |
| 11 | 16 | 6 | 9 | 6 | 14 |
| 3 | 23 | 33 | 5 | 11 | 15 |
| 2 | 29 | 7 | 8 | 1 | 30 |
| 15 | 34 | 17 | 6 | 15 | 5 |
| 9 | 18 | 29 | 19 | 14 | 36 |
| 3 | 31 | 5 | 21 | 20 | 28 |
| 14 | 28 | 1 | 20 | 24 | 19 |
| 33 | 37 | 25 | 29 | 29 | 12 |
| 31 | 20 | 13 | 39 | 31 | 24 |
| 20 | 5 | 26 | 31 | 5 | 10 |
| 26 | 30 | 39 | 18 | 29 | 33 |
| 35 | 31 | 20 | 36 | 38 | 38 |
| 24 | 25 | 15 | 1 | 18 | 4 |
| 39 | 4 | 9 | 22 | 28 | 2 |
| 38 | 8 | 34 | 16 | 36 | 10 |
| 28 | 22 | 37 | 32 | 33 | 34 |
| 29 | 3 | 3 | 11 | 10 | 9 |
| 32 | 1 | 12 | 34 | 17 | 25 |
| 25 | 2 | 35 | 27 | 2 | 25 |
| 18 | 10 | 31 | 38 | 27 | 27 |
| 30 | 7 | 36 | 16 | 35 | 7 |
| 36 | 17 | 14 | 33 | 37 | 17 |
| 37 | 33 | 19 | 37 | 39 | 23 |

## UNIFORM PRELIMINARY TEST IIB, 1988

### MATURITY (date)

| Strain | Mean 9 Tests | Ames IA | Marshall-town IA | Urbana IL | Lafay-ette IN | Britton MI |
|---|---|---|---|---|---|---|
| Elgin 87 (II) | 09/15.1 | 09/01 | | 09/05 | 09/07 | 09/17 |
| Hardin (I) | -5.6 | -6 | | -3 | -5 | -7 |
| Zane (III) | 5.6 | 8 | | 1 | 7 | 5 |
| A87D10 | 2.4 | 2 | | 1 | 7 | 2 |
| A87D20 | 2.7 | 6 | | -1 | 4 | 2 |
| C1731 | 2.3 | 5 | | -3 | 2 | 4 |
| C1732 | 4.3 | 8 | | -1 | 7 | 5 |
| C1733 | -2.0 | -2 | | -4 | -2 | -1 |
| C1734 | 5.6 | 8 | | -1 | 7 | 7 |
| C1735 | 3.8 | 6 | | -6 | -1 | 6 |
| C1736 | 0.9 | 4 | | -3 | 1 | 2 |
| C1753 | 9.8 | 12 | | 5 | 13 | 10 |
| E86067 | -0.9 | 2 | | -10 | 1 | 0 |
| E86130 | -3.7 | -2 | | -10 | -5 | -3 |
| E86315 | -0.9 | 2 | | -3 | -1 | -1 |
| E86325 | -1.2 | -4 | | 0 | -4 | -1 |
| E86328 | 0.7 | 2 | | -3 | -3 | 1 |
| E86339 | 1.9 | 1 | | -2 | 4 | 1 |
| E86348 | 4.0 | 8 | | 1 | 2 | 2 |
| E86359 | 1.3 | 2 | | -3 | 4 | 2 |
| E86368 | -1.1 | -3 | | -3 | -2 | -2 |
| HM8734 | -0.8 | 2 | | -1 | -1 | 2 |
| HM8735 | -3.4 | -2 | | -9 | -4 | -3 |
| HM8842 | -1.9 | -2 | | -8 | 3 | 3 |
| HM8844 | -4.3 | -6 | | -8 | -5 | -1 |
| M84-1005 | -1.2 | -1 | | -5 | -2 | -3 |
| ORC 8502 | -3.2 | -2 | | -4 | -1 | -4 |
| ORC 8601 | -5.9 | -6 | | -7 | -6 | -10 |
| ORC 8706 | 4.7 | 7 | | 3 | 7 | 3 |
| Hoyt (dt) | 1.3 | 2 | | 1 | 2 | 0 |
| A87D16 | 3.0 | 6 | | 5 | 3 | 1 |
| C1749 | 7.2 | 11 | | 7 | 5 | 8 |
| HC84-180 (dt) | 7.8 | 11 | | 6 | 10 | 7 |
| HC84-1060 (dt) | 7.1 | 11 | | 6 | 10 | 4 |
| HC84-1113-5 (dt) | 7.8 | 10 | | 2 | 8 | 8 |
| HC84-2001 (dt) | 2.9 | 8 | | -1 | 5 | 1 |
| HC84-6420 (dt) | 6.1 | 8 | | -1 | 9 | 8 |
| HC85-6219 (dt) | 5.4 | 8 | | 5 | 10 | 5 |
| HC85-6409 (dt) | 5.8 | 8 | | -2 | 12 | 8 |
| Date Planted | 05/14.7 | 05/04 | | 05/03 | 05/10 | 05/05 |
| Days to Mature | 123 | 120 | | 125 | 120 | 135 |

## UNIFORM PRELIMINARY TEST IIB, 1988

### MATURITY (date)

| Mead NE | Adelphia NJ | Hoytville OH | Ridge-town Ont. | Center-ville SD | Arling-ton WI |
|---|---|---|---|---|---|
| 09/12 | 09/29 | | 09/28 | 09/17 | 09/20 |
| -8 | -7 | | -2 | -10 | -2 |
| 6 | 1 | | 7 | 5 | 10 |
| -1 | -2 | | 6 | 0 | 7 |
| -1 | -1 | | 7 | 3 | 5 |
| 2 | 1 | | 4 | 1 | 5 |
| 4 | 1 | | 4 | 1 | 10 |
| -3 | -4 | | -3 | -1 | 2 |
| 6 | 3 | | 4 | 4 | 12 |
| 5 | 5 | | 10 | -1 | 10 |
| 1 | -1 | | 3 | -4 | 5 |
| 14 | 6 | | 10 | 6 | 12 |
| 0 | -5 | | 1 | 1 | 2 |
| -4 | -3 | | -2 | -4 | 0 |
| -2 | -3 | | 0 | -2 | 2 |
| -1 | -3 | | 4 | -4 | 2 |
| 1 | 1 | | 4 | 1 | 2 |
| 6 | -1 | | 1 | 2 | 5 |
| 3 | 1 | | 5 | 4 | 10 |
| 2 | 0 | | 2 | 0 | 3 |
| -3 | -3 | | 1 | 1 | 4 |
| -2 | -5 | | 2 | -2 | -2 |
| -5 | -4 | | -2 | 0 | -2 |
| -2 | -7 | | -1 | -6 | 3 |
| -7 | -5 | | 0 | -5 | -2 |
| -3 | -1 | | 1 | -1 | 4 |
| -6 | -6 | | 0 | 0 | -6 |
| -11 | -6 | | -1 | -6 | 0 |
| 8 | 0 | | 7 | 0 | 7 |
| 1 | 0 | | 4 | 0 | 2 |
| 3 | -1 | | 4 | -1 | 7 |
| 8 | 2 | | 8 | 4 | 12 |
| 9 | 5 | | 7 | 3 | 12 |
| 8 | 2 | | 10 | 1 | 12 |
| 14 | 3 | | 7 | 4 | 14 |
| 6 | -3 | | 3 | 2 | 5 |
| 9 | 5 | | 8 | 2 | 7 |
| 8 | 1 | | 5 | 2 | 5 |
| 7 | 3 | | 6 | 3 | 7 |
| 05/11 | 06/15 | | 05/24 | 05/16 | 05/13 |
| 124 | 106 | | 127 | 124 | 130 |

## UNIFORM PRELIMINARY TEST IIB, 1988

### LODGING (score)

| Strain | Mean 9 Tests | Ames IA | Marshall-town IA | Urbana IL | Lafay-ette IN | Britton MI |
|---|---|---|---|---|---|---|
| Elgin 87 (II) | 1.4 | 1.2 | 1.1 | 1.0 | 1.3 | 1.0 |
| Hardin (I) | 1.9 | 1.9 | 1.8 | 2.0 | 1.5 | 1.0 |
| Zane (III) | 1.4 | 1.3 | 1.0 | 1.0 | 1.0 | 1.0 |
| A87D10 | 1.4 | 1.6 | 1.2 | 1.0 | 1.0 | 1.0 |
| A87D20 | 1.2 | 1.4 | 1.1 | 1.0 | 1.0 | 1.0 |
| C1731 | 1.3 | 1.4 | 1.0 | 1.0 | 1.0 | 1.0 |
| C1732 | 1.3 | 1.4 | 1.0 | 1.0 | 1.0 | 1.0 |
| C1733 | 1.1 | 1.2 | 1.1 | 1.0 | 1.0 | 1.0 |
| C1734 | 1.3 | 1.2 | 1.1 | 1.0 | 1.0 | 1.0 |
| C1735 | 1.3 | 1.2 | 1.1 | 1.0 | 1.0 | 1.0 |
| C1736 | 1.5 | 1.6 | 1.1 | 1.0 | 1.0 | 1.0 |
| C1753 | 1.4 | 2.0 | 1.2 | 1.0 | 1.0 | 1.0 |
| E86067 | 1.4 | 1.4 | 1.2 | 1.0 | 1.3 | 1.0 |
| E86130 | 1.3 | 1.7 | 1.1 | 1.5 | 1.0 | 1.0 |
| E86315 | 1.3 | 1.3 | 1.1 | 1.0 | 1.0 | 1.0 |
| E86325 | 1.1 | 1.1 | 1.0 | 1.0 | 1.0 | 1.0 |
| E86328 | 1.4 | 1.3 | 1.2 | 1.0 | 1.0 | 1.0 |
| E86339 | 1.4 | 1.3 | 1.2 | 1.0 | 1.0 | 1.0 |
| E86348 | 1.2 | 1.2 | 1.0 | 1.0 | 1.0 | 1.0 |
| E86359 | 1.3 | 1.2 | 1.1 | 1.0 | 1.0 | 1.0 |
| E86368 | 1.3 | 1.1 | 1.0 | 1.0 | 1.0 | 1.0 |
| HM8734 | 1.4 | 1.5 | 1.2 | 1.5 | 1.0 | 1.0 |
| HM8735 | 1.7 | 1.4 | 1.4 | 1.5 | 1.0 | 1.5 |
| HM8842 | 2.0 | 2.3 | 1.8 | 2.0 | 1.3 | 1.5 |
| HM8844 | 2.2 | 1.9 | 1.6 | 1.5 | 1.8 | 3.0 |
| M84-1005 | 1.6 | 1.6 | 1.4 | 1.5 | 1.0 | 1.0 |
| ORC 8502 | 1.3 | 1.3 | 1.1 | 1.5 | 1.0 | 1.0 |
| ORC 8601 | 1.3 | 1.2 | 1.1 | 1.0 | 1.0 | 1.0 |
| ORC 8706 | 1.8 | 1.5 | 1.7 | 2.0 | 2.0 | 1.0 |
| Hoyt (dt) | 1.3 | 1.1 | 1.0 | 1.0 | 1.0 | 1.0 |
| A87D16 | 1.1 | 1.2 | 1.1 | 1.0 | 1.0 | 1.0 |
| C1749 | 1.6 | 1.5 | 1.3 | 1.0 | 1.3 | 1.5 |
| HC84-180 (dt) | 1.2 | 1.2 | 1.0 | 1.0 | 1.0 | 1.0 |
| HC84-1060 (dt) | 1.2 | 1.2 | 1.0 | 1.0 | 1.0 | 1.0 |
| HC84-1113-5 (dt) | 1.1 | 1.1 | 1.0 | 1.0 | 1.0 | 1.0 |
| HC84-2001 (dt) | 1.4 | 1.2 | 1.1 | 1.0 | 1.0 | 1.0 |
| HC84-6420 (dt) | 1.3 | 1.2 | 1.0 | 1.0 | 1.0 | 1.0 |
| HC85-6219 (dt) | 1.1 | 1.2 | 1.0 | 1.0 | 1.0 | 1.0 |
| HC85-6409 (dt) | 1.2 | 1.1 | 1.0 | 1.0 | 1.0 | 1.0 |

## UNIFORM PRELIMINARY TEST IIB, 1988

### LODGING (score)

| Mead NE | Adelphia NJ | Hoytville OH | Ridge-town Ont. | Center-ville SD | Arling-ton WI |
|---|---|---|---|---|---|
| 1.0 | 2.0 | | 3.0 | | 1.3 |
| 1.8 | 2.5 | | 3.5 | | 1.3 |
| 1.0 | 1.5 | | 3.0 | | 1.5 |
| 1.0 | 1.0 | | 3.5 | | 1.0 |
| 1.0 | 1.0 | | 2.0 | | 1.3 |
| 1.0 | 1.0 | | 2.5 | | 1.8 |
| 1.0 | 1.5 | | 2.5 | | 1.0 |
| 1.0 | 1.0 | | 2.0 | | 1.0 |
| 1.0 | 1.5 | | 2.5 | | 1.0 |
| 1.0 | 1.0 | | 3.0 | | 1.0 |
| 1.0 | 2.0 | | 3.0 | | 1.5 |
| 1.0 | 1.5 | | 2.0 | | 1.5 |
| 1.0 | 1.0 | | 3.0 | | 1.3 |
| 1.0 | 1.0 | | 2.5 | | 1.3 |
| 1.0 | 1.5 | | 2.5 | | 1.3 |
| 1.0 | 1.5 | | 1.5 | | 1.0 |
| 1.0 | 2.0 | | 3.0 | | 1.3 |
| 1.0 | 2.0 | | 2.5 | | 1.5 |
| 1.0 | 1.0 | | 2.5 | | 1.3 |
| 1.0 | 1.0 | | 3.0 | | 1.3 |
| 1.0 | 1.5 | | 3.0 | | 1.0 |
| 1.0 | 1.5 | | 3.0 | | 1.0 |
| 1.0 | 3.5 | | 2.5 | | 1.5 |
| 1.5 | 3.0 | | 3.5 | | 1.5 |
| 1.5 | 3.5 | | 3.5 | | 1.8 |
| 1.3 | 2.5 | | 3.0 | | 1.3 |
| 1.0 | 1.5 | | 2.0 | | 1.0 |
| 1.0 | 2.5 | | 2.0 | | 1.0 |
| 1.0 | 2.5 | | 3.0 | | 1.3 |
| 1.0 | 2.0 | | 1.5 | | 2.0 |
| 1.0 | 1.5 | | 1.0 | | 1.3 |
| 1.0 | 1.5 | | 3.5 | | 1.5 |
| 1.0 | 1.5 | | 1.5 | | 1.3 |
| 1.0 | 2.0 | | 1.5 | | 1.3 |
| 1.0 | 1.0 | | 2.0 | | 1.0 |
| 1.0 | 2.5 | | 2.0 | | 1.5 |
| 1.0 | 2.0 | | 2.0 | | 1.5 |
| 1.0 | 1.0 | | 1.5 | | 1.0 |
| 1.0 | 1.0 | | 2.0 | | 1.3 |

## UNIFORM PRELIMINARY TEST IIB, 1988

### PLANT HEIGHT (inches)

| Strain | Mean 10 Tests | Ames IA | Marshall-town IA | Urbana IL | Lafay-ette IN | Britton MI |
|---|---|---|---|---|---|---|
| Elgin 87 (II) | 30 | 33 | 32 | 31 | 33 | 27 |
| Hardin (I) | 34 | 38 | 37 | 34 | 34 | 32 |
| Zane (III) | 34 | 40 | 42 | 31 | 35 | 32 |
| A87D10 | 33 | 36 | 40 | 32 | 35 | 35 |
| A87D20 | 31 | 35 | 34 | 24 | 34 | 31 |
| C1731 | 30 | 34 | 35 | 25 | 31 | 31 |
| C1732 | 31 | 38 | 36 | 27 | 31 | 31 |
| C1733 | 29 | 34 | 32 | 26 | 29 | 30 |
| C1734 | 33 | 38 | 38 | 26 | 31 | 33 |
| C1735 | 35 | 38 | 40 | 27 | 34 | 38 |
| C1736 | 34 | 40 | 41 | 27 | 32 | 32 |
| C1753 | 31 | 35 | 36 | 27 | 34 | 28 |
| E86067 | 32 | 38 | 38 | 28 | 35 | 29 |
| E86130 | 32 | 38 | 34 | 32 | 36 | 30 |
| E86315 | 33 | 36 | 40 | 29 | 34 | 33 |
| E86325 | 29 | 32 | 32 | 28 | 30 | 30 |
| E86328 | 32 | 37 | 37 | 28 | 32 | 31 |
| E86339 | 28 | 30 | 36 | 24 | 29 | 27 |
| E86348 | 32 | 37 | 38 | 29 | 30 | 31 |
| E86359 | 32 | 38 | 38 | 28 | 35 | 30 |
| E86368 | 30 | 33 | 34 | 27 | 33 | 31 |
| HM8734 | 33 | 39 | 38 | 30 | 31 | 35 |
| HM8735 | 31 | 36 | 32 | 28 | 31 | 33 |
| HM8842 | 36 | 42 | 44 | 31 | 38 | 38 |
| HM8844 | 33 | 38 | 35 | 31 | 33 | 34 |
| M84-1005 | 33 | 36 | 35 | 27 | 32 | 36 |
| ORC 8502 | 34 | 40 | 38 | 34 | 34 | 33 |
| ORC 8601 | 29 | 32 | 35 | 27 | 28 | 29 |
| ORC 8706 | 35 | 40 | 42 | 34 | 39 | 32 |
| Hoyt (dt) | 23 | 24 | 24 | 21 | 23 | 25 |
| A87D16 | 22 | 24 | 22 | 24 | 26 | 20 |
| C1749 | 33 | 40 | 39 | 36 | 31 | 35 |
| HC84-180 (dt) | 25 | 31 | 24 | 23 | 27 | 26 |
| HC84-1060 (dt) | 26 | 29 | 28 | 23 | 29 | 27 |
| HC84-1113-5 (dt) | 21 | 20 | 23 | 21 | 24 | 22 |
| HC84-2001 (dt) | 23 | 20 | 24 | 22 | 24 | 22 |
| HC84-6420 (dt) | 23 | 22 | 24 | 22 | 26 | 25 |
| HC85-6219 (dt) | 23 | 24 | 24 | 22 | 23 | 25 |
| HC85-6409 (dt) | 19 | 17 | 20 | 19 | 22 | 18 |

## UNIFORM PRELIMINARY TEST IIB, 1988

### PLANT HEIGHT (inches)

| Mead NE | Adelphia NJ | Hoytville OH | Ridge-town Ont. | Center-ville SD | Arling-ton WI |
|---|---|---|---|---|---|
| 31 | 28 | | 37 | 20 | 31 |
| 28 | 33 | | 44 | 26 | 29 |
| 37 | 29 | | 42 | 24 | 32 |
| 33 | 28 | | 40 | 22 | 27 |
| 29 | 28 | | 42 | 24 | 29 |
| 29 | 26 | | 38 | 23 | 26 |
| 29 | 26 | | 40 | 25 | 30 |
| 27 | 25 | | 38 | 21 | 25 |
| 33 | 30 | | 42 | 25 | 33 |
| 34 | 29 | | 44 | 28 | 33 |
| 37 | 31 | | 42 | 26 | 33 |
| 33 | 25 | | 41 | 25 | 30 |
| 30 | 28 | | 39 | 23 | 27 |
| 31 | 28 | | 39 | 26 | 29 |
| 33 | 28 | | 41 | 22 | 30 |
| 27 | 28 | | 37 | 24 | 25 |
| 36 | 28 | | 40 | 26 | 29 |
| 28 | 26 | | 33 | 21 | 23 |
| 35 | 29 | | 40 | 25 | 30 |
| 31 | 30 | | 39 | 22 | 28 |
| 29 | 26 | | 39 | 21 | 27 |
| 34 | 28 | | 38 | 24 | 34 |
| 33 | 28 | | 36 | 24 | 33 |
| 34 | 35 | | 40 | 27 | 29 |
| 29 | 29 | | 41 | 28 | 34 |
| 31 | 30 | | 42 | 26 | 30 |
| 31 | 30 | | 43 | 24 | 32 |
| 21 | 30 | | 41 | 19 | 26 |
| 36 | 30 | | 40 | 26 | 32 |
| 14 | 25 | | 26 | 18 | 30 |
| 16 | 22 | | 26 | 20 | 23 |
| 28 | 24 | | 39 | 26 | 34 |
| 18 | 22 | | 30 | 22 | 31 |
| 20 | 24 | | 29 | 24 | 30 |
| 15 | 22 | | 25 | 20 | 21 |
| 17 | 25 | | 27 | 19 | 28 |
| 16 | 22 | | 27 | 21 | 27 |
| 14 | 26 | | 26 | 19 | 23 |
| 13 | 18 | | 23 | 15 | 21 |

## UNIFORM PRELIMINARY TEST IIB, 1988

### SEED QUALITY (score)

| Strain | Mean 11 Tests | Ames IA | Marshall-town IA | Urbana IL | Lafay-ette IN | Britton MI |
|---|---|---|---|---|---|---|
| Elgin 87 (II) | 2.1 | 3.7 | 1.2 | 3.5 | 1.5 | 1.0 |
| Hardin (I) | 2.6 | 3.8 | 1.7 | 3.2 | 2.0 | 2.0 |
| Zane (III) | 2.3 | 3.8 | 1.7 | 4.4 | 1.5 | 1.0 |
| A87D10 | 2.1 | 3.3 | 1.6 | 3.5 | 1.5 | 1.0 |
| A87D20 | 2.2 | 3.8 | 2.1 | 3.3 | 2.0 | 1.0 |
| C1731 | 2.2 | 3.6 | 2.6 | 3.0 | 2.5 | 1.0 |
| C1732 | 2.2 | 3.0 | 2.2 | 3.9 | 3.5 | 1.0 |
| C1733 | 2.4 | 3.2 | 2.4 | 3.3 | 3.0 | 1.0 |
| C1734 | 2.1 | 3.5 | 2.4 | 2.8 | 2.0 | 1.0 |
| C1735 | 1.9 | 3.7 | 1.2 | 2.9 | 1.0 | 1.0 |
| C1736 | 2.1 | 3.7 | 1.7 | 3.9 | 2.0 | 1.0 |
| C1753 | 2.5 | 4.3 | 1.8 | 2.9 | 1.5 | 1.0 |
| E86067 | 2.2 | 2.8 | 1.4 | 4.0 | 2.5 | 1.0 |
| E86130 | 2.0 | 2.8 | 1.7 | 3.0 | 1.5 | 1.0 |
| E86315 | 2.3 | 4.1 | 1.8 | 4.0 | 2.0 | 1.5 |
| E86325 | 2.0 | 1.7 | 1.6 | 2.9 | 2.5 | 1.0 |
| E86328 | 2.1 | 2.8 | 1.3 | 4.3 | 2.0 | 1.0 |
| E86339 | 2.6 | 4.2 | 2.4 | 4.4 | 2.5 | 1.0 |
| E86348 | 2.1 | 3.6 | 1.3 | 3.0 | 2.5 | 1.0 |
| E86359 | 2.3 | 3.0 | 1.8 | 3.9 | 2.0 | 1.0 |
| E86368 | 2.6 | 2.9 | 2.4 | 4.3 | 2.0 | 1.5 |
| HM8734 | 2.0 | 2.1 | 1.2 | 3.3 | 2.5 | 1.0 |
| HM8735 | 2.1 | 2.7 | 1.4 | 4.0 | 2.0 | 1.0 |
| HM8842 | 2.6 | 3.3 | 2.0 | 4.0 | 2.5 | 1.5 |
| HM8844 | 2.3 | 3.9 | 2.0 | 3.7 | 2.5 | 1.0 |
| M84-1005 | 2.3 | 3.2 | 2.4 | 3.7 | 2.0 | 1.0 |
| ORC 8502 | 2.0 | 2.3 | 2.0 | 2.0 | 1.0 | 1.0 |
| ORC 8601 | 2.3 | 3.1 | 2.5 | 2.9 | 2.0 | 1.0 |
| ORC 8706 | 1.8 | 3.7 | 1.8 | 2.3 | 1.0 | 1.0 |
| Hoyt (dt) | 1.6 | 2.2 | 2.1 | 1.9 | 1.0 | 1.0 |
| A87D16 | 1.6 | 2.4 | 1.6 | 1.8 | 1.0 | 1.0 |
| C1749 | 1.8 | 3.7 | 1.1 | 2.5 | 1.0 | 1.0 |
| HC84-180 (dt) | 1.4 | 2.5 | 1.6 | 2.1 | 1.0 | 1.0 |
| HC84-1060 (dt) | 1.4 | 1.8 | 1.2 | 2.0 | 1.0 | 1.0 |
| HC84-1113-5 (dt) | 1.6 | 2.0 | 1.1 | 1.5 | 1.0 | 2.0 |
| HC84-2001 (dt) | 1.7 | 3.2 | 1.6 | 4.0 | 1.5 | 1.0 |
| HC84-6420 (dt) | 1.3 | 1.7 | 1.2 | 1.8 | 1.0 | 1.0 |
| HC85-6219 (dt) | 1.5 | 3.0 | 1.1 | 2.0 | 1.0 | 1.0 |
| HC85-6409 (dt) | 1.6 | 3.3 | 1.6 | 2.4 | 1.0 | 1.0 |

## UNIFORM PRELIMINARY TEST IIB, 1988

### SEED QUALITY (score)

| Mead NE | Adelphia NJ | Hoytville OH | Ridge-town Ont. | Center-ville SD | Arling-ton WI |
|---|---|---|---|---|---|
| 1.8 | 1.0 | 2.1 | 1.0 | 5.0 | 1.5 |
| 3.0 | 1.0 | 2.6 | 1.0 | 5.0 | 3.5 |
| 2.0 | 1.0 | 3.1 | 1.0 | 4.0 | 1.5 |
| 2.3 | 1.0 | 2.2 | 1.0 | 4.0 | 2.0 |
| 1.8 | 1.0 | 2.2 | 1.0 | 5.0 | 1.5 |
| 1.8 | 2.0 | 2.0 | 1.0 | 4.0 | 1.0 |
| 2.0 | 1.5 | 1.6 | 1.0 | 3.0 | 1.0 |
| 2.3 | 2.5 | 1.5 | 1.0 | 3.0 | 3.0 |
| 1.8 | 2.0 | 1.7 | 1.0 | 3.0 | 2.0 |
| 2.0 | 1.0 | 2.5 | 1.0 | 3.0 | 1.5 |
| 1.8 | 1.5 | 1.7 | 1.0 | 4.0 | 1.0 |
| 2.0 | 1.0 | 2.6 | 1.0 | 5.0 | 4.5 |
| 2.3 | 1.0 | 1.9 | 2.0 | 4.0 | 1.5 |
| 2.0 | 1.5 | 2.2 | 2.0 | 3.0 | 1.0 |
| 2.0 | 1.0 | 1.6 | 1.0 | 4.0 | 2.0 |
| 2.0 | 1.0 | 2.0 | 1.0 | 4.0 | 2.0 |
| 2.0 | 1.0 | 1.8 | 1.0 | 4.0 | 1.5 |
| 2.0 | 1.0 | 2.2 | 1.0 | 5.0 | 3.0 |
| 1.8 | 1.0 | 2.4 | 1.0 | 4.0 | 1.5 |
| 2.0 | 1.0 | 3.1 | 1.0 | 5.0 | 2.0 |
| 2.3 | 2.5 | 2.7 | 1.0 | 5.0 | 2.5 |
| 1.8 | 1.0 | 1.6 | 1.0 | 5.0 | 1.5 |
| 1.8 | 1.0 | 2.0 | 1.0 | 5.0 | 1.5 |
| 2.8 | 1.0 | 1.7 | 2.0 | 4.0 | 3.5 |
| 2.0 | 1.0 | 2.1 | 2.0 | 4.0 | 1.5 |
| 2.5 | 1.0 | 1.6 | 2.0 | 3.0 | 2.5 |
| 2.0 | 1.5 | 2.2 | 1.0 | 5.0 | 2.0 |
| 3.3 | 1.0 | 1.7 | 1.0 | 4.0 | 3.0 |
| 1.5 | 1.0 | 2.0 | 2.0 | 3.0 | 1.0 |
| 2.0 | 1.0 | 1.4 | 2.0 | 2.0 | 1.0 |
| 1.8 | 1.0 | 1.7 | 1.0 | 3.0 | 1.0 |
| 1.8 | 1.0 | 2.0 | 1.0 | 3.0 | 1.5 |
| 1.0 | 1.0 | 1.5 | 1.0 | 2.0 | 1.0 |
| 1.5 | 1.0 | 1.8 | 1.0 | 2.0 | 1.0 |
| 1.0 | 1.0 | 1.5 | 1.0 | 3.0 | 2.0 |
| 1.0 | 1.0 | 1.8 | 1.0 | 2.0 | 1.0 |
| 1.0 | 1.0 | 1.6 | 1.0 | 2.0 | 1.0 |
| 1.0 | 1.0 | 2.0 | 1.0 | 2.0 | 1.0 |
| 1.3 | 1.0 | 1.8 | 1.0 | 2.0 | 1.0 |

## UNIFORM PRELIMINARY TEST IIB, 1988

### SEED SIZE (g\100)

| Strain | Mean 11 Tests | Ames IA | Marshall-town IA | Urbana IL | Lafay-ette IN | Britton MI |
|---|---|---|---|---|---|---|
| Elgin 87 (II) | 14.0 | 11.9 | 15.0 | 11.4 | 10.5 | 14.6 |
| Hardin (I) | 14.4 | 13.1 | 13.5 | 13.9 | 12.9 | 13.9 |
| Zane (III) | 17.3 | 15.3 | 18.7 | 12.9 | 13.7 | 18.3 |
| A87D10 | 14.4 | 12.5 | 14.3 | 13.1 | 10.5 | 14.6 |
| A87D20 | 14.5 | 12.0 | 14.3 | 10.9 | 11.7 | 16.0 |
| C1731 | 16.2 | 14.4 | 17.3 | 11.0 | 12.9 | 17.4 |
| C1732 | 16.0 | 14.0 | 17.1 | 11.0 | 10.7 | 18.5 |
| C1733 | 16.8 | 15.1 | 16.6 | 13.4 | 12.7 | 17.7 |
| C1734 | 14.7 | 12.9 | 15.3 | 10.4 | 10.6 | 16.0 |
| C1735 | 14.5 | 11.3 | 14.7 | 9.4 | 11.1 | 16.4 |
| C1736 | 14.1 | 12.2 | 14.5 | 9.1 | 10.6 | 15.3 |
| C1753 | 17.4 | 15.2 | 19.2 | 12.1 | 13.1 | 19.9 |
| E86067 | 15.2 | 14.6 | 15.1 | 9.9 | 11.9 | 15.1 |
| E86130 | 14.3 | 12.9 | 14.7 | 10.2 | 11.1 | 13.7 |
| E86315 | 15.6 | 14.9 | 16.9 | 10.7 | 13.0 | 15.3 |
| E86325 | 15.6 | 13.0 | 15.6 | 13.7 | 12.5 | 16.6 |
| E86328 | 14.4 | 12.1 | 15.5 | 9.3 | 12.6 | 16.0 |
| E86339 | 14.5 | 12.8 | 15.3 | 10.2 | 12.0 | 15.1 |
| E86348 | 14.8 | 13.5 | 16.9 | 10.7 | 10.7 | 15.1 |
| E86359 | 16.1 | 12.8 | 16.9 | 11.1 | 12.5 | 17.2 |
| E86368 | 14.7 | 12.8 | 15.3 | 11.4 | 12.0 | 14.5 |
| HM8734 | 13.7 | 11.8 | 14.0 | 11.7 | 10.5 | 14.2 |
| HM8735 | 13.2 | 12.0 | 12.9 | 10.3 | 9.5 | 14.1 |
| HM8842 | 14.7 | 12.6 | 14.1 | 11.3 | 13.7 | 17.6 |
| HM8844 | 14.4 | 12.3 | 13.6 | 11.6 | 12.0 | 15.1 |
| M84-1005 | 16.2 | 15.2 | 16.2 | 12.6 | 13.4 | 16.9 |
| ORC 8502 | 16.0 | 14.1 | 16.2 | 14.6 | 12.6 | 16.2 |
| ORC 8601 | 15.0 | 15.1 | 15.7 | 12.9 | 11.5 | 15.7 |
| ORC 8706 | 13.5 | 11.1 | 14.7 | 11.7 | 10.3 | 14.0 |
| Hoyt (dt) | 14.3 | 13.3 | 13.6 | 11.5 | 11.2 | 14.7 |
| A87D16 | 13.7 | 11.9 | 12.9 | 12.5 | 11.0 | 13.1 |
| C1749 | 13.5 | 11.8 | 14.7 | 12.4 | 9.7 | 14.6 |
| HC84-180 (dt) | 14.0 | 12.9 | 15.6 | 10.9 | 10.2 | 14.4 |
| HC84-1060 (dt) | 14.1 | 14.2 | 15.0 | 12.9 | 11.2 | 14.1 |
| HC84-1113-5 (dt) | 15.3 | 15.4 | 16.0 | 11.1 | 11.4 | 15.4 |
| HC84-2001 (dt) | 15.3 | 15.2 | 16.4 | 9.8 | 10.8 | 15.3 |
| HC84-6420 (dt) | 14.8 | 13.6 | 15.1 | 10.2 | 12.1 | 16.6 |
| HC85-6219 (dt) | 14.3 | 13.3 | 15.0 | 11.9 | 11.0 | 15.4 |
| HC85-6409 (dt) | 14.3 | 12.8 | 14.5 | 9.5 | 11.1 | 16.4 |

## UNIFORM PRELIMINARY TEST IIB, 1988

### SEED SIZE (g\100)

| Mead NE | Adelphia NJ | Hoytville OH | Ridge-town Ont. | Center-ville SD | Arling-ton WI |
|---|---|---|---|---|---|
| 15.0 | 16.0 | 13.0 | 16.4 | 16.8 | 13.7 |
| 18.7 | 15.0 | 13.7 | 15.6 | 17.5 | 10.9 |
| 19.9 | 20.0 | 13.4 | 19.9 | 20.9 | 17.5 |
| 14.9 | 17.0 | 13.4 | 17.3 | 17.6 | 12.8 |
| 15.8 | 17.5 | 14.1 | 17.4 | 15.6 | 14.6 |
| 17.8 | 19.0 | 16.0 | 18.2 | 18.7 | 15.8 |
| 18.0 | 19.0 | 14.9 | 18.6 | 20.0 | 14.0 |
| 20.8 | 19.5 | 14.6 | 18.6 | 21.7 | 13.6 |
| 16.7 | 17.5 | 13.8 | 16.4 | 17.8 | 13.8 |
| 17.4 | 16.5 | 13.9 | 16.6 | 18.1 | 14.1 |
| 16.0 | 17.0 | 14.2 | 16.4 | 18.5 | 11.7 |
| 19.4 | 22.5 | 16.9 | 18.3 | 19.7 | 15.6 |
| 18.0 | 17.5 | 14.4 | 16.1 | 19.5 | 14.7 |
| 17.0 | 16.0 | 12.9 | 15.2 | 18.9 | 14.5 |
| 17.7 | 17.0 | 14.0 | 16.7 | 21.0 | 14.7 |
| 17.3 | 17.0 | 14.6 | 16.9 | 20.0 | 13.9 |
| 15.1 | 17.0 | 12.9 | 17.1 | 17.6 | 13.7 |
| 17.1 | 16.0 | 12.1 | 16.3 | 17.4 | 15.1 |
| 16.8 | 16.5 | 14.5 | 17.0 | 19.4 | 12.0 |
| 17.9 | 18.0 | 14.3 | 18.3 | 21.8 | 16.4 |
| 16.9 | 16.0 | 13.3 | 16.6 | 20.5 | 12.0 |
| 15.2 | 15.5 | 12.4 | 15.0 | 17.9 | 12.3 |
| 15.3 | 15.0 | 10.5 | 14.5 | 18.6 | 12.6 |
| 18.5 | 15.0 | 12.5 | 14.6 | 18.9 | 13.0 |
| 16.4 | 16.5 | 13.5 | 14.9 | 18.8 | 13.5 |
| 19.6 | 17.5 | 14.0 | 17.8 | 20.5 | 14.6 |
| 18.7 | 18.0 | 14.4 | 17.7 | 19.3 | 13.9 |
| 20.3 | 16.0 | 11.0 | 16.5 | 17.7 | 12.7 |
| 15.3 | 15.0 | 13.1 | 14.9 | 16.0 | 12.8 |
| 17.8 | 15.5 | 13.8 | 15.0 | 18.4 | 12.3 |
| 17.9 | 15.0 | 14.4 | 14.6 | 15.7 | 11.9 |
| 14.3 | 16.0 | 11.9 | 15.8 | 14.6 | 12.3 |
| 16.1 | 16.0 | 13.8 | 17.3 | 15.1 | 11.3 |
| 17.6 | 16.0 | 12.6 | 14.6 | 15.7 | 11.5 |
| 18.6 | 16.0 | 14.7 | 16.2 | 20.8 | 12.8 |
| 21.7 | 17.5 | 14.3 | 16.6 | 18.5 | 12.3 |
| 17.8 | 18.0 | 13.6 | 17.8 | 15.6 | 12.8 |
| 17.4 | 18.0 | 12.4 | 16.2 | 15.5 | 11.7 |
| 17.1 | 17.0 | 16.4 | 17.2 | 13.1 | 12.3 |

## UNIFORM PRELIMINARY TEST IIB, 1988

### PROTEIN (%)

| Strain | Mean 5 Tests | Ames IA | Urbana IL | Lafayette IN | Mead NE | Hoytville OH |
|---|---|---|---|---|---|---|
| Elgin 87 (II) | 39.6 | 38.0 | 40.7 | 41.5 | 38.2 | 39.6 |
| Hardin (I) | 39.9 | 39.2 | 39.4 | 42.6 | 39.8 | 38.3 |
| Zane (III) | 41.3 | 39.6 | 44.0 | 43.5 | 40.2 | 39.2 |
| A87D10 | 42.2 | 40.2 | 43.3 | 44.2 | 41.6 | 41.8 |
| A87D20 | 40.4 | 39.6 | 41.1 | 42.8 | 38.2 | 40.3 |
| C1731 | 41.9 | 41.2 | 42.9 | 44.9 | 41.6 | 38.8 |
| C1732 | 43.3 | 41.8 | 45.1 | 45.1 | 42.5 | 42.0 |
| C1733 | 42.2 | 39.0 | 45.1 | 43.5 | 41.1 | 42.4 |
| C1734 | 43.1 | 41.0 | 43.7 | 45.0 | 42.9 | 42.8 |
| C1735 | 40.8 | 39.4 | 42.0 | 42.7 | 40.6 | 39.5 |
| C1736 | 41.1 | 39.9 | 42.1 | 42.9 | 39.9 | 40.7 |
| C1753 | 41.8 | 41.4 | 43.5 | 42.2 | 40.3 | 41.5 |
| E86067 | 41.3 | 39.1 | 41.8 | 43.2 | 40.9 | 41.6 |
| E86130 | 39.4 | 39.1 | 40.1 | 42.3 | 38.4 | 36.9 |
| E86315 | 40.9 | 38.7 | 42.1 | 44.2 | 40.5 | 39.1 |
| E86325 | 40.0 | 39.7 | 41.0 | 42.5 | 39.0 | 37.6 |
| E86328 | 39.5 | 38.9 | 40.7 | 42.2 | 38.5 | 37.1 |
| E86339 | 39.8 | 37.5 | 40.8 | 42.3 | 39.8 | 38.7 |
| E86348 | 40.3 | 36.9 | 41.7 | 42.9 | 39.6 | 40.2 |
| E86359 | 40.5 | 39.7 | 40.7 | 42.9 | 39.6 | 39.4 |
| E86368 | 40.5 | 39.2 | 42.1 | 41.2 | 40.4 | 39.8 |
| HM8734 | 40.0 | 38.8 | 42.1 | 42.8 | 39.1 | 37.1 |
| HM8735 | 40.7 | 40.0 | 41.5 | 43.0 | 39.3 | 39.5 |
| HM8842 | 41.7 | 39.9 | 42.5 | 43.4 | 42.5 | 40.4 |
| HM8844 | 41.1 | 40.3 | 42.0 | 42.6 | 40.8 | 39.8 |
| M84-1005 | 38.5 | 37.6 | 39.3 | 41.3 | 37.6 | 36.8 |
| ORC 8502 | 40.6 | 39.6 | 39.9 | 43.0 | 39.7 | 40.6 |
| ORC 8601 | 40.5 | 39.0 | 41.5 | 42.6 | 41.0 | 38.3 |
| ORC 8706 | 39.6 | 38.6 | 38.4 | 42.8 | 39.3 | 38.9 |
| Hoyt (dt) | 40.9 | 39.9 | 41.3 | 42.9 | 41.1 | 39.2 |
| A87D16 | 39.9 | 39.1 | 39.6 | 42.1 | 39.8 | 38.9 |
| C1749 | 39.9 | 38.7 | 40.2 | 41.8 | 39.0 | 39.9 |
| HC84-180 (dt) | 40.4 | 37.8 | 42.2 | 42.2 | 38.7 | 41.0 |
| HC84-1060 (dt) | 39.5 | 37.0 | 40.3 | 41.7 | 40.6 | 38.1 |
| HC84-1113-5 (dt) | 39.0 | 37.2 | 41.9 | 40.3 | 37.7 | 37.9 |
| HC84-2001 (dt) | 41.2 | 39.4 | 43.3 | 43.3 | 40.8 | 39.3 |
| HC84-6420 (dt) | 42.3 | 42.1 | 44.9 | 44.1 | 41.0 | 39.3 |
| HC85-6219 (dt) | 42.4 | 41.9 | 42.7 | 44.1 | 41.5 | 41.8 |
| HC85-6409 (dt) | 42.1 | 41.3 | 44.0 | 43.8 | 41.7 | 39.7 |

## UNIFORM PRELIMINARY TEST IIB, 1988

### OIL (%)

| Strain | Mean 5 Tests | Ames IA | Urbana IL | Lafayette IN | Mead NE | Hoytville OH |
|---|---|---|---|---|---|---|
| Elgin 87 (II) | 21.6 | 21.8 | 21.0 | 21.6 | 22.5 | 21.3 |
| Hardin (I) | 22.4 | 21.9 | 22.8 | 22.9 | 22.9 | 21.5 |
| Zane (III) | 21.2 | 21.5 | 19.5 | 20.9 | 21.4 | 22.7 |
| A87D10 | 20.8 | 21.9 | 20.6 | 20.9 | 20.7 | 19.8 |
| A87D20 | 21.5 | 21.6 | 21.0 | 21.5 | 22.3 | 21.0 |
| C1731 | 20.7 | 21.6 | 19.8 | 19.9 | 20.9 | 21.2 |
| C1732 | 19.6 | 20.0 | 18.4 | 19.0 | 19.7 | 20.7 |
| C1733 | 20.6 | 22.3 | 18.4 | 21.1 | 21.4 | 19.8 |
| C1734 | 19.9 | 20.7 | 18.9 | 20.2 | 19.8 | 20.0 |
| C1735 | 21.1 | 21.5 | 20.8 | 21.0 | 20.8 | 21.5 |
| C1736 | 20.7 | 21.4 | 20.5 | 20.4 | 21.2 | 20.0 |
| C1753 | 19.9 | 19.8 | 19.2 | 19.9 | 21.1 | 19.3 |
| E86067 | 21.0 | 21.3 | 20.8 | 21.1 | 21.3 | 20.6 |
| E86130 | 22.4 | 21.8 | 22.5 | 21.7 | 23.1 | 23.0 |
| E86315 | 21.3 | 22.0 | 20.5 | 21.0 | 21.7 | 21.4 |
| E86325 | 22.1 | 21.9 | 21.8 | 21.4 | 22.4 | 22.8 |
| E86328 | 20.9 | 21.6 | 19.4 | 20.5 | 21.6 | 21.5 |
| E86339 | 21.9 | 23.6 | 21.2 | 20.9 | 21.9 | 21.9 |
| E86348 | 21.1 | 22.4 | 20.5 | 20.8 | 21.1 | 20.8 |
| E86359 | 21.2 | 21.4 | 20.5 | 20.6 | 22.3 | 21.4 |
| E86368 | 21.7 | 22.1 | 20.9 | 21.5 | 22.6 | 21.6 |
| HM8734 | 20.9 | 21.3 | 19.8 | 20.0 | 21.9 | 21.7 |
| HM8735 | 21.2 | 22.0 | 20.2 | 20.5 | 22.1 | 21.2 |
| HM8842 | 20.9 | 22.1 | 20.2 | 20.3 | 20.5 | 21.5 |
| HM8844 | 21.0 | 20.3 | 20.7 | 20.9 | 21.7 | 21.4 |
| M84-1005 | 23.1 | 23.0 | 22.6 | 21.9 | 24.5 | 23.5 |
| ORC 8502 | 22.5 | 22.5 | 22.6 | 22.7 | 23.5 | 21.0 |
| ORC 8601 | 22.1 | 22.1 | 21.9 | 21.2 | 22.3 | 22.8 |
| ORC 8706 | 21.9 | 22.9 | 23.2 | 20.7 | 22.0 | 20.6 |
| Hoyt (dt) | 22.1 | 24.0 | 21.6 | 21.3 | 21.5 | 22.1 |
| A87D16 | 21.6 | 21.5 | 22.4 | 20.4 | 21.7 | 21.8 |
| C1749 | 21.0 | 21.5 | 20.9 | 19.7 | 21.8 | 21.0 |
| HC84-180 (dt) | 22.2 | 23.4 | 21.2 | 21.0 | 23.9 | 21.3 |
| HC84-1060 (dt) | 21.7 | 23.1 | 21.7 | 20.4 | 21.6 | 21.8 |
| HC84-1113-5 (dt) | 22.0 | 23.3 | 19.6 | 21.3 | 23.0 | 22.6 |
| HC84-2001 (dt) | 21.2 | 22.2 | 18.9 | 20.0 | 22.1 | 22.9 |
| HC84-6420 (dt) | 20.3 | 20.3 | 18.5 | 19.4 | 21.8 | 21.5 |
| HC85-6219 (dt) | 19.1 | 18.9 | 19.0 | 18.4 | 19.6 | 19.6 |
| HC85-6409 (dt) | 20.0 | 20.4 | 18.6 | 18.6 | 21.1 | 21.2 |

## UNIFORM TEST III, 1988

| Strain | Parentage | Previous* Testing | Generation Composited | Unique Traits |
|---|---|---|---|---|
| Cartter (SCN) | Williams (2) x PI 88.788 | UTIII(84) | F6 | SCN 3,4 |
| Dunfield | Selection from PI 36.846 | 1 | - | |
| Flyer (IV) | Asgrow A3127 (4) x Williams 82 | 2 | BC3 F2 | Rps1-k |
| Resnik (III) | Asgrow A3127 (4) x Williams 82 | 2 | BC3 F3 | Rps1-k |
| Hobbit 87 (dt) | Hobbit (6) x Williams 82 | 2 | BC5 F3 | Rps1-k |
| A86-301024 | A81-356022 x Hack | PTIIIA | F5 | |
| A86-303014 | A81-356022 x Hack | PTIIIA | F5 | |
| C1717 | HW79015 x Cumberland | PTIIIB | F5 | |
| C1720 | HW79015 x A79-334010 | PTIIIB | F6 | |
| HC81-1511 (dt) | L74D-634 x Hobbit | PTIIIB | F5 | |
| HC82-4965 (dt) | L74D-634 x Hobbit | PTIIB | F5 | |
| HC83-4532 (dt) | L74D-634 x Hobbit | 1 | F5 | |
| HC83-4589 (dt) | L74D-634 x Hobbit | 1 | F5 | |
| HC84-553-1 (dt) | Hobbit x K74-104-76-205 | PTIIB | F5 | |
| HM8597 | HW79116 x HW79022 | PTIIIB | F6 | |
| HM8625 | A79-236002 (2) x HW79149 | PTIIB | BC2 F3 | |
| HM8632 | Zane (3) x HW79149 | PTIIB | BC2 F3 | |
| HM8636 | Zane (3) x HW79149 | PTIIIB | BC2 F3 | |
| L82-4050 | L71-3628 x Elf | PTIIIB | F8 | |
| L83-3819 | L78-8694 x L78L-449 | 1 | F6 | |
| L83-3942 | L78-8694 x L78L-688 | PTIIIB | F6 | |
| L83-7573 | L73-4673 x L78-4094 | 1 | F5 | |
| L84-6189 | Williams 82 x L78-4245 | PTIIIB | F5 | BSR Resis |
| LN84-4332 | HW79149 x Harper | PTIIIA | F5 | |
| LN84-7577 | Hack x HW79015 | PTIIIA | F5 | |
| LN84-15336 | LN80-9447 x Asgrow A3127 | PTIIIA | F5 | |
| LN84-18266 | LN80-9452 x Asgrow A3127 | PTIIIA | F5 | ~~Rps1~~ |
| LN84-19560 | LN80-9479 x Asgrow A3127 | PTIIA | F5 | |
| Md83-2048 | BSR 301 x Essex | 1 | F6 | |

* Number of years in test or name of 1987 test.

## UNIFORM TEST III, 1988

### DESCRIPTIVE DATA

| Strain | Descriptive Code | Chlorosis Score | | Emerg. Score | Shattering Score | | |
|---|---|---|---|---|---|---|---|
| | | Ames | Lamber-ton | Ames | Eldor-ado | Man-hattan | Lubbock |
| Cartter (SCN) | WTTSYBl | 3.5 | 3.3 | 5.0 | 1.0 | 2.0 | 4.0 |
| Dunfield | WGTSYBf | 3.2 | 3.8 | 5.0 | 2.0 | 2.0 | 3.7 |
| Flyer (IV) | PTTSYBl | 3.6 | 3.8 | 1.0 | 1.0 | 1.0 | 2.7 |
| Resnik (III) | PTTSYBl | 3.9 | 4.0 | 1.0 | 1.0 | 1.0 | 3.5 |
| Hobbit 87 (dt) | WTTSYBl | 3.6 | 4.0 | 2.0 | 1.0 | 1.0 | 2.3 |
| A86-301024 | PGBSYIb | 3.5 | 3.5 | 4.0 | 1.0 | 2.0 | 3.5 |
| A86-303014 | PTTSYBl | 3.6 | 4.5 | 2.0 | 1.0 | 2.0 | 2.7 |
| C1717 | PGBSYIb | 3.6 | 3.9 | 5.0 | 1.0 | 1.0 | 4.0 |
| C1720 | PGBDYIb | 3.9 | 3.3 | 5.0 | 1.0 | 2.0 | 5.0 |
| HC81-1511 (dt) | WTBSYBl | 3.9 | 4.5 | 3.0 | 1.0 | 1.0 | 3.7 |
| HC82-4965 (dt) | WTBSYBl | 3.5 | 5.0 | 3.0 | 1.0 | 1.0 | 3.2 |
| HC83-4532 (dt) | WTTSYBl | 2.9 | 3.5 | 1.0 | 1.0 | 1.0 | 2.8 |
| HC83-4589 (dt) | WTTSYBl | 4.2 | 4.0 | 2.0 | 1.0 | 1.0 | 2.5 |
| HC84-553-1 (dt) | PTBSYBl | 3.9 | 3.8 | 5.0 | 1.0 | 1.0 | 2.0 |
| HM8597 | PTTDYBl | 4.0 | 4.3 | 1.0 | 1.0 | 1.0 | 2.5 |
| HM8625 | PGBSYIb | 3.8 | 4.5 | 5.0 | 1.0 | 2.0 | 3.5 |
| HM8632 | PGBSYIb | 3.8 | 4.8 | 2.0 | 1.0 | 2.0 | 3.7 |
| HM8636 | PGBSYIb | 3.6 | 3.3 | 3.0 | 1.0 | 2.0 | 4.5 |
| L82-4050 | PTBDYBr | 2.8 | 3.5 | 3.0 | 1.0 | 2.0 | 4.0 |
| L83-3819 | PGTDDYIb | 4.0 | 3.5 | 2.0 | 1.0 | 1.0 | 3.8 |
| L83-3942 | PTTSYBl | 3.4 | 3.0 | 2.0 | 1.0 | 2.0 | 5.0 |
| L83-7573 | PGTDYY | 4.2 | 4.3 | 3.0 | 1.0 | 2.0 | 4.5 |
| L84-6189 | WTTDYBl | 3.6 | 4.0 | 2.0 | 1.0 | 2.0 | 4.3 |
| LN84-4332 | PGBSYIb | 4.5 | 4.8 | 5.0 | 1.7 | 3.0 | 4.7 |
| LN84-7577 | PGBSYIb | 4.1 | 3.8 | 5.0 | 1.0 | 1.0 | 4.7 |
| LN84-15336 | WTTDYBl | 4.2 | 4.5 | 2.0 | 1.0 | 1.0 | 3.7 |
| LN84-18266 | PTBDYBl | 3.8 | 4.5 | 2.0 | 1.0 | 1.0 | 3.5 |
| LN84-19560 | WTTDTBl | 3.8 | 4.5 | 1.0 | 1.0 | 1.0 | 2.5 |
| Md83-2048 | PTTDYBl | 4.0 | 4.8 | 2.0 | 1.0 | 1.0 | 2.3 |

## UNIFORM TEST III, 1988

### DISEASE DATA

| Strain | Mottl. Score Eldor-ado | BTS Ames a Score | BSR-Ames Plant n % | BSR-Ames Stem n % | PR Ames Race 4 Reaction | PR Castalia Phyo. Tol. | PR Urbana-Laf. Race 1 | PR Urbana-Laf. Race 7 | PS Lafayette a rt | PSB Lafayette n % | SMV Lafayette a score |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Cartter (SCN) | 3.0 | 3 | 90 | 29.5 | S | 3.8 | S | S | | | |
| Dunfield | 1.0 | 3 | 100 | 41.4 | S | 4.7 | R | H | | | |
| Flyer (IV) | 2.2 | 3 | 100 | 62.9 | H | 3.5 | H | H | | | |
| Resnik (III) | 2.0 | 3 | 90 | 38.6 | R | 3.7 | R | R | | | |
| Hobbit 87 (dt) | 2.3 | 3 | 100 | 60.0 | H | 4.5 | R | R | | | |
| A86-301024 | 1.7 | 3 | 90 | 48.5 | S | 6.0 | R | H | | | |
| A86-303014 | 3.2 | 3 | 90 | 59.5 | S | 5.0 | R | S | | | |
| C1717 | 1.7 | 3 | 100 | 61.1 | S | 4.0 | S | S | | | |
| C1720 | 1.7 | 3 | 100 | 64.1 | S | 4.0 | S | S | | | |
| HC81-1511 (dt) | 2.0 | 3 | 100 | 29.5 | S | 5.0 | S | S | | | |
| HC82-4965 (dt) | 2.0 | 3 | 100 | 76.5 | S | 5.7 | S | S | | | |
| HC83-4532 (dt) | 2.0 | 3 | 90 | 53.0 | S | 4.5 | S | S | | | |
| HC83-4589 (dt) | 2.0 | 3 | 100 | 86.5 | S | 5.0 | S | S | | | |
| HC84-553-1 (dt) | 2.0 | 3 | 100 | 88.3 | R | 4.7 | R | R | | | |
| HM8597 | 1.7 | 3 | 100 | 58.8 | R | 4.3 | R | R | | | |
| HM8625 | 2.0 | 3 | 90 | 44.9 | R | 5.3 | R | H | | | |
| HM8632 | 3.8 | 3 | 100 | 37.1 | R | 5.7 | R | S | | | |
| HM8636 | 5.0 | 3 | 100 | 38.4 | R | 4.3 | R | S | | | |
| L82-4050 | 2.2 | 3 | 100 | 69.4 | S | 6.0 | S | S | | | |
| L83-3819 | 1.7 | 3 | 100 | 52.1 | S | 5.3 | S | S | | | |
| L83-3942 | 2.0 | 3 | 90 | 58.0 | S | 5.5 | S | S | | | |
| L83-7573 | 3.8 | 3 | 90 | 19.4 | S | 4.0 | S | S | | | |
| L84-6189 | 2.5 | 3 | 90 | 26.6 | R | 4.0 | R | R | | | |
| LN84-4332 | 1.0 | 3 | 100 | 73.9 | H | 3.5 | R | R | | | |
| LN84-7577 | 1.7 | 3 | 100 | 51.9 | S | 5.5 | S | S | | | |
| LN84-15336 | 2.3 | 3 | 100 | 45.4 | S | 4.0 | S | S | | | |
| LN84-18266 | 2.0 | 3 | 100 | 45.9 | S | 4.0 | S | S | | | |
| LN84-19560 | 2.0 | 3 | 90 | 55.1 | S | 7.0 | S | S | | | |
| Md83-2048 | 2.3 | 4 | 90 | 45.4 | S | 4.0 | S | S | | | |

# UNIFORM TEST III, 1988

## REGIONAL SUMMARY

| | Yield | Rank | Maturity | Lodging | Plant Height | Seed Quality | Seed Size | Composition Protein | Composition Oil |
|---|---|---|---|---|---|---|---|---|---|
| No. of Tests | 23 | 23 | 19 | 23 | 22 | 21 | 22 | 5 | 5 |
| Strain | bu/a | No. | Date | Score | In. | Score | g/100 | % | % |
| Cartter (SCN) | 40.2 | 20 | -2.5 | 1.6 | 35 | 2.1 | 15.8 | 40.9 | 22.0 |
| Dunfield | 28.8 | 29 | -6.0 | 2.5 | 38 | 3.1 | 14.5 | 39.9 | 21.9 |
| Flyer (IV) | 42.2 | 7 | 4.3 | 1.3 | 34 | 1.7 | 13.4 | 41.9 | 20.4 |
| Resnik (III) | 42.7 | 5 | 09/20.5* | 1.3 | 32 | 1.7 | 13.6 | 41.8 | 20.9 |
| Hobbit 87 (dt) | 39.8 | 24 | 0.7 | 1.1 | 22 | 1.6 | 14.7 | 38.1 | 23.3 |
| A86-301024 | 43.2 | 3 | -0.8 | 1.2 | 32 | 2.1 | 16.6 | 40.0 | 21.1 |
| A86-303014 | 44.3 | 1 | 0.9 | 1.4 | 33 | 2.3 | 16.8 | 41.0 | 20.9 |
| C1717 | 41.3 | 11 | 0.4 | 1.4 | 36 | 2.1 | 13.9 | 38.9 | 22.5 |
| C1720 | 41.9 | 9 | -0.5 | 1.5 | 34 | 2.3 | 15.6 | 40.5 | 21.1 |
| HC81-1511 (dt) | 35.6 | 27 | 1.2 | 1.1 | 21 | 1.8 | 17.0 | 40.8 | 22.4 |
| HC82-4965 (dt) | 35.3 | 28 | -2.9 | 1.1 | 21 | 1.9 | 16.5 | 41.0 | 22.3 |
| HC83-4532 (dt) | 40.9 | 13 | 0.2 | 1.2 | 22 | 1.8 | 16.0 | 40.1 | 22.5 |
| HC83-4589 (dt) | 40.1 | 22 | 3.8 | 1.2 | 23 | 1.6 | 15.6 | 40.4 | 22.0 |
| HC84-553-1 (dt) | 38.9 | 25 | -1.1 | 1.2 | 23 | 1.7 | 14.9 | 40.9 | 22.4 |
| HM8597 | 43.8 | 2 | 3.1 | 1.3 | 33 | 1.8 | 13.1 | 40.6 | 21.1 |
| HM8625 | 38.9 | 25 | -5.1 | 1.3 | 33 | 2.4 | 17.5 | 41.3 | 21.9 |
| HM8632 | 42.0 | 8 | -3.9 | 1.4 | 33 | 2.7 | 17.2 | 41.2 | 21.6 |
| HM8636 | 41.5 | 10 | -1.8 | 1.4 | 34 | 2.9 | 17.4 | 40.5 | 22.2 |
| L82-4050 | 40.8 | 15 | 0.2 | 1.4 | 26 | 2.2 | 17.1 | 39.0 | 22.1 |
| L83-3819 | 40.4 | 18 | 3.4 | 1.8 | 35 | 1.8 | 15.0 | 40.0 | 20.3 |
| L83-3942 | 40.3 | 19 | 1.8 | 1.8 | 34 | 2.0 | 16.5 | 40.3 | 21.5 |
| L83-7573 | 40.2 | 20 | -0.6 | 1.5 | 34 | 2.2 | 14.0 | 40.1 | 20.4 |
| L84-6189 | 40.1 | 22 | 2.5 | 1.6 | 37 | 2.3 | 16.6 | 42.0 | 20.9 |
| LN84-4332 | 40.8 | 15 | -2.1 | 1.3 | 32 | 2.4 | 16.1 | 40.3 | 22.2 |
| LN84-7577 | 41.3 | 11 | -0.2 | 1.1 | 27 | 2.2 | 15.6 | 40.8 | 22.0 |
| LN84-15336 | 40.9 | 13 | -3.4 | 1.3 | 33 | 2.0 | 13.5 | 41.1 | 21.1 |
| LN84-18266 | 42.5 | 6 | -2.3 | 1.5 | 32 | 1.8 | 14.3 | 39.8 | 22.1 |
| LN84-19560 | 40.6 | 17 | -2.0 | 1.4 | 33 | 2.3 | 15.3 | 41.3 | 21.6 |
| Md83-2048 | 43.0 | 4 | 4.2 | 1.3 | 36 | 2.2 | 13.9 | 40.0 | 21.5 |

* 128.4 Days after planting

## UNIFORM TEST III, 1988

### 1987-1988 2-YEAR MEAN

| | Yield | Rank | Maturity | Lodging | Plant Height | Seed Quality | Seed Size | Composition Protein | Composition Oil |
|---|---|---|---|---|---|---|---|---|---|
| No. of Tests | 45 | 45 | 38 | 45 | 44 | 39 | 41 | 10 | 10 |
| Strain | bu/a | No. | Date | Score | In. | Score | g/100 | % | % |
| Dunfield | 30.9 | 9 | -5.8 | 2.7 | 37 | 2.9 | 14.7 | 39.3 | 21.9 |
| Flyer (IV) | 46.4 | 2 | 5.8 | 1.4 | 36 | 1.7 | 13.2 | 41.1 | 20.7 |
| Resnik (III) | 46.4 | 2 | 09/17.5* | 1.3 | 33 | 1.6 | 13.6 | 40.9 | 21.3 |
| Hobbit 87 (dt) | 42.6 | 6 | 1.2 | 1.2 | 22 | 1.6 | 14.4 | 37.9 | 23.0 |
| HC83-4532 | 42.6 | 6 | 0.2 | 1.2 | 22 | 1.8 | 15.9 | 39.1 | 22.6 |
| HC83-4589 | 41.8 | 8 | 3.6 | 1.2 | 23 | 1.7 | 15.4 | 40.1 | 22.0 |
| L83-3819 | 43.3 | 5 | 4.2 | 1.7 | 33 | 1.8 | 15.2 | 40.0 | 20.3 |
| L83-7573 | 44.1 | 4 | 0.1 | 1.6 | 35 | 2.0 | 14.0 | 39.7 | 20.4 |
| Md83-2048 | 46.5 | 1 | 4.6 | 1.4 | 37 | 2.0 | 13.6 | 39.4 | 21.8 |

* 126.7 Days after Planting

## UNIFORM TEST III, 1988

### YIELD (bu/a)

| Strain | Mean 23 Tests | George-town DE | Middle-town DE | Packwood IA | Stuart IA | Tingley IA | Eldorado IL | Urbana IL |
|---|---|---|---|---|---|---|---|---|
| Cartter (SCN) | 40.2 | | | 32.1 | 27.7 | 32.0 | 47.8 | 40.0 |
| Dunfield | 28.8 | | | 23.2 | 21.5 | 26.3 | 32.7 | 24.3 |
| Flyer (IV) | 42.2 | | | 32.6 | 34.7 | 31.2 | 44.1 | 39.8 |
| Resnik (III) | 42.7 | | | 32.4 | 32.0 | 31.5 | 42.6 | 39.8 |
| Hobbit 87 (dt) | 39.8 | | | 32.6 | 28.8 | 32.6 | 39.4 | 38.8 |
| A86-301024 | 43.2 | | | 30.4 | 32.3 | 32.8 | 41.2 | 44.6 |
| A86-303014 | 44.3 | | | 35.7 | 34.8 | 33.4 | 36.6 | 38.0 |
| C1717 | 41.3 | | | 32.8 | 29.5 | 31.4 | 34.1 | 35.7 |
| C1720 | 41.9 | | | 35.9 | 32.7 | 33.5 | 40.7 | 26.8 |
| HC81-1511 (dt) | 35.6 | | | 34.3 | 31.3 | 29.0 | 37.0 | 30.7 |
| HC82-4965 (dt) | 35.3 | | | 31.2 | 24.7 | 31.8 | 38.5 | 31.4 |
| HC83-4532 (dt) | 40.9 | | | 36.8 | 31.3 | 34.3 | 43.3 | 39.0 |
| HC83-4589 (dt) | 40.1 | | | 34.6 | 34.8 | 32.0 | 38.7 | 29.4 |
| HC84-553-1 (dt) | 38.9 | | | 35.1 | 28.8 | 31.3 | 42.1 | 37.4 |
| HM8597 | 43.8 | | | 31.6 | 37.7 | 35.5 | 42.7 | 34.8 |
| HM8625 | 38.9 | | | 32.0 | 26.8 | 35.2 | 34.5 | 31.6 |
| HM8632 | 42.0 | | | 32.2 | 28.6 | 30.6 | 38.6 | 27.7 |
| HM8636 | 41.5 | | | 30.7 | 32.6 | 30.3 | 39.8 | 31.2 |
| L82-4050 | 40.8 | | | 37.6 | 28.4 | 32.7 | 38.9 | 38.1 |
| L83-3819 | 40.4 | | | 28.2 | 32.6 | 29.7 | 43.4 | 28.8 |
| L83-3942 | 40.3 | | | 31.8 | 27.2 | 26.9 | 41.7 | 33.5 |
| L83-7573 | 40.2 | | | 30.5 | 31.7 | 30.6 | 35.0 | 40.7 |
| L84-6189 | 40.1 | | | 32.9 | 32.0 | 31.1 | 34.4 | 38.3 |
| LN84-4332 | 40.8 | | | 32.3 | 31.4 | 33.6 | 38.8 | 32.1 |
| LN84-7577 | 41.3 | | | 30.0 | 36.1 | 37.3 | 39.7 | 38.7 |
| LN84-15336 | 40.9 | | | 31.7 | 29.0 | 35.3 | 40.9 | 39.4 |
| LN84-18266 | 42.5 | | | 35.9 | 27.2 | 33.9 | 43.1 | 38.4 |
| LN84-19560 | 40.6 | | | 35.4 | 25.1 | 34.6 | 39.6 | 38.2 |
| Md83-2048 | 43.0 | | | 29.4 | 34.9 | 30.3 | 38.1 | 45.9 |
| C.V. (%) | | | | 9.1 | 10.3 | 7.7 | 8.9 | 29.0 |
| L.S.D. (5%) | | | | 4.6 | 4.8 | 3.9 | 5.7 | ns |
| Row Sp. (In.) | | | | 27 | 27 | 27 | 30 | 30 |
| Rows/Plot | | | | 4 | 4 | 4 | 4 | 4 |
| Reps | | | | 3 | 3 | 3 | 3 | 3 |

## UNIFORM TEST III, 1988

### YIELD (bu/a)

| Strain | Bluff-ton IN | Lafay-ette IN | Vince-nnes IN | Man-hattan KS | Pow-hattan KS | Topeka KS | Lexing-ton KY | Queens-town MD | Colum-bia MO | Mead NE |
|---|---|---|---|---|---|---|---|---|---|---|
| Cartter (SCN) | 31.8 | 39.4 | 33.6 | 47.0 | 23.2 | 64.3 | 28.4 | 45.4 | - | 48.5 |
| Dunfield | 32.0 | 29.6 | 34.3 | 31.6 | 15.8 | 43.8 | 21.8 | 34.8 | 22.7 | 27.2 |
| Flyer (IV) | 20.4 | 34.3 | 34.6 | 51.8 | 23.9 | 70.7 | 30.5 | 50.6 | 36.2 | 47.4 |
| Resnik (III) | 27.5 | 39.2 | 34.1 | 59.1 | 27.1 | 74.0 | 30.0 | 47.2 | 40.5 | 52.8 |
| Hobbit 87 (dt) | 38.0 | 33.9 | 26.1 | 58.1 | 26.8 | 72.0 | 28.1 | 44.6 | 23.7 | 45.6 |
| A86-301024 | 35.7 | 42.3 | 29.7 | 57.5 | 24.5 | 76.5 | 26.7 | 43.4 | 36.2 | 51.2 |
| A86-303014 | 29.5 | 43.6 | 46.3 | 63.7 | 23.9 | 75.0 | 31.0 | 54.5 | 36.7 | 42.9 |
| C1717 | 43.3 | 41.3 | 36.4 | 56.4 | 21.0 | 72.1 | 25.8 | 48.4 | 33.4 | 46.7 |
| C1720 | 34.3 | 40.0 | 37.0 | 58.9 | 28.7 | 76.5 | 28.1 | 50.7 | 38.5 | 48.9 |
| HC81-1511 (dt) | 33.4 | 31.6 | 28.3 | 50.6 | 25.2 | 57.3 | 30.4 | 44.8 | 22.7 | 40.1 |
| HC82-4965 (dt) | 27.2 | 30.1 | 33.1 | 57.2 | 19.4 | 63.7 | 25.7 | 42.6 | 23.9 | 32.2 |
| HC83-4532 (dt) | 29.9 | 32.3 | 24.7 | 61.7 | 21.0 | 68.7 | 29.5 | 48.6 | 28.0 | 43.4 |
| HC83-4589 (dt) | 29.3 | 35.4 | 32.6 | 61.9 | 21.0 | 65.1 | 30.2 | 47.3 | 26.7 | 39.4 |
| HC84-553-1 (dt) | 27.5 | 33.4 | 33.1 | 56.9 | 24.5 | 68.6 | 27.3 | 45.4 | 26.0 | 35.0 |
| HM8597 | 33.7 | 41.2 | 36.1 | 60.2 | 23.9 | 70.6 | 29.3 | 51.3 | 40.5 | 49.5 |
| HM8625 | 23.2 | 38.1 | 23.6 | 54.7 | 22.9 | 73.8 | 28.6 | 46.6 | 31.1 | 43.2 |
| HM8632 | 38.7 | 34.5 | 34.4 | 63.6 | 24.2 | 71.3 | 29.1 | 52.4 | 34.1 | 48.9 |
| HM8636 | 45.6 | 35.2 | 33.9 | 57.7 | 22.3 | 69.3 | 28.7 | 51.1 | 35.2 | 48.2 |
| L82-4050 | 34.8 | 40.4 | 32.0 | 57.2 | 23.2 | 72.4 | 25.9 | 46.6 | 28.8 | 47.4 |
| L83-3819 | 38.4 | 40.4 | 33.7 | 60.9 | 23.2 | 67.7 | 27.6 | 48.5 | 38.7 | 43.9 |
| L83-3942 | 37.6 | 44.3 | 37.9 | 56.2 | 20.7 | 69.9 | 28.3 | 46.4 | 36.2 | 48.5 |
| L83-7573 | 44.0 | 38.1 | 29.7 | 55.4 | 19.7 | 67.1 | 24.8 | 49.6 | 30.1 | 44.8 |
| L84-6189 | 32.3 | 38.0 | 36.8 | 48.8 | 20.7 | 68.3 | 25.5 | 47.6 | 35.9 | 43.0 |
| LN84-4332 | 28.7 | 40.0 | 30.7 | 54.6 | 22.9 | 68.6 | 30.6 | 51.4 | 30.8 | 40.1 |
| LN84-7577 | 28.7 | 39.2 | 30.8 | 62.0 | 23.2 | 71.5 | 26.6 | 51.3 | 33.4 | 41.2 |
| LN84-15336 | 27.2 | 31.9 | 32.7 | 55.3 | 22.9 | 67.0 | 29.8 | 47.0 | 35.7 | 47.3 |
| LN84-18266 | 34.6 | 35.9 | 30.7 | 60.6 | 23.2 | 75.9 | 23.9 | 47.8 | 41.0 | 50.3 |
| LN84-19560 | 36.3 | 39.6 | 34.0 | 54.5 | 23.9 | 67.0 | 25.5 | 51.0 | 34.6 | 43.8 |
| Md83-2048 | 33.8 | 43.5 | 41.2 | 56.4 | 23.9 | 66.8 | 29.3 | 53.5 | 34.4 | 51.0 |
| C.V. (%) | 28.3 | 10.6 | 18.6 | 6.5 | 10.2 | 5.4 | 9.6 | 6.5 | 14.0 | 9.9 |
| L.S.D. (5%) | 15.3 | 6.6 | 10.1 | 6.0 | 3.9 | 6.1 | 2.8 | 5.2 | 7.7 | 7.2 |
| Row Sp. (In.) | 15 | 24 | 15 | 30 | 30 | 30 | 30 | 30 | 30 | 30 |
| Rows/Plot | 5 | 4 | 5 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Reps | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |

## UNIFORM TEST III, 1988

### YIELD (bu/a)

| Strain | Adel-phia NJ | Hoyt-ville OH | Ripley OH | So. Charl-eston OH | Wooster OH | Malden Ont. | Landis-ville PA | Elk Point SD |
|---|---|---|---|---|---|---|---|---|
| Cartter (SCN) | 47.4 | 33.0 | 36.0 | 55.6 | 38.7 | 50.9 | 48.5 | 32.6 |
| Dunfield | 33.2 | 23.2 | 23.4 | 45.3 | 17.3 | 35.7 | 39.3 | 23.0 |
| Flyer (IV) | 55.5 | 29.3 | 29.9 | 62.6 | 51.8 | 53.9 | 67.1 | 37.0 |
| Resnik (III) | 50.5 | 27.2 | 30.4 | 65.4 | 50.8 | 55.1 | 61.0 | 31.6 |
| Hobbit 87 (dt) | 46.3 | 33.1 | 27.1 | 68.2 | 28.7 | 54.6 | 56.7 | 30.7 |
| A86-301024 | 52.8 | 36.8 | 29.0 | 63.2 | 53.9 | 60.3 | 62.5 | 30.9 |
| A86-303014 | 54.0 | 32.6 | 27.5 | 60.7 | 60.0 | 56.9 | 64.5 | 37.3 |
| C1717 | 47.6 | 37.0 | 29.5 | 59.0 | 43.3 | 59.2 | 57.4 | 27.9 |
| C1720 | 45.4 | 32.1 | 29.0 | 61.7 | 32.0 | 55.0 | 61.7 | 36.6 |
| HC81-1511 (dt) | 47.1 | 36.8 | 26.2 | 58.9 | 21.9 | 52.9 | 26.3 | 22.2 |
| HC82-4965 (dt) | 43.8 | 31.1 | 33.1 | 60.7 | 18.8 | 52.7 | 40.3 | 19.6 |
| HC83-4532 (dt) | 49.2 | 33.4 | 37.7 | 65.8 | 33.4 | 55.4 | 62.4 | 31.3 |
| HC83-4589 (dt) | 51.2 | 33.4 | 34.7 | 65.7 | 39.4 | 52.1 | 54.1 | 33.0 |
| HC84-553-1 (dt) | 49.5 | 32.6 | 27.6 | 62.2 | 40.0 | 51.6 | 55.6 | 23.7 |
| HM8597 | 53.7 | 29.4 | 38.7 | 60.8 | 45.1 | 57.1 | 70.2 | 34.2 |
| HM8625 | 46.9 | 33.3 | 23.8 | 60.2 | 38.0 | 53.8 | 60.5 | 33.1 |
| HM8632 | 51.3 | 34.2 | 30.6 | 60.1 | 50.9 | 55.3 | 61.6 | 33.8 |
| HM8636 | 48.4 | 31.0 | 29.5 | 57.0 | 52.8 | 52.7 | 56.1 | 34.3 |
| L82-4050 | 47.6 | 33.1 | 17.0 | 64.1 | 48.4 | 49.3 | 62.7 | 32.5 |
| L83-3819 | 48.2 | 31.3 | 28.8 | 55.6 | 44.7 | 43.3 | 58.2 | 34.4 |
| L83-3942 | 47.6 | 27.7 | 28.1 | 57.3 | 45.3 | 47.4 | 57.9 | 28.5 |
| L83-7573 | 44.9 | 33.4 | 33.1 | 59.4 | 41.0 | 51.8 | 60.8 | 28.0 |
| L84-6189 | 50.6 | 32.2 | 30.2 | 59.0 | 49.9 | 53.1 | 54.6 | 26.1 |
| LN84-4332 | 49.7 | 33.2 | 27.2 | 58.2 | 48.6 | 54.6 | 67.3 | 33.5 |
| LN84-7577 | 50.2 | 31.1 | 26.6 | 63.1 | 30.0 | 57.5 | 64.4 | 36.4 |
| LN84-15336 | 48.0 | 30.0 | 28.7 | 58.8 | 43.9 | 57.5 | 64.3 | 36.9 |
| LN84-18266 | 51.7 | 34.5 | 24.2 | 59.7 | 49.7 | 56.0 | 63.8 | 35.1 |
| LN84-19560 | 49.7 | 33.0 | 26.2 | 59.6 | 35.5 | 52.0 | 59.8 | 35.9 |
| Md83-2048 | 54.4 | 29.3 | 27.1 | 63.4 | 49.2 | 51.7 | 67.9 | 34.3 |
| C.V. (%) | 14.2 | 5.7 | 20.3 | 5.3 | 15.7 | 7.5 | 9.9 | 11.7 |
| L.S.D. (5%) | 5.0 | 3.0 | ns | 5.2 | 11.0 | 6.5 | 9.4 | 6.0 |
| Row Sp. (In.) | 30 | 15 | 30 | 7 | 30 | 23.6 | 24 | 30 |
| Rows/Plot | 4 | 5 | 4 | 8 | 4 | 4 | 4 | 4 |
| Reps | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 3 |

## UNIFORM TEST III, 1988

### YIELD RANK

| Strain | Yield Rank | George-town DE | Middle-town DE | Packwood IA | Stuart IA | Tingley IA | Eldorado IL | Urbana IL |
|---|---|---|---|---|---|---|---|---|
| Cartter (SCN) | 20 | | | 17 | 23 | 14 | 1 | 4 |
| Dunfield | 29 | | | 29 | 29 | 29 | 29 | 29 |
| Flyer (IV) | 7 | | | 12 | 6 | 20 | 2 | 5 |
| Resnik (III) | 5 | | | 14 | 11 | 17 | 7 | 5 |
| Hobbit 87 (dt) | 24 | | | 12 | 19 | 13 | 16 | 9 |
| A86-301024 | 3 | | | 25 | 10 | 11 | 10 | 2 |
| A86-303014 | 1 | | | 5 | 4 | 10 | 24 | 15 |
| C1717 | 11 | | | 11 | 17 | 18 | 28 | 17 |
| C1720 | 9 | | | 3 | 7 | 9 | 12 | 28 |
| HC81-1511 (dt) | 27 | | | 9 | 15 | 27 | 23 | 24 |
| HC82-4965 (dt) | 28 | | | 22 | 28 | 16 | 21 | 22 |
| HC83-4532 (dt) | 13 | | | 2 | 15 | 6 | 4 | 8 |
| HC83-4589 (dt) | 22 | | | 8 | 4 | 14 | 19 | 25 |
| HC84-553-1 (dt) | 25 | | | 7 | 19 | 19 | 8 | 16 |
| HM8597 | 2 | | | 21 | 1 | 2 | 6 | 18 |
| HM8625 | 25 | | | 18 | 26 | 4 | 26 | 21 |
| HM8632 | 8 | | | 16 | 21 | 22 | 20 | 27 |
| HM8636 | 10 | | | 23 | 8 | 24 | 13 | 23 |
| L82-4050 | 15 | | | 1 | 22 | 12 | 17 | 14 |
| L83-3819 | 18 | | | 28 | 8 | 26 | 3 | 26 |
| L83-3942 | 19 | | | 19 | 24 | 28 | 9 | 19 |
| L83-7573 | 20 | | | 24 | 13 | 22 | 25 | 3 |
| L84-6189 | 22 | | | 10 | 11 | 21 | 27 | 12 |
| LN84-4332 | 15 | | | 15 | 14 | 8 | 18 | 20 |
| LN84-7577 | 11 | | | 26 | 2 | 1 | 14 | 10 |
| LN84-15336 | 13 | | | 20 | 18 | 3 | 11 | 7 |
| LN84-18266 | 6 | | | 3 | 24 | 7 | 5 | 11 |
| LN84-19560 | 17 | | | 6 | 27 | 5 | 15 | 13 |
| Md83-2048 | 4 | | | 27 | 3 | 24 | 22 | 1 |

## UNIFORM TEST III, 1988

### YIELD RANK

| Strain | Bluff-ton IN | Lafay-ette IN | Vince-nnes IN | Man-hattan KS | Pow-hattan KS | Topeka KS | Lexing-ton KY | Queens-town MD | Colum-bia MO | Mead NE |
|---|---|---|---|---|---|---|---|---|---|---|
| Cartter (SCN) | 18 | 12 | 15 | 28 | 13 | 26 | 14 | 23 | - | 8 |
| Dunfield | 17 | 29 | 10 | 29 | 29 | 29 | 29 | 29 | 27 | 29 |
| Flyer (IV) | 29 | 22 | 8 | 25 | 8 | 12 | 3 | 10 | 7 | 11 |
| Resnik (III) | 24 | 14 | 11 | 9 | 2 | 5 | 6 | 18 | 2 | 1 |
| Hobbit 87 (dt) | 6 | 23 | 27 | 11 | 3 | 9 | 16 | 26 | 26 | 15 |
| A86-301024 | 9 | 4 | 24 | 13 | 5 | 1 | 20 | 27 | 7 | 2 |
| A86-303014 | 20 | 2 | 1 | 1 | 8 | 4 | 1 | 1 | 6 | 22 |
| C1717 | 3 | 5 | 6 | 17 | 22 | 8 | 23 | 14 | 16 | 14 |
| C1720 | 12 | 10 | 4 | 10 | 1 | 1 | 16 | 9 | 5 | 6 |
| HC81-1511 (dt) | 15 | 27 | 26 | 26 | 4 | 28 | 4 | 25 | 27 | 24 |
| HC82-4965 (dt) | 27 | 28 | 16 | 14 | 28 | 27 | 24 | 28 | 25 | 28 |
| HC83-4532 (dt) | 19 | 25 | 28 | 5 | 22 | 16 | 8 | 12 | 22 | 19 |
| HC83-4589 (dt) | 21 | 19 | 19 | 4 | 22 | 25 | 5 | 17 | 23 | 26 |
| HC84-553-1 (dt) | 25 | 24 | 17 | 16 | 5 | 17 | 19 | 23 | 24 | 27 |
| HM8597 | 14 | 6 | 7 | 8 | 8 | 13 | 9 | 5 | 2 | 5 |
| HM8625 | 28 | 15 | 29 | 22 | 18 | 6 | 13 | 20 | 18 | 20 |
| HM8632 | 4 | 21 | 9 | 2 | 7 | 11 | 11 | 3 | 15 | 6 |
| HM8636 | 1 | 20 | 13 | 12 | 21 | 15 | 12 | 7 | 12 | 10 |
| L82-4050 | 10 | 7 | 20 | 14 | 13 | 7 | 22 | 20 | 21 | 11 |
| L83-3819 | 5 | 7 | 14 | 6 | 13 | 20 | 18 | 13 | 4 | 17 |
| L83-3942 | 7 | 1 | 3 | 19 | 25 | 14 | 15 | 22 | 7 | 8 |
| L83-7573 | 2 | 16 | 25 | 20 | 27 | 21 | 27 | 11 | 20 | 16 |
| L84-6189 | 16 | 17 | 5 | 27 | 25 | 19 | 25 | 16 | 10 | 21 |
| LN84-4332 | 22 | 9 | 22 | 23 | 18 | 17 | 2 | 4 | 19 | 24 |
| LN84-7577 | 22 | 13 | 21 | 3 | 13 | 10 | 21 | 5 | 16 | 23 |
| LN84-15336 | 26 | 26 | 18 | 21 | 18 | 22 | 7 | 19 | 11 | 13 |
| LN84-18266 | 11 | 18 | 23 | 7 | 13 | 3 | 28 | 15 | 1 | 4 |
| LN84-19560 | 8 | 11 | 12 | 24 | 8 | 22 | 25 | 8 | 13 | 18 |
| Md83-2048 | 13 | 3 | 2 | 17 | 8 | 24 | 9 | 2 | 14 | 3 |

## UNIFORM TEST III, 1988

### YIELD RANK

| Strain | Adel-phia NJ | Hoyt-ville OH | Ripley OH | So. Charl-eston OH | Wooster OH | Malden Ont. | Landis-ville PA | Elk Point SD |
|---|---|---|---|---|---|---|---|---|
| Cartter (SCN) | 22 | 13 | 3 | 27 | 20 | 25 | 26 | 16 |
| Dunfield | 29 | 29 | 28 | 29 | 29 | 29 | 28 | 27 |
| Flyer (IV) | 1 | 25 | 10 | 9 | 4 | 14 | 4 | 2 |
| Resnik (III) | 10 | 28 | 8 | 4 | 6 | 10 | 14 | 18 |
| Hobbit 87 (dt) | 25 | 11 | 21 | 1 | 26 | 12 | 21 | 21 |
| A86-301024 | 5 | 2 | 13 | 7 | 2 | 1 | 10 | 20 |
| A86-303014 | 3 | 15 | 19 | 13 | 1 | 6 | 5 | 1 |
| C1717 | 19 | 1 | 11 | 20 | 16 | 2 | 20 | 24 |
| C1720 | 26 | 18 | 13 | 11 | 24 | 11 | 12 | 4 |
| HC81-1511 (dt) | 23 | 2 | 24 | 22 | 27 | 17 | 29 | 28 |
| HC82-4965 (dt) | 28 | 20 | 5 | 13 | 28 | 18 | 27 | 29 |
| HC83-4532 (dt) | 15 | 6 | 2 | 2 | 23 | 8 | 11 | 19 |
| HC83-4589 (dt) | 8 | 6 | 4 | 3 | 19 | 20 | 25 | 15 |
| HC84-553-1 (dt) | 14 | 15 | 18 | 10 | 18 | 24 | 23 | 26 |
| HM8597 | 4 | 24 | 1 | 12 | 13 | 5 | 1 | 11 |
| HM8625 | 24 | 9 | 27 | 15 | 21 | 15 | 16 | 14 |
| HM8632 | 7 | 5 | 7 | 16 | 5 | 9 | 13 | 12 |
| HM8636 | 16 | 22 | 11 | 26 | 3 | 18 | 22 | 9 |
| L82-4050 | 19 | 11 | 29 | 5 | 11 | 26 | 9 | 17 |
| L83-3819 | 17 | 19 | 15 | 27 | 14 | 28 | 18 | 8 |
| L83-3942 | 19 | 27 | 17 | 25 | 12 | 27 | 19 | 22 |
| L83-7573 | 27 | 6 | 5 | 19 | 17 | 22 | 15 | 23 |
| L84-6189 | 9 | 17 | 9 | 20 | 7 | 16 | 24 | 25 |
| LN84-4332 | 12 | 10 | 20 | 24 | 10 | 12 | 3 | 13 |
| LN84-7577 | 11 | 20 | 23 | 8 | 25 | 3 | 6 | 5 |
| LN84-15336 | 18 | 23 | 16 | 23 | 15 | 3 | 7 | 3 |
| LN84-18266 | 6 | 4 | 26 | 17 | 8 | 7 | 8 | 7 |
| LN84-19560 | 12 | 13 | 24 | 18 | 22 | 21 | 17 | 6 |
| Md83-2048 | 2 | 25 | 21 | 6 | 9 | 23 | 2 | 9 |

## UNIFORM TEST III, 1988

### MATURITY (date)

| Strain | Mean 19 Tests | George-town DE | Middle-town DE | Packwood IA | Stuart IA | Tingley IA | Eldorado IL | Urbana IL |
|---|---|---|---|---|---|---|---|---|
| Cartter (SCN) | -2.5 | | | | -6 | | -1 | -1 |
| Dunfield | -6.0 | | | | -9 | | -8 | -6 |
| Flyer (IV) | 4.3 | | | | 4 | | 6 | 5 |
| Resnik (III) | 09/20.5 | | | | 09/11 | | 09/10 | 09/19 |
| Hobbit 87 (dt) | 0.7 | | | | 2 | | 2 | 2 |
| A86-301024 | -0.8 | | | | -3 | | -2 | -1 |
| A86-303014 | 0.9 | | | | 2 | | 0 | -1 |
| C1717 | 0.4 | | | | -2 | | -1 | -2 |
| C1720 | -0.5 | | | | -2 | | 0 | -6 |
| HC81-1511 (dt) | 1.2 | | | | 1 | | 2 | -2 |
| HC82-4965 (dt) | -2.9 | | | | -6 | | -3 | -3 |
| HC83-4532 (dt) | 0.2 | | | | 0 | | 0 | 0 |
| HC83-4589 (dt) | 3.8 | | | | 3 | | 6 | 1 |
| HC84-553-1 (dt) | -1.1 | | | | 1 | | -1 | 1 |
| HM8597 | 3.1 | | | | 3 | | 4 | 2 |
| HM8625 | -5.1 | | | | -9 | | -3 | -8 |
| HM8632 | -3.9 | | | | -6 | | -3 | -9 |
| HM8636 | -1.8 | | | | -3 | | -2 | -1 |
| L82-4050 | 0.2 | | | | 3 | | -1 | -3 |
| L83-3819 | 3.4 | | | | 5 | | 2 | 7 |
| L83-3942 | 1.8 | | | | 2 | | 2 | 8 |
| L83-7573 | -0.6 | | | | -5 | | -1 | 0 |
| L84-6189 | 2.5 | | | | 2 | | 1 | 2 |
| LN84-4332 | -2.1 | | | | -2 | | -3 | -3 |
| LN84-7577 | -0.2 | | | | 0 | | -1 | -2 |
| LN84-15336 | -3.4 | | | | -4 | | -2 | -2 |
| LN84-18266 | -2.3 | | | | -6 | | -1 | -5 |
| LN84-19560 | -2.0 | | | | -6 | | -2 | -2 |
| Md83-2048 | 4.2 | | | | 3 | | 4 | 9 |
| Date Planted | 05/15.1 | | | | 05/10 | | 05/10 | 05/03 |
| Days to Mature | 128 | | | | 124 | | 123 | 139 |

## UNIFORM TEST III, 1988

### MATURITY (date)

| Strain | Bluff-ton IN | Lafay-ette IN | Vince-nnes IN | Man-hattan KS | Pow-hattan KS | Topeka KS | Lexing-ton KY | Queens-town MD | Colum-bia MO | Mead NE |
|---|---|---|---|---|---|---|---|---|---|---|
| Cartter (SCN) | -1 | -2 | -3 | -1 | | | -1 | -1 | - | -6 |
| Dunfield | -3 | -1 | -2 | -4 | | | -15 | -5 | -6 | -18 |
| Flyer (IV) | 0 | 3 | 6 | 2 | | | 8 | 5 | 3 | 3 |
| Resnik (III) | 09/18 | 09/23 | 09/06 | 09/23 | | | 09/14 | 09/22 | 09/14 | 09/23 |
| Hobbit 87 (dt) | 4 | -1 | 2 | 1 | | | 4 | -1 | 2 | -2 |
| A86-301024 | -2 | -1 | 0 | -1 | | | -2 | -2 | -1 | -5 |
| A86-303014 | -2 | 4 | 3 | 2 | | | 0 | 1 | 0 | -5 |
| C1717 | -1 | -1 | 3 | 3 | | | -2 | 1 | 1 | 1 |
| C1720 | -2 | 0 | 1 | -1 | | | -3 | 1 | 1 | -4 |
| HC81-1511 (dt) | 6 | 6 | 5 | 1 | | | 1 | 2 | 2 | -2 |
| HC82-4965 (dt) | 2 | 0 | 2 | -1 | | | -11 | -3 | 0 | -5 |
| HC83-4532 (dt) | 3 | 1 | 4 | 1 | | | 3 | 1 | 0 | -4 |
| HC83-4589 (dt) | 2 | 4 | 6 | 3 | | | 8 | 5 | 3 | 3 |
| HC84-553-1 (dt) | 3 | -1 | 3 | -1 | | | -2 | 0 | -2 | -5 |
| HM8597 | 3 | 2 | 5 | 1 | | | 7 | 3 | 3 | 3 |
| HM8625 | -4 | -6 | -3 | -3 | | | -7 | -5 | -3 | -8 |
| HM8632 | -5 | -4 | -2 | -3 | | | -5 | -1 | -2 | -7 |
| HM8636 | 0 | -2 | 0 | 0 | | | -1 | -1 | -2 | -5 |
| L82-4050 | 2 | -3 | 2 | -2 | | | -4 | -1 | 3 | -2 |
| L83-3819 | 4 | 3 | 5 | 1 | | | 2 | 0 | 2 | 3 |
| L83-3942 | 4 | 3 | 5 | -3 | | | -1 | -2 | 0 | -5 |
| L83-7573 | -1 | -3 | 4 | 0 | | | -1 | -2 | 0 | -1 |
| L84-6189 | 2 | 0 | 7 | 2 | | | 6 | 4 | 1 | 2 |
| LN84-4332 | -3 | -2 | -2 | -2 | | | -1 | -1 | 1 | -3 |
| LN84-7577 | 0 | -3 | 0 | 1 | | | 1 | 2 | 3 | -1 |
| LN84-15336 | -3 | -1 | -1 | -3 | | | -11 | -1 | -2 | -5 |
| LN84-18266 | 0 | -3 | 0 | -1 | | | -11 | -1 | -1 | -5 |
| LN84-19560 | 3 | 0 | -2 | -1 | | | -11 | 1 | -1 | -4 |
| Md83-2048 | 3 | 3 | 8 | 3 | | | 7 | 4 | 5 | 1 |
| Date Planted | 05/11 | 05/10 | 05/05 | 05/27 | | | 05/18 | 06/01 | 05/17 | 05/11 |
| Days to Mature | 130 | 136 | 124 | 119 | | | 119 | 113 | 120 | 135 |

## UNIFORM TEST III, 1988

### MATURITY (date)

| Strain | Adel-phia NJ | Hoyt-ville OH | Ripley OH | So. Charl-eston OH | Wooster OH | Malden Ont. | Landis-ville PA | Elk Point SD |
|---|---|---|---|---|---|---|---|---|
| Cartter (SCN) | -2 | -2 | 0 | -4 | -3 | -5 | -4 | -2 |
| Dunfield | -9 | -1 | -8 | -8 | 3 | -4 | -3 | -7 |
| Flyer (IV) | 4 | 6 | 6 | 3 | 4 | 4 | 5 | 4 |
| Resnik (III) | 10/05 | 09/16 | 09/12 | 09/25 | 09/30 | 10/02 | 10/07 | 09/21 |
| Hobbit 87 (dt) | -3 | 2 | 3 | 0 | -1 | -3 | 0 | 0 |
| A86-301024 | 2 | -1 | -2 | -4 | 3 | 0 | 7 | 0 |
| A86-303014 | 2 | 1 | 1 | -2 | 4 | 0 | 7 | 1 |
| C1717 | -1 | 3 | 0 | -1 | -1 | 0 | 7 | 1 |
| C1720 | 0 | 1 | 1 | -2 | 0 | 0 | 5 | 0 |
| HC81-1511 (dt) | 0 | 0 | 1 | 1 | -2 | -2 | 3 | -1 |
| HC82-4965 (dt) | 0 | -3 | -3 | -3 | -4 | -6 | -4 | -4 |
| HC83-4532 (dt) | -1 | 0 | 1 | 2 | -2 | -4 | 0 | -1 |
| HC83-4589 (dt) | 3 | 7 | 5 | 3 | 3 | 2 | 3 | 3 |
| HC84-553-1 (dt) | -4 | 0 | 0 | -5 | -3 | -4 | 3 | -4 |
| HM8597 | 2 | 5 | 3 | 3 | 2 | 2 | 3 | 2 |
| HM8625 | -7 | -4 | -4 | -9 | -3 | -4 | -2 | -4 |
| HM8632 | -6 | -2 | -1 | -6 | -3 | -3 | -2 | -5 |
| HM8636 | -2 | 0 | -3 | -3 | -2 | -3 | -2 | -2 |
| L82-4050 | -1 | 3 | 0 | 3 | -1 | 4 | 0 | 2 |
| L83-3819 | 2 | 5 | 3 | 6 | 4 | 5 | 3 | 3 |
| L83-3942 | 0 | 6 | 3 | 5 | 3 | 3 | 0 | 1 |
| L83-7573 | 0 | -1 | 1 | -2 | 1 | 0 | 0 | -1 |
| L84-6189 | 1 | 3 | 5 | 0 | 3 | 2 | 3 | 1 |
| LN84-4332 | -6 | 1 | -1 | -5 | -2 | -3 | -4 | 1 |
| LN84-7577 | -1 | 0 | 0 | -2 | 0 | 0 | -2 | 2 |
| LN84-15336 | -6 | -2 | -4 | -8 | -1 | -5 | -2 | -1 |
| LN84-18266 | -2 | -1 | -2 | -2 | 0 | -2 | -1 | 0 |
| LN84-19560 | -1 | -2 | -4 | -3 | 0 | -3 | 0 | 0 |
| Md83-2048 | 6 | 6 | 4 | 2 | 7 | -2 | 3 | 4 |
| Date Planted | 06/15 | 05/03 | 04/29 | 05/03 | 05/12 | 05/18 | 06/06 | 05/16 |
| Days to Mature | 112 | 136 | 136 | 145 | 141 | 137 | 123 | 128 |

## UNIFORM TEST III, 1988

### LODGING (score)

| Strain | Mean 23 Tests | George-town DE | Middle-town DE | Packwood IA | Stuart IA | Tingley IA | Eldorado IL | Urbana IL |
|---|---|---|---|---|---|---|---|---|
| Cartter (SCN) | 1.6 | | | 1.3 | 1.2 | 1.3 | 1.9 | 1.0 |
| Dunfield | 2.5 | | | 2.2 | 1.8 | 2.2 | 3.3 | 2.7 |
| Flyer (IV) | 1.3 | | | 1.1 | 1.1 | 1.3 | 1.2 | 1.0 |
| Resnik (III) | 1.3 | | | 1.2 | 1.1 | 1.3 | 1.1 | 1.0 |
| Hobbit 87 (dt) | 1.1 | | | 1.0 | 1.0 | 1.2 | 1.1 | 1.0 |
| A86-301024 | 1.2 | | | 1.0 | 1.0 | 1.1 | 1.2 | 1.0 |
| A86-303014 | 1.4 | | | 1.2 | 1.2 | 1.3 | 1.2 | 1.0 |
| C1717 | 1.4 | | | 1.1 | 1.0 | 1.2 | 1.3 | 1.0 |
| C1720 | 1.5 | | | 1.2 | 1.1 | 1.2 | 1.4 | 1.7 |
| HC81-1511 (dt) | 1.1 | | | 1.0 | 1.0 | 1.2 | 1.1 | 1.0 |
| HC82-4965 (dt) | 1.1 | | | 1.0 | 1.0 | 1.1 | 1.1 | 1.0 |
| HC83-4532 (dt) | 1.2 | | | 1.1 | 1.0 | 1.2 | 1.2 | 1.0 |
| HC83-4589 (dt) | 1.2 | | | 1.0 | 1.0 | 1.2 | 1.1 | 1.0 |
| HC84-553-1 (dt) | 1.2 | | | 1.1 | 1.0 | 1.2 | 1.3 | 1.0 |
| HM8597 | 1.3 | | | 1.1 | 1.2 | 1.4 | 1.1 | 1.0 |
| HM8625 | 1.3 | | | 1.0 | 1.1 | 1.3 | 1.2 | 1.0 |
| HM8632 | 1.4 | | | 1.0 | 1.1 | 1.3 | 1.2 | 1.0 |
| HM8636 | 1.4 | | | 1.1 | 1.2 | 1.3 | 1.3 | 1.0 |
| L82-4050 | 1.4 | | | 1.4 | 1.1 | 1.5 | 1.3 | 1.7 |
| L83-3819 | 1.8 | | | 2.0 | 1.6 | 2.1 | 2.0 | 3.0 |
| L83-3942 | 1.8 | | | 1.5 | 1.8 | 1.6 | 2.2 | 3.0 |
| L83-7573 | 1.5 | | | 1.1 | 1.2 | 1.2 | 1.5 | 1.0 |
| L84-6189 | 1.6 | | | 1.3 | 1.1 | 1.2 | 1.5 | 1.3 |
| LN84-4332 | 1.3 | | | 1.0 | 1.0 | 1.2 | 1.2 | 1.0 |
| LN84-7577 | 1.1 | | | 1.0 | 1.0 | 1.2 | 1.0 | 1.0 |
| LN84-15336 | 1.3 | | | 1.1 | 1.0 | 1.2 | 1.2 | 1.0 |
| LN84-18266 | 1.5 | | | 1.2 | 1.1 | 1.2 | 1.6 | 1.0 |
| LN84-19560 | 1.4 | | | 1.2 | 1.1 | 1.4 | 1.3 | 1.0 |
| Md83-2048 | 1.3 | | | 1.0 | 1.0 | 1.0 | 1.2 | 1.0 |

## UNIFORM TEST III, 1988

### LODGING (score)

| Strain | Bluff-ton IN | Lafay-ette IN | Vince-nnes IN | Man-hattan KS | Pow-hattan KS | Topeka KS | Lexing-ton KY | Queens-town MD | Colum-bia MO | Mead NE |
|---|---|---|---|---|---|---|---|---|---|---|
| Cartter (SCN) | 1.2 | 1.3 | 1.0 | 2.3 | 1.0 | 2.0 | 1.8 | 2.7 | - | 1.0 |
| Dunfield | 2.2 | 2.8 | 2.8 | 3.7 | 1.3 | 3.0 | 2.2 | 3.8 | 1.0 | 1.7 |
| Flyer (IV) | 1.0 | 1.0 | 1.0 | 1.7 | 1.0 | 2.0 | 1.7 | 2.0 | 1.0 | 1.0 |
| Resnik (III) | 1.0 | 1.0 | 1.0 | 2.0 | 1.0 | 1.3 | 1.5 | 2.2 | 1.0 | 1.0 |
| Hobbit 87 (dt) | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.5 | 2.0 | 1.0 | 1.2 |
| A86-301024 | 1.2 | 1.0 | 1.0 | 2.0 | 1.0 | 2.0 | 1.2 | 1.7 | 1.0 | 1.0 |
| A86-303014 | 1.0 | 1.0 | 1.2 | 2.3 | 1.0 | 2.3 | 1.5 | 2.3 | 1.3 | 1.0 |
| C1717 | 1.2 | 1.0 | 1.0 | 2.0 | 1.0 | 2.0 | 1.5 | 2.3 | 1.7 | 1.0 |
| C1720 | 1.0 | 1.5 | 1.2 | 2.0 | 1.0 | 2.7 | 1.7 | 2.2 | 1.0 | 1.0 |
| HC81-1511 (dt) | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.5 | 1.7 | 1.0 | 1.0 |
| HC82-4965 (dt) | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.5 | 2.0 | 1.0 | 1.0 |
| HC83-4532 (dt) | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 2.0 | 2.0 | 1.0 | 1.0 |
| HC83-4589 (dt) | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 2.2 | 2.0 | 1.0 | 1.0 |
| HC84-553-1 (dt) | 1.0 | 1.0 | 1.0 | 1.3 | 1.0 | 1.0 | 1.7 | 2.0 | 1.3 | 1.0 |
| HM8597 | 1.0 | 1.0 | 1.0 | 1.7 | 1.0 | 1.3 | 1.5 | 2.0 | 1.0 | 1.0 |
| HM8625 | 1.0 | 1.0 | 1.0 | 2.0 | 1.0 | 1.7 | 1.0 | 2.0 | 1.0 | 1.0 |
| HM8632 | 1.0 | 1.0 | 1.0 | 2.3 | 1.0 | 1.7 | 1.5 | 2.2 | 1.0 | 1.0 |
| HM8636 | 1.0 | 1.0 | 1.0 | 2.0 | 1.0 | 2.0 | 1.7 | 2.2 | 1.0 | 1.0 |
| L82-4050 | 1.3 | 1.5 | 1.0 | 1.0 | 1.0 | 1.0 | 1.5 | 2.0 | 1.0 | 1.0 |
| L83-3819 | 1.7 | 1.0 | 1.0 | 1.7 | 1.3 | 1.0 | 2.3 | 2.7 | 1.0 | 1.5 |
| L83-3942 | 1.7 | 1.0 | 1.2 | 1.7 | 1.0 | 1.7 | 2.3 | 2.5 | 1.0 | 1.2 |
| L83-7573 | 1.3 | 1.5 | 1.3 | 2.3 | 1.0 | 1.3 | 1.7 | 2.5 | 1.0 | 1.0 |
| L84-6189 | 1.3 | 1.2 | 1.2 | 2.3 | 1.0 | 2.7 | 1.8 | 2.5 | 1.0 | 1.2 |
| LN84-4332 | 1.0 | 1.0 | 1.0 | 1.7 | 1.0 | 1.7 | 1.5 | 2.0 | 1.0 | 1.0 |
| LN84-7577 | 1.0 | 1.0 | 1.0 | 1.3 | 1.0 | 1.0 | 1.3 | 1.3 | 1.0 | 1.0 |
| LN84-15336 | 1.0 | 1.0 | 1.0 | 1.7 | 1.0 | 1.7 | 1.5 | 1.8 | 1.3 | 1.0 |
| LN84-18266 | 1.2 | 1.2 | 1.0 | 2.3 | 1.0 | 2.3 | 1.3 | 2.5 | 1.0 | 1.0 |
| LN84-19560 | 1.0 | 1.0 | 1.0 | 1.3 | 1.0 | 1.3 | 1.5 | 2.7 | 1.7 | 1.0 |
| Md83-2048 | 1.2 | 1.0 | 1.0 | 2.0 | 1.0 | 2.3 | 1.7 | 1.8 | 1.0 | 1.0 |

## UNIFORM TEST III, 1988

### LODGING (score)

| Strain | Adel-phia NJ | Hoyt-ville OH | Ripley OH | So. Charl-eston OH | Wooster OH | Malden Ont. | Landis-ville PA | Elk Point SD |
|---|---|---|---|---|---|---|---|---|
| Cartter (SCN) | 1.3 | 1.5 | 1.4 | 2.3 | 1.7 | 1.3 | 2.8 | 1.0 |
| Dunfield | 3.7 | 1.7 | 2.0 | 4.7 | 2.1 | 2.7 | 3.8 | 1.0 |
| Flyer (IV) | 1.0 | 1.5 | 1.2 | 1.7 | 1.6 | 1.7 | 2.0 | 1.0 |
| Resnik (III) | 1.0 | 1.4 | 1.1 | 1.5 | 1.6 | 1.7 | 1.8 | 1.0 |
| Hobbit 87 (dt) | 1.0 | 1.3 | 1.1 | 1.5 | 1.2 | 1.0 | 1.3 | 1.0 |
| A86-301024 | 1.0 | 1.3 | 1.1 | 1.5 | 1.4 | 1.0 | 1.7 | 1.0 |
| A86-303014 | 1.0 | 1.4 | 1.2 | 2.2 | 1.5 | 1.5 | 2.3 | 1.0 |
| C1717 | 1.0 | 1.5 | 1.1 | 1.8 | 1.5 | 1.3 | 2.5 | 1.0 |
| C1720 | 1.0 | 1.5 | 1.1 | 2.2 | 1.9 | 1.5 | 2.5 | 1.0 |
| HC81-1511 (dt) | 1.0 | 1.4 | 1.1 | 1.0 | 1.2 | 1.0 | 1.2 | 1.0 |
| HC82-4965 (dt) | 1.0 | 1.3 | 1.0 | 1.0 | 1.3 | 1.2 | 1.2 | 1.0 |
| HC83-4532 (dt) | 1.0 | 1.3 | 1.2 | 1.7 | 1.3 | 1.2 | 1.8 | 1.0 |
| HC83-4589 (dt) | 1.3 | 1.4 | 1.0 | 1.2 | 1.3 | 1.0 | 1.7 | 1.0 |
| HC84-553-1 (dt) | 1.3 | 1.2 | 1.1 | 1.3 | 1.3 | 1.0 | 1.7 | 1.0 |
| HM8597 | 1.0 | 1.4 | 1.2 | 1.3 | 1.6 | 1.2 | 2.3 | 1.0 |
| HM8625 | 1.0 | 1.3 | 1.1 | 1.7 | 1.4 | 1.2 | 2.7 | 1.0 |
| HM8632 | 1.7 | 1.6 | 1.2 | 1.7 | 1.5 | 1.3 | 3.0 | 1.0 |
| HM8636 | 1.0 | 1.4 | 1.2 | 1.7 | 1.5 | 1.7 | 2.8 | 1.0 |
| L82-4050 | 1.7 | 1.5 | 1.1 | 2.2 | 1.3 | 2.2 | 2.5 | 1.0 |
| L83-3819 | 2.0 | 1.7 | 1.4 | 2.7 | 1.5 | 2.2 | 2.8 | 1.0 |
| L83-3942 | 2.0 | 1.8 | 1.4 | 2.8 | 1.6 | 2.5 | 3.2 | 1.0 |
| L83-7573 | 1.0 | 1.5 | 1.2 | 2.3 | 1.8 | 1.5 | 3.0 | 2.0 |
| L84-6189 | 1.0 | 1.5 | 1.2 | 2.7 | 2.1 | 1.5 | 3.0 | 1.0 |
| LN84-4332 | 1.0 | 1.4 | 1.1 | 1.8 | 1.5 | 1.0 | 2.2 | 1.0 |
| LN84-7577 | 1.0 | 1.3 | 1.2 | 1.0 | 1.5 | 1.0 | 1.5 | 1.0 |
| LN84-15336 | 1.0 | 1.4 | 1.6 | 1.3 | 1.5 | 1.0 | 2.3 | 1.0 |
| LN84-18266 | 2.0 | 1.4 | 1.2 | 2.7 | 1.8 | 1.8 | 2.8 | 1.0 |
| LN84-19560 | 1.3 | 1.5 | 1.2 | 2.5 | 1.6 | 1.8 | 2.8 | 1.0 |
| Md83-2048 | 1.0 | 1.3 | 1.1 | 1.5 | 1.5 | 1.0 | 2.5 | 1.0 |

## UNIFORM TEST III, 1988

### PLANT HEIGHT (inches)

| Strain | Mean 22 Tests | George-town DE | Middle-town DE | Packwood IA | Stuart IA | Tingley IA | Eldorado IL | Urbana IL |
|---|---|---|---|---|---|---|---|---|
| Cartter (SCN) | 35 | | | 28 | 32 | 32 | 39 | 32 |
| Dunfield | 38 | | | 33 | 39 | 35 | 42 | 37 |
| Flyer (IV) | 34 | | | 30 | 35 | 33 | 41 | 33 |
| Resnik (III) | 32 | | | 27 | 32 | 31 | 38 | 33 |
| Hobbit 87 (dt) | 22 | | | 17 | 22 | 21 | 23 | 23 |
| A86-301024 | 32 | | | 25 | 30 | 30 | 39 | 33 |
| A86-303014 | 33 | | | 29 | 34 | 30 | 35 | 33 |
| C1717 | 36 | | | 31 | 37 | 35 | 40 | 37 |
| C1720 | 34 | | | 29 | 35 | 32 | 42 | 34 |
| HC81-1511 (dt) | 21 | | | 18 | 21 | 20 | 24 | 24 |
| HC82-4965 (dt) | 21 | | | 19 | 23 | 23 | 22 | 24 |
| HC83-4532 (dt) | 22 | | | 19 | 23 | 22 | 24 | 23 |
| HC83-4589 (dt) | 23 | | | 20 | 23 | 24 | 22 | 24 |
| HC84-553-1 (dt) | 23 | | | 21 | 25 | 25 | 24 | 26 |
| HM8597 | 33 | | | 28 | 31 | 32 | 39 | 34 |
| HM8625 | 33 | | | 29 | 34 | 33 | 32 | 34 |
| HM8632 | 33 | | | 28 | 33 | 32 | 34 | 31 |
| HM8636 | 34 | | | 29 | 35 | 33 | 37 | 34 |
| L82-4050 | 26 | | | 24 | 30 | 30 | 27 | 30 |
| L83-3819 | 35 | | | 31 | 39 | 39 | 40 | 39 |
| L83-3942 | 34 | | | 34 | 39 | 40 | 39 | 39 |
| L83-7573 | 34 | | | 30 | 34 | 30 | 39 | 36 |
| L84-6189 | 37 | | | 31 | 36 | 34 | 41 | 39 |
| LN84-4332 | 32 | | | 26 | 32 | 29 | 36 | 33 |
| LN84-7577 | 27 | | | 22 | 30 | 26 | 31 | 28 |
| LN84-15336 | 33 | | | 28 | 33 | 33 | 36 | 30 |
| LN84-18266 | 32 | | | 27 | 34 | 30 | 37 | 32 |
| LN84-19560 | 33 | | | 28 | 34 | 31 | 36 | 32 |
| Md83-2048 | 36 | | | 30 | 34 | 31 | 41 | 38 |

## UNIFORM TEST III, 1988

### PLANT HEIGHT (inches)

| Strain | Bluff-ton IN | Lafay-ette IN | Vince-nnes IN | Man-hattan KS | Pow-hattan KS | Topeka KS | Lexing-ton KY | Queens-town MD | Colum-bia MO | Mead NE |
|---|---|---|---|---|---|---|---|---|---|---|
| Cartter (SCN) | 33 | 37 | 34 | 43 | 26 | 42 | 31 | 35 | | 33 |
| Dunfield | 36 | 42 | 43 | 44 | 31 | 45 | 33 | 36 | | 33 |
| Flyer (IV) | 27 | 35 | 36 | 42 | 27 | 42 | 27 | 33 | | 33 |
| Resnik (III) | 28 | 35 | 31 | 42 | 25 | 38 | 27 | 32 | | 31 |
| Hobbit 87 (dt) | 23 | 21 | 18 | 20 | 19 | 19 | 24 | 19 | | 25 |
| A86-301024 | 28 | 33 | 28 | 45 | 23 | 43 | 25 | 30 | | 29 |
| A86-303014 | 26 | 37 | 39 | 45 | 24 | 42 | 30 | 32 | | 28 |
| C1717 | 33 | 34 | 34 | 48 | 28 | 40 | 30 | 34 | | 37 |
| C1720 | 25 | 38 | 30 | 45 | 28 | 44 | 30 | 35 | | 34 |
| HC81-1511 (dt) | 23 | 23 | 20 | 22 | 21 | 20 | 25 | 19 | | 19 |
| HC82-4965 (dt) | 20 | 23 | 20 | 22 | 18 | 18 | 25 | 20 | | 16 |
| HC83-4532 (dt) | 21 | 23 | 18 | 22 | 17 | 21 | 24 | 20 | | 17 |
| HC83-4589 (dt) | 24 | 22 | 20 | 24 | 19 | 19 | 24 | 21 | | 19 |
| HC84-553-1 (dt) | 21 | 25 | 21 | 25 | 20 | 21 | 26 | 23 | | 19 |
| HM8597 | 28 | 35 | 35 | 43 | 24 | 38 | 28 | 31 | | 31 |
| HM8625 | 25 | 33 | 25 | 46 | 26 | 40 | 26 | 29 | | 33 |
| HM8632 | 29 | 32 | 29 | 43 | 28 | 35 | 28 | 32 | | 31 |
| HM8636 | 33 | 32 | 30 | 44 | 28 | 38 | 32 | 31 | | 28 |
| L82-4050 | 25 | 27 | 27 | 25 | 21 | 21 | 29 | 20 | | 22 |
| L83-3819 | 39 | 37 | 37 | 32 | 31 | 33 | 34 | 33 | | 28 |
| L83-3942 | 29 | 36 | 35 | 30 | 32 | 32 | 30 | 28 | | 29 |
| L83-7573 | 31 | 35 | 35 | 46 | 26 | 40 | 32 | 32 | | 34 |
| L84-6189 | 33 | 38 | 37 | 48 | 28 | 43 | 31 | 36 | | 34 |
| LN84-4332 | 27 | 32 | 29 | 42 | 26 | 40 | 28 | 29 | | 28 |
| LN84-7577 | 20 | 26 | 25 | 37 | 20 | 36 | 22 | 28 | | 24 |
| LN84-15336 | 27 | 33 | 30 | 44 | 25 | 39 | 30 | 30 | | 32 |
| LN84-18266 | 29 | 32 | 26 | 42 | 25 | 39 | 27 | 30 | | 31 |
| LN84-19560 | 32 | 33 | 31 | 41 | 25 | 40 | 29 | 32 | | 28 |
| Md83-2048 | 30 | 35 | 35 | 47 | 27 | 44 | 31 | 33 | | 36 |

## UNIFORM TEST III, 1988

### PLANT HEIGHT (inches)

| Strain | Adel-phia NJ | Hoyt-ville OH | Ripley OH | So. Charl-eston OH | Wooster OH | Malden Ont. | Landis-ville PA | Elk Point SD |
|---|---|---|---|---|---|---|---|---|
| Cartter (SCN) | 27 | 34 | 34 | 39 | 31 | 44 | 38 | 38 |
| Dunfield | 32 | 36 | 37 | 42 | 30 | 48 | 39 | 41 |
| Flyer (IV) | 28 | 31 | 31 | 37 | 30 | 43 | 38 | 37 |
| Resnik (III) | 23 | 30 | 30 | 38 | 28 | 39 | 31 | 35 |
| Hobbit 87 (dt) | 23 | 24 | 19 | 25 | 16 | 28 | 22 | 23 |
| A86-301024 | 28 | 29 | 29 | 36 | 27 | 41 | 32 | 33 |
| A86-303014 | 25 | 31 | 31 | 36 | 30 | 41 | 32 | 30 |
| C1717 | 31 | 35 | 31 | 38 | 30 | 47 | 36 | 40 |
| C1720 | 26 | 33 | 30 | 39 | 29 | 45 | 38 | 37 |
| HC81-1511 (dt) | 22 | 22 | 18 | 24 | 16 | 29 | 17 | 21 |
| HC82-4965 (dt) | 23 | 22 | 18 | 24 | 17 | 26 | 21 | 23 |
| HC83-4532 (dt) | 23 | 24 | 19 | 28 | 16 | 28 | 23 | 24 |
| HC83-4589 (dt) | 22 | 26 | 19 | 28 | 18 | 30 | 24 | 24 |
| HC84-553-1 (dt) | 24 | 23 | 19 | 26 | 19 | 30 | 23 | 23 |
| HM8597 | 26 | 30 | 32 | 38 | 29 | 39 | 35 | 34 |
| HM8625 | 30 | 33 | 29 | 34 | 28 | 42 | 38 | 39 |
| HM8632 | 30 | 31 | 31 | 35 | 30 | 43 | 39 | 38 |
| HM8636 | 30 | 30 | 34 | 37 | 29 | 45 | 39 | 38 |
| L82-4050 | 23 | 30 | 21 | 29 | 17 | 36 | 27 | 29 |
| L83-3819 | 31 | 39 | 32 | 40 | 25 | 44 | 34 | 38 |
| L83-3942 | 31 | 39 | 30 | 40 | 25 | 43 | 38 | 38 |
| L83-7573 | 28 | 33 | 32 | 37 | 30 | 43 | 40 | 33 |
| L84-6189 | 29 | 34 | 31 | 43 | 34 | 46 | 42 | 36 |
| LN84-4332 | 27 | 30 | 30 | 34 | 28 | 42 | 36 | 34 |
| LN84-7577 | 27 | 23 | 26 | 31 | 22 | 35 | 33 | 32 |
| LN84-15336 | 28 | 31 | 33 | 34 | 28 | 42 | 38 | 36 |
| LN84-18266 | 26 | 34 | 28 | 38 | 29 | 41 | 34 | 33 |
| LN84-19560 | 27 | 31 | 31 | 37 | 29 | 42 | 39 | 33 |
| Md83-2048 | 30 | 33 | 33 | 39 | 33 | 45 | 40 | 39 |

## UNIFORM TEST III, 1988

### SEED QUALITY (score)

| Strain | Mean 21 Tests | George-town DE | Middle-town DE | Packwood IA | Stuart IA | Tingley IA | Eldorado IL | Urbana IL |
|---|---|---|---|---|---|---|---|---|
| Cartter (SCN) | 2.1 | | | 4.5 | 2.6 | 2.8 | 2.8 | 2.1 |
| Dunfield | 3.1 | | | 4.6 | 4.5 | 2.9 | 4.2 | 3.2 |
| Flyer (IV) | 1.7 | | | 4.0 | 1.8 | 2.3 | 2.0 | 2.4 |
| Resnik (III) | 1.7 | | | 3.8 | 1.8 | 2.0 | 1.7 | 2.3 |
| Hobbit 87 (dt) | 1.6 | | | 3.8 | 1.5 | 1.7 | 2.2 | 1.4 |
| A86-301024 | 2.1 | | | 4.0 | 2.3 | 2.0 | 3.0 | 2.2 |
| A86-303014 | 2.3 | | | 4.7 | 2.9 | 3.2 | 3.2 | 3.1 |
| C1717 | 2.1 | | | 4.0 | 2.4 | 2.2 | 3.0 | 2.2 |
| C1720 | 2.3 | | | 4.0 | 2.1 | 2.4 | 3.3 | 2.2 |
| HC81-1511 (dt) | 1.8 | | | 3.8 | 2.6 | 2.2 | 2.7 | 1.5 |
| HC82-4965 (dt) | 1.9 | | | 4.3 | 2.4 | 2.5 | 2.8 | 1.8 |
| HC83-4532 (dt) | 1.8 | | | 4.4 | 1.3 | 2.3 | 2.0 | 1.7 |
| HC83-4589 (dt) | 1.6 | | | 3.8 | 1.8 | 2.0 | 2.0 | 1.6 |
| HC84-553-1 (dt) | 1.7 | | | 2.3 | 4.0 | 1.7 | 2.5 | 1.3 |
| HM8597 | 1.8 | | | 4.8 | 2.2 | 1.6 | 2.0 | 2.4 |
| HM8625 | 2.4 | | | 4.5 | 3.2 | 3.5 | 3.5 | 3.2 |
| HM8632 | 2.7 | | | 5.0 | 2.2 | 4.5 | 4.2 | 4.4 |
| HM8636 | 2.9 | | | 5.0 | 2.7 | 4.7 | 4.0 | 4.5 |
| L82-4050 | 2.2 | | | 3.8 | 3.9 | 2.0 | 2.7 | 1.9 |
| L83-3819 | 1.8 | | | 4.0 | 1.8 | 2.2 | 2.3 | 2.7 |
| L83-3942 | 2.0 | | | 3.5 | 2.2 | 3.1 | 2.7 | 2.5 |
| L83-7573 | 2.2 | | | 4.1 | 3.2 | 3.9 | 2.7 | 3.0 |
| L84-6189 | 2.3 | | | 4.8 | 2.0 | 2.4 | 2.2 | 2.5 |
| LN84-4332 | 2.4 | | | 4.3 | 2.4 | 2.4 | 3.2 | 2.1 |
| LN84-7577 | 2.2 | | | 4.4 | 1.8 | 2.4 | 3.0 | 2.3 |
| LN84-15336 | 2.0 | | | 4.2 | 3.3 | 2.5 | 2.5 | 2.1 |
| LN84-18266 | 1.8 | | | 3.9 | 1.7 | 2.0 | 2.2 | 2.2 |
| LN84-19560 | 2.3 | | | 4.4 | 2.5 | 2.7 | 3.0 | 2.1 |
| Md83-2048 | 2.2 | | | 5.0 | 2.1 | 3.0 | 2.3 | 2.5 |

## UNIFORM TEST III, 1988

### SEED QUALITY (score)

| Strain | Bluff-ton IN | Lafay-ette IN | Vince-nnes IN | Man-hattan KS | Pow-hattan KS | Topeka KS | Lexing-ton KY | Queens-town MD | Colum-bia MO | Mead NE |
|---|---|---|---|---|---|---|---|---|---|---|
| Cartter (SCN) | 1.0 | 1.5 | 1.0 | 2.0 | | 2.0 | 2.0 | 1.8 | | 2.0 |
| Dunfield | 1.5 | 2.0 | 3.5 | 4.0 | | 5.0 | 2.0 | 3.5 | | 3.7 |
| Flyer (IV) | 1.0 | 1.5 | 1.0 | 2.0 | | 1.0 | 1.0 | 1.0 | | 1.0 |
| Resnik (III) | 1.5 | 1.5 | 1.0 | 2.0 | | 1.0 | 1.0 | 1.7 | | 1.0 |
| Hobbit 87 (dt) | 1.0 | 1.0 | 1.0 | 2.0 | | 1.0 | 1.0 | 2.2 | | 1.2 |
| A86-301024 | 1.5 | 1.5 | 1.5 | 2.0 | | 2.0 | 2.0 | 2.0 | | 2.0 |
| A86-303014 | 1.0 | 1.5 | 1.5 | 2.0 | | 2.0 | 3.0 | 1.8 | | 1.8 |
| C1717 | 1.0 | 1.5 | 1.5 | 3.0 | | 1.0 | 1.0 | 1.8 | | 2.5 |
| C1720 | 1.5 | 2.0 | 1.5 | 2.0 | | 2.0 | 2.0 | 1.8 | | 2.0 |
| HC81-1511 (dt) | 1.0 | 2.0 | 1.0 | 2.0 | | 1.0 | 2.0 | 1.2 | | 1.5 |
| HC82-4965 (dt) | 1.0 | 1.0 | 1.0 | 1.0 | | 1.0 | 2.0 | 1.7 | | 1.5 |
| HC83-4532 (dt) | 1.0 | 1.5 | 1.0 | 2.0 | | 2.0 | 1.0 | 1.7 | | 1.0 |
| HC83-4589 (dt) | 1.0 | 1.5 | 1.0 | 2.0 | | 1.0 | 2.0 | 1.2 | | 1.0 |
| HC84-553-1 (dt) | 1.0 | 1.0 | 1.0 | 2.0 | | 2.0 | 2.0 | 1.5 | | 1.7 |
| HM8597 | 1.0 | 1.5 | 1.0 | 1.0 | | 1.0 | 2.0 | 1.3 | | 1.0 |
| HM8625 | 1.5 | 1.5 | 2.0 | 3.0 | | 2.0 | 2.0 | 2.2 | | 2.7 |
| HM8632 | 2.0 | 1.5 | 2.0 | 4.0 | | 2.0 | 2.0 | 2.2 | | 2.5 |
| HM8636 | 1.5 | 2.0 | 2.0 | 4.0 | | 2.0 | 2.0 | 2.3 | | 2.3 |
| L82-4050 | 1.0 | 1.0 | 1.5 | 2.0 | | 3.0 | 2.0 | 2.3 | | 1.8 |
| L83-3819 | 1.0 | 1.5 | 1.0 | 2.0 | | 1.0 | 2.0 | 1.2 | | 1.2 |
| L83-3942 | 1.0 | 1.5 | 1.0 | 2.0 | | 1.0 | 2.0 | 1.7 | | 1.0 |
| L83-7573 | 1.0 | 1.5 | 1.5 | 2.0 | | 1.0 | 1.0 | 2.0 | | 2.0 |
| L84-6189 | 1.0 | 1.0 | 1.0 | 3.0 | | 3.0 | 3.0 | 3.5 | | 1.7 |
| LN84-4332 | 2.0 | 1.5 | 2.0 | 2.0 | | 1.0 | 3.0 | 2.7 | | 2.8 |
| LN84-7577 | 2.0 | 1.0 | 1.5 | 3.0 | | 3.0 | 1.0 | 2.2 | | 2.0 |
| LN84-15336 | 1.0 | 1.5 | 1.5 | 2.0 | | 1.0 | 2.0 | 1.5 | | 1.3 |
| LN84-18266 | 1.5 | 1.0 | 1.5 | 1.0 | | 1.0 | 2.0 | 1.2 | | 1.5 |
| LN84-19560 | 1.5 | 2.0 | 2.0 | 4.0 | | 2.0 | 2.0 | 1.8 | | 1.7 |
| Md83-2048 | 1.0 | 1.5 | 1.5 | 2.0 | | 2.0 | 3.0 | 1.2 | | 1.3 |

## UNIFORM TEST III, 1988

### SEED QUALITY (score)

| Strain | Adel-phia NJ | Hoyt-ville OH | Ripley OH | So. Charl-eston OH | Wooster OH | Malden Ont. | Landis-ville PA | Elk Point SD |
|---|---|---|---|---|---|---|---|---|
| Cartter (SCN) | 1.3 | 3.1 | 2.1 | 2.5 | 1.2 | 1.7 | 2.5 | 1.0 |
| Dunfield | 1.0 | 2.7 | 3.6 | 2.5 | 3.0 | 1.3 | 2.5 | 3.0 |
| Flyer (IV) | 1.0 | 2.5 | 1.2 | 1.5 | 1.5 | 3.0 | 2.0 | 2.0 |
| Resnik (III) | 1.0 | 3.0 | 1.3 | 2.0 | 1.5 | 2.3 | 2.0 | 1.0 |
| Hobbit 87 (dt) | 1.0 | 2.8 | 1.8 | 1.5 | 1.5 | 1.3 | 2.5 | 1.0 |
| A86-301024 | 1.3 | 2.1 | 2.7 | 2.5 | 1.5 | 1.7 | 3.0 | 1.0 |
| A86-303014 | 1.3 | 2.5 | 2.6 | 2.5 | 1.7 | 2.3 | 2.5 | 1.0 |
| C1717 | 1.0 | 2.2 | 2.4 | 2.0 | 2.3 | 2.0 | 3.0 | 2.0 |
| C1720 | 1.0 | 2.6 | 3.0 | 2.5 | 3.3 | 2.0 | 3.0 | 2.0 |
| HC81-1511 (dt) | 1.0 | 1.8 | 1.9 | 1.5 | 2.0 | 1.3 | 2.5 | 1.0 |
| HC82-4965 (dt) | 1.0 | 2.1 | 2.3 | 1.5 | 2.0 | 1.3 | 2.0 | 3.0 |
| HC83-4532 (dt) | 1.0 | 2.0 | 1.5 | 1.5 | 2.2 | 1.7 | 2.5 | 2.0 |
| HC83-4589 (dt) | 1.3 | 1.8 | 1.5 | 1.5 | 1.8 | 1.7 | 2.0 | 1.0 |
| HC84-553-1 (dt) | 1.0 | 1.9 | 1.9 | 1.0 | 1.6 | 2.0 | 2.0 | 1.0 |
| HM8597 | 1.0 | 3.4 | 1.3 | 1.5 | 2.0 | 2.0 | 2.0 | 1.0 |
| HM8625 | 1.3 | 2.8 | 3.2 | 2.5 | 2.3 | 1.3 | 2.0 | 1.0 |
| HM8632 | 1.0 | 3.3 | 3.0 | 3.5 | 2.0 | 1.3 | 2.5 | 2.0 |
| HM8636 | 1.3 | 3.3 | 2.9 | 3.5 | 2.4 | 2.0 | 2.5 | 4.0 |
| L82-4050 | 1.0 | 2.8 | 2.2 | 2.0 | 2.5 | 2.0 | 2.5 | 3.0 |
| L83-3819 | 1.0 | 2.0 | 1.3 | 2.0 | 2.5 | 1.7 | 2.0 | 2.0 |
| L83-3942 | 1.0 | 3.0 | 1.7 | 2.0 | 2.8 | 2.3 | 2.0 | 2.0 |
| L83-7573 | 2.0 | 2.4 | 2.5 | 2.0 | 2.1 | 1.3 | 2.0 | 2.0 |
| L84-6189 | 2.0 | 3.0 | 2.0 | 3.0 | 1.8 | 1.7 | 2.5 | 2.0 |
| LN84-4332 | 1.0 | 2.8 | 2.8 | 2.5 | 2.0 | 2.0 | 2.0 | 3.0 |
| LN84-7577 | 1.0 | 2.6 | 2.9 | 2.0 | 2.6 | 1.3 | 2.5 | 2.0 |
| LN84-15336 | 1.0 | 3.2 | 1.9 | 2.0 | 1.7 | 2.0 | 2.0 | 1.0 |
| LN84-18266 | 1.0 | 3.0 | 1.6 | 2.5 | 1.7 | 1.7 | 2.0 | 2.0 |
| LN84-19560 | 1.0 | 2.7 | 3.0 | 2.0 | 1.5 | 1.7 | 2.0 | 2.0 |
| Md83-2048 | 1.7 | 2.9 | 1.5 | 2.0 | 3.2 | 1.7 | 2.5 | 3.0 |

## UNIFORM TEST III, 1988

### SEED SIZE (g/100)

| Strain | Mean 22 Tests | George-town DE | Middle-town DE | Packwood IA | Stuart IA | Tingley IA | Eldorado IL | Urbana IL |
|---|---|---|---|---|---|---|---|---|
| Cartter (SCN) | 15.8 | | | 17.5 | 14.3 | 16.8 | 13.4 | 15.5 |
| Dunfield | 14.5 | | | 15.0 | 12.9 | 13.7 | 11.8 | 14.0 |
| Flyer (IV) | 13.4 | | | 14.2 | 13.1 | 12.5 | 10.7 | 12.8 |
| Resnik (III) | 13.6 | | | 14.8 | 12.9 | 12.3 | 11.9 | 13.1 |
| Hobbit 87 (dt) | 14.7 | | | 16.2 | 13.2 | 13.8 | 12.3 | 14.4 |
| A86-301024 | 16.6 | | | 17.4 | 15.9 | 16.1 | 12.1 | 16.5 |
| A86-303014 | 16.8 | | | 17.9 | 16.6 | 16.5 | 12.2 | 15.3 |
| C1717 | 13.9 | | | 14.7 | 14.4 | 14.0 | 11.0 | 13.4 |
| C1720 | 15.6 | | | 17.8 | 15.8 | 14.0 | 12.2 | 13.0 |
| HC81-1511 (dt) | 17.0 | | | 17.2 | 15.9 | 16.1 | 14.0 | 14.8 |
| HC82-4965 (dt) | 16.5 | | | 17.6 | 14.4 | 17.1 | 14.3 | 14.7 |
| HC83-4532 (dt) | 16.0 | | | 16.6 | 14.7 | 15.5 | 13.1 | 14.8 |
| HC83-4589 (dt) | 15.6 | | | 17.0 | 14.4 | 14.2 | 11.9 | 13.0 |
| HC84-553-1 (dt) | 14.9 | | | 15.6 | 13.9 | 14.8 | 12.0 | 13.6 |
| HM8597 | 13.1 | | | 14.3 | 13.4 | 12.3 | 10.7 | 11.7 |
| HM8625 | 17.5 | | | 18.3 | 16.1 | 17.0 | 14.4 | 16.1 |
| HM8632 | 17.2 | | | 19.0 | 15.7 | 15.6 | 14.0 | 15.3 |
| HM8636 | 17.4 | | | 19.4 | 17.2 | 16.1 | 14.4 | 17.5 |
| L82-4050 | 17.1 | | | 17.1 | 17.0 | 16.3 | 13.7 | 14.8 |
| L83-3819 | 15.0 | | | 16.0 | 15.1 | 13.5 | 11.6 | 14.7 |
| L83-3942 | 16.5 | | | 20.0 | 15.2 | 14.6 | 14.2 | 16.7 |
| L83-7573 | 14.0 | | | 14.5 | 12.8 | 13.0 | 11.4 | 13.7 |
| L84-6189 | 16.6 | | | 16.8 | 16.2 | 16.0 | 13.6 | 16.0 |
| LN84-4332 | 16.1 | | | 17.7 | 16.3 | 15.8 | 12.9 | 15.0 |
| LN84-7577 | 15.6 | | | 17.2 | 15.1 | 16.3 | 12.3 | 14.2 |
| LN84-15336 | 13.5 | | | 14.9 | 13.2 | 12.8 | 11.2 | 13.0 |
| LN84-18266 | 14.3 | | | 15.8 | 13.1 | 13.9 | 11.7 | 14.0 |
| LN84-19560 | 15.3 | | | 15.9 | 12.8 | 14.7 | 12.0 | 14.4 |
| Md83-2048 | 13.9 | | | 15.3 | 13.9 | 12.5 | 10.7 | 14.7 |

## UNIFORM TEST III, 1988

### SEED SIZE (g/100)

| Strain | Bluff-ton IN | Lafay-ette IN | Vince-nnes IN | Man-hattan KS | Pow-hattan KS | Topeka KS | Lexing-ton KY | Queens-town MD | Colum-bia MO | Mead NE |
|---|---|---|---|---|---|---|---|---|---|---|
| Cartter (SCN) | 15.3 | 14.8 | 15.7 | 16.9 | | 17.3 | 14.3 | 15.8 | -- | 17.5 |
| Dunfield | 13.2 | 14.5 | 15.3 | 16.5 | | 17.7 | 12.3 | 15.0 | 13.2 | 15.2 |
| Flyer (IV) | 11.9 | 12.1 | 12.6 | 12.9 | | 14.8 | 12.6 | 14.4 | 12.1 | 14.2 |
| Resnik (III) | 12.1 | 12.5 | 13.8 | 15.2 | | 14.8 | 12.0 | 14.6 | 13.0 | 15.0 |
| Hobbit 87 (dt) | 13.7 | 12.4 | 15.0 | 16.0 | | 15.2 | 12.2 | 14.5 | 14.4 | 17.7 |
| A86-301024 | 13.8 | 14.1 | 16.9 | 18.2 | | 18.3 | 14.3 | 17.1 | 14.8 | 19.4 |
| A86-303014 | 14.3 | 15.7 | 15.9 | 18.5 | | 18.9 | 13.8 | 17.1 | 14.0 | 18.0 |
| C1717 | 12.3 | 11.4 | 12.6 | 15.3 | | 16.4 | 12.6 | 14.4 | 12.4 | 13.4 |
| C1720 | 13.3 | 14.2 | 15.9 | 17.6 | | 18.1 | 14.1 | 16.6 | 14.0 | 17.5 |
| HC81-1511 (dt) | 14.7 | 14.9 | 18.4 | 18.9 | | 18.2 | 14.9 | 16.3 | 16.6 | 20.2 |
| HC82-4965 (dt) | 14.5 | 14.2 | 17.7 | 19.3 | | 18.6 | 13.5 | 16.2 | 16.6 | 21.4 |
| HC83-4532 (dt) | 13.3 | 14.5 | 17.1 | 19.1 | | 18.4 | 14.4 | 15.9 | 15.5 | 19.5 |
| HC83-4589 (dt) | 13.3 | 13.4 | 14.7 | 18.1 | | 16.3 | 15.9 | 16.1 | 14.7 | 18.0 |
| HC84-553-1 (dt) | 12.8 | 14.6 | 15.2 | 18.6 | | 17.1 | 12.7 | 15.5 | 14.8 | 18.1 |
| HM8597 | 11.3 | 12.0 | 13.6 | 14.2 | | 13.2 | 13.1 | 14.1 | 12.3 | 14.0 |
| HM8625 | 15.1 | 15.0 | 19.2 | 21.2 | | 20.8 | 15.7 | 19.1 | 15.7 | 20.2 |
| HM8632 | 13.1 | 14.4 | 19.0 | 21.2 | | 20.2 | 15.2 | 18.3 | 15.6 | 20.6 |
| HM8636 | 14.7 | 13.9 | 19.7 | 19.8 | | 20.4 | 15.8 | 18.0 | 14.9 | 20.6 |
| L82-4050 | 13.6 | 12.9 | 16.9 | 19.8 | | 20.8 | 13.7 | 18.5 | 16.3 | 20.0 |
| L83-3819 | 12.9 | 12.9 | 13.5 | 17.4 | | 16.7 | 12.9 | 16.6 | 14.3 | 16.3 |
| L83-3942 | 13.5 | 15.9 | 15.5 | 18.7 | | 18.2 | 13.6 | 17.3 | 15.7 | 18.1 |
| L83-7573 | 12.7 | 12.2 | 14.2 | 15.7 | | 15.7 | 11.9 | 15.5 | 12.4 | 15.1 |
| L84-6189 | 14.5 | 14.0 | 15.8 | 17.2 | | 18.6 | 15.3 | 18.1 | 14.1 | 16.9 |
| LN84-4332 | 14.3 | 14.1 | 15.4 | 18.0 | | 19.2 | 14.9 | 18.6 | 14.8 | 17.7 |
| LN84-7577 | 13.4 | 11.7 | 16.1 | 18.0 | | 16.3 | 14.3 | 17.9 | 14.5 | 18.3 |
| LN84-15336 | 10.9 | 11.9 | 14.3 | 14.1 | | 14.6 | 11.6 | 14.5 | 12.6 | 16.0 |
| LN84-18266 | 12.7 | 12.7 | 14.4 | 17.0 | | 16.5 | 11.8 | 14.9 | 13.5 | 15.8 |
| LN84-19560 | 14.1 | 13.8 | 15.6 | 16.8 | | 17.5 | 12.7 | 16.8 | 13.8 | 17.5 |
| Md83-2048 | 11.7 | 12.1 | 13.5 | 15.3 | | 14.8 | 12.5 | 14.4 | 12.1 | 15.1 |

## UNIFORM TEST III, 1988

### SEED SIZE (g/100)

| Strain | Adel-phia NJ | Hoyt-ville OH | Ripley OH | So. Charl-eston OH | Wooster OH | Malden Ont. | Landis-ville PA | Elk Point SD |
|---|---|---|---|---|---|---|---|---|
| Cartter (SCN) | 19.0 | 10.3 | 14.5 | 14.4 | 15.6 | 17.9 | 18.6 | 17.4 |
| Dunfield | 16.0 | 9.1 | 12.6 | 13.5 | 17.4 | 16.8 | 16.5 | 17.1 |
| Flyer (IV) | 17.3 | 8.1 | 12.7 | 12.9 | 14.8 | 16.0 | 19.2 | 13.3 |
| Resnik (III) | 16.7 | 8.6 | 11.4 | 12.7 | 16.0 | 16.1 | 16.9 | 13.1 |
| Hobbit 87 (dt) | 16.0 | 10.0 | 13.9 | 15.0 | 19.2 | 14.8 | 19.8 | 14.5 |
| A86-301024 | 22.7 | 10.6 | 14.4 | 16.2 | 18.2 | 19.7 | 21.5 | 17.8 |
| A86-303014 | 21.3 | 11.6 | 15.6 | 15.9 | 18.3 | 19.7 | 22.2 | 20.4 |
| C1717 | 18.0 | 10.2 | 13.2 | 13.8 | 14.4 | 16.5 | 18.5 | 13.7 |
| C1720 | 19.0 | 9.3 | 13.9 | 15.0 | 16.5 | 18.4 | 19.5 | 16.7 |
| HC81-1511 (dt) | 18.7 | 14.1 | 16.3 | 18.5 | 18.7 | 17.3 | 22.4 | 17.3 |
| HC82-4965 (dt) | 18.3 | 11.2 | 15.6 | 18.1 | 18.0 | 17.3 | 19.6 | 15.6 |
| HC83-4532 (dt) | 17.7 | 11.0 | 14.6 | 16.1 | 16.1 | 16.7 | 20.4 | 16.8 |
| HC83-4589 (dt) | 19.0 | 11.8 | 15.4 | 15.1 | 17.3 | 16.9 | 19.6 | 16.1 |
| HC84-553-1 (dt) | 15.0 | 10.6 | 13.8 | 14.9 | 14.5 | 16.2 | 18.8 | 13.9 |
| HM8597 | 17.3 | 8.1 | 12.1 | 12.7 | 13.3 | 15.4 | 16.8 | 13.2 |
| HM8625 | 21.0 | 12.1 | 14.9 | 17.1 | 16.2 | 20.6 | 20.6 | 18.6 |
| HM8632 | 20.7 | 11.6 | 14.9 | 16.7 | 16.2 | 20.2 | 21.4 | 18.7 |
| HM8636 | 21.3 | 10.5 | 14.9 | 17.1 | 18.2 | 20.2 | 20.6 | 18.5 |
| L82-4050 | 21.3 | 12.8 | 13.4 | 16.7 | 18.9 | 20.1 | 21.6 | 19.4 |
| L83-3819 | 18.7 | 10.1 | 12.9 | 15.9 | 16.5 | 16.6 | 19.0 | 16.1 |
| L83-3942 | 21.0 | 9.3 | 15.0 | 16.4 | 18.8 | 18.4 | 20.2 | 16.7 |
| L83-7573 | 19.0 | 9.9 | 12.5 | 13.6 | 14.6 | 15.9 | 17.2 | 15.1 |
| L84-6189 | 21.7 | 10.0 | 16.6 | 15.0 | 19.4 | 20.1 | 20.7 | 17.5 |
| LN84-4332 | 20.0 | 10.3 | 14.3 | 15.8 | 17.2 | 18.0 | 17.3 | 17.4 |
| LN84-7577 | 19.7 | 10.1 | 13.1 | 14.5 | 16.0 | 17.5 | 18.1 | 18.2 |
| LN84-15336 | 16.3 | 8.6 | 11.9 | 13.3 | 14.9 | 15.1 | 16.8 | 14.7 |
| LN84-18266 | 17.0 | 8.4 | 12.1 | 13.4 | 16.4 | 17.0 | 19.3 | 13.6 |
| LN84-19560 | 19.0 | 10.2 | 13.3 | 14.1 | 16.8 | 17.8 | 21.6 | 16.1 |
| Md83-2048 | 19.0 | 8.4 | 12.8 | 12.9 | 15.4 | 15.5 | 19.0 | 13.8 |

## UNIFORM TEST III, 1988

### PROTEIN (%)

| Strain | Mean 5 Tests | Stuart IA | Urbana IL | Lafayette IN | Manhattan KS | Hoytville OH |
|---|---|---|---|---|---|---|
| Cartter (SCN) | 40.9 | 41.4 | 40.4 | 42.8 | 41.1 | 38.8 |
| Dunfield | 39.9 | 40.8 | 39.4 | 41.4 | 39.7 | 38.2 |
| Flyer (IV) | 41.9 | 41.3 | 42.1 | 43.5 | 41.3 | 41.1 |
| Resnik (III) | 41.8 | 40.8 | 41.7 | 43.5 | 41.8 | 41.0 |
| Hobbit 87 (dt) | 38.1 | 38.2 | 37.5 | 40.6 | 37.3 | 36.9 |
| A86-301024 | 40.0 | 40.1 | 40.1 | 42.3 | 39.5 | 38.2 |
| A86-303014 | 41.0 | 41.1 | 41.4 | 42.7 | 40.5 | 39.2 |
| C1717 | 38.9 | 39.6 | 39.0 | 41.0 | 38.2 | 36.8 |
| C1720 | 40.5 | 39.7 | 40.1 | 41.8 | 40.2 | 40.7 |
| HC81-1511 (dt) | 40.8 | 39.7 | 39.9 | 42.9 | 40.8 | 40.7 |
| HC82-4965 (dt) | 41.0 | 40.9 | 40.2 | 43.0 | 39.7 | 41.0 |
| HC83-4532 (dt) | 40.1 | 39.2 | 39.9 | 41.2 | 40.8 | 39.2 |
| HC83-4589 (dt) | 40.4 | 40.0 | 41.4 | 41.6 | 39.3 | 39.8 |
| HC84-553-1 (dt) | 40.9 | 40.9 | 39.9 | 42.0 | 40.7 | 40.8 |
| HM8597 | 40.6 | 38.8 | 40.8 | 42.3 | 40.7 | 40.3 |
| HM8625 | 41.3 | 41.8 | 41.4 | 43.1 | 40.4 | 39.8 |
| HM8632 | 41.2 | 40.8 | 41.0 | 43.8 | 41.0 | 39.5 |
| HM8636 | 40.5 | 40.4 | 41.9 | 41.4 | 39.6 | 39.2 |
| L82-4050 | 39.0 | 39.6 | 38.8 | 40.2 | 37.9 | 38.6 |
| L83-3819 | 40.0 | 40.1 | 40.5 | 40.9 | 40.8 | 37.8 |
| L83-3942 | 40.3 | 40.4 | 39.9 | 41.8 | 39.7 | 39.5 |
| L83-7573 | 40.1 | 39.8 | 40.8 | 41.9 | 39.9 | 38.3 |
| L84-6189 | 42.0 | 41.3 | 41.9 | 43.6 | 41.6 | 41.7 |
| LN84-4332 | 40.3 | 40.2 | 39.9 | 43.2 | 40.2 | 38.0 |
| LN84-7577 | 40.8 | 40.2 | 40.3 | 42.5 | 39.8 | 41.3 |
| LN84-15336 | 41.1 | 39.8 | 41.4 | 43.1 | 40.7 | 40.4 |
| LN84-18266 | 39.8 | 39.2 | 39.4 | 43.2 | 39.0 | 38.3 |
| LN84-19560 | 41.3 | 41.3 | 41.5 | 43.0 | 41.1 | 39.7 |
| Md83-2048 | 40.0 | 40.0 | 39.8 | 41.8 | 39.7 | 38.7 |

## UNIFORM TEST III, 1988

### OIL (%)

| Strain | Mean 5 Tests | Stuart IA | Urbana IL | Lafayette IN | Manhattan KS | Hoytville OH |
|---|---|---|---|---|---|---|
| Cartter (SCN) | 22.0 | 22.3 | 22.8 | 21.2 | 21.1 | 22.4 |
| Dunfield | 21.9 | 22.8 | 22.3 | 20.8 | 21.5 | 22.0 |
| Flyer (IV) | 20.4 | 20.9 | 20.4 | 19.5 | 21.1 | 20.2 |
| Resnik (III) | 20.9 | 21.4 | 20.7 | 20.0 | 21.0 | 21.2 |
| Hobbit 87 (dt) | 23.3 | 23.3 | 23.9 | 23.0 | 23.1 | 23.1 |
| A86-301024 | 21.1 | 21.7 | 21.4 | 20.0 | 20.9 | 21.6 |
| A86-303014 | 20.9 | 21.6 | 20.6 | 19.9 | 20.6 | 21.7 |
| C1717 | 22.5 | 23.9 | 22.4 | 21.3 | 22.1 | 22.8 |
| C1720 | 21.1 | 21.5 | 21.0 | 20.4 | 21.1 | 21.4 |
| HC81-1511 (dt) | 22.4 | 22.8 | 22.7 | 21.8 | 22.0 | 22.8 |
| HC82-4965 (dt) | 22.3 | 21.6 | 23.2 | 22.5 | 22.5 | 21.9 |
| HC83-4532 (dt) | 22.5 | 23.7 | 22.6 | 21.8 | 22.0 | 22.4 |
| HC83-4589 (dt) | 22.0 | 23.0 | 21.5 | 21.2 | 22.5 | 22.0 |
| HC84-553-1 (dt) | 22.4 | 23.5 | 23.1 | 21.5 | 22.0 | 22.0 |
| HM8597 | 21.1 | 22.1 | 21.3 | 20.0 | 20.9 | 21.3 |
| HM8625 | 21.9 | 21.4 | 22.5 | 21.1 | 21.5 | 22.8 |
| HM8632 | 21.6 | 21.4 | 21.8 | 21.4 | 21.6 | 21.7 |
| HM8636 | 22.2 | 22.7 | 21.9 | 20.8 | 22.2 | 23.4 |
| L82-4050 | 22.1 | 22.9 | 22.6 | 21.4 | 22.2 | 21.3 |
| L83-3819 | 20.3 | 21.0 | 19.9 | 19.3 | 20.3 | 20.9 |
| L83-3942 | 21.5 | 21.4 | 21.5 | 20.9 | 22.1 | 21.4 |
| L83-7573 | 20.4 | 19.9 | 19.9 | 20.8 | 20.0 | 21.4 |
| L84-6189 | 20.9 | 21.5 | 20.9 | 20.9 | 20.4 | 20.8 |
| LN84-4332 | 22.2 | 22.9 | 22.3 | 20.9 | 21.8 | 23.1 |
| LN84-7577 | 22.0 | 23.6 | 22.0 | 21.0 | 21.5 | 22.1 |
| LN84-15336 | 21.1 | 22.1 | 20.9 | 20.1 | 20.9 | 21.3 |
| LN84-18266 | 22.1 | 22.6 | 22.7 | 20.1 | 22.4 | 22.9 |
| LN84-19560 | 21.6 | 21.5 | 21.4 | 20.8 | 21.2 | 23.1 |
| Md83-2048 | 21.5 | 21.6 | 21.4 | 21.9 | 21.4 | 21.4 |

## UNIFORM PRELIMINARY TEST IIIA, 1988

| Strain | Parentage | Generation Composited | Unique Traits |
|---|---|---|---|
| Century 84 (II) | Century (5) x Williams 82 | BC4 F3 | Rps1-k |
| Flyer (IV) | Asgrow A3127 (4) x Williams 82 | BC3 F2 | Rps1-k |
| Resnik (III) | Asgrow A3127 (4) x Williams 82 | BC3 F2 | Rps1-k |
| A87-296004 | A80-344003 x Asgrow A3659 | F5 | BSR Resis. |
| A87-296013 | Harper x A80-346029 | F5 | BSR Resis. |
| A87-296031 | Harper x HW8234 | F5 | |
| A87-299028 | Harper x A81-157024 | F5 | |
| A87-395027 | A80-244003 x Asgrow A3659 | F5 | |
| A87-395028 | HW8234 x A80-244003 | F5 | |
| A87-396020 | Harper x A80-346029 | F5 | BSR Resis. |
| A87-396023 | Harper x A80-346029 | F5 | BSR Resis. ? |
| A87-398007 | A80-244003 x Harper | F5 | |
| A87-398025 | Harper x A81-157024 | F5 | |
| K81-21-51 | Cumberland x DeSoto | F5 | |
| K81-21-222 | Cumberland x DeSoto | F5 | |
| K82-1-9 | Asgrow A4268 x Asgrow A3127 | F5 | |
| K82-1-93 | Asgrow A4268 x Asgrow A3127 | F5 | |
| LN83-3824-1 | Fayette x Hardin | F10 | SCN 3,4 Resis. |
| LN84-2418 | A78-227015 x Asgrow A3127 | F5 | |
| LN84-3321 | HW79149 x HW79015 | F5 | ~~SCN 3,4~~ Resis. PR 1,3 |
| LN84-3542 | HW79149 x HW79015 | F5 | PR 1,3 Resis. |
| LN84-7414 | Hack x Elgin | F5 | Rps1 |
| LN84-7820 | Hack x HW79015 | F5 | rxp |
| LN84-11299 | Williams 82 x LN80-8309 | F5 | Rps1 ? |
| LN84-15502 | LN80-9447 x Asgrow A3127 | F5 | rxp |
| LN84-15544 | LN80-9447 x Asgrow A3127 | F5 | rxp |
| LN85-2972 | A8 x LN80-7532 | F5 | Rps1, BSR Resis. |
| LN85-3036 | A8 x LN80-7532 | F5 | Rps1, BSR Resis. |
| LN85-3114 | A8 x LN80-7532 | F5 | Rps1, BSR Resis. |
| LN85-3402 | A8 x LN80-10398 | F5 | Rps1, BSR Resis. |
| LN85-7389 | LNX8138 x A80-244003 | F5 | Rps1 |
| U85-71073 | Platte x Asgrow A3127 | F5 | |
| U85-71074 | Platte x Asgrow A3127 | F5 | |
| U85-71084 | Platte x Asgrow A3127 | F5 | |
| U85-71088 | Platte x Asgrow A3127 | F5 | |
| U85-74089 | Platte x Asgrow A3127 | F5 | |

# UNIFORM PRELIMINARY TEST IIIA, 1988

## DESCRIPTIVE AND DISEASE DATA

| Strain | Descriptive Code | Chlorosis Score Ames | Shattering Score Manhattan | BSR-Ames Plant n % | BSR-Ames Stem n % |
|---|---|---|---|---|---|
| Century 84 (II) | PTBSYBl | 2.5 | 2 | 90 | 54.6 |
| Flyer (IV) | PTTSYBl | 2.7 | 1 | 100 | 66.8 |
| Resnik (III) | PTTSYBl | 3.3 | 1 | 100 | 59.6 |
| A87-296004 | PTBDYBf | 2.2 | 1 | 100 | 48.1 |
| A87-296013 | P+WTBDYBl | 3.7 | 2 | 90 | 28.8 |
| A87-296031 | PTBSYBl | 3.7 | 1 | 100 | 67.0 |
| A87-299028 | PTBSYBl | 3.8 | 1 | 100 | 67.3 |
| A87-395027 | PTBSYBl | 4.0 | 1 | 90 | 47.2 |
| A87-395028 | PTBSYBr | 4.0 | 2 | 100 | 66.5 |
| A87-396020 | PTBSYBl | 3.0 | 2 | 100 | 83.3 |
| A87-396023 | WTBDYBf | 3.0 | 1 | 100 | 95.0 |
| A87-398007 | PTBSYBl | 3.8 | 2 | 100 | 78.0 |
| A87-398025 | WGBDYY | 1.5 | 1 | 100 | 75.0 |
| K81-21-51 | PTBDYBl | 2.8 | 1 | 100 | 96.7 |
| K81-21-222 | PTBDYBl | 3.8 | 1 | 100 | 97.1 |
| K82-1-9 | PTT(Treated) | 3.2 | 1 | 100 | 84.1 |
| K82-1-93 | P+WTTDYBl | 3.7 | 1 | 100 | 96.0 |
| LN83-3824-1 | WGBDYY | 3.3 | 2 | 100 | 68.7 |
| LN84-2418 | PTTDYBf | 3.0 | 1 | 90 | 50.0 |
| LN84-3321 | PGBDYBf | 3.3 | 1 | 100 | 67.4 |
| LN84-3542 | PGBDYBf | 3.7 | 1 | 100 | 81.0 |
| LN84-7414 | PGTSYIb | 3.5 | 1 | 100 | 88.9 |
| LN84-7820 | P+WGBSYIb+Bf | 4.0 | 2 | 100 | 80.2 |
| LN84-11299 | WTBDYBl | 3.0 | 1 | 100 | 79.0 |
| LN84-15502 | PTTDYBl | 3.3 | 1 | 100 | 78.3 |
| LN84-15544 | PTBDYBl | 2.7 | 1 | 100 | 85.3 |
| LN85-2972 | WTBSYBr | 2.7 | 1 | 100 | 70.4 |
| LN85-3036 | WTBSYBl | 2.8 | 1 | 100 | 82.7 |
| LN85-3114 | PTBSYBl+Br | 2.2 | 1 | 100 | 62.6 |
| LN85-3402 | WTBSYBr | 2.3 | 1 | 100 | 52.4 |
| LN85-7389 | PGTSYIb | 3.3 | 1 | 100 | 77.5 |
| U85-71073 | PGTDYBf | 2.2 | 1 | 100 | 81.6 |
| U85-71074 | PGBSYY | 3.3 | 1 | 100 | 96.1 |
| U85-71084 | PTBSYBl | 3.3 | 1 | 100 | 76.2 |
| U85-71088 | PGTDYIb | 2.0 | 1 | 100 | 69.9 |
| U85-74089 | PGTSYIb | 2.0 | 1 | 100 | 82.0 |

## UNIFORM PRELIMINARY TEST IIIA, 1988

### DISEASE DATA

| Strain | PR Castalia Phyto. Tolerance | PR Ames Race 4 Reaction | PR Urbana Race 1 | PR Lafayette Race 7 | PS Lafayette art | PSB Lafayette n % | SMV Lafayette a Score |
|---|---|---|---|---|---|---|---|
| Century 84 (II) | 3.8 | R | R | R | | | |
| Flyer (IV) | 3.3 | R | H | H | | | |
| Resnik (III) | 3.5 | R | R | R | | | |
| A87-296004 | 4.7 | S | R | S | | | |
| A87-296013 | 4.5 | S | S | S | | | |
| A87-296031 | 4.5 | H | R | S | | | |
| A87-299028 | 4.0 | S | S | S | | | |
| A87-395027 | 4.7 | S | S | S | | | |
| A87-395028 | 4.4 | S | S | S | | | |
| A87-396020 | 4.0 | S | S | S | | | |
| A87-396023 | 4.3 | S | S | S | | | |
| A87-398007 | 3.8 | S | S | S | | | |
| A87-398025 | 5.0 | S | S | S | | | |
| K81-21-51 | 4.0 | S | S | S | | | |
| K81-21-222 | 3.3 | S | S | S | | | |
| K82-1-9 | 3.7 | S | S | S | | | |
| K82-1-93 | 5.0 | S | S | S | | | |
| LN83-3824-1 | 3.8 | S | S | S | | | |
| LN84-2418 | 4.3 | S | S | S | | | |
| LN84-3321 | 3.5 | S | R | R | | | |
| LN84-3542 | 4.5 | S | R | R | | | |
| LN84-7414 | 4.0 | S | R | S | | | |
| LN84-7820 | 4.0 | S | S | S | | | |
| LN84-11299 | 4.5 | R | R | R | | | |
| LN84-15502 | 5.0 | S | S | S | | | |
| LN84-15544 | 4.8 | S | S | S | | | |
| LN85-2972 | 5.0 | S | R | S | | | |
| LN85-3036 | 4.0 | S | R | S | | | |
| LN85-3114 | 5.3 | S | R | S | | | |
| LN85-3402 | 5.0 | S | R | S | | | |
| LN85-7389 | 4.3 | S | R | S | | | |
| U85-71073 | 4.5 | S | R | S | | | |
| U85-71074 | 4.3 | S | R | S | | | |
| U85-71084 | 6.0 | S | S | S | | | |
| U85-71088 | 5.0 | S | H | S | | | |
| U85-74089 | 4.0 | S | R | S | | | |

# UNIFORM PRELIMINARY TEST IIIA, 1988

## REGIONAL SUMMARY

| No. of Tests<br>Strain | Yield<br>8<br>bu/a | Rank<br>8<br>No. | Maturity<br>6<br>Date | Lodging<br>7<br>Score | Plant Height<br>7<br>In. | Seed Quality<br>8<br>Score | Seed Size<br>8<br>g/100 | Composition<br>Protein<br>5<br>% | <br>Oil<br>5<br>% |
|---|---|---|---|---|---|---|---|---|---|
| Century 84 (II) | 36.8 | 35 | -11.2 | 1.3 | 32 | 2.6 | 15.2 | 43.0 | 20.1 |
| Flyer (IV) | 41.2 | 20 | 2.7 | 1.4 | 35 | 2.2 | 13.0 | 42.6 | 19.9 |
| Resnik (III) | 45.1 | 1 | 09/20.7* | 1.3 | 34 | 2.0 | 13.5 | 42.1 | 20.7 |
| A87-296004 | 40.7 | 24 | -0.8 | 1.3 | 32 | 2.5 | 15.9 | 42.2 | 20.8 |
| A87-296013 | 40.4 | 27 | -2.3 | 1.2 | 32 | 2.5 | 14.6 | 40.4 | 21.5 |
| A87-296031 | 38.8 | 30 | -1.5 | 1.1 | 35 | 2.4 | 16.5 | 42.6 | 20.7 |
| A87-299028 | 41.4 | 18 | -4.8 | 1.3 | 30 | 2.6 | 14.0 | 40.7 | 21.2 |
| A87-395027 | 41.1 | 22 | 2.3 | 1.7 | 41 | 2.1 | 13.9 | 40.4 | 21.1 |
| A87-395028 | 40.1 | 28 | 3.0 | 1.8 | 40 | 2.1 | 14.9 | 40.2 | 21.0 |
| A87-396020 | 43.5 | 7 | 1.2 | 1.3 | 33 | 2.5 | 16.2 | 40.9 | 20.9 |
| A87-396023 | 43.2 | 9 | 3.3 | 1.8 | 36 | 2.4 | 15.9 | 40.7 | 20.8 |
| A87-398007 | 42.3 | 11 | 3.3 | 1.3 | 38 | 2.7 | 16.8 | 41.7 | 20.2 |
| A87-398025 | 42.1 | 12 | 0.0 | 1.4 | 36 | 2.4 | 14.5 | 40.8 | 20.4 |
| K81-21-51 | 41.3 | 19 | 4.7 | 1.7 | 40 | 2.3 | 15.1 | 40.7 | 20.9 |
| K81-21-222 | 41.5 | 16 | 4.7 | 1.8 | 40 | 2.8 | 16.3 | 41.8 | 20.6 |
| K82-1-9 | 39.4 | 29 | 4.0 | 1.3 | 34 | 2.2 | 12.9 | 42.0 | 20.0 |
| K82-1-93 | 40.5 | 26 | 3.7 | 1.3 | 38 | 2.1 | 13.5 | 41.9 | 20.2 |
| LN83-3824-1 | 40.6 | 25 | -3.7 | 1.9 | 40 | 2.6 | 12.3 | 40.8 | 20.5 |
| LN84-2418 | 44.6 | 2 | -3.0 | 1.4 | 35 | 2.3 | 13.3 | 40.2 | 21.3 |
| LN84-3321 | 43.6 | 6 | 0.3 | 1.9 | 38 | 2.2 | 13.1 | 40.4 | 21.0 |
| LN84-3542 | 41.5 | 16 | -6.7 | 1.7 | 37 | 2.5 | 13.4 | 40.3 | 21.0 |
| LN84-7414 | 41.9 | 13 | -5.2 | 1.7 | 39 | 2.8 | 15.1 | 40.3 | 21.1 |
| LN84-7820 | 38.5 | 31 | -1.2 | 1.3 | 38 | 2.6 | 15.2 | 40.5 | 21.6 |
| LN84-11299 | 36.0 | 36 | -6.8 | 1.7 | 36 | 2.2 | 16.1 | 41.1 | 21.2 |
| LN84-15502 | 41.6 | 14 | -2.2 | 1.2 | 33 | 2.7 | 13.7 | 40.4 | 21.0 |
| LN84-15544 | 38.0 | 33 | -1.8 | 1.5 | 35 | 2.2 | 12.7 | 42.3 | 19.8 |
| LN85-2972 | 41.0 | 23 | 3.0 | 1.3 | 37 | 2.2 | 14.2 | 43.1 | 19.9 |
| LN85-3036 | 43.5 | 7 | 5.5 | 1.6 | 38 | 2.6 | 15.9 | 41.3 | 20.7 |
| LN85-3114 | 41.2 | 20 | 2.5 | 1.4 | 37 | 2.6 | 14.2 | 42.0 | 20.0 |
| LN85-3402 | 44.1 | 4 | 6.0 | 1.3 | 36 | 2.7 | 15.7 | 41.1 | 20.3 |
| LN85-7389 | 38.2 | 32 | -6.8 | 1.2 | 31 | 2.2 | 13.4 | 41.5 | 20.3 |
| U85-71073 | 37.2 | 34 | -0.7 | 1.5 | 39 | 2.3 | 13.0 | 41.6 | 20.7 |
| U85-71074 | 43.0 | 10 | 0.3 | 1.4 | 36 | 2.5 | 13.4 | 41.8 | 20.6 |
| U85-71084 | 43.8 | 5 | 1.5 | 1.4 | 39 | 2.7 | 13.3 | 40.5 | 21.0 |
| U85-71088 | 41.6 | 14 | 3.2 | 1.3 | 37 | 2.4 | 12.9 | 42.1 | 20.3 |
| U85-74089 | 44.4 | 3 | -2.2 | 1.3 | 34 | 2.2 | 12.7 | 41.2 | 20.9 |

* 133.0 Days after planting

## UNIFORM PRELIMINARY TEST IIIA, 1988

### YIELD (bu/a)

| Strain | Mean 8 Tests | Packwood IA | Stuart IA | Urbana IL | Lafayette IN | Manhattan KS | Mead NE | Hoytville OH | So. Charleston OH |
|---|---|---|---|---|---|---|---|---|---|
| Century 84 (II) | 36.8 | 16.5 | 29.9 | 20.6 | 35.2 | 58.7 | 42.0 | 34.0 | 57.5 |
| Flyer (IV) | 41.2 | 28.5 | 34.4 | 16.8 | 33.7 | 67.8 | 53.6 | 31.6 | 63.5 |
| Resnik (III) | 45.1 | 35.5 | 35.2 | 29.4 | 37.4 | 69.1 | 49.7 | 34.9 | 69.6 |
| A87-296004 | 40.7 | 29.4 | 31.3 | 23.2 | 44.1 | 58.4 | 41.2 | 38.4 | 59.3 |
| A87-296013 | 40.4 | 29.1 | 30.2 | 26.7 | 38.7 | 62.2 | 46.3 | 30.7 | 59.1 |
| A87-296031 | 38.8 | 28.0 | 30.0 | 28.4 | 32.3 | 57.7 | 46.6 | 29.7 | 57.8 |
| A87-299028 | 41.4 | 27.8 | 27.9 | 31.5 | 27.6 | 64.8 | 54.8 | 35.6 | 60.8 |
| A87-395027 | 41.1 | 26.1 | 34.6 | 34.4 | 29.1 | 57.8 | 46.8 | 42.0 | 58.3 |
| A87-395028 | 40.1 | 29.0 | 31.3 | 31.2 | 35.4 | 56.7 | 43.4 | 34.1 | 59.9 |
| A87-396020 | 43.5 | 30.6 | 31.0 | 41.1 | 36.5 | 65.6 | 56.1 | 30.2 | 56.7 |
| A87-396023 | 43.2 | 30.1 | 33.6 | 44.6 | 37.6 | 62.9 | 46.3 | 35.2 | 55.2 |
| A87-398007 | 42.3 | 25.3 | 33.9 | 39.1 | 39.7 | 58.8 | 48.5 | 31.3 | 61.5 |
| A87-398025 | 42.1 | 27.7 | 32.5 | 29.4 | 30.4 | 66.8 | 43.7 | 42.8 | 63.7 |
| K81-21-51 | 41.3 | 29.1 | 32.8 | 38.5 | 36.8 | 62.7 | 41.8 | 31.2 | 57.7 |
| K81-21-222 | 41.5 | 29.6 | 31.0 | 38.6 | 35.6 | 60.3 | 51.4 | 29.4 | 56.1 |
| K82-1-9 | 39.4 | 19.1 | 30.1 | 34.5 | 28.9 | 63.0 | 50.2 | 34.1 | 55.2 |
| K82-1-93 | 40.5 | 29.4 | 34.4 | 41.6 | 34.8 | 59.2 | 45.0 | 24.5 | 55.2 |
| LN83-3824-1 | 40.6 | 29.0 | 29.1 | 36.8 | 39.5 | 61.9 | 43.9 | 20.8 | 63.8 |
| LN84-2418 | 44.6 | 31.3 | 32.9 | 28.0 | 32.3 | 68.9 | 55.9 | 41.0 | 66.7 |
| LN84-3321 | 43.6 | 25.9 | 31.6 | 36.5 | 38.1 | 68.4 | 58.5 | 30.3 | 59.7 |
| LN84-3542 | 41.5 | 29.9 | 25.2 | 27.1 | 40.2 | 67.2 | 49.4 | 33.2 | 60.0 |
| LN84-7414 | 41.9 | 31.1 | 29.1 | 31.1 | 35.0 | 63.6 | 51.8 | 34.6 | 58.9 |
| LN84-7820 | 38.5 | 27.2 | 30.5 | 29.7 | 30.1 | 59.8 | 56.2 | 14.4 | 60.4 |
| LN84-11299 | 36.0 | 28.3 | 28.5 | 23.7 | 35.5 | 59.3 | 39.5 | 20.2 | 53.3 |
| LN84-15502 | 41.6 | 31.0 | 31.3 | 22.7 | 36.9 | 66.2 | 49.9 | 33.1 | 61.5 |
| LN84-15544 | 38.0 | 25.4 | 31.0 | 15.8 | 39.6 | 59.7 | 50.6 | 17.6 | 64.1 |
| LN85-2972 | 41.0 | 29.4 | 35.9 | 25.3 | 40.0 | 54.2 | 51.6 | 34.3 | 57.5 |
| LN85-3036 | 43.5 | 31.5 | 37.0 | 36.8 | 41.1 | 62.9 | 46.7 | 33.0 | 58.7 |
| LN85-3114 | 41.2 | 26.6 | 36.7 | 36.5 | 36.2 | 61.7 | 47.0 | 25.9 | 59.2 |
| LN85-3402 | 44.1 | 29.2 | 38.0 | 33.3 | 40.4 | 61.2 | 45.6 | 47.6 | 57.5 |
| LN85-7389 | 38.2 | 26.1 | 30.7 | 15.6 | 28.6 | 66.2 | 42.4 | 37.1 | 58.9 |
| U85-71073 | 37.2 | 29.0 | 32.9 | 15.9 | 31.9 | 59.5 | 45.8 | 27.4 | 54.9 |
| U85-71074 | 43.0 | 33.5 | 35.9 | 28.1 | 34.2 | 61.7 | 52.0 | 38.9 | 60.0 |
| U85-71084 | 43.8 | 26.5 | 31.7 | 35.9 | 39.5 | 67.3 | 52.6 | 34.8 | 62.1 |
| U85-71088 | 41.6 | 26.9 | 33.4 | 28.8 | 37.1 | 62.9 | 55.4 | 30.5 | 58.0 |
| U85-74089 | 44.4 | 32.3 | 36.2 | 29.0 | 35.9 | 66.7 | 55.4 | 39.2 | 60.4 |
| C.V. (%) | | 9.9 | 8.4 | 36.1 | 13.7 | 5.1 | 10.7 | 20.8 | 5.5 |
| L.S.D. (5%) | | 5.5 | 5.3 | ns | 10.0 | 6.5 | 10.6 | 13.5 | 6.7 |
| Row Sp. (In.) | | 27 | 27 | 30 | 24 | 30 | 30 | 15 | 7 |
| Rows/Plot | | 4 | 4 | 4 | 4 | 4 | 2 | 5 | 8 |
| Reps | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |

# UNIFORM PRELIMINARY TEST IIIA, 1988

## YIELD RANK

| Strain | Yield Rank | Pack-wood IA | Stuart IA | Urbana IL | Lafay-ette IN | Man-hattan KS | Mead NE | Hoyt-ville OH | So. Charl-eston OH |
|---|---|---|---|---|---|---|---|---|---|
| Century 84 (II) | 35 | 36 | 31 | 32 | 23 | 31 | 33 | 17 | 27 |
| Flyer (IV) | 20 | 21 | 9 | 33 | 27 | 4 | 8 | 21 | 6 |
| Resnik (III) | 1 | 1 | 7 | 19 | 13 | 1 | 17 | 11 | 1 |
| A87-296004 | 24 | 12 | 20 | 30 | 1 | 32 | 35 | 7 | 17 |
| A87-296013 | 27 | 16 | 28 | 27 | 10 | 19 | 24 | 24 | 19 |
| A87-296031 | 30 | 23 | 30 | 23 | 28 | 34 | 23 | 28 | 25 |
| A87-299028 | 18 | 24 | 35 | 15 | 36 | 12 | 7 | 9 | 10 |
| A87-395027 | 22 | 30 | 8 | 13 | 33 | 33 | 21 | 3 | 23 |
| A87-395028 | 28 | 18 | 20 | 16 | 22 | 35 | 31 | 15 | 15 |
| A87-396020 | 7 | 8 | 23 | 3 | 17 | 11 | 3 | 27 | 30 |
| A87-396023 | 9 | 9 | 12 | 1 | 12 | 15 | 24 | 10 | 32 |
| A87-398007 | 11 | 34 | 11 | 4 | 6 | 30 | 19 | 22 | 8 |
| A87-398025 | 12 | 25 | 17 | 19 | 31 | 7 | 30 | 2 | 5 |
| K81-21-51 | 19 | 16 | 16 | 6 | 16 | 18 | 34 | 23 | 26 |
| K81-21-222 | 16 | 11 | 23 | 5 | 20 | 24 | 13 | 29 | 31 |
| K82-1-9 | 29 | 35 | 29 | 12 | 34 | 14 | 15 | 15 | 32 |
| K82-1-93 | 26 | 12 | 9 | 2 | 25 | 29 | 28 | 32 | 32 |
| LN83-3824-1 | 25 | 18 | 32 | 7 | 8 | 20 | 29 | 33 | 4 |
| LN84-2418 | 2 | 5 | 14 | 25 | 28 | 2 | 4 | 4 | 2 |
| LN84-3321 | 6 | 32 | 19 | 10 | 11 | 3 | 1 | 26 | 16 |
| LN84-3542 | 16 | 10 | 36 | 26 | 4 | 6 | 18 | 18 | 13 |
| LN84-7414 | 13 | 6 | 32 | 17 | 24 | 13 | 11 | 13 | 20 |
| LN84-7820 | 31 | 26 | 27 | 18 | 32 | 25 | 2 | 36 | 11 |
| LN84-11299 | 36 | 22 | 34 | 29 | 21 | 28 | 36 | 34 | 36 |
| LN84-15502 | 14 | 7 | 20 | 31 | 15 | 9 | 16 | 19 | 8 |
| LN84-15544 | 33 | 33 | 23 | 35 | 7 | 26 | 14 | 35 | 3 |
| LN85-2972 | 23 | 12 | 5 | 28 | 5 | 36 | 12 | 14 | 27 |
| LN85-3036 | 7 | 4 | 2 | 7 | 2 | 15 | 22 | 20 | 22 |
| LN85-3114 | 20 | 28 | 3 | 9 | 18 | 21 | 20 | 31 | 18 |
| LN85-3402 | 4 | 15 | 1 | 14 | 3 | 23 | 27 | 1 | 27 |
| LN85-7389 | 32 | 30 | 26 | 36 | 35 | 9 | 32 | 8 | 20 |
| U85-71073 | 34 | 18 | 14 | 34 | 30 | 27 | 26 | 30 | 35 |
| U85-71074 | 10 | 2 | 5 | 24 | 26 | 21 | 10 | 6 | 13 |
| U85-71084 | 5 | 29 | 18 | 11 | 9 | 5 | 9 | 12 | 7 |
| U85-71088 | 14 | 27 | 13 | 22 | 14 | 15 | 5 | 25 | 24 |
| U85-74089 | 3 | 3 | 4 | 21 | 19 | 8 | 5 | 5 | 11 |

## UNIFORM PRELIMINARY TEST IIIA, 1988

### MATURITY (date)

| Strain | Mean 6 Tests | Pack-wood IA | Stuart IA | Urbana IL | Lafay-ette IN | Man-hattan KS | Mead NE | Hoyt-ville OH | So. Charl-eston OH |
|---|---|---|---|---|---|---|---|---|---|
| Century 84 (II) | -11.2 | | -14 | -16 | -7 | -6 | -12 | | -12 |
| Flyer (IV) | 2.7 | | 2 | -3 | 7 | 4 | 3 | | 3 |
| Resnik (III) | 09/20.7 | | 09/12 | 09/19 | 09/18 | 09/24 | 09/24 | | 09/27 |
| A87-296004 | -0.8 | | -1 | -9 | 6 | 0 | -1 | | 0 |
| A87-296013 | -2.3 | | -4 | -8 | 2 | 0 | -1 | | -3 |
| A87-296031 | -1.5 | | -2 | -7 | 2 | 1 | -1 | | -2 |
| A87-299028 | -4.8 | | -8 | -8 | -1 | -2 | -6 | | -4 |
| A87-395027 | 2.3 | | 2 | 7 | 0 | 2 | 2 | | 1 |
| A87-395028 | 3.0 | | 2 | 5 | 2 | 4 | 3 | | 2 |
| A87-396020 | 1.2 | | 0 | 5 | -1 | 3 | 2 | | -2 |
| A87-396023 | 3.3 | | 2 | 6 | 2 | 5 | 3 | | 2 |
| A87-398007 | 3.3 | | 1 | 9 | 5 | 2 | 2 | | 1 |
| A87-398025 | 0.0 | | 1 | 0 | -2 | 2 | -2 | | 1 |
| K81-21-51 | 4.7 | | 3 | 9 | 7 | 5 | 1 | | 3 |
| K81-21-222 | 4.7 | | 1 | 10 | 6 | 6 | 3 | | 2 |
| K82-1-9 | 4.0 | | 0 | 10 | 1 | 2 | 8 | | 3 |
| K82-1-93 | 3.7 | | 2 | 8 | 6 | 3 | 2 | | 1 |
| LN83-3824-1 | -3.7 | | -12 | -3 | 3 | 1 | -4 | | -7 |
| LN84-2418 | -3.0 | | -2 | -9 | -2 | 0 | -1 | | -4 |
| LN84-3321 | 0.3 | | -1 | -1 | -1 | 3 | 2 | | 0 |
| LN84-3542 | -6.7 | | -14 | -11 | -4 | 0 | -6 | | -5 |
| LN84-7414 | -5.2 | | -6 | -5 | -5 | -2 | -5 | | -8 |
| LN84-7820 | -1.2 | | -2 | -4 | -4 | 3 | 1 | | -1 |
| LN84-11299 | -6.8 | | -8 | -11 | -5 | -3 | -6 | | -8 |
| LN84-15502 | -2.2 | | -2 | -10 | 0 | -1 | 1 | | -1 |
| LN84-15544 | -1.8 | | -4 | -9 | 2 | 2 | 0 | | -2 |
| LN85-2972 | 3.0 | | 2 | -1 | 4 | 4 | 7 | | 2 |
| LN85-3036 | 5.5 | | 6 | 5 | 7 | 6 | 5 | | 4 |
| LN85-3114 | 2.5 | | 4 | 1 | 1 | 4 | 3 | | 2 |
| LN85-3402 | 6.0 | | 4 | 5 | 7 | 6 | 7 | | 7 |
| LN85-7389 | -6.8 | | -4 | -16 | -7 | -3 | -6 | | -5 |
| U85-71073 | -0.7 | | 2 | -13 | -1 | 4 | 2 | | 2 |
| U85-71074 | 0.3 | | 1 | 0 | -1 | 3 | 0 | | -1 |
| U85-71084 | 1.5 | | 1 | 1 | 4 | 3 | 0 | | 0 |
| U85-71088 | 3.2 | | 3 | 6 | 2 | 5 | 1 | | 2 |
| U85-74089 | -2.2 | | 0 | -6 | -4 | 1 | 0 | | -4 |
| Date Planted | 05/10.7 | | 05/10 | 05/03 | 05/10 | 05/27 | 05/11 | | 05/03 |
| Days to Mature | 133 | | 125 | 139 | 131 | 120 | 136 | | 147 |

## UNIFORM PRELIMINARY TEST IIIA, 1988

### LODGING (score)

| Strain | Mean 7 Tests | Pack-wood IA | Stuart IA | Urbana IL | Lafay-ette IN | Man-hattan KS | Mead NE | Hoyt-ville OH | So. Charl-eston OH |
|---|---|---|---|---|---|---|---|---|---|
| Century 84 (II) | 1.3 | 1.0 | 1.0 | 1.0 | 1.0 | 1.5 | 1.0 | | 2.5 |
| Flyer (IV) | 1.4 | 1.1 | 1.0 | 1.0 | 1.0 | 2.5 | 1.0 | | 2.0 |
| Resnik (III) | 1.3 | 1.1 | 1.1 | 1.0 | 1.0 | 2.0 | 1.0 | | 2.0 |
| A87-296004 | 1.3 | 1.0 | 1.0 | 1.0 | 1.0 | 2.0 | 1.0 | | 1.8 |
| A87-296013 | 1.2 | 1.0 | 1.0 | 1.0 | 1.0 | 2.0 | 1.0 | | 1.5 |
| A87-296031 | 1.1 | 1.0 | 1.0 | 1.0 | 1.0 | 1.5 | 1.0 | | 1.5 |
| A87-299028 | 1.3 | 1.0 | 1.0 | 1.0 | 1.0 | 2.0 | 1.0 | | 2.0 |
| A87-395027 | 1.7 | 1.2 | 1.2 | 1.0 | 2.0 | 3.0 | 1.0 | | 2.5 |
| A87-395028 | 1.8 | 1.1 | 1.1 | 1.5 | 2.0 | 3.0 | 1.0 | | 3.0 |
| A87-396020 | 1.3 | 1.0 | 1.0 | 1.0 | 1.0 | 2.0 | 1.0 | | 1.8 |
| A87-396023 | 1.8 | 1.2 | 1.0 | 1.0 | 1.8 | 3.0 | 1.0 | | 3.5 |
| A87-398007 | 1.3 | 1.0 | 1.0 | 1.0 | 1.0 | 2.0 | 1.0 | | 2.3 |
| A87-398025 | 1.4 | 1.0 | 1.0 | 1.0 | 1.0 | 2.0 | 1.0 | | 2.5 |
| K81-21-51 | 1.7 | 1.1 | 1.0 | 1.0 | 1.3 | 3.5 | 1.0 | | 2.8 |
| K81-21-222 | 1.8 | 1.3 | 1.1 | 1.0 | 1.8 | 3.0 | 1.0 | | 3.3 |
| K82-1-9 | 1.3 | 1.0 | 1.0 | 1.0 | 1.0 | 2.0 | 1.0 | | 1.8 |
| K82-1-93 | 1.3 | 1.2 | 1.1 | 1.0 | 1.0 | 2.0 | 1.0 | | 1.5 |
| LN83-3824-1 | 1.9 | 1.3 | 1.4 | 1.5 | 1.5 | 2.5 | 2.0 | | 3.3 |
| LN84-2418 | 1.4 | 1.0 | 1.0 | 1.0 | 1.0 | 2.0 | 1.0 | | 2.8 |
| LN84-3321 | 1.9 | 1.0 | 1.0 | 1.0 | 1.5 | 4.0 | 1.5 | | 3.0 |
| LN84-3542 | 1.7 | 1.1 | 1.0 | 1.0 | 1.3 | 3.0 | 1.0 | | 3.3 |
| LN84-7414 | 1.7 | 1.0 | 1.1 | 1.0 | 1.5 | 3.0 | 1.0 | | 3.3 |
| LN84-7820 | 1.3 | 1.0 | 1.0 | 1.0 | 1.0 | 2.0 | 1.0 | | 2.0 |
| LN84-11299 | 1.7 | 1.1 | 1.2 | 1.0 | 1.5 | 3.0 | 1.0 | | 3.0 |
| LN84-15502 | 1.2 | 1.0 | 1.0 | 1.0 | 1.0 | 1.5 | 1.0 | | 2.0 |
| LN84-15544 | 1.5 | 1.1 | 1.1 | 1.0 | 1.0 | 2.0 | 1.0 | | 3.0 |
| LN85-2972 | 1.3 | 1.0 | 1.0 | 1.0 | 1.0 | 2.5 | 1.0 | | 1.8 |
| LN85-3036 | 1.6 | 1.0 | 1.0 | 1.0 | 1.5 | 3.5 | 1.0 | | 2.5 |
| LN85-3114 | 1.4 | 1.0 | 1.0 | 1.0 | 1.0 | 2.5 | 1.0 | | 2.3 |
| LN85-3402 | 1.3 | 1.0 | 1.0 | 1.0 | 1.0 | 2.5 | 1.0 | | 1.8 |
| LN85-7389 | 1.2 | 1.0 | 1.0 | 1.0 | 1.0 | 2.0 | 1.0 | | 1.3 |
| U85-71073 | 1.5 | 1.0 | 1.1 | 1.0 | 1.3 | 2.5 | 1.0 | | 2.3 |
| U85-71074 | 1.4 | 1.0 | 1.0 | 1.0 | 1.0 | 2.0 | 1.0 | | 2.5 |
| U85-71084 | 1.4 | 1.0 | 1.0 | 1.0 | 1.0 | 2.5 | 1.0 | | 2.3 |
| U85-71088 | 1.3 | 1.0 | 1.0 | 1.0 | 1.0 | 2.0 | 1.0 | | 1.8 |
| U85-74089 | 1.3 | 1.0 | 1.0 | 1.0 | 1.0 | 2.0 | 1.0 | | 2.0 |

## UNIFORM PRELIMINARY TEST IIIA, 1988

### PLANT HEIGHT (inches)

| Strain | Mean 7 Tests | Pack-wood IA | Stuart IA | Urbana IL | Lafay-ette IN | Man-hattan KS | Mead NE | Hoyt-ville OH | So. Charl-eston OH |
|---|---|---|---|---|---|---|---|---|---|
| Century 84 (II) | 32 | 26 | 32 | 27 | 32 | 41 | 29 | | 35 |
| Flyer (IV) | 35 | 26 | 32 | 30 | 32 | 48 | 36 | | 39 |
| Resnik (III) | 34 | 26 | 32 | 33 | 32 | 42 | 28 | | 42 |
| A87-296004 | 32 | 25 | 31 | 28 | 36 | 42 | 28 | | 37 |
| A87-296013 | 32 | 26 | 28 | 28 | 34 | 40 | 30 | | 36 |
| A87-296031 | 35 | 28 | 32 | 32 | 33 | 46 | 33 | | 38 |
| A87-299028 | 30 | 22 | 28 | 28 | 27 | 40 | 31 | | 33 |
| A87-395027 | 41 | 33 | 38 | 39 | 35 | 50 | 42 | | 48 |
| A87-395028 | 40 | 31 | 38 | 37 | 40 | 51 | 40 | | 44 |
| A87-396020 | 33 | 27 | 28 | 32 | 32 | 43 | 30 | | 40 |
| A87-396023 | 36 | 28 | 32 | 37 | 34 | 47 | 35 | | 40 |
| A87-398007 | 38 | 28 | 36 | 38 | 37 | 47 | 39 | | 42 |
| A87-398025 | 36 | 29 | 34 | 34 | 32 | 52 | 35 | | 38 |
| K81-21-51 | 40 | 32 | 36 | 39 | 41 | 50 | 39 | | 41 |
| K81-21-222 | 40 | 30 | 38 | 41 | 39 | 49 | 40 | | 41 |
| K82-1-9 | 34 | 28 | 31 | 34 | 32 | 44 | 32 | | 37 |
| K82-1-93 | 38 | 36 | 34 | 38 | 32 | 47 | 33 | | 43 |
| LN83-3824-1 | 40 | 32 | 40 | 40 | 40 | 48 | 39 | | 44 |
| LN84-2418 | 35 | 28 | 33 | 34 | 32 | 41 | 33 | | 41 |
| LN84-3321 | 38 | 28 | 36 | 39 | 36 | 46 | 39 | | 42 |
| LN84-3542 | 37 | 28 | 36 | 34 | 36 | 49 | 37 | | 39 |
| LN84-7414 | 39 | 31 | 38 | 35 | 36 | 49 | 42 | | 43 |
| LN84-7820 | 38 | 28 | 38 | 35 | 33 | 51 | 38 | | 42 |
| LN84-11299 | 36 | 30 | 36 | 33 | 34 | 50 | 33 | | 39 |
| LN84-15502 | 33 | 26 | 32 | 27 | 32 | 43 | 31 | | 39 |
| LN84-15544 | 35 | 27 | 33 | 27 | 36 | 44 | 36 | | 39 |
| LN85-2972 | 37 | 27 | 32 | 34 | 35 | 51 | 37 | | 44 |
| LN85-3036 | 38 | 32 | 35 | 36 | 41 | 46 | 36 | | 40 |
| LN85-3114 | 37 | 26 | 34 | 36 | 36 | 50 | 35 | | 39 |
| LN85-3402 | 36 | 28 | 32 | 34 | 37 | 49 | 34 | | 41 |
| LN85-7389 | 31 | 26 | 32 | 25 | 27 | 45 | 29 | | 36 |
| U85-71073 | 39 | 34 | 36 | 31 | 36 | 53 | 43 | | 42 |
| U85-71074 | 36 | 28 | 36 | 33 | 33 | 48 | 33 | | 42 |
| U85-71084 | 39 | 32 | 38 | 38 | 40 | 49 | 38 | | 37 |
| U85-71088 | 37 | 31 | 36 | 33 | 33 | 50 | 34 | | 42 |
| U85-74089 | 34 | 28 | 32 | 33 | 33 | 45 | 32 | | 38 |

## UNIFORM PRELIMINARY TEST IIIA, 1988

### SEED QUALITY (score)

| Strain | Mean 8 Tests | Packwood IA | Stuart IA | Urbana IL | Lafayette IN | Manhattan KS | Mead NE | Hoytville OH | So. Charleston OH |
|---|---|---|---|---|---|---|---|---|---|
| Century 84 (II) | 2.6 | 5.0 | 2.1 | 3.3 | 1.5 | 2.0 | 2.3 | 2.2 | 2.0 |
| Flyer (IV) | 2.2 | 4.7 | 1.7 | 3.4 | 1.0 | 2.0 | 1.0 | 2.0 | 1.5 |
| Resnik (III) | 2.0 | 3.2 | 1.5 | 3.4 | 1.0 | 2.0 | 1.0 | 2.6 | 1.5 |
| A87-296004 | 2.5 | 4.2 | 2.8 | 2.3 | 1.5 | 3.0 | 2.0 | 2.3 | 2.0 |
| A87-296013 | 2.5 | 3.6 | 2.8 | 3.4 | 1.5 | 3.0 | 2.0 | 1.9 | 2.0 |
| A87-296031 | 2.4 | 3.8 | 2.2 | 2.2 | 1.5 | 3.0 | 2.0 | 2.1 | 2.5 |
| A87-299028 | 2.6 | 4.0 | 2.8 | 2.4 | 2.0 | 3.0 | 2.0 | 1.9 | 2.5 |
| A87-395027 | 2.1 | 3.6 | 1.7 | 2.8 | 1.0 | 2.0 | 1.3 | 2.0 | 2.0 |
| A87-395028 | 2.1 | 3.3 | 2.0 | 1.9 | 2.0 | 2.0 | 2.0 | 1.9 | 2.0 |
| A87-396020 | 2.5 | 4.2 | 2.3 | 3.3 | 1.5 | 3.0 | 1.8 | 2.1 | 2.0 |
| A87-396023 | 2.4 | 4.2 | 2.6 | 2.8 | 1.5 | 2.0 | 1.5 | 2.7 | 1.5 |
| A87-398007 | 2.7 | 4.0 | 2.3 | 3.4 | 2.0 | 3.0 | 2.0 | 2.0 | 2.5 |
| A87-398025 | 2.4 | 3.9 | 1.6 | 3.0 | 1.5 | 2.0 | 2.0 | 2.5 | 3.0 |
| K81-21-51 | 2.3 | 4.3 | 1.6 | 2.9 | 1.5 | 2.0 | 1.5 | 2.2 | 2.0 |
| K81-21-222 | 2.8 | 4.8 | 2.6 | 3.0 | 1.5 | 3.0 | 1.8 | 2.8 | 2.5 |
| K82-1-9 | 2.2 | 4.3 | 1.3 | 3.4 | 1.0 | 2.0 | 1.0 | 2.2 | 2.0 |
| K82-1-93 | 2.1 | 4.2 | 1.4 | 3.3 | 1.0 | 2.0 | 1.0 | 2.5 | 1.5 |
| LN83-3824-1 | 2.6 | 3.7 | 3.0 | 1.9 | 2.0 | 2.0 | 2.3 | 3.1 | 2.5 |
| LN84-2418 | 2.3 | 4.2 | 2.0 | 2.2 | 1.0 | 2.0 | 1.8 | 3.0 | 2.0 |
| LN84-3321 | 2.2 | 3.6 | 2.3 | 2.4 | 1.5 | 2.0 | 1.5 | 2.3 | 2.0 |
| LN84-3542 | 2.5 | 4.1 | 2.0 | 3.0 | 2.0 | 3.0 | 2.0 | 2.1 | 2.0 |
| LN84-7414 | 2.8 | 3.7 | 3.2 | 3.4 | 1.5 | 3.0 | 2.0 | 3.2 | 2.5 |
| LN84-7820 | 2.6 | 4.1 | 1.6 | 2.5 | 2.0 | 3.0 | 2.3 | 2.9 | 2.5 |
| LN84-11299 | 2.2 | 3.2 | 2.3 | 2.5 | 1.5 | 2.0 | 2.0 | 2.8 | 1.5 |
| LN84-15502 | 2.7 | 4.9 | 3.5 | 3.5 | 1.5 | 2.0 | 1.5 | 2.7 | 2.0 |
| LN84-15544 | 2.2 | 3.8 | 1.5 | 3.8 | 1.5 | 2.0 | 1.0 | 2.8 | 1.5 |
| LN85-2972 | 2.2 | 4.0 | 2.4 | 2.0 | 1.5 | 2.0 | 1.8 | 2.2 | 1.5 |
| LN85-3036 | 2.6 | 4.8 | 2.8 | 2.4 | 1.5 | 2.0 | 1.8 | 2.4 | 3.0 |
| LN85-3114 | 2.6 | 4.8 | 2.8 | 1.8 | 1.5 | 3.0 | 1.8 | 2.8 | 2.0 |
| LN85-3402 | 2.7 | 4.5 | 2.0 | 2.5 | 1.5 | 4.0 | 2.0 | 2.8 | 2.5 |
| LN85-7389 | 2.2 | 3.9 | 1.2 | 1.9 | 1.0 | 3.0 | 1.8 | 3.0 | 2.0 |
| U85-71073 | 2.3 | 4.4 | 1.3 | 2.9 | 1.0 | 2.0 | 1.8 | 2.6 | 2.0 |
| U85-71074 | 2.5 | 4.2 | 2.5 | 2.9 | 1.0 | 3.0 | 1.8 | 2.4 | 2.0 |
| U85-71084 | 2.7 | 5.0 | 3.0 | 3.3 | 1.0 | 2.0 | 1.3 | 2.6 | 3.0 |
| U85-71088 | 2.4 | 4.4 | 2.4 | 3.5 | 1.0 | 2.0 | 1.3 | 2.7 | 2.0 |
| U85-74089 | 2.2 | 4.3 | 2.0 | 2.0 | 1.0 | 2.0 | 1.8 | 2.2 | 2.0 |

## UNIFORM PRELIMINARY TEST IIIA, 1988

### SEED SIZE (g/100)

| Strain | Mean 8 Tests | Pack-wood IA | Stuart IA | Urbana IL | Lafay-ette IN | Man-hattan KS | Mead NE | Hoyt-ville OH | So. Charl-eston OH |
|---|---|---|---|---|---|---|---|---|---|
| Century 84 (II) | 15.2 | 16.1 | 14.0 | 12.2 | 12.7 | 18.3 | 18.3 | 13.4 | 16.6 |
| Flyer (IV) | 13.0 | 14.2 | 13.3 | 10.1 | 12.3 | 16.1 | 13.1 | 11.8 | 13.1 |
| Resnik (III) | 13.5 | 13.7 | 13.7 | 12.1 | 12.5 | 15.8 | 14.2 | 11.5 | 14.4 |
| A87-296004 | 15.9 | 19.0 | 16.4 | 12.4 | 15.2 | 17.6 | 17.7 | 13.3 | 15.5 |
| A87-296013 | 14.6 | 15.9 | 14.8 | 12.4 | 12.0 | 16.3 | 16.3 | 14.1 | 14.9 |
| A87-296031 | 16.5 | 17.4 | 17.2 | 13.7 | 14.9 | 18.6 | 17.0 | 15.8 | 17.4 |
| A87-299028 | 14.0 | 16.3 | 13.8 | 12.9 | 12.1 | 15.4 | 14.9 | 12.2 | 14.4 |
| A87-395027 | 13.9 | 16.2 | 14.8 | 13.7 | 9.5 | 15.1 | 14.2 | 12.5 | 14.8 |
| A87-395028 | 14.9 | 16.2 | 15.6 | 14.1 | 11.8 | 17.2 | 14.2 | 15.3 | 14.9 |
| A87-396020 | 16.2 | 17.4 | 16.0 | 15.4 | 12.1 | 19.9 | 17.5 | 15.8 | 15.4 |
| A87-396023 | 15.9 | 17.2 | 16.3 | 15.3 | 11.4 | 19.0 | 15.3 | 16.8 | 15.6 |
| A87-398007 | 16.8 | 17.2 | 18.7 | 16.7 | 13.8 | 18.6 | 18.0 | 15.3 | 16.0 |
| A87-398025 | 14.5 | 16.5 | 16.4 | 13.9 | 10.0 | 15.9 | 14.5 | 13.5 | 14.9 |
| K81-21-51 | 15.1 | 16.2 | 15.4 | 15.6 | 14.6 | 16.4 | 14.3 | 12.5 | 15.8 |
| K81-21-222 | 16.3 | 16.9 | 16.0 | 15.9 | 13.5 | 18.8 | 16.2 | 16.1 | 17.0 |
| K82-1-9 | 12.9 | 14.4 | 11.8 | 13.0 | 10.7 | 15.2 | 13.2 | 11.7 | 13.4 |
| K82-1-93 | 13.5 | 14.8 | 12.9 | 13.6 | 12.3 | 15.0 | 13.6 | 12.6 | 12.9 |
| LN83-3824-1 | 12.3 | 12.9 | 10.2 | 11.4 | 12.2 | 14.6 | 12.5 | 12.5 | 12.1 |
| LN84-2418 | 13.3 | 14.4 | 13.1 | 11.9 | 11.2 | 15.5 | 14.3 | 12.4 | 13.3 |
| LN84-3321 | 13.1 | 13.3 | 13.6 | 12.3 | 10.5 | 16.1 | 14.2 | 11.3 | 13.2 |
| LN84-3542 | 13.4 | 14.4 | 12.4 | 11.7 | 11.7 | 16.4 | 15.5 | 11.7 | 13.7 |
| LN84-7414 | 15.1 | 15.3 | 14.6 | 15.0 | 12.7 | 16.8 | 16.4 | 14.6 | 15.4 |
| LN84-7820 | 15.2 | 15.4 | 15.5 | 13.6 | 11.3 | 18.0 | 16.6 | 16.0 | 15.2 |
| LN84-11299 | 16.1 | 16.5 | 15.2 | 13.3 | 13.9 | 21.2 | 19.1 | 13.7 | 15.9 |
| LN84-15502 | 13.7 | 14.8 | 13.0 | 11.7 | 11.3 | 15.7 | 15.3 | 13.4 | 14.0 |
| LN84-15544 | 12.7 | 12.7 | 12.1 | 9.9 | 10.5 | 15.8 | 13.5 | 13.4 | 14.0 |
| LN85-2972 | 14.2 | 14.1 | 15.4 | 12.1 | 12.0 | 15.1 | 16.1 | 14.8 | 14.3 |
| LN85-3036 | 15.9 | 15.6 | 16.6 | 14.9 | 14.6 | 14.9 | 16.8 | 17.6 | 16.3 |
| LN85-3114 | 14.2 | 14.7 | 14.8 | 13.3 | 13.1 | 16.1 | 14.4 | 12.9 | 13.9 |
| LN85-3402 | 15.7 | 17.3 | 17.2 | 14.9 | 13.8 | 15.7 | 16.0 | 13.7 | 16.6 |
| LN85-7389 | 13.4 | 15.5 | 13.2 | 9.8 | 10.7 | 15.2 | 16.2 | 12.6 | 13.7 |
| U85-71073 | 13.0 | 14.8 | 13.6 | 10.7 | 11.1 | 14.8 | 13.4 | 12.4 | 13.0 |
| U85-71074 | 13.4 | 14.5 | 12.8 | 12.7 | 11.0 | 17.0 | 14.2 | 12.1 | 12.6 |
| U85-71084 | 13.3 | 14.9 | 13.3 | 12.7 | 12.0 | 16.5 | 12.2 | 11.2 | 13.4 |
| U85-71088 | 12.9 | 15.0 | 12.8 | 13.1 | 10.3 | 13.8 | 12.8 | 11.3 | 14.0 |
| U85-74089 | 12.7 | 14.0 | 13.5 | 10.9 | 10.4 | 14.5 | 14.3 | 11.3 | 13.0 |

## UNIFORM PRELIMINARY TEST IIIA, 1988

### PROTEIN (%)

| Strain | Mean 5 Tests | Stuart IA | Urbana IL | Lafayette IN | Manhattan KS | Hoytville OH |
|---|---|---|---|---|---|---|
| Century 84 (II) | 43.0 | 42.6 | 44.0 | 44.0 | 41.0 | 43.5 |
| Flyer (IV) | 42.6 | 42.8 | 44.9 | 43.0 | 40.8 | 41.4 |
| Resnik (III) | 42.1 | 40.1 | 44.3 | 44.5 | 40.4 | 41.0 |
| A87-296004 | 42.2 | 41.6 | 43.6 | 44.5 | 40.5 | 40.7 |
| A87-296013 | 40.4 | 40.5 | 42.5 | 41.7 | 38.1 | 39.4 |
| A87-296031 | 42.6 | 42.6 | 43.5 | 42.5 | 40.9 | 43.3 |
| A87-299028 | 40.7 | 41.1 | 41.2 | 42.4 | 38.8 | 40.2 |
| A87-395027 | 40.4 | 39.1 | 41.5 | 41.3 | 39.8 | 40.2 |
| A87-395028 | 40.2 | 40.5 | 40.0 | 41.8 | 39.0 | 39.7 |
| A87-396020 | 40.9 | 41.0 | 41.4 | 42.2 | 40.6 | 39.4 |
| A87-396023 | 40.7 | 40.1 | 41.0 | 41.8 | 40.1 | 40.5 |
| A87-398007 | 41.7 | 40.0 | 44.8 | 42.4 | 41.4 | 40.0 |
| A87-398025 | 40.8 | 40.6 | 42.5 | 42.0 | 38.8 | 40.0 |
| K81-21-51 | 40.7 | 40.0 | 42.9 | 42.2 | 40.1 | 38.4 |
| K81-21-222 | 41.8 | 41.8 | 43.7 | 40.6 | 41.3 | 41.7 |
| K82-1-9 | 42.0 | 41.6 | 44.1 | 42.9 | 40.7 | 40.7 |
| K82-1-93 | 41.9 | 41.0 | 43.7 | 43.2 | 40.8 | 40.7 |
| LN83-3824-1 | 40.8 | 41.0 | 40.3 | 43.4 | 39.1 | 40.2 |
| LN84-2418 | 40.2 | 39.4 | 41.3 | 41.8 | 39.3 | 39.0 |
| LN84-3321 | 40.4 | 39.6 | 40.6 | 43.1 | 39.4 | 39.4 |
| LN84-3542 | 40.3 | 41.2 | 41.0 | 41.8 | 38.6 | 38.7 |
| LN84-7414 | 40.3 | 40.0 | 41.3 | 41.2 | 38.5 | 40.5 |
| LN84-7820 | 40.5 | 38.9 | 41.2 | 42.1 | 39.2 | 41.2 |
| LN84-11299 | 41.1 | 41.5 | 42.8 | 41.8 | 39.5 | 39.9 |
| LN84-15502 | 40.4 | 40.0 | 41.6 | 42.0 | 38.7 | 39.6 |
| LN84-15544 | 42.3 | 40.9 | 44.1 | 42.1 | 42.5 | 42.1 |
| LN85-2972 | 43.1 | 42.2 | 43.6 | 44.7 | 42.4 | 42.7 |
| LN85-3036 | 41.3 | 41.1 | 42.8 | 43.0 | 38.3 | 41.3 |
| LN85-3114 | 42.0 | 41.7 | 43.3 | 42.7 | 40.9 | 41.5 |
| LN85-3402 | 41.1 | 40.6 | 42.3 | 42.9 | 39.5 | 40.3 |
| LN85-7389 | 41.5 | 39.8 | 44.5 | 42.2 | 39.9 | 41.3 |
| U85-71073 | 41.6 | 40.4 | 43.9 | 42.3 | 41.0 | 40.6 |
| U85-71074 | 41.8 | 40.7 | 44.5 | 42.7 | 40.7 | 40.5 |
| U85-71084 | 40.5 | 39.4 | 40.9 | 43.8 | 39.3 | 39.3 |
| U85-71088 | 42.1 | 41.1 | 43.8 | 43.2 | 41.8 | 40.6 |
| U85-74089 | 41.2 | 40.5 | 42.0 | 42.9 | 40.0 | 40.5 |

## UNIFORM PRELIMINARY TEST IIIA, 1988

### OIL (%)

| Strain | Mean 5 Tests | Stuart IA | Urbana IL | Lafayette IN | Manhattan KS | Hoytville OH |
|---|---|---|---|---|---|---|
| Century 84 (II) | 20.1 | 19.9 | 20.2 | 19.7 | 20.9 | 20.0 |
| Flyer (IV) | 19.9 | 20.9 | 18.6 | 19.0 | 21.1 | 19.8 |
| Resnik (III) | 20.7 | 22.7 | 19.6 | 19.6 | 21.4 | 20.2 |
| A87-296004 | 20.8 | 21.9 | 20.8 | 19.6 | 21.5 | 20.3 |
| A87-296013 | 21.5 | 22.0 | 21.1 | 19.9 | 22.8 | 21.9 |
| A87-296031 | 20.7 | 21.9 | 20.1 | 20.9 | 21.0 | 19.5 |
| A87-299028 | 21.2 | 21.9 | 21.1 | 20.1 | 21.9 | 21.2 |
| A87-395027 | 21.1 | 22.1 | 20.9 | 20.0 | 21.6 | 20.9 |
| A87-395028 | 21.0 | 21.3 | 21.5 | 19.9 | 21.4 | 20.8 |
| A87-396020 | 20.9 | 21.7 | 22.0 | 19.2 | 21.3 | 20.4 |
| A87-396023 | 20.8 | 21.7 | 21.1 | 20.3 | 20.8 | 20.0 |
| A87-398007 | 20.2 | 21.3 | 19.1 | 19.6 | 20.7 | 20.4 |
| A87-398025 | 20.4 | 21.1 | 19.4 | 19.2 | 21.5 | 20.6 |
| K81-21-51 | 20.9 | 22.3 | 20.4 | 19.2 | 21.4 | 21.4 |
| K81-21-222 | 20.6 | 21.4 | 19.9 | 20.1 | 21.2 | 20.3 |
| K82-1-9 | 20.0 | 21.0 | 19.4 | 19.2 | 20.6 | 19.8 |
| K82-1-93 | 20.2 | 21.1 | 19.8 | 19.4 | 20.8 | 19.8 |
| LN83-3824-1 | 20.5 | 20.2 | 21.6 | 18.9 | 21.3 | 20.3 |
| LN84-2418 | 21.3 | 22.5 | 21.5 | 19.7 | 21.8 | 20.9 |
| LN84-3321 | 21.0 | 22.1 | 21.7 | 19.8 | 21.1 | 20.3 |
| LN84-3542 | 21.0 | 21.4 | 21.7 | 19.9 | 21.4 | 20.6 |
| LN84-7414 | 21.1 | 22.5 | 21.1 | 20.8 | 21.4 | 19.7 |
| LN84-7820 | 21.6 | 22.8 | 22.4 | 20.7 | 21.9 | 20.0 |
| LN84-11299 | 21.2 | 21.4 | 20.8 | 21.0 | 21.9 | 20.7 |
| LN84-15502 | 21.0 | 21.6 | 20.7 | 20.2 | 21.8 | 20.9 |
| LN84-15544 | 19.8 | 20.9 | 19.6 | 19.7 | 20.0 | 18.9 |
| LN85-2972 | 19.9 | 21.2 | 19.8 | 18.8 | 20.1 | 19.5 |
| LN85-3036 | 20.7 | 21.1 | 20.0 | 19.8 | 22.0 | 20.5 |
| LN85-3114 | 20.0 | 20.3 | 20.1 | 20.0 | 20.0 | 19.7 |
| LN85-3402 | 20.3 | 20.9 | 19.8 | 19.3 | 20.9 | 20.8 |
| LN85-7389 | 20.3 | 21.6 | 18.7 | 19.7 | 21.3 | 20.2 |
| U85-71073 | 20.7 | 21.8 | 20.1 | 19.9 | 21.0 | 20.6 |
| U85-71074 | 20.6 | 22.5 | 19.7 | 19.7 | 20.7 | 20.4 |
| U85-71084 | 21.0 | 22.0 | 20.8 | 19.4 | 21.5 | 21.2 |
| U85-71088 | 20.3 | 21.0 | 19.6 | 20.1 | 20.4 | 20.4 |
| U85-74089 | 20.9 | 22.3 | 21.4 | 19.5 | 21.1 | 20.2 |

## UNIFORM PRELIMINARY TEST IIIB, 1988

| Strain | Parentage | Generation Composited | Unique Traits |
|---|---|---|---|
| Century 84 (II) | Century (5) x Williams 82 | BC4 F3 | Rps1-k |
| Flyer (IV) | Asgrow A3127 (4) x Williams 82 | BC3 F2 | Rps1-k |
| Resnik (III) | Asgrow A3127 (4) x Williams 82 | BC3 F2 | Rps1-k |
| C1744 | A80-344003 x Century 84 | F6 | Rps1-k |
| C1746 | A80-344003 x Williams 82 | F6 | Rps1-k |
| C1747 | A80-344003 x Williams 82 | F6 | Rps1-k |
| C1748 | Williams 82 x Harper | F6 | Het. Rps1-k |
| C1750 | Harper x C1640 | F6 | fan |
| C1751 | Harper x C1640 | F6 | fan |
| C1752 | Harper x C1640 | F6 | fan |
| C1754 | A80-344003 x Williams 82 | F6 | |
| HC84-4851 (Dt) | Sprite x Williams 82 | F5 | |
| HM8776 | A80-147003 x Asgrow A3127 BC3 F2 | F6 | Rps1-k |
| HM8777 | A79-2360022 x Century 84 | BC1 F3 | Rps1-k |
| HM8778 | Zane4 x HW79149 | BC3 F3 | Rps1-c |
| HM8779 | A79-2360022 x Century 84 | BC1 F3 | Rps1-k |
| HM8782 | Asgrow A3127 BC3 F2 x PMGTC3S1 | F6 | Rps1-k |
| HM8783 | Asgrow A3127 BC3 F2 x PMGTC3S1 | F6 | Rps1-k |
| HM8845 | HW79149 X HW79022 | F6 | Rps1-c |
| HM8846 | HW79149 X HW79022 | F6 | Rps1-c |
| HM8849 | PMGTC2 | S6 | |
| HM8887 | PMGTC2 | S6 | |
| HM8888 | HW79149 X HW79022 | F6 | |
| ORC 8701 | Corsoy 79 x Pioneer 1981 | F5 | |
| S84-1684 | Will x Fayette | F5 | SCN 4 Resis. |
| S85-1054 | L77-443 x Douglas | F5 | SCN 4 Resis. |
| Hobbit 87 (dt) | Hobbit (6) x Williams 82 | BC5 F3 | |
| HC84-913 (dt) | M70-153 x Sprite | F5 | |
| HC84-1157 (dt) | L73U-635 x Sprite | F5 | |
| HC84-1225 (dt) | HC74-3400 x Essex | F5 | |
| HC84-1228 (dt) | HC74-3400 x Essex | F5 | |
| HC84-1332-2 (dt) | HC76-4030 x LN-1060 | F5 | |
| HC84-2568 (dt) | HC78-676 x Asgrow A3127 | F5 | |
| HC84-2575 (dt) | HC78-353 X Asgrow A3127 | F5 | |
| HC85-6405 (dt) | Gnome 85 x Asgrow A3127 | F5 | |
| HC85-6406 (dt) | Gnome 85 x Asgrow A3127 | F5 | |
| HC85-6500 (dt) | Pixie x HC78-676 | F5 | |
| HC85-6521 (dt) | Coker 237 x HC78-676 | F5 | |
| HC85-6724 (dt) | HC74-634RE x HC78-676 | F5 | |
| ORC 8605 | HC77-878 x A79-138024 | F5 | |

## UNIFORM PRELIMINARY TEST IIIB, 1988

### DESCRIPTIVE AND DISEASE DATA

| Strain | Descriptive Code | Chlorosis Score Ames | Shattering Score Manhattan | BSR-Ames Plant n % | BSR-Ames Stem n % |
|---|---|---|---|---|---|
| Century 84 (II) | PTBSYBl | 2.5 | 2 | 100 | 56.6 |
| Flyer (IV) | PTTSYBl | 2.8 | 1 | 100 | 88.3 |
| Resnik (III) | PTTSYBl | 3.5 | 1 | 100 | 66.5 |
| C1744 | PTBSYBl+Br | 2.5 | 1 | 80 | 38.0 |
| C1746 | WTTSYBl | 2.0 | 1 | 100 | 52.3 |
| C1747 | WTTSYBl | 2.3 | 1 | 100 | 49.6 |
| C1748 | WTBSYBl | 3.2 | 1 | 100 | 67.6 |
| C1750 | PTBSYBl | 3.5 | 1 | 90 | 62.0 |
| C1751 | PTBSYBl | 2.5 | 2 | 100 | 47.1 |
| C1752 | PTBSYBl | 3.5 | 1 | 100 | 91.8 |
| C1754 | WTBSYBl | 2.2 | 1 | 100 | 50.2 |
| HC84-4851 (Dt) | WTBSYBl | 2.8 | 1 | 100 | 79.4 |
| HM8776 | P+WTTSYBl+Bf | 4.7 | 1 | 100 | 81.4 |
| HM8777 | PTBDYH | 4.3 | 1 | 90 | 55.2 |
| HM8778 | PGBDYIb | 4.7 | 1 | 100 | 58.5 |
| HM8779 | WTBDYGr | 3.2 | 1 | 100 | 45.3 |
| HM8782 | PTBDYBl | 3.5 | 1 | 100 | 49.1 |
| HM8783 | PTBDYBl | 4.3 | 1 | 100 | 57.7 |
| HM8845 | PTBSYBr | 3.5 | 1 | 100 | 43.7 |
| HM8846 | PGBSYBf | 4.0 | 1 | 100 | 42.9 |
| HM8849 | PTBDYBl | 4.0 | 2 | 100 | 58.7 |
| HM8887 | PGBSYIb | 3.7 | 1 | 100 | 84.2 |
| HM8888 | PGTSYBf | 3.5 | 1 | 90 | 75.0 |
| ORC 8701 | PGBDYGr | 3.3 | 1 | 90 | 55.5 |
| S84-1684 | WTTSYBl | 3.3 | 1 | 100 | 63.3 |
| S85-1054 | WTTSYBl | 1.5 | 1 | 100 | 45.9 |
| Hobbit 87 (dt) | WTTSYBl | 4.0 | 1 | 100 | 80.0 |
| HC84-913 (dt) | PTTSYBr | 2.8 | 1 | 100 | 95.0 |
| HC84-1157 (dt) | WTTSYBl | 3.7 | 1 | 100 | 99.1 |
| HC84-1225 (dt) | WTTSYBl | 2.2 | 1 | 90 | 63.0 |
| HC84-1228 (dt) | PTTDYBr | 2.2 | 1 | 80 | 67.9 |
| HC84-1332-2 (dt) | WTTDYBl | 2.0 | 1 | 100 | 76.6 |
| HC84-2568 (dt) | PTTDYBl | 2.7 | 1 | 100 | 98.3 |
| HC84-2575 (dt) | PTTDYBl | 3.0 | 1 | 100 | 97.3 |
| HC85-6405 (dt) | PTTSYBl | 3.8 | 1 | 100 | 90.8 |
| HC85-6406 (dt) | PTTSYBl | 3.3 | 1 | 100 | 98.0 |
| HC85-6500 (dt) | PTB+TSYBl | 2.8 | 2 | 100 | 93.4 |
| HC85-6521 (dt) | PTBSYBr | 1.8 | 1 | 100 | 94.6 |
| HC85-6724 (dt) | PTTSYBl | 3.3 | 1 | 100 | 93.1 |
| ORC 8605 | PGBDYIb+Bf | 2.8 | 1 | 100 | 75.3 |

# UNIFORM PRELIMINARY TEST IIIB, 1988

## DISEASE DATA

| Strain | PR Castalia Phyto. Tolerance | PR Ames Race 4 Reaction | PR Urbana Race 1 | PR Lafayette Race 7 | PS PSB SMV Lafayette a rt | n % | a Score |
|---|---|---|---|---|---|---|---|
| Century 84 (II) | 3.8 | R | R | R | | | |
| Flyer (IV) | 3.8 | H | H | H | | | |
| Resnik (III) | 4.3 | R | R | R | | | |
| C1744 | 3.7 | R | R | R | | | |
| C1746 | 4.0 | R | R | R | | | |
| C1747 | 4.5 | R | R | R | | | |
| C1748 | 4.7 | H | H | R | | | |
| C1750 | 4.8 | S | S | S | | | |
| C1751 | 4.5 | S | R | S | | | |
| C1752 | 4.0 | S | R | H | | | |
| C1754 | 3.7 | R | R | R | | | |
| HC84-4851 (Dt) | 3.5 | S | S | S | | | |
| HM8776 | 3.5 | S | R | R | | | |
| HM8777 | 3.8 | S | R | R | | | |
| HM8778 | 3.8 | R | R | S | | | |
| HM8779 | 3.5 | R | R | H | | | |
| HM8782 | 3.7 | R | R | R | | | |
| HM8783 | 3.3 | H | R | R | | | |
| HM8845 | 4.0 | S | R | R | | | |
| HM8846 | 3.5 | S | R | R | | | |
| HM8849 | 3.8 | S | S | S | | | |
| HM8887 | 3.8 | S | R | R | | | |
| HM8888 | 3.3 | S | R | R | | | |
| ORC 8701 | 5.7 | S | S | - | | | |
| S84-1684 | 4.3 | S | R | S | | | |
| S85-1054 | 5.0 | S | S | S | | | |
| Hobbit 87 (dt) | 4.8 | R | R | R | | | |
| HC84-913 (dt) | 6.0 | S | S | S | | | |
| HC84-1157 (dt) | 5.5 | S | S | S | | | |
| HC84-1225 (dt) | 5.3 | S | R | S | | | |
| HC84-1228 (dt) | 5.5 | S | S | S | | | |
| HC84-1332-2 (dt) | 5.5 | H | R | H | | | |
| HC84-2568 (dt) | 5.8 | S | R | S | | | |
| HC84-2575 (dt) | 5.8 | S | S | S | | | |
| HC85-6405 (dt) | 5.0 | S | S | S | | | |
| HC85-6406 (dt) | 6.0 | S | S | S | | | |
| HC85-6500 (dt) | 6.3 | S | R | S | | | |
| HC85-6521 (dt) | 6.0 | S | R | S | | | |
| HC85-6724 (dt) | 6.0 | S | S | S | | | |
| ORC 8605 | 5.5 | S | R | H | | | |

## UNIFORM PRELIMINARY TEST IIIB, 1988

### REGIONAL SUMMARY

| | Yield | Rank | Maturity | Lodging | Plant Height | Seed Quality | Seed Size | Composition | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Protein | Oil |
| No. of Tests | 8 | 8 | 6 | 7 | 7 | 8 | 8 | 5 | 5 |
| Strain | bu/a | No. | Date | Score | In. | Score | g/100 | % | % |
| Century 84 (II) | 36.4 | 30 | -10.7 | 1.1 | 32 | 2.6 | 15.3 | 42.8 | 20.5 |
| Flyer (IV) | 39.7 | 22 | 2.7 | 1.3 | 35 | 1.9 | 12.7 | 42.8 | 20.0 |
| Resnik (III) | 43.9 | 2 | 09/20.0* | 1.3 | 34 | 2.1 | 13.5 | 42.2 | 20.5 |
| C1744 | 42.5 | 7 | 2.7 | 1.1 | 35 | 2.2 | 14.3 | 42.0 | 20.5 |
| C1746 | 41.0 | 12 | 2.8 | 1.1 | 35 | 1.9 | 16.1 | 41.6 | 20.7 |
| C1747 | 43.0 | 4 | 5.3 | 1.1 | 32 | 2.6 | 15.6 | 41.5 | 20.8 |
| C1748 | 39.3 | 23 | 3.8 | 1.2 | 36 | 2.4 | 16.6 | 42.0 | 20.6 |
| C1750 | 37.6 | 28 | 2.7 | 1.3 | 34 | 2.6 | 14.6 | 41.8 | 20.6 |
| C1751 | 33.3 | 38 | 3.0 | 1.6 | 42 | 2.7 | 14.7 | 43.2 | 20.0 |
| C1752 | 38.4 | 25 | 3.8 | 1.2 | 37 | 2.9 | 15.2 | 42.0 | 20.1 |
| C1754 | 42.2 | 9 | 2.0 | 1.2 | 35 | 2.1 | 14.1 | 41.6 | 20.8 |
| HC84-4851 (Dt) | 41.3 | 11 | 6.3 | 1.9 | 43 | 2.3 | 15.4 | 41.5 | 21.1 |
| HM8776 | 43.1 | 3 | 1.8 | 1.3 | 31 | 2.2 | 12.7 | 42.2 | 20.2 |
| HM8777 | 42.3 | 8 | -4.0 | 1.5 | 35 | 2.8 | 13.9 | 40.3 | 21.3 |
| HM8778 | 39.0 | 24 | -2.5 | 1.3 | 35 | 3.0 | 17.6 | 41.6 | 21.1 |
| HM8779 | 40.2 | 20 | -3.7 | 1.7 | 36 | 2.5 | 14.6 | 40.1 | 21.7 |
| HM8782 | 38.3 | 27 | -0.2 | 1.3 | 35 | 1.9 | 12.5 | 41.6 | 20.7 |
| HM8783 | 40.0 | 21 | -0.8 | 1.7 | 36 | 2.0 | 12.0 | 41.5 | 20.6 |
| HM8845 | 35.3 | 34 | -1.0 | 1.8 | 39 | 3.2 | 15.7 | 43.5 | 19.4 |
| HM8846 | 36.9 | 29 | -3.0 | 1.9 | 42 | 3.0 | 15.2 | 42.0 | 20.6 |
| HM8849 | 33.3 | 38 | -10.3 | 2.2 | 40 | 2.6 | 14.7 | 40.7 | 21.6 |
| HM8887 | 41.0 | 12 | -1.5 | 1.9 | 36 | 3.1 | 14.9 | 41.2 | 20.6 |
| HM8888 | 40.8 | 15 | -0.5 | 1.7 | 40 | 3.1 | 16.3 | 41.5 | 20.4 |
| ORC 8701 | 35.5 | 33 | -5.3 | 1.7 | 40 | 2.2 | 14.0 | 41.0 | 21.0 |
| S84-1684 | 33.2 | 40 | 5.8 | 1.6 | 40 | 2.3 | 14.5 | 43.6 | 19.5 |
| S85-1054 | 35.6 | 32 | 5.8 | 1.3 | 37 | 2.3 | 15.9 | 43.1 | 20.1 |
| Hobbit 87 (dt) | 41.4 | 10 | -0.2 | 1.1 | 21 | 1.7 | 14.7 | 39.6 | 22.6 |
| HC84-913 (dt) | 40.7 | 18 | 2.5 | 1.0 | 21 | 2.2 | 15.3 | 39.5 | 22.2 |
| HC84-1157 (dt) | 34.0 | 37 | -0.2 | 1.0 | 20 | 2.6 | 17.1 | 42.1 | 20.4 |
| HC84-1225 (dt) | 38.4 | 25 | 1.0 | 1.3 | 23 | 1.8 | 14.6 | 43.3 | 20.3 |
| HC84-1228 (dt) | 35.1 | 35 | 1.2 | 1.0 | 20 | 2.1 | 16.1 | 42.5 | 21.0 |
| HC84-1332-2(dt) | 40.7 | 18 | 2.2 | 1.0 | 22 | 1.7 | 15.5 | 42.4 | 21.0 |
| HC84-2568 (dt) | 41.0 | 12 | 3.3 | 1.1 | 22 | 1.9 | 13.2 | 42.1 | 20.1 |
| HC84-2575 (dt) | 40.8 | 15 | 3.8 | 1.0 | 21 | 2.0 | 15.9 | 41.8 | 21.5 |
| HC85-6405 (dt) | 36.2 | 31 | 2.3 | 1.0 | 21 | 1.9 | 14.1 | 40.6 | 21.3 |
| HC85-6406 (dt) | 34.2 | 36 | -0.3 | 1.0 | 19 | 1.8 | 14.4 | 43.2 | 20.1 |
| HC85-6500 (dt) | 42.9 | 5 | 2.3 | 1.2 | 24 | 1.9 | 14.5 | 40.0 | 21.6 |
| HC85-6521 (dt) | 42.8 | 6 | 1.2 | 1.2 | 28 | 1.8 | 13.1 | 40.0 | 20.3 |
| HC85-6724 (dt) | 47.0 | 1 | 3.3 | 1.2 | 23 | 1.6 | 15.2 | 40.0 | 21.0 |
| ORC 8605 | 40.8 | 15 | -2.0 | 1.2 | 21 | 1.6 | 14.8 | 38.5 | 21.1 |

* 132.3 Days after planting

## UNIFORM PRELIMINARY TEST IIIB, 1988

### YIELD (bu/a)

| Strain | Mean 8 Tests | Pack-wood IA | Stuart IA | Urbana IL | Lafay-ette IN | Man-hattan KS | Mead NE | Hoyt-ville OH | So. Charl-eston OH |
|---|---|---|---|---|---|---|---|---|---|
| Century 84 (II) | 36.4 | 21.4 | 25.5 | 20.6 | 32.4 | 53.6 | 43.5 | 36.8 | 57.0 |
| Flyer (IV) | 39.7 | 30.8 | 35.7 | 16.8 | 34.1 | 60.9 | 45.7 | 30.3 | 63.6 |
| Resnik (III) | 43.9 | 32.0 | 29.8 | 29.4 | 32.0 | 69.1 | 49.9 | 42.5 | 66.2 |
| C1744 | 42.5 | 29.0 | 36.7 | 32.4 | 33.1 | 54.7 | 47.4 | 43.8 | 62.5 |
| C1746 | 41.0 | 29.2 | 33.4 | 31.1 | 33.5 | 58.9 | 50.5 | 30.5 | 60.5 |
| C1747 | 43.0 | 30.2 | 31.4 | 30.4 | 37.7 | 59.6 | 53.2 | 35.7 | 66.1 |
| C1748 | 39.3 | 32.8 | 33.5 | 28.9 | 35.9 | 55.2 | 44.9 | 23.5 | 59.4 |
| C1750 | 37.6 | 23.9 | 32.4 | 35.5 | 31.0 | 51.9 | 42.6 | 35.9 | 47.4 |
| C1751 | 33.3 | 20.1 | 33.0 | 25.0 | 27.1 | 50.1 | 36.5 | 22.7 | 51.8 |
| C1752 | 38.4 | 24.3 | 31.2 | 35.8 | 29.7 | 59.4 | 43.3 | 31.2 | 52.5 |
| C1754 | 42.2 | 30.7 | 36.8 | 33.3 | 38.9 | 59.6 | 47.4 | 28.0 | 63.2 |
| HC84-4851 (Dt) | 41.3 | 29.8 | 30.9 | 42.4 | 32.0 | 62.6 | 43.7 | 27.9 | 61.2 |
| HM8776 | 43.1 | 27.1 | 32.0 | 43.1 | 30.0 | 52.9 | 52.9 | 48.0 | 58.8 |
| HM8777 | 42.3 | 31.2 | 31.8 | 29.2 | 36.0 | 68.7 | 46.7 | 40.8 | 54.1 |
| HM8778 | 39.0 | 28.2 | 32.5 | 25.6 | 32.4 | 56.4 | 45.2 | 31.4 | 60.5 |
| HM8779 | 40.2 | 31.4 | 31.7 | 22.7 | 30.8 | 58.4 | 52.1 | 41.1 | 53.4 |
| HM8782 | 38.3 | 29.1 | 31.6 | 32.1 | 24.2 | 58.1 | 47.3 | 26.3 | 57.9 |
| HM8783 | 40.0 | 30.2 | 31.7 | 22.1 | 29.6 | 58.9 | 48.7 | 34.2 | 64.2 |
| HM8845 | 35.3 | 22.6 | 29.7 | 17.5 | 29.5 | 50.4 | 38.5 | 32.5 | 61.6 |
| HM8846 | 36.9 | 27.8 | 30.6 | 28.1 | 32.3 | 49.3 | 43.1 | 25.7 | 58.3 |
| HM8849 | 33.3 | 27.8 | 19.5 | 16.8 | 26.4 | 47.4 | 43.4 | 28.4 | 56.7 |
| HM8887 | 41.0 | 28.4 | 35.5 | 19.4 | 32.9 | 61.1 | 50.5 | 38.2 | 62.3 |
| HM8888 | 40.8 | 29.6 | 30.1 | 19.5 | 36.9 | 58.3 | 44.8 | 43.5 | 63.6 |
| ORC 8701 | 35.5 | 26.8 | 28.1 | 17.3 | 29.7 | 55.0 | 34.3 | 35.0 | 57.9 |
| S84-1684 | 33.2 | 23.7 | 32.5 | 17.6 | 34.2 | 46.3 | 32.6 | 22.4 | 56.3 |
| S85-1054 | 35.6 | 27.6 | 31.0 | 28.9 | 32.0 | 48.6 | 40.1 | 20.9 | 55.4 |
| Hobbit 87 (dt) | 41.4 | 35.0 | 31.9 | 32.0 | 29.4 | 60.0 | 44.0 | 35.9 | 62.7 |
| HC84-913 (dt) | 40.7 | 29.5 | 34.9 | 32.3 | 34.1 | 60.7 | 33.2 | 36.4 | 64.1 |
| HC84-1157 (dt) | 34.0 | 29.6 | 32.6 | 19.6 | 28.0 | 53.1 | 33.0 | 23.0 | 52.9 |
| HC84-1225 (dt) | 38.4 | 29.6 | 35.1 | 31.9 | 25.0 | 56.3 | 45.6 | 22.7 | 60.9 |
| HC84-1228 (dt) | 35.1 | 26.7 | 35.5 | 33.3 | 26.9 | 53.1 | 37.4 | 14.9 | 53.3 |
| HC84-1332-2 (dt) | 40.7 | 34.7 | 33.3 | 29.7 | 43.2 | 55.7 | 35.4 | 32.0 | 61.5 |
| HC84-2568 (dt) | 41.0 | 31.9 | 37.3 | 27.0 | 38.1 | 57.0 | 37.9 | 33.0 | 65.8 |
| HC84-2575 (dt) | 40.8 | 28.2 | 33.7 | 42.2 | 34.8 | 58.3 | 41.2 | 26.3 | 61.5 |
| HC85-6405 (dt) | 36.2 | 30.9 | 31.3 | 33.7 | 26.0 | 50.2 | 34.2 | 27.7 | 55.5 |
| HC85-6406 (dt) | 34.2 | 26.5 | 27.7 | 39.8 | 28.9 | 46.4 | 25.5 | 20.4 | 58.7 |
| HC85-6500 (dt) | 42.9 | 30.3 | 30.2 | 35.5 | 43.6 | 58.0 | 43.4 | 36.6 | 65.4 |
| HC85-6521 (dt) | 42.8 | 36.2 | 30.1 | 36.3 | 41.3 | 56.5 | 30.5 | 51.0 | 60.1 |
| HC85-6724 (dt) | 47.0 | 31.3 | 35.4 | 43.6 | 45.6 | 61.6 | 46.0 | 40.3 | 72.0 |
| ORC 8605 | 40.8 | 33.4 | 30.6 | 42.9 | 35.2 | 56.2 | 24.3 | 45.9 | 57.9 |
| C.V. (%) | | 9.6 | 9.4 | 36.1 | 14.3 | 6.1 | 12.7 | | 5.0 |
| L.S.D. (5%) | | 5.6 | 6.0 | ns | 9.6 | 7.1 | 10.8 | | 6.0 |
| Row Sp. (In.) | | 27 | 27 | 30 | 24 | 30 | 30 | 15 | 7 |
| Rows/Plot | | 4 | 4 | 4 | 4 | 4 | 2 | 5 | 8 |
| Reps | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |

## UNIFORM PRELIMINARY TEST IIIB, 1988

### YIELD RANK

| Strain | Yield Rank | Pack-wood IA | Stuart IA | Urbana IL | Lafay-ette IN | Man-hattan KS | Mead NE | Hoyt-ville OH | So. Charl-eston OH |
|---|---|---|---|---|---|---|---|---|---|
| Century 84 (II) | 30 | 39 | 39 | 32 | 19 | 28 | 20 | 11 | 29 |
| Flyer (IV) | 22 | 12 | 4 | 39 | 14 | 6 | 13 | 26 | 8 |
| Resnik (III) | 2 | 6 | 35 | 22 | 22 | 1 | 6 | 6 | 2 |
| C1744 | 7 | 24 | 3 | 14 | 17 | 27 | 8 | 4 | 12 |
| C1746 | 12 | 22 | 12 | 19 | 16 | 12 | 4 | 25 | 19 |
| C1747 | 4 | 15 | 25 | 20 | 7 | 9 | 1 | 17 | 3 |
| C1748 | 23 | 5 | 11 | 24 | 10 | 25 | 16 | 34 | 22 |
| C1750 | 28 | 36 | 18 | 9 | 25 | 32 | 25 | 15 | 40 |
| C1751 | 38 | 40 | 14 | 29 | 35 | 35 | 31 | 36 | 39 |
| C1752 | 25 | 35 | 27 | 8 | 28 | 11 | 23 | 24 | 38 |
| C1754 | 9 | 13 | 2 | 12 | 5 | 9 | 8 | 28 | 10 |
| HC84-4851 (Dt) | 11 | 17 | 29 | 4 | 22 | 3 | 19 | 29 | 17 |
| HM8776 | 3 | 31 | 19 | 2 | 27 | 31 | 2 | 2 | 23 |
| HM8777 | 8 | 10 | 21 | 23 | 9 | 2 | 11 | 8 | 34 |
| HM8778 | 24 | 26 | 16 | 28 | 19 | 21 | 15 | 23 | 19 |
| HM8779 | 20 | 8 | 22 | 30 | 26 | 14 | 3 | 7 | 35 |
| HM8782 | 27 | 23 | 24 | 16 | 40 | 17 | 10 | 31 | 26 |
| HM8783 | 21 | 15 | 22 | 31 | 30 | 12 | 7 | 19 | 6 |
| HM8845 | 34 | 38 | 36 | 37 | 31 | 33 | 28 | 21 | 14 |
| HM8846 | 29 | 28 | 30 | 26 | 21 | 36 | 24 | 33 | 25 |
| HM8849 | 38 | 28 | 40 | 39 | 37 | 38 | 21 | 27 | 30 |
| HM8887 | 12 | 25 | 5 | 35 | 18 | 5 | 4 | 10 | 13 |
| HM8888 | 15 | 18 | 33 | 34 | 8 | 15 | 17 | 5 | 8 |
| ORC 8701 | 33 | 32 | 37 | 38 | 28 | 26 | 33 | 18 | 26 |
| S84-1684 | 40 | 37 | 16 | 36 | 13 | 40 | 37 | 38 | 31 |
| S85-1054 | 32 | 30 | 28 | 24 | 22 | 37 | 27 | 39 | 33 |
| Hobbit 87 (dt) | 10 | 2 | 20 | 17 | 32 | 8 | 18 | 15 | 11 |
| HC84-913 (dt) | 18 | 21 | 9 | 15 | 14 | 7 | 35 | 13 | 7 |
| HC84-1157 (dt) | 37 | 18 | 15 | 33 | 34 | 29 | 36 | 35 | 37 |
| HC84-1225 (dt) | 25 | 18 | 8 | 18 | 39 | 22 | 14 | 36 | 18 |
| HC84-1228 (dt) | 35 | 33 | 5 | 12 | 36 | 29 | 30 | 41 | 36 |
| HC84-1332-2 (dt) | 18 | 3 | 13 | 21 | 3 | 24 | 32 | 22 | 15 |
| HC84-2568 (dt) | 12 | 7 | 1 | 27 | 6 | 19 | 29 | 20 | 4 |
| HC84-2575 (dt) | 15 | 26 | 10 | 5 | 12 | 15 | 26 | 31 | 15 |
| HC85-6405 (dt) | 31 | 11 | 26 | 11 | 38 | 34 | 34 | 30 | 32 |
| HC85-6406 (dt) | 36 | 34 | 38 | 6 | 33 | 39 | 39 | 40 | 24 |
| HC85-6500 (dt) | 5 | 14 | 32 | 9 | 2 | 18 | 21 | 12 | 5 |
| HC85-6521 (dt) | 6 | 1 | 33 | 7 | 4 | 20 | 38 | 1 | 21 |
| HC85-6724 (dt) | 1 | 9 | 7 | 1 | 1 | 4 | 12 | 9 | 1 |
| ORC 8605 | 15 | 4 | 30 | 3 | 11 | 23 | 40 | 3 | 26 |

## UNIFORM PRELIMINARY TEST IIIB, 1988

### MATURITY (date)

| Strain | Mean 6 Tests | Pack-wood IA | Stuart IA | Urbana IL | Lafay-ette IN | Man-hattan KS | Mead NE | Hoyt-ville OH | So. Charl-eston OH |
|---|---|---|---|---|---|---|---|---|---|
| Century 84 (II) | -10.7 | | -12 | -16 | -9 | -7 | -9 | | -11 |
| Flyer (IV) | 2.7 | | 6 | -3 | 1 | 2 | 6 | | 4 |
| Resnik (III) | 09/20.0 | | 09/09 | 09/19 | 09/19 | 09/25 | 09/21 | | 09/27 |
| C1744 | 2.7 | | 7 | 2 | 0 | -1 | 6 | | 2 |
| C1746 | 2.8 | | 5 | 1 | 4 | 1 | 5 | | 1 |
| C1747 | 5.3 | | 8 | 3 | 6 | 2 | 9 | | 4 |
| C1748 | 3.8 | | 6 | 3 | 5 | 1 | 7 | | 1 |
| C1750 | 2.7 | | 4 | 9 | 0 | -3 | 5 | | 1 |
| C1751 | 3.0 | | 8 | 4 | -3 | 2 | 4 | | 3 |
| C1752 | 3.8 | | 4 | 12 | 1 | 0 | 5 | | 1 |
| C1754 | 2.0 | | 4 | -2 | 6 | -2 | 5 | | 1 |
| HC84-4851 (Dt) | 6.3 | | 6 | 10 | 8 | 5 | 6 | | 3 |
| HM8776 | 1.8 | | 4 | 6 | -3 | -2 | 4 | | 2 |
| HM8777 | -4.0 | | -2 | -10 | -5 | -3 | -2 | | -2 |
| HM8778 | -2.5 | | -2 | -4 | -1 | -2 | -3 | | -3 |
| HM8779 | -3.7 | | -2 | -11 | -5 | -3 | 2 | | -3 |
| HM8782 | -0.2 | | 3 | -5 | -3 | 0 | 3 | | 1 |
| HM8783 | -0.8 | | 3 | -11 | -3 | 0 | 5 | | 1 |
| HM8845 | -1.0 | | 3 | -10 | -1 | 0 | 0 | | 2 |
| HM8846 | -3.0 | | -1 | -9 | 0 | -1 | -2 | | -5 |
| HM8849 | -10.3 | | -11 | -17 | -11 | -5 | -8 | | -10 |
| HM8887 | -1.5 | | 4 | -7 | -4 | -4 | 3 | | -1 |
| HM8888 | -0.5 | | 2 | -9 | 2 | 1 | 1 | | 0 |
| ORC 8701 | -5.3 | | -3 | -16 | -5 | -2 | -3 | | -3 |
| S84-1684 | 5.8 | | 10 | 4 | 8 | 3 | 6 | | 4 |
| S85-1054 | 5.8 | | 8 | 8 | 4 | 4 | 6 | | 5 |
| Hobbit 87 (dt) | -0.2 | | 4 | -1 | 1 | -1 | 0 | | -4 |
| HC84-913 (dt) | 2.5 | | 4 | 0 | 3 | 1 | 7 | | 0 |
| HC84-1157 (dt) | -0.2 | | 3 | -3 | 3 | 0 | 1 | | -5 |
| HC84-1225 (dt) | 1.0 | | 4 | 2 | -3 | -2 | 5 | | 0 |
| HC84-1228 (dt) | 1.2 | | 4 | -2 | 2 | -1 | 4 | | 0 |
| HC84-1332-2 (dt) | 2.2 | | 6 | 0 | 5 | -1 | 5 | | -2 |
| HC84-2568 (dt) | 3.3 | | 6 | 1 | 7 | 0 | 5 | | 1 |
| HC84-2575 (dt) | 3.8 | | 4 | 4 | 7 | 1 | 5 | | 2 |
| HC85-6405 (dt) | 2.3 | | 2 | 4 | 3 | -3 | 5 | | 3 |
| HC85-6406 (dt) | -0.3 | | 1 | -2 | 0 | -3 | 2 | | 0 |
| HC85-6500 (dt) | 2.3 | | 4 | 2 | 5 | 0 | 2 | | 1 |
| HC85-6521 (dt) | 1.2 | | 4 | 3 | 1 | -3 | 4 | | -2 |
| HC85-6724 (dt) | 3.3 | | 4 | 7 | 5 | 0 | 4 | | 0 |
| ORC 8605 | -2.0 | | 0 | 2 | -1 | -2 | -2 | | -9 |
| Date Planted | 05/10.7 | | 05/10 | 05/03 | 05/10 | 05/27 | 05/11 | | 05/03 |
| Days to Mature | 132 | | 122 | 139 | 132 | 121 | 133 | | 147 |

## UNIFORM PRELIMINARY TEST IIIB, 1988

### LODGING (score)

| Strain | Mean 7 Tests | Pack-wood IA | Stuart IA | Urbana IL | Lafay-ette IN | Man-hattan KS | Mead NE | Hoyt-ville OH | So. Charl-eston OH |
|---|---|---|---|---|---|---|---|---|---|
| Century 84 (II) | 1.1 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | | 1.8 |
| Flyer (IV) | 1.3 | 1.0 | 1.0 | 1.0 | 1.3 | 2.0 | 1.0 | | 1.5 |
| Resnik (III) | 1.3 | 1.1 | 1.0 | 1.0 | 1.0 | 2.0 | 1.0 | | 2.0 |
| C1744 | 1.1 | 1.0 | 1.0 | 1.0 | 1.0 | 1.5 | 1.0 | | 1.3 |
| C1746 | 1.1 | 1.0 | 1.0 | 1.0 | 1.0 | 1.5 | 1.0 | | 1.5 |
| C1747 | 1.1 | 1.0 | 1.0 | 1.0 | 1.0 | 1.5 | 1.0 | | 1.0 |
| C1748 | 1.2 | 1.0 | 1.0 | 1.0 | 1.0 | 2.0 | 1.0 | | 1.5 |
| C1750 | 1.3 | 1.1 | 1.1 | 1.0 | 1.0 | 2.0 | 1.0 | | 1.8 |
| C1751 | 1.6 | 1.1 | 1.1 | 1.0 | 1.3 | 3.0 | 1.0 | | 2.8 |
| C1752 | 1.2 | 1.0 | 1.0 | 1.0 | 1.0 | 2.0 | 1.0 | | 1.5 |
| C1754 | 1.2 | 1.1 | 1.0 | 1.0 | 1.0 | 1.5 | 1.0 | | 1.8 |
| HC84-4851 (Dt) | 1.9 | 1.2 | 1.2 | 2.0 | 1.8 | 3.5 | 1.5 | | 2.3 |
| HM8776 | 1.3 | 1.0 | 1.0 | 1.0 | 1.0 | 2.0 | 1.0 | | 1.8 |
| HM8777 | 1.5 | 1.0 | 1.2 | 1.0 | 1.0 | 2.5 | 1.0 | | 3.0 |
| HM8778 | 1.3 | 1.0 | 1.0 | 1.0 | 1.0 | 2.5 | 1.0 | | 1.8 |
| HM8779 | 1.7 | 1.0 | 1.1 | 1.0 | 1.8 | 3.0 | 1.0 | | 3.0 |
| HM8782 | 1.3 | 1.2 | 1.1 | 1.0 | 1.0 | 2.0 | 1.0 | | 2.0 |
| HM8783 | 1.7 | 1.2 | 1.1 | 1.5 | 1.5 | 2.5 | 1.3 | | 3.0 |
| HM8845 | 1.8 | 1.0 | 1.2 | 1.0 | 2.0 | 3.0 | 1.3 | | 2.8 |
| HM8846 | 1.9 | 1.2 | 1.2 | 1.0 | 2.0 | 3.0 | 1.3 | | 3.3 |
| HM8849 | 2.2 | 1.6 | 1.4 | 2.0 | 2.0 | 3.5 | 1.5 | | 3.5 |
| HM8887 | 1.9 | 1.3 | 1.2 | 1.0 | 2.0 | 2.5 | 1.3 | | 4.3 |
| HM8888 | 1.7 | 1.0 | 1.1 | 1.0 | 1.8 | 3.0 | 1.0 | | 3.0 |
| ORC 8701 | 1.7 | 1.2 | 1.1 | 1.0 | 1.5 | 3.0 | 1.5 | | 2.5 |
| S84-1684 | 1.6 | 1.3 | 1.1 | 1.0 | 2.0 | 2.5 | 1.0 | | 2.3 |
| S85-1054 | 1.3 | 1.0 | 1.0 | 1.0 | 1.5 | 2.0 | 1.0 | | 1.8 |
| Hobbit 87 (dt) | 1.1 | 1.0 | 1.0 | 1.0 | 1.3 | 1.0 | 1.0 | | 1.3 |
| HC84-913 (dt) | 1.0 | 1.0 | 1.1 | 1.0 | 1.0 | 1.0 | 1.0 | | 1.0 |
| HC84-1157 (dt) | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | | 1.0 |
| HC84-1225 (dt) | 1.3 | 1.1 | 1.1 | 2.0 | 1.0 | 1.5 | 1.0 | | 1.5 |
| HC84-1228 (dt) | 1.0 | 1.0 | 1.1 | 1.0 | 1.0 | 1.0 | 1.0 | | 1.0 |
| HC84-1332-2(dt) | 1.0 | 1.1 | 1.1 | 1.0 | 1.0 | 1.0 | 1.0 | | 1.0 |
| HC84-2568 (dt) | 1.1 | 1.0 | 1.1 | 1.0 | 1.0 | 1.0 | 1.0 | | 1.3 |
| HC84-2575 (dt) | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | | 1.0 |
| HC85-6405 (dt) | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | | 1.0 |
| HC85-6406 (dt) | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | | 1.0 |
| HC85-6500 (dt) | 1.2 | 1.0 | 1.0 | 1.5 | 1.0 | 1.0 | 1.0 | | 1.8 |
| HC85-6521 (dt) | 1.2 | 1.0 | 1.1 | 1.0 | 1.0 | 1.5 | 1.0 | | 1.5 |
| HC85-6724 (dt) | 1.2 | 1.0 | 1.1 | 1.0 | 1.0 | 1.0 | 1.0 | | 2.0 |
| ORC 8605 | 1.2 | 1.0 | 1.0 | 2.0 | 1.0 | 1.5 | 1.0 | | 1.0 |

## UNIFORM PRELIMINARY TEST IIIB, 1988

### PLANT HEIGHT (inches)

| Strain | Mean 7 Tests | Pack-wood IA | Stuart IA | Urbana IL | Lafay-ette IN | Man-hattan KS | Mead NE | Hoyt-ville OH | So. Charl-eston OH |
|---|---|---|---|---|---|---|---|---|---|
| Century 84 (II) | 32 | 26 | 32 | 27 | 35 | 41 | 28 | | 37 |
| Flyer (IV) | 35 | 30 | 34 | 30 | 34 | 46 | 34 | | 40 |
| Resnik (III) | 34 | 30 | 30 | 33 | 31 | 45 | 30 | | 42 |
| C1744 | 35 | 27 | 32 | 33 | 33 | 46 | 33 | | 40 |
| C1746 | 35 | 26 | 34 | 30 | 34 | 47 | 34 | | 37 |
| C1747 | 32 | 24 | 30 | 29 | 35 | 42 | 32 | | 34 |
| C1748 | 36 | 31 | 33 | 33 | 34 | 45 | 38 | | 40 |
| C1750 | 34 | 28 | 31 | 33 | 33 | 45 | 31 | | 36 |
| C1751 | 42 | 34 | 38 | 36 | 41 | 57 | 41 | | 44 |
| C1752 | 37 | 29 | 34 | 40 | 36 | 49 | 33 | | 36 |
| C1754 | 35 | 30 | 32 | 33 | 35 | 46 | 32 | | 37 |
| HC84-4851 (Dt) | 43 | 37 | 42 | 45 | 39 | 52 | 41 | | 44 |
| HM8776 | 31 | 25 | 28 | 32 | 27 | 43 | 30 | | 35 |
| HM8777 | 35 | 30 | 34 | 33 | 32 | 45 | 31 | | 37 |
| HM8778 | 35 | 27 | 34 | 34 | 31 | 47 | 34 | | 37 |
| HM8779 | 36 | 28 | 34 | 30 | 35 | 49 | 37 | | 36 |
| HM8782 | 35 | 28 | 33 | 32 | 34 | 45 | 32 | | 40 |
| HM8783 | 36 | 28 | 34 | 33 | 35 | 45 | 33 | | 41 |
| HM8845 | 39 | 30 | 38 | 35 | 41 | 53 | 36 | | 43 |
| HM8846 | 42 | 34 | 40 | 39 | 44 | 53 | 43 | | 44 |
| HM8849 | 40 | 31 | 40 | 37 | 43 | 48 | 39 | | 45 |
| HM8887 | 36 | 31 | 36 | 31 | 33 | 44 | 38 | | 40 |
| HM8888 | 40 | 34 | 40 | 32 | 40 | 54 | 35 | | 42 |
| ORC 8701 | 40 | 32 | 39 | 34 | 40 | 55 | 38 | | 40 |
| S84-1684 | 40 | 34 | 35 | 32 | 40 | 53 | 42 | | 46 |
| S85-1054 | 37 | 32 | 34 | 35 | 35 | 52 | 33 | | 41 |
| Hobbit 87 (dt) | 21 | 15 | 22 | 23 | 23 | 22 | 18 | | 23 |
| HC84-913 (dt) | 21 | 18 | 20 | 23 | 22 | 22 | 16 | | 23 |
| HC84-1157 (dt) | 20 | 18 | 22 | 22 | 22 | 21 | 16 | | 20 |
| HC84-1225 (dt) | 23 | 20 | 24 | 25 | 22 | 24 | 20 | | 26 |
| HC84-1228 (dt) | 20 | 17 | 22 | 23 | 22 | 22 | 16 | | 20 |
| HC84-1332-2 (dt) | 22 | 20 | 22 | 25 | 22 | 22 | 16 | | 25 |
| HC84-2568 (dt) | 22 | 24 | 22 | 23 | 24 | 21 | 18 | | 24 |
| HC84-2575 (dt) | 21 | 17 | 20 | 24 | 21 | 22 | 17 | | 25 |
| HC85-6405 (dt) | 21 | 15 | 22 | 29 | 18 | 23 | 20 | | 22 |
| HC85-6406 (dt) | 19 | 14 | 18 | 22 | 20 | 22 | 13 | | 21 |
| HC85-6500 (dt) | 24 | 22 | 24 | 29 | 24 | 22 | 21 | | 27 |
| HC85-6521 (dt) | 28 | 27 | 27 | 34 | 29 | 29 | 19 | | 28 |
| HC85-6724 (dt) | 23 | 17 | 24 | 28 | 24 | 22 | 17 | | 27 |
| ORC 8605 | 21 | 20 | 23 | 25 | 22 | 23 | 14 | | 23 |

## UNIFORM PRELIMINARY TEST IIIB, 1988

### SEED QUALITY (score)

| Strain | Mean 8 Tests | Pack-wood IA | Stuart IA | Urbana IL | Lafay-ette IN | Man-hattan KS | Mead NE | Hoyt-ville OH | So. Charl-eston OH |
|---|---|---|---|---|---|---|---|---|---|
| Century 84 (II) | 2.6 | 4.8 | 1.8 | 3.3 | 1.0 | 3.0 | 2.0 | 2.1 | 3.0 |
| Flyer (IV) | 1.9 | 3.9 | 1.4 | 3.4 | 1.0 | 1.0 | 1.0 | 1.6 | 2.0 |
| Resnik (III) | 2.1 | 4.0 | 1.4 | 3.4 | 1.0 | 2.0 | 1.0 | 2.0 | 2.0 |
| C1744 | 2.2 | 4.0 | 1.8 | 2.4 | 1.0 | 3.0 | 2.0 | 1.7 | 2.0 |
| C1746 | 1.9 | 3.0 | 2.0 | 1.8 | 1.0 | 2.0 | 1.3 | 2.8 | 1.5 |
| C1747 | 2.6 | 5.0 | 2.3 | 2.4 | 1.5 | 3.0 | 1.8 | 2.6 | 2.0 |
| C1748 | 2.4 | 3.4 | 2.5 | 2.4 | 2.0 | 3.0 | 1.8 | 2.3 | 1.5 |
| C1750 | 2.6 | 4.9 | 2.4 | 3.5 | 1.5 | 2.0 | 1.8 | 2.5 | 2.0 |
| C1751 | 2.7 | 5.0 | 3.0 | 3.3 | 1.5 | 2.0 | 1.8 | 3.1 | 2.0 |
| C1752 | 2.9 | 4.8 | 3.3 | 3.5 | 1.5 | 3.0 | 1.8 | 2.9 | 2.5 |
| C1754 | 2.1 | 3.1 | 2.3 | 2.7 | 1.0 | 2.0 | 1.3 | 2.7 | 2.0 |
| HC84-4851 (Dt) | 2.3 | 3.3 | 2.7 | 3.3 | 1.0 | 2.0 | 1.8 | 2.4 | 2.0 |
| HM8776 | 2.2 | 4.0 | 1.4 | 2.9 | 1.5 | 2.0 | 1.5 | 2.3 | 2.0 |
| HM8777 | 2.8 | 4.7 | 2.3 | 2.3 | 1.5 | 3.0 | 2.0 | 2.7 | 3.5 |
| HM8778 | 3.0 | 4.7 | 2.4 | 4.3 | 2.0 | 3.0 | 2.3 | 2.9 | 2.5 |
| HM8779 | 2.5 | 5.0 | 1.2 | 2.8 | 2.0 | 2.0 | 1.8 | 2.4 | 2.5 |
| HM8782 | 1.9 | 3.5 | 1.4 | 2.4 | 1.0 | 1.0 | 1.3 | 2.6 | 2.0 |
| HM8783 | 2.0 | 4.1 | 1.3 | 2.4 | 1.0 | 2.0 | 1.3 | 2.4 | 1.5 |
| HM8845 | 3.2 | 4.8 | 5.0 | 4.0 | 1.5 | 2.0 | 2.3 | 3.1 | 2.5 |
| HM8846 | 3.0 | 4.7 | 4.9 | 4.0 | 1.5 | 2.0 | 2.0 | 2.3 | 2.5 |
| HM8849 | 2.6 | 3.7 | 2.5 | 3.5 | 1.5 | 2.0 | 2.0 | 2.2 | 3.0 |
| HM8887 | 3.1 | 4.7 | 4.4 | 4.4 | 2.0 | 2.0 | 2.0 | 2.9 | 2.0 |
| HM8888 | 3.1 | 4.5 | 4.9 | 3.5 | 1.5 | 2.0 | 2.3 | 3.1 | 3.0 |
| ORC 8701 | 2.2 | 3.5 | 1.5 | 3.3 | 1.5 | 2.0 | 1.8 | 2.7 | 1.5 |
| S84-1684 | 2.3 | 4.8 | 1.4 | 2.9 | 1.5 | 2.0 | 1.5 | 3.0 | 1.5 |
| S85-1054 | 2.3 | 4.7 | 2.0 | 3.3 | 1.0 | 2.0 | 1.3 | 2.8 | 1.5 |
| Hobbit 87 (dt) | 1.7 | 3.4 | 1.6 | 1.8 | 1.0 | 2.0 | 1.0 | 1.7 | 1.0 |
| HC84-913 (dt) | 2.2 | 3.8 | 2.3 | 2.9 | 1.5 | 2.0 | 2.0 | 1.7 | 1.5 |
| HC84-1157 (dt) | 2.6 | 4.0 | 4.2 | 4.0 | 1.5 | 2.0 | 1.8 | 2.0 | 1.0 |
| HC84-1225 (dt) | 1.8 | 3.8 | 1.2 | 3.2 | 1.0 | 1.0 | 1.0 | 1.8 | 1.5 |
| HC84-1228 (dt) | 2.1 | 3.8 | 2.3 | 2.3 | 1.5 | 2.0 | 1.0 | 2.0 | 1.5 |
| HC84-1332-2(dt) | 1.7 | 3.7 | 2.2 | 1.7 | 1.0 | 1.0 | 1.0 | 1.6 | 1.0 |
| HC84-2568 (dt) | 1.9 | 3.2 | 2.4 | 2.5 | 1.0 | 2.0 | 1.0 | 1.5 | 1.5 |
| HC84-2575 (dt) | 2.0 | 3.6 | 1.8 | 2.4 | 1.0 | 3.0 | 1.0 | 1.5 | 1.5 |
| HC85-6405 (dt) | 1.9 | 3.7 | 1.4 | 2.3 | 1.5 | 2.0 | 1.0 | 1.8 | 1.5 |
| HC85-6406 (dt) | 1.8 | 4.0 | 2.0 | 2.3 | 1.0 | 1.0 | 1.0 | 1.6 | 1.5 |
| HC85-6500 (dt) | 1.9 | 3.2 | 2.2 | 2.3 | 1.0 | 2.0 | 1.0 | 1.8 | 1.5 |
| HC85-6521 (dt) | 1.8 | 3.3 | 1.2 | 1.8 | 1.0 | 2.0 | 1.5 | 1.8 | 1.5 |
| HC85-6724 (dt) | 1.6 | 3.5 | 1.3 | 2.0 | 1.0 | 1.0 | 1.0 | 1.6 | 1.5 |
| ORC 8701 | 1.6 | 2.7 | 1.5 | 1.7 | 1.5 | 1.0 | 1.3 | 1.8 | 1.0 |

## UNIFORM PRELIMINARY TEST IIIB, 1988

### SEED SIZE (g/100)

| Strain | Mean 8 Tests | Pack-wood IA | Stuart IA | Urbana IL | Lafay-ette IN | Man-hattan KS | Mead NE | Hoyt-ville OH | So. Charl-eston OH |
|---|---|---|---|---|---|---|---|---|---|
| Century 84 (II) | 15.3 | 15.3 | 13.7 | 12.2 | 13.5 | 19.5 | 19.3 | 12.8 | 15.9 |
| Flyer (IV) | 12.7 | 13.5 | 13.4 | 10.1 | 9.8 | 15.3 | 13.2 | 12.2 | 13.9 |
| Resnik (III) | 13.5 | 13.5 | 13.4 | 12.1 | 11.0 | 17.0 | 14.1 | 12.4 | 14.3 |
| C1744 | 14.3 | 14.7 | 16.2 | 13.4 | 12.0 | 13.8 | 14.2 | 13.7 | 16.3 |
| C1746 | 16.1 | 17.0 | 17.3 | 14.3 | 13.3 | 16.9 | 16.8 | 15.7 | 17.2 |
| C1747 | 15.6 | 16.9 | 17.2 | 15.2 | 13.1 | 16.1 | 14.9 | 14.4 | 16.9 |
| C1748 | 16.6 | 17.2 | 19.1 | 15.6 | 15.0 | 18.0 | 15.5 | 14.1 | 18.0 |
| C1750 | 14.6 | 16.8 | 14.9 | 15.4 | 11.5 | 13.9 | 14.8 | 14.5 | 14.9 |
| C1751 | 14.7 | 16.0 | 16.9 | 14.0 | 11.2 | 15.4 | 13.4 | 14.1 | 16.4 |
| C1752 | 15.2 | 16.4 | 16.1 | 16.1 | 11.6 | 15.3 | 15.6 | 14.2 | 16.1 |
| C1754 | 14.1 | 14.0 | 15.8 | 12.2 | 12.3 | 15.6 | 13.7 | 14.6 | 14.2 |
| HC84-4851 (Dt) | 15.4 | 15.7 | 15.6 | 14.8 | 13.1 | 18.8 | 14.5 | 14.2 | 16.2 |
| HM8776 | 12.7 | 14.4 | 13.7 | 12.4 | 9.8 | 13.6 | 13.2 | 10.3 | 14.0 |
| HM8777 | 13.9 | 15.5 | 14.2 | 12.2 | 10.9 | 16.8 | 15.7 | 11.6 | 14.1 |
| HM8778 | 17.6 | 19.5 | 18.1 | 15.1 | 13.3 | 20.2 | 20.4 | 15.6 | 18.8 |
| HM8779 | 14.6 | 15.5 | 15.0 | 11.4 | 11.1 | 16.9 | 15.9 | 15.6 | 15.6 |
| HM8782 | 12.5 | 13.4 | 13.1 | 11.1 | 9.6 | 14.6 | 13.5 | 10.6 | 13.9 |
| HM8783 | 12.0 | 12.6 | 12.8 | 9.4 | 9.0 | 13.9 | 13.1 | 11.9 | 13.2 |
| HM8845 | 15.7 | 16.3 | 15.9 | 13.3 | 12.6 | 17.4 | 17.6 | 14.5 | 17.9 |
| HM8846 | 15.2 | 14.8 | 15.6 | 14.6 | 14.0 | 17.4 | 16.3 | 12.6 | 16.2 |
| HM8849 | 14.7 | 16.2 | 13.5 | 12.4 | 12.1 | 16.1 | 18.0 | 14.8 | 14.8 |
| HM8887 | 14.9 | 15.9 | 16.7 | 11.2 | 11.6 | 17.8 | 15.3 | 14.6 | 15.7 |
| HM8888 | 16.3 | 16.2 | 15.9 | 13.2 | 14.0 | 18.2 | 17.2 | 17.6 | 17.9 |
| ORC 8701 | 14.0 | 14.5 | 14.1 | 10.7 | 11.5 | 16.5 | 15.3 | 14.0 | 15.6 |
| S84-1684 | 14.5 | 14.9 | 15.7 | 12.3 | 13.6 | 15.3 | 12.9 | 15.3 | 16.0 |
| S85-1054 | 15.9 | 17.0 | 18.6 | 16.2 | 12.8 | 15.1 | 15.2 | 15.7 | 16.9 |
| Hobbit 87 (dt) | 14.7 | 16.3 | 13.7 | 13.2 | 11.5 | 15.8 | 16.6 | 14.5 | 15.6 |
| HC84-913 (dt) | 15.3 | 15.5 | 14.1 | 12.7 | 12.4 | 18.3 | 19.2 | 13.0 | 17.1 |
| HC84-1157 (dt) | 17.1 | 19.1 | 16.3 | 13.2 | 12.8 | 19.0 | 20.3 | 18.1 | 17.6 |
| HC84-1225 (dt) | 14.6 | 15.8 | 15.1 | 13.2 | 11.1 | 15.5 | 16.7 | 13.8 | 15.3 |
| HC84-1228 (dt) | 16.1 | 17.2 | 16.0 | 13.3 | 13.0 | 18.5 | 18.6 | 15.7 | 16.8 |
| HC84-1332-2 (dt) | 15.5 | 15.1 | 16.4 | 12.7 | 13.5 | 16.1 | 18.7 | 16.4 | 15.4 |
| HC84-2568 (dt) | 13.2 | 13.1 | 13.2 | 11.5 | 11.2 | 14.1 | 15.5 | 13.4 | 13.7 |
| HC84-2575 (dt) | 15.9 | 15.9 | 14.6 | 14.9 | 14.3 | 16.7 | 18.0 | 15.7 | 17.4 |
| HC85-6405 (dt) | 14.1 | 14.7 | 13.8 | 13.3 | 11.2 | 15.6 | 16.2 | 12.9 | 15.4 |
| HC85-6406 (dt) | 14.4 | 14.8 | 13.6 | 14.1 | 12.2 | 14.4 | 16.6 | 14.8 | 14.5 |
| HC85-6500 (dt) | 14.5 | 14.3 | 14.0 | 13.1 | 12.8 | 16.5 | 15.2 | 13.3 | 16.6 |
| HC85-6521 (dt) | 13.1 | 13.0 | 13.1 | 11.8 | 10.8 | 13.5 | 17.7 | 12.8 | 12.2 |
| HC85-6724 (dt) | 15.2 | 15.2 | 14.2 | 14.4 | 13.2 | 16.3 | 17.2 | 15.4 | 15.5 |
| ORC 8605 | 14.8 | 14.2 | 14.6 | 14.3 | 12.1 | 15.3 | 19.0 | 14.0 | 14.9 |

## UNIFORM PRELIMINARY TEST IIIB, 1988

### PROTEIN (%)

| Strain | Mean 5 Tests | Stuart IA | Urbana IL | Lafayette IN | Manhattan KS | Hoytville OH |
|---|---|---|---|---|---|---|
| Century 84 (II) | 42.8 | 43.2 | 43.1 | 43.3 | 43.3 | 41.0 |
| Flyer (IV) | 42.8 | 41.2 | 45.3 | 45.0 | 41.5 | 41.0 |
| Resnik (III) | 42.2 | 40.8 | 44.0 | 44.4 | 40.2 | 41.4 |
| C1744 | 42.0 | 41.2 | 42.6 | 45.5 | 41.1 | 39.7 |
| C1746 | 41.6 | 41.4 | 42.8 | 42.5 | 40.5 | 40.7 |
| C1747 | 41.5 | 42.7 | 41.4 | 42.1 | 40.8 | 40.5 |
| C1748 | 42.0 | 41.4 | 44.3 | 42.9 | 41.2 | 40.4 |
| C1750 | 41.8 | 41.2 | 43.5 | 42.2 | 39.8 | 42.2 |
| C1751 | 43.2 | 42.6 | 45.7 | 44.1 | 40.9 | 42.8 |
| C1752 | 42.0 | 41.7 | 43.4 | 43.7 | 40.0 | 41.4 |
| C1754 | 41.6 | 41.1 | 42.7 | 42.5 | 40.3 | 41.6 |
| HC84-4851 (Dt) | 41.5 | 41.8 | 42.8 | 42.3 | 38.8 | 41.6 |
| HM8776 | 42.2 | 42.1 | 44.0 | 43.6 | 41.2 | 40.3 |
| HM8777 | 40.3 | 38.8 | 40.8 | 41.5 | 38.8 | 41.7 |
| HM8778 | 41.6 | 39.9 | 43.4 | 43.5 | 40.1 | 41.0 |
| HM8779 | 40.1 | 38.5 | 41.1 | 42.9 | 38.9 | 39.1 |
| HM8782 | 41.6 | 40.8 | 43.4 | 44.0 | 40.0 | 39.7 |
| HM8783 | 41.5 | 40.6 | 44.1 | 44.1 | 39.1 | 39.6 |
| HM8845 | 43.5 | 43.5 | 44.9 | 44.5 | 42.8 | 41.9 |
| HM8846 | 42.0 | 42.2 | 43.1 | 44.1 | 41.3 | 39.4 |
| HM8849 | 40.7 | 43.7 | 42.1 | 42.4 | 37.8 | 37.5 |
| HM8887 | 41.2 | 40.3 | 44.2 | 42.6 | 39.9 | 39.0 |
| HM8888 | 41.5 | 42.3 | 42.0 | 42.4 | 40.8 | 39.9 |
| ORC 8701 | 41.0 | 39.6 | 42.7 | 43.3 | 39.9 | 39.7 |
| S84-1684 | 43.6 | 43.0 | 45.2 | 44.0 | 41.9 | 43.8 |
| S85-1054 | 43.1 | 42.9 | 45.3 | 42.9 | 41.1 | 43.2 |
| Hobbit 87 (dt) | 39.6 | 37.7 | 41.1 | 41.5 | 38.3 | 39.2 |
| HC84-913 (dt) | 39.5 | 39.0 | 42.1 | 39.4 | 38.5 | 38.6 |
| HC84-1157 (dt) | 42.1 | 41.5 | 44.2 | 43.4 | 39.8 | 41.8 |
| HC84-1225 (dt) | 43.3 | 41.8 | 45.5 | 44.5 | 42.3 | 42.2 |
| HC84-1228 (dt) | 42.5 | 42.0 | 44.0 | 43.3 | 41.3 | 41.9 |
| HC84-1332-2 (dt) | 42.4 | 41.3 | 43.8 | 43.2 | 41.4 | 42.1 |
| HC84-2568 (dt) | 42.1 | 42.2 | 43.4 | 43.1 | 40.6 | 41.3 |
| HC84-2575 (dt) | 41.8 | 40.7 | 42.8 | 43.7 | 40.5 | 41.2 |
| HC85-6405 (dt) | 40.6 | 41.1 | 41.3 | 41.7 | 39.7 | 39.3 |
| HC85-6406 (dt) | 43.2 | 42.9 | 42.8 | 45.1 | 42.4 | 42.6 |
| HC85-6500 (dt) | 40.0 | 40.8 | 42.3 | 40.3 | 38.6 | 37.8 |
| HC85-6521 (dt) | 40.0 | 39.3 | 41.0 | 41.7 | 39.9 | 38.0 |
| HC85-6724 (dt) | 40.0 | 38.8 | 41.9 | 40.6 | 39.7 | 39.2 |
| ORC 8605 | 38.5 | 38.7 | 37.8 | 40.8 | 38.6 | 36.8 |

## UNIFORM PRELIMINARY TEST IIIB, 1988

### OIL (%)

| Strain | Mean 5 Tests | Stuart IA | Urbana IL | Lafayette IN | Manhattan KS | Hoytville OH |
|---|---|---|---|---|---|---|
| Century 84 (II) | 20.5 | 20.0 | 21.0 | 19.8 | 20.4 | 21.2 |
| Flyer (IV) | 20.0 | 21.4 | 18.4 | 19.5 | 20.6 | 20.3 |
| Resnik (III) | 20.5 | 21.9 | 20.1 | 19.2 | 21.5 | 19.9 |
| C1744 | 20.5 | 21.4 | 20.2 | 19.3 | 20.2 | 21.3 |
| C1746 | 20.7 | 21.7 | 20.3 | 20.6 | 20.4 | 20.6 |
| C1747 | 20.8 | 21.8 | 21.1 | 20.3 | 20.4 | 20.2 |
| C1748 | 20.6 | 21.4 | 19.6 | 20.3 | 20.4 | 21.5 |
| C1750 | 20.6 | 21.8 | 20.6 | 20.0 | 20.6 | 19.8 |
| C1751 | 20.0 | 21.5 | 18.9 | 19.4 | 20.7 | 19.6 |
| C1752 | 20.1 | 20.4 | 19.8 | 19.3 | 20.8 | 20.3 |
| C1754 | 20.8 | 21.8 | 20.8 | 20.3 | 21.1 | 20.1 |
| HC84-4851 (Dt) | 21.1 | 21.2 | 21.1 | 20.5 | 22.2 | 20.6 |
| HM8776 | 20.2 | 21.6 | 19.3 | 19.3 | 20.1 | 20.8 |
| HM8777 | 21.3 | 22.8 | 21.6 | 20.5 | 21.2 | 20.3 |
| HM8778 | 21.1 | 23.5 | 20.3 | 19.9 | 21.7 | 20.1 |
| HM8779 | 21.7 | 23.0 | 21.3 | 20.5 | 21.9 | 21.9 |
| HM8782 | 20.7 | 21.6 | 20.5 | 19.5 | 21.2 | 20.9 |
| HM8783 | 20.6 | 21.6 | 19.1 | 19.0 | 21.8 | 21.5 |
| HM8845 | 19.4 | 19.3 | 19.4 | 19.0 | 19.7 | 19.4 |
| HM8846 | 20.6 | 21.3 | 20.8 | 19.7 | 20.2 | 20.8 |
| HM8849 | 21.6 | 20.3 | 21.8 | 20.9 | 22.5 | 22.4 |
| HM8887 | 20.6 | 21.5 | 19.5 | 19.9 | 21.0 | 21.3 |
| HM8888 | 20.4 | 20.4 | 20.1 | 19.6 | 21.0 | 21.0 |
| ORC 8701 | 21.0 | 22.1 | 20.5 | 19.5 | 21.3 | 21.6 |
| S84-1684 | 19.5 | 20.2 | 18.4 | 19.1 | 19.9 | 19.7 |
| S85-1054 | 20.1 | 21.1 | 19.1 | 19.5 | 20.8 | 20.0 |
| Hobbit 87 (dt) | 22.6 | 24.2 | 21.7 | 21.5 | 22.5 | 22.9 |
| HC84-913 (dt) | 22.2 | 23.2 | 21.4 | 21.8 | 22.3 | 22.4 |
| HC84-1157 (dt) | 20.4 | 21.7 | 18.9 | 19.9 | 21.0 | 20.7 |
| HC84-1225 (dt) | 20.3 | 21.5 | 19.3 | 19.8 | 20.6 | 20.5 |
| HC84-1228 (dt) | 21.0 | 22.2 | 20.8 | 20.4 | 21.3 | 20.4 |
| HC84-1332-2 (dt) | 21.0 | 22.3 | 20.3 | 20.3 | 21.0 | 20.9 |
| HC84-2568 (dt) | 20.1 | 20.5 | 19.1 | 19.3 | 21.0 | 20.7 |
| HC84-2575 (dt) | 21.5 | 22.0 | 21.7 | 20.8 | 21.4 | 21.4 |
| HC85-6405 (dt) | 21.3 | 21.2 | 21.5 | 20.7 | 21.3 | 21.9 |
| HC85-6406 (dt) | 20.1 | 20.3 | 20.8 | 18.9 | 20.4 | 20.1 |
| HC85-6500 (dt) | 21.6 | 21.4 | 21.1 | 21.2 | 22.0 | 22.1 |
| HC85-6521 (dt) | 20.3 | 21.2 | 20.2 | 19.1 | 20.3 | 20.6 |
| HC85-6724 (dt) | 21.0 | 22.0 | 20.8 | 20.0 | 21.1 | 21.0 |
| ORC 8605 | 21.1 | 21.2 | 21.6 | 20.1 | 20.7 | 21.8 |

## UNIFORM TEST IV, 1988

| Strain | Parentage | Previous* Testing | Generation Composited | Unique Traits |
|---|---|---|---|---|
| Flyer (E) | Asgrow A3127 (4) x Williams 82 | 1 | BC3 F2 | Rps1-k |
| Pennyrile (L) | Williams x Essex | - | F5 | |
| Pyramid (SCN) | Franklin x J74-5 | UTIV(86) | F4 | SCN 3,4 |
| Ripley (dt) | Hodgson x V68-1034 | 6 | F5 | |
| Spencer (IV) | A75-305022 x Century | 3 | F5 | |
| C1692 | A77-314013 x L73-4673 | 1 | F5 | |
| K1144 | K1062 x S76-2203 | PTIV | F5 | |
| K1145 | Essex x Cumberland | PTIV | F5 | |
| K1146 | Essex x K1062 | PTIV | F5 | |
| K1148 | Essex x Cumberland | PTIV | F5 | |
| L83-3804 | L78-8694 x L78L-449 | PTIV | F6 | |
| LN82-2366 | Sprite x L75-3632 | 2 | F5 | |
| LN84-452 | A78-227015 x Asgrow A3127 | PTIV | F5 | ~~Rps1~~ |
| LN84-4037 | HW79149 x Harper | PTIV | F5 | |
| LN84-4082 | HW79149 x Harper | PTIV | F5 | |
| LN84-9583 | Hack x Cumberland | PTIV | F5 | |
| Md81-0953 | A75-305022 x Elf | 2 | F5 | |
| S83-1004 | Cumberland x Forrest | 1 | F5 | SCN 3 |
| S85-1084 | (Williams x PI 88.788) x (Union x Douglas) | PTIV | F6 | SCN 3,4 |

* Number of years in test or name of 1987 test

# UNIFORM TEST IV, 1988

## DESCRIPTIVE DATA

| Strain | Descriptive Code | Chlorosis Score | Shattering Score | | | | Mottling Score |
|---|---|---|---|---|---|---|---|
| | | Lamberton | Carbondale | Eldorado | Manhattan | Lubbock | Eldorado |
| Flyer (E) | PTTSYBl | 3.8 | 1.5 | 1.0 | 1.0 | 2.5 | 2.5 |
| Pennyrile (L) | WTBSYBl | 3.0 | 1.6 | 1.0 | 1.0 | 2.0 | 2.0 |
| Pyramid (SCN) | PGBSYIb | 3.5 | 1.3 | 1.0 | 1.0 | 2.0 | 3.0 |
| Ripley (dt) | PGTSYBf | 3.8 | 1.8 | 1.0 | 1.0 | 2.5 | 2.0 |
| Spencer (IV) | WTBSYBr | 3.8 | 2.5 | 1.0 | 1.0 | 2.7 | 3.5 |
| C1692 | WTTSYG | 4.5 | 1.7 | 1.0 | 1.0 | 2.5 | 4.0 |
| K1144 | WTBSYBl | 3.5 | 2.2 | 1.0 | 1.0 | 4.0 | 2.0 |
| K1145 | PGTDYIb | 3.5 | 2.0 | 1.0 | 1.0 | 2.0 | 1.0 |
| K1146 | WTTDYBl | 3.8 | 2.0 | 1.0 | 1.0 | 2.3 | 2.0 |
| K1148 | PGBDYIb | 4.0 | 2.8 | 1.0 | 1.0 | 3.0 | 1.5 |
| L83-3804 | PTTSYBl | 4.5 | 1.2 | 1.0 | 1.0 | 2.0 | 3.5 |
| LN82-2366 | WGBSYBf | 4.0 | 1.5 | 1.0 | 1.0 | 2.5 | 2.0 |
| LN84-452 | WGTDYBf | 3.3 | 2.2 | 1.3 | 1.0 | 2.7 | 2.0 |
| LN84-4037 | PGBSYBf | 4.3 | 2.7 | 1.0 | 2.0 | 4.0 | 1.0 |
| LN84-4082 | PGBSYIb | 4.5 | 2.8 | 1.6 | 2.0 | 3.0 | 1.0 |
| LN84-9583 | PGBSYIb | 3.8 | 1.8 | 1.0 | 1.0 | 2.5 | 1.0 |
| Md81-0953 | WTTSYBr | 3.8 | 1.5 | 1.0 | 1.0 | 2.5 | 2.5 |
| S83-1004 | WGTSYBf | 3.5 | 1.7 | 1.0 | 1.0 | 2.5 | 1.5 |
| S85-1084 | WTTSYBl | 3.5 | 1.8 | 1.0 | 1.0 | 2.0 | 1.0 |

## UNIFORM TEST IV, 1988

### DISEASE DATA

| Strain | BTS Ames a Score | Emerg. Score Ames | Mottling Orange % | PS % | PR Castalia Phyto. Tolerance | PR Urbana-Laf. Race 1 | PR Urbana-Laf. Race 7 | PS Lafayette a rt | PSB Lafayette n % | SMV Lafayette a Score |
|---|---|---|---|---|---|---|---|---|---|---|
| Flyer (E) | 3 | 1 | 1.7 | 0.0 | 2.5 | H | H | | | |
| Pennyrile (L) | 3 | 2 | 0.7 | 0.0 | 4.3 | S | S | | | |
| Pyramid (SCN) | 4 | 4 | 1.3 | 0.0 | 4.0 | S | S | | | |
| Ripley (dt) | 3 | 1 | 0.0 | 0.0 | 5.0 | R | S | | | |
| Spencer (IV) | 3 | 5 | 1.7 | 0.7 | 5.0 | S | S | | | |
| C1692 | 3 | 5 | 0.0 | 0.7 | 6.0 | S | S | | | |
| K1144 | 3 | 1 | 3.7 | 0.0 | 4.0 | S | S | | | |
| K1145 | 3 | 1 | 0.0 | 0.7 | 3.5 | S | S | | | |
| K1146 | 3 | 3 | 0.0 | 0.7 | 4.0 | R | R | | | |
| K1148 | 3 | 2 | 0.0 | 0.3 | 4.0 | S | S | | | |
| L83-3804 | 3 | 2 | 12.3 | 0.0 | 4.5 | S | S | | | |
| LN82-2366 | 4 | 3 | 0.0 | 3.3 | 5.0 | S | S | | | |
| LN84-452 | 3 | 1 | 0.0 | 0.3 | 7.5 | S | S | | | |
| LN84-4037 | 3 | 4 | 0.0 | 1.7 | 6.0 | S | S | | | |
| LN84-4082 | 3 | 5 | 0.0 | 0.3 | 4.0 | R | R | | | |
| LN84-9583 | 3 | 3 | 0.0 | 1.7 | 4.0 | S | S | | | |
| Md81-0953 | 3 | 2 | 0.3 | 0.0 | 4.5 | S | S | | | |
| S83-1004 | 2 | 2 | 1.0 | 0.0 | 4.0 | S | S | | | |
| S85-1084 | 3 | 1 | 0.7 | 2.0 | 4.5 | S | H | | | |

# UNIFORM TEST IV, 1988

## REGIONAL SUMMARY

| | Yield | Rank | Maturity | Lodging | Plant Height | Seed Quality | Seed Size | Composition Protein | Composition Oil |
|---|---|---|---|---|---|---|---|---|---|
| No. of Tests | 19 | 19 | 18 | 19 | 18 | 17 | 16 | 5 | 5 |
| Strain | bu/a | No. | Date | Score | In. | Score | g/100 | % | % |
| Flyer (E) | 43.5 | 5 | -3.6 | 1.4 | 35 | 1.5 | 13.9 | 40.9 | 21.6 |
| Pennyrile (L) | 41.7 | 12 | 7.6 | 1.5 | 42 | 2.2 | 16.7 | 41.9 | 20.6 |
| Pyramid (SCN) | 39.3 | 19 | 5.1 | 1.9 | 44 | 1.9 | 15.1 | 39.4 | 20.5 |
| Ripley (dt) | 43.3 | 8 | -2.3 | 1.2 | 25 | 1.5 | 13.2 | 39.3 | 21.6 |
| Spencer (IV) | 43.4 | 6 | 09/28.2* | 1.3 | 37 | 2.2 | 16.7 | 40.0 | 21.6 |
| C1692 | 40.1 | 18 | -2.4 | 1.4 | 37 | 2.1 | 16.5 | 40.3 | 21.7 |
| K1144 | 41.5 | 13 | 0.3 | 1.4 | 39 | 1.9 | 15.0 | 40.2 | 19.9 |
| K1145 | 43.4 | 6 | 3.2 | 1.2 | 35 | 2.2 | 15.8 | 42.4 | 20.4 |
| K1146 | 42.0 | 11 | 4.3 | 1.4 | 35 | 2.1 | 15.4 | 41.1 | 21.1 |
| K1148 | 43.8 | 2 | 2.8 | 1.8 | 39 | 2.0 | 14.9 | 41.6 | 21.1 |
| L83-3804 | 43.8 | 2 | 5.3 | 2.3 | 36 | 1.8 | 16.4 | 40.6 | 20.9 |
| LN82-2366 | 44.5 | 1 | -3.7 | 1.7 | 34 | 1.9 | 16.2 | 40.8 | 21.8 |
| LN84-452 | 43.8 | 2 | -3.3 | 1.4 | 34 | 2.0 | 15.3 | 39.9 | 21.4 |
| LN84-4037 | 40.6 | 17 | -3.9 | 1.2 | 32 | 2.7 | 18.6 | 40.3 | 21.2 |
| LN84-4082 | 41.4 | 15 | -4.6 | 1.7 | 36 | 2.6 | 17.7 | 41.3 | 21.6 |
| LN84-9583 | 41.0 | 16 | -3.2 | 1.6 | 36 | 2.2 | 17.9 | 41.1 | 21.4 |
| Md81-0953 | 42.3 | 9 | 0.4 | 1.7 | 39 | 2.0 | 15.4 | 40.5 | 21.4 |
| S83-1004 | 42.3 | 9 | 4.3 | 1.7 | 40 | 1.7 | 13.0 | 40.8 | 20.8 |
| S85-1084 | 41.5 | 13 | 3.5 | 1.6 | 42 | 2.2 | 16.9 | 41.8 | 20.9 |

* 131.1 Days after planting

## UNIFORM TEST IV, 1988

### 1987-1988 2-YEAR MEAN

| | Yield | Rank | Maturity | Lodging | Plant Height | Seed Quality | Seed Size | Composition Protein | Composition Oil |
|---|---|---|---|---|---|---|---|---|---|
| No. of Tests | 38 | 38 | 36 | 38 | 37 | 35 | 33 | 10 | 10 |
| Strain | bu/a | No. | Date | Score | In. | Score | g/100 | % | % |
| Flyer (E) | 44.3 | 2 | -3.4 | 1.4 | 35 | 1.6 | 13.6 | 41.4 | 21.0 |
| Ripley (dt) | 42.8 | 4 | -3.0 | 1.2 | 24 | 1.6 | 13.0 | 40.1 | 21.5 |
| Spencer (IV) | 43.1 | 3 | 09/25.4* | 1.4 | 37 | 2.4 | 16.2 | 39.9 | 21.7 |
| C1692 | 41.5 | 7 | -2.3 | 1.6 | 36 | 2.2 | 16.7 | 40.7 | 21.4 |
| LN82-2366 | 44.6 | 1 | -4.0 | 1.7 | 33 | 1.9 | 16.0 | 40.6 | 21.8 |
| Md81-0953 | 42.2 | 6 | -0.5 | 1.8 | 38 | 2.0 | 14.7 | 40.4 | 21.3 |
| S83-1004 | 42.7 | 5 | 3.2 | 1.7 | 40 | 1.7 | 12.6 | 40.8 | 20.6 |

* 129.0 Days after planting

### 1986-1988 3-YEAR MEAN

| | Yield | Rank | Maturity | Lodging | Plant Height | Seed Quality | Seed Size | Composition Protein | Composition Oil |
|---|---|---|---|---|---|---|---|---|---|
| No. of Tests | 56 | 56 | 52 | 55 | 55 | 52 | 49 | 15 | 15 |
| Strain | bu/a | No. | Date | Score | In. | Score | g/100 | % | % |
| Ripley (dt) | 45.2 | 3 | -3.4 | 1.2 | 23 | 1.6 | 13.2 | 39.9 | 21.3 |
| Spencer (IV) | 46.1 | 2 | 09/25.0* | 1.5 | 38 | 2.3 | 16.6 | 40.1 | 21.6 |
| LN82-2366 | 46.7 | 1 | -4.8 | 1.8 | 34 | 2.0 | 16.2 | 40.7 | 21.8 |
| Md81-0953 | 45.1 | 4 | -0.1 | 2.0 | 38 | 2.0 | 15.0 | 40.3 | 21.3 |

* 129.7 Days after planting

## UNIFORM TEST IV, 1988

### YIELD (bu/a)

| Strain | Mean 19 Tests | George-town DE | Middle-town DE | Belle-ville IL | Carbon-dale IL | Eldor-ado IL | Lafay-ette IN | Vince-nnes IN |
|---|---|---|---|---|---|---|---|---|
| Flyer (E) | 43.5 | | | 44.0 | 33.5 | 35.3 | 32.2 | 56.9 |
| Pennyrile (L) | 41.7 | | | 34.5 | 41.2 | 37.3 | 38.2 | 53.9 |
| Pyramid (SCN) | 39.3 | | | 43.3 | 32.2 | 38.8 | 37.4 | 40.5 |
| Ripley (dt) | 43.3 | | | 38.0 | 35.4 | 40.5 | 43.2 | 52.1 |
| Spencer (IV) | 43.4 | | | 37.0 | 41.5 | 40.0 | 34.5 | 43.9 |
| C1692 | 40.1 | | | 32.4 | 38.0 | 32.8 | 39.4 | 39.8 |
| K1144 | 41.5 | | | 39.7 | 40.3 | 36.2 | 36.0 | 44.9 |
| K1145 | 43.4 | | | 40.6 | 41.6 | 38.4 | 35.8 | 58.3 |
| K1146 | 42.0 | | | 30.7 | 35.4 | 43.1 | 31.8 | 49.9 |
| K1148 | 43.8 | | | 38.4 | 37.6 | 39.5 | 38.6 | 51.3 |
| L83-3804 | 43.8 | | | 37.1 | 44.8 | 28.8 | 38.9 | 57.2 |
| LN82-2366 | 44.5 | | | 36.0 | 43.4 | 46.2 | 41.0 | 59.6 |
| LN84-452 | 43.8 | | | 37.0 | 44.3 | 36.0 | 36.8 | 53.8 |
| LN84-4037 | 40.6 | | | 38.1 | 34.8 | 38.9 | 31.9 | 42.6 |
| LN84-4082 | 41.4 | | | 41.1 | 37.0 | 29.0 | 35.7 | 44.8 |
| LN84-9583 | 41.0 | | | 39.3 | 37.4 | 29.5 | 33.5 | 52.7 |
| Md81-0953 | 42.3 | | | 39.5 | 42.4 | 37.0 | 40.6 | 60.6 |
| S83-1004 | 42.3 | | | 46.3 | 38.1 | 39.5 | 36.2 | 44.4 |
| S85-1084 | 41.5 | | | 46.5 | 35.6 | 44.7 | 35.5 | 48.5 |
| C.V. (%) | | | | 15.0 | 14.2 | 12.2 | 11.0 | 18.5 |
| L.S.D. (5%) | | | | 9.9 | 9.4 | 7.5 | 6.7 | 15.5 |
| Row Sp. (In.) | | | | 30 | 30 | 30 | 24 | 15 |
| Rows/Plot | | | | 4 | 4 | 4 | 4 | 5 |
| Reps | | | | 3 | 3 | 3 | 3 | 3 |

## UNIFORM TEST IV, 1988

### YIELD (bu/a)

| Strain | Manhattan KS | Ottawa KS | Powhattan KS | Lexington KY | Queenstown MD | Columbia MO | Portageville Clay MO | Portageville Loam MO | Lincoln NE |
|---|---|---|---|---|---|---|---|---|---|
| Flyer (E) | 63.0 | | 23.9 | 41.8 | 51.9 | 47.1 | 22.0 | 38.1 | 38.7 |
| Pennyrile (L) | 45.2 | | 22.9 | 42.7 | 51.4 | 41.8 | 28.7 | 43.4 | 29.7 |
| Pyramid (SCN) | 46.9 | | 21.0 | 40.0 | 47.3 | 33.4 | 29.7 | 41.5 | 33.5 |
| Ripley (dt) | 62.7 | | 21.3 | 42.4 | 50.2 | 45.9 | 21.2 | 32.1 | 38.1 |
| Spencer (IV) | 58.5 | | 20.3 | 43.3 | 49.7 | 42.0 | 23.6 | 44.4 | 35.2 |
| C1692 | 54.0 | | 22.6 | 37.5 | 49.0 | 42.3 | 19.0 | 37.4 | 43.6 |
| K1144 | 50.1 | | 22.3 | 40.1 | 46.4 | 39.7 | 23.5 | 39.3 | 32.5 |
| K1145 | 55.9 | | 23.9 | 41.8 | 51.3 | 38.2 | 24.8 | 39.8 | 42.6 |
| K1146 | 52.8 | | 21.0 | 35.2 | 49.1 | 44.6 | 31.1 | 39.3 | 39.4 |
| K1148 | 55.8 | | 22.6 | 40.0 | 47.1 | 43.6 | 28.2 | 42.4 | 40.0 |
| L83-3804 | 51.7 | | 22.9 | 41.1 | 47.6 | 40.8 | 40.4 | 44.4 | 36.2 |
| LN82-2366 | 57.2 | | 26.1 | 37.0 | 48.7 | 43.0 | 22.9 | 39.9 | 52.2 |
| LN84-452 | 61.2 | | 23.6 | 39.6 | 49.7 | 40.8 | 23.3 | 39.0 | 40.2 |
| LN84-4037 | 51.8 | | 19.7 | 35.7 | 51.6 | 39.2 | 21.9 | 39.0 | 42.1 |
| LN84-4082 | 49.6 | | 19.7 | 34.0 | 50.2 | 44.8 | 22.2 | 41.7 | 41.3 |
| LN84-9583 | 57.9 | | 20.3 | 36.5 | 48.9 | 37.4 | 24.9 | 35.5 | 41.5 |
| Md81-0953 | 51.8 | | 20.7 | 41.2 | 44.9 | 31.1 | 27.0 | 38.5 | 33.8 |
| S83-1004 | 56.9 | | 24.8 | 38.4 | 49.6 | 38.7 | 29.2 | 48.8 | 37.2 |
| S85-1084 | 51.1 | | 18.4 | 32.4 | 48.6 | 35.2 | 31.9 | 45.0 | 29.1 |
| C.V. (%) | 5.1 | | 14.9 | 11.0 | 6.3 | 11.0 | 14.5 | 7.4 | 8.0 |
| L.S.D. (5%) | 4.6 | | ns | 4.6 | ns | 7.3 | 6.3 | 4.9 | 5.1 |
| Row Sp. (In.) | 30 | | 30 | 30 | 30 | 30 | 30 | 30 | 30 |
| Rows/Plot | 4 | | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Reps | 3 | | 3 | 3 | 3 | 3 | 3 | 3 | 3 |

## UNIFORM TEST IV, 1988

### YIELD (bu/a)

| Strain | Adel-phia NJ | Ripley OH | South Charleston OH | Landis-ville PA | Lubbock TX | Orange VA |
|---|---|---|---|---|---|---|
| Flyer (E) | 50.9 | 33.5 | 62.9 | 67.5 | 35.7 | 48.4 |
| Pennyrile (L) | 44.7 | 31.8 | 55.1 | 61.5 | 43.8 | 45.2 |
| Pyramid (SCN) | 38.6 | 31.7 | 44.7 | 58.0 | 45.9 | 42.4 |
| Ripley (dt) | 43.5 | 32.9 | 64.6 | 67.4 | 44.9 | 47.2 |
| Spencer (IV) | 42.3 | 42.1 | 64.6 | 68.1 | 43.3 | 49.6 |
| C1692 | 41.5 | 28.2 | 60.4 | 54.5 | 44.2 | 45.2 |
| K1144 | 42.3 | 36.1 | 59.5 | 67.7 | 39.3 | 53.5 |
| K1145 | 43.0 | 39.5 | 60.1 | 57.5 | 42.0 | 50.4 |
| K1146 | 43.9 | 35.7 | 60.4 | 66.0 | 40.5 | 47.9 |
| K1148 | 50.7 | 33.1 | 60.7 | 68.8 | 43.4 | 50.3 |
| L83-3804 | 42.1 | 39.2 | 59.1 | 62.6 | 49.4 | 47.2 |
| LN82-2366 | 39.9 | 33.4 | 65.9 | 66.1 | 39.1 | 48.5 |
| LN84-452 | 50.5 | 31.3 | 66.5 | 65.1 | 44.5 | 48.9 |
| LN84-4037 | 38.9 | 29.8 | 62.8 | 65.8 | 36.5 | 49.8 |
| LN84-4082 | 43.6 | 28.1 | 60.9 | 66.1 | 46.8 | 49.9 |
| LN84-9583 | 44.6 | 29.2 | 60.5 | 62.5 | 37.4 | 49.8 |
| Md81-0953 | 43.0 | 30.4 | 63.2 | 69.5 | 41.0 | 47.6 |
| S83-1004 | 41.2 | 35.0 | 53.4 | 60.5 | 41.7 | 43.7 |
| S85-1084 | 48.8 | 34.6 | 56.4 | 58.9 | 47.4 | 40.0 |
| C.V. (%) | 12.0 | 11.8 | 5.2 | 8.8 | 8.0 | 7.4 |
| L.S.D. (5%) | 7.7 | 8.6 | 5.2 | 9.5 | 5.6 | 5.9 |
| Row Sp. (In.) | 30 | 30 | 7 | 24 | 40 | 30 |
| Rows/Plot | 4 | 4 | 8 | 4 | 4 | 3 |
| Reps | 3 | 2 | 3 | 3 | 3 | 3 |

## UNIFORM TEST IV, 1988

### YIELD RANK

| Strain | Yield Rank | George-town DE | Middle-town DE | Belle-ville IL | Carbon-dale IL | Eldor-ado IL | Lafay-ette IN | Vince-nnes IN |
|---|---|---|---|---|---|---|---|---|
| Flyer (E) | 5 | | | 3 | 18 | 15 | 17 | 5 |
| Pennyrile (L) | 12 | | | 17 | 7 | 11 | 7 | 6 |
| Pyramid (SCN) | 19 | | | 4 | 19 | 9 | 8 | 18 |
| Ripley (dt) | 8 | | | 12 | 15 | 4 | 1 | 9 |
| Spencer (IV) | 6 | | | 14 | 6 | 5 | 15 | 16 |
| C1692 | 18 | | | 18 | 10 | 16 | 4 | 19 |
| K1144 | 13 | | | 7 | 8 | 13 | 11 | 13 |
| K1145 | 6 | | | 6 | 5 | 10 | 12 | 3 |
| K1146 | 11 | | | 19 | 15 | 3 | 19 | 11 |
| K1148 | 2 | | | 10 | 11 | 6 | 6 | 10 |
| L83-3804 | 2 | | | 13 | 1 | 19 | 5 | 4 |
| LN82-2366 | 1 | | | 16 | 3 | 1 | 2 | 2 |
| LN84-452 | 2 | | | 14 | 2 | 14 | 9 | 7 |
| LN84-4037 | 17 | | | 11 | 17 | 8 | 18 | 17 |
| LN84-4082 | 15 | | | 5 | 13 | 18 | 13 | 14 |
| LN84-9583 | 16 | | | 9 | 12 | 17 | 16 | 8 |
| Md81-0953 | 9 | | | 8 | 4 | 12 | 3 | 1 |
| S83-1004 | 9 | | | 2 | 9 | 6 | 10 | 15 |
| S85-1084 | 13 | | | 1 | 14 | 2 | 14 | 12 |

### MATURITY (date)

| Strain | Mean 18 Tests | | | | | | |
|---|---|---|---|---|---|---|---|
| Flyer (E) | -3.6 | | | 3 | -4 | -3 | -2 | -1 |
| Pennyrile (L) | 7.6 | | | 5 | 6 | 9 | 9 | 12 |
| Pyramid (SCN) | 5.1 | | | 3 | 3 | 3 | 9 | 8 |
| Ripley (dt) | -2.3 | | | 2 | -9 | -2 | -2 | 0 |
| Spencer (IV) | 09/28.2 | | | 10/02 | 09/24 | 09/18 | 09/27 | 09/18 |
| C1692 | -2.4 | | | 1 | -5 | -1 | 2 | -1 |
| K1144 | 0.3 | | | 3 | 2 | 1 | -1 | 4 |
| K1145 | 3.2 | | | 2 | 4 | 2 | 0 | 4 |
| K1146 | 4.3 | | | 3 | 4 | 3 | 3 | 9 |
| K1148 | 2.8 | | | 3 | -1 | 3 | 6 | 3 |
| L83-3804 | 5.3 | | | 4 | 4 | 2 | 9 | 9 |
| LN82-2366 | -3.7 | | | 1 | -7 | -3 | 0 | -2 |
| LN84-452 | -3.3 | | | 3 | -7 | -5 | -1 | -1 |
| LN84-4037 | -3.9 | | | 0 | -9 | -4 | -4 | -1 |
| LN84-4082 | -4.6 | | | -2 | -10 | -7 | -3 | -3 |
| LN84-9583 | -3.2 | | | -1 | -9 | -6 | -4 | -2 |
| Md81-0953 | 0.4 | | | 3 | -1 | 0 | 5 | 5 |
| S83-1004 | 4.3 | | | 3 | 3 | 5 | 7 | 7 |
| S85-1084 | 3.5 | | | 4 | 3 | 4 | 3 | 6 |
| Date Planted | 05/20.1 | | | 06/02 | 05/14 | 05/10 | 05/10 | 05/05 |
| Days to Mature | 131 | | | 122 | 133 | 131 | 140 | 136 |

# UNIFORM TEST IV, 1988

## YIELD RANK

| Strain | Manhattan KS | Ottawa KS | Powhattan KS | Lexington KY | Queenstown MD | Columbia MO | Portageville Clay MO | Portageville Loam MO | Lincoln NE |
|---|---|---|---|---|---|---|---|---|---|
| Flyer (E) | 1 | | 3 | 4 | 1 | 1 | 16 | 16 | 10 |
| Pennyrile (L) | 19 | | 6 | 2 | 3 | 9 | 6 | 5 | 18 |
| Pyramid (SCN) | 18 | | 12 | 9 | 16 | 18 | 4 | 8 | 16 |
| Ripley (dt) | 2 | | 11 | 3 | 5 | 2 | 18 | 19 | 11 |
| Spencer (IV) | 4 | | 15 | 1 | 7 | 8 | 11 | 3 | 14 |
| C1692 | 10 | | 8 | 13 | 11 | 7 | 19 | 17 | 2 |
| K1144 | 16 | | 10 | 8 | 18 | 12 | 12 | 11 | 17 |
| K1145 | 8 | | 3 | 4 | 4 | 15 | 10 | 10 | 3 |
| K1146 | 11 | | 12 | 17 | 10 | 4 | 3 | 11 | 9 |
| K1148 | 9 | | 8 | 9 | 17 | 5 | 7 | 6 | 8 |
| L83-3804 | 14 | | 6 | 7 | 15 | 10 | 1 | 3 | 13 |
| LN82-2366 | 6 | | 1 | 14 | 13 | 6 | 14 | 9 | 1 |
| LN84-452 | 3 | | 5 | 11 | 7 | 10 | 13 | 13 | 7 |
| LN84-4037 | 12 | | 17 | 16 | 2 | 13 | 17 | 13 | 4 |
| LN84-4082 | 17 | | 17 | 18 | 5 | 3 | 15 | 7 | 6 |
| LN84-9583 | 5 | | 15 | 15 | 12 | 16 | 9 | 18 | 5 |
| Md81-0953 | 12 | | 14 | 6 | 19 | 19 | 8 | 15 | 15 |
| S83-1004 | 7 | | 2 | 12 | 9 | 14 | 5 | 1 | 12 |
| S85-1084 | 15 | | 19 | 19 | 14 | 17 | 2 | 2 | 19 |

## MATURITY (date)

| Strain | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Flyer (E) | -5 | | -4 | -6 | -4 | -8 | -7 | -3 |
| Pennyrile (L) | 11 | | 8 | 5 | 7 | 2 | 10 | 12 |
| Pyramid (SCN) | 6 | | 8 | 3 | 6 | -1 | 1 | 13 |
| Ripley (dt) | -6 | | 0 | -3 | -2 | -8 | -12 | -2 |
| Spencer (IV) | 10/03 | | 09/27 | 10/03 | 09/20 | 09/28 | 09/30 | 09/30 |
| C1692 | -2 | | -5 | -2 | 0 | -6 | -8 | 0 |
| K1144 | -3 | | -1 | -1 | 0 | -1 | -2 | 3 |
| K1145 | -1 | | 2 | 3 | 4 | 1 | 9 | 5 |
| K1146 | 4 | | 3 | 4 | 3 | 0 | 1 | 9 |
| K1148 | 1 | | 3 | 1 | 1 | 0 | 0 | 6 |
| L83-3804 | 4 | | 8 | 2 | 2 | -1 | 3 | 10 |
| LN82-2366 | -3 | | -11 | 0 | 0 | -10 | -1 | -3 |
| LN84-452 | -5 | | -5 | -5 | -4 | -11 | -10 | -2 |
| LN84-4037 | -7 | | -5 | -2 | -2 | -10 | -2 | -2 |
| LN84-4082 | -7 | | -5 | -3 | -3 | -11 | -2 | -3 |
| LN84-9583 | -5 | | -1 | -3 | -2 | -9 | -2 | -3 |
| Md81-0953 | 2 | | 1 | -1 | -1 | -2 | 0 | 2 |
| S83-1004 | 5 | | 2 | 6 | 2 | -1 | 8 | 11 |
| S85-1084 | 1 | | 5 | 1 | 2 | -1 | 1 | 8 |
| Date Planted | 05/27 | | 05/18 | 06/01 | 05/17 | 05/06 | 05/31 | 05/26 |
| Days to Mature | 129 | | 132 | 124 | 126 | 145 | 122 | 127 |

## UNIFORM TEST IV, 1988

### YIELD RANK

| Strain | Adel-phia NJ | Ripley OH | South Charleston OH | Landis-ville PA | Lubbock TX | Orange VA |
|---|---|---|---|---|---|---|
| Flyer (E) | 1 | 8 | 6 | 5 | 19 | 10 |
| Pennyrile (L) | 5 | 12 | 17 | 14 | 8 | 15 |
| Pyramid (SCN) | 19 | 13 | 19 | 17 | 4 | 18 |
| Ripley (dt) | 9 | 11 | 3 | 6 | 5 | 13 |
| Spencer (IV) | 12 | 1 | 3 | 3 | 10 | 7 |
| C1692 | 15 | 18 | 11 | 19 | 7 | 15 |
| K1144 | 12 | 4 | 14 | 4 | 15 | 1 |
| K1145 | 10 | 2 | 13 | 18 | 11 | 2 |
| K1146 | 7 | 5 | 11 | 9 | 14 | 11 |
| K1148 | 2 | 10 | 9 | 2 | 9 | 3 |
| L83-3804 | 14 | 3 | 15 | 12 | 1 | 13 |
| LN82-2366 | 17 | 9 | 2 | 7 | 16 | 9 |
| LN84-452 | 3 | 14 | 1 | 11 | 6 | 8 |
| LN84-4037 | 18 | 16 | 7 | 10 | 18 | 5 |
| LN84-4082 | 8 | 19 | 8 | 7 | 3 | 4 |
| LN84-9583 | 6 | 17 | 10 | 13 | 17 | 5 |
| Md81-0953 | 10 | 15 | 5 | 1 | 13 | 12 |
| S83-1004 | 16 | 6 | 18 | 15 | 12 | 17 |
| S85-1084 | 4 | 7 | 16 | 16 | 2 | 19 |

### MATURITY (date)

| Strain | | | | | | |
|---|---|---|---|---|---|---|
| Flyer (E) | -3 | -3 | -2 | -7 | -4 | -1 |
| Pennyrile (L) | 5 | 3 | 11 | 0 | 11 | 10 |
| Pyramid (SCN) | 2 | 5 | 6 | 2 | 6 | 8 |
| Ripley (dt) | -4 | -1 | 4 | -2 | 7 | -2 |
| Spencer (IV) | 10/12 | 09/24 | 10/01 | 10/19 | 09/16 | 09/25 |
| C1692 | -2 | -4 | -1 | -2 | -5 | -2 |
| K1144 | 0 | 3 | 1 | -2 | -3 | 3 |
| K1145 | 4 | 2 | 3 | 0 | 7 | 7 |
| K1146 | 3 | 5 | 7 | 0 | 9 | 8 |
| K1148 | 2 | 3 | 4 | 2 | 8 | 5 |
| L83-3804 | 6 | 7 | 11 | 0 | 7 | 8 |
| LN82-2366 | -2 | -11 | -3 | -5 | -4 | -3 |
| LN84-452 | 1 | -4 | -2 | 0 | -4 | 2 |
| LN84-4037 | -7 | -7 | -1 | -5 | -1 | -2 |
| LN84-4082 | -5 | -11 | -3 | -2 | -1 | -1 |
| LN84-9583 | 0 | -3 | -3 | -2 | -3 | 0 |
| Md81-0953 | -2 | -2 | 0 | 0 | -4 | 3 |
| S83-1004 | 2 | 1 | 1 | 2 | 7 | 6 |
| S85-1084 | 5 | 4 | 5 | -2 | 6 | 8 |
| Date Planted | 06/15 | 05/03 | 05/03 | 06/06 | 05/12 | 05/31 |
| Days to Mature | 119 | 144 | 151 | 135 | 127 | 117 |

## UNIFORM TEST IV, 1988

### LODGING (score)

| Strain | Mean 19 Tests | George-town DE | Middle-town DE | Belle-ville IL | Carbon-dale IL | Eldor-ado IL | Lafay-ette IN | Vince-nnes IN |
|---|---|---|---|---|---|---|---|---|
| Flyer (E) | 1.4 | | | 1.0 | 1.0 | 1.2 | 1.0 | 1.7 |
| Pennyrile (L) | 1.5 | | | 1.5 | 1.0 | 1.3 | 1.7 | 1.5 |
| Pyramid (SCN) | 1.9 | | | 2.8 | 1.5 | 1.8 | 2.7 | 1.8 |
| Ripley (dt) | 1.2 | | | 1.0 | 1.0 | 1.3 | 1.0 | 1.5 |
| Spencer (IV) | 1.3 | | | 1.0 | 1.0 | 1.2 | 1.0 | 1.5 |
| C1692 | 1.4 | | | 1.0 | 1.0 | 1.3 | 1.0 | 1.5 |
| K1144 | 1.4 | | | 1.0 | 1.0 | 1.3 | 1.3 | 1.7 |
| K1145 | 1.2 | | | 1.0 | 1.0 | 1.3 | 1.0 | 1.3 |
| K1146 | 1.4 | | | 1.0 | 1.0 | 1.3 | 1.0 | 1.7 |
| K1148 | 1.8 | | | 1.0 | 2.0 | 1.4 | 1.5 | 2.3 |
| L83-3804 | 2.3 | | | 2.5 | 1.5 | 3.0 | 1.7 | 2.2 |
| LN82-2366 | 1.7 | | | 1.0 | 1.0 | 1.7 | 1.5 | 2.0 |
| LN84-452 | 1.4 | | | 1.0 | 1.0 | 1.3 | 1.0 | 1.8 |
| LN84-4037 | 1.2 | | | 1.0 | 1.0 | 1.2 | 1.0 | 1.0 |
| LN84-4082 | 1.7 | | | 1.8 | 2.0 | 2.0 | 1.3 | 2.0 |
| LN84-9583 | 1.6 | | | 1.0 | 1.0 | 1.9 | 1.0 | 1.8 |
| Md81-0953 | 1.7 | | | 1.0 | 1.0 | 1.6 | 1.7 | 2.5 |
| S83-1004 | 1.7 | | | 1.6 | 1.5 | 1.9 | 1.5 | 1.8 |
| S85-1084 | 1.6 | | | 1.0 | 1.0 | 1.9 | 1.5 | 1.5 |

### PLANT HEIGHT (inches)

| Strain | Mean 18 Tests | | | | | |
|---|---|---|---|---|---|---|
| Flyer (E) | 35 | 39 | 33 | 40 | 36 | 40 |
| Pennyrile (L) | 42 | 45 | 39 | 49 | 46 | 51 |
| Pyramid (SCN) | 44 | 49 | 39 | 55 | 49 | 53 |
| Ripley (dt) | 25 | 27 | 18 | 30 | 31 | 32 |
| Spencer (IV) | 37 | 35 | 33 | 42 | 40 | 45 |
| C1692 | 37 | 39 | 34 | 45 | 41 | 40 |
| K1144 | 39 | 41 | 37 | 46 | 43 | 45 |
| K1145 | 35 | 37 | 33 | 41 | 36 | 37 |
| K1146 | 35 | 29 | 33 | 43 | 39 | 39 |
| K1148 | 39 | 39 | 35 | 47 | 38 | 41 |
| L83-3804 | 36 | 38 | 28 | 42 | 46 | 44 |
| LN82-2366 | 34 | 31 | 31 | 42 | 39 | 38 |
| LN84-452 | 34 | 28 | 32 | 40 | 34 | 37 |
| LN84-4037 | 32 | 33 | 29 | 38 | 32 | 34 |
| LN84-4082 | 36 | 39 | 34 | 41 | 40 | 40 |
| LN84-9583 | 36 | 40 | 35 | 42 | 36 | 40 |
| Md81-0953 | 39 | 39 | 37 | 47 | 44 | 47 |
| S83-1004 | 40 | 43 | 38 | 49 | 43 | 46 |
| S85-1084 | 42 | 48 | 38 | 53 | 44 | 48 |

## UNIFORM TEST IV, 1988

### LODGING (score)

| Strain | Manhat-tan KS | Ottawa KS | Powhat-tan KS | Lexing-ton KY | Queens-town MD | Colum-bia MO | Portageville Clay MO | Portageville Loam MO | Lincoln NE |
|---|---|---|---|---|---|---|---|---|---|
| Flyer (E) | 2.0 | | 1.0 | 1.7 | 2.0 | 1.0 | 1.0 | 1.5 | 1.0 |
| Pennyrile (L) | 2.7 | | 1.0 | 1.5 | 2.2 | 1.3 | 1.0 | 1.0 | 1.0 |
| Pyramid (SCN) | 2.7 | | 1.0 | 2.2 | 2.8 | 1.0 | 1.0 | 2.0 | 1.0 |
| Ripley (dt) | 1.0 | | 1.0 | 1.8 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| Spencer (IV) | 1.7 | | 1.0 | 1.5 | 1.7 | 1.3 | 1.0 | 1.0 | 1.0 |
| C1692 | 1.7 | | 1.0 | 1.8 | 2.0 | 1.0 | 1.0 | 2.0 | 1.0 |
| K1144 | 1.3 | | 1.0 | 2.3 | 2.0 | 1.0 | 1.0 | 1.5 | 1.0 |
| K1145 | 1.3 | | 1.0 | 1.5 | 1.2 | 1.0 | 1.0 | 1.0 | 1.0 |
| K1146 | 2.0 | | 1.0 | 1.5 | 2.0 | 1.0 | 1.0 | 1.5 | 1.0 |
| K1148 | 3.3 | | 1.0 | 2.3 | 2.8 | 1.0 | 1.0 | 2.0 | 1.3 |
| L83-3804 | 2.0 | | 1.0 | 3.3 | 3.2 | 1.7 | 1.0 | 1.5 | 1.0 |
| LN82-2366 | 3.0 | | 1.0 | 1.7 | 2.2 | 1.0 | 1.0 | 1.5 | 1.0 |
| LN84-452 | 2.0 | | 1.0 | 1.7 | 1.7 | 1.0 | 1.0 | 2.0 | 1.0 |
| LN84-4037 | 1.0 | | 1.3 | 1.3 | 2.0 | 1.0 | 1.0 | 1.5 | 1.0 |
| LN84-4082 | 2.0 | | 1.0 | 1.8 | 2.0 | 1.0 | 1.0 | 2.5 | 1.0 |
| LN84-9583 | 3.3 | | 1.0 | 1.2 | 2.0 | 1.0 | 1.0 | 2.0 | 1.0 |
| Md81-0953 | 3.3 | | 1.0 | 2.3 | 2.0 | 1.0 | 1.0 | 2.5 | 1.0 |
| S83-1004 | 2.7 | | 1.0 | 1.7 | 2.2 | 1.0 | 1.0 | 2.5 | 1.0 |
| S85-1084 | 1.7 | | 1.0 | 2.3 | 2.2 | 1.0 | 1.5 | 1.5 | 1.0 |

### PLANT HEIGHT (inches)

| Strain | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Flyer (E) | 44 | | 29 | 32 | 30 | | 22 | 35 | 44 |
| Pennyrile (L) | 47 | | 34 | 39 | 36 | | 25 | 43 | 57 |
| Pyramid (SCN) | 47 | | 38 | 41 | 42 | | 23 | 49 | 52 |
| Ripley (dt) | 27 | | 23 | 29 | 25 | | 11 | 10 | 27 |
| Spencer (IV) | 51 | | 29 | 37 | 35 | | 22 | 39 | 49 |
| C1692 | 48 | | 32 | 33 | 34 | | 16 | 42 | 52 |
| K1144 | 51 | | 34 | 37 | 38 | | 19 | 44 | 50 |
| K1145 | 49 | | 29 | 30 | 32 | | 17 | 36 | 48 |
| K1146 | 43 | | 27 | 31 | 31 | | 21 | 39 | 45 |
| K1148 | 46 | | 34 | 38 | 34 | | 26 | 41 | 52 |
| L83-3804 | 31 | | 36 | 36 | 38 | | 18 | 30 | 38 |
| LN82-2366 | 43 | | 30 | 28 | 30 | | 18 | 37 | 47 |
| LN84-452 | 44 | | 28 | 30 | 30 | | 23 | 41 | 45 |
| LN84-4037 | 43 | | 26 | 27 | 28 | | 14 | 39 | 46 |
| LN84-4082 | 46 | | 29 | 31 | 32 | | 21 | 42 | 49 |
| LN84-9583 | 47 | | 29 | 33 | 32 | | 16 | 41 | 46 |
| Md81-0953 | 46 | | 30 | 38 | 34 | | 25 | 43 | 50 |
| S83-1004 | 52 | | 33 | 36 | 35 | | 20 | 47 | 52 |
| S85-1084 | 49 | | 35 | 35 | 39 | | 28 | 47 | 53 |

## UNIFORM TEST IV, 1988

### LODGING (score)

| Strain | Adel-phia NJ | Ripley OH | South Charleston OH | Landis-ville PA | Lubbock TX | Orange VA |
|---|---|---|---|---|---|---|
| Flyer (E) | 1.0 | 1.3 | 1.5 | 2.2 | 1.7 | 1.0 |
| Pennyrile (L) | 1.0 | 1.5 | 1.5 | 2.5 | 1.5 | 1.3 |
| Pyramid (SCN) | 1.0 | 2.1 | 2.2 | 3.0 | 2.0 | 1.3 |
| Ripley (dt) | 1.0 | 1.8 | 1.7 | 1.8 | 1.3 | 1.0 |
| Spencer (IV) | 1.0 | 1.3 | 1.3 | 2.0 | 1.5 | 1.0 |
| C1692 | 1.0 | 1.4 | 1.8 | 2.3 | 2.0 | 1.3 |
| K1144 | 1.0 | 1.4 | 1.7 | 2.5 | 1.7 | 1.3 |
| K1145 | 1.0 | 1.5 | 1.3 | 2.3 | 1.5 | 1.3 |
| K1146 | 1.0 | 1.4 | 2.0 | 2.7 | 2.0 | 1.3 |
| K1148 | 1.3 | 1.4 | 2.3 | 3.2 | 1.5 | 2.0 |
| L83-3804 | 3.3 | 2.3 | 4.0 | 3.3 | 2.0 | 3.0 |
| LN82-2366 | 1.3 | 2.7 | 2.5 | 2.3 | 1.7 | 1.3 |
| LN84-452 | 1.0 | 1.2 | 1.5 | 2.2 | 2.0 | 1.3 |
| LN84-4037 | 1.0 | 1.3 | 1.3 | 2.2 | 1.5 | 1.0 |
| LN84-4082 | 1.0 | 1.8 | 2.7 | 2.3 | 2.0 | 1.3 |
| LN84-9583 | 1.0 | 2.2 | 1.8 | 2.7 | 1.7 | 1.3 |
| Md81-0953 | 1.0 | 1.6 | 2.3 | 2.7 | 1.5 | 1.7 |
| S83-1004 | 1.3 | 1.5 | 1.5 | 2.7 | 1.5 | 1.7 |
| S85-1084 | 1.0 | 1.6 | 1.8 | 2.8 | 2.0 | 1.3 |

### PLANT HEIGHT (inches)

| Strain | | | | | | |
|---|---|---|---|---|---|---|
| Flyer (E) | 26 | 34 | 43 | 39 | 22 | 35 |
| Pennyrile (L) | 35 | 41 | 50 | 41 | 31 | 38 |
| Pyramid (SCN) | 32 | 42 | 49 | 47 | 36 | 41 |
| Ripley (dt) | 23 | 28 | 34 | 26 | 16 | 24 |
| Spencer (IV) | 27 | 38 | 49 | 42 | 23 | 35 |
| C1692 | 28 | 36 | 44 | 40 | 25 | 33 |
| K1144 | 30 | 38 | 44 | 42 | 25 | 40 |
| K1145 | 25 | 37 | 42 | 41 | 30 | 34 |
| K1146 | 28 | 32 | 40 | 41 | 27 | 35 |
| K1148 | 32 | 36 | 45 | 43 | 31 | 39 |
| L83-3804 | 38 | 41 | 45 | 38 | 25 | 35 |
| LN82-2366 | 26 | 33 | 40 | 40 | 23 | 33 |
| LN84-452 | 27 | 32 | 40 | 38 | 26 | 31 |
| LN84-4037 | 25 | 31 | 38 | 39 | 22 | 30 |
| LN84-4082 | 29 | 30 | 43 | 37 | 26 | 33 |
| LN84-9583 | 28 | 37 | 41 | 41 | 25 | 38 |
| Md81-0953 | 27 | 38 | 47 | 40 | 26 | 37 |
| S83-1004 | 32 | 39 | 42 | 44 | 28 | 37 |
| S85-1084 | 34 | 39 | 49 | 42 | 29 | 37 |

## UNIFORM TEST IV, 1988

### SEED QUALITY (score)

| Strain | Mean 17 Tests | George-town DE | Middle-town DE | Belle-ville IL | Carbon-dale IL | Eldor-ado IL | Lafay-ette IN | Vince-nnes IN |
|---|---|---|---|---|---|---|---|---|
| Flyer (E) | 1.5 | | | 1.0 | 2.0 | 2.3 | 1.0 | 1.0 |
| Pennyrile (L) | 2.2 | | | 3.0 | 2.0 | 2.7 | 1.5 | 1.5 |
| Pyramid (SCN) | 1.9 | | | 2.0 | 2.0 | 3.3 | 1.5 | 1.5 |
| Ripley (dt) | 1.5 | | | 1.0 | 2.0 | 2.0 | 1.0 | 1.0 |
| Spencer (IV) | 2.2 | | | 3.0 | 3.0 | 3.2 | 1.5 | 1.0 |
| C1692 | 2.1 | | | 2.0 | 2.0 | 2.8 | 1.5 | 1.5 |
| K1144 | 1.9 | | | 2.0 | 2.5 | 2.8 | 1.0 | 1.0 |
| K1145 | 2.2 | | | 3.0 | 3.0 | 2.8 | 1.0 | 1.5 |
| K1146 | 2.1 | | | 2.0 | 2.0 | 2.3 | 1.0 | 1.5 |
| K1148 | 2.0 | | | 2.0 | 2.5 | 2.8 | 1.5 | 1.5 |
| L83-3804 | 1.8 | | | 2.0 | 2.0 | 2.7 | 1.5 | 1.5 |
| LN82-2366 | 1.9 | | | 2.0 | 2.0 | 2.7 | 1.0 | 1.5 |
| LN84-452 | 2.0 | | | 2.0 | 2.0 | 3.2 | 1.5 | 1.5 |
| LN84-4037 | 2.7 | | | 4.0 | 2.5 | 3.7 | 2.0 | 2.0 |
| LN84-4082 | 2.6 | | | 4.0 | 2.5 | 4.0 | 1.5 | 2.0 |
| LN84-9583 | 2.2 | | | 3.0 | 2.0 | 3.3 | 1.5 | 2.0 |
| Md81-0953 | 2.0 | | | 3.0 | 2.0 | 3.0 | 1.0 | 1.5 |
| S83-1004 | 1.7 | | | 2.0 | 2.5 | 2.2 | 1.0 | 1.0 |
| S85-1084 | 2.2 | | | 3.0 | 2.0 | 3.3 | 1.5 | 1.5 |

### SEED SIZE (g/100)

| Strain | Mean 16 Tests | | | | | | |
|---|---|---|---|---|---|---|---|
| Flyer (E) | 13.9 | | | 14.4 | 12.8 | 11.1 | 11.0 | 13.4 |
| Pennyrile (L) | 16.7 | | | 16.1 | 16.3 | 13.3 | 14.2 | 16.6 |
| Pyramid (SCN) | 15.1 | | | 14.1 | 15.6 | 12.2 | 14.7 | 15.5 |
| Ripley (dt) | 13.2 | | | 12.6 | 12.6 | 9.8 | 11.3 | 12.0 |
| Spencer (IV) | 16.7 | | | 15.9 | 14.7 | 13.7 | 13.6 | 16.0 |
| C1692 | 16.5 | | | 16.0 | 15.5 | 13.3 | 12.7 | 16.7 |
| K1144 | 15.0 | | | 15.3 | 14.7 | 11.8 | 12.7 | 14.1 |
| K1145 | 15.8 | | | 16.0 | 14.5 | 13.1 | 12.5 | 14.2 |
| K1146 | 15.4 | | | 14.5 | 14.7 | 12.1 | 11.6 | 13.9 |
| K1148 | 14.9 | | | 14.5 | 13.9 | 12.7 | 13.4 | 14.4 |
| L83-3804 | 16.4 | | | 16.5 | 16.2 | 11.1 | 13.9 | 15.8 |
| LN82-2366 | 16.2 | | | 15.0 | 15.9 | 13.3 | 12.3 | 16.4 |
| LN84-452 | 15.3 | | | 14.3 | 14.1 | 11.2 | 12.6 | 14.5 |
| LN84-4037 | 18.6 | | | 18.8 | 16.0 | 14.7 | 15.5 | 17.9 |
| LN84-4082 | 17.7 | | | 18.1 | 15.7 | 13.1 | 14.4 | 16.7 |
| LN84-9583 | 17.9 | | | 17.7 | 15.0 | 13.1 | 13.2 | 17.8 |
| Md81-0953 | 15.4 | | | 14.9 | 14.5 | 11.6 | 13.2 | 17.8 |
| S83-1004 | 13.0 | | | 12.1 | 12.4 | 10.2 | 11.1 | 12.0 |
| S85-1084 | 16.9 | | | 16.5 | 16.3 | 14.8 | 13.2 | 15.6 |

## UNIFORM TEST IV, 1988

### SEED QUALITY (score)

| Strain | Manhattan KS | Ottawa KS | Powhattan KS | Lexington KY | Queenstown MD | Columbia MO | Portageville Clay MO | Portageville Loam MO | Lincoln NE |
|---|---|---|---|---|---|---|---|---|---|
| Flyer (E) | 2.0 | | | 1.0 | 1.0 | | 2.5 | 2.0 | 1.0 |
| Pennyrile (L) | 3.0 | | | 2.0 | 3.5 | | 3.0 | 3.0 | 1.5 |
| Pyramid (SCN) | 2.0 | | | 2.0 | 1.5 | | 2.5 | 2.0 | 1.7 |
| Ripley (dt) | 2.0 | | | 1.0 | 1.7 | | 2.0 | 1.5 | 1.0 |
| Spencer (IV) | 2.0 | | | 2.0 | 2.0 | | 3.0 | 3.0 | 1.7 |
| C1692 | 3.0 | | | 2.0 | 3.3 | | 3.0 | 2.0 | 1.5 |
| K1144 | 3.0 | | | 2.0 | 2.0 | | 3.0 | 2.5 | 1.2 |
| K1145 | 3.0 | | | 2.0 | 2.8 | | 3.0 | 3.0 | 1.8 |
| K1146 | 3.0 | | | 3.0 | 3.8 | | 2.5 | 2.5 | 1.5 |
| K1148 | 2.0 | | | 2.0 | 1.8 | | 2.5 | 2.5 | 1.7 |
| L83-3804 | 2.0 | | | 2.0 | 1.5 | | 2.0 | 2.5 | 1.5 |
| LN82-2366 | 3.0 | | | 2.0 | 2.8 | | 2.5 | 2.0 | 1.2 |
| LN84-452 | 2.0 | | | 2.0 | 2.2 | | 3.0 | 2.5 | 1.5 |
| LN84-4037 | 3.0 | | | 3.0 | 4.0 | | 3.5 | 3.0 | 2.2 |
| LN84-4082 | 3.0 | | | 2.0 | 4.0 | | 3.0 | 2.5 | 2.2 |
| LN84-9583 | 3.0 | | | 3.0 | 2.8 | | 3.0 | 2.0 | 1.7 |
| Md81-0953 | 2.0 | | | 2.0 | 1.7 | | 2.0 | 3.0 | 1.8 |
| S83-1004 | 2.0 | | | 2.0 | 1.7 | | 2.0 | 2.0 | 1.8 |
| S85-1084 | 3.0 | | | 2.0 | 3.3 | | 3.0 | 3.0 | 1.5 |

### SEED SIZE (g/100)

| Strain | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Flyer (E) | 16.2 | | | 13.0 | 14.9 | 12.5 | | | 11.3 |
| Pennyrile (L) | 16.1 | | | 18.3 | 18.3 | 13.8 | | | 14.5 |
| Pyramid (SCN) | 14.2 | | | 17.7 | 15.8 | 12.9 | | | 14.0 |
| Ripley (dt) | 13.2 | | | 12.8 | 15.6 | 12.1 | | | 10.3 |
| Spencer (IV) | 16.7 | | | 17.1 | 19.0 | 14.0 | | | 13.2 |
| C1692 | 16.2 | | | 15.4 | 19.0 | 15.4 | | | 14.1 |
| K1144 | 15.9 | | | 15.4 | 16.9 | 12.6 | | | 12.8 |
| K1145 | 15.1 | | | 16.8 | 19.0 | 13.6 | | | 13.9 |
| K1146 | 15.4 | | | 15.7 | 18.2 | 13.4 | | | 14.4 |
| K1148 | 15.5 | | | 16.0 | 16.8 | 12.3 | | | 13.3 |
| L83-3804 | 16.2 | | | 18.6 | 18.3 | 13.6 | | | 14.9 |
| LN82-2366 | 18.7 | | | 14.8 | 18.8 | 14.4 | | | 14.7 |
| LN84-452 | 15.5 | | | 14.0 | 18.4 | 13.1 | | | 13.0 |
| LN84-4037 | 17.9 | | | 18.7 | 22.1 | 16.6 | | | 16.3 |
| LN84-4082 | 17.1 | | | 17.6 | 21.2 | 15.1 | | | 15.7 |
| LN84-9583 | 19.7 | | | 18.2 | 21.2 | 14.2 | | | 15.1 |
| Md81-0953 | 16.7 | | | 15.7 | 16.9 | 12.2 | | | 12.3 |
| S83-1004 | 14.2 | | | 14.0 | 14.3 | 11.4 | | | 12.9 |
| S85-1084 | 16.6 | | | 18.1 | 18.6 | 13.5 | | | 14.3 |

## UNIFORM TEST IV, 1988

### SEED QUALITY (score)

| Strain | Adel-phia NJ | Ripley OH | South Charleston OH | Landis-ville PA | Lubbock TX | Orange VA |
|---|---|---|---|---|---|---|
| Flyer (E) | 1.0 | 1.5 | 2.0 | 2.0 | 1.5 | 1.0 |
| Pennyrile (L) | 1.0 | 1.4 | 2.5 | 2.5 | 2.5 | 1.0 |
| Pyramid (SCN) | 1.0 | 1.5 | 1.5 | 3.0 | 2.0 | 1.0 |
| Ripley (dt) | 1.0 | 1.2 | 1.5 | 2.0 | 2.0 | 1.0 |
| Spencer (IV) | 1.0 | 2.3 | 2.5 | 2.0 | 3.0 | 1.0 |
| C1692 | 1.3 | 1.3 | 2.5 | 2.5 | 2.5 | 1.0 |
| K1144 | 1.0 | 1.2 | 1.5 | 2.5 | 2.3 | 1.0 |
| K1145 | 1.0 | 1.3 | 2.0 | 2.0 | 2.5 | 1.0 |
| K1146 | 1.7 | 1.2 | 2.0 | 2.5 | 2.0 | 1.0 |
| K1148 | 1.0 | 1.4 | 2.5 | 2.0 | 2.5 | 1.0 |
| L83-3804 | 1.0 | 1.1 | 2.0 | 3.0 | 2.0 | 1.0 |
| LN82-2366 | 1.0 | 1.4 | 2.0 | 2.5 | 2.0 | 1.0 |
| LN84-452 | 1.0 | 1.6 | 2.5 | 2.5 | 2.5 | 1.0 |
| LN84-4037 | 1.3 | 2.4 | 3.0 | 2.5 | 2.5 | 1.0 |
| LN84-4082 | 1.0 | 1.8 | 3.0 | 3.0 | 3.0 | 1.0 |
| LN84-9583 | 1.0 | 1.8 | 2.0 | 2.5 | 2.5 | 1.0 |
| Md81-0953 | 1.0 | 1.2 | 2.0 | 2.5 | 2.5 | 1.0 |
| S83-1004 | 1.0 | 1.1 | 1.5 | 2.5 | 1.5 | 1.0 |
| S85-1084 | 1.3 | 1.8 | 2.0 | 1.5 | 2.5 | 1.0 |

### SEED SIZE (g/100)

| Strain | | | | | | |
|---|---|---|---|---|---|---|
| Flyer (E) | 17.3 | 13.9 | 12.2 | 17.7 | 16.5 | 14.3 |
| Pennyrile (L) | 19.3 | 17.5 | 14.7 | 19.8 | 19.7 | 18.0 |
| Pyramid (SCN) | 17.3 | 15.8 | 13.6 | 16.9 | 16.2 | 15.5 |
| Ripley (dt) | 16.0 | 12.8 | 12.9 | 16.0 | 16.7 | 14.4 |
| Spencer (IV) | 22.3 | 16.3 | 15.5 | 20.7 | 20.3 | 18.2 |
| C1692 | 20.3 | 15.3 | 15.0 | 20.1 | 20.8 | 17.9 |
| K1144 | 17.3 | 15.3 | 13.5 | 19.3 | 16.6 | 16.1 |
| K1145 | 18.7 | 15.5 | 13.6 | 19.4 | 19.3 | 16.8 |
| K1146 | 18.0 | 15.4 | 14.6 | 19.3 | 18.4 | 17.1 |
| K1148 | 17.0 | 15.6 | 12.5 | 17.9 | 17.3 | 15.5 |
| L83-3804 | 19.3 | 17.2 | 16.0 | 18.2 | 19.5 | 16.5 |
| LN82-2366 | 18.7 | 13.9 | 15.2 | 19.7 | 20.4 | 17.3 |
| LN84-452 | 19.3 | 14.0 | 14.9 | 20.8 | 18.1 | 16.5 |
| LN84-4037 | 22.3 | 17.5 | 18.0 | 22.3 | 22.4 | 20.6 |
| LN84-4082 | 21.0 | 16.0 | 16.9 | 23.2 | 21.9 | 19.2 |
| LN84-9583 | 25.0 | 17.0 | 15.9 | 23.4 | 20.6 | 19.5 |
| Md81-0953 | 19.3 | 14.5 | 14.0 | 20.0 | 16.7 | 16.4 |
| S83-1004 | 15.7 | 13.1 | 10.8 | 15.4 | 14.7 | 13.6 |
| S85-1084 | 20.3 | 17.2 | 16.2 | 21.4 | 19.7 | 18.6 |

## UNIFORM TEST IV, 1988

### PROTEIN (%)

| Strain | Mean 5 Tests | Vincennes IN | Manhattan KS | Lexington KY | Queenstown MD | Ripley OH |
|---|---|---|---|---|---|---|
| Flyer (E) | 40.9 | 43.3 | 41.3 | 39.9 | 39.5 | 40.6 |
| Pennyrile (L) | 41.9 | 44.1 | 42.2 | 41.2 | 41.3 | 40.8 |
| Pyramid (SCN) | 39.4 | 41.1 | 39.0 | 39.1 | 38.8 | 38.8 |
| Ripley (dt) | 39.3 | 40.4 | 37.9 | 40.3 | 39.1 | 38.9 |
| Spencer (IV) | 40.0 | 41.6 | 40.3 | 38.7 | 38.6 | 40.8 |
| C1692 | 40.3 | 40.8 | 41.0 | 40.6 | 39.6 | 39.7 |
| K1144 | 40.2 | 41.0 | 40.3 | 40.4 | 38.4 | 40.8 |
| K1145 | 42.4 | 42.6 | 41.5 | 42.9 | 42.0 | 42.9 |
| K1146 | 41.1 | 41.2 | 41.5 | 42.0 | 40.5 | 40.5 |
| K1148 | 41.6 | 42.8 | 41.3 | 41.3 | 41.4 | 41.3 |
| L83-3804 | 40.6 | 41.8 | 39.5 | 41.7 | 39.4 | 40.5 |
| LN82-2366 | 40.8 | 43.1 | 40.9 | 39.9 | 39.5 | 40.6 |
| LN84-452 | 39.9 | 41.6 | 39.3 | 40.2 | 39.0 | 39.5 |
| LN84-4037 | 40.3 | 41.6 | 39.8 | 40.9 | 38.5 | 40.9 |
| LN84-4082 | 41.3 | 42.3 | 41.0 | 41.9 | 40.7 | 40.8 |
| LN84-9583 | 41.1 | 42.5 | 40.3 | 40.6 | 40.4 | 41.6 |
| Md81-0953 | 40.5 | 42.2 | 40.6 | 39.3 | 39.5 | 40.8 |
| S83-1004 | 40.8 | 42.6 | 41.5 | 40.5 | 40.0 | 39.3 |
| S85-1084 | 41.8 | 42.5 | 40.1 | 43.2 | 41.3 | 42.1 |

### OIL (%)

| Strain | Mean 5 Tests | | | | | |
|---|---|---|---|---|---|---|
| Flyer (E) | 21.6 | 21.6 | 20.0 | 22.6 | 22.5 | 21.3 |
| Pennyrile (L) | 20.6 | 20.1 | 19.4 | 21.3 | 21.5 | 20.9 |
| Pyramid (SCN) | 20.5 | 20.5 | 19.6 | 20.8 | 20.8 | 20.8 |
| Ripley (dt) | 21.6 | 21.5 | 21.6 | 21.9 | 21.8 | 21.3 |
| Spencer (IV) | 21.6 | 20.9 | 20.5 | 23.4 | 22.1 | 21.1 |
| C1692 | 21.7 | 22.6 | 20.4 | 22.0 | 22.1 | 21.5 |
| K1144 | 19.9 | 20.4 | 19.3 | 20.5 | 19.6 | 19.5 |
| K1145 | 20.4 | 20.9 | 19.5 | 20.9 | 20.6 | 19.9 |
| K1146 | 21.1 | 21.5 | 19.7 | 21.5 | 21.3 | 21.5 |
| K1148 | 21.1 | 20.9 | 20.6 | 21.7 | 21.2 | 21.0 |
| L83-3804 | 20.9 | 21.1 | 19.5 | 21.8 | 20.7 | 21.6 |
| LN82-2366 | 21.8 | 21.6 | 20.4 | 23.2 | 22.1 | 21.9 |
| LN84-452 | 21.4 | 22.0 | 19.9 | 21.5 | 22.0 | 21.5 |
| LN84-4037 | 21.2 | 21.6 | 20.3 | 21.2 | 22.2 | 20.9 |
| LN84-4082 | 21.6 | 22.3 | 20.4 | 22.2 | 21.6 | 21.7 |
| LN84-9583 | 21.4 | 21.1 | 21.0 | 21.9 | 22.0 | 21.0 |
| Md81-0953 | 21.4 | 21.2 | 20.4 | 22.8 | 21.3 | 21.2 |
| S83-1004 | 20.8 | 20.9 | 19.2 | 22.4 | 20.5 | 20.8 |
| S85-1084 | 20.9 | 21.4 | 20.3 | 20.8 | 21.2 | 21.0 |

## UNIFORM PRELIMINARY TEST IVA, 1988

| Strain | Parentage | Generation Composited | Unique Traits |
|---|---|---|---|
| Flyer (E) | Asgrow A3127 (4) x Williams 82 | BC3 F2 | Rps1-k |
| Pennyrile | Williams x Essex | F5 | |
| Spencer (IV) | A75-305022 x Century | F5 | |
| C1737 | A80-344003 x Century 84 | F6 | Rps1-k |
| C1738 | A80-344003 x Century 84 | F6 | Rps1-k |
| C1739 | A80-344003 x Century 84 | F6 | Rps1-k |
| C1740 | A80-344003 x Century 84 | F6 | Rps1-k |
| C1741 | A80-344003 x Century 84 | F6 | Rps1-k |
| C1742 | A80-344003 x Century 84 | F6 | Rps1-k |
| C1743 | A80-344003 x Century 84 | F6 | Rps1-k |
| C1745 | A80-344003 x Century 84 | F6 | Rps1-k |
| K81-21-155 | Cumberland x DeSoto | F5 | |
| K82-1-48 | Asgrow A4268 x Asgrow A3127 | F5 | |
| K82-1-92 | Asgrow A4268 x Asgrow A3127 | F5 | |
| K82-1-138 | Asgrow A4268 x Asgrow A3127 | F5 | |
| K82-1-201 | Asgrow A4268 x Asgrow A3127 | F5 | |
| K82-1-210 | Asgrow A4268 x Asgrow A3127 | F5 | |
| KY85-01115 | Pennyrile x Harper | F5 | |
| KY85-10085 | Pennyrile x Harper | F5 | |
| KY85-10106 | Pennyrile x Harper | F5 | |
| LN84-978 | A78-227015 x Asgrow A3127 | F5 | |
| LN84-1304 | A78-227015 x Asgrow A3127 | F5 | Rps1 |
| LN84-2068 | A78-236003 x Asgrow A3127 | F5 | |
| LN84-13380 | NK S1492 x Asgrow A3127 | F5 | |
| LN84-14484 | NK S1492 x Harper | F5 | |
| LN84-15424 | LN80-9447 X Asgrow A3127 | F5 | |
| LN84-15496 | LN80-9447 X Asgrow A3127 | F5 | rxp |
| LN84-18924 | LN80-9452 X Asgrow A3127 | F5 | rxp |
| LN84-19128 | LN80-9452 X Asgrow A3127 | F5 | |
| LN84-19202 | LN80-9452 X Asgrow A3127 | F5 | |

## UNIFORM PRELIMINARY TEST IVA, 1988

### DESCRIPTIVE DATA

| Strain | Descriptive Code | Shattering Score | | | Mottl. Score |
|---|---|---|---|---|---|
| | | Carbondale | Eldorado | Manhattan | Eldorado |
| Flyer (E) | PTTSYBl | 2.0 | 1.0 | 1 | 2.0 |
| Pennyrile | WTBSYBl | 2.0 | 1.0 | 1 | 2.5 |
| Spencer (IV) | WTBSYBr | 3.0 | 1.0 | 1 | 2.5 |
| C1737 | WTBSYBl | 3.5 | 1.0 | 2 | 2.0 |
| C1738 | WTBSYBr | 3.0 | 1.0 | 1 | 2.0 |
| C1739 | PTBSYBl+Br | 2.0 | 1.0 | 1 | 2.5 |
| C1740 | WTBSYBl | 3.0 | 1.0 | 2 | 2.5 |
| C1741 | WTBSYBr | 3.5 | 1.0 | 2 | 3.0 |
| C1742 | WTBSYBl | 3.0 | 1.0 | 1 | 2.0 |
| C1743 | WTBSYBr | 4.0 | 1.0 | 1 | 2.5 |
| C1745 | WTBSYBr | 3.0 | 1.0 | 1 | 2.0 |
| K81-21-155 | PGBDYIb | 3.0 | 1.0 | 1 | 1.5 |
| K82-1-48 | PTTSYBl | 2.0 | 1.0 | 1 | 2.5 |
| K82-1-92 | WTTDYBl | 2.0 | 1.0 | 1 | 2.0 |
| K82-1-138 | P+WTTDYBl | 2.0 | 1.0 | 1 | 2.0 |
| K82-1-201 | PTTDYBl | 1.5 | 1.0 | 1 | 2.0 |
| K82-1-210 | PTTSYBl | 2.0 | 1.0 | 1 | 2.0 |
| KY85-01115 | P+WTTSYBl | 2.5 | 1.0 | 1 | 1.5 |
| KY85-10085 | PTTSYBl | 3.0 | 1.0 | 1 | 2.5 |
| KY85-10106 | WTTSYBl | 2.0 | 1.0 | 1 | 2.0 |
| LN84-978 | WGTSYBf | 3.0 | 1.0 | 1 | 1.5 |
| LN84-1304 | PGBDYBf+Ib | 2.0 | 1.0 | 1 | 1.5 |
| LN84-2068 | WTTSYBl | 3.0 | 1.5 | 1 | 1.5 |
| LN84-13380 | WTBDYBf | 2.5 | 1.5 | 1 | 1.0 |
| LN84-14484 | WTBSYBr | 3.5 | 2.0 | 1 | 2.0 |
| LN84-15424 | WTTDYBl | 1.5 | 1.0 | 1 | 2.0 |
| LN84-15496 | WTBDYBl | 1.5 | 1.0 | 1 | 1.5 |
| LN84-18924 | WTTSYBl | 2.0 | 1.0 | 1 | 2.5 |
| LN84-19128 | WTBSYBl | 2.5 | 1.0 | 1 | 2.5 |
| LN84-19202 | WTTDYBl | 1.5 | 1.0 | 1 | 2.0 |

## UNIFORM PRELIMINARY TEST IVA, 1988

### DISEASE DATA

| Strain | PR | | | PS | PSB | SMV |
|---|---|---|---|---|---|---|
| | Castalia | Urbana | Lafayette | Lafayette | | |
| | Phyto. Tolerance | Race 1 | Race 7 | a rt | n % | a Score |
| Flyer (E) | 4.3 | H | H | | | |
| Pennyrile | 5.3 | S | S | | | |
| Spencer (IV) | 3.5 | S | S | | | |
| C1737 | 3.5 | R | R | | | |
| C1738 | 3.0 | R | R | | | |
| C1739 | 3.5 | R | R | | | |
| C1740 | 4.0 | R | R | | | |
| C1741 | 4.0 | R | R | | | |
| C1742 | 3.8 | R | R | | | |
| C1743 | 3.7 | R | R | | | |
| C1745 | 4.0 | R | R | | | |
| K81-21-155 | 3.8 | S | S | | | |
| K82-1-48 | 3.6 | S | S | | | |
| K82-1-92 | 3.0 | S | S | | | |
| K82-1-138 | 4.0 | S | S | | | |
| K82-1-201 | 4.0 | S | S | | | |
| K82-1-210 | 4.0 | S | S | | | |
| KY85-01115 | 4.3 | S | S | | | |
| KY85-10085 | 3.3 | S | S | | | |
| KY85-10106 | 3.5 | S | S | | | |
| LN84-978 | 4.4 | S | S | | | |
| LN84-1304 | 4.6 | R | S | | | |
| LN84-2068 | 5.3 | S | S | | | |
| LN84-13380 | 5.3 | S | S | | | |
| LN84-14484 | 4.0 | S | S | | | |
| LN84-15424 | 4.5 | S | S | | | |
| LN84-15496 | 5.3 | S | H | | | |
| LN84-18924 | 4.4 | S | S | | | |
| LN84-19128 | 4.8 | S | H | | | |
| LN84-19202 | 5.0 | S | S | | | |

# UNIFORM PRELIMINARY TEST IVA, 1988

## REGIONAL SUMMARY

| No. of Tests / Strain | Yield 9 bu/a | Rank 9 No. | Maturity 9 Date | Lodging 9 Score | Plant Height 9 In. | Seed Quality 9 Score | Seed Size 8 g/100 | Composition Protein 5 % | Composition Oil 5 % |
|---|---|---|---|---|---|---|---|---|---|
| Flyer (E) | 44.3 | 9 | -3.3 | 1.6 | 37 | 1.6 | 13.0 | 41.7 | 21.1 |
| Pennyrile | 42.6 | 20 | 7.6 | 1.7 | 45 | 2.2 | 16.0 | 42.4 | 20.3 |
| Spencer (IV) | 44.8 | 6 | 09/25.3* | 1.4 | 41 | 2.3 | 15.4 | 39.8 | 21.7 |
| C1737 | 41.7 | 25 | -0.3 | 1.5 | 37 | 2.7 | 14.7 | 42.5 | 20.4 |
| C1738 | 44.9 | 3 | 1.8 | 1.7 | 40 | 2.8 | 15.2 | 41.9 | 20.1 |
| C1739 | 43.6 | 12 | -2.1 | 1.5 | 37 | 2.8 | 15.3 | 41.9 | 20.9 |
| C1740 | 43.4 | 16 | -1.9 | 1.5 | 37 | 2.3 | 15.3 | 41.0 | 21.1 |
| C1741 | 43.1 | 17 | 1.2 | 1.4 | 37 | 2.3 | 15.6 | 42.5 | 19.8 |
| C1742 | 44.9 | 3 | -1.7 | 1.5 | 38 | 2.0 | 14.2 | 41.4 | 20.8 |
| C1743 | 42.1 | 22 | 0.9 | 1.5 | 39 | 2.5 | 15.6 | 41.3 | 20.6 |
| C1745 | 41.1 | 29 | -1.9 | 1.5 | 38 | 2.5 | 15.2 | 41.5 | 20.3 |
| K81-21-155 | 41.9 | 23 | -1.9 | 1.7 | 39 | 2.6 | 16.0 | 39.9 | 22.0 |
| K82-1-48 | 46.7 | 1 | 2.1 | 1.8 | 40 | 1.6 | 12.7 | 40.9 | 21.0 |
| K82-1-92 | 44.9 | 3 | -1.0 | 1.6 | 38 | 1.6 | 13.0 | 40.8 | 21.2 |
| K82-1-138 | 45.5 | 2 | 0.1 | 1.9 | 40 | 1.5 | 13.4 | 40.8 | 21.0 |
| K82-1-201 | 44.1 | 11 | 0.2 | 1.4 | 36 | 1.7 | 13.1 | 40.6 | 21.1 |
| K82-1-210 | 42.8 | 19 | -1.9 | 1.3 | 35 | 1.5 | 13.2 | 40.5 | 21.2 |
| KY85-01115 | 41.7 | 25 | -3.1 | 1.5 | 37 | 2.4 | 16.2 | 39.5 | 21.7 |
| KY85-10085 | 43.5 | 14 | 1.8 | 1.5 | 41 | 2.2 | 19.6 | 41.5 | 21.1 |
| KY85-10106 | 42.5 | 21 | 1.2 | 1.5 | 39 | 2.2 | 14.8 | 40.9 | 21.6 |
| LN84-978 | 44.7 | 7 | -1.7 | 1.5 | 38 | 1.7 | 14.2 | 40.4 | 20.1 |
| LN84-1304 | 44.5 | 8 | -3.2 | 1.7 | 38 | 1.9 | 13.6 | 40.5 | 21.3 |
| LN84-2068 | 43.6 | 12 | -4.4 | 2.1 | 40 | 1.7 | 12.8 | 39.6 | 21.4 |
| LN84-13380 | 40.4 | 30 | -3.3 | 1.8 | 39 | 2.1 | 13.4 | 41.1 | 21.2 |
| LN84-14484 | 41.8 | 24 | -7.7 | 2.1 | 37 | 2.0 | 13.3 | 40.9 | 21.2 |
| LN84-15424 | 41.3 | 28 | -6.0 | 1.7 | 35 | 1.3 | 11.5 | 40.2 | 21.1 |
| LN84-15496 | 44.3 | 9 | -4.0 | 1.3 | 33 | 1.9 | 13.6 | 40.3 | 20.9 |
| LN84-18924 | 41.7 | 25 | -6.2 | 1.8 | 35 | 1.9 | 12.9 | 41.9 | 21.0 |
| LN84-19128 | 42.9 | 18 | -5.1 | 2.0 | 38 | 1.7 | 11.8 | 40.5 | 21.6 |
| LN84-19202 | 43.5 | 14 | -4.0 | 1.8 | 35 | 2.3 | 13.1 | 40.7 | 21.9 |

* 132.4 Days after planting

## UNIFORM PRELIMINARY TEST IVA, 1988

### YIELD (bu/a)

| Strain | Mean 9 Tests | Carbon dale IL | Eldo rado IL | Vin- cennes IN | Man- hattan KS | Lexing ton KY | Queens town MD | Portage ville MO | Ripley OH | S.Charle ston OH |
|---|---|---|---|---|---|---|---|---|---|---|
| Flyer (E) | 44.3 | 34.6 | 39.7 | 40.9 | 63.8 | 33.0 | 51.7 | 36.4 | 38.2 | 60.8 |
| Pennyrile | 42.6 | 35.3 | 36.0 | 46.9 | 54.9 | 43.2 | 44.7 | 37.2 | 36.4 | 48.4 |
| Spencer (IV) | 44.8 | 37.2 | 39.1 | 44.0 | 57.4 | 35.5 | 51.8 | 44.0 | 37.0 | 57.2 |
| C1737 | 41.7 | 29.6 | 37.6 | 42.3 | 57.3 | 35.0 | 49.5 | 37.0 | 32.5 | 54.3 |
| C1738 | 44.9 | 37.1 | 36.9 | 60.3 | 51.7 | 33.8 | 49.1 | 40.5 | 40.8 | 53.7 |
| C1739 | 43.6 | 32.7 | 36.0 | 45.6 | 58.8 | 35.8 | 51.1 | 35.0 | 42.4 | 55.1 |
| C1740 | 43.4 | 35.1 | 40.4 | 42.0 | 59.5 | 34.3 | 51.5 | 35.0 | 36.9 | 55.8 |
| C1741 | 43.1 | 33.5 | 38.1 | 43.2 | 59.7 | 36.1 | 47.5 | 35.7 | 40.6 | 53.5 |
| C1742 | 44.9 | 35.6 | 37.5 | 54.8 | 53.5 | 37.4 | 52.4 | 36.6 | 45.7 | 50.8 |
| C1743 | 42.1 | 34.5 | 32.0 | 40.6 | 54.8 | 31.7 | 53.9 | 38.8 | 37.4 | 55.3 |
| C1745 | 41.1 | 33.6 | 32.3 | 48.6 | 59.9 | 32.1 | 48.2 | 30.1 | 33.7 | 51.5 |
| K81-21-155 | 41.9 | 31.2 | 36.0 | 43.8 | 60.0 | 34.8 | 48.2 | 37.5 | 31.1 | 54.5 |
| K82-1-48 | 46.7 | 38.1 | 39.5 | 50.8 | 60.9 | 39.9 | 51.0 | 41.6 | 40.2 | 58.6 |
| K82-1-92 | 44.9 | 35.5 | 37.9 | 55.9 | 65.4 | 33.3 | 48.7 | 34.4 | 38.8 | 54.1 |
| K82-1-138 | 45.5 | 37.8 | 43.2 | 51.9 | 57.4 | 35.6 | 51.1 | 40.0 | 38.3 | 54.4 |
| K82-1-201 | 44.1 | 33.4 | 39.4 | 47.1 | 57.5 | 36.7 | 52.7 | 38.4 | 36.4 | 55.7 |
| K82-1-210 | 42.8 | 33.1 | 40.3 | 41.1 | 54.2 | 31.8 | 47.7 | 39.2 | 41.9 | 55.6 |
| KY85-01115 | 41.7 | 37.2 | 33.7 | 48.0 | 52.7 | 30.5 | 46.4 | 39.5 | 38.6 | 48.7 |
| KY85-10085 | 43.5 | 36.3 | 41.2 | 44.8 | 47.1 | 35.7 | 50.9 | 42.1 | 39.6 | 54.0 |
| KY85-10106 | 42.5 | 31.7 | 36.2 | 49.2 | 52.5 | 33.3 | 48.1 | 36.9 | 40.6 | 53.8 |
| LN84-978 | 44.7 | 37.6 | 36.5 | 45.8 | 67.8 | 36.0 | 49.0 | 36.8 | 39.1 | 54.1 |
| LN84-1304 | 44.5 | 37.0 | 37.1 | 43.5 | 58.5 | 32.4 | 53.0 | 36.7 | 45.1 | 57.0 |
| LN84-2068 | 43.6 | 32.8 | 33.8 | 44.3 | 64.2 | 33.3 | 48.3 | 37.9 | 38.0 | 59.7 |
| LN84-13380 | 40.4 | 30.7 | 32.5 | 38.2 | 55.9 | 31.0 | 46.6 | 39.3 | 34.1 | 54.9 |
| LN84-14484 | 41.8 | 33.8 | 31.5 | 40.9 | 61.2 | 31.9 | 46.1 | 34.1 | 37.8 | 59.0 |
| LN84-15424 | 41.3 | 32.2 | 35.4 | 40.1 | 59.9 | 28.5 | 48.5 | 34.7 | 35.9 | 56.7 |
| LN84-15496 | 44.3 | 32.7 | 39.7 | 33.6 | 68.8 | 32.6 | 50.0 | 40.9 | 43.8 | 57.0 |
| LN84-18924 | 41.7 | 27.2 | 32.5 | 40.8 | 63.0 | 28.2 | 49.4 | 40.0 | 33.0 | 61.3 |
| LN84-19128 | 42.9 | 31.0 | 36.2 | 44.8 | 62.1 | 30.7 | 46.9 | 34.1 | 40.4 | 59.6 |
| LN84-19202 | 43.5 | 27.1 | 42.4 | 36.8 | 67.1 | 35.0 | 48.6 | 32.3 | 39.8 | 62.0 |
| C.V. (%) | | 11.9 | 6.0 | 12.3 | 9.2 | 8.0 | 5.6 | 9.4 | 11.9 | 6.2 |
| L.S.D. (5%) | | 8.2 | 4.4 | 11.3 | 11.1 | 3.6 | ns | 7.2 | ns | 7.0 |
| Row Sp. (In.) | | 30 | 30 | 15 | 30 | 30 | 30 | 30 | 30 | 7 |
| Rows/Plot | | 4 | 4 | 5 | 4 | 4 | 4 | 4 | 4 | 8 |
| Reps | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |

# UNIFORM PRELIMINARY TEST IVA, 1988

## YIELD RANK

| Strain | Yield Rank | Carbondale IL | Eldorado IL | Vincennes IN | Manhattan KS | Lexington KY | Queenstown MD | Portageville MO | Ripley OH | S.Charleston OH |
|---|---|---|---|---|---|---|---|---|---|---|
| Flyer (E) | 9 | 13 | 6 | 23 | 6 | 19 | 6 | 21 | 17 | 3 |
| Pennyrile | 20 | 11 | 20 | 10 | 23 | 1 | 30 | 15 | 23 | 30 |
| Spencer (IV) | 6 | 4 | 10 | 16 | 19 | 10 | 5 | 1 | 21 | 8 |
| C1737 | 25 | 28 | 13 | 20 | 21 | 11 | 13 | 16 | 29 | 20 |
| C1738 | 3 | 6 | 16 | 1 | 29 | 15 | 15 | 5 | 6 | 25 |
| C1739 | 12 | 21 | 20 | 12 | 16 | 7 | 8 | 23 | 4 | 16 |
| C1740 | 16 | 12 | 4 | 21 | 15 | 14 | 7 | 23 | 22 | 12 |
| C1741 | 17 | 17 | 11 | 19 | 14 | 5 | 25 | 22 | 7 | 26 |
| C1742 | 3 | 9 | 14 | 3 | 26 | 3 | 4 | 20 | 1 | 28 |
| C1743 | 22 | 14 | 29 | 26 | 24 | 25 | 1 | 11 | 20 | 15 |
| C1745 | 29 | 16 | 28 | 7 | 12 | 22 | 21 | 30 | 27 | 27 |
| K81-21-155 | 23 | 25 | 20 | 17 | 11 | 13 | 21 | 14 | 30 | 18 |
| K82-1-48 | 1 | 1 | 8 | 5 | 10 | 2 | 10 | 3 | 10 | 7 |
| K82-1-92 | 3 | 10 | 12 | 2 | 4 | 16 | 17 | 26 | 14 | 21 |
| K82-1-138 | 2 | 2 | 1 | 4 | 19 | 9 | 8 | 6 | 16 | 19 |
| K82-1-201 | 11 | 18 | 9 | 9 | 18 | 4 | 3 | 12 | 23 | 13 |
| K82-1-210 | 19 | 19 | 5 | 22 | 25 | 24 | 24 | 10 | 5 | 14 |
| KY85-01115 | 25 | 4 | 25 | 8 | 27 | 28 | 28 | 8 | 15 | 29 |
| KY85-10085 | 14 | 8 | 3 | 13 | 30 | 8 | 11 | 2 | 12 | 23 |
| KY85-10106 | 21 | 24 | 18 | 6 | 28 | 16 | 23 | 17 | 7 | 24 |
| LN84-978 | 7 | 3 | 17 | 11 | 2 | 6 | 16 | 18 | 13 | 21 |
| LN84-1304 | 8 | 7 | 15 | 18 | 17 | 21 | 2 | 19 | 2 | 9 |
| LN84-2068 | 12 | 20 | 24 | 15 | 5 | 16 | 20 | 13 | 18 | 4 |
| LN84-13380 | 30 | 27 | 26 | 28 | 22 | 26 | 27 | 9 | 26 | 17 |
| LN84-14484 | 24 | 15 | 30 | 23 | 9 | 23 | 29 | 27 | 19 | 6 |
| LN84-15424 | 28 | 23 | 23 | 27 | 12 | 29 | 19 | 25 | 25 | 11 |
| LN84-15496 | 9 | 21 | 6 | 30 | 1 | 20 | 12 | 4 | 3 | 9 |
| LN84-18924 | 25 | 29 | 26 | 25 | 7 | 30 | 14 | 6 | 28 | 2 |
| LN84-19128 | 18 | 26 | 18 | 13 | 8 | 27 | 26 | 27 | 9 | 5 |
| LN84-19202 | 14 | 30 | 2 | 29 | 3 | 11 | 18 | 29 | 11 | 1 |

## UNIFORM PRELIMINARY TEST IVA, 1988

### MATURITY (date)

| Strain | Mean 9 Tests | Carbon dale IL | Eldo rado IL | Vin- cennes IN | Man- hattan KS | Lexing ton KY | Queens town MD | Portage ville MO | Ripley OH | S.Charle ston OH |
|---|---|---|---|---|---|---|---|---|---|---|
| Flyer (E) | -3.3 | -3 | 0 | -6 | -2 | -3 | -7 | -5 | -3 | -1 |
| Pennyrile | 7.6 | 7 | 10 | 9 | 8 | 7 | 0 | 9 | 7 | 11 |
| Spencer (IV) | 9/25.3 | 09/21 | 09/16 | 09/18 | 09/29 | 09/29 | 10/05 | 09/28 | 09/21 | 10/01 |
| C1737 | -0.3 | -2 | 1 | 0 | 0 | -3 | 0 | -2 | 2 | 1 |
| C1738 | 1.8 | 1 | 3 | 5 | 0 | 2 | 0 | -4 | 3 | 6 |
| C1739 | -2.1 | -2 | -1 | -3 | -2 | -3 | -4 | -4 | 0 | 0 |
| C1740 | -1.9 | -3 | 1 | 0 | -3 | -3 | -5 | -4 | 0 | 0 |
| C1741 | 1.2 | 1 | 3 | 2 | 0 | 2 | -2 | -3 | 3 | 5 |
| C1742 | -1.7 | -2 | 0 | 0 | -1 | -2 | -6 | -5 | 1 | 0 |
| C1743 | 0.9 | 1 | 0 | 1 | 0 | 0 | 1 | -2 | 3 | 4 |
| C1745 | -1.9 | -2 | 0 | -1 | -1 | -5 | -4 | -5 | 1 | 0 |
| K81-21-155 | -1.9 | -4 | 0 | -2 | 0 | -5 | -3 | -4 | 4 | -3 |
| K82-1-48 | 2.1 | 5 | 5 | 3 | 1 | 0 | -1 | -4 | 3 | 7 |
| K82-1-92 | -1.0 | 1 | 1 | 1 | 0 | -5 | -6 | -2 | 0 | 1 |
| K82-1-138 | 0.1 | 2 | 2 | 2 | 0 | -3 | -4 | -3 | 2 | 3 |
| K82-1-201 | 0.2 | 1 | 3 | 2 | -1 | 0 | -6 | -2 | 2 | 3 |
| K82-1-210 | -1.9 | -1 | 3 | -1 | -2 | -3 | -7 | -6 | 0 | 0 |
| KY85-01115 | -3.1 | -3 | -1 | -1 | -2 | -7 | -5 | -2 | -3 | -4 |
| KY85-10085 | 1.8 | 6 | 6 | 4 | 0 | -3 | 1 | -1 | 1 | 2 |
| KY85-*10106* | 1.2 | 5 | 3 | 2 | 0 | -3 | 0 | 0 | 1 | 3 |
| LN84-978 | -1.7 | -4 | -1 | 0 | 0 | -1 | -2 | -5 | -1 | -1 |
| LN84-1304 | -3.2 | -4 | -2 | -2 | -2 | -7 | -5 | -4 | 0 | -3 |
| LN84-2068 | -4.4 | -2 | -2 | -6 | -3 | -7 | -6 | -6 | -5 | -3 |
| LN84-13380 | -3.3 | -2 | -3 | -3 | -1 | -7 | -6 | -4 | -2 | -2 |
| LN84-14484 | -7.7 | -2 | -7 | -10 | -3 | -17 | -11 | -6 | -9 | -4 |
| LN84-15424 | -6.0 | -2 | -5 | -9 | -5 | -9 | -7 | -6 | -7 | -4 |
| LN84-15496 | -4.0 | -4 | -3 | -4 | -2 | -7 | -4 | -6 | -4 | -2 |
| LN84-18924 | -6.2 | -3 | -7 | -7 | -3 | -12 | -7 | -5 | -9 | -3 |
| LN84-19128 | -5.1 | -3 | -5 | -5 | -2 | -12 | -6 | -4 | -7 | -2 |
| LN84-19202 | -4.0 | -3 | -3 | -6 | -1 | -7 | -2 | -4 | -8 | -2 |
| Date Planted | 05/15.9 | 05/14 | 05/10 | 05/05 | 05/27 | 05/18 | 06/01 | 05/31 | 05/03 | 05/03 |
| Days to Mature | 132 | 130 | 129 | 136 | 125 | 134 | 126 | 120 | 141 | 151 |

## UNIFORM PRELIMINARY TEST IVA, 1988

### LODGING (score)

| Strain | Mean 9 Tests | Carbon dale IL | Eldo rado IL | Vin- cennes IN | Man- hattan KS | Lexing ton KY | Queens town MD | Portage ville MO | Ripley OH | S.Charle ston OH |
|---|---|---|---|---|---|---|---|---|---|---|
| Flyer (E) | 1.6 | 1.0 | 1.2 | 1.0 | 2.0 | 1.8 | 2.0 | 2.5 | 1.1 | 1.8 |
| Pennyrile | 1.7 | 1.0 | 1.3 | 1.5 | 3.0 | 1.5 | 2.5 | 1.5 | 1.5 | 1.8 |
| Spencer (IV) | 1.4 | 1.0 | 1.3 | 1.0 | 2.0 | 1.2 | 2.0 | 1.5 | 1.3 | 1.3 |
| C1737 | 1.5 | 1.0 | 1.4 | 1.3 | 2.0 | 1.2 | 2.0 | 1.5 | 1.4 | 1.8 |
| C1738 | 1.7 | 1.0 | 1.3 | 1.3 | 2.0 | 1.8 | 2.0 | 2.5 | 1.4 | 1.8 |
| C1739 | 1.5 | 1.0 | 1.3 | 1.3 | 2.0 | 1.5 | 2.0 | 1.5 | 1.5 | 1.5 |
| C1740 | 1.5 | 1.0 | 1.3 | 1.3 | 2.0 | 1.5 | 2.0 | 1.5 | 1.7 | 1.5 |
| C1741 | 1.4 | 1.0 | 1.2 | 1.0 | 2.0 | 1.5 | 2.0 | 1.5 | 1.5 | 1.3 |
| C1742 | 1.5 | 1.0 | 1.3 | 1.3 | 2.0 | 1.2 | 2.0 | 2.0 | 1.6 | 1.3 |
| C1743 | 1.5 | 1.0 | 1.3 | 1.0 | 2.0 | 1.5 | 2.0 | 1.5 | 1.8 | 1.8 |
| C1745 | 1.5 | 1.0 | 1.2 | 1.3 | 2.0 | 1.5 | 2.0 | 1.5 | 1.4 | 1.3 |
| K81-21-155 | 1.7 | 1.5 | 1.3 | 1.3 | 2.0 | 1.5 | 2.3 | 2.0 | 1.4 | 2.0 |
| K82-1-48 | 1.8 | 1.0 | 1.3 | 1.5 | 2.5 | 2.0 | 2.5 | 2.5 | 1.7 | 1.5 |
| K82-1-92 | 1.6 | 1.0 | 1.3 | 1.8 | 2.0 | 1.2 | 2.3 | 1.5 | 1.4 | 2.3 |
| K82-1-138 | 1.9 | 1.0 | 1.3 | 1.5 | 2.5 | 1.8 | 2.5 | 2.5 | 1.6 | 2.0 |
| K82-1-201 | 1.4 | 1.0 | 1.2 | 1.0 | 2.0 | 1.5 | 2.0 | 1.0 | 1.5 | 1.5 |
| K82-1-210 | 1.3 | 1.0 | 1.2 | 1.3 | 1.5 | 1.2 | 2.0 | 1.5 | 1.1 | 1.0 |
| KY85-01115 | 1.5 | 1.0 | 1.2 | 1.5 | 2.0 | 1.0 | 2.0 | 1.5 | 1.5 | 1.5 |
| KY85-10085 | 1.5 | 1.0 | 1.3 | 1.0 | 2.0 | 1.8 | 2.3 | 1.5 | 1.5 | 1.3 |
| KY85-10106 | 1.5 | 1.0 | 1.3 | 1.0 | 2.0 | 1.5 | 2.0 | 1.5 | 1.7 | 1.5 |
| LN84-978 | 1.5 | 1.0 | 1.3 | 1.3 | 2.0 | 1.5 | 2.0 | 2.0 | 1.2 | 1.5 |
| LN84-1304 | 1.7 | 1.5 | 1.3 | 1.0 | 2.0 | 1.5 | 2.0 | 2.5 | 1.4 | 2.0 |
| LN84-2068 | 2.1 | 1.5 | 1.8 | 2.3 | 2.0 | 2.5 | 2.3 | 2.5 | 1.7 | 2.5 |
| LN84-13380 | 1.8 | 1.0 | 1.4 | 1.3 | 2.5 | 1.5 | 2.0 | 2.0 | 1.8 | 2.3 |
| LN84-14484 | 2.1 | 2.0 | 1.7 | 1.3 | 3.0 | 1.3 | 2.0 | 3.5 | 2.0 | 2.0 |
| LN84-15424 | 1.7 | 1.5 | 1.7 | 1.0 | 2.5 | 1.0 | 2.3 | 2.5 | 1.4 | 1.8 |
| LN84-15496 | 1.3 | 1.0 | 1.2 | 1.0 | 1.0 | 1.2 | 2.0 | 1.5 | 1.4 | 1.0 |
| LN84-18924 | 1.8 | 1.0 | 1.4 | 1.8 | 2.5 | 1.3 | 2.0 | 3.0 | 1.6 | 2.0 |
| LN84-19128 | 2.0 | 1.5 | 1.3 | 2.0 | 2.5 | 1.5 | 2.3 | 2.0 | 2.1 | 2.5 |
| LN84-19202 | 1.8 | 1.0 | 1.3 | 1.0 | 3.0 | 2.3 | 2.0 | 2.0 | 1.5 | 2.0 |

## UNIFORM PRELIMINARY TEST IVA, 1988

### PLANT HEIGHT (inches)

| Strain | Mean 9 Tests | Carbon dale IL | Eldo rado IL | Vin- cennes IN | Man- hattan KS | Lexing ton KY | Queens town MD | Portage ville MO | Ripley OH | S.Charle ston OH |
|---|---|---|---|---|---|---|---|---|---|---|
| Flyer (E) | 37 | 36 | 41 | 34 | 47 | 29 | 33 | 41 | 37 | 39 |
| Pennyrile | 45 | 43 | 50 | 46 | 57 | 38 | 40 | 37 | 46 | 48 |
| Spencer (IV) | 41 | 40 | 45 | 42 | 50 | 32 | 33 | 41 | 41 | 44 |
| C1737 | 37 | 35 | 44 | 31 | 48 | 29 | 30 | 37 | 35 | 43 |
| C1738 | 40 | 38 | 42 | 38 | 49 | 34 | 34 | 41 | 39 | 45 |
| C1739 | 37 | 33 | 44 | 33 | 45 | 30 | 33 | 35 | 37 | 41 |
| C1740 | 37 | 35 | 43 | 36 | 46 | 31 | 32 | 35 | 35 | 41 |
| C1741 | 37 | 35 | 44 | 36 | 47 | 31 | 30 | 31 | 39 | 41 |
| C1742 | 38 | 33 | 40 | 36 | 49 | 33 | 31 | 38 | 36 | 42 |
| C1743 | 39 | 36 | 42 | 37 | 50 | 32 | 34 | 38 | 39 | 42 |
| C1745 | 38 | 37 | 40 | 39 | 45 | 33 | 34 | 33 | 39 | 42 |
| K81-21-155 | 39 | 40 | 43 | 36 | 49 | 34 | 35 | 36 | 40 | 39 |
| K82-1-48 | 40 | 39 | 45 | 41 | 49 | 32 | 36 | 41 | 40 | 41 |
| K82-1-92 | 38 | 36 | 41 | 39 | 49 | 31 | 33 | 33 | 38 | 41 |
| K82-1-138 | 40 | 40 | 46 | 38 | 50 | 33 | 34 | 42 | 39 | 40 |
| K82-1-201 | 36 | 35 | 42 | 31 | 47 | 33 | 31 | 33 | 37 | 37 |
| K82-1-210 | 35 | 32 | 40 | 32 | 45 | 29 | 26 | 39 | 34 | 36 |
| KY85-01115 | 37 | 36 | 43 | 36 | 45 | 32 | 29 | 39 | 38 | 37 |
| KY85-10085 | 41 | 41 | 47 | 35 | 50 | 35 | 35 | 43 | 43 | 39 |
| KY85-10106 | 39 | 42 | 45 | 38 | 47 | 31 | 30 | 39 | 40 | 40 |
| LN84-978 | 38 | 37 | 44 | 37 | 51 | 31 | 32 | 41 | 35 | 37 |
| LN84-1304 | 38 | 39 | 45 | 32 | 49 | 29 | 31 | 42 | 38 | 39 |
| LN84-2068 | 40 | 39 | 45 | 37 | 48 | 35 | 32 | 43 | 38 | 40 |
| LN84-13380 | 39 | 37 | 45 | 40 | 49 | 30 | 32 | 42 | 35 | 40 |
| LN84-14484 | 37 | 35 | 43 | 38 | 43 | 28 | 30 | 40 | 36 | 37 |
| LN84-15424 | 35 | 36 | 38 | 34 | 45 | 30 | 31 | 35 | 33 | 36 |
| LN84-15496 | 33 | 33 | 38 | 31 | 44 | 28 | 25 | 34 | 32 | 35 |
| LN84-18924 | 35 | 35 | 39 | 34 | 45 | 27 | 29 | 40 | 35 | 35 |
| LN84-19128 | 38 | 36 | 40 | 36 | 47 | 29 | 33 | 37 | 39 | 41 |
| LN84-19202 | 35 | 34 | 40 | 27 | 45 | 29 | 28 | 38 | 41 | 36 |

## UNIFORM PRELIMINARY TEST IVA, 1988

### SEED QUALITY (score)

| Strain | Mean 9 Tests | Carbon dale IL | Eldo rado IL | Vin- cennes IN | Man- hattan KS | Lexing ton KY | Queens town MD | Portage ville MO | Ripley OH | S.Charle ston OH |
|---|---|---|---|---|---|---|---|---|---|---|
| Flyer (E) | 1.6 | 1.0 | 3.0 | 1.0 | 2.0 | 2.0 | 1.0 | 1.5 | 1.5 | 1.5 |
| Pennyrile | 2.2 | 2.0 | 2.5 | 1.5 | 2.0 | 2.0 | 3.5 | 3.0 | 1.7 | 1.5 |
| Spencer (IV) | 2.3 | 3.0 | 3.8 | 1.5 | 2.0 | 2.0 | 2.0 | 2.5 | 2.2 | 2.0 |
| C1737 | 2.7 | 3.0 | 3.0 | 1.5 | 3.0 | 3.0 | 3.3 | 2.5 | 2.6 | 2.0 |
| C1738 | 2.8 | 3.0 | 2.8 | 2.0 | 3.0 | 3.0 | 3.8 | 3.0 | 2.3 | 2.0 |
| C1739 | 2.8 | 4.0 | 2.8 | 2.0 | 3.0 | 3.0 | 4.0 | 2.5 | 2.3 | 1.5 |
| C1740 | 2.3 | 3.0 | 2.8 | 1.5 | 3.0 | 3.0 | 2.0 | 2.5 | 1.7 | 1.5 |
| C1741 | 2.3 | 3.0 | 3.0 | 1.5 | 2.0 | 3.0 | 2.0 | 3.0 | 1.9 | 1.5 |
| C1742 | 2.0 | 2.0 | 2.5 | 1.5 | 2.0 | 2.0 | 2.3 | 2.0 | 2.0 | 1.5 |
| C1743 | 2.5 | 3.0 | 2.8 | 1.0 | 2.0 | 2.0 | 3.8 | 3.0 | 2.9 | 2.0 |
| C1745 | 2.5 | 2.0 | 3.0 | 1.0 | 3.0 | 3.0 | 3.8 | 2.5 | 1.8 | 2.0 |
| K81-21-155 | 2.6 | 3.0 | 2.8 | 1.5 | 3.0 | 3.0 | 4.0 | 2.0 | 2.5 | 1.5 |
| K82-1-48 | 1.6 | 2.0 | 2.0 | 1.0 | 2.0 | 2.0 | 1.0 | 2.0 | 1.2 | 1.5 |
| K82-1-92 | 1.6 | 2.0 | 2.0 | 1.0 | 2.0 | 1.0 | 1.0 | 2.0 | 1.5 | 1.5 |
| K82-1-138 | 1.5 | 2.0 | 2.3 | 1.0 | 1.0 | 2.0 | 1.0 | 2.0 | 1.4 | 1.0 |
| K82-1-201 | 1.7 | 2.0 | 2.5 | 1.0 | 2.0 | 2.0 | 1.0 | 2.0 | 1.2 | 1.5 |
| K82-1-210 | 1.5 | 2.0 | 2.3 | 1.0 | 2.0 | 1.0 | 1.0 | 2.5 | 1.0 | 1.0 |
| KY85-01115 | 2.4 | 3.0 | 2.5 | 1.5 | 3.0 | 2.0 | 3.8 | 2.5 | 1.6 | 1.5 |
| KY85-10085 | 2.2 | 3.0 | 2.8 | 1.5 | 2.0 | 2.0 | 3.0 | 2.5 | 1.6 | 1.5 |
| KY85-10106 | 2.2 | 3.0 | 2.3 | 1.5 | 2.0 | 2.0 | 3.3 | 2.5 | 1.5 | 2.0 |
| LN84-978 | 1.7 | 2.0 | 2.3 | 1.5 | 2.0 | 2.0 | 1.0 | 1.5 | 1.4 | 1.5 |
| LN84-1304 | 1.9 | 2.0 | 2.5 | 1.5 | 2.0 | 2.0 | 1.8 | 2.0 | 1.6 | 2.0 |
| LN84-2068 | 1.7 | 1.0 | 3.3 | 1.0 | 1.0 | 2.0 | 2.0 | 2.0 | 1.5 | 1.5 |
| LN84-13380 | 2.1 | 3.0 | 2.8 | 1.0 | 3.0 | 2.0 | 1.3 | 2.5 | 1.4 | 1.5 |
| LN84-14484 | 2.0 | 3.0 | 2.8 | 1.5 | 2.0 | 2.0 | 1.8 | 2.0 | 1.4 | 1.5 |
| LN84-15424 | 1.3 | 1.0 | 2.5 | 1.0 | 1.0 | 1.0 | 1.0 | 1.5 | 1.1 | 1.5 |
| LN84-15496 | 1.9 | 2.0 | 2.8 | 1.0 | 2.0 | 2.0 | 1.8 | 2.0 | 1.6 | 1.5 |
| LN84-18924 | 1.9 | 2.0 | 3.5 | 1.0 | 2.0 | 1.0 | 2.0 | 2.0 | 1.4 | 2.0 |
| LN84-19128 | 1.7 | 1.0 | 3.0 | 1.5 | 2.0 | 2.0 | 1.5 | 2.0 | 1.2 | 1.5 |
| LN84-19202 | 2.3 | 3.0 | 3.5 | 2.0 | 2.0 | 2.0 | 2.0 | 3.0 | 2.1 | 1.5 |

## UNIFORM PRELIMINARY TEST IVA, 1988

### SEED SIZE (g/100)

| Strain | Mean 8 Tests | Carbon dale IL | Eldo rado IL | Vin- cennes IN | Man- hattan KS | Lexing ton KY | Queens town MD | Portage ville MO | Ripley OH | S.Charle ston OH |
|---|---|---|---|---|---|---|---|---|---|---|
| Flyer (E) | 13.0 | 10.8 | 10.8 | 12.6 | 14.0 | 13.6 | 15.3 | | 12.6 | 14.0 |
| Pennyrile | 16.0 | 13.7 | 12.9 | 15.7 | 15.5 | 19.3 | 17.8 | | 17.7 | 15.4 |
| Spencer (IV) | 15.4 | 12.5 | 12.4 | 14.7 | 17.2 | 16.1 | 18.4 | | 16.1 | 15.8 |
| C1737 | 14.7 | 12.1 | 12.3 | 13.1 | 15.8 | 16.7 | 17.6 | | 15.1 | 14.7 |
| C1738 | 15.2 | 12.9 | 13.1 | 14.6 | 14.3 | 17.5 | 17.6 | | 16.4 | 15.5 |
| C1739 | 15.3 | 12.8 | 11.9 | 14.2 | 16.2 | 15.5 | 19.4 | | 16.0 | 16.4 |
| C1740 | 15.3 | 13.0 | 12.8 | 13.8 | 15.0 | 17.5 | 18.7 | | 16.2 | 15.3 |
| C1741 | 15.6 | 13.0 | 12.6 | 14.0 | 16.6 | 17.8 | 18.3 | | 17.1 | 15.5 |
| C1742 | 14.2 | 12.3 | 11.5 | 12.5 | 14.7 | 15.4 | 16.7 | | 15.2 | 15.1 |
| C1743 | 15.6 | 13.3 | 12.0 | 14.7 | 16.2 | 17.1 | 20.1 | | 16.2 | 15.4 |
| C1745 | 15.2 | 12.4 | 12.0 | 14.1 | 16.2 | 16.8 | 18.3 | | 15.5 | 16.6 |
| K81-21-155 | 16.0 | 13.4 | 13.1 | 15.3 | 16.8 | 17.0 | 20.2 | | 16.6 | 15.9 |
| K82-1-48 | 12.7 | 10.6 | 10.7 | 11.6 | 13.3 | 14.1 | 15.0 | | 12.9 | 13.7 |
| K82-1-92 | 13.0 | 11.0 | 10.7 | 12.6 | 13.8 | 13.1 | 15.9 | | 13.1 | 13.9 |
| K82-1-138 | 13.4 | 11.2 | 10.5 | 12.4 | 13.9 | 14.6 | 15.7 | | 13.6 | 15.0 |
| K82-1-201 | 13.1 | 10.6 | 10.6 | 11.9 | 13.5 | 14.7 | 15.2 | | 13.6 | 14.3 |
| K82-1-210 | 13.2 | 11.0 | 10.9 | 11.8 | 13.2 | 14.3 | 16.0 | | 13.9 | 14.5 |
| KY85-01115 | 16.2 | 13.3 | 12.9 | 16.6 | 17.2 | 17.3 | 20.1 | | 17.3 | 14.5 |
| KY85-10085 | 19.6 | 16.0 | 16.9 | 19.9 | 19.4 | 21.6 | 23.5 | | 20.6 | 18.7 |
| KY85-10106 | 14.8 | 12.7 | 12.0 | 13.8 | 14.8 | 16.9 | 17.1 | | 16.6 | 14.6 |
| LN84-978 | 14.2 | 11.5 | 10.6 | 14.2 | 16.8 | 16.0 | 15.6 | | 14.6 | 14.6 |
| LN84-1304 | 13.6 | 11.3 | 10.6 | 12.8 | 15.4 | 14.6 | 16.7 | | 13.5 | 13.9 |
| LN84-2068 | 12.8 | 11.3 | 9.9 | 11.9 | 14.6 | 12.3 | 14.8 | | 13.4 | 13.9 |
| LN84-13380 | 13.4 | 11.7 | 10.1 | 12.6 | 15.3 | 15.2 | 15.7 | | 13.6 | 12.8 |
| LN84-14484 | 13.3 | 11.4 | 9.9 | 14.4 | 15.7 | 12.6 | 16.6 | | 12.9 | 12.9 |
| LN84-15424 | 11.5 | 10.1 | 9.6 | 11.3 | 12.3 | 12.2 | 12.5 | | 11.4 | 12.4 |
| LN84-15496 | 13.6 | 11.8 | 10.9 | 13.1 | 14.0 | 14.3 | 16.7 | | 13.9 | 13.7 |
| LN84-18924 | 12.9 | 11.1 | 9.8 | 13.2 | 15.7 | 12.5 | 15.9 | | 12.0 | 12.6 |
| LN84-19128 | 11.8 | 10.0 | 9.1 | 11.7 | 13.2 | 12.7 | 13.7 | | 11.1 | 12.5 |
| LN84-19202 | 13.1 | 11.3 | 11.1 | 13.5 | 14.8 | 13.4 | 15.8 | | 12.5 | 12.5 |

## UNIFORM PRELIMINARY TEST IVA, 1988

### PROTEIN (%)

| Strain | Mean 5 Tests | Eldorado IL | Manhattan KS | Lexington KY | Queenstown MD | Ripley OH |
|---|---|---|---|---|---|---|
| Flyer (E) | 41.7 | 42.8 | 41.5 | 42.4 | 41.0 | 40.6 |
| Pennyrile | 42.4 | 42.5 | 42.3 | 43.5 | 42.2 | 41.3 |
| Spencer (IV) | 39.8 | 39.7 | 40.3 | 40.1 | 39.6 | 39.1 |
| C1737 | 42.5 | 43.3 | 43.6 | 42.1 | 41.9 | 41.5 |
| C1738 | 41.9 | 42.8 | 42.6 | 41.4 | 40.5 | 42.1 |
| C1739 | 41.9 | 42.6 | 42.3 | 42.3 | 42.0 | 40.4 |
| C1740 | 41.0 | 41.7 | 40.6 | 42.2 | 41.1 | 39.5 |
| C1741 | 42.5 | 42.6 | 42.5 | 43.8 | 41.8 | 42.0 |
| C1742 | 41.4 | 41.9 | 42.3 | 41.7 | 40.7 | 40.3 |
| C1743 | 41.3 | 42.1 | 41.5 | 42.0 | 40.9 | 40.2 |
| C1745 | 41.5 | 42.2 | 40.9 | 43.0 | 40.9 | 40.7 |
| K81-21-155 | 39.9 | 40.0 | 40.5 | 40.6 | 39.8 | 38.6 |
| K82-1-48 | 40.9 | 41.7 | 40.8 | 42.0 | 40.6 | 39.3 |
| K82-1-92 | 40.8 | 42.4 | 40.6 | 40.5 | 41.1 | 39.5 |
| K82-1-138 | 40.8 | 40.3 | 41.0 | 43.1 | 40.2 | 39.6 |
| K82-1-201 | 40.6 | 41.9 | 39.9 | 41.5 | 40.3 | 39.5 |
| K82-1-210 | 40.5 | 41.6 | 41.3 | 41.7 | 39.4 | 38.7 |
| KY85-01115 | 39.5 | 38.2 | 40.6 | 40.5 | 38.9 | 39.4 |
| KY85-10085 | 41.5 | 41.0 | 41.3 | 42.0 | 42.1 | 40.9 |
| KY85-10106 | 40.9 | 41.0 | 40.5 | 41.0 | 40.8 | 41.0 |
| LN84-978 | 40.4 | 41.3 | 40.2 | 41.9 | 39.3 | 39.5 |
| LN84-1304 | 40.5 | 41.8 | 40.3 | 40.5 | 40.8 | 38.9 |
| LN84-2068 | 39.6 | 40.4 | 40.2 | 40.2 | 38.4 | 38.8 |
| LN84-13380 | 41.1 | 41.0 | 41.3 | 43.2 | 39.9 | 40.2 |
| LN84-14484 | 40.9 | 42.4 | 40.8 | 42.5 | 39.7 | 39.2 |
| LN84-15424 | 40.2 | 42.6 | 39.0 | 41.6 | 38.2 | 39.8 |
| LN84-15496 | 40.3 | 41.4 | 38.8 | 41.1 | 40.6 | 39.4 |
| LN84-18924 | 41.9 | 44.1 | 41.0 | 42.9 | 40.5 | 41.1 |
| LN84-19128 | 40.5 | 41.4 | 40.6 | 41.3 | 38.8 | 40.6 |
| LN84-19202 | 40.7 | 43.1 | 41.0 | 40.1 | 39.7 | 39.5 |

## UNIFORM PRELIMINARY TEST IVA, 1988

### OIL (%)

| Strain | Mean 5 Tests | Eldorado IL | Manhattan KS | Lexington KY | Queenstown MD | Ripley OH |
|---|---|---|---|---|---|---|
| Flyer (E) | 21.1 | 20.9 | 20.5 | 21.1 | 21.5 | 21.3 |
| Pennyrile | 20.3 | 20.6 | 19.9 | 19.7 | 20.5 | 20.8 |
| Spencer (IV) | 21.7 | 21.8 | 21.3 | 22.0 | 21.7 | 21.5 |
| C1737 | 20.4 | 20.1 | 19.2 | 21.4 | 20.1 | 21.1 |
| C1738 | 20.1 | 20.6 | 19.2 | 20.1 | 20.6 | 20.2 |
| C1739 | 20.9 | 21.2 | 20.1 | 21.2 | 20.8 | 21.1 |
| C1740 | 21.1 | 21.5 | 20.6 | 20.8 | 21.2 | 21.4 |
| C1741 | 19.8 | 20.1 | 19.5 | 19.7 | 20.0 | 19.9 |
| C1742 | 20.8 | 20.8 | 20.4 | 21.0 | 20.9 | 20.7 |
| C1743 | 20.6 | 20.3 | 19.5 | 21.0 | 21.0 | 21.4 |
| C1745 | 20.3 | 20.5 | 19.6 | 19.7 | 21.0 | 20.8 |
| K81-21-155 | 22.0 | 22.6 | 20.6 | 21.8 | 22.2 | 22.7 |
| K82-1-48 | 21.0 | 20.7 | 20.3 | 20.9 | 21.6 | 21.5 |
| K82-1-92 | 21.2 | 20.6 | 20.6 | 21.5 | 21.3 | 22.1 |
| K82-1-138 | 21.0 | 21.1 | 20.2 | 20.8 | 21.4 | 21.3 |
| K82-1-201 | 21.1 | 20.3 | 20.7 | 21.5 | 21.4 | 21.8 |
| K82-1-210 | 21.2 | 20.8 | 19.8 | 21.1 | 21.9 | 22.4 |
| KY85-01115 | 21.7 | 22.6 | 20.1 | 21.9 | 21.7 | 22.1 |
| KY85-10085 | 21.1 | 21.9 | 20.1 | 21.5 | 20.8 | 21.1 |
| KY85-10106 | 21.6 | 22.4 | 20.8 | 21.6 | 21.6 | 21.4 |
| LN84-978 | 20.1 | 20.3 | 19.3 | 20.1 | 20.3 | 20.6 |
| LN84-1304 | 21.3 | 20.6 | 20.4 | 21.7 | 21.1 | 22.5 |
| LN84-2068 | 21.4 | 21.1 | 20.5 | 21.2 | 22.4 | 21.7 |
| LN84-13380 | 21.2 | 22.0 | 19.9 | 20.6 | 21.5 | 21.8 |
| LN84-14484 | 21.2 | 21.2 | 20.3 | 20.8 | 22.0 | 21.9 |
| LN84-15424 | 21.1 | 21.2 | 20.9 | 20.6 | 21.4 | 21.4 |
| LN84-15496 | 20.9 | 20.7 | 20.6 | 21.1 | 20.7 | 21.3 |
| LN84-18924 | 21.0 | 19.9 | 21.3 | 20.1 | 21.7 | 22.1 |
| LN84-19128 | 21.6 | 21.4 | 20.6 | 21.8 | 22.8 | 21.3 |
| LN84-19202 | 21.9 | 22.3 | 20.6 | 22.0 | 22.2 | 22.3 |

## UNIFORM PRELIMINARY TEST IVB, 1988

| Strain | Parentage | Generation Composited | Unique Traits |
|---|---|---|---|
| Flyer (E) | Asgrow A3127 (4) x Williams 82 | BC3 F2 | |
| Pennyrile (L) | Williams x Essex | F5 | |
| Pyramid (SCN) | Franklin x J74-5 | F4 | |
| Spencer (IV) | A75-305022 x Century | F5 | |
| HC84-4779 (Dt) | Pella x Hobbit | F5 | |
| HC84-4845 (Dt) | Amcor x HC74-3400 | F5 | |
| HC84-4850 (Dt) | Sprite x Williams 82 | F5 | |
| HC84-4874 (Dt) | Hobbit x Williams 82 | F5 | |
| HC85-5176 (Dt) | Amcor x A72-512 | F5 | |
| HC85-5273 (Dt) | Asgrow A3127 x Forrest | F5 | |
| HM87108 | A79-138024 x Harper | F6 | |
| Md85-5376 | Douglas x N77-179 | F5 | |
| Md85-5443 | Essex x Harper | F5 | |
| LS82-1510 | Forrest x Crawford | F5 | SCN 3 Resis. |
| LS83-519 | Forrest x TS76-989 | F5 | SCN 3 Resis. |
| LS83-5616 | Forrest x Union | F6 | SCN 3 Resis. |
| LS84-920 | LS78-W245 x Fayette | F5 | SCN 3 Resis. |
| LS84-2643 | Pyramid x L77-994 | F5 | SCN 3 Resis. |
| LS84-4220 | Crawford x Pyramid | F5 | SCN 3,4 Resis. |
| S85-1101 | Fayette x Douglas | F5 | SCN 4 Resis. |
| S85-1104 | Fayette x Douglas | F5 | SCN 4 Resis. |
| Ripley (dt) | Hodgson x V68-1034 | F5 | |
| HC84-2063 (dt) | Pella x Sprite | F5 | |
| HC84-2125 (dt) | Pella x Sprite | F5 | |
| HC85-6450 (dt) | Hobbit x HC78-676 | F5 | |
| HC85-6498 (dt) | Pixie x HC78-676 | F5 | |
| HC85-6568 (dt) | HC78-350 x HC78-676 | F5 | |
| HC85-6577 (dt) | HC78-350 x HC78-676 | F5 | |
| HC85-6723 (dt) | HC78-634RE x HC78-676 | F5 | |

## UNIFORM PRELIMINARY TEST IVB, 1988

### DESCRIPTIVE DATA

| Strain | Descriptive Code | Shattering Score | | | Mottl. Score |
|---|---|---|---|---|---|
| | | Carbondale | Eldorado | Manhattan | Eldorado |
| Flyer (E) | PTTSYBl | 2.0 | 1.0 | 1 | 2.0 |
| Pennyrile (L) | WTBSYBl | 1.5 | 1.0 | 1 | 1.5 |
| Pyramid (SCN) | PGBSYIb | 1.5 | 1.0 | 1 | 3.0 |
| Spencer (IV) | WTBSYBr | 2.0 | 1.0 | 1 | 3.0 |
| HC84-4779 (Dt) | PTTSYBl | 1.8 | 1.0 | 1 | 1.5 |
| HC84-4845 (Dt) | P+WGGBSYY | 2.3 | 2.0 | 1 | 3.5 |
| HC84-4850 (Dt) | WTTSYBl | 2.3 | 1.0 | 2 | 1.5 |
| HC84-4874 (Dt) | WTTSYBl | 2.8 | 1.0 | 1 | 1.0 |
| HC85-5176 (Dt) | PGBSYBf | 2.3 | 1.0 | 2 | 1.0 |
| HC85-5273 (Dt) | PTTDYBl | 1.8 | 1.0 | 1 | 3.5 |
| HM87108 | PTBDYGr | 3.8 | 2.0 | 1 | 4.0 |
| Md85-5376 | WTTSYBl | 2.8 | 1.0 | 1 | 2.5 |
| Md85-5443 | PTTDYBl+Br | 3.0 | 2.0 | 1 | 1.0 |
| LS82-1510 | P+WTTSYBl | 1.5 | 1.0 | 1 | 3.0 |
| LS83-519 | WTTSYBl | 2.3 | 1.0 | 1 | 3.0 |
| LS83-5616 | WTTSYBl | 2.0 | 1.0 | 1 | 2.5 |
| LS84-920 | WTTSYBl | 1.3 | 1.0 | 1 | 2.5 |
| LS84-2643 | P+WGSYBf+Bl | 2.0 | 1.0 | 1 | 2.0 |
| LS84-4220 | PTTSYBl | 1.3 | 1.0 | 1 | 3.0 |
| S85-1101 | WTBSYBl | 2.3 | 1.0 | 1 | 2.0 |
| S85-1104 | WTTSYBl | 2.5 | 1.0 | 1 | 2.0 |
| Ripley (dt) | PGTSYBf | 1.8 | 1.0 | 1 | 2.0 |
| HC84-2063 (dt) | WTTSYBl | 1.0 | 1.0 | 1 | 3.0 |
| HC84-2125 (dt) | PTTSYBl | 1.3 | 1.0 | 1 | 3.0 |
| HC85-6450 (dt) | PTBSYBl | 1.3 | 1.0 | 1 | 2.0 |
| HC85-6498 (dt) | PTBSYBl | 2.0 | 1.0 | 1 | 2.5 |
| HC85-6568 (dt) | PTTSYBl | 1.0 | 1.0 | 1 | 2.0 |
| HC85-6577 (dt) | PTTSYBl | 1.8 | 1.0 | 1 | 2.5 |
| HC85-6723 (dt) | WTB+TSYBl | 2.0 | 1.0 | 1 | 2.0 |

# UNIFORM PRELIMINARY TEST IVB, 1988

## DISEASE DATA

| Strain | PR Castalia Phyto. Tolerance | PR Urbana Race 1 | PR Lafayette Race 7 | PS Lafayette art | PSB Lafayette n % | SMV Lafayette a Score |
|---|---|---|---|---|---|---|
| Flyer (E) | 4.0 | H | H | | | |
| Pennyrile (L) | 4.0 | S | S | | | |
| Pyramid (SCN) | 4.0 | S | S | | | |
| Spencer (IV) | 4.3 | S | S | | | |
| HC84-4779 (Dt) | 4.0 | S | H | | | |
| HC84-4845 (Dt) | 5.0 | R | H | | | |
| HC84-4850 (Dt) | 3.3 | R | R | | | |
| HC84-4874 (Dt) | 4.0 | S | S | | | |
| HC85-5176 (Dt) | 3.3 | R | S | | | |
| HC85-5273 (Dt) | 4.0 | S | S | | | |
| HM87108 | 4.3 | S | S | | | |
| Md85-5376 | 4.7 | R | S | | | |
| Md85-5443 | 4.7 | S | S | | | |
| LS82-1510 | 3.7 | S | S | | | |
| LS83-519 | 2.3 | S | S | | | |
| LS83-5616 | 3.3 | S | S | | | |
| LS84-920 | 3.5 | S | S | | | |
| LS84-2643 | 3.0 | S | S | | | |
| LS84-4220 | 5.7 | S | S | | | |
| S85-1101 | 5.0 | S | H | | | |
| S85-1104 | 6.0 | R | S | | | |
| Ripley (dt) | 5.0 | R | S | | | |
| HC84-2063 (dt) | 6.0 | S | S | | | |
| HC84-2125 (dt) | 5.7 | S | S | | | |
| HC85-6450 (dt) | 5.3 | S | S | | | |
| HC85-6498 (dt) | 6.0 | R | S | | | |
| HC85-6568 (dt) | 5.0 | S | S | | | |
| HC85-6577 (dt) | 6.5 | R | S | | | |
| HC85-6723 (dt) | 5.5 | R | S | | | |

## UNIFORM PRELIMINARY TEST IVB, 1988

### REGIONAL SUMMARY

| | Yield | Rank | Maturity | Lodging | Plant Height | Seed Quality | Seed Size | Composition Protein | Composition Oil |
|---|---|---|---|---|---|---|---|---|---|
| No. of Tests | 9 | 9 | 9 | 9 | 9 | 9 | 8 | 5 | 5 |
| Strain | bu/a | No. | Date | Score | In. | Score | g/100 | % | % |
| Flyer (E) | 44.9 | 3 | -3.2 | 1.4 | 38 | 2.0 | 13.0 | 41.6 | 20.9 |
| Pennyrile (L) | 42.5 | 13 | 7.3 | 1.6 | 44 | 2.1 | 16.6 | 42.0 | 20.3 |
| Pyramid (SCN) | 39.8 | 23 | 4.9 | 2.1 | 47 | 2.5 | 14.9 | 39.7 | 20.2 |
| Spencer (IV) | 44.0 | 5 | 9/25.9* | 1.3 | 40 | 2.5 | 16.0 | 40.3 | 21.4 |
| HC84-4779(Dt) | 41.3 | 17 | 7.0 | 1.7 | 48 | 2.2 | 17.8 | 40.7 | 21.4 |
| HC84-4845(Dt) | 36.9 | 28 | -2.8 | 2.6 | 43 | 3.1 | 14.9 | 39.0 | 22.1 |
| HC84-4850(Dt) | 44.6 | 4 | -3.2 | 2.3 | 43 | 1.9 | 15.4 | 40.5 | 21.7 |
| HC84-4874(Dt) | 43.0 | 9 | -4.1 | 2.1 | 41 | 2.1 | 14.7 | 39.4 | 22.6 |
| HC85-5176(Dt) | 35.4 | 29 | -5.3 | 2.8 | 48 | 2.8 | 15.1 | 39.8 | 21.0 |
| HC85-5273(Dt) | 43.1 | 7 | -5.7 | 2.2 | 41 | 2.1 | 13.2 | 40.0 | 22.1 |
| HM87108 | 40.5 | 21 | -3.7 | 1.5 | 40 | 2.9 | 16.8 | 41.0 | 20.2 |
| Md85-5376 | 43.1 | 7 | 1.9 | 1.6 | 43 | 2.2 | 16.0 | 41.4 | 20.8 |
| Md85-5443 | 41.1 | 18 | -2.3 | 1.6 | 38 | 2.1 | 15.1 | 42.0 | 20.7 |
| LS82-1510 | 39.9 | 22 | 7.9 | 2.1 | 46 | 1.7 | 13.3 | 41.6 | 20.3 |
| LS83-519 | 39.7 | 24 | 9.4 | 2.0 | 53 | 2.0 | 13.7 | 40.7 | 20.6 |
| LS83-5616 | 42.5 | 13 | -0.2 | 2.0 | 45 | 1.9 | 12.7 | 39.5 | 20.6 |
| LS84-920 | 41.8 | 15 | 12.1 | 2.2 | 38 | 2.3 | 16.0 | 40.9 | 20.0 |
| LS84-2643 | 40.6 | 20 | 9.2 | 1.9 | 46 | 2.2 | 17.2 | 41.4 | 20.4 |
| LS84-4220 | 39.1 | 26 | 8.3 | 2.2 | 50 | 2.1 | 17.7 | 42.6 | 20.2 |
| S85-1101 | 41.0 | 19 | 5.8 | 2.1 | 46 | 3.1 | 19.0 | 42.9 | 20.4 |
| S85-1104 | 38.6 | 27 | 2.0 | 1.8 | 42 | 2.8 | 16.0 | 41.5 | 20.7 |
| Ripley (dt) | 45.2 | 2 | -1.8 | 1.3 | 27 | 1.4 | 12.6 | 38.7 | 21.6 |
| HC84-2063(dt) | 43.0 | 9 | 3.9 | 1.2 | 23 | 1.6 | 17.1 | 40.1 | 22.1 |
| HC84-2125(dt) | 42.8 | 12 | 6.6 | 1.2 | 20 | 1.7 | 15.5 | 40.5 | 21.4 |
| HC85-6450(dt) | 41.6 | 16 | -1.8 | 1.0 | 21 | 1.9 | 15.9 | 40.8 | 21.9 |
| HC85-6498(dt) | 39.7 | 24 | -6.9 | 1.1 | 21 | 2.2 | 14.2 | 41.0 | 21.2 |
| HC85-6568(dt) | 42.9 | 11 | 2.2 | 1.1 | 22 | 2.6 | 15.5 | 41.7 | 21.2 |
| HC85-6577(dt) | 43.2 | 6 | -3.8 | 1.2 | 21 | 2.4 | 16.3 | 41.0 | 21.8 |
| HC85-6723(dt) | 46.0 | 1 | -2.8 | 1.3 | 24 | 2.1 | 16.4 | 41.7 | 21.6 |

* 133.0 Days after planting

# UNIFORM PRELIMINARY TEST IVB, 1988

## YIELD (bu/a)

| Strain | Mean 9 Tests | Carbon dale IL | Eldo rado IL | Vin- cennes IN | Man- hattan KS | Lexing ton KY | Queens town MD | Portage ville MO | Ripley OH | S.Charle ston OH |
|---|---|---|---|---|---|---|---|---|---|---|
| Flyer (E) | 44.9 | 40.4 | 38.4 | 45.9 | 66.7 | 33.3 | 46.2 | 37.8 | 32.5 | 62.9 |
| Pennyrile (L) | 42.5 | 38.1 | 32.8 | 52.1 | 44.6 | 37.5 | 47.7 | 42.1 | 34.8 | 52.7 |
| Pyramid (SCN) | 39.8 | 33.6 | 35.5 | 52.2 | 47.7 | 37.6 | 42.5 | 34.9 | 30.6 | 43.6 |
| Spencer (IV) | 44.0 | 36.4 | 39.5 | 44.0 | 49.4 | 35.0 | 55.1 | 35.8 | 38.4 | 62.5 |
| HC84-4779 (Dt) | 41.3 | 36.2 | 29.9 | 44.1 | 47.1 | 39.6 | 46.6 | 35.4 | 39.2 | 53.2 |
| HC84-4845 (Dt) | 36.9 | 27.6 | 31.7 | 32.1 | 43.2 | 29.8 | 44.9 | 32.9 | 28.3 | 61.6 |
| HC84-4850 (Dt) | 44.6 | 35.3 | 42.6 | 48.2 | 58.3 | 39.1 | 43.8 | 35.8 | 36.1 | 62.3 |
| HC84-4874 (Dt) | 43.0 | 34.4 | 38.3 | 39.4 | 55.7 | 39.7 | 49.2 | 37.0 | 30.8 | 62.1 |
| HC85-5176 (Dt) | 35.4 | 32.7 | 30.8 | 30.1 | 40.6 | 28.4 | 45.9 | 29.7 | 26.8 | 53.4 |
| HC85-5273 (Dt) | 43.1 | 33.5 | 44.5 | 51.1 | 50.6 | 31.7 | 46.0 | 39.3 | 32.9 | 58.6 |
| HM87108 | 40.5 | 35.0 | 40.7 | 40.4 | 51.9 | 32.8 | 45.2 | 34.4 | 29.3 | 54.6 |
| Md85-5376 | 43.1 | 40.8 | 37.9 | 37.6 | 52.8 | 39.2 | 46.3 | 39.5 | 36.5 | 57.2 |
| Md85-5443 | 41.1 | 37.4 | 37.5 | 13.6 | 61.5 | 35.7 | 51.2 | 38.3 | 32.3 | 62.0 |
| LS82-1510 | 39.9 | 41.9 | 36.6 | 40.9 | 40.0 | 36.0 | 42.2 | 44.1 | 32.4 | 45.0 |
| LS83-519 | 39.7 | 38.6 | 31.7 | 48.9 | 41.1 | 32.6 | 40.9 | 44.9 | 33.5 | 45.3 |
| LS83-5616 | 42.5 | 42.0 | 37.4 | 47.0 | 47.7 | 36.5 | 46.5 | 44.5 | 32.9 | 47.8 |
| LS84-920 | 41.8 | 37.7 | 37.4 | 51.3 | 46.1 | 40.2 | 43.2 | 48.4 | 35.8 | 36.3 |
| LS84-2643 | 40.6 | 38.9 | 39.0 | 47.9 | 39.6 | 35.7 | 47.6 | 43.1 | 28.1 | 45.9 |
| LS84-4220 | 39.1 | 33.6 | 36.2 | 51.6 | 36.7 | 33.2 | 43.4 | 43.6 | 36.2 | 37.4 |
| S85-1101 | 41.0 | 40.5 | 34.1 | 46.5 | 41.9 | 38.4 | 41.3 | 44.5 | 32.7 | 48.8 |
| S85-1104 | 38.6 | 39.3 | 38.5 | 25.7 | 49.2 | 30.5 | 48.3 | 43.4 | 28.2 | 44.2 |
| Ripley (dt) | 45.2 | 40.2 | 40.1 | 58.9 | 56.8 | 39.8 | 47.7 | 33.2 | 28.9 | 61.1 |
| HC84-2063 (dt) | 43.0 | 48.3 | 37.2 | 29.7 | 63.0 | 35.6 | 46.4 | 44.6 | 29.2 | 52.7 |
| HC84-2125 (dt) | 42.8 | 49.8 | 32.2 | 19.8 | 65.4 | 35.3 | 46.7 | 39.2 | 39.0 | 58.0 |
| HC85-6450 (dt) | 41.6 | 38.9 | 34.2 | 42.1 | 55.7 | 36.5 | 43.4 | 37.9 | 30.1 | 56.0 |
| HC85-6498 (dt) | 39.7 | 33.6 | 40.5 | 35.7 | 55.6 | 31.4 | 41.2 | 27.4 | 28.2 | 63.7 |
| HC85-6568 (dt) | 42.9 | 36.5 | 41.6 | 45.2 | 56.3 | 34.7 | 41.2 | 37.7 | 30.4 | 62.1 |
| HC85-6577 (dt) | 43.2 | 33.7 | 41.9 | 48.1 | 55.1 | 33.8 | 48.7 | 35.1 | 33.0 | 59.3 |
| HC85-6723 (dt) | 46.0 | 38.8 | 43.7 | 48.7 | 60.5 | 37.9 | 52.2 | 33.0 | 30.9 | 68.4 |
| C.V. (%) | | 13.0 | 8.6 | 27.2 | 5.5 | 10.8 | 6.4 | 10.6 | 11.0 | 7.9 |
| L.S.D. (5%) | | 10.1 | 6.6 | 23.4 | 5.7 | 5.0 | 6.1 | 8.4 | 7.4 | 8.8 |
| Row Sp. (In.) | | 30 | 30 | 15 | 30 | 30 | 30 | 30 | 30 | 7 |
| Rows/Plot | | 4 | 4 | 5 | 4 | 4 | 4 | 4 | 4 | 8 |
| Reps | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |

## UNIFORM PRELIMINARY TEST IVB, 1988

### YIELD RANK

| Strain | Yield Rank | Carbon dale IL | Eldo rado IL | Vin- cennes IN | Man- hattan KS | Lexing ton KY | Queens town MD | Portage ville MO | Ripley OH | S.Charle ston OH |
|---|---|---|---|---|---|---|---|---|---|---|
| Flyer (E) | 3 | 7 | 13 | 14 | 1 | 21 | 15 | 16 | 14 | 3 |
| Pennyrile (L) | 13 | 14 | 24 | 3 | 22 | 10 | 7 | 10 | 8 | 19 |
| Pyramid (SCN) | 23 | 24 | 21 | 2 | 18 | 9 | 24 | 23 | 19 | 27 |
| Spencer (IV) | 5 | 18 | 9 | 17 | 16 | 18 | 1 | 19 | 3 | 4 |
| HC84-4779 (Dt) | 17 | 19 | 29 | 16 | 20 | 4 | 11 | 21 | 1 | 18 |
| HC84-4845 (Dt) | 28 | 29 | 26 | 24 | 23 | 28 | 19 | 27 | 25 | 9 |
| HC84-4850 (Dt) | 4 | 20 | 3 | 9 | 6 | 6 | 20 | 19 | 6 | 5 |
| HC84-4874 (Dt) | 9 | 22 | 12 | 21 | 9 | 3 | 4 | 18 | 18 | 6 |
| HC85-5176 (Dt) | 29 | 28 | 28 | 25 | 26 | 29 | 17 | 28 | 29 | 17 |
| HC85-5273 (Dt) | 7 | 27 | 1 | 6 | 15 | 25 | 16 | 12 | 11 | 12 |
| HM87108 | 21 | 21 | 6 | 20 | 14 | 23 | 18 | 24 | 22 | 16 |
| Md85-5376 | 7 | 5 | 14 | 22 | 13 | 5 | 14 | 11 | 4 | 14 |
| Md85-5443 | 18 | 16 | 15 | 29 | 4 | 14 | 3 | 14 | 16 | 8 |
| LS82-1510 | 22 | 4 | 19 | 19 | 27 | 13 | 25 | 6 | 15 | 25 |
| LS83-519 | 24 | 13 | 26 | 7 | 25 | 24 | 29 | 2 | 9 | 24 |
| LS83-5616 | 13 | 3 | 16 | 12 | 18 | 11 | 12 | 4 | 11 | 22 |
| LS84-920 | 15 | 15 | 16 | 5 | 21 | 1 | 23 | 1 | 7 | 29 |
| LS84-2643 | 20 | 10 | 10 | 11 | 28 | 14 | 9 | 9 | 28 | 23 |
| LS84-4220 | 26 | 24 | 20 | 4 | 29 | 22 | 21 | 7 | 5 | 28 |
| S85-1101 | 19 | 6 | 23 | 13 | 24 | 7 | 26 | 4 | 13 | 21 |
| S85-1104 | 27 | 9 | 11 | 27 | 17 | 27 | 6 | 8 | 26 | 26 |
| Ripley (dt) | 2 | 8 | 8 | 1 | 7 | 2 | 7 | 25 | 24 | 10 |
| HC84-2063 (dt) | 9 | 2 | 18 | 26 | 3 | 16 | 13 | 3 | 23 | 19 |
| HC84-2125 (dt) | 12 | 1 | 25 | 28 | 2 | 17 | 10 | 13 | 2 | 13 |
| HC85-6450 (dt) | 16 | 10 | 22 | 18 | 9 | 11 | 21 | 15 | 21 | 15 |
| HC85-6498 (dt) | 24 | 24 | 7 | 23 | 11 | 26 | 27 | 29 | 26 | 2 |
| HC85-6568 (dt) | 11 | 17 | 5 | 15 | 8 | 19 | 27 | 17 | 20 | 6 |
| HC85-6577 (dt) | 6 | 23 | 4 | 10 | 12 | 20 | 5 | 22 | 10 | 11 |
| HC85-6723 (dt) | 1 | 12 | 2 | 8 | 5 | 8 | 2 | 26 | 17 | 1 |

## UNIFORM PRELIMINARY TEST IVB, 1988

### MATURITY (date)

| Strain | Mean 9 Tests | Carbon dale IL | Eldo rado IL | Vin- cennes IN | Man- hattan KS | Lexing ton KY | Queens town MD | Portage ville MO | Ripley OH | S.Charle ston OH |
|---|---|---|---|---|---|---|---|---|---|---|
| Flyer (E) | -3.2 | -5 | 0 | -4 | -1 | -4 | -7 | -3 | -3 | -2 |
| Pennyrile (L) | 7.3 | 8 | 10 | 9 | 11 | 6 | 1 | 5 | 7 | 9 |
| Pyramid (SCN) | 4.9 | 4 | 6 | 8 | 13 | 6 | -3 | 0 | 5 | 5 |
| Spencer (IV) | 9/25.9 | 09/24 | 09/15 | 09/21 | 09/28 | 09/28 | 10/06 | 09/28 | 09/22 | 10/01 |
| HC84-4779 (Dt) | 7.0 | 8 | 9 | 6 | 7 | 8 | 2 | 9 | 8 | 6 |
| HC84-4845 (Dt) | -2.8 | -8 | 13 | -2 | 1 | -7 | -7 | -3 | -9 | -3 |
| HC84-4850 (Dt) | -3.2 | -6 | 1 | -6 | 0 | -4 | -4 | -2 | -7 | -1 |
| HC84-4874 (Dt) | -4.1 | -7 | -2 | -5 | 1 | -6 | -4 | -4 | -8 | -2 |
| HC85-5176 (Dt) | -5.3 | -9 | -4 | -3 | 1 | -9 | -9 | -4 | -9 | -2 |
| HC85-5273 (Dt) | -5.7 | -8 | -2 | -5 | -1 | -9 | -10 | -5 | -7 | -4 |
| HM87108 | -3.7 | -7 | -1 | -4 | -1 | -5 | -7 | -1 | -3 | -4 |
| Md85-5376 | 1.9 | -1 | 3 | 0 | 1 | 1 | 2 | 9 | 1 | 1 |
| Md85-5443 | -2.3 | -4 | 0 | -7 | 0 | -4 | -8 | 8 | -4 | -2 |
| LS82-1510 | 7.9 | 6 | 13 | 8 | 9 | 6 | 1 | 8 | 9 | 11 |
| LS83-519 | 9.4 | 6 | 12 | 10 | 12 | 8 | 1 | 10 | 13 | 13 |
| LS83-5616 | -0.2 | 2 | 4 | 0 | -1 | -2 | -3 | -1 | -1 | 0 |
| LS84-920 | 12.1 | 20 | 15 | 12 | 13 | 8 | 5 | 9 | 14 | 13 |
| LS84-2643 | 9.2 | 8 | 12 | 9 | 10 | 8 | 5 | 9 | 11 | 11 |
| LS84-4220 | 8.3 | 9 | 12 | 9 | 6 | 8 | 2 | 10 | 11 | 8 |
| S85-1101 | 5.8 | 5 | 4 | 8 | 6 | 6 | 1 | 10 | 5 | 7 |
| S85-1104 | 2.0 | 0 | 4 | 1 | 1 | 3 | -1 | 2 | 2 | 6 |
| Ripley (dt) | -1.8 | -4 | 1 | -1 | -3 | -2 | -6 | -7 | 2 | 4 |
| HC84-2063 (dt) | 3.9 | 7 | 7 | 4 | 5 | 5 | -2 | 4 | 5 | 0 |
| HC84-2125 (dt) | 6.6 | 8 | 8 | 7 | 10 | 5 | -1 | 10 | 7 | 5 |
| HC85-6450 (dt) | -1.8 | -4 | 2 | -2 | 2 | -2 | -6 | -2 | -3 | -1 |
| HC85-6498 (dt) | -6.9 | -8 | -4 | -9 | -4 | -4 | -12 | -6 | -9 | -6 |
| HC85-6568 (dt) | 2.2 | -3 | 6 | 1 | 9 | 3 | -4 | 1 | 5 | 2 |
| HC85-6577 (dt) | -3.8 | -7 | 2 | -2 | 0 | -6 | -9 | -2 | -8 | -2 |
| HC85-6723 (dt) | -2.8 | -7 | 1 | 2 | 0 | -7 | -5 | -2 | -6 | -1 |
| Date Planted | 5/15.9 | 05/14 | 05/10 | 05/05 | 05/27 | 05/18 | 06/01 | 05/31 | 05/03 | 05/03 |
| Days to Mature | 133 | 133 | 128 | 139 | 124 | 133 | 127 | 120 | 142 | 151 |

## UNIFORM PRELIMINARY TEST IVB, 1988

### LODGING (score)

| Strain | Mean 9 Tests | Carbon dale IL | Eldo rado IL | Vin- cennes IN | Man- hattan KS | Lexing ton KY | Queens town MD | Portage ville MO | Ripley OH | S.Charle ston OH |
|---|---|---|---|---|---|---|---|---|---|---|
| Flyer (E) | 1.4 | 1.0 | 1.2 | 1.3 | 1.0 | 1.3 | 2.0 | 2.0 | 1.4 | 1.5 |
| Pennyrile (L) | 1.6 | 1.0 | 1.2 | 1.5 | 2.0 | 1.5 | 2.5 | 2.0 | 1.4 | 1.5 |
| Pyramid (SCN) | 2.1 | 1.0 | 1.7 | 2.3 | 2.5 | 2.0 | 2.5 | 2.0 | 2.8 | 2.0 |
| Spencer (IV) | 1.3 | 1.0 | 1.2 | 1.5 | 1.0 | 1.3 | 2.0 | 1.5 | 1.2 | 1.3 |
| HC84-4779 (Dt) | 1.7 | 1.0 | 1.3 | 1.8 | 2.0 | 1.5 | 2.5 | 2.0 | 1.5 | 1.8 |
| HC84-4845 (Dt) | 2.6 | 1.0 | 2.6 | 2.5 | 3.0 | 2.5 | 3.3 | 3.0 | 2.3 | 3.3 |
| HC84-4850 (Dt) | 2.3 | 1.0 | 2.0 | 2.8 | 2.0 | 2.8 | 3.5 | 2.5 | 1.8 | 2.5 |
| HC84-4874 (Dt) | 2.1 | 1.0 | 1.8 | 2.5 | 2.0 | 2.2 | 3.0 | 2.0 | 2.3 | 2.0 |
| HC85-5176 (Dt) | 2.8 | 1.0 | 2.3 | 3.3 | 3.0 | 2.3 | 3.3 | 3.0 | 4.0 | 3.0 |
| HC85-5273 (Dt) | 2.2 | 1.0 | 2.1 | 2.5 | 2.5 | 1.5 | 2.8 | 2.5 | 2.0 | 2.5 |
| HM87108 | 1.5 | 1.0 | 1.4 | 1.3 | 1.0 | 1.8 | 2.3 | 2.0 | 1.2 | 1.8 |
| Md85-5376 | 1.6 | 1.0 | 1.3 | 1.3 | 1.5 | 1.5 | 2.3 | 2.5 | 1.4 | 1.5 |
| Md85-5443 | 1.6 | 1.0 | 1.3 | 1.0 | 1.5 | 1.8 | 2.3 | 2.5 | 1.8 | 1.5 |
| LS82-1510 | 2.1 | 1.0 | 2.3 | 2.0 | 2.0 | 1.8 | 2.8 | 2.5 | 1.8 | 2.3 |
| LS83-519 | 2.0 | 1.0 | 1.5 | 2.0 | 2.0 | 2.0 | 3.0 | 2.5 | 1.6 | 2.3 |
| LS83-5616 | 2.0 | 1.0 | 1.9 | 1.8 | 2.0 | 2.2 | 2.5 | 2.0 | 1.7 | 2.5 |
| LS84-920 | 2.2 | 1.0 | 2.3 | 2.8 | 1.5 | 2.5 | 3.3 | 2.0 | 1.8 | 3.0 |
| LS84-2643 | 1.9 | 1.0 | 1.6 | 2.5 | 1.5 | 1.8 | 2.8 | 2.0 | 1.6 | 2.0 |
| LS84-4220 | 2.2 | 1.0 | 1.6 | 3.3 | 2.0 | 2.3 | 3.0 | 2.5 | 1.9 | 2.5 |
| S85-1101 | 2.1 | 1.0 | 1.5 | 2.3 | 2.5 | 2.2 | 2.8 | 2.0 | 2.8 | 2.0 |
| S85-1104 | 1.8 | 1.0 | 1.4 | 1.5 | 1.5 | 1.5 | 2.3 | 2.5 | 2.3 | 1.8 |
| Ripley (dt) | 1.3 | 1.0 | 1.5 | 1.0 | 1.0 | 1.2 | 1.5 | 1.0 | 1.5 | 2.0 |
| HC84-2063 (dt) | 1.2 | 1.0 | 1.1 | 1.0 | 1.0 | 1.5 | 1.5 | 1.0 | 1.3 | 1.0 |
| HC84-2125 (dt) | 1.2 | 1.0 | 1.2 | 1.0 | 1.0 | 1.5 | 1.0 | 1.5 | 1.2 | 1.0 |
| HC85-6450 (dt) | 1.0 | 1.0 | 1.1 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| HC85-6498 (dt) | 1.1 | 1.0 | 1.2 | 1.0 | 1.0 | 1.5 | 1.0 | 1.0 | 1.1 | 1.5 |
| HC85-6568 (dt) | 1.1 | 1.0 | 1.2 | 1.0 | 1.0 | 1.5 | 1.0 | 1.0 | 1.2 | 1.0 |
| HC85-6577 (dt) | 1.2 | 1.0 | 1.1 | 1.0 | 1.0 | 1.3 | 1.5 | 1.5 | 1.2 | 1.0 |
| HC85-6723 (dt) | 1.3 | 1.0 | 1.2 | 1.0 | 1.0 | 2.0 | 2.0 | 1.0 | 1.3 | 1.3 |

## UNIFORM PRELIMINARY TEST IVB, 1988

### PLANT HEIGHT (inches)

| Strain | Mean 9 Tests | Carbon dale IL | Eldo rado IL | Vin- cennes IN | Man- hattan KS | Lexing ton KY | Queens town MD | Portage ville MO | Ripley OH | S.Charle ston OH |
|---|---|---|---|---|---|---|---|---|---|---|
| Flyer (E) | 38 | 35 | 42 | 39 | 45 | 29 | 33 | 40 | 37 | 42 |
| Pennyrile (L) | 44 | 43 | 51 | 50 | 49 | 35 | 36 | 46 | 42 | 46 |
| Pyramid (SCN) | 46 | 43 | 54 | 53 | 52 | 40 | 42 | 49 | 39 | 49 |
| Spencer (IV) | 40 | 35 | 44 | 45 | 47 | 33 | 34 | 43 | 36 | 47 |
| HC84-4779 (Dt) | 47 | 42 | 55 | 48 | 57 | 38 | 40 | 52 | 47 | 52 |
| HC84-4845 (Dt) | 43 | 37 | 48 | 53 | 45 | 35 | 37 | 49 | 39 | 47 |
| HC84-4850 (Dt) | 42 | 36 | 47 | 46 | 45 | 40 | 36 | 44 | 44 | 47 |
| HC84-4874 (Dt) | 41 | 36 | 48 | 43 | 44 | 37 | 37 | 44 | 39 | 43 |
| HC85-5176 (Dt) | 48 | 43 | 51 | 53 | 54 | 40 | 42 | 53 | 42 | 55 |
| HC85-5273 (Dt) | 41 | 39 | 49 | 42 | 42 | 34 | 38 | 41 | 38 | 46 |
| HM87108 | 39 | 37 | 45 | 44 | 46 | 33 | 34 | 43 | 34 | 41 |
| Md85-5376 | 43 | 38 | 45 | 45 | 51 | 34 | 38 | 48 | 42 | 46 |
| Md85-5443 | 38 | 36 | 43 | 33 | 44 | 29 | 35 | 50 | 35 | 41 |
| LS82-1510 | 45 | 43 | 52 | 47 | 52 | 35 | 41 | 50 | 43 | 48 |
| LS83-519 | 52 | 49 | 60 | 65 | 55 | 40 | 49 | 55 | 48 | 52 |
| LS83-5616 | 45 | 43 | 53 | 45 | 50 | 38 | 40 | 48 | 44 | 48 |
| LS84-920 | 37 | 31 | 45 | 42 | 34 | 30 | 40 | 35 | 38 | 44 |
| LS84-2643 | 46 | 42 | 57 | 54 | 49 | 37 | 40 | 48 | 43 | 44 |
| LS84-4220 | 49 | 47 | 59 | 62 | 55 | 37 | 47 | 51 | 44 | 46 |
| S85-1101 | 45 | 42 | 52 | 52 | 47 | 39 | 39 | 49 | 42 | 49 |
| S85-1104 | 41 | 42 | 48 | 40 | 49 | 33 | 34 | 47 | 38 | 46 |
| Ripley (dt) | 27 | 22 | 33 | 28 | 25 | 27 | 26 | 23 | 28 | 35 |
| HC84-2063 (dt) | 22 | 22 | 24 | 16 | 27 | 24 | 22 | 26 | 22 | 22 |
| HC84-2125 (dt) | 20 | 22 | 22 | 10 | 25 | 24 | 17 | 22 | 19 | 23 |
| HC85-6450 (dt) | 20 | 20 | 22 | 14 | 21 | 23 | 19 | 20 | 21 | 27 |
| HC85-6498 (dt) | 20 | 20 | 25 | 16 | 21 | 20 | 15 | 21 | 21 | 27 |
| HC85-6568 (dt) | 22 | 21 | 28 | 18 | 22 | 23 | 18 | 21 | 20 | 27 |
| HC85-6577 (dt) | 20 | 20 | 25 | 16 | 23 | 21 | 17 | 22 | 18 | 26 |
| HC85-6723 (dt) | 23 | 21 | 26 | 22 | 26 | 25 | 22 | 20 | 22 | 28 |

## UNIFORM PRELIMINARY TEST IVB, 1988

### SEED QUALITY (score)

| Strain | Mean 9 Tests | Carbon dale IL | Eldo rado IL | Vin- cennes IN | Man- hattan KS | Lexing ton KY | Queens town MD | Portage ville MO | Ripley OH | S.Charle ston OH |
|---|---|---|---|---|---|---|---|---|---|---|
| Flyer (E) | 2.0 | 2.0 | 2.8 | 1.5 | 3.0 | 2.0 | 1.5 | 2.0 | 1.3 | 2.0 |
| Pennyrile (L) | 2.1 | 2.0 | 2.3 | 2.0 | 2.0 | 2.0 | 3.0 | 3.0 | 1.5 | 1.5 |
| Pyramid (SCN) | 2.5 | 3.0 | 3.0 | 1.5 | 3.0 | 3.0 | 2.0 | 3.0 | 2.1 | 2.0 |
| Spencer (IV) | 2.5 | 2.0 | 3.0 | 2.0 | 3.0 | 3.0 | 2.0 | 3.5 | 2.0 | 2.0 |
| HC84-4779 (Dt) | 2.2 | 3.0 | 3.0 | 1.5 | 3.0 | 2.0 | 1.8 | 2.5 | 1.7 | 1.5 |
| HC84-4845 (Dt) | 3.1 | 3.0 | 4.0 | 2.0 | 3.0 | 3.0 | 4.0 | 3.0 | 2.8 | 3.0 |
| HC84-4850 (Dt) | 1.9 | 2.5 | 2.8 | 1.5 | 2.0 | 2.0 | 1.8 | 2.0 | 1.4 | 1.5 |
| HC84-4874 (Dt) | 2.1 | 2.0 | 2.8 | 1.5 | 3.0 | 3.0 | 2.3 | 2.0 | 1.2 | 1.0 |
| HC85-5176 (Dt) | 2.8 | 3.0 | 3.8 | 2.0 | 3.0 | 2.0 | 4.0 | 3.5 | 2.0 | 2.0 |
| HC85-5273 (Dt) | 2.1 | 2.5 | 3.0 | 1.5 | 2.0 | 2.0 | 1.5 | 2.5 | 2.0 | 1.5 |
| HM87108 | 2.9 | 3.0 | 3.3 | 2.0 | 3.0 | 3.0 | 3.8 | 3.5 | 2.0 | 2.5 |
| Md85-5376 | 2.2 | 2.5 | 3.0 | 1.5 | 2.0 | 2.0 | 3.0 | 3.5 | 1.5 | 1.0 |
| Md85-5443 | 2.1 | 2.5 | 2.8 | 1.5 | 3.0 | 2.0 | 1.8 | 2.0 | 1.5 | 2.0 |
| LS82-1510 | 1.7 | 2.0 | 2.5 | 1.0 | 2.0 | 2.0 | 1.0 | 2.0 | 1.5 | 1.5 |
| LS83-519 | 2.0 | 2.0 | 2.0 | 1.5 | 3.0 | 2.0 | 1.5 | 2.5 | 1.8 | 1.5 |
| LS83-5616 | 1.9 | 2.5 | 2.5 | 1.0 | 2.0 | 2.0 | 1.8 | 2.0 | 1.4 | 1.5 |
| LS84-920 | 2.3 | 2.0 | 2.3 | 1.5 | 3.0 | 2.0 | 2.8 | 2.5 | 2.3 | 2.5 |
| LS84-2643 | 2.2 | 3.0 | 3.0 | 1.5 | 3.0 | 2.0 | 1.5 | 2.5 | 1.8 | 1.5 |
| LS84-4220 | 2.1 | 3.0 | 3.0 | 1.5 | 1.0 | 3.0 | 1.0 | 2.5 | 2.4 | 1.5 |
| S85-1101 | 3.1 | 3.0 | 3.3 | 2.0 | 4.0 | 3.0 | 4.0 | 3.5 | 2.7 | 2.5 |
| S85-1104 | 2.8 | 2.5 | 3.3 | 1.5 | 3.0 | 3.0 | 3.8 | 3.5 | 2.1 | 2.5 |
| Ripley (dt) | 1.4 | 2.0 | 2.0 | 1.0 | 1.0 | 1.0 | 1.5 | 2.0 | 1.1 | 1.0 |
| HC84-2063 (dt) | 1.6 | 2.0 | 2.3 | 1.5 | 1.0 | 2.0 | 1.5 | 2.0 | 1.5 | 1.0 |
| HC84-2125 (dt) | 1.7 | 2.0 | 2.0 | 1.5 | 2.0 | 2.0 | 1.3 | 2.0 | 1.5 | 1.0 |
| HC85-6450 (dt) | 1.9 | 2.0 | 3.0 | 1.5 | 2.0 | 2.0 | 2.0 | 2.0 | 1.4 | 1.5 |
| HC85-6498 (dt) | 2.2 | 3.0 | 3.5 | 1.5 | 1.0 | 3.0 | 2.3 | 2.5 | 1.9 | 1.0 |
| HC85-6568 (dt) | 2.6 | 2.0 | 3.0 | 1.5 | 2.0 | 3.0 | 4.0 | 3.0 | 3.3 | 1.5 |
| HC85-6577 (dt) | 2.4 | 2.5 | 3.0 | 1.5 | 2.0 | 3.0 | 4.0 | 2.5 | 2.5 | 1.0 |
| HC85-6723 (dt) | 2.1 | 2.5 | 3.0 | 1.5 | 2.0 | 2.0 | 2.5 | 2.5 | 1.9 | 1.0 |

## UNIFORM PRELIMINARY TEST IVB, 1988

### SEED SIZE (g/100)

| Strain | Mean 8 Tests | Carbon dale IL | Eldo rado IL | Vin- cennes IN | Man- hattan KS | Lexing ton KY | Queens town MD | Portage ville MO | Ripley OH | S.Charle ston OH |
|---|---|---|---|---|---|---|---|---|---|---|
| Flyer (E) | 13.0 | 11.3 | 10.4 | 12.9 | 15.3 | 13.9 | 14.7 | | 12.5 | 13.1 |
| Pennyrile (L) | 16.6 | 14.2 | 13.2 | 17.3 | 16.2 | 19.4 | 18.7 | | 18.2 | 15.2 |
| Pyramid (SCN) | 14.9 | 13.3 | 11.9 | 14.6 | 14.8 | 18.4 | 16.6 | | 16.8 | 13.0 |
| Spencer (IV) | 16.0 | 14.9 | 12.6 | 15.6 | 15.2 | 18.6 | 18.9 | | 15.7 | 16.5 |
| HC84-4779 (Dt) | 17.8 | 17.1 | 13.8 | 17.0 | 17.7 | 21.3 | 19.3 | | 20.1 | 16.2 |
| HC84-4845 (Dt) | 14.9 | 13.4 | 11.8 | 16.7 | 16.4 | 14.7 | 17.4 | | 14.2 | 14.3 |
| HC84-4850 (Dt) | 15.4 | 13.0 | 13.4 | 15.7 | 17.7 | 16.0 | 17.2 | | 15.0 | 14.8 |
| HC84-4874 (Dt) | 14.7 | 11.9 | 11.5 | 15.3 | 16.8 | 15.0 | 18.0 | | 14.2 | 14.7 |
| HC85-5176 (Dt) | 15.1 | 13.1 | 12.5 | 16.1 | 15.5 | 14.9 | 17.6 | | 15.3 | 15.9 |
| HC85-5273 (Dt) | 13.2 | 11.2 | 11.1 | 13.9 | 14.7 | 13.2 | 14.8 | | 13.6 | 12.7 |
| HM87108 | 16.8 | 13.1 | 13.8 | 15.7 | 20.5 | 18.8 | 20.2 | | 16.2 | 16.4 |
| Md85-5376 | 16.0 | 13.2 | 12.6 | 14.7 | 17.1 | 19.5 | 19.4 | | 15.8 | 15.4 |
| Md85-5443 | 15.1 | 13.4 | 12.3 | 14.1 | 16.7 | 16.9 | 17.6 | | 15.6 | 14.5 |
| LS82-1510 | 13.3 | 11.5 | 11.0 | 11.2 | 13.4 | 16.5 | 14.5 | | 15.7 | 12.8 |
| LS83-519 | 13.7 | 11.3 | 10.5 | 13.0 | 13.1 | 16.5 | 15.6 | | 16.2 | 13.1 |
| LS83-5616 | 12.7 | 11.0 | 10.4 | 12.5 | 12.5 | 14.4 | 15.1 | | 13.4 | 11.9 |
| LS84-920 | 16.0 | 14.3 | 11.9 | 14.6 | 17.1 | 19.4 | 17.0 | | 19.0 | 14.4 |
| LS84-2643 | 17.2 | 13.2 | 14.2 | 17.7 | 15.6 | 22.3 | 18.6 | | 20.3 | 15.6 |
| LS84-4220 | 17.7 | 16.9 | 15.0 | 15.5 | 16.7 | 21.7 | 18.9 | | 20.9 | 15.7 |
| S85-1101 | 19.0 | 15.6 | 14.8 | 18.8 | 19.9 | 22.9 | 21.4 | | 20.3 | 18.6 |
| S85-1104 | 16.0 | 14.0 | 14.4 | 14.6 | 15.4 | 17.1 | 19.1 | | 18.0 | 15.7 |
| Ripley (dt) | 12.6 | 10.5 | 9.9 | 13.1 | 12.6 | 14.4 | 15.1 | | 12.8 | 12.7 |
| HC84-2063 (dt) | 17.1 | 15.1 | 13.2 | 17.9 | 18.6 | 20.5 | 17.0 | | 18.7 | 16.1 |
| HC84-2125 (dt) | 15.5 | 12.8 | 11.3 | 18.9 | 16.5 | 17.5 | 16.0 | | 16.8 | 14.5 |
| HC85-6450 (dt) | 15.9 | 12.5 | 12.3 | 15.3 | 18.9 | 17.6 | 17.9 | | 16.2 | 16.2 |
| HC85-6498 (dt) | 14.2 | 10.7 | 11.2 | 14.3 | 15.3 | 16.5 | 16.4 | | 13.8 | 15.4 |
| HC85-6568 (dt) | 15.5 | 12.3 | 12.3 | 15.7 | 16.9 | 18.1 | 17.1 | | 17.2 | 14.4 |
| HC85-6577 (dt) | 16.3 | 13.1 | 13.5 | 17.7 | 15.7 | 18.0 | 19.6 | | 16.1 | 16.3 |
| HC85-6723 (dt) | 16.4 | 13.1 | 13.2 | 17.7 | 18.5 | 15.9 | 17.6 | | 16.5 | 18.5 |

## UNIFORM PRELIMINARY TEST IVB, 1988

### PROTEIN (%)

| Strain | Mean 5 Tests | Eldorado IL | Manhattan KS | Lexington KY | Queenstown MD | Ripley OH |
|---|---|---|---|---|---|---|
| Flyer (E) | 41.6 | 42.8 | 42.0 | 41.0 | 40.7 | 41.5 |
| Pennyrile (L) | 42.0 | 42.9 | 42.3 | 41.9 | 41.2 | 41.6 |
| Pyramid (SCN) | 39.7 | 38.3 | 39.9 | 41.8 | 39.4 | 39.1 |
| Spencer (IV) | 40.3 | 40.6 | 41.8 | 40.8 | 38.8 | 39.6 |
| HC84-4779 (Dt) | 40.7 | 40.8 | 41.1 | 40.5 | 39.6 | 41.3 |
| HC84-4845 (Dt) | 39.0 | 39.8 | 38.8 | 39.2 | 37.1 | 40.2 |
| HC84-4850 (Dt) | 40.5 | 40.4 | 41.2 | 39.2 | 40.7 | 40.8 |
| HC84-4874 (Dt) | 39.4 | 39.8 | 38.7 | 39.2 | 38.6 | 40.5 |
| HC85-5176 (Dt) | 39.8 | 38.9 | 39.8 | 41.0 | 37.9 | 41.3 |
| HC85-5273 (Dt) | 40.0 | 40.5 | 41.2 | 39.6 | 39.1 | 39.6 |
| HM87108 | 41.0 | 40.0 | 41.4 | 41.9 | 40.5 | 41.4 |
| Md85-5376 | 41.4 | 41.1 | 42.0 | 41.7 | 41.9 | 40.4 |
| Md85-5443 | 42.0 | 42.8 | 42.5 | 41.6 | 40.3 | 42.6 |
| LS82-1510 | 41.6 | 40.8 | 41.5 | 42.3 | 42.1 | 41.5 |
| LS83-519 | 40.7 | 40.0 | 40.5 | 40.4 | 42.3 | 40.4 |
| LS83-5616 | 39.5 | 38.9 | 39.3 | 40.2 | 40.3 | 38.8 |
| LS84-920 | 40.9 | 41.2 | 39.5 | 42.2 | 40.7 | 40.8 |
| LS84-2643 | 41.4 | 40.3 | 40.1 | 42.7 | 41.3 | 42.8 |
| LS84-4220 | 42.6 | 41.8 | 41.4 | 44.4 | 42.6 | 42.8 |
| S85-1101 | 42.9 | 41.9 | 43.4 | 44.6 | 40.8 | 43.9 |
| S85-1104 | 41.5 | 41.8 | 42.5 | 41.7 | 40.3 | 41.0 |
| Ripley (dt) | 38.7 | 39.3 | 37.8 | 38.9 | 38.6 | 39.1 |
| HC84-2063 (dt) | 40.1 | 40.0 | 39.2 | 40.4 | 39.1 | 41.9 |
| HC84-2125 (dt) | 40.5 | 39.9 | 38.1 | 42.3 | 39.6 | 42.5 |
| HC85-6450 (dt) | 40.8 | 41.4 | 39.8 | 40.5 | 39.7 | 42.4 |
| HC85-6498 (dt) | 41.0 | 41.8 | 39.0 | 42.8 | 38.4 | 42.8 |
| HC85-6568 (dt) | 41.7 | 42.3 | 40.3 | 42.9 | 41.0 | 42.2 |
| HC85-6577 (dt) | 41.0 | 41.3 | 40.0 | 41.9 | 39.6 | 42.3 |
| HC85-6723 (dt) | 41.7 | 42.8 | 41.7 | 41.4 | 40.7 | 42.1 |

## UNIFORM PRELIMINARY TEST IVB, 1988

### OIL (%)

| Strain | Mean 5 Tests | Eldorado IL | Manhattan KS | Lexington KY | Queenstown MD | Ripley OH |
|---|---|---|---|---|---|---|
| Flyer (E) | 20.9 | 21.2 | 20.3 | 20.9 | 21.4 | 20.5 |
| Pennyrile (L) | 20.3 | 20.6 | 19.6 | 20.1 | 20.9 | 20.4 |
| Pyramid (SCN) | 20.2 | 21.0 | 19.7 | 19.3 | 20.1 | 20.8 |
| Spencer (IV) | 21.4 | 22.0 | 19.6 | 21.6 | 22.5 | 21.4 |
| HC84-4779 (Dt) | 21.4 | 21.8 | 20.9 | 21.6 | 21.9 | 20.8 |
| HC84-4845 (Dt) | 22.1 | 23.5 | 21.2 | 22.1 | 23.1 | 20.5 |
| HC84-4850 (Dt) | 21.7 | 22.9 | 20.9 | 21.9 | 22.2 | 20.8 |
| HC84-4874 (Dt) | 22.6 | 23.5 | 22.5 | 22.4 | 22.9 | 21.9 |
| HC85-5176 (Dt) | 21.0 | 22.3 | 20.4 | 20.3 | 21.7 | 20.5 |
| HC85-5273 (Dt) | 22.1 | 22.4 | 20.9 | 22.9 | 22.2 | 22.0 |
| HM87108 | 20.2 | 20.4 | 19.8 | 20.3 | 20.9 | 19.8 |
| Md85-5376 | 20.8 | 22.0 | 19.5 | 20.7 | 20.8 | 21.0 |
| Md85-5443 | 20.7 | 21.2 | 19.9 | 20.9 | 21.1 | 20.4 |
| LS82-1510 | 20.3 | 21.1 | 19.6 | 20.4 | 20.4 | 19.8 |
| LS83-519 | 20.6 | 20.8 | 20.2 | 21.1 | 20.1 | 20.8 |
| LS83-5616 | 20.6 | 20.6 | 19.9 | 20.4 | 20.3 | 21.8 |
| LS84-920 | 20.0 | 20.3 | 20.1 | 20.1 | 19.4 | 20.1 |
| LS84-2643 | 20.4 | 21.3 | 20.8 | 19.7 | 20.6 | 19.8 |
| LS84-4220 | 20.2 | 21.5 | 19.9 | 19.6 | 20.9 | 19.3 |
| S85-1101 | 20.4 | 21.5 | 19.8 | 19.9 | 21.1 | 19.9 |
| S85-1104 | 20.7 | 21.2 | 19.9 | 20.9 | 21.0 | 20.6 |
| Ripley (dt) | 21.6 | 21.1 | 21.8 | 22.1 | 21.9 | 21.3 |
| HC84-2063 (dt) | 22.1 | 22.4 | 21.3 | 22.9 | 22.0 | 21.7 |
| HC84-2125 (dt) | 21.4 | 21.8 | 21.8 | 21.3 | 21.9 | 20.2 |
| HC85-6450 (dt) | 21.9 | 23.2 | 21.0 | 22.4 | 22.3 | 20.4 |
| HC85-6498 (dt) | 21.2 | 21.3 | 21.8 | 20.9 | 22.8 | 19.3 |
| HC85-6568 (dt) | 21.2 | 21.6 | 21.0 | 21.4 | 21.4 | 20.8 |
| HC85-6577 (dt) | 21.8 | 21.7 | 22.1 | 22.0 | 22.2 | 20.8 |
| HC85-6723 (dt) | 21.6 | 21.7 | 20.6 | 22.7 | 21.8 | 21.1 |