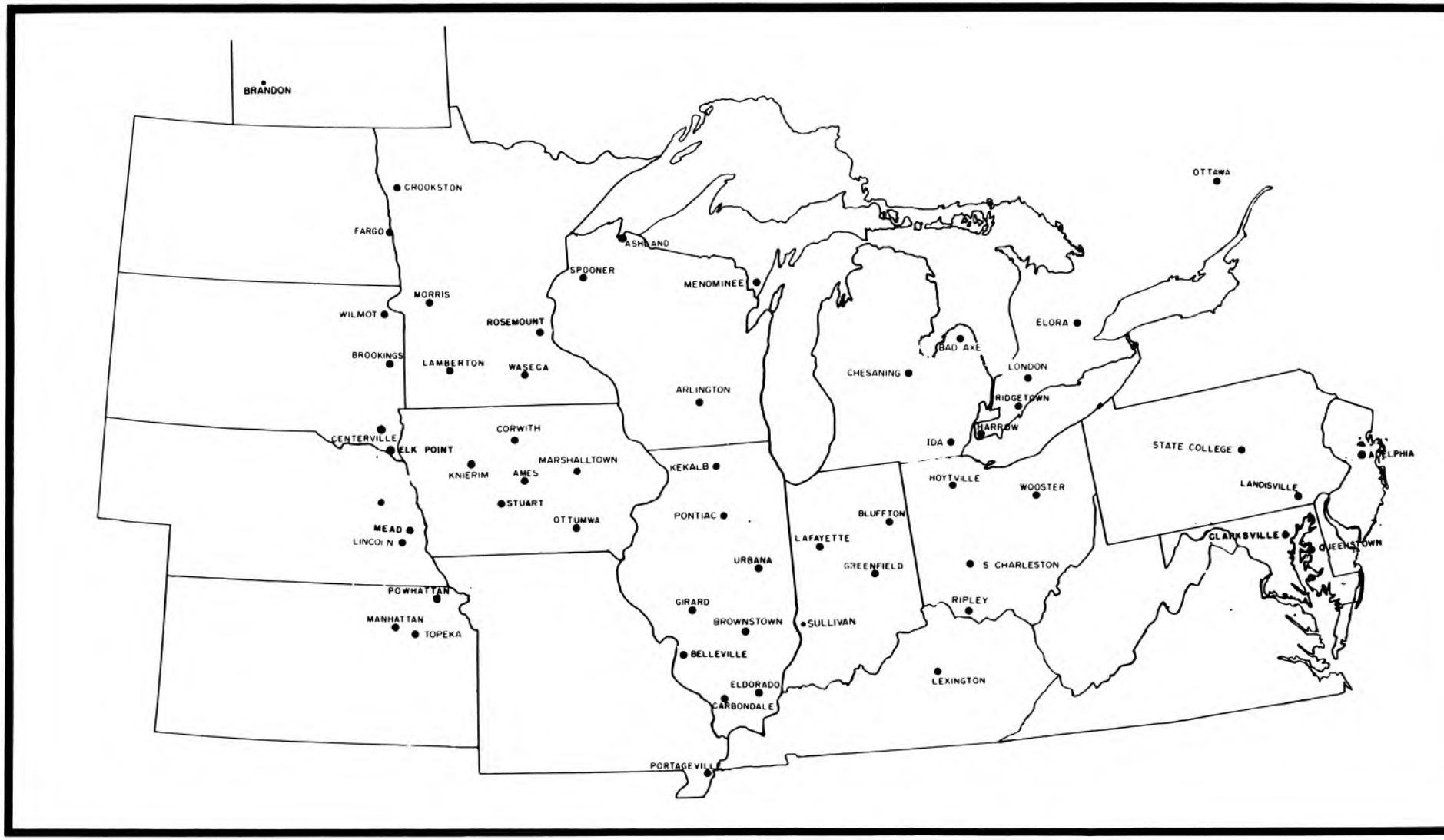

LOCATIONS OF UNIFORM SOYBEAN TESTS, NORTHERN STATES, 1983

THE UNIFORM SOYBEAN TESTS

NORTHERN STATES

1989

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 Statements or data in the report, therefore, should not be published unless permission has been obtained previously by those concerned.

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

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, HS - S. K. St. Martin)
K	Kansas A.E.S.
Ky	Kentucky A.E.S.
L	Illinois A.E.S. (L - R. L. Bernard, LG - R. Nelson, 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.
OT	Central Experimental Farm, Ottawa, Ontario
OAC	University of Guelph, Guelph, Ontario
ORC	Ridgetown College, Ontario
OX	Research Station, Harrow, 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 Soybean Tests but must be a pure line the second year of testing. It is up to the breeder to clean up heterogeneous lines. If the breeder plans on purifying the line, please so indicate, and the line will be marked so 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	Glenwood	-5 to +3	McCall (00)	Sibley (I)
I	Sibley	-4 to +4	Glenwood (0)	Sturdy (L)
II	Kenwood	-4 to +4	Sturdy (I)	Burlison (L)
III	Resnik	-4 to +4	Burlison (II)	Flyer (IV)
IV	Spencer	-4 to +7	Flyer (E)	Pennyrile (L)

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 ≥ 95%
2 = 91 - 95%
3 = 85 - 90%
4 = 76 - 84%
5 < 76

DISEASE

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

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

An additional classification to describe the extent of 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 are 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 are as follows:

1 = No root rot, very vigorous
2 = No root rot, vigorous
3 = No root rot, average vigor
4 = No root rot, slight stunting
5 = Up to 10% dead plants, slight stunting
6 = Up ro 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-dectrose 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.

METRIBUZIN TOLERANCE

Metribuzin tolerance tests were conducted by the Mobay Corporation. Uniform test entries were evaluated for reaction to SENCOR in a hydroponics test. Entries were placed into one of three groups:

1) Above Normal Tolerance - strains consistently showing the greatest tolerance to SENCOR.
2) Normal Tolerance - strains showing good tolerance to SENCOR.
3) Sensitive - strains showing the least tolerance to SENCOR where use of SENCOR is not recommended

Within each tolerance group, strains were ranked according to their tolerance to metribuzin with tolerance decreasing from top to botton as strains moved down the list. Strains falling into the same vertical bracket showed equal tolerance. Commercial varieties with known tolerance were included as "marker" varieties to determine accuracy of the test. **The results are based on a single test and additional greenhouse/or field tests are recommended to accurately determine the tolerance of the strains to metribuzin.**

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 V 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 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 evaluated in Regional Cyst Nematode (SCN) Tests may also be entered directly into the UT.

Strains may be considered for release after they have been evaluated for two years in the UT. Exceptions to this are special purpose strains or strains derived from four or more backcrosses to a released cultivar; these may be considered for release after one year in the UT. 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 States 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 1989

Variety	Exp. Desig.	Uniform Test Evaluations
Amcor 89	HC Amcor	UT II 1988
Bass	Md83-2048	UT III 1987-1989, PT IVB 1986
Bell	LN85-874	UT I 1989, PT I 1988, SCN I 1987-1988
Hamilton	LN82-2366	UT IV 1986-1989, PT IVA 1985
Hayes	HM8482	PT IIIA 1985
Jack	LN83-3824-1	PT IIIA 1988, SCN II 1986-87, SCN IIA 1988-89
Kato	M81-382	UT I 1986-1988, PT I 1985
Kenwood	A85-291001	UT II 1987-1988, PT IIB 1986
Linford	L82C-1246	SCN III 1986-87, SCN IIIA 1988-89
Marcus	A85-193023	UT II 1988, UT I 1987, PT I 1986
Minnatto	M86-2372	UT 0 1989
Proto	M77-251	UT 0 1985
Sturdy	M81-384	UT I 1987-1989, UT II 1986-1989, PT I 1985

Variety	Release Date	Releasing States	Found. Seed Production
Amcor 89	October 1, 1989	OH	1989
Bass	August, 1989	IN, MD, NJ, PA	1989
Bell	August 1, 1989	IL, MN	1989
Hamilton	August 1, 1989	IL, IN, MO, NE, OH	1989
Hayes	February, 1989	OH	1988
Jack	August 1, 1989	IA, IL	1989
Kato	February 15, 1989	MN, WI	1988
Kenwood	August 15, 1989	IA, IL, NE, OH, WI	1989
Linford	August 1, 1989	IL, IN, MO	1989
Marcus	August 15, 1989	IA	1989
Minnatto	June 15, 1989	MN	1989
Proto	February 15, 1989	MN, ND	1989
Sturdy	February 15, 1989	MN, SD	1989

1989 DISEASE, SHATTERING, AND DESRIPTIVE DATA

Location		Tests Conducted By:	Tests	U.T.	P.T.
IA	Ames	J. Dunleavy	BTS	I-III	
	Ames	W. R. Fehr	Iron Chlorosis	00-III	I-III
	Ames	W. R. Fehr	Emergence	00-IV	
	Ames	R. Ruff	BSR	I-III	I-III
	Ames	R. Ruff	PR_4	I-III	I-III
IL	Urbana	C. D. Nickell	Bacterial Blight	II-IV	II-IV
			PR Innoc. Race 1	00-IV	I-IV
	Ridgway		SDS	III-IV	
IN	Lafayette	T. S. Abney & T. L. Richards	PS, PSB, SMV	II-IV	II-IV
KS	Manhattan	W. T. Schapaugh, Jr.	Shattering	00-IV	I-IV
MN	Lamberton	J. H. Orf	Iron Chlorosis	00-IV	
TX	Lubbock	R. D. Brigham	Shattering	III-IV	
VA	Orange	D. E. Starner & G. R. Buss	PS	IV	

UNIFORM TEST LOCATIONS - 1989

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]		
	Corwith	W.R. Fehr			X				X			
	Halbur	W.R. Fehr				X						
	Marshalltown	W.R. Fehr								X		
	Nashua	W.R. Fehr			X							
	Royal	W.R. Fehr			X[1]				X[1]			
	Fairfield	W.R. Fehr									X	
	Tingley	W.R. Fehr					X					
	Winterset	W.R. Fehr					X[1]				X[1]	
IL	Belleville	M. Schmidt						X				
	Carbondale	M. Schmidt						X				X
	Dekalb	C.D. Nickell				X						
	Gibson City	C.D. Nickell				X						
	Ridgway	C.D. Nickell					X	X				
	Urbana	C.D. Nickell				X[1]	X	X		X[1]	X[1]	X
IN	Bluffton	J.R. Wilcox				X						
	Lafayette	J.R. Wilcox			X	X[1]	X[1]	X		X[1]	X[1]	
	Vincennes	J.R. Wilcox						X[1]				
KS	Manhattan	W.T. Schapaugh					X	X			X	X[1]
	Topeka	W.T. Schapaugh					X	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				X
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]			
	Moorhead	J.H. Orf	X									
	Morris	J.H. Orf		X								
	Rosemount	J.H. Orf		X[1]								
	Shelly	J.H. Orf	X[1]									
	Waseca	J.H. Orf			X	X[1]			X[1]			
MO	Columbia	H. Minor					X	X[1]				
	Portageville(Loam)	S.C. Anand						X				X

UNIFORM TEST LOCATIONS - 1989

Location		Tests Conducted By:	Uniform Tests						Preliminary Tests			
			00	0	I	II	III	IV	I	II	III	IV
NE	Concord	L. Korte			X	X				X		
	Lexington	&G. Graef					X				X	
	Lincoln	L. Korte					X				X	
	Madison	&G. Graef				X						
	Mead	L. Korte			X	X				X^1		
	Oak	&G. Graef					X					
NJ	Adelphia	J.R. Justin				X	X	X		X		
ND	Casselton	T. Helms	X	X^1								
OH	Hoytville	B.A. McBlain				X	X			X	X^1	
	Mt. Orab	S. St. Martin					X	X^1				X^1
	S. Charleston	R.L. Cooper					X	X			X	X
	Wooster	B.A. McBlain				X^1	X^1					
ONT	Elora	P. Gostovic	X^1									
	Inwood	G.R. Ablett			X							
	London	P. Gostovic			X^1							
	Malden	R.I. Buzzell				X						
	Ottawa	H.D. Voldeng	X	X								
	Ridgetown	G.R. Ablett								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. Bonneman			X	X			X			
	Centerville	J.J. Bonneman				X				X		
	Elk Point	J.J. Bonneman					X					
	Wilmot	J.J. Bonneman		X	X							
WI	Arlington	E.T. Gritton			X	X			X	X		
	Ashland	E.T. Gritton	X									
	Spooner	E.T. Gritton		X								
VA	Orange	G.R. Buss D.E. Starner						X				
X	Location with Agronomic Data		8	9	16	22	21	19	7	12	9	8
X^1	Location With Seed Compostion Data		3	3	3	5	3	4	3	4	4	3

IDENTIFICATION OF PARENT STRAINS, 1989

Strain	Parentage
A1	Anoka x Mack
A2	M63-17 x C1453
A8	A75-332035 x Century
A55-5629	Roanoke x Hawkeye
A71-5558-1	Wirth x AX210-39-2
A72-507	Amsoy x Wayne
A72-512	Amsoy x Wayne
A73-19084	IVR Ex5003 x Wells
A73D16	Hark x Wayne
A73D22	Amsoy x L61-344
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
A76-202015	AP6
A76-304005	AP6
A76-304020	(Beeson x AP68-1016) x (L15 x Calland)
A77-316013	Intermated BSR population
A78-121014	Pride B216 x Hodgson
A78-123018	Pride B216 x Hodgson
A78-227013	Pride B216 x AX901-40-2
A78-227015	Pride B216 x AX901-40-2
A78-323019	A72-512 x Northrup King S1346
A78-324002	A72-512 x Pride B216
A79-134008	AP6 (S1)C1
A79-136012	Pride B216 x Land O'Lakes 4102
A79-236002	Pride B216 x Cumberland
A79-236003	Pride B216 x Cumberland
A79-334010	Pride B216 x Land O Lakes Max
A80-147002	Northrup King S1492 x Pella
A80-147003	Northrup King S1492 x Pella
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
A80-250034	A75-204018 x Pella
A80-344003	A75-332035 x Century
A80-346029	A75-204018 x BSR 301
A81-151026	A75-204018 x Century
A81-156027	A76-202015 x A76-304020
A81-157024	Pride B216 (2) x A2
A81-257010	A77-116013 x Asgrow A2656
A81-356022	Century x A76-304020
A82-267015	AP6MTW 2YT (F4) C2
A83-276024	A77-316013 x Hardin
A83-376026	A78-227013 x Asgrow A3127
A1895	A2575 x L73-827
A2575	Unknown
Agripro 1235	Blend 75% IVR 1120 : 25% Steele
AP6	40 lines intermated (Crop Sci.15:739, 1975)
AP68-1016	Clark (5) x PI 84.946-2
AP68-1022	Clark (5) x PI 84.946-2
Asgrow A1937	Hodgson 78 x Wayne

IDENTIFICATION OF PARENT STRAINS, 1989

Strain	Parentage
Asgrow A3127	Williams x Essex
Asgrow A3659	Williams x Essex
Asgrow A4268	Williams x Essex
AX162-12	Ford x PI 68.708
AX210-39-2	D49-2491 (4) x AX162-12
AX901-40-2	Beeson x AP68-1022
BD22115	(Amsoy x Portage)F1 x (Holmberg) 840-7-3
BK-17-1-4	Unknown
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
C1528	Calland x L63-1397
C1622	Harcor x L69U37-17-5
C1627	Century x Hodgson
Coker 237	Hutton x N63-858
CX456-90	Amsoy x PI 219.782
CX663-37-2-2-1-6	L72-844c-1 x CX456-90
CX773-28-3-4	A73D22 x Essex
CX782-257-3-1	Fiskeby V x Essex
CX859-112	HW74-3385 x Century
D49-2491	S100 x CNS; Lee sib
D49-2525	S100 x CNS
D51-4877	Roanoke x N45-745
D53-184	D49-2525 x L46-5679
D53-354	D49-2525 x L6-5679
D55-4166	Ogden x Biloxi
D56-1185	Perry x Lee
D58-3358	Jackson (4) x D49-2491
D59-9289	D51-4877 x D55-4166
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
D63-6042	D49-2491 (4) x PI 163.453
D63-6100	Hill (4) x PI 171.442
D65-6765	D58-3358 x D59-9289
D66-7398	D61-3505 x (PI 96.035 X D61-2624)
D66-12392	D63-6100 x Dyer
D67-135	D61-5141 x D63-6042
D68-18	Dyer x Bragg
F7-79	Mamloxi x C.P.I. 26673 (Morroco)
FH22-815	Fiskeby V x Harosoy 63
FH31-3	Fiskeby V x Harosoy 63
FR61 I	Amsoy 71 x Chippewa 64
HC74-634RE	Williams x Ransom
HC74-678	Amsoy 71 x Ransom
HC74-3400	Williams x Ransom
HC76-4030	L72U-2567 x Essex
HC78-245	L72U-2567 x F7-79
HC78-279	L72U-2567 x Essex
HC78-350	L72U-2567 x Essex

IDENTIFICATION OF PARENT STRAINS, 1989

Strain	Parentage
HC78-353	L72U-2567 x Essex
HC78-354	L72U-2567 x Essex
HC78-676	L70T-543G x L74D-619
HC78-826	Hodgson x L74D619
HW74-3366	Williams x Ransom
HW74-3385	Williams x Ransom
HW8008	L69U40-16-4 x Century
HW8028	A75-105021 x Century
HW8039	Weber x Pella
HW8123	A76-20215 x A76-304005
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 82.263-21
IVR 1120	Provar x (Amsoy x PI 91.110-1)
IVR Ex4731	Amsoy x Wayne
IVR Ex5003	Provar x (Amsoy x PI 191.110-1)
IX93	A71-5558-1 x L61-344
J22	Arksoy 2913 x Dunfield
J74-5	Forrest x (D68-18 x PI 88.788)
Jacques 'J103'	Clay x Williams
K74-104-76-205	Tracy x Williams
K74-113-76-486	Tracy x Pomona
K1007	Bonus x Cutler
K1047	Tracy x Bonus
K1062	Tracy x Williams
L6	L8 x L7; Clark-Rps1 rxp
L7	Clark (8) Rps1 x Blackhawk
L8	Clark (6) rxp x L49-4091
L6-5679	Lincoln x Richland
L15	Wayne (6) x Clark 63; Rps1 isoline
L46-5679	Lincoln x Richland
L49-4091	[F3 Lincoln (2) x Richland] x (F1 Lincoln x CNS)
L60-347-1-60-2B	Harosoy x Higan
L61-344	Harosoy (6) Dt2 x T117
L62-361	Harosoy (6) Dt2 x T117
L62-535	Harosoy (6) dt1 x T145
L62-1251	Clark (6) Dt2 x T117
L62-1926	Clark (6) x PI 86.024; e2 isoline
L63-1397	Harosoy (6) Dt2 x PI 80.837
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)
L67-592	Clark (6) S x Higan
L68-4096	[L15 (5) r x L12] x [Wayne (10) Rpm x Kanrich]
L69L-3	L66-531 x L62-535
L69U37-17-5	Calland x Corsoy
L69U40-16-4	Calland x Amsoy
L70-2283	Chippewa x Custer
L70T-543G	L15 x Amsoy 71
L71-3628	L66-1322 x L62-535
L72-844C-1	Williams (5) Rps1 Rpm x L68-4096
L72U-2567	Williams x Ransom

IDENTIFICATION OF PARENT STRAINS, 1989

Strain	Parentage
L73-827	L6 x (L67-592 x L62-1251); Clark-Rps1 rxp S Dt2
L73-4124	D66-12392 x L69L-3
L74D-619	Williams x Ransom
L74D-634	Williams x Ransom
L75-3632	Corsoy (6) x Lee 68; Rps1-c isoline
L75-8020	Williams x L70-2283
L76-0022	Williams (4) x PI 171.451
L76-0474	Steele x PI 229.358
L77-443	Union x L75-8020
L77-906	Williams x PI 209.332
L77-1836	Williams (7) Rps1-b x Harrel
L78-189	Corsoy (8) Rps1-k x Kingwa
L78-8694	L71-3628 x Elf
L78L-449	L73-4124 x Essex
Land O Lakes 'Max'	[Wayne x (Clark x Adams)] x Cutler
Land O Lakes 4102	Unknown
LN78-257	Union x C1528
LN80-7532	Century x A76-304020
LN80-7603	Century x A76-304020
LN80-9447	Weber x A76-202015
LN80-9452	Weber x A76-202015
LN80-10398	Century x Land O Lakes 'Max'
LN80-10508	Century x Land O Lakes 'Max'
LN80-11178	A76-202015 x A76-304020
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-W124-1	Franklin x J7405
LS79-W220	Forrest x V71-480
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
M61-20	Merit x Comet
M61-224	Merit x Harosoy
M62-93	Merit x M54-110
M62-263	Grant x M319W
M63-17	M405 x M406
M63-158	PI 261.475 x Pridesoy II
M63-217Y	Corsoy x M53-117; Y hilum sib of Hodgson
M64-3	Traverse x PI 196.163
M65-69	M54-12 x Corsoy
M65-207	Clark x Hark
M66-30	Magna x M61-20
M67-141	Corsoy x Wayne
M68-2	Wilkin x M59-120
M68-49	Evans x M59-120
M68-96	M59-120 x Amsoy 71
M68-99	M59-120 x Amsoy 71

IDENTIFICATION OF PARENT STRAINS, 1989

Strain	Parentage
M68-256	Evans x Steele
M69-20	Merit x Clay
M69-42	M63-158 (Bf) x Provar
M69-197	Evans x Lee
M69-288	Merit x D66-7398
M70-127	Evans x M63-217Y
M70-150	Merit x M64-3
M70-153	Steele x Hodgson
M70-271	Merit x M64-3
M70-330	M62-93 x M64-3
M70-440	Steele x (Evans x Lee)
M71-135	Evans x M62-263
M71-148	Clay x Evans
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	M68-96 x Hodgson
M74-167	Clay x Wells
M74-179	M68-256 x Clay
M74-270	M65-69 x M68-99
M74-337	Evans x Northrup King B186
M74-349	M68-49 x M65-207
M74-388	Evans x Agripro 1235
M74-394	Hodgson x Wells
M74-399	Hodgson x Wells
M74-498	PX20 x [Hodgson (4) Rps1 x Merit]
M75-2	Hodgson x [M67-141 x (Chippewa x Higan)]
M75-243	Evans x A73-19084
M75-274	Evans x L70T-543
M75-299	M69-288 x 554-5
M76-55	M69-20 x McCall
M76-142	M70-271 x Corsoy
M76-151	M70-271 x Hodgson 78
M76-160	M70-330 x [Hodgson (6) Rps1 x Merit]
M76-260	Harlon x M69-197
M76-402	Fr61 I x [Hodgson (6) Rps1 x Merit]
M77-75	Coles x M66-30
M77-120	M70-440 x M69-42
M77-164	M70-150 x Vickery
M77-210	M71-135 x Simpson
M319W	Lincoln x Hawkeye
M405	Capital x Renville
M406	Harosoy x Norchief
Madison GL2810	Unknown
Md77-5675	V68-1171 x Columbus
N44-92	Haberlant x Ogden
N45-745	Ogden x CNS
N45-2994	Ralsoy x Ogden
N48-1867	Roanoke x N45-745
N55-3818	(N45-2994 x Ogden) x (N44-92 x N48-1867)
N55-5931	Roanoke x D49-2491
N63-858	D58-3358 x D59-9289

IDENTIFICATION OF PARENT STRAINS, 1989

Strain	Parentage
N64-2451	(N55-5931 x N55-3818) x D56-1185
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 S1346	A55-5629-4 x PI 257.435
Northrup King S1492	Corsoy x Wayne
P6122	Harosoy x Capital
Peterson 85	Provar x (Amsoy x PI 248.404; Novosudska Bela)
Pride B152	Northrup King S1346 (6) x Mack
Pride B216	Corsoy x Wayne
Pridesoy II	Unknown
Profiseed 1138	Unknown
Prosoy PS104	Unknown
PRX54-59	Harosoy x Altona
PX20	Blend 50% Wells : 50% P6122
Riverside 2024	Unknown
T117	AK114 x PI 65.394 (Dt2, lw1, Lw2)
T145	Unknown
T175	Unknown
T8112	Unknown
Thompson 7803	Unknown
U46762	Merit x Cutler 71
U75326	Williams x PI 89.075
U75680	(Beeson x L15) x Amsoy 71
U76168	Williams x PI 89.075
U86413	PI 68.474-1 x PI 70.202
V63-76	Hill x D53-354
V66-318	D53-184 x J22
V68-1034	York x PI 71.506
V68-1171	PI 80.837 x V63-76
V71-480	V63-76 x V66-318
X8308-201	Unknown
554-5	Hodgson (4) x Merit
840-7-3	from Sven A. Holmberg, Sweden
1981	Unknown

HYDROPONICS SENCOR TOLERANCE TESTS

UNIFORM TEST 00

Above Normal Tolerance	Normal Tolerance	Sensitive
A3659*	Corsoy*	Maple Ridge
Essex*	Maple Presto	ND868
Williams 82*	Clay	OT88-11
Maple Glen	M85-582	Coker 156*
	OT87-7	
	McCall	
	OT87-4	
	OT88-8	
	Tracy M*	
	M84-93	
	M84-456	
	Amsoy 71*	
	ND2338	
	ND867	

UNIFORM TEST 0

Above Normal Tolerance	Normal Tolerance		Sensitive
A3659*	M84-748	Sibley	Coker 156*
Essex*	Corsoy*	M85-202	
Williams 82*	M85-260	M85-396	
	M85-314	Tracy-M*	
	M85-1112	M84-449	
	OT88-1	M85-81	
	OT88-2	M86-2372	
	M83-766	M85-85	
	M84-574	M85-564	
	M84-833	Amsoy 71*	
	M85-173	Glenwood	
	M83-744	M84-293	
	M84-395		
	M84-414		
	M85-23		
	M85-49		
	M85-52		
	M85-201		
	M85-339		

*Marker varieties

HYDROPONICS SENCOR TOLERANCE TESTS

UNIFORM TEST I

Above Normal Tolerance	Normal Tolerance	Sensitive
LN85-874	M82-106	Coker 156*
A3659*	ORC 8601	M84-1034
A87-198005	Sturdy	
ABSR-101BC	M84-916	
Essex*	Corsoy*	
A87-195-24	M83-108	
Williams 82*	E86237	
	M83-830	
	BSR-101	
	A87-195034	
	M82-559	
	M83-899	
	Tracy-M*	
	Amsoy 71*	
	M85-610	

UNIFORM TEST II

Above Normal Tolerance	Normal Tolerance		Sensitive
A3659*	ORC 8502	A86-103002	Burlison
LN83-3824-1	Kenwood	HM8625	Coker 156*
C1736	E86339	LN85-10234	
HM8735	LN85-10524	Tracy-M*	
LN85-6377	Corsoy*	U85-63023	
Essex*	E86315	U85-64055	
A87-198015	LN84-8147	A87D20	
C1732	A87-187007	Amsoy 71*	
HM8734	E86348		
A87-297015	A86-203034		
L85-6253	A86-204022		
Williams 82*	A87-187020		
	A87-195032		
	A87-196014		
	HS84-6247		

*Marker varieties

HYDROPONICS SENCOR TEST

UNIFORM TEST III

Above Normal Tolerance	Normal Tolerance		Sensitive
A3659*	A87-395012	HC85-6521	Coker 156*
Resnik	Cartter	HM8532	Burlison
U85-71084	Corsoy*	HM8632	HC84-180
Essex*	A87-396020	HC83-4532	
Hobbit 87	Flyer	A86-204022	
HM8597	A87-296012	A86-301024	
Williams 82*	Md8302048	HC84-4874	
HM8776	HC85-6724	A86-303014	
HM8777	A87-296011	Amsoy 71*	
LN84-2418	Dunfield	HM8636	
	HC85-6577		
	C1720		
	HC85-6500		
	LN84-3321		
	LN84-18266		
	U85-74089		
	A86-203034		
	HC84-1060		
	HC85-5273		

UNIFORM TEST IV

Above Normal Tolerance	Normal Tolerance		Sensitive
K1145	Spencer	S83-1084	Coker 156*
A3659*	Corsoy*	Tracy-M*	
C1738	HC85-6723	Ripley	
Md85-5443	LN82-2366	LN85-3402	
C1742	LN84-452	LS83-5616	
C1747	HC84-4851	Pyramid	
K1148	K82-1-48	LN85-3036	
Essex*	Pennyrile	S85-1101	
HC84-4850	K82-1-138	Amsoy 71*	
L83-3804	LN84-978	S83-1004	
Williams 82*	LN84-1304		
	LN84-15496		
	Md85-5376		

*Marker varieties

Tracy-M*

UNIFORM TEST 00, 1989

Strain	Parentage	Previous* Testing	Generation Composited	Unique Traits
Clay (0)	Renville x Capital	12	F5	
Maple Glen	BD22115 x Premier	3	F5	
Maple Presto	(Amsoy x Portage) x 840-7-3	1	F5	
Maple Ridge	Fiskeby III x Evans	9	F5	
McCall (00)	(Acme x Chippewa) x Hark	15	F5	
M84-93	M71-148 x Ozzie	1	F4	Rps1
M84-456	Simpson x M71-148	1	F5	Rps1
M85-582	McCall x Corsoy 79	-	F5	Rps1 Het
ND867	Wilkin x L62-361	2	F6	
ND868	Wilkin x L62-361	2	F6	
ND2338	Wilkin x L62-361	1	F6	
OT87-4	(Thompson 7803 x BK-17-1-4) x McCall	-	F7	
OT87-7	(Maple Presto x Williams) x Weber	1	F5	
OT88-8	(McCall x Maple Amber) x Maple Amber	-	F6	
OT88-11	Maple Ridge x Lakota	-	F6	

* Number of years in test or name of 1988 test.

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	Chlorosis Score		Emerg. Score	Shattering Score	PR Urbana
		Ames	Lamberton	Ames	Manhattan	Race 1
CLAY (0)	PGBDYI	2.9	1.5	1	1	S
MAPLE GLEN	PTBDYI	3.2	5.0	3	-	S
MAPLE PRESTO	PTBDYI	2.0	3.0	3	3	R
MAPLE RIDGE	PTBSYI	3.5	2.0	1	3	S
McCALL (00)	PGBDYI	2.1	2.5	2	2	S
M84-93	PGBDYI	3.2	2.0	1	1	R
M84-456	PGBDBfI	4.2	1.5	4	1	R
M85-582	PGBSYI	2.9	4.0	3	1	R
ND867	PGBSGI	2.8	2.0	3	1	R
ND868	PGBSGI	1.9	2.5	2	1	S
ND2338	PGBDYI	4.4	2.0	1	1	R
OT87-4	PGBDIbI	3.8	4.0	2	1	S
OT87-7	WTBSBrI	2.2	2.5	1	1	S
OT88-8	PTBSYI	4.5	5.0	3	1	R
OT88-11	PTBSYI	3.2	3.0	1	1	S

UNIFORM TEST 00, 1989

REGIONAL SUMMARY

	Yield	Rank	Maturity	Lodging	Plant Height	Seed Quality	Seed Size	Composition Protein	Composition Oil
No. of Tests	7	7	6	8	8	8	8	3	3
Strain	bu/a	No.	Date	Score	In	Score	g/100	%	%
CLAY (0)	22.7	6	7.3	1.3	18	1.5	12.9	41.3	20.0
MAPLE GLEN	25.3	5	4.0	1.3	19	1.8	14.7	41.0	20.1
MAPLE PRESTO	16.8	15	-13.5	1.1	19	2.8	12.6	40.0	19.3
MAPLE RIDGE	22.0	9	-8.2	1.1	18	2.2	12.1	41.9	18.0
McCALL (00)	26.2	4	09/12*	1.3	18	1.8	12.8	40.5	19.7
M84-93	22.0	9	4.3	1.2	18	1.8	12.0	40.9	19.8
M84-456	22.2	8	4.8	1.3	19	1.8	11.2	41.6	19.9
M85-582	22.7	6	5.0	1.3	21	1.9	12.1	40.8	19.0
ND867	20.9	12	-4.7	1.2	18	2.3	14.1	42.2	19.1
ND868	22.0	9	-3.5	1.2	19	2.3	14.5	41.7	20.1
ND2338	20.6	13	-3.5	1.2	18	2.2	14.2	42.2	19.1
OT87-4	27.2	1	-3.5	1.3	19	1.8	14.8	41.4	20.3
OT87-7	27.2	1	-2.0	1.3	18	1.6	12.7	39.9	21.5
OT88-8	19.4	14	-10.8	1.1	18	2.0	13.3	40.3	20.0
OT88-11	26.3	3	-5.2	1.2	19	2.0	12.1	41.8	19.1

*115.7 Days after planting

UNIFORM TEST 00, 1989

1987-1989, 2-YEAR MEAN

No. of Tests Strain	Yield 14 bu/a	Rank 14 No.	Maturity 12 Date	Lodging 15 Score	Plant Height 15 In.	Seed Quality 15 Score	Seed Size 15 g/100	Composition Protein 8 %	 Oil 8 %
Clay (0)	23.8	4	8.8	1.4	20	2.2	14.4	40.8	20.8
Maple Glen	24.5	2	5.6	1.3	20	2.2	16.0	41.2	20.6
Maple Presto	16.8	11	-14.8	1.2	19	3.2	13.4	39.8	20.2
Maple Ridge	21.2	9	-8.0	1.2	18	2.8	13.1	41.3	18.9
McCall (00)	24.1	3	09/05*	1.4	20	2.4	13.7	40.2	20.2
M84-93	22.5	6	6.7	1.2	20	2.3	13.3	40.4	20.4
M84-456	22.6	5	7.0	1.2	20	2.1	12.4	41.5	20.6
ND867	21.3	8	4.4	1.2	19	2.8	15.2	41.0	20.2
ND868	22.4	7	-2.6	1.2	20	2.8	15.6	40.8	20.9
ND2338	21.0	10	-3.4	1.2	19	2.8	15.0	41.1	20.0
OT87-7	25.8	1	-0.2	1.2	19	2.3	13.1	39.2	22.2

*110.4 Days after planting

1986-1989, 4-YEAR MEAN

No. of Tests Strain	30	30	27	31	31	30	31	18	18
Clay (0)	29.7	3	7.3	1.7	25	2.0	14.8	40.7	20.1
Maple Glen	32.9	1	5.5	1.5	26	2.1	16.8	40.8	25.3
Maple Ridge	28.8	5	-5.4	1.2	23	2.2	14.1	40.9	19.0
McCall (00)	30.6	2	09/09*	1.6	26	2.1	13.9	39.9	19.6
ND867	28.2	6	-2.4	1.4	26	2.4	16.6	40.4	20.2
ND868	28.9	4	-1.6	1.4	26	2.4	16.8	40.3	20.6

*111.2 Days after planting.

UNIFORM TEST 00, 1989

YIELD (bu/a)

Strain	Mean 7 Tests	Brandon Man.	Crook-ston MN	Moore-head MN	Shelly* MN	Cassel-ton ND	Elora Ont.	Ottawa Ont.	Spoon-er WI
CLAY (0)	22.7	14.0	14.9	13.7	6.2	13.4	40.0	34.3	28.4
MAPLE GLEN	25.3	23.2	13.6	13.6	10.3	12.8	49.2	37.8	27.0
MAPLE PRESTO	16.8	14.8	9.5	15.0	7.8	9.7	28.9	24.2	15.3
MAPLE RIDGE	22.0	21.3	14.3	16.9	5.3	12.0	39.4	28.8	21.2
McCALL (00)	26.2	27.8	12.6	22.4	6.1	13.9	44.3	32.6	29.9
M84-93	22.0	17.0	15.3	10.9	4.1	12.3	36.3	35.4	26.9
M84-456	22.2	15.9	12.1	20.7	3.3	12.1	36.2	32.5	25.7
M85-582	22.7	16.8	13.4	15.5	6.0	12.7	42.5	32.6	25.1
ND867	20.9	18.9	12.5	18.0	5.1	9.3	35.2	29.2	23.4
ND868	22.0	19.2	12.4	20.0	2.9	13.2	38.2	27.4	23.9
ND2338	20.6	15.3	9.6	20.1	4.5	9.1	37.8	28.5	23.6
OT87-4	27.2	24.3	17.4	19.1	7.3	11.7	50.0	38.2	29.9
OT87-7	27.2	26.5	14.1	19.8	5.3	15.8	49.3	38.9	26.3
OT88-8	19.4	18.5	11.8	14.0	10.4	10.7	33.8	28.8	18.4
OT88-11	26.3	26.7	12.7	22.1	6.8	14.3	43.5	38.1	26.4
C.V. (%)		14.2	24.1	34.7	49.5	21.6	6.9	6.8	11.6
L.S.D. (5%)		4.6	NS	NS	NS	4.2	4.0	3.1	4.8
Row Sp. (in.)		9	12	10	10	30	15	16	24
Rows/Plot		4	8	8	8	4	4	4	4
Reps		3	4	3	3	3	4	4	3

*Data Not Included In Mean

UNIFORM TEST 00, 1989

YIELD RANK

Strain	Yield Rank	Brandon Man.	Crook-ston MN	Moore-head MN	Shelly MN	Cassel-ton ND	Elora Ont.	Ottawa Ont.	Spoon-er WI
CLAY (0)	6	15	3	13	6	4	7	6	3
MAPLE GLEN	5	5	6	14	2	6	3	4	4
MAPLE PRESTO	15	14	15	11	3	13	15	15	15
MAPLE RIDGE	9	6	4	9	9	10	8	11	13
McCALL (00)	4	1	9	1	7	3	4	7	1
M84-93	9	10	2	15	13	8	11	5	5
M84-456	8	12	12	3	14	9	12	9	8
M85-582	6	11	7	10	8	7	6	7	9
ND867	12	8	10	8	11	14	13	10	12
ND868	9	7	11	5	15	5	9	14	10
ND2338	13	13	14	4	12	15	10	13	11
OT87-4	1	4	1	7	4	11	1	2	1
OT87-7	1	3	5	6	9	1	2	1	7
OT88-8	14	9	13	12	1	12	14	11	14
OT88-11	3	2	8	2	5	2	5	3	6

MATURITY (date)

Strain	Mean 6 Tests						
CLAY (0)	7.3	8	4	8	12	7	5
MAPLE GLEN	4.0	8	2	2	9	1	2
MAPLE PRESTO	-13.5	-3	-27	-19	-13	-5	-14
MAPLE RIDGE	-8.2	-2	-21	-6	-9	-5	-6
McCALL (00)	09/12	09/20	09/11	09/20	09/01	09/10	09/11
M84-93	4.3	7	2	1	8	4	4
M84-456	4.8	7	1	5	9	3	4
M85-582	5.0	5	-1	3	9	9	5
ND867	-4.7	0	-17	-5	-6	1	-1
ND868	-3.5	0	-14	-4	-2	0	-1
ND2338	-3.5	0	-15	-3	-4	1	0
OT87-4	-3.5	0	-15	-3	-2	0	-1
OT87-7	-2.0	0	-15	-6	-2	12	-1
OT88-8	-10.8	-3	-22	-14	-12	-5	-9
OT88-11	-5.2	-1	-17	-1	-4	-4	-4
Date Planted	05/20	05/03	05/17	06/01	05/13	05/27	05/25
Days to Mature	115.7	140	117	111	111	106	109

UNIFORM TEST 00, 1989

LODGING (score)

Strain	Mean 8 Tests	Brandon Man.	Crookston MN	Moorehead MN	Shelly MN	Casselton ND	Elora Ont.	Ottawa Ont.	Spooner WI
CLAY (0)	1.1	3.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
MAPLE GLEN	1.1	3.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
MAPLE PRESTO	1.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
MAPLE RIDGE	1.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
McCALL (00)	1.1	3.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
M84-93	1.1	2.7	1.0	1.0	1.0	1.0	1.0	1.0	1.0
M84-456	1.1	3.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
M85-582	1.1	3.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
ND867	1.0	2.3	1.0	1.0	1.0	1.0	1.0	1.0	1.0
ND868	1.1	2.7	1.0	1.0	1.0	1.0	1.0	1.0	1.0
ND2338	1.1	2.7	1.0	1.0	1.0	1.0	1.0	1.0	1.0
OT87-4	1.1	3.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
OT87-7	1.1	3.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
OT88-8	1.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
OT88-11	1.0	2.3	1.0	1.0	1.0	1.0	1.0	1.0	1.0

PLANT HEIGHT (inches)

Strain	Mean 8 Tests								
CLAY (0)	18	20	17	19	13	20	20	21	18
MAPLE GLEN	19	21	17	18	16	22	21	22	18
MAPLE PRESTO	19	20	16	15	17	19	23	23	17
MAPLE RIDGE	18	20	16	14	16	19	19	20	16
McCALL (00)	18	21	15	18	14	20	20	20	16
M84-93	18	21	16	19	14	19	20	21	15
M84-456	19	22	16	20	13	21	20	22	17
M85-582	21	23	19	20	14	21	26	24	17
ND867	18	22	18	16	14	18	22	20	15
ND868	19	22	15	19	15	21	24	22	16
ND2338	18	21	16	18	15	18	22	20	17
OT87-4	19	20	17	19	16	20	23	22	17
OT87-7	18	19	18	16	16	19	22	21	16
OT88-8	18	18	14	15	17	18	22	23	15
OT88-11	19	21	15	20	17	22	21	23	17

UNIFORM TEST 00, 1989

SEED QUALITY (score)

Strain	Mean 8 Tests	Brandon Man.	Crookston MN	Moorehead MN	Shelly MN	Casselton ND	Elora Ont.	Ottawa Ont.	Spooner WI
CLAY (0)	1.5	3.5	1.7	2.0	2.0	2.0	1.5	1.3	2.7
MAPLE GLEN	1.8	3.0	2.0	1.3	1.7	2.3	2.5	1.5	2.0
MAPLE PRESTO	2.8	3.0	4.0	4.0	3.3	4.3	3.0	1.9	2.0
MAPLE RIDGE	2.2	3.0	2.5	4.0	3.3	2.0	2.0	2.0	2.0
McCALL (00)	1.8	3.2	2.0	1.7	2.7	1.7	2.0	1.3	2.7
M84-93	1.8	3.5	1.7	1.3	2.7	2.0	2.0	1.2	2.3
M84-456	1.8	3.5	1.3	1.7	1.7	2.0	2.0	1.0	3.0
M85-582	1.9	3.0	1.7	2.7	1.5	1.7	2.0	1.5	2.3
ND867	2.3	3.2	2.0	3.7	1.7	3.3	2.0	1.7	2.7
ND868	2.3	3.0	3.0	4.0	2.0	3.0	2.0	1.0	2.0
ND2338	2.2	3.0	2.5	3.0	2.0	4.0	2.0	1.0	1.7
OT87-4	1.8	3.3	1.3	2.0	2.3	2.0	2.0	1.0	3.0
OT87-7	1.6	2.8	1.3	2.0	2.7	1.3	2.0	1.3	2.3
OT88-8	2.0	3.1	1.7	2.3	3.0	3.0	2.0	1.8	2.0
OT88-11	2.0	3.0	1.3	2.7	2.7	3.0	2.0	2.0	2.3

SEED SIZE (g/100)

Strain	Mean 8 Tests								
CLAY (0)	12.9	13.3	13.5	13.8	12.7	12.6	17.3	15.1	17.4
MAPLE GLEN	14.7	14.6	14.1	13.6	15.2	14.3	20.9	18.5	21.8
MAPLE PRESTO	12.6	14.5	12.4	12.2	12.4	12.7	17.0	15.4	16.5
MAPLE RIDGE	12.1	14.4	10.9	10.9	11.5	11.1	15.8	15.2	18.7
McCALL (00)	12.8	15.0	12.5	11.7	13.5	12.2	17.2	15.2	18.2
M84-93	12.0	12.2	13.0	13.4	11.2	11.3	15.2	14.4	16.3
M84-456	11.2	11.0	12.4	12.1	11.1	11.0	13.7	13.3	16.0
M85-582	12.1	12.8	12.9	11.5	12.4	11.1	17.0	13.7	17.7
ND867	14.1	15.8	13.1	12.0	13.2	12.5	20.0	18.1	20.9
ND868	14.5	16.5	12.6	13.3	14.1	14.2	20.1	17.5	21.8
ND2338	14.2	16.2	13.9	12.4	13.6	12.7	19.0	18.6	20.8
OT87-4	14.8	17.2	13.7	13.4	13.9	14.7	18.8	19.3	21.5
OT87-7	12.7	14.6	15.3	10.6	12.0	10.8	16.4	15.4	18.4
OT88-8	13.3	16.0	12.2	11.7	11.8	12.5	17.0	16.4	20.8
OT88-11	12.1	14.9	11.5	10.4	12.2	11.0	16.5	14.6	18.2

UNIFORM TEST 00, 1989

PROTEIN (%)

Strain	Mean 3 Tests	Crookston MN	Shelly MN	Elora Ont.
CLAY (0)	41.3	39.2	41.7	42.9
MAPLE GLEN	41.0	41.4	39.0	42.7
MAPLE PRESTO	40.0	39.2	40.3	40.6
MAPLE RIDGE	41.9	41.9	42.5	41.3
McCALL (00)	40.5	39.2	41.3	41.1
M84-93	40.9	40.0	41.6	41.2
M84-456	41.6	41.1	41.4	42.3
M85-582	40.8	40.3	40.9	41.3
ND867	42.2	41.1	42.1	43.3
ND868	41.7	40.5	42.5	42.2
ND2338	42.2	41.8	42.3	42.5
OT87-4	41.4	41.0	41.5	41.6
OT87-7	39.9	39.9	40.0	39.7
OT88-8	40.3	38.5	41.4	40.9
OT88-11	41.8	41.4	42.2	41.8

OIL (%)

Strain	Mean 3 Tests			
CLAY (0)	20.0	21.0	19.1	19.9
MAPLE GLEN	20.1	19.6	20.1	20.5
MAPLE PRESTO	19.3	19.9	18.0	20.0
MAPLE RIDGE	18.0	17.6	16.8	19.7
McCALL (00)	19.7	19.8	18.8	20.6
M84-93	19.8	20.7	18.1	20.7
M84-456	19.9	20.4	19.1	20.1
M85-582	19.0	18.7	18.0	20.2
ND867	19.1	19.7	18.5	19.0
ND868	20.1	20.8	18.9	20.5
ND2338	19.1	19.2	18.6	19.5
OT87-4	20.3	20.7	19.5	20.7
OT87-7	21.5	21.4	21.1	21.9
OT88-8	20.0	20.6	19.0	20.5
OT88-11	19.1	19.1	18.6	19.7

UNIFORM TEST O, 1989

Strain	Parentage	Previous* Testing	Generation Composited	Unique Traits
Glenwood (0)	Evans x Peterson 85	4	F5	
McCall (00)	(Acme x Chippewa) x Hark	9	F5	
Sibley (I)	M68-256 x Hodgson	2	F5	
M83-744	M73-129 x M73-37	2	F5	
M83-766	Evans x M74-394	2	F5	
M84-293	M71-148 x M75-2	1	F5	
M84-395	M75-243 x Dawson	1	F5	Rps1
M84-414	M75-243 x M76-260	1	F5	Rps1
M84-449	Simpson x M71-148	1	F5	Rps1
M84-574	Weber x M75-299	1	F5	Rps1
M84-748	M75-274 x M76-151	1	F5	Rps1
M84-833	M76-142 x Weber	1	F5	Rps1
M85-23	M71-148 x Simpson	-	F4	Rps1
M85-49	M73-62 x Simpson	-	F4	Rps1 Het
M85-52	M73-62 x Simpson	-	F4	Rps1
M85-81	M73-62 x Simpson	-	F4	Rps1
M85-85	M73-62 x Simpson	-	F4	Rps1
M85-173	M77-120 x Simpson	-	F4	Rps1
M85-201	A79-134008 x Ozzie	-	F4	Rps1
M85-202	A79-134008 x Ozzie	-	F4	Rps1
M85-260	Evans x M74-498	-	F5	Rps1
M85-314	Evans x M76-402	-	F5	Rps1 Het
M85-339	M71-148 x M76-402	-	F5	Rps1
M85-396	M73-62 x M74-399	-	F5	Rps1
M85-564	M74-337 x M74-23	-	F5	Rps1
M85-1112	M74-349 x M77-210	-	F5	Rps1
M86-2372	Evans x PI 437.267	-	F4	Rps1
OT88-1	BD22115-13 x Weber	-	F6	
OT88-2	X8308-201 x Weber	-	F6	

* Number of years in test or name of 1988 test.

UNIFORM TEST 0, 1989

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	Chlorosis Score Ames	Chlorosis Score Lamberton	Emerg. Score Ames	Shattering Score Manhattan	PR Urbana Race 1
GLENWOOD (O)	PGBDIbI	3.8	2.0	4	1	R
McCALL (OO)	PGBDYI	3.1	2.5	1	2	S
SIBLEY (I)	WGBSYI	4.0	4.0	2	3	R
M83-744	PGBDYI	2.5	2.0	1	3	S
M83-766	WGBDYI	3.5	4.0	1	1	R
M84-293	PGBDIbI	2.9	4.0	1	2	R
M84-395	PGBDBfI	2.2	2.5	1	2	R
M84-414	P+WGBDIbI	2.6	2.5	2	1	R
M84-449	PGBDYI	3.1	4.5	1	2	R
M84-574	WTBDBlI	3.1	3.5	3	1	R
M84-748	PGBDBfI	3.6	3.0	1	3	R
M84-833	WGBDYI	2.0	2.0	2	1	S
M85-23	WGBDBfI	3.1	4.0	3	1	R
M85-49	PGTDBfI	3.9	3.5	1	1	M
M85-52	P+WGBDBfI	3.4	5.0	1	1	R
M85-81	PGBDYI	2.4	1.5	1	1	R
M85-85	PGTDIbI	3.9	3.0	2	2	R
M85-173	P+WGBDBfI	3.1	2.5	2	2	R
M85-201	PGBDYI	3.0	2.5	5	1	R
M85-202	WGBDBfI	2.1	2.0	4	1	R
M85-260	WGBDBfI	3.9	2.0	1	2	R
M85-314	PGBDBfI	3.0	2.5	2	1	S
M85-339	WGBDBfI	3.4	3.5	2	1	R
M85-396	WGBDY+GI	3.1	2.0	1	2	S
M85-564	WTBDBlI	3.6	3.0	2	1	R
M85-1112	PGBDYI	1.9	2.0	2	1	R
M86-2372	WGTDYI	3.8	2.5	1	2	R
OT88-1	WTTSBrI	3.4	5.0	1	1	M
OT88-2	WTBSBlI	2.4	2.5	1	2	S

UNIFORM TEST 0, 1989

REGIONAL SUMMARY

	Yield	Rank	Maturity	Lodging	Plant Height	Seed Quality	Seed Size	Composition Protein	Composition Oil
No. of Tests	9	9	6	9	9	8	9	3	3
Strain	bu/a	No.	Date	Score	In.	Score	g/100	%	%
GLENWOOD (O)	31.3	25	09/19*	1.1	23	1.9	17.3	41.3	19.4
McCALL (OO)	28.0	29	-13.1	1.2	23	2.3	15.3	41.1	19.2
SIBLEY (I)	39.8	4	7.1	1.3	29	1.8	19.4	41.2	19.8
M83-744	36.7	16	2.7	1.1	24	1.5	18.1	42.0	19.2
M83-766	37.8	10	3.0	1.2	25	1.7	17.3	40.4	20.5
M84-293	36.9	14	0.0	1.2	26	1.9	15.6	39.8	20.0
M84-395	38.0	9	2.0	1.3	30	1.8	16.6	39.1	20.6
M84-414	38.4	8	1.9	1.2	27	1.6	16.9	40.5	20.5
M84-449	30.6	26	-4.3	1.2	23	2.1	15.3	41.3	19.5
M84-574	40.8	2	3.9	1.1	29	1.5	17.0	39.7	20.7
M84-748	39.8	4	1.6	1.2	26	2.0	16.8	42.0	19.9
M84-833	40.9	1	3.4	1.1	26	1.9	15.6	41.1	19.1
M85-23	28.1	28	-8.6	1.0	23	2.1	14.3	41.0	19.0
M85-49	37.6	11	1.6	1.2	22	2.3	16.3	39.4	20.6
M85-52	39.9	3	4.0	1.3	27	2.1	16.7	33.9	19.9
M85-81	34.2	21	-1.4	1.1	24	2.0	14.3	40.7	19.1
M85-85	36.8	15	0.9	1.1	23	2.0	15.5	40.4	20.4
M85-173	35.9	19	1.3	1.2	27	2.1	15.7	41.2	19.0
M85-201	36.5	17	4.0	1.1	27	2.1	16.2	41.5	19.6
M85-202	37.1	12	3.9	1.1	29	2.4	15.9	41.3	19.6
M85-260	37.1	12	6.4	1.1	25	1.7	16.4	40.8	19.6
M85-314	35.9	19	-1.0	1.3	28	2.1	15.7	39.9	20.2
M85-339	33.8	22	-0.7	1.2	27	1.7	15.6	41.5	20.3
M85-396	39.0	6	3.9	1.2	27	1.9	16.2	41.5	19.8
M85-564	33.6	23	-0.9	1.1	25	1.6	16.5	42.9	19.2
M85-1112	39.0	6	4.0	1.1	24	2.2	18.0	39.7	20.8
M86-2372	29.8	27	0.1	1.2	24	1.8	10.6	42.5	17.4
OT88-1	33.6	23	-2.9	1.2	26	2.4	21.5	41.5	19.3
OT88-2	36.4	18	-7.6	1.4	27	2.0	16.6	40.8	19.8

*122.6 Days after planting

UNIFORM TEST 0, 1989

1988-1989 2-YEAR MEAN

	Yield	Rank	Maturity	Lodging	Plant Height	Seed Quality	Seed Size	Composition Protein	Composition Oil
No. of Tests	18	18	15	18	18	17	18	8	8
Strain	bu/a	No.	Date	Score	In.	Score	g/100	%	%
Glenwood (0)	30.3	10	09/17*	1.3	24	2.1	17.0	41.4	20.1
McCall (00)	24.7	12	-12.6	1.3	23	2.5	15.0	41.2	19.9
Sibley (I)	35.9	2	6.8	1.5	30	1.9	18.0	41.0	20.2
M83-744	33.6	7	2.8	1.3	25	1.8	17.5	42.2	19.5
M83-766	33.4	9	3.6	1.4	26	1.9	16.9	41.0	20.6
M84-293	33.6	7	0.5	1.4	27	2.1	15.6	39.6	20.9
M84-395	34.0	6	2.4	1.6	30	2.1	16.4	39.7	20.6
M84-414	34.4	5	2.4	1.4	27	1.9	16.4	40.3	20.8
M84-449	28.7	11	-4.5	1.3	24	2.3	14.9	41.9	19.8
M84-574	35.7	4	3.7	1.3	29	1.9	16.5	39.8	21.0
M84-748	35.8	3	1.6	1.3	27	2.2	16.3	41.3	20.4
M84-833	36.5	1	2.0	1.3	26	2.1	15.3	41.2	19.6

*120.1 Days after planting.

1987-1989 3-YEAR MEAN

No. of Tests	25	26	23	26	26	25	26	13	13
Strain									
Glenwood (0)	36.2	4	09/17*	1.3	27	1.7	17.2	40.6	20.1
McCall (00)	27.9	5	-12.4	1.3	26	2.4	15.0	40.4	20.1
Sibley (I)	40.1	1	7.3	1.7	33	1.7	18.4	40.5	20.1
M83-744	38.6	2	2.9	1.3	27	1.8	17.4	41.4	19.5
M83-766	38.1	3	3.6	1.3	29	1.8	16.6	40.4	20.6

*118.7 Days after planting.

UNIFORM TEST O, 1989

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
GLENWOOD (O)	31.3	22.6	43.8	36.3	11.3	31.8	37.3	34.5	41.2	23.0
McCALL (OO)	28.0	24.3	38.5	35.8	7.4	32.6	31.4	29.9	29.9	22.2
SIBLEY (I)	39.8	38.3	49.2	36.2	17.0	35.8	49.2	50.5	56.0	25.7
M83-744	36.7	33.8	45.6	47.4	17.2	35.4	38.9	42.4	45.4	24.1
M83-766	37.8	32.2	44.5	46.2	16.9	38.0	44.8	38.5	53.3	25.5
M84-293	36.9	31.5	47.8	33.7	16.3	37.8	37.2	46.0	48.7	33.0
M84-395	38.0	38.7	48.5	39.2	21.7	36.8	38.2	45.0	48.0	25.9
M84-414	38.4	27.2	55.8	42.3	16.9	36.3	46.4	49.7	47.5	23.3
M84-449	30.6	20.1	37.5	34.7	10.0	35.1	32.1	32.4	43.5	30.1
M84-574	40.8	33.9	50.8	42.0	16.3	38.0	46.8	54.7	51.4	33.1
M84-748	39.8	33.1	59.9	38.0	14.0	43.0	42.1	45.6	52.9	29.5
M84-833	40.9	41.0	57.7	39.0	20.0	38.6	43.5	47.2	50.9	29.8
M85-23	28.1	20.0	37.2	32.5	8.4	32.1	26.1	33.1	36.7	27.2
M85-49	37.6	29.4	50.3	40.6	15.8	37.7	40.8	45.8	51.2	27.0
M85-52	39.9	35.9	58.3	39.1	15.5	40.9	37.8	51.0	49.6	30.8
M85-81	34.2	25.7	51.1	40.6	9.9	34.0	37.2	39.0	45.5	24.6
M85-85	36.8	27.5	57.1	45.3	14.1	35.3	37.7	40.7	47.0	26.9
M85-173	35.9	31.4	47.9	41.2	15.2	34.1	37.4	40.0	50.5	25.4
M85-201	36.5	29.4	58.6	33.7	14.8	36.3	40.8	37.7	51.6	25.7
M85-202	37.1	34.4	48.6	37.8	16.6	35.8	39.6	48.2	49.3	23.9
M85-260	37.1	40.9	46.3	43.8	15.2	34.4	34.7	41.9	54.7	22.3
M85-314	35.9	31.2	51.2	39.5	13.5	34.9	42.3	35.6	44.8	30.2
M85-339	33.8	29.7	42.9	37.1	13.9	35.0	35.9	39.4	41.5	28.8
M85-396	39.0	34.2	60.9	42.8	12.5	35.6	47.5	43.5	50.4	23.5
M85-564	33.6	25.9	41.4	38.2	15.4	33.7	38.9	39.6	45.9	23.5
M85-1112	39.0	31.4	54.1	43.0	19.4	37.3	47.1	44.4	49.9	24.4
M86-2372	29.8	21.0	46.0	32.7	11.1	29.7	33.7	31.3	39.1	23.5
OT88-1	33.6	22.8	46.2	28.8	11.9	37.4	41.6	48.1	42.6	22.9
OT88-2	36.4	41.7	50.4	29.3	11.0	39.0	39.1	48.1	45.0	24.0
C.V. (%)		16.7	13.9	10.4	24.3	7.3	16.4	11.2	8.6	15.6
L.S.D. (5%)		7.2	11.1	6.5	5.6	3.7	9.9	6.8	6.5	6.6
Row Sp. (In.)		20	10	10	30	16	16	15	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 O, 1989

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
GLENWOOD (O)	25	26	24	20	23	28	21	25	26	26
McCALL (OO)	29	24	27	22	29	26	28	29	29	29
SIBLEY (I)	4	5	14	21	5	14	1	3	1	13
M83-744	16	10	22	1	4	17	16	15	20	19
M83-766	10	12	23	2	6	5	6	22	3	15
M84-293	14	13	18	24	9	7	22	9	14	2
M84-395	9	4	16	13	1	11	17	12	15	12
M84-414	8	21	7	7	6	12	5	4	16	25
M84-449	26	28	28	23	26	19	27	27	23	5
M84-574	2	9	11	8	9	5	4	1	6	1
M84-748	4	11	2	17	18	1	9	11	4	7
M84-833	1	2	5	15	2	4	7	8	8	6
M85-23	28	29	29	27	28	27	29	26	28	9
M85-49	11	18	13	10	11	8	11	10	7	10
M85-52	3	6	4	14	12	2	18	2	12	3
M85-81	21	23	10	10	27	24	22	21	19	17
M85-85	15	20	6	3	17	18	19	17	17	11
M85-173	19	15	17	9	14	23	20	18	9	16
M85-201	17	19	3	24	16	12	11	23	5	13
M85-202	12	7	15	18	8	14	13	5	13	21
M85-260	12	3	19	4	14	22	25	16	2	28
M85-314	19	16	9	12	20	21	8	24	22	4
M85-339	22	17	25	19	19	20	24	20	25	8
M85-396	6	8	1	6	21	16	2	14	10	22
M85-564	23	22	26	16	13	25	15	19	18	22
M85-1112	6	14	8	5	3	10	3	13	11	18
M86-2372	27	27	21	26	24	29	26	28	27	22
OT88-1	23	25	20	29	22	9	10	6	24	27
OT88-2	18	1	12	28	25	3	14	6	21	20

UNIFORM TEST 0, 1989

MATURITY (date)

Strain	Mean 6 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
GLENWOOD (O)	09/19	09/19	09/18	09/16	09/25	09/24		09/21	09/16	
McCALL (OO)	-13.1	-5	-16	-14	-15	-13		-14	-15	
SIBLEY (I)	7.1	12	8	7	F	7		7	9	
M83-744	2.7	6	2	4	0	2		2	3	
M83-766	3.0	4	0	4	F	4		3	6	
M84-293	0.0	1	-1	-2	-1	1		-1	3	
M84-395	2.0	3	0	3	0	2		3	3	
M84-414	1.9	3	0	3	-1	2		3	3	
M84-449	-4.3	-5	-5	-3	-4	-10		-1	-2	
M84-574	3.9	9	5	3	0	1		4	5	
M84-748	1.6	3	3	1	-1	2		0	3	
M84-833	3.4	9	5	3	0	0		4	3	
M85-23	-8.6	-5	-12	-11	-9	-9		-8	-6	
M85-49	1.6	4	2	1	0	1		-1	4	
M85-52	4.0	10	4	4	0	3		3	4	
M85-81	-1.4	-2	0	-1	-4	-2		-1	0	
M85-85	0.9	1	1	1	-2	0		3	2	
M85-173	1.3	2	1	2	0	0		3	1	
M85-201	4.0	7	5	4	1	3		3	5	
M85-202	3.9	6	5	4	1	3		5	3	
M85-260	6.4	12	5	7	F	6		7	8	
M85-314	-1.0	-1	-1	-2	-2	-1		-1	1	
M85-339	-0.7	-1	0	-1	-6	4		-1	0	
M85-396	3.9	5	5	4	1	4		4	4	
M85-564	-0.9	-2	-2	-1	1	-1		-2	1	
M85-1112	4.0	6	2	3	1	3		5	8	
M86-2372	0.1	-1	0	1	-3	0		3	1	
OT88-1	-2.9	-3	-2	-5	-5	-2		-1	-2	
OT88-2	-7.6	-2	-7	-11	-6	-9		-9	-9	
Date Planted	05/20	05/22	05/17	05/23	05/13	05/25		05/23	05/19	
Days to Mature	122.6	120	124	116	135	122		121	120	

*Data Not Included In Mean

UNIFORM TEST 0, 1989

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
GLENWOOD (O)	1.1	1.0	1.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0
McCALL (OO)	1.2	1.0	2.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0
SIBLEY (I)	1.3	1.0	1.7	2.7	1.0	1.0	1.0	1.0	1.0	1.0
M83-744	1.1	1.0	1.0	1.7	1.0	1.0	1.0	1.0	1.0	1.0
M83-766	1.2	1.0	1.0	2.7	1.0	1.0	1.0	1.0	1.0	1.0
M84-293	1.2	1.0	1.0	2.7	1.0	1.0	1.0	1.0	1.0	1.0
M84-395	1.3	1.0	2.0	2.7	1.0	1.0	1.0	1.0	1.0	1.0
M84-414	1.2	1.0	1.3	2.3	1.0	1.0	1.0	1.0	1.0	1.0
M84-449	1.2	1.0	1.0	2.7	1.0	1.0	1.0	1.0	1.0	1.0
M84-574	1.1	1.0	1.0	2.3	1.0	1.0	1.0	1.0	1.0	1.0
M84-748	1.2	1.0	1.7	2.0	1.0	1.0	1.0	1.0	1.0	1.0
M84-833	1.1	1.0	1.0	2.3	1.0	1.0	1.0	1.0	1.0	1.0
M85-23	1.0	1.0	1.0	1.3	1.0	1.0	1.0	1.0	1.0	1.0
M85-49	1.2	1.0	1.0	3.0	1.0	1.0	1.0	1.0	1.0	1.0
M85-52	1.3	1.0	2.0	2.7	1.0	1.0	1.0	1.0	1.0	1.0
M85-81	1.1	1.0	1.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0
M85-85	1.1	1.0	1.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0
M85-173	1.2	1.0	1.3	2.7	1.0	1.0	1.0	1.0	1.0	1.0
M85-201	1.1	1.0	1.0	1.7	1.0	1.0	1.0	1.0	1.0	1.0
M85-202	1.1	1.0	1.3	2.0	1.0	1.0	1.0	1.0	1.0	1.0
M85-260	1.1	1.0	1.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0
M85-314	1.3	1.0	1.3	3.0	1.0	1.0	1.0	1.0	1.0	1.0
M85-339	1.2	1.0	1.0	2.7	1.0	1.0	1.0	1.0	1.0	1.0
M85-396	1.2	1.0	1.3	2.3	1.0	1.0	1.0	1.0	1.0	1.0
M85-564	1.1	1.0	1.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0
M85-1112	1.1	1.0	1.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0
M86-2372	1.2	1.0	1.3	2.7	1.0	1.0	1.0	1.0	1.0	1.0
OT88-1	1.2	1.0	1.7	2.0	1.0	1.0	1.0	1.0	1.0	1.0
OT88-2	1.4	1.0	2.0	3.3	1.0	1.0	1.0	1.0	1.0	1.0

UNIFORM TEST 0, 1989

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
GLENWOOD (0)	23	15	27	37	16	21	19	22	28	23
McCALL (00)	23	15	28	35	18	19	20	23	29	22
SIBLEY (I)	29	24	36	40	19	26	26	30	33	28
M83-744	24	17	25	35	17	22	20	23	28	25
M83-766	25	19	27	37	18	23	21	23	31	26
M84-293	26	17	30	38	19	24	22	27	35	26
M84-395	30	25	36	45	22	25	24	28	33	28
M84-414	27	19	33	42	19	25	23	29	31	24
M84-449	23	15	28	38	16	19	17	23	29	24
M84-574	29	23	36	39	18	24	27	29	33	31
M84-748	26	18	36	41	17	24	17	26	30	24
M84-833	26	23	31	33	18	25	23	26	29	26
M85-23	23	14	27	37	17	21	19	23	26	24
M85-49	22	17	25	32	15	22	17	23	25	22
M85-52	27	23	32	40	18	23	25	26	29	28
M85-81	24	18	26	36	15	22	20	24	29	26
M85-85	23	17	28	34	16	22	19	23	27	24
M85-173	27	20	31	39	19	24	25	25	32	27
M85-201	27	22	33	34	17	25	27	26	32	27
M85-202	29	24	32	44	18	28	23	28	36	28
M85-260	25	21	29	38	16	23	20	23	30	23
M85-314	28	21	34	43	19	23	22	28	33	27
M85-339	27	19	34	42	19	24	23	27	31	26
M85-396	27	22	32	38	16	26	23	27	33	26
M85-564	25	17	26	35	20	23	25	24	31	23
M85-1112	24	20	26	34	20	23	20	23	27	23
M86-2372	24	17	28	34	17	22	20	24	32	25
OT88-1	26	17	32	41	19	23	22	28	28	23
OT88-2	27	20	34	39	18	23	24	30	30	22

UNIFORM TEST 0, 1989

SEED QUALITY (score)

Strain	Mean 8 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
GLENWOOD (O)	1.9		1.3	1.7	3.0	1.8	1.7	2.0	2.0	2.0
McCALL (OO)	2.3		1.3	1.7	3.7	1.8	2.0	2.5	3.0	2.0
SIBLEY (I)	1.8		1.0	1.7	3.3	2.0	1.5	1.5	2.0	1.3
M83-744	1.5		1.3	2.0	1.0	1.3	1.5	1.5	2.0	1.3
M83-766	1.7		1.3	1.3	2.3	1.3	1.5	1.5	2.0	2.0
M84-293	1.9		2.0	1.7	2.0	2.0	1.8	2.0	2.0	1.3
M84-395	1.8		1.3	2.0	1.7	1.0	1.7	2.0	3.0	2.0
M84-414	1.6		1.0	1.3	2.0	1.0	1.7	1.5	2.0	2.0
M84-449	2.1		1.3	1.7	3.7	2.0	2.0	2.0	2.0	1.7
M84-574	1.5		1.0	1.7	1.3	1.2	1.2	2.0	2.0	1.3
M84-748	2.0		1.0	2.0	3.0	2.0	1.6	2.0	3.0	1.3
M84-833	1.9		1.0	1.7	2.7	1.2	1.5	2.0	3.0	2.0
M85-23	2.1		1.0	1.7	3.0	1.5	1.7	2.0	4.0	1.7
M85-49	2.3		1.7	1.7	2.7	1.7	1.7	2.5	4.0	2.7
M85-52	2.1		1.3	1.7	3.3	1.0	1.8	2.0	4.0	1.7
M85-81	2.0		1.3	1.3	3.7	1.5	1.3	2.0	3.0	2.0
M85-85	2.0		1.3	1.3	3.0	1.8	1.5	2.0	3.0	2.0
M85-173	2.1		1.7	1.3	3.0	2.0	1.8	2.0	3.0	2.0
M85-201	2.1		2.3	2.7	2.3	2.0	1.5	2.0	2.0	2.3
M85-202	2.4		3.5	3.0	2.3	2.1	1.8	2.0	3.0	1.7
M85-260	1.7		1.0	1.3	2.3	1.2	1.5	2.0	3.0	1.3
M85-314	2.1		1.3	1.3	3.7	2.0	1.8	2.0	3.0	1.7
M85-339	1.7		1.3	1.7	2.3	1.2	1.3	2.0	2.0	1.7
M85-396	1.9		1.0	1.3	2.0	2.0	2.0	2.0	2.0	2.7
M85-564	1.6		1.0	1.3	2.0	1.5	1.5	2.5	2.0	1.3
M85-1112	2.2		2.5	2.7	2.0	2.0	1.7	2.5	2.0	2.0
M86-2372	1.8		1.3	1.3	1.7	1.2	1.7	2.5	3.0	1.7
OT88-1	2.4		1.3	3.0	3.3	2.0	2.2	2.5	3.0	2.0
OT88-2	2.0		1.0	1.7	3.7	1.2	1.8	2.5	2.0	1.7

UNIFORM TEST 0, 1989

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
GLENWOOD (O)	17.3	17.0	18.6	16.4	14.6	16.1	18.3	17.5	18.6	18.3
McCALL (OO)	15.3	17.5	15.3	13.6	12.8	14.4	15.3	16.3	14.9	17.9
SIBLEY (I)	19.4	20.4	20.0	19.6	16.4	19.7	20.2	18.5	20.6	19.5
M83-744	18.1	18.7	17.6	18.2	16.6	16.9	18.7	19.0	18.6	18.6
M83-766	17.3	17.4	17.5	17.0	15.2	16.0	18.2	17.5	18.0	19.2
M84-293	15.6	16.3	16.2	14.0	13.8	13.6	16.0	15.6	16.9	18.2
M84-395	16.6	16.3	16.5	16.8	15.3	15.5	16.4	16.7	17.3	18.3
M84-414	16.9	15.9	16.5	16.8	14.8	15.8	18.6	17.5	17.2	18.7
M84-449	15.3	14.8	16.1	14.7	12.8	14.2	15.1	17.1	15.8	17.3
M84-574	17.0	18.1	16.7	16.4	14.0	15.8	18.4	17.1	17.6	19.1
M84-748	16.8	17.5	17.9	16.3	14.6	15.5	16.4	17.1	17.4	18.2
M84-833	15.6	15.3	15.9	16.2	14.7	14.0	15.9	14.1	16.1	18.2
M85-23	14.3	14.9	15.0	11.5	12.1	13.7	14.6	15.5	15.0	16.0
M85-49	16.3	16.2	15.3	15.9	14.7	15.7	16.3	17.2	16.9	18.9
M85-52	16.7	17.8	16.0	16.6	14.9	16.1	16.3	17.0	17.4	18.4
M85-81	14.3	13.9	14.7	12.7	14.0	13.0	14.8	14.2	15.5	15.8
M85-85	15.5	15.2	15.3	15.1	13.5	14.3	16.0	15.8	15.9	18.2
M85-173	15.7	16.3	16.2	15.0	13.5	14.1	16.1	15.6	16.3	18.1
M85-201	16.2	15.6	17.2	15.8	15.5	15.6	16.1	16.0	16.9	16.9
M85-202	15.9	16.2	15.7	16.2	15.2	15.4	16.5	15.2	15.9	16.5
M85-260	16.4	17.9	16.8	16.2	14.9	15.2	16.4	16.1	17.1	17.1
M85-314	15.7	16.4	16.0	15.5	13.8	13.5	16.7	15.5	16.6	17.3
M85-339	15.6	15.6	16.9	15.0	12.4	14.2	16.2	16.8	16.0	17.0
M85-396	16.2	16.8	16.2	17.4	13.4	15.5	16.7	14.3	17.8	17.7
M85-564	16.5	16.7	15.9	16.5	15.0	15.1	18.2	17.6	16.4	17.0
M85-1112	18.0	16.8	18.7	18.3	16.4	16.4	19.2	19.0	18.8	18.7
M86-2372	10.6	12.7	9.5	9.2	9.5	9.7	11.8	11.0	10.5	11.8
OT88-1	21.5	21.9	20.1	18.4	16.7	22.3	22.6	25.0	22.0	24.1
OT88-2	16.6	18.9	15.8	13.5	14.8	16.6	16.5	16.2	18.3	18.6

UNIFORM TEST 0, 1989

PROTEIN (%)

Strain	Mean 3 Tests	Rosemount MN	Casselton ND	Woodstock Ont.
GLENWOOD (O)	41.3	39.9	40.3	43.6
McCALL (OO)	41.1	40.7	41.1	41.6
SIBLEY (I)	41.2	39.5	40.7	43.3
M83-744	42.0	40.3	41.0	44.6
M83-766	40.4	38.6	38.7	44.0
M84-293	39.8	38.7	37.6	43.0
M84-395	39.1	37.4	37.8	42.0
M84-414	40.5	38.9	39.4	43.2
M84-449	41.3	39.7	41.2	43.1
M84-574	39.7	37.4	39.9	41.9
M84-748	42.0	40.1	40.8	45.0
M84-833	41.1	39.7	39.5	44.1
M85-23	41.0	39.9	40.2	43.0
M85-49	39.4	38.1	37.8	42.4
M85-52	33.9	37.8	38.9	25.0
M85-81	40.7	38.0	41.6	42.5
M85-85	40.4	38.8	39.1	43.3
M85-173	41.2	39.1	40.0	44.6
M85-201	41.5	39.7	40.1	44.7
M85-202	41.3	39.5	39.2	45.1
M85-260	40.8	38.9	39.2	44.4
M85-314	39.9	38.8	38.7	42.2
M85-339	41.5	40.4	39.3	44.8
M85-396	41.5	39.4	41.9	43.1
M85-564	42.9	40.4	42.8	45.5
M85-1112	39.7	38.9	38.1	42.1
M86-2372	42.5	39.8	42.0	45.7
OT88-1	41.5	40.5	40.6	43.4
OT88-2	40.8	39.9	40.7	41.8

UNIFORM TEST 0, 1989

OIL (%)

Strain	Mean 3 Tests	Rosemount MN	Casselton ND	Woodstock Ont.
GLENWOOD (O)	19.4	20.0	19.0	19.3
McCALL (OO)	19.2	19.2	17.9	20.4
SIBLEY (I)	19.8	20.8	19.2	19.4
M83-744	19.2	19.4	19.4	18.8
M83-766	20.5	21.2	20.5	19.7
M84-293	20.0	19.9	20.5	19.7
M84-395	20.6	21.0	20.0	20.8
M84-414	20.5	20.8	20.3	20.4
M84-449	19.5	20.0	18.5	20.0
M84-574	20.7	21.5	19.8	20.7
M84-748	19.9	20.5	19.5	19.6
M84-833	19.1	19.5	19.6	18.3
M85-23	19.0	18.4	19.1	19.6
M85-49	20.6	21.0	20.6	20.3
M85-52	19.9	21.1	19.6	19.0
M85-81	19.1	19.7	18.1	19.6
M85-85	20.4	21.0	20.3	20.0
M85-173	19.0	19.7	18.7	18.7
M85-201	19.6	20.4	19.8	18.7
M85-202	19.6	20.1	20.0	18.8
M85-260	19.6	20.6	19.6	18.5
M85-314	20.2	20.3	20.4	20.0
M85-339	20.3	20.5	20.6	19.7
M85-396	19.8	20.9	18.9	19.5
M85-564	19.2	20.0	18.6	19.1
M85-1112	20.8	21.3	21.0	20.2
M86-2372	17.4	18.3	17.3	16.5
OT88-1	19.3	18.7	19.3	20.0
OT88-2	19.8	19.8	19.2	20.4

UNIFORM TEST I, 1989

Strain	Parentage	Previous* Testing	Generation Composited	Unique Traits
ABSR 101BC	Williams 82 and PRX 54-59 x BSR 101	-	BC4 F3	Rps1-k,Rps6
BSR 101	L69U40-16-4 x A76-304020	1987	F4	
Glenwood (0)	Evans x Peterson 85	-	F5	
Sibley (I)	M68-256 x Hodgson	6	F5	
Sturdy (L)	M70-127 x Century	2	F5	
A87-195024	A81-157024 x CN 290	SCN I	F5	SCN 3
A87-195034	BSR 101 x CN 210	SCN I	F5	SCN 3,Rps1
A87-198005	A80-244003 x Harper	PTI	F5	
E86237	Prosoy PS104 x HW2028	PTI	F3	
LN85-874(Bell)	Fayette x LN80-10398	PTII	F5	SCN 3,4
M82-106	M73-105 x Vickery	2	F5	
M82-559	Vickery x Century	2	F5	
M83-108	Hodgson 78 x Pella	1	F4	
M83-830	Evans x Century	1	F5	
M83-899	M74-270 x A78-123018	1	F5	
M84-916	A79-136012 x Dawson	PTI	F5	Rps1
M84-1034	M75-2 x K1062	PTI	F5	Rps1
M85-610	Fayette x McCall	SCN I	F5	SCN 3
ORC 8601	M73-62 x FH31-3	PTIIB	F5	

* Number of years in test or name of 1988 test.

UNIFORM TEST I, 1989

DESCRIPTIVE DATA

Strain	Descriptive Code	Chlorosis Score Ames	Chlorosis Score Lamber-ton	Emerg. Score Ames	Shattering Score Manhattan
ABSR 101BC	PGTDIb	3.0	2.0	3	2
BSR 101	PGTSIbI	3.1	2.0	2	2
GLENWOOD (O)	PGBDIbI	3.6	2.5	4	1
SIBLEY (I)	WGBSYI	4.5	4.0	2	3
STURDY (L)	PGBDIbI	2.8	2.5	5	1
A87-195024	PGBSYI	3.2	2.5	4	2
A87-195034	PGBSYI	2.2	2.5	4	2
A87-198005	PTBSBlI	4.9	2.5	3	2
E86237	P+WGBDHetI	4.1	3.0	3	1
LN85-874 (SCN)	PTTSBlI	2.6	3.0	4	3
M82-106	WGBDBfI	3.0	3.0	2	1
M82-559	PGBDYI	3.9	4.0	2	1
M83-108	PGTDIbI	3.5	3.5	5	1
M83-830	WTBDBlI	3.1	3.0	2	1
M83-899	PGBDBfI	4.0	4.5	4	2
M84-916	WGBDBfI	4.4	3.0	4	1
M84-1034	WGTDBfI	4.2	2.5	1	1
M85-610	P+WTTSYI	3.8	2.5	2	2
ORC 8601	WGBDYI	3.8	2.5	1	2

UNIFORM TEST I, 1989

DISEASE DATA

Strain	BTS Ames a Score	BSR-Ames Plant n %	BSR-Ames Stem n %	PR Ames Race 4 Reaction	PR Urbana Race 1
ABSR 101BC	2	100.0	29.0	R	R
BSR 101	3	90.0	46.8	S	R
GLENWOOD (O)	3	100.0	73.8	S	R
SIBLEY (I)	2	100.0	89.6	S	R
STURDY (L)	3	100.0	90.4	S	R
A87-195024	2	100.0	96.8	S	M
A87-195034	3	100.0	35.7	S	R
A87-198005	2	100.0	86.8	S	S
E86237	3	100.0	92.9	S	R
LN85-874 (SCN)	3	100.0	81.2	H	S
M82-106	2	100.0	92.7	S	R
M82-559	3	100.0	93.5	S	R
M83-108	3	100.0	95.9	S	R
M83-830	2	100.0	95.0	S	R
M83-899	3	100.0	93.3	S	R
M84-916	3	100.0	92.2	S	R
M84-1034	3	100.0	98.9	R	R
M85-610	4	100.0	66.0	S	M
ORC 8601	3	100.0	96.0	S	R

UNIFORM TEST I, 1989

REGIONAL SUMMARY

No. of Tests / Strain	Yield 16 bu/a	Rank 16 No.	Maturity 12 Date	Lodging 16 Score	Plant Height 16 In.	Seed Quality 14 Score	Seed Size 15 g/100	Composition Protein 3 %	Composition Oil 3 %
ABSR 101BC	42.6	10	7.1	1.4	33	2.0	16.5	38.8	20.8
BSR 101	42.8	8	6.2	1.3	33	1.9	16.3	38.6	20.9
GLENWOOD (O)	35.7	19	-7.4	1.1	27	1.9	15.7	40.6	20.3
SIBLEY (I)	42.7	9	09/19*	1.5	33	1.5	16.9	39.7	20.9
STURDY (L)	46.4	2	5.3	1.5	34	1.7	17.8	39.5	20.7
A87-195024	39.0	17	6.4	1.4	32	1.8	16.5	39.8	20.6
A87-195034	37.8	18	9.0	1.5	34	1.9	16.6	38.4	20.6
A87-198005	42.5	11	0.0	1.3	31	1.6	16.5	40.7	20.8
E86237	45.2	5	2.0	1.4	35	1.6	16.0	39.6	20.9
LN85-874 (SCN)	42.4	13	4.4	1.6	30	1.7	18.2	41.0	20.7
M82-106	42.1	14	1.3	1.2	31	2.0	15.0	41.7	20.9
M82-559	41.6	15	-1.5	1.1	28	1.6	16.8	41.4	19.8
M83-108	44.9	6	4.0	1.2	34	1.8	17.6	40.2	21.6
M83-830	42.5	11	1.1	1.1	28	1.9	16.5	39.4	20.7
M83-899	43.4	7	3.5	1.6	38	2.0	15.2	38.9	21.0
M84-916	46.9	1	1.3	1.7	37	1.8	17.2	39.0	21.5
M84-1034	45.3	4	3.6	1.3	30	1.5	17.2	39.9	21.4
M85-610	40.4	16	0.3	1.8	35	1.7	13.8	41.3	20.1
ORC 8601	46.2	3	1.4	1.5	35	1.3	16.2	39.3	20.9

*125.6 Days after planting

1988-1989 2-YEAR MEAN

No. of Tests / Strain	Yield 31 bu/a	Rank 31 No.	Maturity 25 Date	Lodging 30 Score	Plant Height 31 In.	Seed Quality 29 Score	Seed Size 30 g/100	Composition Protein 8 %	Composition Oil 8 %
Sibley (I)	39.4	6	09/15*	1.6	32	1.9	16.9	39.3	22.0
Sturdy (I)	43.4	1	5.0	1.5	33	1.8	17.7	39.0	21.4
M82-106	39.7	4	1.4	1.2	31	2.2	15.3	41.2	21.6
M82-559	38.5	7	-0.7	1.2	28	1.9	16.9	41.2	20.6
M83-108	42.3	3	4.3	1.2	33	2.1	18.1	39.6	21.9
M83-830	39.6	5	2.3	1.1	28	2.2	16.9	39.8	21.2
M83-899	42.5	2	4.2	1.6	37	2.1	15.5	39.0	21.6

*122.5 Days after planting.

UNIFORM TEST I, 1989

YIELD (bu/a)

Strain	Mean 16 Tests	Corwith IA	Nashua IA	Royal IA	Lafayette IN	Britton MI	Saginaw MI
ABSR 101BC	42.6	43.2	27.0	54.3	29.7	62.1	39.9
BSR 101	42.8	46.4	31.0	52.3	35.4	62.0	24.1
GLENWOOD (O)	35.7	32.4	29.0	50.5	17.7	38.0	33.9
SIBLEY (I)	42.7	31.9	25.3	56.6	17.6	56.2	49.0
STURDY (L)	46.4	38.8	26.4	58.0	31.3	61.8	57.7
A87-195024	39.0	39.6	24.0	49.7	27.2	43.9	34.0
A87-195034	37.8	41.3	27.1	47.4	29.9	52.4	24.6
A87-198005	42.5	41.2	25.2	55.4	27.4	56.1	49.9
E86237	45.2	34.6	27.3	55.2	33.3	62.7	47.7
LN85-874 (SCN)	42.4	33.2	30.8	52.9	35.2	59.2	47.8
M82-106	42.1	39.7	22.3	55.1	30.5	56.1	36.3
M82-559	41.6	30.7	26.4	54.7	30.3	53.2	35.6
M83-108	44.9	41.8	26.3	55.8	30.8	49.3	52.5
M83-830	42.5	33.0	24.1	60.1	30.8	43.2	32.2
M83-899	43.4	43.2	20.9	60.5	37.9	37.3	37.1
M84-916	46.9	40.7	24.4	61.8	33.1	61.3	50.9
M84-1034	45.3	40.7	30.4	56.1	30.9	64.8	42.4
M85-610	40.4	42.3	19.7	50.3	28.3	54.2	47.0
ORC 8601	46.2	43.2	22.8	58.7	32.0	63.7	54.1
C.V. (%)		16.3	10.0	4.5	17.3	19.9	36.3
L.S.D. (5%)		10.3	4.3	4.0	8.5	15.4	21.6
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, 1989

YIELD (bu/a)

Lamber-ton MN	Waseca MN	Concord NE	Mead NE	Inwood Ont.	London Ont.	State College PA	Brook-ings SD	Wilmot SD	Arling-ton WI
40.4	60.2	25.2	56.3	34.8	62.4	31.1	33.3	47.6	33.9
44.2	61.8	22.1	59.0	37.2	63.2	31.6	34.7	42.0	38.3
26.1	48.4	22.1	46.7	35.6	51.1	19.9	42.7	47.8	30.0
38.5	57.3	25.1	52.2	43.8	63.5	30.8	37.9	52.7	44.2
41.9	61.8	23.9	60.5	42.4	66.5	29.5	42.1	55.5	44.2
38.8	54.1	19.7	53.1	40.7	52.0	27.7	36.0	48.9	35.1
33.1	53.4	18.0	54.3	35.6	56.0	30.4	24.3	43.0	33.5
37.0	47.4	19.4	56.0	40.5	59.3	31.3	45.5	51.5	36.1
39.2	56.3	31.5	55.2	45.0	65.9	30.2	42.4	55.1	41.9
44.1	53.9	19.1	53.1	40.2	62.2	29.8	33.0	53.0	31.4
40.3	51.0	27.3	55.2	41.0	54.8	30.2	38.6	54.0	40.9
34.7	60.6	26.8	55.6	40.6	55.8	27.8	45.7	52.4	34.7
39.9	64.7	29.5	61.9	35.8	66.3	31.1	42.9	51.0	38.2
38.3	55.5	27.1	58.0	43.4	58.8	29.6	46.1	56.6	43.6
41.5	62.4	23.9	54.8	47.1	62.2	34.4	35.8	54.2	41.2
45.5	71.8	26.9	51.4	44.3	62.1	29.1	49.1	58.1	40.1
40.9	66.3	24.9	54.5	42.3	65.0	28.6	45.1	51.4	40.8
33.6	54.9	25.4	47.0	41.8	56.1	23.1	37.4	47.7	37.3
39.6	58.7	25.7	54.1	45.4	65.4	31.2	45.5	54.9	43.6
9.6	17.2	14.2	9.0	7.7	6.1	9.1	8.2	8.4	10.0
6.1	NS	5.7	8.2	5.3	5.2	4.4	5.4	7.1	6.3
10	10	30	30	24	15	30	30	30	30
10	10	4	4	4	4	4	4	4	4
3	3	3	3	3	4	3	3	3	3

UNIFORM TEST I, 1989

YIELD RANK

Strain	Yield Rank	Corwith IA	Nashua IA	Royal IA	Lafayette IN	Britton MI	Saginaw MI
ABSR 101BC	10	2	7	13	14	4	11
BSR 101	8	1	1	15	2	5	19
GLENWOOD (O)	19	17	4	16	18	18	16
SIBLEY (I)	9	18	11	6	19	9	6
STURDY (L)	2	13	8	5	7	6	1
A87-195024	17	12	15	18	17	16	15
A87-195034	18	7	6	19	13	14	18
A87-198005	11	8	12	9	16	10	5
E86237	5	14	5	10	4	3	8
LN85-874 (SCN)	13	15	2	14	3	8	7
M82-106	14	11	17	11	11	11	13
M82-559	15	19	8	12	12	13	14
M83-108	6	6	10	8	9	15	3
M83-830	11	16	14	3	9	17	17
M83-899	7	2	18	2	1	19	12
M84-916	1	9	13	1	5	7	4
M84-1034	4	9	3	7	8	1	10
M85-610	16	5	19	17	15	12	9
ORC 8601	3	2	16	4	6	2	2

MATURITY (date)

Strain	Mean 12 Tests					
ABSR 101BC	7.1	15		9	5	10
BSR 101	6.2	14		5	5	7
GLENWOOD (O)	-7.4	-3		-4	-10	-9
SIBLEY (I)	09/19	09/28		09/06	09/13	10/05
STURDY (L)	5.3	8		4	4	6
A87-195024	6.4	12		10	4	10
A87-195034	9.0	19		7	5	12
A87-198005	0.0	5		4	-2	-4
E86237	2.0	6		2	1	4
LN85-874 (SCN)	4.4	8		5	4	7
M82-106	1.3	6		1	0	1
M82-559	-1.5	-1		1	-4	1
M83-108	4.0	7		6	4	3
M83-830	1.1	4		2	0	1
M83-899	3.5	11		8	5	6
M84-916	1.3	8		1	-1	-1
M84-1034	3.6	7		5	1	4
M85-610	0.3	3		-1	-2	0
ORC 8601	1.4	5		3	1	-1
Date Planted	05/17	05/10		05/16	05/10	05/23
Days to Mature	125.6	141		113	126	135

UNIFORM TEST I, 1989

YIELD RANK

Lamber-ton MN	Waseca MN	Concord NE	Mead NE	Inwood Ont.	London Ont.	State College PA	Brook-ings SD	Wilmot SD	Arling-ton WI
7	8	9	5	19	8	5	17	17	16
2	5	14	3	15	7	2	16	19	10
19	18	14	19	17	19	19	8	15	19
13	10	10	16	5	6	7	12	9	1
4	5	13	2	7	1	13	10	3	1
12	14	16	14	11	18	17	14	14	14
18	16	19	12	17	15	8	19	18	17
15	19	17	6	13	12	3	4	11	13
11	11	1	8	3	3	9	9	4	5
3	15	18	14	14	9	11	18	8	18
8	17	3	8	10	17	9	11	7	7
16	7	6	7	12	16	16	3	10	15
9	3	2	1	16	2	5	7	13	11
14	12	4	4	6	13	12	2	2	3
5	4	12	10	1	9	1	15	6	6
1	1	5	17	4	11	14	1	1	9
6	2	11	11	8	5	15	6	12	8
17	13	8	18	9	14	18	13	16	12
10	9	7	13	2	4	4	4	5	3

MATURITY (date)

7	5	7	7	4	2	8	6
7	5	6	8	4	2	6	5
-10	-6	-5	-10	-8	-8	-8	-8
09/15	09/19	09/13	09/18	09/18	09/26	09/22	09/25
5	4	7	8	3	5	5	4
6	5	6	9	3	0	8	4
8	8	6	13	8	6	8	8
3	1	-1	-4	-2	-3	2	1
2	0	-2	4	1	1	3	2
4	4	5	4	2	2	5	3
0	0	2	2	0	1	2	1
-3	-2	-2	-2	-2	-3	0	-1
4	2	5	3	1	5	5	3
3	0	3	1	-2	-4	2	3
4	4	5	4	2	3	4	-14
4	3	-1	0	-2	1	1	2
4	2	3	7	3	4	2	1
2	3	-1	-1	-1	-3	2	3
2	-5	6	1	1	2	1	1
05/09	05/10	05/19	05/24	05/17	06/08	05/11	05/19
129	132	117	117	124	110	134	129

UNIFORM TEST I, 1989

LODGING (score)

Strain	Mean 16 Tests	Corwith IA	Nashua IA	Royal IA	Lafayette IN	Britton MI	Saginaw MI
ABSR 101BC	1.4	1.1	1.2	2.3	1.0	1.3	1.3
BSR 101	1.3	1.1	1.3	1.9	1.0	1.0	1.0
GLENWOOD (O)	1.1	1.0	1.3	1.3	1.0	1.0	1.0
SIBLEY (I)	1.5	1.2	1.5	2.5	1.0	1.3	1.0
STURDY (L)	1.5	1.0	1.4	1.9	1.0	1.3	1.8
A87-195024	1.4	1.2	1.4	2.1	1.0	1.0	1.0
A87-195034	1.5	1.1	1.3	2.5	1.0	1.0	1.3
A87-198005	1.3	1.0	1.1	1.7	1.0	1.0	1.5
E86237	1.4	1.1	1.5	1.9	1.0	1.0	1.3
LN85-874 (SCN)	1.6	1.1	1.2	2.5	1.0	1.5	2.3
M82-106	1.2	1.1	1.2	2.2	1.0	1.0	1.0
M82-559	1.1	1.0	1.1	1.2	1.0	1.0	1.0
M83-108	1.2	1.0	1.1	1.6	1.0	1.0	1.0
M83-830	1.1	1.0	1.1	1.3	1.0	1.0	1.0
M83-899	1.6	1.9	1.4	2.9	1.2	1.0	1.5
M84-916	1.7	1.5	1.9	2.9	1.0	1.3	1.8
M84-1034	1.3	1.1	1.1	1.4	1.0	1.3	1.0
M85-610	1.8	1.4	1.8	3.1	1.2	2.0	1.8
ORC 8601	1.5	1.2	1.6	2.3	1.2	1.0	1.0

PLANT HEIGHT (inches)

Strain	Mean 16 Tests						
ABSR 101BC	33	37	37	40	26	37	28
BSR 101	33	39	36	41	27	35	27
GLENWOOD (O)	27	28	32	34	19	23	23
SIBLEY (I)	33	36	37	42	24	34	29
STURDY (L)	34	40	37	43	27	33	34
A87-195024	32	39	34	42	27	29	25
A87-195034	34	40	39	43	28	31	26
A87-198005	31	35	33	38	25	30	29
E86237	35	38	39	44	32	35	33
LN85-874 (SCN)	30	33	34	38	27	32	28
M82-106	31	36	33	39	25	33	25
M82-559	28	30	30	36	24	28	21
M83-108	34	39	36	42	29	33	30
M83-830	28	30	31	38	23	27	20
M83-899	38	47	42	45	33	31	31
M84-916	37	41	40	44	33	36	33
M84-1034	30	32	35	37	25	31	25
M85-610	35	38	39	43	33	33	30
ORC 8601	35	37	38	44	29	34	34

UNIFORM TEST I, 1989

LODGING (score)

Lamber-ton MN	Waseca MN	Concord NE	Mead NE	Inwood Ont.	London Ont.	State College PA	Brook-ings SD	Wilmot SD	Arling-ton WI
1.0	3.0	1.0	2.2	1.0	1.0	1.0	1.0	1.0	2.5
1.0	3.0	1.0	1.7	1.0	1.0	1.0	1.0	1.0	2.3
1.0	1.7	1.0	1.3	1.0	1.0	1.0	1.0	1.0	1.2
1.3	3.3	1.0	2.0	1.0	1.1	1.0	1.0	1.0	2.3
1.0	3.0	1.0	1.8	1.0	1.0	1.0	1.0	1.0	3.0
1.0	3.3	1.0	1.8	1.0	1.3	1.0	1.0	1.0	3.0
1.0	3.0	1.0	2.2	1.0	2.0	1.0	1.0	1.0	2.5
1.0	3.0	1.0	1.3	1.0	1.0	1.0	1.0	1.0	2.5
1.0	2.7	1.0	1.5	1.0	1.0	1.0	1.0	1.0	2.7
1.0	3.7	1.0	1.7	1.0	1.0	1.0	1.0	1.0	3.8
1.0	2.3	1.0	1.5	1.0	1.1	1.0	1.0	1.0	1.2
1.0	1.7	1.0	1.2	1.0	1.0	1.0	1.0	1.0	1.3
1.0	2.7	1.0	1.5	1.0	1.0	1.0	1.0	1.0	1.7
1.0	2.0	1.0	1.2	1.0	1.0	1.0	1.0	1.0	1.2
1.0	3.7	1.0	2.2	1.0	1.3	1.0	1.0	1.0	3.0
1.3	3.0	1.0	3.0	1.0	1.5	1.0	1.0	1.0	3.5
1.0	2.7	1.0	1.5	1.0	1.0	1.0	1.0	1.0	2.3
1.0	3.3	1.0	2.5	1.0	1.8	1.0	1.0	1.0	3.5
1.0	3.3	1.0	2.0	1.0	1.3	1.0	1.0	1.0	2.7

PLANT HEIGHT (inches)

30	42	27	35	26	35	26	41	31	32
31	40	28	35	27	35	27	39	32	32
22	32	25	31	24	24	19	38	28	26
31	40	31	34	28	35	27	40	33	33
30	40	28	35	31	34	27	43	34	32
31	39	23	37	28	34	25	39	34	32
32	42	28	39	29	37	27	43	35	32
29	38	23	32	24	33	26	37	29	31
30	43	30	35	30	37	30	42	34	32
29	38	25	30	25	33	21	34	29	31
28	38	27	35	27	32	24	37	29	30
26	35	24	31	24	26	21	38	28	25
33	41	28	37	26	36	27	42	33	32
26	36	24	28	23	26	23	37	31	28
37	48	32	43	33	37	35	45	38	37
35	45	31	37	32	38	29	44	35	35
27	37	25	31	27	31	23	38	29	30
34	42	33	37	28	35	28	45	33	29
35	40	28	33	31	35	29	47	34	34

UNIFORM TEST I, 1989

SEED QUALITY (score)

Strain	Mean 14 Tests	Corwith IA	Nashua IA	Royal IA	Lafayette IN	Britton MI	Saginaw MI
ABSR 101BC	2.0	2.5	2.5	2.0	2.5		
BSR 101	1.9	2.0	2.5	2.0	2.0		
GLENWOOD (O)	1.9	2.0	2.5	1.5	3.0		
SIBLEY (I)	1.5	1.5	1.5	1.0	2.0		
STURDY (L)	1.7	1.5	1.5	1.5	1.5		
A87-195024	1.8	1.5	1.5	1.5	2.0		
A87-195034	1.9	2.0	1.5	2.0	1.5		
A87-198005	1.6	1.0	1.5	1.0	1.5		
E86237	1.6	1.0	2.0	1.5	2.0		
LN85-874 (SCN)	1.7	1.5	1.0	1.5	1.5		
M82-106	2.0	2.0	2.0	2.5	2.0		
M82-559	1.6	1.5	1.5	1.0	1.5		
M83-108	1.8	1.0	2.0	1.5	2.5		
M83-830	1.9	2.5	1.5	1.0	2.0		
M83-899	2.0	1.5	1.5	1.5	2.0		
M84-916	1.8	2.0	1.0	1.5	2.0		
M84-1034	1.5	1.5	1.0	1.0	1.0		
M85-610	1.7	2.0	1.5	1.0	1.5		
ORC 8601	1.3	1.5	2.0	1.0	1.5		

SEED SIZE (g/100)

Strain	Mean 15 Tests						
ABSR 101BC	16.5	15.7	13.7	17.1	16.5	16.8	15.4
BSR 101	16.3	15.3	13.3	16.6	16.0	16.3	16.0
GLENWOOD (O)	15.7	14.4	13.1	17.1	16.0	15.5	16.6
SIBLEY (I)	16.9	14.1	12.6	18.4	15.6	18.2	18.6
STURDY (L)	17.8	15.1	13.6	18.1	16.0	18.3	19.9
A87-195024	16.5	16.1	13.6	17.0	16.8	16.2	16.6
A87-195034	16.6	16.7	15.5	16.8	15.1	17.3	15.8
A87-198005	16.5	15.8	12.4	16.8	15.4	16.9	17.7
E86237	16.0	13.6	12.7	16.5	16.0	16.4	17.6
LN85-874 (SCN)	18.2	15.7	15.5	18.6	17.3	18.6	17.9
M82-106	15.0	13.1	11.6	15.6	15.0	15.1	15.9
M82-559	16.8	14.6	13.6	18.5	17.0	17.2	18.6
M83-108	17.6	15.5	13.4	17.3	18.3	17.8	19.2
M83-830	16.5	14.2	12.3	17.5	16.4	16.1	16.5
M83-899	15.2	14.5	11.2	15.7	16.0	16.0	16.1
M84-916	17.2	16.2	13.3	18.5	16.8	18.0	18.7
M84-1034	17.2	16.0	14.0	17.8	16.5	17.5	18.6
M85-610	13.8	12.6	11.1	14.2	13.9	13.3	14.5
ORC 8601	16.2	16.5	13.1	16.5	15.3	16.0	18.2

UNIFORM TEST I, 1989

SEED QUALITY (score)

Lamber-ton MN	Waseca MN	Concord NE	Mead NE	Inwood Ont.	London Ont.	State College PA	Brook-ings SD	Wilmot SD	Arling-ton WI
1.7	1.7	2.3	3.0	2.1	1.0	2.0	1.0	1.0	2.3
1.7	1.3	2.7	2.7	2.0	1.0	2.0	1.0	2.0	2.3
2.0	2.0	1.8	2.0	1.1	1.0	2.0	1.0	2.0	2.0
1.3	1.3	1.7	2.0	1.1	1.0	2.0	1.0	2.0	1.0
1.7	1.3	2.0	2.7	1.0	1.0	1.5	2.0	2.0	2.3
1.7	1.3	2.7	2.0	1.0	1.5	1.0	3.0	2.0	2.7
2.0	1.3	2.7	2.0	1.0	1.0	1.5	3.0	2.0	2.7
1.3	1.3	2.0	2.0	1.0	1.5	1.5	2.0	2.0	2.3
1.3	1.3	1.8	2.0	1.0	1.5	1.5	2.0	2.0	2.0
1.3	1.3	2.7	2.3	1.0	1.0	2.0	2.0	2.0	2.7
2.0	1.7	2.0	2.7	1.0	1.0	2.0	3.0	2.0	1.7
1.3	1.7	1.7	2.0	1.3	1.0	1.5	3.0	2.0	1.3
1.3	1.0	2.0	3.0	1.0	1.0	2.0	2.0	2.0	3.0
1.7	1.3	2.0	2.0	1.0	2.0	2.0	3.0	2.0	2.0
1.7	1.3	2.0	2.0	1.0	2.0	2.0	3.0	3.0	3.0
1.3	1.3	1.3	2.0	1.0	1.5	1.5	3.0	3.0	2.3
1.3	1.3	2.0	2.3	1.0	1.0	1.5	2.0	2.0	2.0
1.3	1.3	1.8	2.3	1.0	1.0	2.0	3.0	3.0	1.7
1.3	1.3	1.8	2.3	1.0	1.0	2.0	2.0	2.0	2.0

SEED SIZE (g/100)

17.3	17.8	16.7	18.3	17.8	18.7	14.0	15.9	15.2
17.8	18.2	18.2	18.2	18.5	16.5	12.7	16.4	15.0
14.8	16.2	13.9	18.1	15.7	14.6	15.4	17.9	16.0
17.6	17.3	15.0	20.3	18.2	16.8	16.5	18.1	15.9
17.9	19.1	17.5	19.6	19.4	18.9	16.0	18.9	18.1
16.0	19.0	17.1	17.7	18.8	15.8	15.3	17.4	14.7
17.6	17.6	18.0	17.0	20.7	16.9	13.9	15.0	15.8
17.0	18.0	15.9	18.6	17.5	15.4	16.6	17.5	15.4
15.2	16.7	16.3	18.4	16.9	16.7	14.4	17.0	15.7
18.2	19.9	18.3	20.7	21.0	18.3	16.8	19.5	17.0
14.9	15.5	14.8	16.8	16.0	16.8	13.6	16.4	14.1
14.9	17.7	15.3	19.7	16.9	17.9	16.0	17.3	16.9
18.3	17.9	18.4	19.9	18.8	17.7	15.5	19.1	16.6
16.4	17.1	17.1	19.9	16.6	16.5	15.9	19.1	15.7
14.8	16.4	14.8	15.8	16.7	15.8	13.0	16.5	14.8
17.5	19.1	16.5	19.9	17.9	16.2	15.0	18.4	16.2
16.0	18.1	17.2	19.0	18.8	17.3	16.4	18.2	16.5
14.0	15.1	14.7	15.2	14.9	12.1	13.3	15.7	13.0
15.4	17.1	13.5	19.2	16.8	16.2	15.3	17.9	15.8

UNIFORM TEST I, 1989

PROTEIN (%)

Strain	Mean 3 Tests	Royal IA	Lamberton MN	London Ont.
ABSR 101BC	38.8	37.7	38.2	40.6
BSR 101	38.6	37.3	37.3	41.1
GLENWOOD (O)	40.6	39.6	39.5	42.7
SIBLEY (I)	39.7	38.3	38.8	41.9
STURDY (L)	39.5	38.3	38.2	41.9
A87-195024	39.8	38.4	39.3	41.8
A87-195034	38.4	37.3	37.2	40.8
A87-198005	40.7	39.7	39.4	42.9
E86237	39.6	38.4	38.5	41.9
LN85-874 (SCN)	41.0	40.2	39.8	43.1
M82-106	41.7	40.4	39.8	45.0
M82-559	41.4	40.6	40.5	43.2
M83-108	40.2	40.2	38.6	41.8
M83-830	39.4	37.8	38.5	42.0
M83-899	38.9	37.5	37.9	41.4
M84-916	39.0	37.7	38.1	41.2
M84-1034	39.9	38.4	39.3	42.0
M65-610	41.3	40.4	40.3	43.3
ORC 8601	39.3	37.9	37.8	42.2

OIL (%)

Strain	Mean 3 Tests			
ABSR 101BC	20.8	20.4	21.0	21.0
BSR 101	20.9	20.5	21.0	21.1
GLENWOOD (O)	20.3	21.6	20.2	19.2
SIBLEY (I)	20.9	20.6	21.3	20.9
STURDY (L)	20.7	20.1	21.2	20.9
A87-195024	20.6	20.2	20.5	21.1
A87-195034	20.6	20.1	20.8	20.8
A87-198005	20.8	20.5	21.3	20.5
E86237	20.9	21.2	21.0	20.5
LN85-874 (SCN)	20.7	20.4	21.0	20.8
M82-106	20.9	21.3	21.8	19.7
M82-559	19.8	19.3	20.4	19.7
M83-108	21.6	22.0	21.7	21.0
M83-830	20.7	21.1	20.9	20.0
M83-899	21.0	21.3	21.6	20.0
M84-916	21.5	21.3	22.2	21.1
M84-1034	21.4	21.2	21.6	21.5
M65-610	20.1	20.4	20.7	19.2
ORC 8601	20.9	20.7	21.6	20.4

UNIFORM PRELIMINARY TEST I, 1989

Strain	Parentage	Generation Composited	Unique Traits
Glenwood (0)	Evans x Peterson 85	F5	
Sibley (I)	M68-256 x Hodgson	F5	
Sturdy (L)	M70-127 x Century	F5	
A88-121004	BSR 101 x A81-151026	F5	Fe Chlor. Resis.
A88-121015	A82-267015 x Harper	F5	
A88-121016	Harper x Profiseed 1138	F5	
A88-121017	BSR 101 x Harper	F5	BSR Resis.
A88-121019	A82-267015 x Sherman	F5	
A88-121025	A8 x Profiseed 1138	F5	BSR Resis.
A88-121026	A8 x Profiseed 1138	F5	BSR Resis.
A88-121027	A83-276024 x A82-267015	F5	BSR Resis.
M85-109	M74-179 x M77-75	F4	Rps1
M85-122	M74-179 x M77-75	F4	Rps1
M85-148	M74-388 x M74-167	F4	Rps1
M85-736	M76-160 x Dassel	F4	Rps6
M85-815	M74-55 x M77-55	F4	Rps1
M85-824	M74-55 x M77-164	F4	Rps1
M85-826	M74-55 x M77-164	F4	Rps1
M85-907	Simpson x A80-147003	F5	Rps1
M85-1004	M73-62 x Pella	F5	Rps1
M85-1122	M74-349 x M77-210	F5	Rps1
M85-1222	M76-160 x Dassel	F5	Rps6
M85-1310	A79-134008 x M76-55	F5	Rps1
ORC 8703	Hodgson x FH22-815	F5	
ORC 8707	1981 x A78-123018	F5	
ORC 8802	Hack x A1895	F5	Dt2
ORC 8803	Pride B152 x HW8039	F5	
SD87031	Ix93-100 x Amsoy		
U8763041	Sherman x Harper	F5	
W87-11	Hodgson 78 x Wells II	F4	
W87-14	Hodgson 87 x Wells II	F4	
W87-15	Hodgson 87 x Wells II	F4	

UNIFORM PRELIMINARY TEST I, 1989

DESCRIPTIVE DATA

Strain	Descriptive Code	Chlorosis Score		Shattering Score
		Ames	Lamber-ton	Manhattan
GLENWOOD (O)	PGBDIbI	2.8	2.0	1
SIBLEY (I)	WGBDYI	4.0	4.0	3
STURDY (L)	PGBDIbI	2.5	2.5	1
A88-121004	PTTSBlI	2.5	2.0	2
A88-121015	WGBSYI	3.5	2.0	2
A88-121016	PG+TBDGI	3.2	2.0	2
A88-121017	PTTSBlI	3.0	2.0	2
A88-121019	WTBSYI	4.5	3.5	1
A88-121025	PTBDYI	3.7	2.5	1
A88-121026	WTBSYI	3.7	2.5	2
A88-121027	P+WGBSYI	2.8	2.5	1
M85-109	PGBDYI	3.0	3.0	1
M85-122	WGBDYI	3.2	3.5	2
M85-148	WGBDBfI	2.0	4.0	2
M85-736	PGBFYI	2.3	2.5	1
M85-815	WGTDYI	2.8	2.0	1
M85-824	P+WTBDBrI	3.5	3.5	1
M85-826	WTTDBrI	2.0	2.5	1
M85-907	P+WGBDBfI	3.8	3.0	2
M85-1004	PGTDGI	2.8	2.5	1
M85-1122	WGBDBfI	2.2	2.0	2
M85-1222	WGBDYI	2.5	2.0	2
M85-1310	WGBDBfI	2.0	2.0	1
ORC 8703	PGBDBfI	2.3	-	1
ORC 8707	PGBSIbI	4.0	-	1
ORC 8802	PGBDBfI	3.7	-	2
ORC 8803	PTBSBrI	4.2	-	2
SD87031	P+WGTSYI	2.7	-	1
U8763041	WG+TBDBl+BrI	3.7	-	1
W87-11	PGBSBf+IbI	2.7	-	1
W87-14	PGBDBfI	3.3	-	2
W87-15	PGBDBfI	3.7	-	2

UNIFORM PRELIMINARY TEST I, 1989

DISEASE DATA

Strain	BSR-Ames Plant n %	BSR-Ames Stem n %	PR Ames Race 4 Reaction	PR Urbana Race 1
GLENWOOD (O)	100.0	82.5	S	R
SIBLEY (I)	100.0	95.9	S	R
STURDY (L)	100.0	88.5	S	R
A88-121004	100.0	95.1	S	R
A88-121015	100.0	88.6	S	S
A88-121016	90.0	77.2	S	R
A88-121017	100.0	49.4	S	R
A88-121019	100.0	81.5	S	S
A88-121025	80.0	21.5	S	M
A88-121026	100.0	48.0	S	R
A88-121027	90.0	70.3	S	S
M85-109	100.0	98.5	S	R
M85-122	100.0	77.4	S	R
M85-148	80.0	46.8	S	R
M85-736	100.0	81.7	R	R
M85-815	100.0	88.7	H	R
M85-824	100.0	94.8	S	R
M85-826	100.0	85.8	S	R
M85-907	100.0	91.4	H	R
M85-1004	100.0	84.2	H	R
M85-1122	100.0	95.2	S	R
M85-1222	100.0	62.7	H	R
M85-1310	100.0	65.8	S	R
ORC 8703	100.0	85.5	S	S
ORC 8707	100.0	66.1	S	R
ORC 8802	100.0	97.6	H	R
ORC 8803	100.0	86.7	S	R
SD87031	100.0	77.1	S	R
U8763041	100.0	91.4	S	S
W87-11	100.0	73.1	S	R
W87-14	100.0	90.1	S	R
W87-15	100.0	84.7	S	R

UNIFORM PRELIMINARY TEST I, 1989

REGIONAL SUMMARY

	Yield	Rank	Maturity	Lodging	Plant Height	Seed Quality	Seed Size	Composition	
								Protein	Oil
No. of Tests	7	7	5	7	7	6	7	3	3
Strain	bu/a	No.	Date	Score	In.	Score	g/100	%	%
GLENWOOD (O)	40.1	31	-7.6	1.2	29	1.6	15.5	38.8	21.4
SIBLEY (I)	46.2	12	09/17*	1.8	37	1.3	17.0	37.8	21.8
STURDY (L)	48.8	3	7.2	1.6	37	1.7	17.3	38.0	21.6
A88-121004	45.7	14	9.8	1.8	36	1.8	16.8	37.1	20.7
A88-121015	47.7	6	7.2	2.0	38	1.5	14.6	39.0	20.8
A88-121016	46.2	12	3.8	1.6	35	1.8	16.6	39.3	20.3
A88-121017	45.6	15	8.0	1.4	36	1.7	17.8	37.1	20.8
A88-121019	49.2	1	7.8	1.8	35	1.6	14.4	37.4	22.0
A88-121025	45.5	17	10.0	1.4	36	2.2	15.9	39.6	20.8
A88-121026	42.0	23	5.4	1.4	32	1.8	14.6	39.4	21.0
A88-121027	47.2	8	6.6	2.0	38	1.7	14.3	38.0	22.1
M85-109	45.6	15	1.2	1.3	33	1.6	17.7	37.3	21.4
M85-122	47.3	7	0.4	1.3	34	1.5	16.9	38.1	21.4
M85-148	39.1	32	-2.0	1.2	33	1.8	14.3	40.5	20.6
M85-736	42.7	21	5.2	1.6	37	1.4	17.3	38.3	21.5
M85-815	44.0	19	2.4	1.3	33	1.4	18.6	37.6	21.8
M85-824	41.0	28	-0.2	1.5	34	1.6	16.3	38.5	21.7
M85-826	42.3	22	-2.6	1.4	34	1.8	16.5	38.5	21.5
M85-907	48.4	4	2.8	1.5	33	1.5	14.1	37.0	22.1
M85-1004	46.9	10	4.4	1.1	35	1.8	18.8	35.6	21.8
M85-1122	41.6	24	1.2	1.5	33	1.6	16.0	39.2	20.8
M85-1222	40.5	30	-1.2	1.4	35	1.6	15.5	38.1	21.6
M85-1310	41.3	26	-4.6	1.3	31	1.6	15.1	37.6	21.8
ORC 8703	48.2	5	-1.4	1.5	31	1.8	15.0	37.8	22.1
ORC 8707	44.7	18	-0.6	1.5	36	1.7	16.1	37.6	21.1
ORC 8802	46.3	11	3.6	1.4	30	1.5	16.6	38.8	21.0
ORC 8803	47.2	8	5.4	1.6	36	1.8	16.4	36.9	21.5
SD87031	41.0	28	0.0	1.5	34	1.7	16.0	37.0	22.3
U8763041	49.1	2	6.6	1.3	36	1.6	16.2	37.9	21.9
W87-11	41.3	26	-2.4	1.9	41	1.8	14.1	38.1	21.5
W87-14	42.8	20	1.0	1.8	37	2.1	15.2	37.9	21.5
W87-15	41.4	25	0.0	1.7	36	1.8	15.0	39.6	21.1

*127.6 Days After Planting

UNIFORM PRELIMINARY TEST I, 1989

YIELD (bu/a)

Strain	Mean 7 Tests	Corwith IA	Royal IA	Saginaw MI	Lamberton MN	Waseca MN	Brookings SD	Arlington WI
GLENWOOD (O)	40.1	46.1	46.5	29.5	33.3	42.6	46.0	36.6
SIBLEY (I)	46.2	35.9	59.1	53.5	38.0	49.3	40.1	47.8
STURDY (L)	48.8	44.9	59.5	53.1	46.8	53.7	43.6	40.1
A88-121004	45.7	44.9	55.0	48.6	46.0	50.1	36.9	38.7
A88-121015	47.7	45.7	59.3	49.0	45.1	54.9	40.9	39.2
A88-121016	46.2	47.3	53.1	49.7	45.1	49.2	38.7	40.0
A88-121017	45.6	40.4	54.1	50.1	44.7	54.1	36.7	39.1
A88-121019	49.2	42.4	58.2	53.5	43.2	55.3	42.3	49.6
A88-121025	45.5	40.0	57.3	40.8	48.6	53.8	38.3	39.4
A88-121026	42.0	46.4	51.8	28.3	43.2	48.8	39.5	36.1
A88-121027	47.2	40.8	57.6	51.2	45.6	52.4	40.4	42.4
M85-109	45.6	41.0	54.2	41.8	42.4	50.6	42.7	46.4
M85-122	47.3	40.8	58.8	50.4	40.8	49.9	44.1	46.5
M85-148	39.1	38.1	47.7	27.1	33.0	40.5	43.1	44.1
M85-736	42.7	37.4	51.0	49.2	38.0	47.3	34.9	40.9
M85-815	44.0	39.5	57.0	41.6	37.2	47.7	43.1	42.1
M85-824	41.0	32.5	49.5	45.8	37.0	40.1	39.7	42.1
M85-826	42.3	30.3	52.4	47.7	35.0	48.6	41.2	40.7
M85-907	48.4	43.9	59.1	44.7	47.1	53.6	48.8	41.7
M85-1004	46.9	48.4	62.8	34.4	39.1	51.5	47.4	44.9
M85-1122	41.6	37.4	55.0	30.6	38.2	46.4	42.4	40.9
M85-1222	40.5	32.5	47.7	47.2	39.1	46.3	37.1	33.8
M85-1310	41.3	33.2	49.3	48.4	33.3	43.0	38.9	42.8
ORC 8703	48.2	36.8	58.4	52.5	47.0	52.5	45.9	44.3
ORC 8707	44.7	44.9	55.0	45.5	32.6	49.0	45.8	40.0
ORC 8802	46.3	42.0	55.4	47.6	38.5	53.2	39.6	48.0
ORC 8803	47.2	49.0	59.1	52.3	34.2	53.5	41.9	40.2
SD87031	41.0	38.1	53.2	45.4	32.1	40.4	37.5	40.6
U8763041	49.1	45.8	56.3	51.5	47.1	52.0	43.8	47.0
W87-11	41.3	32.5	52.0	48.1	32.5	43.3	42.5	37.9
W87-14	42.8	35.9	58.3	50.2	36.4	43.5	37.1	38.3
W87-15	41.4	31.8	48.0	47.1	36.3	45.1	40.7	41.0
C.V. (%)		9.5	6.4	19.0	10.9	7.1	7.1	9.5
L.S.D. (5%)		7.7	6.9	NS	8.9	7.1	5.8	8.1
Row Sp. (In.)		27	27	20	4	4	30	30
Rows/Plot		4	4	4	10	10	4	4
Reps		2	2	4	2	2	2	2

UNIFORM PRELIMINARY TEST I, 1989

YIELD RANK

Strain	Yield Rank	Corwith IA	Royal IA	Saginaw MI	Lamberton MN	Waseca MN	Brookings SD	Arlington WI
GLENWOOD (O)	31	5	32	30	27	29	3	30
SIBLEY (I)	12	25	4	1	19	16	20	3
STURDY (L)	3	8	2	3	5	5	8	21
A88-121004	14	8	16	14	6	14	30	27
A88-121015	6	7	3	13	8	2	17	25
A88-121016	12	3	22	11	8	17	25	22
A88-121017	15	17	20	10	10	3	31	26
A88-121019	1	12	10	2	11	1	14	1
A88-121025	17	18	12	27	1	4	26	24
A88-121026	23	4	25	31	11	19	23	31
A88-121027	8	15	11	7	7	10	19	11
M85-109	15	14	19	25	13	13	11	6
M85-122	7	15	7	8	14	15	6	5
M85-148	32	20	30	32	29	30	10	9
M85-736	21	22	26	12	19	22	32	16
M85-815	19	19	13	26	21	21	9	12
M85-824	28	28	27	21	22	32	21	12
M85-826	22	32	23	17	25	20	16	18
M85-907	4	11	4	24	2	6	1	14
M85-1004	10	2	1	28	15	12	2	7
M85-1122	24	22	16	29	18	23	13	16
M85-1222	30	28	30	19	15	24	28	32
M85-1310	26	27	28	15	27	28	24	10
ORC 8703	5	24	8	4	4	9	4	8
ORC 8707	18	8	16	22	30	18	5	22
ORC 8802	11	13	15	18	17	8	22	2
ORC 8803	8	1	4	5	26	7	15	20
SD87031	28	20	21	23	32	31	27	19
U8763041	2	6	14	6	2	11	7	4
W87-11	26	28	24	16	31	27	12	29
W87-14	20	25	9	9	23	26	28	28
W87-15	25	31	29	20	24	25	18	15

UNIFORM PRELIMINARY TEST I, 1989

MATURITY (date)

Strain	Mean 5 Tests	Corwith IA	Royal IA	Saginaw MI	Lamberton MN	Waseca MN	Brookings SD	Arlington WI
GLENWOOD (O)	-7.6	-4		-7	-5	-14	-8	
SIBLEY (I)	09/17	08/31		10/01	09/15	09/18	09/23	
STURDY (L)	7.2	8		13	6	5	4	
A88-121004	9.8	14		12	8	7	8	
A88-121015	7.2	10		9	6	6	5	
A88-121016	3.8	6		2	4	5	2	
A88-121017	8.0	10		12	6	6	6	
A88-121019	7.8	8		13	7	5	6	
A88-121025	10.0	11		16	9	7	7	
A88-121026	5.4	6		11	4	4	2	
A88-121027	6.6	7		11	6	5	4	
M85-109	1.2	4		3	-2	1	0	
M85-122	0.4	4		2	-1	-2	-1	
M85-148	-2.0	-1		3	-5	-5	-2	
M85-736	5.2	6		12	4	1	3	
M85-815	2.4	6		7	-3	1	1	
M85-824	-0.2	0		1	0	2	-4	
M85-826	-2.6	-3		-3	-3	-1	-3	
M85-907	2.8	6		6	-1	3	0	
M85-1004	4.4	9		7	0	3	3	
M85-1122	1.2	2		6	-2	1	-1	
M85-1222	-1.2	-2		2	-4	-1	-1	
M85-1310	-4.6	-3		-4	-4	-8	-4	
ORC 8703	-1.4	2		-5	-3	-1	0	
ORC 8707	-0.6	0		5	-5	-2	-1	
ORC 8802	3.6	7		5	0	0	6	
ORC 8803	5.4	7		10	3	3	4	
SD87031	0.0	3		-1	-1	0	-1	
U8763041	6.6	7		11	6	5	4	
W87-11	-2.4	-1		-6	-4	-1	0	
W87-14	1.0	3		2	-2	1	1	
W87-15	0.0	1		-1	-3	0	3	
Date Planted	05/12	05/10		05/23	05/09	05/11	05/11	
Days to Mature	127.6	113		131	129	130	135	

UNIFORM PRELIMINARY TEST I, 1989

LODGING (score)

Strain	Mean 7 Tests	Corwith IA	Royal IA	Saginaw MI	Lamberton MN	Waseca MN	Brookings SD	Arlington WI
GLENWOOD (O)	1.2	1.0	1.1	1.0	1.0	2.0	1.0	1.3
SIBLEY (I)	1.8	1.3	2.5	1.0	1.0	3.0	1.0	2.5
STURDY (L)	1.6	1.2	2.0	1.0	1.0	2.5	1.0	2.8
A88-121004	1.8	1.1	2.5	1.0	1.0	3.0	1.0	3.0
A88-121015	2.0	1.1	2.8	2.0	1.0	3.0	1.0	3.0
A88-121016	1.6	1.1	1.8	1.0	1.0	3.0	1.0	2.5
A88-121017	1.4	1.0	1.2	1.0	1.0	2.0	1.0	2.8
A88-121019	1.8	1.2	2.5	1.0	1.0	3.0	1.0	3.0
A88-121025	1.4	1.0	1.6	1.0	1.0	2.0	1.0	2.5
A88-121026	1.4	1.0	1.2	1.0	1.0	2.5	1.0	2.3
A88-121027	2.0	1.1	2.3	1.5	1.0	3.0	1.0	3.8
M85-109	1.3	1.0	1.4	1.0	1.0	2.0	1.0	1.8
M85-122	1.3	1.0	1.5	1.0	1.0	2.0	1.0	1.5
M85-148	1.2	1.0	1.1	1.0	1.0	2.0	1.0	1.3
M85-736	1.6	1.2	2.2	1.0	1.0	2.0	1.0	2.8
M85-815	1.3	1.0	1.4	1.0	1.0	2.0	1.0	1.8
M85-824	1.5	1.1	1.2	1.0	1.0	3.0	1.0	2.0
M85-826	1.4	1.0	1.6	1.0	1.0	2.0	1.0	2.0
M85-907	1.5	1.1	2.4	1.0	1.0	2.0	1.0	2.3
M85-1004	1.1	1.0	1.3	1.0	1.0	1.0	1.0	1.5
M85-1122	1.5	1.1	2.1	1.0	1.0	2.0	1.0	2.5
M85-1222	1.4	1.0	2.1	1.0	1.0	2.0	1.0	2.0
M85-1310	1.3	1.0	1.3	1.0	1.0	2.0	1.0	1.5
ORC 8703	1.5	1.2	2.0	1.0	1.0	2.0	1.0	2.0
ORC 8707	1.5	1.3	2.0	1.0	1.0	2.0	1.0	2.3
ORC 8802	1.4	1.1	1.5	1.0	1.0	2.0	1.0	2.0
ORC 8803	1.6	1.0	2.5	1.0	1.0	2.0	1.0	2.8
SD87031	1.5	1.0	1.9	1.0	1.0	2.0	1.0	2.3
U8763041	1.3	1.0	1.5	1.0	1.0	2.0	1.0	1.8
W87-11	1.9	1.4	2.7	1.0	1.0	3.0	1.0	3.0
W87-14	1.8	1.2	2.3	1.0	1.0	3.0	1.0	3.0
W87-15	1.7	1.3	2.6	1.0	1.0	3.0	1.0	2.3

UNIFORM PRELIMINARY TEST I, 1989

PLANT HEIGHT (inches)

Strain	Mean 7 Tests	Corwith IA	Royal IA	Saginaw MI	Lamberton MN	Waseca MN	Brookings SD	Arlington WI
GLENWOOD (O)	29	29	34	20	30	33	34	26
SIBLEY (I)	37	38	41	30	32	42	42	35
STURDY (L)	37	40	42	29	32	43	41	35
A88-121004	36	34	39	30	33	42	38	34
A88-121015	38	38	43	32	33	47	41	33
A88-121016	35	34	42	27	32	44	35	32
A88-121017	36	35	43	29	31	40	36	35
A88-121019	35	33	40	30	32	43	33	33
A88-121025	36	34	42	32	31	41	38	35
A88-121026	32	34	36	22	30	38	33	31
A88-121027	38	38	45	30	35	43	40	36
M85-109	33	32	38	26	30	37	39	28
M85-122	34	34	41	25	31	40	38	31
M85-148	33	35	38	24	29	38	36	30
M85-736	37	37	42	31	32	44	39	37
M85-815	33	33	37	25	33	36	37	32
M85-824	34	35	38	26	34	39	37	31
M85-826	34	34	37	27	32	40	37	29
M85-907	33	35	40	24	31	38	37	29
M85-1004	35	36	42	25	32	41	38	31
M85-1122	33	34	36	24	31	38	39	32
M85-1222	35	35	38	29	34	37	37	32
M85-1310	31	30	38	25	30	36	30	30
ORC 8703	31	31	36	24	30	36	31	30
ORC 8707	36	36	43	26	34	41	44	31
ORC 8802	30	29	34	21	31	33	35	27
ORC 8803	36	36	42	32	32	41	37	32
SD87031	34	34	39	24	37	36	36	29
U8763041	36	36	40	26	34	46	36	31
W87-11	41	39	46	31	37	47	47	37
W87-14	37	36	43	29	36	40	37	35
W87-15	36	35	42	29	34	41	37	33

UNIFORM PRELIMINARY TEST I, 1989

SEED QUALITY (score)

Strain	Mean 6 Tests	Corwith IA	Royal IA	Saginaw MI	Lamberton MN	Waseca MN	Brookings SD	Arlington WI
GLENWOOD (O)	1.6	2.0	1.5		1.3	1.5	1.0	2.5
SIBLEY (I)	1.3	1.5	1.0		1.0	1.5	1.0	1.5
STURDY (L)	1.7	1.5	1.5		1.0	1.5	2.0	2.5
A88-121004	1.8	2.0	1.5		1.0	2.0	2.0	2.0
A88-121015	1.5	1.0	1.0		1.0	1.5	2.0	2.5
A88-121016	1.8	1.5	1.0		1.0	1.5	3.0	2.5
A88-121017	1.7	1.5	1.5		1.0	1.5	2.0	2.5
A88-121019	1.6	1.0	1.0		1.0	1.5	3.0	2.0
A88-121025	2.2	2.5	1.5		1.0	1.5	4.0	2.5
A88-121026	1.8	1.0	1.0		1.0	1.5	3.0	3.0
A88-121027	1.7	1.0	1.0		1.0	1.5	3.0	2.5
M85-109	1.6	1.5	2.0		1.0	1.5	2.0	1.5
M85-122	1.5	1.0	1.5		1.0	1.5	2.0	2.0
M85-148	1.8	2.0	1.0		1.0	1.5	3.0	2.0
M85-736	1.4	1.0	1.0		1.0	1.5	2.0	2.0
M85-815	1.4	1.0	1.0		1.0	1.5	2.0	2.0
M85-824	1.6	1.5	1.5		1.0	1.5	2.0	2.0
M85-826	1.8	2.0	1.0		1.0	1.5	3.0	2.5
M85-907	1.5	1.0	1.5		1.0	1.0	2.0	2.5
M85-1004	1.8	1.5	1.5		1.0	1.5	2.0	3.0
M85-1122	1.6	1.5	1.5		1.0	1.5	2.0	2.0
M85-1222	1.6	1.5	1.0		1.0	1.0	3.0	2.0
M85-1310	1.6	1.5	1.0		1.3	1.0	3.0	2.0
ORC 8703	1.8	1.5	1.5		1.0	1.5	3.0	2.0
ORC 8707	1.7	1.0	2.0		1.0	1.5	2.0	2.5
ORC 8802	1.5	1.5	1.5		1.0	1.5	2.0	1.5
ORC 8803	1.8	2.0	1.5		1.0	2.0	2.0	2.5
SD87031	1.7	1.5	1.5		1.0	1.5	3.0	1.5
U8763041	1.6	1.0	1.0		1.0	1.5	3.0	2.0
W87-11	1.8	1.0	1.5		1.0	1.5	3.0	3.0
W87-14	2.1	1.5	2.0		1.0	2.0	3.0	3.0
W87-15	1.8	1.5	1.5		1.0	1.5	3.0	2.0

UNIFORM PRELIMINARY TEST I, 1989

SEED SIZE (g/100)

Strain	Mean 7 Tests	Corwith IA	Royal IA	Saginaw MI	Lamberton MN	Waseca MN	Brookings SD	Arlington WI
GLENWOOD (O)	15.5	15.1	17.0	15.4	14.2	15.0	15.1	16.5
SIBLEY (I)	17.0	14.9	19.3	18.5	15.2	18.2	16.4	16.7
STURDY (L)	17.3	16.0	18.1	18.5	16.2	17.3	15.8	18.9
A88-121004	16.8	15.8	17.3	16.9	16.7	18.6	15.6	16.7
A88-121015	14.6	13.9	15.0	14.9	13.8	17.0	14.2	13.3
A88-121016	16.6	16.5	17.1	18.2	16.1	17.9	14.7	15.6
A88-121017	17.8	17.4	17.9	18.4	19.1	19.3	15.3	17.4
A88-121019	14.4	14.2	14.4	14.8	14.0	16.6	13.3	13.7
A88-121025	15.9	15.1	16.4	15.4	17.1	17.2	14.4	15.8
A88-121026	14.6	13.0	14.1	15.5	15.1	16.6	13.1	14.9
A88-121027	14.3	13.6	14.9	15.6	13.9	14.9	12.5	14.6
M85-109	17.7	17.4	18.6	19.1	16.6	18.0	16.7	17.7
M85-122	16.9	16.6	19.0	18.4	15.8	17.4	15.5	15.8
M85-148	14.3	14.0	15.2	15.4	12.5	14.9	13.9	14.2
M85-736	17.3	15.8	17.7	19.1	16.5	18.7	15.3	17.8
M85-815	18.6	18.5	19.6	20.2	17.5	19.5	16.9	17.8
M85-824	16.3	14.5	16.9	18.4	14.3	16.5	15.4	18.4
M85-826	16.5	14.1	18.7	19.1	14.0	17.0	14.5	18.1
M85-907	14.1	13.5	14.6	14.8	13.2	14.3	14.0	14.5
M85-1004	18.8	19.6	19.3	19.2	17.6	20.2	18.1	17.8
M85-1122	16.0	15.8	17.7	17.3	14.1	15.6	15.5	15.9
M85-1222	15.5	13.7	16.0	18.2	14.2	16.1	14.3	16.3
M85-1310	15.1	13.2	16.2	17.3	14.0	14.7	14.1	15.9
ORC 8703	15.0	13.2	16.4	16.8	13.3	15.1	14.6	15.3
ORC 8707	16.1	15.8	17.4	17.7	14.0	16.5	15.3	16.2
ORC 8802	16.6	15.9	17.3	17.9	15.8	16.9	15.6	16.6
ORC 8803	16.4	16.4	16.6	17.7	15.0	17.4	14.3	17.3
SD87031	16.0	14.9	17.3	18.7	14.3	14.9	14.6	17.1
U8763041	16.2	15.6	16.7	17.4	16.5	16.9	14.9	15.7
W87-11	14.1	13.0	15.0	16.6	11.4	14.4	14.0	14.2
W87-14	15.2	14.8	16.2	17.6	12.8	15.0	14.2	15.7
W87-15	15.0	13.2	16.7	17.7	13.9	14.4	14.0	15.3

UNIFORM PRELIMINARY TEST I, 1989

PROTEIN (%)

Strain	Mean 3 Tests	Royal IA	Lamberton MN	Waseca MN
GLENWOOD (O)	38.8	38.4	38.2	39.7
SIBLEY (I)	37.8	38.6	37.4	37.4
STURDY (L)	38.0	38.6	37.9	37.4
A88-121004	37.1	37.4	36.6	37.4
A88-121015	39.0	39.5	37.9	39.7
A88-121016	39.3	39.7	38.6	39.6
A88-121017	37.1	36.5	38.0	36.8
A88-121019	37.4	37.0	36.3	38.9
A88-121025	39.6	39.4	40.3	39.1
A88-121026	39.4	39.5	39.4	39.2
A88-121027	38.0	38.6	38.0	37.3
M85-109	37.3	38.0	37.2	36.7
M85-122	38.1	38.3	38.6	37.4
M85-148	40.5	39.8	41.3	40.3
M85-736	38.3	39.5	38.0	37.5
M85-815	37.6	38.4	38.1	36.2
M85-824	38.5	38.1	39.1	38.4
M85-826	38.5	39.1	38.9	37.5
M85-907	37.0	37.1	36.9	37.0
M85-1004	35.6	35.5	36.5	34.8
M85-1122	39.2	39.4	39.2	39.1
M85-1222	38.1	38.8	37.9	37.5
M85-1310	37.6	38.3	39.0	35.6
ORC 8703	37.8	37.3	37.0	39.0
ORC 8707	37.6	37.6	38.2	37.0
ORC 8802	38.8	39.0	39.5	38.0
ORC 8803	36.9	36.7	37.5	36.4
SD87031	37.0	35.7	36.7	38.6
U8763041	37.9	38.1	37.8	37.9
W87-11	38.1	38.4	38.3	37.7
W87-14	37.9	38.0	38.3	37.3
W87-15	39.6	39.7	40.3	38.9

UNIFORM PRELIMINARY TEST I, 1989

OIL (%)

Strain	Mean 3 Tests	Royal IA	Lamberton MN	Waseca MN
GLENWOOD (O)	21.4	21.2	21.0	22.0
SIBLEY (I)	21.8	21.1	21.8	22.5
STURDY (L)	21.6	21.6	21.3	21.9
A88-121004	20.7	20.3	21.3	20.6
A88-121015	20.8	20.4	21.1	21.0
A88-121016	20.3	19.6	20.5	20.9
A88-121017	20.8	20.6	20.9	20.9
A88-121019	22.0	22.2	21.8	22.0
A88-121025	20.8	20.0	21.3	21.1
A88-121026	21.0	20.8	20.7	21.4
A88-121027	22.1	21.7	21.9	22.7
M85-109	21.4	20.4	21.9	22.0
M85-122	21.4	20.5	21.5	22.1
M85-148	20.6	20.9	19.6	21.4
M85-736	21.5	21.1	21.4	22.1
M85-815	21.8	21.0	21.5	22.8
M85-824	21.7	21.4	21.3	22.4
M85-826	21.5	21.0	21.0	22.6
M85-907	22.1	21.6	22.0	22.8
M85-1004	21.8	21.7	21.7	21.9
M85-1122	20.8	20.1	20.6	21.7
M85-1222	21.6	21.1	21.2	22.5
M85-1310	21.8	21.3	20.5	23.5
ORC 8703	22.1	22.0	22.2	22.0
ORC 8707	21.1	20.6	20.5	22.3
ORC 8802	21.0	20.8	20.8	21.5
ORC 8803	21.5	20.9	21.6	22.1
SD87031	22.3	22.2	21.9	22.9
U8763041	21.9	21.6	21.9	22.3
W87-11	21.5	21.3	20.4	22.7
W87-14	21.5	21.4	20.9	22.3
W87-15	21.1	20.5	21.2	21.5

UNIFORM TEST II, 1989

Strain	Parentage	Previous* Testing	Generation Composited	Unique Traits
Burlison (L)	K74-113-76-486 x Century	2	F5	Rps1-b, Rps3
Kenwood (II)	Elgin x Asgrow A1937	2	F5	
Sturdy (I)	M70-127 x Century	1	F5	
LN83-3824-1 (SCN)	Fayette x Hardin	SCN IIA	F4	SCN 3,4
A86-103002	Jacques J103 x A81-356022	1	F5	
A86-203034	A81-356022 x Zane	1	F5	
A86-204022	Hack x Zane	1	F5	
A87-187007	BSR 101 x A81-151026	PTI	F5	Fe Chl Resis
A87-187020	Jacques J103 x A81-151026	PTI	F5	Fe Chl Resis
A87-195032	BSR 101 x CN 210	SCN IIA	F5	SCN 3,Rps1
A87-196014	BSR 101 x A80-344003	PTI	F5	BSR Resis
A87-198015	Hack x A81-157024	PTI	F5	
A87-297015	Pride B152 x A80-244003	PTIIA	F5	
A87D20	Elf x A73D16	PTIIB	F5	
C1732	Century 84 x Harper	PTIIB	F6	Rps1-k
C1736	A80-244003 x Century 84	PTIIB	F6	Rps1-k
E86315	HW8039 x Pella	PTIIB	F3	
E86339	HW8039 x Elgin	PTIIB	F3	
E86348	HW8039 x A80-244035	PTIIB	F3	
HM8625	A79-236002 x HW79149	UTIII	BC2 F3	
HM8734	A78-123018 (2) x Century 84	PTIIB	BC1 F3	Rps1-k
HM8735	A78-123018 (2) x Century 84	PTIIIB	BC1 F3	Rps1-k
HS84-6247	Zane (3) x HW79149	1	BC2 F3	
LN84-8147	Hack x Harper	PTIIA	F5	
LN85-6253	LNX8132 x A80-244003	PTIIA	F5	
LN85-6377	LNX8132 x A80-244003	PTIIA	F5	
LN85-10234	LNX8179 x A80-244003	PTIIA	F5	Rps1
LN85-10524	LNX8179 x A80-244003	PTI	F5	PR 1,3 Resis
ORC 8502	Wells II x Williams 82	PTIIB	F5	Rps1-c
U85-63023	Nebsoy x Mead	PTI	F6	
U85-64055	U46762 x C1514	PTIIA	F5	

* Number of years in test or name of 1988 test.

UNIFORM TEST II, 1989

DESCRIPTIVE DATA

Strain	Descriptive Code	Chlorosis Score Ames	Chlorosis Score Lamber-ton	Emerg. Score Ames	Shattering Score Manhattan
BURLISON (L)	WTTSBlI	2.8	2.5	1	1
KENWOOD (II)	PTBSBlI	5.0	3.5	1	2
STURDY (I)	PGBDIbI	4.0	2.5	5	2
LN83-3824-1 (SCN)	WGBDYI	4.4	2.5	3	1
A86-103002	WTBSBrI	4.1	2.5	2	1
A86-203034	PGBSIbI	5.0	4.0	2	1
A86-204022	PGBSIbI	5.0	3.5	4	1
A87-187007	PG+TBSHetI	3.8	2.0	1	1
A87-187020	PG+TBSBfI	4.0	2.0	1	1
A87-195032	PGBSIbI	4.1	3.0	2	2
A87-196014	WGTSBfI	4.2	2.0	2	3
A87-198015	WGTDBfI	4.6	2.5	4	2
A87-297015	PTBSBrI	5.0	4.0	1	1
A87D20	PGBSIbI	5.0	3.0	1	1
C1732	PTBSBlI	4.6	2.5	2	2
C1736	PTBSBlI	4.8	2.5	1	2
E86315	PTTSBlI	5.0	4.0	2	2
E86339	PTTSBlI	4.8	3.0	2	2
E86348	PTBSBlI	4.8	3.0	2	2
HM8625	PGBSIbI	4.1	2.5	3	1
HM8734	PGBDIbI	4.6	3.0	4	2
HM8735	PTBDBrI	5.0	2.5	2	1
HS84-6247	PGBSIbI	5.0	4.0	2	2
LN84-8147	PGTSIbI	4.6	3.0	5	1
LN85-6253	WGBSBfI	5.0	5.0	1	2
LN85-6377	PGBDIbI	4.9	4.5	1	2
LN85-10234	WTTDBlI	4.9	5.0	3	1
LN85-10524	WGTSBfI	4.9	4.5	1	1
ORC 8502	PTBDBlI	4.2	3.5	5	2
U85-63023	PGBDIbI	4.6	3.5	4	2
U85-64055	PGBDYI	3.9	3.0	4	1

UNIFORM TEST II, 1989

DISEASE DATA

Strain	BTS Ames a Score	BSR-Ames Plant n %	BSR-Ames Stem n %	PR Ames Race 4 Reaction	PR Urbana Race 1	PS Lafayette a %	PSB Lafayette n %	SMV Lafayette a Score
BURLISON (L)	3	100.0	81.8	R	R	28	28	3E
KENWOOD (II)	3	100.0	81.8	S	S	39	62	3E
STURDY (I)	2	100.0	95.0	S	R	10	70	4E
LN83-3824-1 (SCN)	4	100.0	60.7	S	S	26	34	3E
A86-103002	2	100.0	83.7	S	S	9	28	5S
A86-203034	2	100.0	62.2	S	R	6	28	3M
A86-204022	2	100.0	92.9	S	S	4	42	3M
A87-187007	2	100.0	98.5	S	R	30	20	5E
A87-187020	3	100.0	98.7	S	S	42	36	5E
A87-195032	3	100.0	89.3	S	R	27	38	4M
A87-196014	3	90.0	75.4	H	R	28	46	4M
A87-198015	3	100.0	100.0	H	S	18	80	3E
A87-297015	3	100.0	82.8	H	R	10	30	3M
A87D20	3	100.0	100.0	S	S	30	36	2M
C1732	3	100.0	96.6	R	R	8	14	3E
C1736	3	100.0	97.5	R	R	7	14	5E
E86315	3	100.0	93.7	H	S	5	30	5M
E86339	3	100.0	98.2	S	S	9	26	5S
E86348	2	100.0	96.8	H	S	0	26	5E
HM8625	3	100.0	96.5	R	R	7	16	3M
HM8734	2	100.0	99.5	R	R	8	12	3S
HM8735	3	100.0	97.0	R	R	43	22	5E
HS84-6247	3	100.0	88.2	R	R	15	30	5E
LN84-8147	3	100.0	100.0	S	S	22	48	3M
LN85-6253	3	100.0	75.2	S	S	35	64	3E
LN85-6377	3	100.0	96.0	H	S	23	46	5E
LN85-10234	2	100.0	84.6	H	R	10	18	5E
LN85-10524	3	100.0	92.0	H	R	18	16	4E
ORC 8502	3	100.0	98.3	S	R	45	26	3E
U85-63023	2	100.0	82.7	H	R	38	48	3E
U85-64055	3	100.0	93.2	H	R	39	14	4E

UNIFORM TEST II, 1989

REGIONAL SUMMARY

No. of Tests / Strain	Yield 22 bu/a	Rank 22 No.	Maturity 17 Date	Lodging 22 Score	Plant Height 22 In.	Seed Quality 20 Score	Seed Size 22 g/100	Composition Protein 5 %	Composition Oil 5 %
BURLISON (L)	44.6	21	4.7	1.4	32	2.0	17.9	40.7	19.3
KENWOOD (II)	48.7	2	09/24*	1.6	34	1.9	15.2	37.3	21.5
STURDY (I)	47.4	5	-3.5	1.4	33	1.8	17.9	38.2	20.9
LN83-3824-1 (SCN)	46.5	9	7.1	2.1	39	2.2	14.4	38.0	21.0
A86-103002	45.4	16	1.6	1.3	30	2.0	17.1	39.9	20.3
A86-203034	45.2	17	6.5	2.0	37	2.1	18.5	38.1	20.6
A86-204022	47.4	5	6.7	1.7	35	2.2	18.0	37.7	21.2
A87-187007	45.8	13	-2.7	1.6	31	2.1	15.8	38.0	20.9
A87-187020	41.1	24	-3.4	1.3	29	1.8	15.3	36.8	21.9
A87-195032	40.5	25	2.4	2.0	39	1.9	16.0	36.1	21.5
A87-196014	45.9	11	-0.8	1.5	34	1.7	14.9	37.2	21.5
A87-198015	43.4	22	-1.5	1.2	28	1.6	14.7	38.0	21.7
A87-297015	47.3	7	3.8	1.3	32	2.1	17.4	38.0	21.0
A87D20	43.4	22	2.7	1.3	32	2.0	15.8	37.6	21.3
C1732	45.9	11	5.2	1.5	33	1.8	18.4	41.0	19.8
C1736	45.5	15	4.1	1.7	37	2.0	16.3	38.9	20.7
E86315	46.1	10	-2.3	1.3	32	1.8	17.3	38.0	21.0
E86339	47.8	4	-0.8	1.5	31	2.1	16.8	37.4	21.6
E86348	46.7	8	2.0	1.4	33	2.0	17.4	36.8	21.5
HM8625 Chappell	48.8	1	2.9	1.5	33	1.9	19.3	38.4	21.7
HM8734	45.7	14	1.1	1.9	35	1.9	15.4	39.2	20.9
HM8735	44.7	20	-3.2	2.2	32	1.8	15.2	40.4	20.7
HS84-6247	48.1	3	3.1	1.7	33	2.0	18.2	37.6	21.8
LN84-8147	45.0	18	0.5	1.3	31	1.9	17.6	37.9	21.1
LN85-6253	44.9	19	3.4	1.6	35	1.9	15.8	38.8	20.6
LN85-6377	33.0	26	4.3	1.6	33	2.1	15.5	39.1	21.3
LN85-10234	31.5	29	4.4	1.8	35	2.3	16.8	38.8	19.8
LN85-10524	31.2	31	0.8	1.8	30	1.8	14.6	38.4	21.4
ORC 8502	32.8	27	-4.1	1.3	35	2.0	18.1	38.9	21.3
U85-63023	31.3	30	0.4	1.5	31	2.4	18.4	39.6	20.4
U85-64055	31.8	28	3.0	1.8	39	2.4	18.5	38.0	21.2

*127.9 Days after planting

UNIFORM TEST II, 1989

1988-1989 2-YEAR MEAN

No. of Tests Strain	Yield 44 bu/a	Rank 44 No.	Maturity 37 Date	Lodging 44 Score	Plant Height 44 In.	Seed Quality 42 Score	Seed Size 44 g/100	Composition Protein 10 %	 Oil 10 %
Burlison (L)	44.0	4	5.0	1.4	32	1.9	17.2	41.5	19.8
Kenwood (II)	46.0	1	09/20*	1.7	34	2.2	14.6	38.0	22.0
Sturdy (I)	43.2	7	-3.1	1.4	32	2.0	17.3	39.0	21.6
A86-103002	43.6	6	1.4	1.3	30	2.3	16.6	40.4	20.8
A86-203034	43.8	5	5.8	1.9	37	2.1	18.0	39.6	20.8
A86-204022	45.0	3	5.9	1.6	34	2.1	17.6	39.2	21.2
HS84-6247	45.2	2	3.4	1.6	33	2.1	17.8	38.8	21.8

*127.0 Days after planting

UNIFORM TEST II, 1989

YIELD (bu/a)

Strain	Mean 22 Tests	Ames IA	Halbur IA	Marshall-town IA	Dekalb IL	Gibson IL	Urbana IL
BURLISON (L)	44.6	48.6	44.5		63.3	61.5	56.0
KENWOOD (II)	48.7	51.0	47.0		64.1	60.5	54.3
STURDY (I)	47.4	51.3	48.9		61.7	61.8	57.7
LN83-3824-1 (SCN)	46.5	48.8	46.6		59.2	62.2	70.9
A86-103002	45.4	50.5	42.9		64.0	63.9	43.0
A86-203034	45.2	45.9	42.9		62.0	67.0	60.4
A86-204022	47.4	50.0	50.3		66.0	66.5	59.0
A87-187007	45.8	50.7	45.4		64.0	53.9	58.3
A87-187020	41.1	50.2	45.4		62.5	56.3	34.0
A87-195032	40.5	44.6	39.2		55.3	61.2	55.5
A87-196014	45.9	51.3	48.5		61.6	64.0	58.7
A87-198015	43.4	51.9	46.4		53.1	60.7	50.5
A87-297015	47.3	52.8	47.2		70.5	63.4	68.2
A87D20	43.4	46.1	46.5		63.5	65.9	47.1
C1732	45.9	49.5	45.4		56.0	60.7	67.8
C1736	45.5	47.7	43.1		57.8	66.0	61.7
E86315	46.1	50.5	43.4		59.2	65.3	55.2
E86339	47.8	54.5	47.0		62.5	64.8	58.5
E86348	46.7	53.8	45.8		59.8	68.3	66.1
HM8625	48.8	54.2	47.8		66.2	68.4	67.0
HM8734	45.7	46.2	45.2		61.4	57.5	60.4
HM8735	44.7	48.4	44.1		58.4	58.4	51.5
HS84-6247	48.1	52.7	47.7		65.2	57.6	69.0
LN84-8147	45.0	50.7	47.3		61.1	61.0	59.3
LN85-6253	44.9	52.0	45.2		54.3	62.1	56.6
LN85-6377	33.0	49.1	42.7		59.8	59.0	51.4
LN85-10234	31.5	48.1	43.2		58.6	57.0	61.5
LN85-10524	31.2	50.2	48.9		58.3	55.8	59.8
ORC 8502	32.8	45.5	40.6		53.9	51.7	58.9
U85-63023	31.3	47.4	39.8		52.8	52.6	61.0
U85-64055	31.8	49.0	46.8		37.3	59.3	59.8
C.V. (%)		5.5	5.1		5.5	6.8	10.6
L.S.D. (5%)		4.5	3.7		5.3	6.6	9.9
Row Sp. (In.)		27	27		30	30	30
Rows/Plot		4	4		4	4	4
Reps		3	3		3	3	3

UNIFORM TEST II, 1989

YIELD (bu/a)

Strain	Bluff-ton IN	Lafay-ette IN	Britton MI	Saginaw MI	Lamber-ton MN	Waseca MN	Con-cord NE	Madi-son NE	Mead NE
BURLISON (L)	37.2	45.4	56.2	37.6	35.6	56.5	17.8	48.3	55.2
KENWOOD (II)	40.5	40.9	59.6	52.2	41.1	69.3	26.8	58.9	61.0
STURDY (I)	37.5	31.0	59.6	52.4	42.2	64.3	21.8	59.2	61.7
LN83-3824-1 (SCN)	30.7	44.3	68.3	36.7	43.5	57.8	22.5	44.8	55.7
A86-103002	30.7	37.5	56.7	47.9	40.4	65.4	22.9	51.6	63.1
A86-203034	30.0	39.7	60.1	45.5	41.9	64.9	17.7	45.9	52.3
A86-204022	34.8	43.2	57.7	39.7	42.4	65.2	22.7	55.1	58.2
A87-187007	33.6	36.4	61.0	46.2	40.7	59.7	24.5	48.5	61.6
A87-187020	15.4	37.5	33.8	47.6	37.3	63.1	21.9	47.8	62.5
A87-195032	41.5	36.9	50.5	41.8	32.0	45.9	16.3	45.7	51.6
A87-196014	32.4	32.1	62.5	41.5	43.1	65.7	23.8	54.5	59.2
A87-198015	16.7	34.8	48.2	44.6	36.2	65.7	22.2	49.2	57.2
A87-297015	36.7	43.2	71.7	37.8	44.3	56.4	21.1	48.5	58.8
A87D20	42.1	40.7	53.6	45.6	30.6	44.6	17.8	46.7	59.7
C1732	36.8	39.9	61.0	37.3	42.6	58.2	21.7	59.2	58.7
C1736	37.6	42.3	64.4	39.9	42.8	57.9	19.6	52.5	59.2
E86315	37.4	38.1	56.2	50.3	36.3	72.5	23.5	54.1	57.9
E86339	39.3	38.0	62.1	55.4	35.0	65.3	21.9	51.9	59.4
E86348	38.1	42.0	57.8	43.9	41.0	61.0	20.9	49.9	61.8
HM8625	40.2	46.3	67.2	46.2	44.4	67.7	19.4	52.9	53.7
HM8734	46.0	36.4	59.9	46.8	39.8	52.3	23.8	52.7	62.6
HM8735	32.5	36.6	55.5	45.5	38.5	58.3	28.0	48.7	58.4
HS84-6247	41.1	43.2	60.0	48.3	40.8	73.2	19.1	53.7	54.9
LN84-8147	27.6	31.2	54.8	36.7	34.7	65.7	21.3	53.4	53.6
LN85-6253	29.7	41.7	57.2	42.3	41.0	60.5	23.6	47.0	60.6
LN85-6377	37.5	41.7	55.7	36.1	44.8	59.2	23.4	49.4	57.2
LN85-10234	39.8	35.5	60.0	35.7	40.7	61.8	22.0	48.2	54.3
LN85-10524	42.7	34.9	59.2	38.4	39.2	59.6	22.5	46.5	54.3
ORC 8502	38.8	36.3	61.8	58.5	31.6	64.8	20.7	43.1	52.8
U85-63023	41.7	29.0	57.9	40.4	34.4	60.0	22.4	52.2	56.3
U85-64055	25.0	38.4	57.1	51.2	37.7	59.3	19.0	50.1	57.2
C.V. (%)	34.3	10.5	9.0	17.5	9.7	10.8	15.1	13.2	7.8
L.S.D. (5%)	19.8	6.6	7.4	10.9	6.2	10.8	5.4	10.9	7.4
Row Sp. (In.)	24	24	20	20	10	10	30	30	30
Rows/Plot	4	4	4	4	10	10	4	4	4
Reps	3	3	4	4	3	3	3	3	3

UNIFORM TEST II, 1989

YIELD (bu/a)

Strain	Adel-phia NJ	Hoyt-ville OH	Wooster OH	Malden Ont.	Ridge-town Ont.	State College PA	Brook-ings SD	Center-ville SD	Arling-ton WI
BURLISON (L)	45.8	32.7	31.6	64.7		34.3	33.8	36.0	37.8
KENWOOD (II)	43.8	40.3	36.0	59.3		30.3	43.8	44.0	46.8
STURDY (I)	39.5	33.2	34.9	53.2		33.0	43.5	42.9	50.6
LN83-3824-1 (SCN)	52.6	34.5	36.7	62.9		35.3	33.0	37.5	37.8
A86-103002	47.0	31.0	24.2	59.3		30.3	42.2	40.5	44.6
A86-203034	57.3	33.0	32.3	57.3		35.3	34.3	33.3	36.0
A86-204022	53.4	33.1	33.7	60.5		36.3	33.7	38.0	42.4
A87-187007	49.2	33.9	34.3	58.5		28.7	39.7	35.6	42.6
A87-187020	43.4	27.5	23.7	41.7		29.0	42.8	35.4	44.4
A87-195032	30.3	33.0	27.3	49.0		31.3	33.3	34.3	35.1
A87-196014	43.2	31.2	28.0	57.8		32.0	42.6	33.2	43.8
A87-198015	45.5	30.3	27.7	53.5		31.0	45.7	41.0	42.0
A87-297015	43.7	37.8	33.5	62.2		33.0	39.0	32.4	38.3
A87D20	41.1	33.1	34.2	54.3		33.3	35.1	36.5	36.9
C1732	43.7	33.7	35.1	64.2		36.3	35.4	39.0	27.2
C1736	44.0	35.7	32.9	60.6		33.7	30.7	33.7	37.0
E86315	39.1	31.9	33.3	59.3		30.0	45.4	37.9	37.8
E86339	43.1	38.2	36.0	59.2		31.0	43.1	42.6	43.6
E86348	39.4	35.4	32.8	61.6		31.3	33.2	39.5	43.3
HM8625	45.2	34.5	36.2	64.7		33.0	39.0	37.9	42.5
HM8734	40.6	37.6	35.2	52.7		33.0	35.1	39.3	40.4
HM8735	42.4	35.7	35.7	56.6		31.0	39.4	39.7	39.6
HS84-6247	47.2	38.2	32.7	63.2		33.3	37.4	35.3	44.2
LN84-8147	47.1	32.9	32.5	62.0		31.0	42.0	41.0	43.7
LN85-6253	42.5	32.3	33.2	59.6		34.0	35.8	38.1	38.3
LN85-6377	42.5	37.4	31.8	60.6		35.0	32.9	42.7	38.7
LN85-10234	39.0	30.6	31.9	57.5		32.7	32.4	35.4	35.7
LN85-10524	32.2	27.4	26.3	57.9		32.0	38.3	38.6	37.3
ORC 8502	49.4	32.5	27.6	55.2		27.7	42.8	38.2	40.7
U85-63023	37.0	29.5	30.9	57.4		31.7	39.9	34.9	34.0
U85-64055	43.1	34.6	34.4	53.8		32.0	34.0	37.8	34.1
C.V. (%)	17.3	8.4	10.1	7.6		3.6	6.5	10.1	10.1
L.S.D. (5%)	7.0	4.6	6.8	7.2		1.9	4.0	6.2	6.6
Row Sp. (In.)	30	30	30	24		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 II, 1989

YIELD RANK

Strain	Yield Rank	Ames IA	Halbur IA	Marshall-town IA	Dekalb IL	Gibson IL	Urbana IL
BURLISON (L)	21	22	21		9	15	22
KENWOOD (II)	2	10	9		5	20	25
STURDY (I)	5	8	2		13	14	20
LN83-3824-1 (SCN)	9	21	12		19	12	1
A86-103002	16	13	26		6	10	30
A86-203034	17	29	26		12	3	10
A86-204022	5	17	1		3	4	15
A87-187007	13	11	16		6	29	19
A87-187020	24	15	16		11	27	31
A87-195032	25	31	31		27	16	23
A87-196014	11	8	4		14	9	17
A87-198015	22	7	14		30	18	28
A87-297015	7	4	8		1	11	3
A87D20	22	28	13		8	6	29
C1732	11	18	16		26	18	4
C1736	15	25	25		24	5	7
E86315	10	13	23		19	7	24
E86339	4	1	9		10	8	18
E86348	8	3	15		17	2	6
HM8625	1	2	5		2	1	5
HM8734	14	27	19		15	25	10
HM8735	20	23	22		22	23	26
HS84-6247	3	5	6		4	24	2
LN84-8147	18	11	7		16	17	14
LN85-6253	19	6	19		28	13	21
LN85-6377	26	19	28		18	22	27
LN85-10234	29	24	24		21	26	8
LN85-10524	31	15	2		23	28	12
ORC 8502	27	30	29		29	31	16
U85-63023	30	26	30		31	30	9
U85-64055	28	20	11		25	21	12

UNIFORM TEST II, 1989

YIELD RANK

Strain	Bluff-ton IN	Lafay-ette IN	Britton MI	Saginaw MI	Lamber-ton MN	Waseca MN	Con-cord NE	Madi-son NE	Mead NE
BURLISON (L)	17	2	24	26	25	27	28	22	23
KENWOOD (II)	7	11	14	4	11	3	2	3	7
STURDY (I)	14	30	15	3	9	13	18	1	5
LN83-3824-1 (SCN)	24	3	2	29	4	26	11	30	22
A86-103002	24	18	22	8	17	8	9	14	1
A86-203034	26	14	10	15	10	11	30	28	30
A86-204022	20	4	19	23	8	10	10	4	16
A87-187007	21	22	9	11	15	19	3	20	6
A87-187020	31	18	31	9	22	14	16	24	3
A87-195032	5	20	29	19	29	30	31	29	31
A87-196014	23	28	5	20	5	5	4	5	11
A87-198015	30	27	30	16	24	5	14	18	18
A87-297015	19	4	1	25	3	28	21	20	13
A87D20	3	12	28	13	31	31	28	26	9
C1732	18	13	8	27	7	24	19	1	14
C1736	13	7	4	22	6	25	24	11	11
E86315	16	16	23	6	23	2	7	6	17
E86339	10	17	6	2	26	9	16	13	10
E86348	12	8	18	17	12	16	22	16	4
HM8625	8	1	3	12	2	4	25	9	27
HM8734	1	22	13	10	18	29	4	10	2
HM8735	22	21	26	14	20	23	1	19	15
HS84-6247	6	4	12	7	14	1	26	7	24
LN84-8147	28	29	27	28	27	5	20	8	28
LN85-6253	27	9	20	18	12	17	6	25	8
LN85-6377	14	9	25	30	1	22	8	17	18
LN85-10234	9	25	11	31	15	15	15	23	25
LN85-10524	2	26	16	24	19	20	11	27	25
ORC 8502	11	24	7	1	30	12	23	31	29
U85-63023	4	31	17	21	38	18	13	12	21
U85-64055	29	15	21	5	21	21	27	15	18

UNIFORM TEST II, 1989

YIELD RANK

Strain	Adel-phia NJ	Hoyt-ville OH	Wooster OH	Malden Ont.	Ridge-town Ont.	State College PA	Brook-ings SD	Center-ville SD	Arling-ton WI
BURLISON (L)	9	19	23	1		6	24	21	20
KENWOOD (II)	13	1	3	13		26	3	1	2
STURDY (I)	25	13	8	28		11	4	2	1
LN83-3824-1 (SCN)	3	10	1	5		3	28	19	20
A86-103002	8	24	30	13		26	9	7	3
A86-203034	1	16	20	22		3	22	29	26
A86-204022	2	14	12	10		1	25	15	12
A87-187007	5	11	10	17		30	12	22	10
A87-187020	16	28	31	31		29	6	23	4
A87-195032	31	17	28	30		20	26	27	28
A87-196014	17	23	25	19		16	8	30	6
A87-198015	10	26	26	27		22	1	5	13
A87-297015	14	3	13	6		11	14	31	18
A87D20	23	15	11	25		9	20	20	25
C1732	14	12	7	3		1	19	11	31
C1736	12	6	16	9		8	31	28	24
E86315	27	22	14	13		28	2	16	20
E86339	18	2	3	16		22	5	4	8
E86348	26	7	17	8		20	27	9	9
HM8625	11	9	2	1		11	14	16	11
HM8734	24	4	6	29		11	20	10	15
HM8735	22	6	5	23		22	13	8	16
HS84-6247	6	2	18	4		9	17	25	5
LN84-8147	7	18	19	7		22	10	5	7
LN85-6253	20	21	15	12		7	18	14	18
LN85-6377	20	5	22	11		5	29	3	17
LN85-10234	28	25	21	20		15	30	23	27
LN85-10524	30	29	29	18		16	16	12	23
ORC 8502	4	20	27	24		31	6	13	14
U85-63023	29	27	24	21		19	11	26	30
U85-64055	18	8	9	26		16	23	18	29

UNIFORM TEST II, 1989

MATURITY (date)

Strain	Mean 17 Tests	Ames IA	Halbur IA	Marshall-town IA	Dekalb IL	Gibson IL	Urbana IL
BURLISON (L)	4.7	4				8	6
KENWOOD (II)	09/24	09/21				09/12	09/15
STURDY (I)	-3.5	-3				-4	-7
LN83-3824-1 (SCN)	7.1	6				12	9
A86-103002	1.6	2				5	-2
A86-203034	6.5	6				12	6
A86-204022	6.7	4				14	8
A87-187007	-2.7	-2				-5	-6
A87-187020	-3.4	-2				-3	-8
A87-195032	2.4	2				7	2
A87-196014	-0.8	-1				1	-1
A87-198015	-1.5	-3				3	-2
A87-297015	3.8	5				4	4
A87D20	2.7	3				9	2
C1732	5.2	5				11	6
C1736	4.1	4				9	4
E86315	-2.3	-3				1	-2
E86339	-0.8	0				-1	0
E86348	2.0	2				6	2
HM8625	2.9	1				5	2
HM8734	1.1	1				3	-2
HM8735	-3.2	-2				-3	-8
HS84-6247	3.1	2				5	3
LN84-8147	0.5	0				3	-2
LN85-6253	3.4	2				7	2
LN85-6377	4.3	3				7	4
LN85-10234	4.4	4				10	4
LN85-10524	0.8	0				2	1
ORC 8502	-4.1	-4				-7	-8
U85-63023	0.4	-1				4	7
U85-64055	3.0	3				3	7
Date Planted	05/19	05/15				05/08	05/15
Days to Mature	127.5	129				127	123

UNIFORM TEST II, 1989

MATURITY (date)

Strain	Bluff-ton IN	Lafay-ette IN	Britton MI	Saginaw MI	Lamber-ton MN	Waseca MN	Con-cord NE	Madi-son NE	Mead NE
BURLISON (L)	5	7	6	2	5	4			4
KENWOOD (II)	10/05	09/11	09/23	10/15	09/23	09/26			09/22
STURDY (I)	-1	-5	-5	-1	-3	-3			-2
LN83-3824-1 (SCN)	5	15	11	2	6	4			9
A86-103002	3	7	-1	1	2	1			3
A86-203034	4	13	7	3	6	4			7
A86-204022	4	14	8	2	6	4			6
A87-187007	0	-3	-7	-1	-1	-2			-4
A87-187020	-3	-2	-9	-1	-1	-1			-4
A87-195032	2	5	3	2	1	1			1
A87-196014	0	3	-6	-1	0	0			-2
A87-198015	0	0	-3	-1	0	0			-2
A87-297015	3	7	6	2	5	4			6
A87D20	3	7	2	1	2	-1			5
C1732	4	9	9	3	3	4			6
C1736	3	7	3	2	4	4			5
E86315	-2	0	-7	-1	-3	-1			-4
E86339	1	3	-2	0	-3	-1			-2
E86348	2	8	-1	1	2	1			3
HM8625	4	10	3	1	3	1			6
HM8734	1	1	1	2	2	1			1
HM8735	-3	-3	-7	0	-3	-3			-3
HS84-6247	4	9	3	2	3	1			5
LN84-8147	2	4	-3	2	1	2			0
LN85-6253	4	8	4	2	2	3			3
LN85-6377	4	8	4	2	5	4			8
LN85-10234	4	8	5	1	4	4			6
LN85-10524	3	4	1	2	0	-1			1
ORC 8502	1	-5	-8	-5	-4	-3			-4
U85-63023	1	-1	-1	2	0	0			-2
U85-64055	2	5	3	0	0	2			3
Date Planted	06/20	05/16	05/05	05/23	05/09	05/10			05/19
Days to Mature	107	118	141	145	137	139			126

UNIFORM TEST II, 1989

MATURITY (date)

Strain	Adel-phia NJ	Hoyt-ville OH	Wooster OH	Malden Ont.	Ridge-town Ont.	State College PA	Brook-ings SD	Center-ville SD	Arling-ton WI
BURLISON (L)	4	6	8	5		-2	5	3	
KENWOOD (II)	09/24	10/07	09/19	09/25		09/27	10/01	09/18	
STURDY (I)	-7	-2	-1	-6		-1	-3	-6	
LN83-3824-1 (SCN)	9	1	10	10		1	5	5	
A86-103002	4	2	3	1		-6	2	0	
A86-203034	7	5	9	10		2	5	4	
A86-204022	8	5	11	9		1	5	5	
A87-187007	-3	0	1	-6		-4	-1	-2	
A87-187020	-6	0	-2	-7		-4	-1	-4	
A87-195032	-8	1	7	6		7	1	1	
A87-196014	-4	-1	1	-2		3	-2	-1	
A87-198015	-5	0	1	-3		-7	-3	-1	
A87-297015	-1	3	7	5		-1	3	2	
A87D20	4	0	3	2		-1	3	2	
C1732	3	4	10	6		-1	4	3	
C1736	5	1	9	3		3	3	0	
E86315	-7	0	0	-5		-2	-1	-2	
E86339	-3	0	1	-2		-5	0	0	
E86348	-2	0	5	0		-1	4	2	
HM8625	1	1	5	3		0	2	2	
HM8734	-3	0	7	4		-1	2	-1	
HM8735	-6	-1	0	-6		-1	-2	-4	
HS84-6247	1	2	4	5		-1	2	2	
LN84-8147	-2	0	3	-1		-1	0	0	
LN85-6253	4	2	8	6		1	0	0	
LN85-6377	5	1	7	6		-1	3	3	
LN85-10234	7	1	8	2		2	3	2	
LN85-10524	0	0	5	0		-2	-2	0	
ORC 8502	-4	-1	-5	-7		1	-3	-3	
U85-63023	-4	0	2	2		-2	1	-2	
U85-64055	-1	0	6	4		5	4	5	
Date Planted	05/31	06/26	05/18	05/18		06/08	05/11	05/10	
Days to Mature	116	103	124	130		111	143	131	

UNIFORM TEST II, 1989

LODGING (score)

Strain	Mean 22 Tests	Ames IA	Halbur IA	Marshall-town IA	Dekalb IL	Gibson IL	Urbana IL
BURLISON (L)	1.4	1.5	2.4		1.5	1.3	1.0
KENWOOD (II)	1.6	2.0	2.4		2.5	2.0	1.3
STURDY (I)	1.4	1.7	2.2		1.7	1.0	1.0
LN83-3824-1 (SCN)	2.1	2.9	3.4		3.0	2.0	2.7
A86-103002	1.3	1.5	1.7		1.3	1.3	1.0
A86-203034	2.0	2.9	2.8		2.7	1.7	1.7
A86-204022	1.7	1.9	2.3		2.3	1.7	1.3
A87-187007	1.6	2.0	2.3		2.3	1.3	1.3
A87-187020	1.3	1.4	1.5		1.2	1.0	1.0
A87-195032	2.0	2.5	3.2		2.7	2.5	2.0
A87-196014	1.5	1.8	2.0		2.2	1.5	1.0
A87-198015	1.2	1.3	1.2		1.3	1.0	1.0
A87-297015	1.3	1.5	1.5		1.0	2.0	1.0
A87D20	1.3	1.5	1.7		1.2	1.3	1.0
C1732	1.5	1.8	1.7		1.7	1.7	1.3
C1736	1.7	1.9	3.0		2.3	1.7	1.3
E86315	1.3	1.6	1.9		1.5	1.3	1.0
E86339	1.5	1.5	1.9		1.7	1.7	1.3
E86348	1.4	1.4	1.7		1.3	2.0	1.0
HM8625	1.5	1.6	1.5		1.8	2.0	1.0
HM8734	1.9	2.3	2.9		2.5	2.2	2.3
HM8735	2.2	2.8	2.9		3.0	2.8	1.7
HS84-6247	1.7	1.9	1.8		2.0	1.7	2.0
LN84-8147	1.3	1.4	1.5		1.0	2.0	1.0
LN85-6253	1.6	2.1	1.9		2.3	1.7	1.3
LN85-6377	1.6	1.9	2.1		2.0	1.3	1.0
LN85-10234	1.8	2.2	2.1		2.0	1.7	2.3
LN85-10524	1.8	2.2	1.7		2.0	2.0	2.0
ORC 8502	1.3	1.5	2.1		1.8	1.0	1.0
U85-63023	1.5	1.6	2.7		1.8	1.3	1.0
U85-64055	1.8	2.2	2.8		2.2	2.0	1.3

UNIFORM TEST II, 1989

LODGING (score)

Strain	Bluff-ton IN	Lafay-ette IN	Britton MI	Saginaw MI	Lamber-ton MN	Waseca MN	Con-cord NE	Madi-son NE	Mead NE
BURLISON (L)	1.5	1.0	1.0	1.0	1.0	3.0	1.0	1.2	1.0
KENWOOD (II)	2.0	1.2	1.3	1.3	1.0	3.0	1.0	1.5	1.3
STURDY (I)	1.5	1.0	1.0	1.0	1.0	2.7	1.0	1.0	1.0
LN83-3824-1 (SCN)	1.7	1.3	2.5	1.5	1.0	3.0	1.0	1.8	1.8
A86-103002	1.5	1.0	1.0	1.0	1.0	1.7	1.0	1.0	1.0
A86-203034	2.0	1.3	2.0	2.0	1.0	3.7	1.0	2.0	1.5
A86-204022	1.5	1.0	2.0	2.0	1.0	3.0	1.0	1.5	1.0
A87-187007	1.8	1.0	1.3	1.0	1.0	3.0	1.0	1.5	1.0
A87-187020	1.3	1.0	1.0	1.0	1.0	2.7	1.0	1.0	1.0
A87-195032	1.5	1.3	1.8	1.5	1.0	3.7	1.0	1.8	1.5
A87-196014	1.7	1.2	1.5	1.5	1.0	2.0	1.0	1.3	1.0
A87-198015	1.0	1.0	1.0	1.0	1.0	2.3	1.0	1.0	1.0
A87-297015	1.0	1.0	1.8	1.0	1.0	2.3	1.0	1.2	1.0
A87D20	1.7	1.0	1.0	1.3	1.0	1.3	1.0	1.3	1.0
C1732	1.5	1.0	1.5	1.5	1.0	2.3	1.0	1.0	1.0
C1736	1.8	1.0	2.3	1.3	1.0	2.3	1.0	1.3	1.2
E86315	1.7	1.0	1.0	1.0	1.0	2.3	1.0	1.2	1.0
E86339	1.5	1.0	1.0	1.3	1.0	2.3	1.0	1.2	1.0
E86348	1.3	1.0	1.3	1.0	1.0	2.7	1.0	1.0	1.0
HM8625	1.5	1.0	1.5	1.3	1.0	2.0	1.0	1.2	1.0
HM8734	2.2	1.0	2.0	1.5	1.0	3.0	1.0	2.2	1.0
HM8735	2.7	1.0	2.5	1.8	1.0	4.0	1.0	2.0	1.7
HS84-6247	2.0	1.2	2.0	1.8	1.0	3.0	1.0	1.3	1.0
LN84-8147	1.5	1.0	1.3	1.0	1.0	2.7	1.0	1.0	1.0
LN85-6253	1.7	1.0	1.8	1.8	1.0	3.0	1.0	1.2	1.0
LN85-6377	1.3	1.0	1.5	1.5	1.0	3.0	1.0	1.7	1.2
LN85-10234	2.2	1.0	2.0	1.8	1.0	3.3	1.0	1.5	1.3
LN85-10524	2.2	1.0	2.0	1.0	1.0	3.7	1.0	2.0	1.0
ORC 8502	1.3	1.0	1.0	1.5	1.0	1.3	1.0	1.0	1.0
U85-63023	1.7	1.0	1.8	1.3	1.0	3.0	1.0	1.2	1.0
U85-64055	1.7	1.0	2.0	1.8	1.0	3.0	1.0	1.2	1.2

UNIFORM TEST II, 1989

LODGING (score)

Strain	Adel-phia NJ	Hoyt-ville OH	Wooster OH	Malden Ont.	Ridge-town Ont.	State College PA	Brook-ings SD	Center-ville SD	Arling-ton WI
BURLISON (L)	2.7	1.3	1.6	1.3		1.0	1.0	1.0	2.5
KENWOOD (II)	2.3	1.6	1.6	1.3		1.0	1.0	1.0	2.5
STURDY (I)	3.3	1.1	1.5	1.0		1.0	1.0	1.0	2.5
LN83-3824-1 (SCN)	3.3	1.7	2.2	2.5		1.0	1.0	1.0	3.2
A86-103002	2.3	1.3	1.5	1.0		1.0	1.0	1.0	1.5
A86-203034	3.3	1.4	1.9	2.8		1.0	1.0	1.0	4.0
A86-204022	2.7	1.3	1.7	1.3		1.0	1.0	1.0	3.3
A87-187007	3.0	1.3	1.8	1.2		1.0	1.0	1.0	3.3
A87-187020	3.3	1.1	1.4	1.0		1.0	1.0	1.0	1.5
A87-195032	3.3	1.4	1.7	2.2		1.0	1.0	1.0	4.2
A87-196014	2.7	1.3	1.5	1.3		1.0	1.0	1.0	3.3
A87-198015	1.7	1.2	1.6	1.0		1.0	1.0	1.0	1.0
A87-297015	2.0	1.1	1.6	1.5		1.0	1.0	1.0	1.8
A87D20	2.3	1.2	1.6	1.0		1.0	1.0	1.0	2.0
C1732	3.3	1.5	1.7	1.5		1.0	1.0	1.0	2.3
C1736	3.3	1.5	1.8	2.0		1.0	1.0	1.0	2.7
E86315	2.0	1.1	1.3	1.0		1.0	1.0	1.0	2.3
E86339	3.7	1.4	1.7	1.2		1.0	1.0	1.0	3.0
E86348	3.0	1.3	1.5	1.0		1.0	1.0	1.0	2.3
HM8625	3.3	1.2	1.7	1.2		1.0	1.0	1.0	2.2
HM8734	3.7	1.4	1.6	2.5		1.0	1.0	1.0	2.2
HM8735	4.7	1.5	1.7	3.0		1.0	1.0	1.0	3.2
HS84-6247	3.3	1.9	1.7	1.3		1.0	1.0	1.0	3.0
LN84-8147	2.3	1.1	1.6	1.0		1.0	1.0	1.0	2.2
LN85-6253	3.0	1.1	1.7	1.7		1.0	1.0	1.0	2.2
LN85-6377	3.3	1.2	1.8	1.3		1.0	1.0	1.0	2.3
LN85-10234	4.3	1.3	1.7	1.5		1.0	1.0	1.0	3.0
LN85-10524	4.0	1.2	1.7	1.5		1.0	1.0	1.0	2.7
ORC 8502	2.7	1.2	1.5	1.0		1.0	1.0	1.0	1.3
U85-63023	2.3	1.2	1.9	1.2		1.0	1.0	1.0	3.0
U85-64055	3.7	1.5	1.8	1.3		1.0	1.0	1.0	2.8

UNIFORM TEST II, 1989

PLANT HEIGHT (inches)

Strain	Mean 22 Tests	Ames IA	Halbur IA	Marshall-town IA	Dekalb IL	Gibson IL	Urbana IL
BURLISON (L)	32	35	36		34	37	30
KENWOOD (II)	34	39	38		40	40	33
STURDY (I)	33	40	40		35	34	33
LN83-3824-1 (SCN)	39	46	46		46	46	43
A86-103002	30	37	35		35	31	26
A86-203034	37	42	42		43	42	38
A86-204022	35	39	39		41	42	36
A87-187007	31	39	36		33	37	31
A87-187020	29	36	34		33	31	27
A87-195032	39	44	45		47	40	39
A87-196014	34	42	41		39	41	26
A87-198015	28	35	36		32	31	29
A87-297015	32	37	36		35	37	34
A87D20	32	39	37		36	39	32
C1732	33	39	39		36	39	37
C1736	37	42	39		42	41	41
E86315	32	38	37		35	34	33
E86339	31	36	35		34	34	32
E86348	33	38	37		39	38	35
HM8625	33	39	36		36	39	34
HM8734	35	40	39		36	41	38
HM8735	32	37	36		34	35	33
HS84-6247	33	39	39		37	35	35
LN84-8147	31	38	37		33	35	32
LN85-6253	35	42	41		37	40	36
LN85-6377	33	42	39		38	41	35
LN85-10234	35	39	42		39	43	38
LN85-10524	30	36	37		31	34	33
ORC 8502	35	43	40		36	35	39
U85-63023	31	38	36		33	36	34
U85-64055	39	48	46		44	41	40

UNIFORM TEST II, 1989

PLANT HEIGHT (inches)

Strain	Bluff-ton IN	Lafay-ette IN	Britton MI	Saginaw MI	Lamber-ton MN	Waseca MN	Con-cord NE	Madi-son NE	Mead NE
BURLISON (L)	27	32	31	30	29	42	29	28	33
KENWOOD (II)	26	32	36	33	29	46	26	36	37
STURDY (I)	27	29	35	31	29	43	27	35	39
LN83-3824-1 (SCN)	29	37	42	34	36	49	29	39	47
A86-103002	24	29	30	28	27	41	27	32	32
A86-203034	29	33	38	36	34	47	29	37	41
A86-204022	25	33	35	35	32	45	27	38	38
A87-187007	25	29	31	29	31	40	28	31	35
A87-187020	21	29	23	28	26	39	24	29	32
A87-195032	30	36	39	36	39	50	32	40	40
A87-196014	24	30	34	31	25	44	27	35	40
A87-198015	18	27	27	25	25	40	23	28	32
A87-297015	25	31	37	32	28	42	24	31	35
A87D20	27	31	30	29	27	41	25	33	35
C1732	26	30	38	34	30	43	24	34	35
C1736	30	34	41	36	31	47	31	36	39
E86315	27	28	33	31	30	45	25	36	34
E86339	26	29	32	29	26	41	25	31	31
E86348	28	33	32	32	27	44	26	33	34
HM8625	24	32	35	31	29	42	25	36	35
HM8734	27	33	37	34	32	47	30	35	37
HM8735	24	31	37	29	29	42	29	32	35
HS84-6247	27	30	36	32	31	44	27	32	36
LN84-8147	23	27	31	28	27	41	22	35	34
LN85-6253	25	33	35	33	30	47	29	37	40
LN85-6377	23	31	31	31	32	45	29	32	40
LN85-10234	30	31	37	32	32	46	28	38	41
LN85-10524	24	27	31	28	28	40	27	32	34
ORC 8502	26	34	37	33	31	44	27	34	38
U85-63023	25	25	34	30	27	40	28	32	31
U85-64055	28	36	40	38	33	50	30	40	47

UNIFORM TEST II, 1989

PLANT HEIGHT (inches)

Strain	Adel-phia NJ	Hoyt-ville OH	Wooster OH	Malden Ont.	Ridge-town Ont.	State College PA	Brook-ings SD	Center-ville SD	Arling-ton WI
BURLISON (L)	31	22	19	38		25	38	33	34
KENWOOD (II)	32	23	27	39		27	39	37	36
STURDY (I)	34	22	23	33		26	41	33	35
LN83-3824-1 (SCN)	42	27	27	47		28	44	41	41
A86-103002	30	21	18	33		21	33	33	32
A86-203034	39	23	25	42		29	39	36	40
A86-204022	38	26	23	35		28	39	34	38
A87-187007	31	21	24	33		23	36	33	36
A87-187020	31	20	19	28		23	38	33	32
A87-195032	36	24	25	44		35	48	40	43
A87-196014	34	23	21	41		30	41	36	38
A87-198015	29	16	24	29		20	37	32	30
A87-297015	31	23	22	39		26	37	34	36
A87D20	33	19	21	35		26	37	33	34
C1732	34	20	23	39		26	36	33	35
C1736	37	25	26	43		30	42	34	40
E86315	33	20	22	34		25	40	34	34
E86339	33	20	22	34		22	33	32	36
E86348	37	23	22	36		26	35	35	33
HM8625	36	21	24	38		27	39	34	34
HM8734	34	20	23	42		26	41	36	37
HM8735	34	22	23	38		26	36	35	35
HS84-6247	34	22	24	39		26	38	34	35
LN84-8147	32	20	20	34		26	37	33	31
LN85-6253	39	22	23	41		28	40	38	37
LN85-6377	24	23	24	37		27	39	38	34
LN85-10234	38	22	21	40		30	40	35	38
LN85-10524	25	19	18	34		25	41	34	30
ORC 8502	36	21	25	40		28	45	36	35
U85-63023	31	18	21	36		25	38	31	32
U85-64055	41	26	27	45		32	47	40	44

UNIFORM TEST II, 1989

SEED QUALITY (score)

Strain	Mean 20 Tests	Ames IA	Halbur IA	Marshall-town IA	Dekalb IL	Gibson IL	Urbana IL
BURLISON (L)	2.0	1.5	1.5		1.2	1.5	1.8
KENWOOD (II)	1.9	1.0	1.5		1.2	1.9	1.8
STURDY (I)	1.8	1.5	2.0		1.2	1.5	1.5
LN83-3824-1 (SCN)	2.2	2.5	2.0		1.2	2.8	2.0
A86-103002	2.0	2.0	1.5		1.2	2.6	1.9
A86-203034	2.1	2.5	2.0		1.2	2.4	1.7
A86-204022	2.2	1.5	1.5		1.2	1.8	1.8
A87-187007	2.1	3.0	2.5		1.4	2.1	1.9
A87-187020	1.8	2.0	1.5		1.2	1.6	1.4
A87-195032	1.9	2.0	2.0		1.2	1.8	1.5
A87-196014	1.7	1.5	1.5		1.2	1.8	1.3
A87-198015	1.6	1.0	1.0		1.2	1.9	1.2
A87-297015	2.1	2.5	1.5		1.2	1.8	1.8
A87D20	2.0	2.5	1.0		1.2	1.8	1.7
C1732	1.8	1.5	1.0		1.2	1.7	1.7
C1736	2.0	1.5	1.5		1.2	1.6	1.9
E86315	1.8	1.0	1.5		1.2	1.3	1.9
E86339	2.1	1.5	1.5		1.2	2.1	2.0
E86348	2.0	1.5	1.5		1.2	1.3	1.8
HM8625	1.9	1.0	1.0		1.2	1.6	1.7
HM8734	1.9	1.0	2.0		1.2	1.8	1.5
HM8735	1.8	1.5	1.5		1.2	1.6	1.4
HS84-6247	2.0	2.0	1.5		1.2	2.2	1.7
LN84-8147	1.9	1.5	1.0		1.2	1.6	1.3
LN85-6253	1.9	1.0	1.0		1.2	1.5	1.7
LN85-6377	2.1	1.5	2.0		1.2	2.0	1.8
LN85-10234	2.3	2.5	2.5		1.2	2.2	2.2
LN85-10524	1.8	2.0	1.5		1.2	1.5	1.4
ORC 8502	2.0	2.0	2.0		1.2	1.4	1.5
U85-63023	2.4	3.0	2.0		1.2	3.3	2.3
U85-64055	2.4	3.0	3.0		1.2	2.6	2.3

UNIFORM TEST II, 1989

SEED QUALITY (score)

Strain	Bluff-ton IN	Lafay-ette IN	Britton MI	Saginaw MI	Lamber-ton MN	Waseca MN	Con-cord NE	Madi-son NE	Mead NE
BURLISON (L)	1.0	1.5			1.3	1.3	3.0	1.3	2.3
KENWOOD (II)	1.0	1.5			1.3	1.3	1.7	1.7	2.7
STURDY (I)	1.0	2.5			1.7	1.3	2.0	1.5	2.0
LN83-3824-1 (SCN)	1.0	2.0			2.0	1.3	2.3	1.5	2.3
A86-103002	1.0	2.0			2.0	1.7	2.3	1.2	1.7
A86-203034	1.0	1.5			1.3	1.3	3.0	1.5	2.7
A86-204022	1.0	2.5			1.7	1.7	3.3	2.0	3.0
A87-187007	1.0	1.5			2.3	2.3	2.2	1.3	2.3
A87-187020	1.0	1.5			1.7	1.7	1.7	1.2	1.0
A87-195032	1.0	1.5			1.7	1.7	3.0	1.2	1.7
A87-196014	1.0	1.5			1.3	1.0	2.0	1.0	1.7
A87-198015	1.0	1.5			1.3	1.3	1.8	1.0	2.0
A87-297015	1.0	1.5			1.7	1.7	2.3	1.3	2.3
A87D20	1.0	1.5			1.7	1.7	2.3	1.3	2.0
C1732	1.0	1.5			1.7	1.3	3.0	1.3	2.3
C1736	1.0	1.5			1.3	1.7	3.0	1.7	2.0
E86315	1.0	1.5			1.3	1.7	2.3	1.5	1.7
E86339	1.0	1.5			1.3	2.0	2.7	2.2	1.7
E86348	1.0	1.5			1.3	1.7	2.7	1.5	2.0
HM8625	1.0	2.0			1.3	1.3	2.3	1.8	2.7
HM8734	1.0	1.5			1.3	1.3	1.8	1.8	2.3
HM8735	1.0	1.0			1.3	1.3	1.8	1.3	1.7
HS84-6247	1.0	1.0			1.3	1.3	2.7	1.8	3.0
LN84-8147	1.0	1.5			1.7	1.3	1.8	1.7	2.3
LN85-6253	1.0	1.5			1.0	1.7	1.8	1.8	2.3
LN85-6377	1.0	2.0			1.0	2.0	2.2	1.8	3.0
LN85-10234	1.0	1.5			1.3	2.0	2.3	2.7	2.7
LN85-10524	1.0	1.0			1.7	1.7	2.0	1.5	2.0
ORC 8502	1.0	1.5			2.0	1.3	2.0	1.7	2.0
U85-63023	1.0	2.0			1.7	2.0	3.7	1.8	2.3
U85-64055	1.0	2.0			2.3	2.0	3.0	1.7	2.7

UNIFORM TEST II, 1989

SEED QUALITY (score)

Strain	Adel-phia NJ	Hoyt-ville OH	Wooster OH	Malden Ont.	Ridge-town Ont.	State College PA	Brook-ings SD	Center-ville SD	Arling-ton WI
BURLISON (L)	3.3	2.2	1.2	3.0		2.0	3.0	3.0	2.3
KENWOOD (II)	4.0	2.6	1.4	2.0		2.0	2.0	3.0	2.0
STURDY (I)	3.0	2.5	1.4	1.0		2.0	2.0	3.0	1.7
LN83-3824-1 (SCN)	4.0	1.6	1.8	2.0		2.5	3.0	3.0	2.3
A86-103002	4.0	1.5	1.7	2.0		2.0	2.0	3.0	2.0
A86-203034	3.3	1.8	1.5	3.0		2.0	2.0	3.0	3.0
A86-204022	3.7	2.0	1.8	2.0		2.0	3.0	4.0	2.3
A87-187007	4.0	1.8	1.6	2.0		2.0	2.0	3.0	2.0
A87-187020	2.7	1.6	1.5	3.0		2.0	3.0	3.0	2.0
A87-195032	3.7	1.6	1.6	1.0		1.5	3.0	3.0	2.7
A87-196014	3.0	1.8	1.5	1.0		2.0	2.0	4.0	2.3
A87-198015	3.0	1.8	1.8	1.0		2.0	2.0	3.0	2.0
A87-297015	4.3	1.5	2.0	2.0		2.0	3.0	4.0	2.7
A87D20	3.7	1.6	1.7	2.0		2.0	3.0	4.0	2.0
C1732	2.7	1.5	1.2	1.0		2.0	3.0	3.0	2.7
C1736	3.3	1.5	1.3	2.0		2.5	3.0	4.0	2.7
E86315	4.0	1.7	1.3	1.0		2.0	2.0	3.0	2.7
E86339	4.3	2.0	1.9	2.0		2.0	3.0	4.0	2.7
E86348	4.0	1.6	2.2	2.0		2.0	3.0	3.0	3.0
HM8625	3.3	1.5	1.6	2.0		2.0	2.0	3.0	3.0
HM8734	3.0	1.8	1.7	2.0		2.0	3.0	3.0	2.3
HM8735	3.7	1.5	1.5	2.0		2.5	2.0	3.0	2.3
HS84-6247	3.3	1.8	1.7	1.0		2.0	2.0	4.0	2.7
LN84-8147	4.3	1.7	1.3	2.0		1.5	2.0	4.0	2.3
LN85-6253	4.7	1.7	1.8	2.0		2.0	3.0	3.0	3.0
LN85-6377	4.3	2.3	1.7	1.0		2.5	3.0	3.0	2.7
LN85-10234	4.0	2.0	1.2	1.0		2.0	4.0	5.0	2.7
LN85-10524	3.7	1.6	1.3	2.0		2.0	2.0	3.0	2.3
ORC 8502	3.0	2.2	1.7	2.0		2.5	3.0	3.0	2.0
U85-63023	2.7	2.0	2.5	1.0		2.0	3.0	5.0	2.7
U85-64055	4.0	1.8	2.6	1.0		2.5	4.0	4.0	2.0

UNIFORM TEST II, 1989

SEED SIZE (g/100)

Strain	Mean 22 Tests	Ames IA	Halbur IA	Marshall-town IA	Dekalb IL	Gibson IL	Urbana IL
BURLISON (L)	17.9	18.5	18.4		20.5	17.8	17.3
KENWOOD (II)	15.2	15.2	15.0		15.5	15.7	16.5
STURDY (I)	17.9	17.9	17.8		19.9	18.2	19.0
LN83-3824-1 (SCN)	14.4	14.5	13.7		14.9	16.6	14.4
A86-103002	17.1	17.0	16.2		17.9	19.3	18.7
A86-203034	18.5	19.2	17.3		18.8	19.7	19.3
A86-204022	18.0	18.9	17.9		18.4	20.6	19.8
A87-187007	15.8	16.1	15.3		16.8	16.0	16.1
A87-187020	15.3	15.5	15.5		16.1	15.7	14.5
A87-195032	16.0	16.9	16.0		16.0	17.8	15.8
A87-196014	14.9	14.9	14.9		14.9	17.3	15.8
A87-198015	14.7	14.5	13.7		14.2	15.9	15.5
A87-297015	17.4	17.4	16.6		18.5	18.3	17.3
A87D20	15.8	15.8	16.3		16.2	17.8	15.6
C1732	18.4	19.5	17.9		17.5	20.5	20.1
C1736	16.3	17.0	16.3		16.7	17.0	16.5
E86315	17.3	17.5	17.4		19.0	19.6	18.2
E86339	16.8	17.3	17.6		17.6	17.4	17.3
E86348	17.4	18.6	17.3		17.7	17.8	18.3
HM8625	19.3	19.7	19.1		20.5	22.2	21.8
HM8734	15.4	15.6	15.0		15.6	16.0	15.4
HM8735	15.2	15.3	14.7		15.5	15.9	16.1
HS84-6247	18.2	18.0	17.5		18.9	19.3	20.8
LN84-8147	17.6	18.4	16.9		17.6	19.1	19.0
LN85-6253	15.8	16.8	16.3		16.3	17.7	16.3
LN85-6377	15.5	16.4	15.8		14.7	17.1	17.0
LN85-10234	16.8	18.0	16.8		17.0	18.1	17.8
LN85-10524	14.6	15.4	14.3		14.1	16.1	15.8
ORC 8502	18.1	18.3	18.2		18.7	18.2	20.0
U85-63023	18.4	20.1	18.7		18.5	20.1	21.7
U85-64055	18.5	20.1	19.3		18.3	19.5	19.0

UNIFORM TEST II, 1989

SEED SIZE (g/100)

Strain	Bluff-ton IN	Lafay-ette IN	Britton MI	Saginaw MI	Lamber-ton MN	Waseca MN	Con-cord NE	Madi-son NE	Mead NE
BURLISON (L)	18.6	18.3	19.5	16.7	17.5	19.1	17.0	17.7	17.6
KENWOOD (II)	17.0	14.5	15.5	15.4	14.9	15.4	15.3	15.7	14.8
STURDY (I)	18.7	16.7	18.7	19.0	17.6	18.5	17.8	18.4	18.7
LN83-3824-1 (SCN)	15.8	15.5	15.4	13.1	13.9	13.8	14.7	14.0	14.6
A86-103002	18.1	16.6	18.2	17.4	16.7	17.5	16.7	17.3	16.6
A86-203034	18.5	19.6	19.4	17.8	19.7	18.7	19.4	18.1	18.8
A86-204022	16.9	18.5	19.9	15.9	17.9	17.7	18.6	18.1	18.5
A87-187007	16.7	16.5	16.2	15.5	16.6	15.9	16.3	15.4	16.8
A87-187020	17.4	15.3	14.6	15.7	16.0	15.2	14.9	15.5	17.2
A87-195032	17.0	15.9	16.1	15.0	16.8	16.9	17.4	15.2	16.2
A87-196014	15.7	15.4	14.9	14.0	15.5	15.9	15.3	15.2	15.8
A87-198015	15.7	14.3	14.1	14.3	15.5	16.4	16.0	15.7	15.6
A87-297015	18.0	17.1	19.4	15.5	18.1	18.0	19.1	18.1	17.0
A87D20	16.9	15.4	15.5	15.3	15.6	15.2	17.1	15.1	15.3
C1732	18.3	19.4	19.4	16.0	18.4	18.8	19.6	19.2	18.3
C1736	17.4	17.0	17.7	14.2	16.4	16.2	18.2	16.2	16.1
E86315	17.8	18.1	17.4	17.1	17.2	18.4	18.1	15.9	18.6
E86339	18.2	16.5	17.0	17.3	17.9	17.2	17.1	16.8	17.0
E86348	17.1	17.8	17.7	16.2	19.9	18.7	18.7	17.2	17.8
HM8625	19.0	20.3	20.8	17.8	20.9	20.1	19.9	19.3	19.8
HM8734	16.6	15.0	16.6	14.8	15.1	16.1	15.2	16.1	15.4
HM8735	16.5	14.1	14.9	15.1	15.9	16.2	14.9	15.6	15.5
HS84-6247	18.4	19.7	19.6	16.8	18.0	19.3	19.4	18.3	17.9
LN84-8147	18.4	17.8	17.7	16.2	18.6	19.2	18.5	17.9	17.8
LN85-6253	15.8	16.6	16.7	14.7	15.9	16.8	15.8	16.3	16.4
LN85-6377	15.9	16.1	16.2	13.8	16.2	16.4	16.8	15.6	15.8
LN85-10234	16.5	16.4	18.2	15.0	17.6	17.4	17.9	17.0	17.0
LN85-10524	15.4	14.4	14.9	13.7	15.6	16.4	15.2	14.1	15.1
ORC 8502	19.4	18.1	18.4	19.9	16.7	18.5	18.5	19.0	19.3
U85-63023	19.7	16.6	18.2	17.4	19.8	20.1	19.4	19.2	19.1
U85-64055	19.3	18.8	19.5	18.2	19.1	18.8	18.9	18.2	20.6

UNIFORM TEST II, 1989

SEED SIZE (g/100)

Strain	Adel-phia NJ	Hoyt-ville OH	Wooster OH	Malden Ont.	Ridge-town Ont.	State College PA	Brook-ings SD	Center-ville SD	Arling-ton WI
BURLISON (L)	20.3	15.2	17.5	19.6		17.9	16.0	16.2	16.3
KENWOOD (II)	16.3	13.1	15.4	15.1		15.4	14.1	13.8	14.6
STURDY (I)	17.7	15.5	18.2	16.6		19.1	17.0	15.8	18.0
LN83-3824-1 (SCN)	15.7	12.5	15.3	15.5		14.6	12.7	13.1	12.9
A86-103002	18.0	14.0	16.9	17.0		17.6	16.8	16.1	15.5
A86-203034	19.0	14.8	17.9	20.5		19.5	16.4	17.5	16.4
A86-204022	19.0	14.0	18.4	19.4		17.6	16.3	17.2	15.4
A87-187007	17.3	14.6	15.4	14.2		14.9	15.2	15.3	14.7
A87-187020	15.7	13.7	13.9	14.1		15.6	15.0	14.4	14.7
A87-195032	15.7	13.0	15.4	17.6		16.4	16.1	14.7	14.3
A87-196014	16.3	11.7	13.4	14.7		14.7	14.2	14.2	14.0
A87-198015	15.3	12.7	14.4	12.9		14.3	14.7	14.8	13.2
A87-297015	17.7	15.2	18.4	18.8		17.1	16.3	15.0	15.3
A87D20	15.7	14.5	15.5	15.8		17.5	15.7	15.0	14.9
C1732	18.7	13.8	19.2	20.4		19.7	16.6	17.5	15.3
C1736	17.0	13.6	15.3	17.2		17.1	15.0	15.8	14.1
E86315	15.7	14.8	16.9	15.9		16.9	16.5	15.8	16.8
E86339	16.7	14.8	15.2	15.1		16.5	15.8	15.8	16.9
E86348	16.0	14.9	17.7	17.5		17.8	16.4	16.5	15.8
HM8625	20.7	14.8	18.7	20.0		17.9	17.4	17.6	17.2
HM8734	16.0	13.2	14.7	19.6		15.4	14.1	14.1	13.9
HM8735	15.7	13.9	13.9	14.7		15.3	14.6	14.4	14.9
HS84-6247	19.0	14.8	17.4	19.6		17.2	16.3	17.2	16.7
LN84-8147	18.3	14.9	17.4	17.3		18.2	16.3	16.9	15.8
LN85-6253	17.0	12.3	14.0	17.2		16.5	15.1	13.9	14.1
LN85-6377	16.7	13.2	14.9	16.1		14.3	15.4	14.4	13.2
LN85-10234	18.7	13.3	16.2	18.2		17.5	15.7	15.6	14.4
LN85-10524	15.7	10.7	13.1	15.1		14.4	14.8	14.2	13.1
ORC 8502	19.3	16.4	17.7	17.0		17.6	16.6	15.7	16.6
U85-63023	18.0	14.3	18.0	18.1		17.3	18.3	16.5	16.2
U85-64055	18.0	16.0	18.0	18.6		18.8	16.2	17.3	16.9

UNIFORM TEST II, 1989

PROTEIN (%)

Strain	Mean 5 Tests	Ames IA	Urbana IL	Lafayette IN	Waseca MN	Wooster OH
BURLISON (L)	40.7	42.0	41.3	40.5	40.4	39.5
KENWOOD (II)	37.3	37.4	37.4	36.6	37.0	38.0
STURDY (I)	38.2	38.4	37.9	38.9	37.2	38.8
LN83-3824-1 (SCN)	38.0	38.9	38.0	38.4	36.8	37.7
A86-103002	39.9	40.1	41.3	40.3	38.4	39.6
A86-203034	38.1	39.2	39.5	37.8	37.7	36.2
A86-204022	37.7	40.0	37.1	37.6	37.0	36.6
A87-187007	38.0	38.7	38.1	39.0	36.8	37.5
A87-187020	36.8	36.7	36.1	37.9	37.5	35.9
A87-195032	36.1	37.9	35.4	36.4	35.4	35.5
A87-196014	37.2	37.6	37.2	37.6	37.8	35.6
A87-198015	38.0	36.8	36.6	37.7	38.2	40.6
A87-297015	38.0	38.4	39.6	36.7	37.4	38.1
A87D20	37.6	38.9	37.8	37.2	36.9	37.1
C1732	41.0	42.1	41.6	40.3	40.3	40.6
C1736	38.9	40.2	39.2	38.4	39.0	37.6
E86315	38.0	37.7	37.8	38.6	37.4	38.3
E86339	37.4	38.3	35.3	38.7	38.2	36.7
E86348	36.8	37.3	36.2	37.5	36.0	37.2
HM8625	38.4	38.9	39.6	38.0	36.9	38.5
HM8734	39.2	40.1	38.9	39.4	38.5	39.0
HM8735	40.4	40.2	40.8	40.4	39.8	40.7
HS84-6247	37.6	37.8	39.1	37.7	37.0	36.5
LN84-8147	37.9	38.1	38.2	38.8	37.0	37.2
LN85-6253	38.8	39.6	38.6	39.4	38.1	38.2
LN85-6377	39.1	39.9	39.5	39.8	38.1	38.1
LN85-10234	38.8	38.5	39.8	39.4	37.6	38.6
LN85-10524	38.4	39.6	37.5	39.3	39.3	36.4
ORC 8502	38.9	39.8	39.1	38.5	37.7	39.2
U85-63023	39.6	40.0	40.1	38.6	39.1	40.3
U85-64055	38.0	39.1	37.1	37.5	38.1	38.1

UNIFORM TEST II, 1989

OIL (%)

Strain	Mean 5 Tests	Ames IA	Urbana IL	Lafayette IN	Waseca MN	Wooster OH
BURLISON (L)	19.3	18.7	19.2	19.3	18.7	20.6
KENWOOD (II)	21.5	20.4	22.5	21.2	21.8	21.4
STURDY (I)	20.9	20.6	21.6	20.6	21.0	20.8
LN83-3824-1 (SCN)	21.0	20.9	21.5	20.8	20.4	21.5
A86-103002	20.3	19.4	20.1	20.3	20.9	20.7
A86-203034	20.6	19.7	20.2	21.1	20.9	21.3
A86-204022	21.2	19.6	22.1	21.2	21.3	21.8
A87-187007	20.9	20.1	21.3	20.2	21.7	21.3
A87-187020	21.9	21.4	22.5	21.7	22.0	22.1
A87-195032	21.5	20.3	22.3	21.9	21.7	21.4
A87-196014	21.5	21.4	21.6	21.3	21.7	21.3
A87-198015	21.7	22.3	22.5	21.1	21.6	20.8
A87-297015	21.0	20.3	21.4	21.6	20.5	21.2
A87D20	21.3	20.4	21.4	21.6	21.4	21.5
C1732	19.8	18.8	19.9	19.9	20.0	20.4
C1736	20.7	19.3	21.1	21.2	20.6	21.1
E86315	21.0	20.6	20.9	21.2	21.7	20.7
E86339	21.6	20.7	22.6	21.0	21.6	22.1
E86348	21.5	20.7	21.3	21.8	21.6	21.9
HM8625	21.7	21.3	21.5	22.3	21.4	22.2
HM8734	20.9	19.9	21.8	21.4	20.8	20.6
HM8735	20.7	20.1	20.9	20.5	21.2	20.9
HS84-6247	21.8	20.8	21.8	22.3	21.4	22.7
LN84-8147	21.1	20.6	21.3	21.7	20.2	21.7
LN85-6253	20.6	19.5	20.9	21.8	20.5	20.5
LN85-6377	21.3	20.5	21.5	22.6	20.6	21.3
LN85-10234	19.8	19.1	19.6	20.6	19.9	19.7
LN85-10524	21.4	21.0	21.2	21.8	21.7	21.4
ORC 8502	21.3	20.7	21.7	21.3	21.6	21.3
U85-63023	20.4	20.0	20.7	20.8	19.7	20.7
U85-64055	21.2	20.0	21.8	22.1	20.6	21.5

UNIFORM PRELIMINARY TEST IIA, 1989

Strain	Parentage	Generation Composited	Unique Traits
Burlison (L)	K74-113-76-486 x Century	F5	Rps1-b, Rps3
Kenwood (II)	Elgin x Asgrow A1937	F5	
Sturdy (L)	M70-127 x Century	F5	
A88-221005	A82-267015 x Sherman	F5	
A88-221011	LN80-7603 x Sherman	F5	BSR Resis.
A88-221013	LN80-8653 x Harper	F5	BSR Resis.
A88-221020	A82-267015 x Harper	F5	
A88-221026	A82-267015 x Sherman	F5	
A88-221029	Riverside 2024 x Harper	F5	
C1756	C1622 x Harper	F6	
C1757	C1627 x Harper	F6	
C1761	C1627 x CX782-257-3-1	F6	
C1763	C1627 x CX782-257-3-1	F6	
C1764	Sparks x Century	F6	
C1765	Sparks x Harper	F6	
C1772	Winchester x A81-257031	F6	Rps3
E87012	A81-155006 x Glenwood		
E87053	Evans x A80-147002	F3	
E87095	BSR 101 x HW8039	F3	
E87127	HW8039 x BSR 201	F3	
E87202	Corsoy 79 x HW8123	F3	
E87223	HW8123 x LN80-10508	F3	
HS86-7619	L76-0474 x A78-123018	F3	Mod. Resis. to leaf insects
HS87-4017	Century 84 x HW8008	F5	Rps1-k
HS87-4020	Century 84 x HW8008	F5	Rps1-k
HS87-4087	A81-156027 x (Asgrow A3127[4] x Williams 82)	F5	Rps1-k
M85-647	Ozzie x Fayette	F4	Rps1, SCN 3,4
M85-1292	BSR 201 x Dawson	F5	Rps1
ORC 8801	Pride B152 x T8112	F5	
ORC 8805	A80-147002 x B152	F5	
SD87005	Amsoy x HE78-245		
W87-23	Hodgson 87 x Wells II	F4	
W87-211	Wayne x L78-189	F5	

UNIFORM PRELIMINARY TEST IIA, 1989

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	Chlorosis Score Ames	Shattering Score Manhattan	BSR - Ames Plant n %	BSR - Ames Stem n %
BURLISON (L)	WTTSBlI	2.0	1	100.0	97.5
KENWOOD (II)	PTBSBlI	4.7	2	100.0	91.1
STURDY (I)	PGBSIbI	3.0	2	100.0	83.5
A88-221005	WGBDBfI	4.0	1	100.0	93.2
A88-221011	WGBSBfI	4.8	1	100.0	93.3
A88-221013	PGBDIbI	2.7	2	90.0	59.0
A88-221020	WGBDYI	2.8	1	100.0	66.4
A88-221026	WGBDYI	4.5	1	100.0	90.2
A88-221029	PTBSIbI	3.5	1	100.0	82.5
C1756	PTBSBlI	4.2	1	100.0	62.1
C1757	PTBDBlI	4.7	2	100.0	54.5
C1761	PGBDIbI	4.0	1	100.0	88.6
C1763	PTBDBlI	3.3	1	100.0	91.2
C1764	PTBSBlI	3.3	2	100.0	91.5
C1765	PTBDBlI	2.5	2	100.0	56.6
C1772	WTBDGI	4.2	2	100.0	88.9
E87012	PTBSBl+GI	4.7	2	90.0	71.0
E87053	WGBSYI	4.8	2	100.0	97.8
E87095	PGTSIbI	4.3	2	100.0	84.0
E87127	WG+TTDBf+BlI	5.0	2	100.0	73.7
E87202	WGBDBf+YI	3.2	1	100.0	89.9
E87223	PGBDIbI	4.3	2	100.0	100.0
HS86-7619	PGBDBfI	4.3	4	100.0	78.7
HS87-4017	PTBDBlI	2.2	2	100.0	96.1
HS87-4020	PTBSBlI	3.0	3	100.0	100.0
HS87-4087	WTBDBrI	4.0	1	100.0	78.9
M85-647	WGTDYI	4.0	1	100.0	93.5
M85-1292	WGBDYI	3.3	1	100.0	98.5
ORC 8801	PGBDYI	3.5	1	100.0	85.6
ORC 8805	PGBDBfI	4.7	2	100.0	100.0
SD87005	PG+TSHetI	3.2	1	100.0	97.5
W87-23	PGBDIbI	4.0	1	100.0	90.0
W87-211	PTBDBlI	4.2	3	100.0	95.0

UNIFORM PRELIMINARY TEST IIA, 1989

DISEASE DATA

Strain	PR		PS	PSB	SMV
	Ames	Urbana	Lafayette		
	Race 4	Race	a	n	a
	Reaction	1	%	%	Score
BURLISON (L)	R	R	28	28	3E
KENWOOD (II)	S	S	39	62	3E
STURDY (I)	S	R	10	70	4E
A88-221005	S	M	4	54	2M
A88-221011	S	R	58	10	2M
A88-221013	H	M	46	14	3E
A88-221020	H	S	10	4	4M
A88-221026	H	S	24	28	5E
A88-221029	S	S	34	14	5E
C1756	S	S	40	12	3M
C1757	S	M	50	6	2E
C1761	S	S	54	14	5M
C1763	S	S	34	32	5E
C1764	S	R	16	70	4E
C1765	S	R	14	62	2E
C1772	R	R	32	32	5E
E87012	S	M	48	32	5E
E87053	S	R	70	20	5S
E87095	H	M	42	36	4E
E87127	H	R	60	8	3M
E87202	H	M	28	38	3E
E87223	S	R	34	56	3E
HS86-7619	S	R	48	28	2M
HS87-4017	R	R	38	46	3E
HS87-4020	R	R	42	24	5E
HS87-4087	R	R	40	8	3E
M85-647	S	M	32	16	2E
M85-1292	S	R	50	12	5E
ORC 8801	S	R	44	16	5S
ORC 8805	S	R	40	24	4M
SD87005	S	S	52	8	5E
W87-23	S	R	58	18	4M
W87-211	R	R	86	22	5M

UNIFORM PRELIMINARY TEST IIA, 1989

REGIONAL SUMMARY

Strain	Yield	Rank	Maturity	Lodging	Plant Height	Seed Quality	Seed Size	Composition	
								Protein	Oil
No. of Tests	12	12	8	12	11	11	11	3	3
	bu/a	No.	Date	Score	In.	Score	g/100	%	%
BURLISON (L)	46.3	23	6.6	1.3	32	1.8	18.0	41.2	19.4
KENWOOD (II)	49.7	2	09/21*	1.6	33	2.0	14.8	38.2	21.5
STURDY (I)	48.0	9	-2.9	1.4	32	2.1	18.0	39.5	20.9
A88-221005	48.3	6	3.6	1.2	31	1.9	15.5	40.6	21.2
A88-221011	47.3	15	2.8	1.2	29	1.7	16.4	39.4	21.2
A88-221013	47.4	12	1.0	1.4	32	2.1	18.1	39.1	20.7
A88-221020	48.8	4	7.5	1.5	32	2.2	15.9	39.5	20.9
A88-221026	46.5	21	1.1	1.8	35	2.3	14.4	40.0	20.3
A88-221029	46.5	21	0.6	1.5	32	2.4	17.4	39.2	20.9
C1756	44.6	27	0.4	1.6	33	2.4	17.9	38.9	21.2
C1757	47.3	15	2.8	1.3	33	2.1	17.8	39.0	21.0
C1761	46.0	24	1.3	1.4	31	2.6	16.9	40.2	20.5
C1763	44.9	26	3.3	1.5	31	2.3	17.7	39.2	21.1
C1764	48.1	7	3.5	1.5	36	2.2	18.2	40.4	20.1
C1765	47.4	12	5.3	1.7	36	2.0	18.2	39.3	20.0
C1772	47.8	10	3.8	1.6	33	1.8	17.5	39.3	20.8
E87012	45.6	25	-2.8	1.8	33	2.3	16.3	39.7	21.2
E87053	43.4	30	-2.5	1.7	35	2.6	16.2	38.8	21.0
E87095	47.2	17	-2.3	1.4	32	2.5	18.2	38.7	20.4
E87127	46.9	18	2.9	1.8	34	2.1	16.5	39.2	21.1
E87202	46.8	19	-1.0	1.7	35	2.1	16.6	40.3	20.5
E87223	49.6	3	1.4	1.5	32	2.1	15.4	39.5	20.4
HS86-7619	39.4	32	-6.6	2.1	37	2.2	13.0	40.0	20.6
HS87-4017	47.6	11	1.4	1.6	33	2.2	17.7	40.2	21.1
HS87-4020	47.4	12	0.3	1.6	33	2.0	18.4	39.8	20.6
HS87-4087	48.1	7	4.4	1.5	35	1.9	16.0	39.2	20.1
M85-647	44.2	28	-0.8	1.9	31	2.0	14.3	40.6	21.3
M85-1292	46.7	20	-2.5	1.6	32	2.0	14.8	37.9	21.3
ORC 8801	48.6	5	1.1	1.9	31	2.3	16.4	38.5	21.3
* ORC 8805	49.9	1	-0.6	1.3	31	2.7	16.7	40.2	20.6
SD87005	37.0	33	-0.8	1.6	32	2.2	14.9	40.6	21.4
W87-23	41.8	31	-3.3	1.3	31	2.5	15.4	39.2	21.9
W87-211	44.0	29	-3.6	1.6	36	2.3	17.3	41.8	20.3

*122.5 Days After Planting

UNIFORM PRELIMINARY TEST IIA, 1989

YIELD (bu/a)

Strain	Mean 12 Tests	Ames IA	Marshall-town IA	Urbana IL	Lafay-ette IN	Britton MI
BURLISON (L)	46.3	48.4	53.8	55.9	50.3	60.6
KENWOOD (II)	49.7	53.9	56.5	56.2	43.8	67.9
STURDY (I)	48.0	50.0	54.1	57.0	37.7	62.4
A88-221005	48.3	54.8	53.3	63.4	42.4	56.7
A88-221011	47.3	49.3	51.5	61.1	41.5	61.4
A88-221013	47.4	53.5	60.4	67.5	42.0	51.2
A88-221020	48.8	54.7	54.5	60.6	48.1	57.6
A88-221026	46.5	52.8	47.5	63.2	42.9	58.5
A88-221029	46.5	54.3	52.6	55.1	44.1	54.8
C1756	44.6	50.2	52.3	43.6	47.3	43.3
C1757	47.3	52.1	58.1	61.8	43.1	59.7
C1761	46.0	52.0	49.2	55.4	40.7	61.0
C1763	44.9	49.9	46.8	53.2	48.2	59.4
C1764	48.1	46.7	52.7	66.8	48.3	60.9
C1765	47.4	49.2	52.8	61.7	49.6	64.9
C1772	47.8	48.6	49.6	59.2	46.4	64.0
E87012	45.6	47.1	63.0	49.3	39.5	62.1
E87053	43.4	49.7	48.0	53.9	33.5	62.1
E87095	47.2	48.2	48.9	61.5	44.8	57.8
E87127	46.9	47.8	52.5	65.9	42.1	67.7
E87202	46.8	48.3	46.5	52.9	46.4	65.7
E87223	49.6	56.8	54.6	62.6	42.9	68.7
HS86-7619	39.4	41.1	39.1	45.6	40.0	51.7
HS87-4017	47.6	51.0	54.7	61.5	42.5	61.0
HS87-4020	47.4	49.3	53.3	62.8	41.1	61.6
HS87-4087	48.1	51.2	55.3	60.2	48.1	58.4
M85-647	44.2	47.8	53.0	51.7	43.3	55.6
M85-1292	46.7	53.4	48.2	58.3	39.7	61.9
ORC 8801	48.6	47.9	57.7	61.5	48.0	64.5
ORC 8805	49.9	54.1	56.0	63.4	41.7	67.9
SD87005	37.0	43.8	45.5	28.7	42.0	20.1
W87-23	41.8	51.8	45.6	50.6	39.9	37.2
W87-211	44.0	45.2	45.8	56.0	37.4	61.0
C.V. (%)		7.0	3.7	7.3	8.8	7.7
L.S.D. (5%)		7.0	3.8	8.5	7.7	9.2
Row Sp. (In.)		27	27	30	24	20
Rows/Plot		4	4	4	4	4
Reps		2	2	2	2	4

UNIFORM PRELIMINARY TEST IIA, 1989

YIELD (bu/a)

Strain	Concord NE	Mead NE	Adelphia NJ	Hoytville OH	Ridge-town Ont.	Center-ville SD	Arling-ton WI
BURLISON (L)	19.9	49.3	46.4	23.3	40.9	42.1	38.1
KENWOOD (II)	32.5	56.2	42.9	32.4	47.6	46.3	43.5
STURDY (I)	27.6	55.8	39.6	29.5	48.8	40.5	53.1
A88-221005	19.6	56.3	47.0	29.8	41.2	40.3	45.9
A88-221011	26.4	55.3	48.2	26.2	45.0	34.6	45.8
A88-221013	25.6	49.8	49.4	22.5	43.7	39.4	42.4
A88-221020	21.2	55.5	48.4	29.3	40.0	40.3	47.3
A88-221026	24.0	46.1	41.5	30.8	50.3	39.7	37.9
A88-221029	27.1	51.4	42.4	29.4	51.1	37.9	38.9
C1756	20.5	49.6	44.6	30.4	47.9	39.1	42.8
C1757	24.9	51.3	45.5	30.1	42.7	38.3	37.6
C1761	19.7	61.3	50.0	22.4	45.5	33.3	35.4
C1763	21.8	44.7	40.8	24.1	45.4	40.6	41.2
C1764	21.9	46.2	50.2	33.1	44.2	40.5	39.5
C1765	20.2	54.0	44.6	23.3	45.8	37.2	38.6
C1772	21.8	52.9	52.3	29.4	39.0	42.3	41.9
E87012	24.3	49.5	32.6	24.5	49.2	37.4	47.7
E87053	19.1	39.0	30.8	36.7	46.2	32.8	44.3
E87095	27.4	55.7	41.1	33.9	48.4	42.0	37.2
E87127	17.7	47.1	42.6	29.2	44.4	38.1	38.5
E87202	24.8	51.6	40.9	25.1	49.1	39.7	48.8
E87223	26.0	46.8	39.9	39.7	47.5	42.8	43.5
HS86-7619	25.2	38.1	38.4	29.1	42.9	27.5	40.3
HS87-4017	20.0	51.3	43.7	28.7	50.2	38.9	39.9
HS87-4020	17.2	52.1	41.2	26.0	52.6	43.8	37.6
HS87-4087	20.3	54.9	45.8	32.9	48.7	33.9	39.9
M85-647	21.4	35.2	41.3	29.4	40.2	39.6	49.6
M85-1292	26.8	51.9	37.8	25.6	50.2	41.7	44.8
ORC 8801	25.1	55.3	47.2	24.0	45.7	40.2	42.2
ORC 8805	26.7	59.0	43.1	26.9	46.2	43.9	47.1
SD87005	22.5	48.0	43.0	21.0	41.7	36.0	37.6
W87-23	25.7	53.1	42.2	22.0	37.3	38.9	40.7
W87-211	22.4	47.6	33.2	28.5	46.0	35.1	48.6
C.V. (%)	17.6	12.7	17.2	18.6	10.9	9.3	9.4
L.S.D. (5%)	8.3	13.1	12.6	10.8	10.2	7.2	8.1
Row Sp. (In.)	30	30	30	30	24	30	30
Rows/Plot	4	4	4	4	4	4	4
Reps	2	2	2	2	2	2	2

UNIFORM PRELIMINARY TEST IIA, 1989

YIELD RANK

Strain	Yield Rank	Ames IA	Marshall-town IA	Urbana IL	Lafay-ette IN	Britton MI
BURLISON (L)	23	22	10	21	1	19
KENWOOD (II)	2	6	3	19	13	3
STURDY (I)	9	15	9	18	29	9
A88-221005	6	2	11	3	19	26
A88-221011	15	18	19	13	23	14
A88-221013						
A88-221020	4	3	8	14	5	25
A88-221026	21	8	25	5	16	22
A88-221029	21	4	16	23	12	28
C1756	27	14	18	30	8	30
C1757	15	9	1	8	15	20
C1761	24	10	21	22	25	15
C1763	26	16	26	25	4	21
C1764	7	28	15	1	3	18
C1765	12	20	14	9	2	7
C1772	10	21	20	16	9	8
E87012						
E87053	30	17	24	24	33	10
E87095	17	24	22	10	11	24
E87127	18	26	17	2	20	4
E87202	19	23	27	26	9	6
E87223	3	1	7	7	16	1
HS86-7619	32	31	31	29	26	29
HS87-4017	11	13	6	10	18	17
HS87-4020	12	18	11	6	24	13
HS87-4087	7	12	5	15	5	23
M85-647	28	26	13	27	14	27
M85-1292	20	7	23	17	28	12
ORC 8801	5	25	2	10	7	5
ORC 8805	1	5	4	3	22	2
SD87005	33	30	30	31	21	32
W87-23	31	11	29	28	27	31
W87-211	29	29	28	20	30	16

UNIFORM PRELIMINARY TEST IIA, 1989

YIELD RANK

Strain	Concord NE	Mead NE	Adelphia NJ	Hoytville OH	Ridge-town Ont.	Center-ville SD	Arling-ton WI
BURLISON (L)	26	21	8	28	27	6	25
KENWOOD (II)	1	4	16	6	11	1	11
STURDY (I)	2	5	27	11	7	10	1
A88-221005	28	3	7	10	26	13	7
A88-221011	7	8	5	21	20	27	8
A88-221013							
A88-221020	21	7	4	15	29	12	5
A88-221026	14	27	20	7	3	15	26
A88-221029	4	17	18	12	2	23	22
C1756	22	20	11	8	10	18	13
C1757	12	18	10	9	24	21	27
C1761	27	1	3	29	18	29	31
C1763	18	28	25	25	19	9	16
C1764	17	26	2	4	22	10	21
C1765	24	11	11	27	16	24	23
C1772	18	13	1	12	30	5	15
E87012							
E87053	29	29	31	1	13	30	10
E87095	3	6	23	3	9	7	30
E87127	30	24	17	16	21	22	24
E87202	3	16	24	24	6	15	3
E87223	8	25	26	1	12	4	11
HS86-7619	10	30	28	17	23	31	18
HS87-4017	25	19	13	18	4	19	19
HS87-4020	31	14	22	22	1	3	27
HS87-4087	23	10	9	5	8	28	19
M85-647	20	31	21	12	28	17	2
M85-1292	5	15	29	23	4	8	9
ORC 8801	11	8	6	26	17	14	14
ORC 8805	6	2	14	20	13	2	6
SD87005	15	22	15	31	25	25	27
W87-23	9	12	19	30	31	19	17
W87-211	16	23	30	19	15	26	4

UNIFORM PRELIMINARY TEST IIA, 1989

MATURITY (date)

Strain	Mean 8 Tests	Ames IA	Marshall-town IA	Urbana IL	Lafay-ette IN	Britton MI
BURLISON (L)	6.6	3		8	5	9
KENWOOD (II)	09/21	09/22		09/16	09/13	09/22
STURDY (I)	-2.9	-2		-8	-6	-6
A88-221005	3.6	2		1	5	7
A88-221011	2.8	-1		2	7	4
A88-221013	1.0	-1		-2	6	-1
A88-221020	7.5	4		8	12	9
A88-221026	1.1	1		-1	6	-1
A88-221029	0.6	0		-2	5	0
C1756	0.4	-1		0	3	-2
C1757	2.8	0		1	5	3
C1761	1.3	-2		2	6	-5
C1763	3.3	0		2	6	5
C1764	3.5	3		2	6	3
C1765	5.3	4		2	7	7
C1772	3.8	2		3	5	1
E87012	-2.8	-2		-11	-5	-4
E87053	-2.5	-2		-7	-5	-3
E87095	-2.3	-2		-5	-1	-8
E87127	2.9	2		0	5	4
E87202	-1.0	-2		-7	1	-4
E87223	1.4	2		-5	3	4
HS86-7619	-6.6	-6		-14	-6	-7
HS87-4017	1.4	2		-2	3	4
HS87-4020	0.3	0		-4	0	2
HS87-4087	4.4	3		3	5	10
M85-647	-0.8	-2		-5	3	-2
M85-1292	-2.5	-2		-5	-2	-4
ORC 8801	1.1	0		-7	1	1
ORC 8805	-0.6	-1		2	-5	-3
SD87005	-0.8	-1		-7	-1	-2
W87-23	-3.3	-4		-8	-3	-6
W87-211	-3.6	-5		-11	-5	-3
Date Planted	05/21	05/15		05/15	05/16	05/10
Days to Mature	122.5	130		124	120	135

UNIFORM PRELIMINARY TEST IIA, 1989

MATURITY (date)

Strain	Concord NE	Mead NE	Adelphia NJ	Hoytville OH	Ridge-town Ont.	Center-ville SD	Arling-ton WI
BURLISON (L)		3	7	13		5	
KENWOOD (II)		09/20	09/26	10/02		09/18	
STURDY (I)		0	-3	5		-3	
A88-221005		1	4	7		2	
A88-221011		0	3	7		0	
A88-221013		-1	0	7		0	
A88-221020		12	5	7		3	
A88-221026		0	-2	5		1	
A88-221029		0	-3	4		1	
C1756		-1	-1	5		0	
C1757		3	2	7		1	
C1761		-1	3	8		-1	
C1763		0	5	7		1	
C1764		1	5	7		1	
C1765		4	5	11		2	
C1772		3	5	7		4	
E87012		-2	0	6		-4	
E87053		-2	-4	5		-2	
E87095		-1	-5	6		-2	
E87127		1	3	7		1	
E87202		-1	3	4		-2	
E87223		-1	4	6		-2	
HS86-7619		-5	-9	-2		-4	
HS87-4017		1	-4	7		0	
HS87-4020		0	-4	8		0	
HS87-4087		2	2	7		3	
M85-647		-2	-3	6		-1	
M85-1292		-3	-8	5		-1	
ORC 8801		2	2	10		0	
ORC 8805		0	-2	5		-1	
SD87005		-1	0	6		0	
W87-23		-2	-6	6		-3	
W87-211		-4	-3	6		-4	
Date Planted		05/19	05/31	06/26		05/10	
Days to Mature		124	118	98		131	

UNIFORM PRELIMINARY TEST IIA, 1989

LODGING (score)

Strain	Mean 12 Tests	Ames IA	Marshall-town IA	Urbana IL	Lafay-ette IN	Britton MI
BURLISON (L)	1.3	1.8	1.3	1.0	1.0	1.5
KENWOOD (II)	1.6	1.9	2.3	1.5	1.0	1.5
STURDY (I)	1.4	1.8	1.5	1.0	1.0	1.0
A88-221005	1.2	1.4	1.2	1.0	1.0	1.0
A88-221011	1.2	1.6	1.2	1.0	1.0	1.0
A88-221013	1.4	1.9	1.2	1.0	1.0	1.5
A88-221020	1.5	1.7	1.5	1.0	1.0	1.5
A88-221026	1.8	2.3	1.7	1.5	1.5	2.0
A88-221029	1.5	1.8	1.9	1.0	1.0	1.0
C1756	1.6	1.9	2.0	1.0	1.0	1.0
C1757	1.3	1.6	1.4	1.0	1.0	1.0
C1761	1.4	1.4	1.4	1.0	1.0	1.0
C1763	1.5	2.0	2.0	1.0	1.0	1.0
C1764	1.5	1.9	1.5	1.0	1.0	2.5
C1765	1.7	2.5	1.8	2.0	1.3	2.0
C1772	1.6	1.8	1.3	2.0	1.0	1.5
E87012	1.8	2.7	2.6	1.5	1.0	1.5
E87053	1.7	2.3	2.5	1.0	1.0	2.0
E87095	1.4	1.8	1.5	1.0	1.0	1.0
E87127	1.8	1.8	1.8	2.0	1.0	2.5
E87202	1.7	2.4	2.2	1.0	1.0	1.5
E87223	1.5	2.3	1.7	2.0	1.0	1.5
HS86-7619	2.1	2.8	2.8	1.5	2.0	2.0
HS87-4017	1.6	1.7	1.3	2.0	1.0	2.0
HS87-4020	1.6	1.7	1.5	2.0	1.0	1.5
HS87-4087	1.5	1.8	1.7	1.0	1.0	1.5
M85-647	1.9	2.5	2.4	1.5	1.3	2.5
M85-1292	1.6	2.5	2.3	1.5	1.0	1.0
ORC 8801	1.9	3.0	2.7	2.0	1.0	2.0
ORC 8805	1.3	1.9	1.1	1.0	1.0	1.0
SD87005	1.6	2.9	1.8	1.0	1.3	1.0
W87-23	1.3	1.7	1.4	1.0	1.0	1.0
W87-211	1.6	1.8	1.9	1.0	1.0	2.0

UNIFORM PRELIMINARY TEST IIA, 1989

LODGING (score)

Strain	Concord NE	Mead NE	Adelphia NJ	Hoytville OH	Ridge-town Ont.	Center-ville SD	Arling-ton WI
BURLISON (L)	1.0	1.3	1.0	1.4	1.0	1.0	2.3
KENWOOD (II)	1.0	1.0	2.5	1.4	1.0	1.0	2.8
STURDY (I)	1.0	1.0	2.0	1.1	1.0	1.0	3.5
A88-221005	1.0	1.0	1.5	1.1	1.0	1.0	1.8
A88-221011	1.0	1.0	1.5	1.1	1.0	1.0	1.3
A88-221013	1.0	1.0	2.0	1.2	1.0	1.0	2.5
A88-221020	1.0	1.3	2.5	1.4	1.0	1.0	2.8
A88-221026	1.0	1.3	3.0	1.2	1.0	1.0	3.3
A88-221029	1.0	1.0	2.5	1.3	1.0	1.0	2.8
C1756	1.0	1.0	3.0	1.3	1.0	1.0	3.3
C1757	1.0	1.0	1.5	1.4	1.0	1.0	2.8
C1761	1.0	1.0	2.0	1.2	1.0	1.0	3.0
C1763	1.0	1.0	3.0	1.2	1.0	1.0	2.5
C1764	1.0	1.0	3.0	1.4	1.0	1.0	1.5
C1765	1.0	1.0	2.5	1.2	1.0	1.0	2.3
C1772	1.0	1.0	2.0	1.1	1.0	1.0	3.5
E87012	1.0	1.0	3.0	1.1	1.0	1.0	3.3
E87053	1.0	1.5	2.5	1.5	1.0	1.0	2.5
E87095	1.0	1.0	1.0	1.1	1.0	1.0	4.0
E87127	1.0	1.0	3.1	1.3	1.0	1.0	3.8
E87202	1.0	1.3	2.5	1.2	1.0	1.0	3.3
E87223	1.0	1.0	1.5	1.2	1.0	1.0	2.5
HS86-7619	1.0	2.0	3.0	1.4	1.0	1.0	3.8
HS87-4017	1.0	1.0	2.0	1.3	1.0	1.0	3.5
HS87-4020	1.0	1.3	3.0	1.3	1.0	1.0	2.5
HS87-4087	1.0	1.0	2.5	1.5	1.0	1.0	2.5
M85-647	1.0	1.0	3.0	1.4	1.0	1.0	3.8
M85-1292	1.0	1.0	2.0	1.1	1.0	1.0	3.3
ORC 8801	1.0	1.3	2.5	1.1	1.0	1.0	3.8
ORC 8805	1.0	1.0	1.5	1.1	1.0	1.0	2.3
SD87005	1.0	1.3	2.0	1.3	1.0	1.0	3.0
W87-23	1.0	1.3	2.0	1.2	1.0	1.0	2.0
W87-211	1.0	1.3	1.5	1.2	1.0	1.0	3.5

UNIFORM PRELIMINARY TEST IIA, 1989

PLANT HEIGHT (inches)

Strain	Mean 11 Tests	Ames IA	Marshall-town IA	Urbana IL	Lafay-ette IN	Britton MI
BURLISON (L)	32	38	36	34	30	32
KENWOOD (II)	33	40	38	32	32	36
STURDY (I)	32	42	32	31	29	34
A88-221005	31	37	32	32	31	36
A88-221011	29	34	29	32	28	31
A88-221013	32	38	36	33	31	34
A88-221020	32	40	34	31	32	34
A88-221026	35	42	33	36	35	35
A88-221029	32	39	34	31	32	31
C1756	33	38	36	33	34	30
C1757	33	41	37	31	32	34
C1761	31	39	37	31	30	32
C1763	31	40	32	32	32	32
C1764	36	44	38	37	37	41
C1765	36	44	42	37	33	37
C1772	33	37	30	37	33	36
E87012	33	42	38	31	30	34
E87053	35	42	39	35	34	38
E87095	32	41	36	35	32	31
E87127	34	40	36	35	33	38
E87202	35	42	38	31	38	38
E87223	32	38	37	34	31	34
HS86-7619	37	43	37	38	37	38
HS87-4017	33	41	36	34	31	36
HS87-4020	33	40	32	35	28	36
HS87-4087	35	40	34	35	35	37
M85-647	31	38	35	28	30	34
M85-1292	32	40	33	33	33	36
ORC 8801	31	37	32	31	30	30
ORC 8805	31	40	32	32	29	34
SD87005	32	44	36	26	34	24
W87-23	31	38	35	30	32	26
W87-211	36	42	42	35	34	42

UNIFORM PRELIMINARY TEST IIA, 1989

PLANT HEIGHT (inches)

Strain	Concord NE	Mead NE	Adelphia NJ	Hoytville OH	Ridge-town Ont.	Center-ville SD	Arling-ton WI
BURLISON (L)	26	26	29	22		36	35
KENWOOD (II)	27	29	32	23		35	36
STURDY (I)	26	38	29	21		34	33
A88-221005	23	30	28	21		33	30
A88-221011	23	31	28	18		31	29
A88-221013	22	30	30	20		34	32
A88-221020	24	31	32	20		32	30
A88-221026	28	36	35	23		35	35
A88-221029	27	29	35	20		34	34
C1756	26	32	35	24		36	36
C1757	26	33	33	21		35	37
C1761	23	33	31	18		30	32
C1763	25	30	31	19		35	31
C1764	29	30	35	24		36	39
C1765	27	35	34	20		35	38
C1772	25	32	32	20		33	37
E87012	28	32	32	20		36	38
E87053	28	36	31	21		32	39
E87095	28	29	29	23		33	35
E87127	26	34	30	21		34	34
E87202	29	34	34	23		37	36
E87223	23	29	31	22		33	35
HS86-7619	35	39	34	17		43	43
HS87-4017	23	31	32	21		31	36
HS87-4020	23	31	34	20		34	35
HS87-4087	25	31	38	25		33	38
M85-647	26	30	29	19		32	33
M85-1292	31	32	27	20		35	34
ORC 8801	26	29	27	19		37	33
ORC 8805	25	28	29	19		31	32
SD87005	27	34	29	20		35	33
W87-23	27	37	31	18		33	34
W87-211	28	36	31	26		38	37

UNIFORM PRELIMINARY TEST IIA, 1989

SEED QUALITY (score)

Strain	Mean 11 Tests	Ames IA	Marshall-town IA	Urbana IL	Lafay-ette IN	Britton MI
BURLISON (L)	1.8	1.5	1.5	1.2	1.5	
KENWOOD (II)	2.0	1.0	1.0	1.8	1.5	
STURDY (I)	2.1	1.5	1.5	1.7	1.5	
A88-221005	1.9	1.0	1.0	1.4	1.5	
A88-221011	1.7	1.0	1.0	1.8	1.5	
A88-221013	2.1	2.0	1.0	1.5	2.0	
A88-221020	2.2	1.5	2.0	1.9	1.5	
A88-221026	2.3	1.0	1.5	2.0	1.5	
A88-221029	2.4	1.5	1.5	1.8	1.5	
C1756	2.4	1.0	1.5	2.0	1.5	
C1757	2.1	1.0	1.0	1.4	1.5	
C1761	2.6	2.0	1.5	2.7	2.0	
C1763	2.3	1.5	1.5	1.9	1.5	
C1764	2.2	2.0	1.5	2.2	1.5	
C1765	2.0	1.0	1.5	1.9	1.5	
C1772	1.8	1.0	1.5	1.5	1.5	
E87012	2.3	1.5	2.0	1.9	1.5	
E87053	2.6	2.0	2.0	1.8	1.5	
E87095	2.5	2.0	1.5	1.4	1.5	
E87127	2.1	2.0	1.5	1.4	1.5	
E87202	2.1	1.5	1.5	1.8	1.5	
E87223	2.1	1.0	1.5	1.7	1.5	
HS86-7619	2.2	3.0	2.0	1.4	1.5	
HS87-4017	2.2	2.0	1.5	1.9	1.5	
HS87-4020	2.0	2.0	1.5	1.7	1.5	
HS87-4087	1.9	1.5	2.0	1.8	1.0	
M85-647	2.0	1.0	1.0	1.5	1.5	
M85-1292	2.0	2.0	1.5	1.8	1.5	
ORC 8801	2.3	2.0	1.0	2.3	2.0	
ORC 8805	2.7	2.5	2.0	2.0	2.0	
SD87005	2.2	3.0	1.5	1.7	1.5	
W87-23	2.5	1.0	2.5	1.4	2.0	
W87-211	2.3	3.0	2.0	1.7	2.0	

UNIFORM PRELIMINARY TEST IIA, 1989

SEED QUALITY (score)

Strain	Concord NE	Mead NE	Adelphia NJ	Hoytville OH	Ridge-town Ont.	Center-ville SD	Arling-ton WI
BURLISON (L)	3.0	2.0	2.5	1.4	1.0	3.0	2.5
KENWOOD (II)	1.8	2.5	4.5	2.0	1.0	3.0	2.0
STURDY (I)	2.0	2.5	3.5	2.3	2.0	3.0	1.5
A88-221005	2.0	2.0	3.0	2.0	1.0	4.0	2.0
A88-221011	1.8	1.5	3.5	1.4	1.0	3.0	1.5
A88-221013	1.8	2.0	4.0	2.5	1.0	3.0	2.0
A88-221020	3.0	2.5	3.0	2.1	1.5	4.0	2.0
A88-221026	2.0	3.0	4.5	3.0	1.0	4.0	2.5
A88-221029	1.8	2.5	3.5	2.5		4.0	3.0
C1756	3.0	3.0	4.0	1.9	1.0	5.0	3.0
C1757	2.5	2.5	3.5	1.7	1.0	5.0	2.0
C1761	3.5	3.0	4.0	2.1	1.0	5.0	3.0
C1763	3.0	2.5	3.5	2.3	1.0	4.0	3.0
C1764	3.0	3.0	4.0	1.7	1.0	3.0	2.0
C1765	3.0	2.5	3.0	1.5	1.0	4.0	2.5
C1772	2.0	2.0	2.0	1.9	1.0	4.0	2.0
E87012	2.0	3.0	4.0	2.0	1.0	4.0	2.5
E87053	2.5	2.5	3.5	2.2	4.0	3.0	3.0
E87095	2.5	3.0	4.0	2.4	3.5	3.0	2.5
E87127	3.0	2.5	3.5	1.6	1.0	3.0	3.0
E87202	1.8	3.0	4.5	1.5	1.0	3.0	1.5
E87223	1.8	2.0	5.0	1.6	2.5	2.0	2.0
HS86-7619	1.3	2.0	3.5	1.7	2.5	3.0	1.0
HS87-4017	3.0	2.5	4.0	1.9	1.0	3.0	2.5
HS87-4020	3.5	2.0	3.5	1.6	1.0	3.0	2.5
HS87-4087	2.0	2.0	3.0	1.4	1.0	3.0	2.5
M85-647	2.0	2.0	5.0	1.3	1.0	3.0	2.5
M85-1292	1.8	2.0	3.5	1.3	1.0	3.0	2.5
ORC 8801	2.5	2.5	4.0	1.3	1.0	4.0	2.5
ORC 8805	2.5	3.0	4.0	1.6	4.0	3.0	2.5
SD87005	1.8	2.0	4.5	1.3	1.0	3.0	2.0
W87-23	1.8	2.5	3.5	1.7	5.0	3.0	2.5
W87-211	2.0	2.0	3.0	1.9	2.5	3.0	1.5

UNIFORM PRELIMINARY TEST IIA, 1989

SEED SIZE (g\100)

Strain	Mean 11 Tests	Ames IA	Marshall-town IA	Urbana IL	Lafay-ette IN	Britton MI
BURLISON (L)	18.0	18.5	17.5	18.2	18.1	19.5
KENWOOD (II)	14.8	16.5	14.0	16.3	14.2	16.3
STURDY (I)	18.0	17.8	18.1	20.1	17.7	18.6
A88-221005	15.5	15.8	14.1	17.4	15.5	16.5
A88-221011	16.4	17.0	14.8	18.8	16.9	16.4
A88-221013	18.1	19.4	17.3	20.7	19.4	17.5
A88-221020	15.9	17.2	13.9	18.7	17.2	15.9
A88-221026	14.4	17.0	14.6	18.6	16.9	15.9
A88-221029	17.4	17.7	15.6	19.1	18.6	17.4
C1756	17.9	18.3	16.4	18.4	19.4	17.3
C1757	17.8	17.7	16.9	21.1	19.7	18.7
C1761	16.9	17.3	15.8	18.1	17.8	17.5
C1763	17.7	18.1	15.0	19.4	18.9	17.8
C1764	18.2	18.7	17.7	19.1	18.5	19.5
C1765	18.2	19.5	17.3	19.7	19.6	19.6
C1772	17.5	17.8	14.6	19.3	17.9	18.2
E87012	16.3	16.8	16.0	16.8	18.0	16.4
E87053	16.2	17.1	15.8	18.9	16.0	16.3
E87095	18.2	18.6	18.3	19.8	18.2	18.2
E87127	16.5	16.3	15.7	18.6	16.3	17.9
E87202	16.6	16.6	14.8	18.4	17.4	17.2
E87223	15.4	16.8	14.7	16.1	16.0	17.0
HS86-7619	13.0	13.0	11.4	13.3	13.0	13.0
HS87-4017	17.7	19.2	17.8	17.8	17.7	19.6
HS87-4020	18.4	20.6	18.3	19.0	18.6	19.9
HS87-4087	16.0	16.9	14.5	16.3	18.3	17.5
M85-647	14.3	15.1	14.5	15.3	14.7	14.3
M85-1292	14.8	15.5	13.5	15.1	15.5	15.1
ORC 8801	16.4	17.7	15.8	16.9	16.8	17.7
ORC 8805	16.7	16.9	16.1	18.4	16.2	17.2
SD87005	14.9	15.6	14.8	13.4	15.7	14.6
W87-23	15.4	15.5	13.8	16.0	17.5	14.9
W87-211	17.3	17.6	17.7	17.2	16.2	18.7

UNIFORM PRELIMINARY TEST IIA, 1989

SEED SIZE (g\100)

Strain	Concord NE	Mead NE	Adelphia NJ	Hoytville OH	Ridge-town Ont.	Center-ville SD	Arling-ton WI
BURLISON (L)	17.8	18.7	21.5	15.4		16.4	16.3
KENWOOD (II)	14.8	15.8	16.5	12.8		11.3	14.7
STURDY (I)	17.5	20.8	19.5	16.9		12.3	17.8
A88-221005	15.6	17.0	17.5	13.1		14.4	13.7
A88-221011	16.6	18.3	18.0	13.7		15.7	14.1
A88-221013	19.8	19.3	20.0	14.1		17.2	15.6
A88-221020	16.4	16.7	18.0	12.8		14.7	14.0
A88-221026	16.2	18.7	17.0	13.1		15.6	13.8
A88-221029	19.0	19.5	18.5	14.2		16.8	16.5
C1756	19.0	20.0	19.5	15.5		17.3	17.1
C1757	18.8	20.1	18.5	15.1		14.4	16.2
C1761	18.1	19.3	18.0	15.7		13.6	15.9
C1763	19.1	20.3	20.5	15.5		15.6	15.6
C1764	20.0	19.9	21.0	15.6		16.7	15.5
C1765	18.6	19.5	19.5	14.7		16.4	16.0
C1772	18.4	19.3	20.0	14.7		16.9	16.2
E87012	14.4	17.4	16.5	14.0		15.1	15.8
E87053	16.9	15.9	16.0	15.1		15.0	15.4
E87095	18.7	20.6	18.0	16.3		17.4	16.8
E87127	16.3	17.8	18.5	14.3		14.9	14.2
E87202	14.8	18.6	18.5	13.7		16.0	15.2
E87223	15.9	15.4	16.5	13.0		13.6	14.7
HS86-7619	12.7	14.0	16.0	11.6		12.8	11.7
HS87-4017	19.7	18.9	16.5	15.4		17.5	16.1
HS87-4020	18.9	19.4	18.5	15.3		17.4	17.1
HS87-4087	17.1	16.6	17.0	13.6		14.8	14.8
M85-647	14.1	13.1	15.5	11.8		12.9	15.3
M85-1292	15.1	15.8	15.5	13.8		14.0	14.5
ORC 8801	15.8	17.2	18.5	13.9		14.1	15.8
ORC 8805	16.6	19.0	17.5	14.3		15.3	16.1
SD87005	15.6	16.4	16.0	14.1		14.1	14.7
W87-23	14.4	16.4	16.0	14.4		14.4	14.9
W87-211	15.6	19.3	18.0	15.1		16.2	17.2

UNIFORM PRELIMINARY TEST IIA, 1989

PROTEIN (%)

Strain	Mean 3 Tests	Ames IA	Lafayette IN	Mead NE
BURLISON (L)	41.2	41.3	40.4	42.0
KENWOOD (II)	38.2	38.6	36.4	39.5
STURDY (I)	39.5	39.3	38.2	41.1
A88-221005	40.6	40.1	40.5	41.2
A88-221011	39.4	39.8	37.4	41.1
A88-221013	39.1	39.6	37.6	40.1
A88-221020	39.5	38.6	38.5	41.5
A88-221026	40.0	38.7	36.9	41.2
A88-221029	39.2	39.5	36.9	41.1
C1756	38.9	38.4	37.0	41.2
C1757	39.0	38.0	37.6	41.4
C1761	40.2	39.1	39.7	41.8
C1763	39.2	39.6	37.8	40.1
C1764	40.4	40.3	38.4	42.4
C1765	39.3	40.2	36.5	41.2
C1772	39.3	39.8	36.8	41.3
E87012	39.7	39.9	39.1	40.0
E87053	38.8	38.7	38.1	39.6
E87095	38.7	39.0	38.5	38.7
E87127	39.2	38.9	38.4	40.2
E87202	40.3	40.3	40.0	40.5
E87223	39.5	40.4	37.7	40.4
HS86-7619	40.0	40.4	39.2	40.5
HS87-4017	40.2	39.5	39.7	41.5
HS87-4020	39.8	40.5	38.2	40.8
HS87-4087	39.2	40.3	37.1	40.3
M85-647	40.6	40.5	39.7	41.6
M85-1292	37.9	38.7	37.1	38.0
ORC 8801	38.5	37.9	38.0	39.5
ORC 8805	40.2	40.4	39.5	40.8
SD87005	40.6	40.6	39.8	41.5
W87-23	39.2	38.8	39.4	39.5
W87-211	41.8	41.9	40.7	42.8

UNIFORM PRELIMINARY TEST IIA, 1989

OIL (%)

Strain	Mean 3 Tests	Ames IA	Lafayette IN	Mead NE
BURLISON (L)	19.4	18.6	19.8	19.9
KENWOOD (II)	21.5	20.9	22.4	21.3
STURDY (I)	20.9	20.8	21.4	20.5
A88-221005	21.2	20.4	22.2	20.9
A88-221011	21.2	20.5	22.4	20.6
A88-221013	20.7	20.2	21.2	20.8
A88-221020	20.9	20.5	22.1	20.0
A88-221026	20.3	20.2	21.7	20.3
A88-221029	20.9	20.2	21.6	20.8
C1756	21.2	21.0	22.1	20.4
C1757	21.0	21.4	21.4	20.1
C1761	20.5	20.6	21.2	19.7
C1763	21.1	20.6	21.4	21.4
C1764	20.1	19.9	20.7	19.7
C1765	20.0	19.2	20.9	20.0
C1772	20.8	19.7	22.1	20.5
E87012	21.2	20.4	21.7	21.4
E87053	21.0	21.1	20.9	20.9
E87095	20.4	20.1	20.8	20.2
E87127	21.1	20.6	22.2	20.6
E87202	20.5	20.3	21.6	19.7
E87223	20.4	20.0	21.3	19.9
HS86-7619	20.6	21.5	20.6	19.8
HS87-4017	21.1	20.2	22.5	20.5
HS87-4020	20.6	20.0	22.2	19.7
HS87-4087	20.1	19.5	21.0	19.9
M85-647	21.3	21.2	22.5	20.2
M85-1292	21.3	20.8	21.7	21.3
ORC 8801	21.3	20.4	22.7	20.7
ORC 8805	20.6	19.3	21.9	20.5
SD87005	21.4	21.1	22.5	20.6
W87-23	21.9	21.5	22.6	21.5
W87-211	20.3	19.4	21.7	19.8

UNIFORM PRELIMINARY TEST IIB, 1989

Strain	Parentage	Generation Composited	Unique Traits
Burlison (L)	K74-113-76-486 x Century	F5	Rps1-b, Rps3
Kenwood (II)	Elgin x Asgrow A1937	F5	
Sturdy (L)	M70-127 x Century	F5	
LL86-1615	Williams 79 x PI 486.355	F5	SMV Resis.
LN84-8339	Hack x Harper	F5	Rps1
LN84-8588	Hack x Harper	F5	
LN85-5352	LNX8107 x LN80-7532	F5	Rps?,BSR Resis.
LN85-6747	LNX8132 x LN80-7532	F5	Rps1, BSR Resis.
LN85-6800	LNX8132 x LN80-7532	F5	Rps1, BSR Resis.
LN85-7355	LNX8138 x A80-244003	F5	Rps?
LN85-9245	LNX8141 x LN80-7532	F5	Rps1
LN85-9442	LNX8141 x LN80-7532	F5	Rps1, BSR Resis.
LN86-983	Hack x BSR 101	F5	Rps1
LN86-1073	Hack x A80-244036	F5	Rps1
LN86-1088	Hack x A80-244036	F5	Rps1
LN86-1105	Hack x A80-244036	F5	Rps1
LN86-1578	Hack x PI 437.833	F5	Rps1
LN86-1735	PI437.833 x A80-244036	F5	Rps1
U8671056	U86413 x Nebsoy	F5	
U8765087	A80-250034 x Century	F5	
U8770014	A80-250034 x Century	F5	
Hoyt (dtl)	Harcor x Elf	F5	dtl
HC84-468	HC74-678 x Sprite	F5	dtl
HC84-919	M70-153 x Sprite	F5	dtl
HC84-923	M70-153 x Sprite	F5	dtl
HC85-159	HC78-676 x Sprite	F5	dtl
HC85-466	HC78-826 x HC78-676	F5	dtl
HC85-477	HC78-676 x HW74-3400	F5	dtl
HC85-768	HC78-676 x Hobbit	F5	dtl
HC85-1232	HC78-676 x Hobbit	F5	dtl
HC85-1348	HC78-676 x Asgrow A3127	F5	dtl
HC85-1440	Hobbit x Forrest	F5	dtl
HC85-2620	Hobbit x L77-1836	F5	dtl

UNIFORM PRELIMINARY TEST IIB, 1989

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	Chlorosis Score Ames	Shattering Score Manhattan	BSR - Ames Plant n %	BSR - Ames Stem n %
BURLISON (L)	WTTSBlI	3.0	1	100.0	86.1
KENWOOD (II)	PTBSBlI	5.0	2	100.0	77.1
STURDY (I)	PGBSIbI	4.0	2	100.0	89.4
LL86-1615	WTTSBlI	2.8	1	100.0	93.3
LN84-8339	P+WTBSBlI	4.7	1	100.0	79.3
LN84-8588	WGTSBfI	3.8	2	100.0	79.3
LN85-5352	PTBDBrI	4.2	2	90.0	37.0
LN85-6747	PGTSIbI	5.0	2	100.0	83.6
LN85-6800	PGTSIbI	4.8	1	90.0	33.8
LN85-7355	WTTSBlI	5.0	2	100.0	80.0
LN85-9245	PTBSBlI	4.7	1	100.0	51.8
LN85-9442	PGBSIbI	4.8	1	100.0	76.4
LN86-983	PGTSIbI	3.7	2	40.0	8.9
LN86-1073	WGTSBfI	5.0	1	100.0	64.0
LN86-1088	WGTSBfI	5.0	1	100.0	82.8
LN86-1105	PGTSIbI	5.0	1	100.0	67.6
LN86-1578	WGTSYI	4.3	1	100.0	80.7
LN86-1735	PGBSIbI	4.5	1	100.0	94.7
U8671056	PTTSBlI	4.3	1	100.0	100.0
U8765087	WTBDBlI	4.7	1	100.0	96.1
U8770014	WTBSBlI	4.7	2	100.0	95.3
HOYT (dt)	PTTSBlD	4.5	1	100.0	98.6
HC84-468	WTBSBlD	4.5	1	100.0	66.1
HC84-919	PTTSBrD	3.8	1	100.0	93.8
HC84-923	P+WTTSBrD	3.0	1	100.0	100.0
HC85-159	PTTDBlD	4.8	1	100.0	100.0
HC85-466	PTTSBrD	4.8	1	100.0	98.0
HC85-477	P+WTBSBrD	4.8	1	100.0	89.3
HC85-768	PTBSBrD	5.0	1	100.0	98.0
HC85-1232	WTTSBlD	4.8	1	100.0	100.0
HC85-1348	PTTSBlD	5.0	1	100.0	95.3
HC85-1440	PTTSBlD	4.5	1	100.0	99.0
HC85-2620	WTTSBlD	5.0	2	100.0	99.0

UNIFORM PRELIMINARY TEST IIB, 1989

DISEASE DATA

	PR		PS	PSB	SMV
	Ames	Urbana	Lafayette		
	Race 4	Race	a	n	a
Strain	Reaction	1	%	%	Score
BURLISON (L)	R	R	28	28	3E
KENWOOD (II)	S	S	39	62	3E
STURDY (I)	S	R	10	70	4E
LL86-1615	S	R	4	34	5E
LN84-8339	S	R	10	38	5E
LN84-8588	H	S	26	14	3M
LN85-5352	R	R	18	12	5E
LN85-6747	S	R	60	16	2E
LN85-6800	H	R	54	14	3E
LN85-7355	H	R	20	24	5E
LN85-9245	S	R	56	20	3E
LN85-9442	S	M	32	36	3E
LN86-983	S	R	48	44	2E
LN86-1073	S	R	40	34	3E
LN86-1088	S	R	40	26	3E
LN86-1105	S	R	48	14	3E
LN86-1578	S	R	24	36	4E
LN86-1735	S	R	28	40	5M
U8671056	S	S	52	14	5E
U8765087	S	M	10	44	5E
U8770014	H	R	18	12	5E
HOYT (dt)	S	S	--	--	--
HC84-468	S	R	12	32	5E
HC84-919	S	M	0	24	5E
HC84-923	S	S	4	22	5E
HC85-159	S	R	8	20	5E
HC85-466 (dt	S	S	22	12	5S
HC85-477	S	R	16	10	5E
HC85-768	S	M	14	4	5E
HC85-1232	S	S	38	4	5E
HC85-1348	S	S	12	6	5E
HC85-1440	S	M	14	8	5E
HC85-2620	S	S	14	8	5M

UNIFORM PRELIMINARY TEST IIB, 1989

REGIONAL SUMMARY

No. of Tests Strain	Yield 12 bu/a	Rank 12 No.	Maturity 9 Date	Lodging 12 Score	Plant Height 12 In.	Seed Quality 11 Score	Seed Size 11 g/100	Composition Protein 4 %	 Oil 4 %
BURLISON (L)	48.3	19	6.6	1.4	33	2.3	17.8	40.7	19.7
KENWOOD (II)	50.5	4	09/20*	1.8	34	2.0	15.0	37.8	21.7
STURDY (I)	48.3	19	-3.7	1.5	32	2.3	18.1	39.4	21.4
LL86-1615	43.1	31	2.8	1.6	30	2.0	13.3	41.4	19.5
LN84-8339	49.0	13	2.7	1.2	32	2.3	18.9	39.8	21.3
LN84-8588	50.8	3	2.4	1.3	31	2.0	16.3	37.2	21.3
LN85-5352	44.7	28	3.0	1.6	31	2.3	18.2	40.3	19.5
LN85-6747	46.4	24	1.2	1.2	31	2.0	16.3	36.8	21.7
LN85-6800	50.2	6	3.2	1.6	35	2.1	15.8	38.5	21.6
LN85-7355	49.5	9	0.9	1.9	34	2.2	16.9	40.0	20.4
LN85-9245	48.0	21	1.8	1.5	36	2.2	18.0	38.9	20.8
LN85-9442	49.4	10	3.6	1.5	32	2.1	16.7	36.5	21.6
LN86-983	50.2	6	-0.9	1.8	35	2.2	15.9	37.2	21.3
LN86-1073	45.8	26	-3.1	1.4	29	2.1	17.5	38.1	21.4
LN86-1088	50.9	2	6.8	2.1	36	2.4	18.9	36.8	20.7
LN86-1105	47.0	23	-1.2	2.1	32	2.3	18.3	36.9	21.9
LN86-1578	47.8	22	3.9	2.2	36	2.3	19.9	40.1	20.2
LN86-1735	40.9	33	3.0	3.0	35	2.5	20.2	40.5	20.7
U8671056	44.8	27	3.3	1.6	34	2.4	14.8	40.2	20.4
U8765087	46.0	25	1.7	1.8	37	2.2	16.7	39.0	21.2
U8770014	48.9	15	6.2	1.7	38	2.2	19.1	39.4	20.6
HOYT (dt)	50.5	4	1.9	1.5	25	2.0	14.1	39.4	20.6
HC84-468	41.7	32	12.7	2.4	35	2.3	15.6	38.1	21.3
HC84-919	49.0	13	11.3	1.2	27	2.3	17.8	38.8	20.9
HC84-923	44.2	29	11.9	1.2	25	2.4	16.6	39.3	21.1
HC85-159	44.0	30	7.9	1.7	26	2.2	15.6	38.2	21.6
HC85-466	48.7	16	10.0	1.5	27	1.8	15.5	39.7	20.7
HC85-477	49.9	8	7.8	1.8	27	2.0	15.8	37.0	22.0
HC85-768	49.1	12	13.0	1.1	26	2.0	16.5	39.3	20.7
HC85-1232	48.7	16	9.9	1.1	25	1.7	15.7	40.1	20.4
HC85-1348	49.2	11	10.9	1.2	26	1.9	15.1	39.7	21.0
HC85-1440	52.2	1	9.3	1.2	25	2.0	16.5	38.5	20.6
HC85-2620	48.6	18	9.8	1.1	24	1.9	17.7	37.0	22.4

*122.3 Days After Planting

UNIFORM PRELIMINARY TEST IIB, 1989

YIELD (bu/a)

Strain	Mean 12 Tests	Ames IA	Marshall-town IA	Urbana IL	Lafay-ette IN	Britton MI
BURLISON (L)	48.3	49.1	53.9	53.7	45.0	58.9
KENWOOD (II)	50.5	52.8	57.4	63.3	40.8	59.7
STURDY (I)	48.3	52.6	50.9	55.6	36.9	57.1
LL86-1615	43.1	40.9	41.0	52.3	38.2	58.3
LN84-8339	49.0	50.7	52.9	64.9	38.2	61.0
LN84-8588	50.8	50.9	53.7	61.2	40.8	59.4
LN85-5352	44.7	49.2	47.0	56.7	39.3	50.2
LN85-6747	46.4	49.0	51.6	51.1	38.0	50.4
LN85-6800	50.2	49.6	53.4	57.5	42.4	54.6
LN85-7355	49.5	51.2	49.7	59.7	42.0	62.9
LN85-9245	48.0	50.0	52.9	57.7	44.2	54.0
LN85-9442	49.4	48.3	54.4	57.9	37.9	58.8
LN86-983	50.2	52.7	54.2	60.5	37.2	64.7
LN86-1073	45.8	51.3	47.2	56.2	26.9	52.5
LN86-1088	50.9	51.8	54.7	57.8	40.9	65.1
LN86-1105	47.0	50.7	47.5	59.7	39.9	55.2
LN86-1578	47.8	46.8	49.0	62.0	43.0	58.5
LN86-1735	40.9	41.4	42.9	57.1	38.7	52.4
U8671056	44.8	42.9	46.2	52.5	44.2	54.3
U8765087	46.0	46.6	47.3	57.4	40.3	53.0
U8770014	48.9	48.2	53.5	66.1	44.3	54.3
HOYT (dt)	50.5	52.0	54.8	56.7	40.1	63.0
HC84-468	41.7	33.9	29.7	51.0	50.9	56.2
HC84-919	49.0	40.8	46.8	59.2	39.3	68.6
HC84-923	44.2	42.5	38.2	56.4	35.1	63.5
HC85-159	44.0	47.3	48.5	63.7	45.9	59.1
HC85-466	48.7	42.4	51.7	45.2	43.7	53.6
HC85-477	49.9	50.6	49.5	60.8	49.8	55.7
HC85-768	49.1	40.1	48.4	58.3	49.2	60.1
HC85-1232	48.7	45.7	48.8	59.3	47.4	54.1
HC85-1348	49.2	44.9	44.9	59.8	50.2	61.9
HC85-1440	52.2	47.9	54.5	63.5	45.9	59.9
HC85-2620	48.6	46.6	49.8	56.9	47.8	57.4
C.V. (%)		4.9	5.7	8.5	9.8	7.0
L.S.D. (5%)		4.7	5.7	10.0	8.4	8.3
Row Sp. (In.)		27	27	30	24	20
Rows/Plot		4	4	4	4	4
Reps		2	2	2	3	4

UNIFORM PRELIMINARY TEST IIB, 1989

YIELD (bu/a)

Strain	Concord NE	Mead NE	Adelphia NJ	Hoytville OH	Ridge-town Ont.	Center-ville SD	Arling-ton WI
BURLISON (L)	16.6	54.2	47.2	29.4	61.4	38.5	39.7
KENWOOD (II)	23.5	49.1	42.2	32.5	63.8	43.9	49.6
STURDY (I)	21.1	54.4	39.8	31.0	58.2	42.7	51.6
LL86-1615	16.2	48.2	45.1	22.7	56.4	34.8	35.7
LN84-8339	22.2	47.2	51.3	31.0	56.8	37.7	47.3
LN84-8588	25.4	53.6	54.8	34.4	61.5	40.3	48.3
LN85-5352	16.6	46.8	53.8	24.6	54.4	34.4	35.0
LN85-6747	21.9	53.5	47.2	29.1	56.2	39.1	44.8
LN85-6800	25.1	62.7	60.0	30.5	56.1	40.0	45.2
LN85-7355	28.9	51.0	50.0	32.0	56.1	42.0	47.8
LN85-9245	23.8	52.7	53.9	29.8	55.8	35.9	40.9
LN85-9442	22.4	52.5	55.6	34.1	60.5	39.9	43.1
LN86-983	25.6	54.0	51.0	35.6	59.9	37.7	44.8
LN86-1073	18.2	56.4	46.4	27.9	52.2	41.1	46.1
LN86-1088	26.0	63.3	49.2	32.0	61.5	36.8	46.8
LN86-1105	32.1	47.2	44.4	29.5	53.2	40.3	49.3
LN86-1578	15.8	46.6	50.4	32.8	59.1	33.2	44.4
LN86-1735	17.3	34.7	43.9	23.5	49.6	31.6	34.6
U8671056	25.0	44.4	35.2	32.3	59.6	36.3	44.8
U8765087	17.9	55.6	37.4	35.2	58.8	38.9	35.0
U8770014	20.8	49.8	48.5	32.1	62.2	38.8	39.7
HOYT (dt)	26.5	45.8	55.7	34.1	59.1	41.1	53.4
HC84-468	18.0	57.4	51.2	24.7	53.7	26.5	23.4
HC84-919	16.7	59.4	52.1	34.6	63.8	33.4	41.5
HC84-923	24.6	44.1	47.9	30.5	61.2	30.2	36.7
HC85-159	20.9	0.0	38.5	35.9	59.0	41.2	44.7
HC85-466	14.5	59.3	67.8	33.0	56.7	37.5	44.3
HC85-477	21.4	58.9	39.0	37.4	63.5	39.9	43.4
HC85-768	23.0	52.2	66.5	30.2	58.3	36.6	39.9
HC85-1232	18.8	47.5	61.3	32.8	55.4	40.8	42.9
HC85-1348	18.8	51.2	60.0	31.4	60.4	36.1	40.2
HC85-1440	19.4	55.3	62.0	32.8	63.0	39.7	49.3
HC85-2620	22.9	49.8	52.7	34.5	56.7	39.9	42.4
C.V. (%)	20.7	13.3	26.7	6.6	5.2	8.5	11.0
L.S.D. (5%)	9.1	14.1	10.2	4.1	6.3	6.4	9.7
Row Sp. (In.)	30	30	30	30	24	30	30
Rows/Plot	4	4	4	4	4	4	4
Reps	3	2	2	2	2	2	2

UNIFORM PRELIMINARY TEST IIB, 1989

YIELD RANK

Strain	Yield Rank	Ames IA	Marshall-town IA	Urbana IL	Lafay-ette IN	Britton MI
BURLISON (L)	19	15	7	28	9	14
KENWOOD (II)	4	1	1	5	18	11
STURDY (I)	19	3	15	27	31	19
LL86-1615	31	30	31	30	26	17
LN84-8339	13	9	11	2	26	8
LN84-8588	3	8	8	7	18	12
LN85-5352	28	14	26	23	23	33
LN85-6747	24	16	14	31	28	32
LN85-6800	6	13	10	19	15	23
LN85-7355	9	7	17	11	16	6
LN85-9245	21	12	11	18	11	27
LN85-9442	10	17	5	16	29	15
LN86-983	6	2	6	9	30	3
LN86-1073	26	6	25	26	33	30
LN86-1088	2	5	3	17	17	2
LN86-1105	23	9	23	11	22	22
LN86-1578	22	21	19	6	14	16
LN86-1735	33	29	30	21	25	31
U8671056	27	26	28	29	11	24
U8765087	25	22	24	20	20	29
U8770014	15	18	9	1	10	25
HOYT (dt)	4	4	2	23	21	5
HC84-468	32	33	33	32	1	20
HC84-919	13	31	27	14	23	1
HC84-923	29	27	32	25	32	4
HC85-159	30	20	21	3	7	13
HC85-466	16	28	13	33	13	28
HC85-477	8	11	18	8	3	21
HC85-768	12	32	22	15	4	9
HC85-1232	16	24	20	13	6	26
HC85-1348	11	25	29	10	2	7
HC85-1440	1	19	4	4	8	10
HC85-2620	18	22	16	22	5	18

UNIFORM PRELIMINARY TEST IIB, 1989

YIELD RANK

Strain	Concord NE	Mead NE	Adelphia NJ	Hoytville OH	Ridge-town Ont.	Center-ville SD	Arling-ton WI
BURLISON (L)	29	11	22	27	8	18	26
KENWOOD (II)	11	23	28	13	1	1	3
STURDY (I)	18	10	29	19	19	2	2
LL86-1615	31	24	25	33	23	27	29
LN84-8339	15	26	14	21	20	19	8
LN84-8588	6	13	9	7	6	8	6
LN85-5352	29	28	11	31	29	28	30
LN85-6747	16	14	22	28	24	15	12
LN85-6800	7	2	5	23	25	10	11
LN85-7355	2	20	18	17	25	3	7
LN85-9245	10	16	10	23	27	26	23
LN85-9442	14	17	8	8	10	11	19
LN86-983	5	12	16	3	12	19	12
LN86-1073	24	7	24	29	32	5	10
LN86-1088	4	1	19	18	6	22	9
LN86-1105	1	26	26	26	31	8	4
LN86-1578	32	29	17	12	14	30	16
LN86-1735	27	33	27	32	33	31	32
U8671056	8	31	33	13	13	24	12
U8765087	26	8	32	4	17	16	30
U8770014	20	21	20	16	5	17	26
HOYT (dt)	3	30	7	9	14	5	1
HC84-468	25	6	15	30	30	33	33
HC84-919	28	3	13	5	1	29	22
HC84-923	9	32	21	22	9	32	28
HC85-159	19	15	31	2	16	4	15
HC85-466	33	4	1	10	21	21	17
HC85-477	17	5	30	1	3	11	18
HC85-768	12	18	2	23	18	23	25
HC85-1232	22	25	4	10	28	7	20
HC85-1348	22	19	5	19	11	25	24
HC85-1440	21	9	3	13	4	14	4
HC85-2620	13	21	12	6	21	11	21

UNIFORM PRELIMINARY TEST IIB, 1989

MATURITY (date)

Strain	Mean 9 Tests	Ames IA	Marshall-town IA	Urbana IL	Lafay-ette IN	Britton MI
BURLISON (L)	6.6	4		7	7	9
KENWOOD (II)	09/20	09/21		09/14	09/12	09/21
STURDY (I)	-3.7	-2		-6	-6	-6
LL86-1615	2.8	0		4	5	3
LN84-8339	2.7	2		2	5	0
LN84-8588	2.4	0		2	5	1
LN85-5352	3.0	3		-1	6	4
LN85-6747	1.2	0		3	4	1
LN85-6800	3.2	3		0	6	5
LN85-7355	0.9	2		-2	1	0
LN85-9245	1.8	1		-4	2	2
LN85-9442	3.6	2		-2	4	7
LN86-983	-0.9	0		-6	-1	-3
LN86-1073	-3.1	-3		-9	-4	-7
LN86-1088	6.8	4		9	9	6
LN86-1105	-1.2	-2		-3	0	-2
LN86-1578	3.9	2		2	8	4
LN86-1735	3.0	0		1	7	2
U8671056	3.3	3		3	6	1
U8765087	1.7	1		2	5	4
U8770014	6.2	6		6	7	10
HOYT (dt)	1.9	1		1	6	-2
HC84-468	12.7	8		15	20	16
HC84-919	11.3	8		11	22	14
HC84-923	11.9	8		12	21	14
HC85-159	7.9	6		10	13	12
HC85-466	10.0	7		9	19	11
HC85-477	7.8	6		10	12	11
HC85-768	13.0	8		11	21	15
HC85-1232	9.9	7		9	13	12
HC85-1348	10.9	8		12	18	11
HC85-1440	9.3	7		9	15	11
HC85-2620	9.8	8		12	15	12
Date Planted	05/21	05/15		05/15	05/16	05/10
Days to Mature	122.3	129		122	119	134

UNIFORM PRELIMINARY TEST IIB, 1989

MATURITY (date)

Strain	Concord NE	Mead NE	Adelphia NJ	Hoytville OH	Ridge-town Ont.	Center-ville SD	Arling-ton WI
BURLISON (L)		7	6	9	6	4	
KENWOOD (II)		09/19	09/22	10/07	09/20	09/18	
STURDY (I)		0	-7	-1	-2	-3	
LL86-1615		3	2	-1	7	2	
LN84-8339		2	5	3	3	2	
LN84-8588		4	4	3	3	0	
LN85-5352		2	5	4	3	1	
LN85-6747		1	1	1	0	0	
LN85-6800		3	6	2	4	0	
LN85-7355		0	6	-1	3	-1	
LN85-9245		1	6	5	3	0	
LN85-9442		3	8	4	4	2	
LN86-983		0	1	0	1	0	
LN86-1073		1	-1	-1	-2	-2	
LN86-1088		9	9	3	7	5	
LN86-1105		-1	0	0	-1	-2	
LN86-1578		4	12	1	3	-1	
LN86-1735		3	11	1	2	0	
U8671056		4	3	4	4	2	
U8765087		3	-1	2	3	-4	
U8770014		5	8	6	6	2	
HOYT (dt)		0	7	1	4	-1	
HC84-468		13	11	10	13	8	
HC84-919		13	8	7	13	6	
HC84-923		14	10	8	13	7	
HC85-159		9	5	6	7	3	
HC85-466		9	12	8	12	3	
HC85-477		11	-1	6	12	3	
HC85-768		14	19	9	13	7	
HC85-1232		13	13	8	9	5	
HC85-1348		11	11	9	12	6	
HC85-1440		10	9	9	10	4	
HC85-2620		9	8	9	12	3	
Date Planted		05/19	05/31	06/26	05/17	05/10	
Days to Mature		123	114	103	126	131	

UNIFORM PRELIMINARY TEST IIB, 1989

LODGING (score)

Strain	Mean 12 Tests	Ames IA	Marshall-town IA	Urbana IL	Lafay-ette IN	Britton MI
BURLISON (L)	1.4	1.8	1.5	1.0	1.0	1.5
KENWOOD (II)	1.8	1.8	2.0	1.0	1.0	1.5
STURDY (I)	1.5	2.0	1.5	1.0	1.0	1.0
LL86-1615	1.6	1.8	1.3	2.5	1.0	2.0
LN84-8339	1.2	1.5	1.1	1.0	1.0	1.0
LN84-8588	1.3	1.6	1.2	1.0	1.0	1.0
LN85-5352	1.6	2.0	1.7	1.5	1.0	1.5
LN85-6747	1.2	1.3	1.2	1.0	1.0	1.0
LN85-6800	1.6	2.5	1.6	1.0	1.0	1.5
LN85-7355	1.9	2.3	2.1	1.5	1.3	2.0
LN85-9245	1.5	1.7	1.3	1.0	1.0	1.5
LN85-9442	1.5	1.8	1.6	1.0	1.0	1.5
LN86-983	1.8	2.0	2.3	1.0	1.0	2.0
LN86-1073	1.4	1.6	1.3	1.0	1.0	1.0
LN86-1088	2.1	2.0	2.2	1.5	1.0	2.0
LN86-1105	2.1	2.5	2.5	1.5	1.3	2.0
LN86-1578	2.2	2.9	2.9	2.0	1.0	2.0
LN86-1735	3.0	3.4	3.1	3.0	2.8	3.0
U8671056	1.6	1.9	1.6	1.5	1.3	1.5
U8765087	1.8	2.0	1.4	2.0	1.0	2.0
U8770014	1.7	2.0	1.7	1.5	1.0	1.5
HOYT (dt)	1.5	1.3	2.1	1.0	1.0	1.5
HC84-468	2.4	3.4	3.5	1.0	1.5	3.0
HC84-919	1.2	1.3	1.3	1.0	1.0	1.0
HC84-923	1.2	1.3	1.3	1.0	1.0	1.0
HC85-159	1.7	1.3	1.6	1.0	1.0	3.0
HC85-466	1.5	1.3	2.0	1.0	1.0	1.5
HC85-477	1.8	1.3	2.1	1.0	1.0	3.5
HC85-768	1.1	1.3	1.3	1.0	1.0	1.0
HC85-1232	1.1	1.2	1.2	1.0	1.0	1.0
HC85-1348	1.2	1.3	1.3	1.0	1.0	1.0
HC85-1440	1.2	1.3	1.3	1.0	1.0	1.0
HC85-2620	1.1	1.2	1.3	1.0	1.0	1.0

UNIFORM PRELIMINARY TEST IIB, 1989

LODGING (score)

Strain	Concord NE	Mead NE	Adelphia NJ	Hoytville OH	Ridge-town Ont.	Center-ville SD	Arling-ton WI
BURLISON (L)	1.0	1.0	1.5	1.3	1.0	1.0	2.3
KENWOOD (II)	1.0	1.0	4.0	1.5	2.1	1.0	2.5
STURDY (I)	1.0	1.0	3.0	1.1	1.0	1.0	3.0
LL86-1615	1.0	1.0	2.0	1.1	1.1	1.0	2.8
LN84-8339	1.0	1.0	1.5	1.1	1.0	1.0	2.0
LN84-8588	1.0	1.0	1.5	1.5	1.0	1.0	2.0
LN85-5352	1.0	1.0	3.0	1.2	1.1	1.0	2.5
LN85-6747	1.0	1.0	1.5	1.2	1.2	1.0	1.8
LN85-6800	1.0	1.0	2.5	1.2	1.1	1.0	3.0
LN85-7355	1.0	1.0	3.0	1.2	2.2	1.0	3.0
LN85-9245	1.0	1.0	2.5	1.1	1.0	1.0	3.3
LN85-9442	1.0	1.0	1.5	1.2	1.1	1.0	3.8
LN86-983	1.0	1.0	3.0	1.4	1.5	1.0	3.8
LN86-1073	1.0	1.0	3.0	1.2	1.0	1.0	1.8
LN86-1088	1.0	1.0	4.0	1.3	2.4	1.0	4.3
LN86-1105	1.0	1.0	3.5	1.5	2.1	1.0	4.3
LN86-1578	1.0	1.3	3.0	1.5	1.9	1.0	4.3
LN86-1735	1.0	1.5	4.5	1.7	3.5	1.0	5.0
U8671056	1.0	1.0	2.5	1.1	1.3	1.0	2.8
U8765087	1.0	1.0	3.0	1.3	1.9	1.0	3.0
U8770014	1.0	1.0	2.0	1.2	2.3	1.0	3.8
HOYT (dt)	1.0	1.0	2.5	1.3	1.9	1.0	2.0
HC84-468	1.0	2.3	2.5	1.4	3.7	1.0	3.3
HC84-919	1.0	1.0	1.0	1.4	1.3	1.0	1.5
HC84-923	1.0	1.0	1.0	1.9	1.2	1.0	1.8
HC85-159	1.0	1.0	3.0	1.5	2.7	1.0	1.5
HC85-466	1.0	1.0	2.0	1.5	2.1	1.0	1.8
HC85-477	1.0	1.0	3.0	1.8	3.3	1.0	1.3
HC85-768	1.0	1.0	1.5	1.4	1.0	1.0	1.0
HC85-1232	1.0	1.0	1.0	1.3	1.2	1.0	1.5
HC85-1348	1.0	1.0	1.5	1.4	1.4	1.0	1.5
HC85-1440	1.0	1.0	1.0	1.4	1.4	1.0	1.5
HC85-2620	1.0	1.0	1.0	1.4	1.0	1.0	1.0

UNIFORM PRELIMINARY TEST IIB, 1989

PLANT HEIGHT (inches)

Strain	Mean 12 Tests	Ames IA	Marshall-town IA	Urbana IL	Lafay-ette IN	Britton MI
BURLISON (L)	33	37	37	34	34	35
KENWOOD (II)	34	40	36	34	31	34
STURDY (I)	32	40	34	37	29	33
LL86-1615	30	35	30	34	27	36
LN84-8339	32	40	35	37	28	33
LN84-8588	31	37	32	34	29	29
LN85-5352	31	36	32	33	29	33
LN85-6747	31	38	34	32	27	28
LN85-6800	35	40	40	37	32	36
LN85-7355	34	40	36	37	31	38
LN85-9245	36	42	37	38	34	33
LN85-9442	32	36	30	36	29	37
LN86-983	35	40	34	38	32	35
LN86-1073	29	35	30	31	24	29
LN86-1088	36	38	38	40	32	38
LN86-1105	32	37	36	36	32	29
LN86-1578	36	41	37	38	36	38
LN86-1735	35	40	37	39	33	38
U8671056	34	40	40	36	33	35
U8765087	37	43	38	41	35	35
U8770014	38	44	43	40	36	32
HOYT (dt)	25	28	27	24	23	27
HC84-468	35	40	38	36	35	37
HC84-919	27	29	30	25	23	29
HC84-923	25	27	26	25	24	26
HC85-159	26	29	31	29	24	31
HC85-466	27	30	34	26	25	26
HC85-477	27	32	30	27	23	29
HC85-768	26	27	32	26	24	28
HC85-1232	25	28	33	28	24	24
HC85-1348	26	29	32	25	25	27
HC85-1440	25	28	30	25	23	25
HC85-2620	24	26	29	22	25	24

UNIFORM PRELIMINARY TEST IIB, 1989

PLANT HEIGHT (inches)

Strain	Concord NE	Mead NE	Adelphia NJ	Hoytville OH	Ridge-town Ont.	Center-ville SD	Arling-ton WI
BURLISON (L)	27	33	28	22	35	34	35
KENWOOD (II)	32	31	35	24	35	33	37
STURDY (I)	27	30	28	21	33	33	35
LL86-1615	22	27	26	20	30	30	32
LN84-8339	25	29	31	19	32	32	32
LN84-8588	24	32	30	22	30	32	34
LN85-5352	28	34	31	21	31	33	33
LN85-6747	28	31	31	20	29	36	34
LN85-6800	26	37	33	25	35	35	38
LN85-7355	26	35	33	22	35	35	35
LN85-9245	28	35	37	24	38	36	39
LN85-9442	27	30	31	24	32	33	34
LN86-983	26	36	36	22	36	35	36
LN86-1073	22	33	30	20	25	30	28
LN86-1088	28	41	37	24	36	35	37
LN86-1105	26	31	35	21	29	30	34
LN86-1578	35	36	36	25	36	36	35
LN86-1735	28	35	33	22	37	34	36
U8671056	26	30	32	24	35	36	37
U8765087	26	37	37	26	36	37	39
U8770014	31	36	39	26	39	42	41
HOYT (dt)	26	22	26	17	30	24	24
HC84-468	33	32	30	23	38	36	35
HC84-919	23	26	27	19	32	27	25
HC84-923	25	23	22	17	32	25	24
HC85-159	26	23	27	19	28	25	22
HC85-466	25	23	25	20	31	27	26
HC85-477	25	25	28	21	33	26	21
HC85-768	25	25	26	19	27	28	23
HC85-1232	23	23	25	18	27	25	23
HC85-1348	23	24	24	20	29	25	25
HC85-1440	23	23	25	17	29	23	24
HC85-2620	22	22	24	17	27	25	19

UNIFORM PRELIMINARY TEST IIB, 1989

SEED QUALITY (score)

Strain	Mean 11 Tests	Ames IA	Marshall-town IA	Urbana IL	Lafay-ette IN	Britton MI
BURLISON (L)	2.3	1.5	1.5	2.0	1.5	
KENWOOD (II)	2.0	1.0	1.0	1.8	1.5	
STURDY (I)	2.3	1.5	1.5	1.7	1.5	
LL86-1615	2.0	2.0	2.0	1.2	1.0	
LN84-8339	2.3	1.5	1.5	1.8	1.5	
LN84-8588	2.0	1.5	1.5	1.5	1.5	
LN85-5352	2.3	2.0	1.5	1.8	1.0	
LN85-6747	2.0	2.0	1.5	2.2	1.5	
LN85-6800	2.1	2.0	1.0	1.7	1.5	
LN85-7355	2.2	1.5	1.0	1.7	1.5	
LN85-9245	2.2	1.0	1.5	1.2	1.5	
LN85-9442	2.1	1.5	1.0	1.9	1.5	
LN86-983	2.2	1.0	1.0	1.5	1.5	
LN86-1073	2.1	1.5	1.5	1.4	1.5	
LN86-1088	2.4	2.0	2.0	2.0	1.5	
LN86-1105	2.3	1.0	1.5	1.4	2.0	
LN86-1578	2.3	1.5	1.5	1.7	1.5	
LN86-1735	2.5	1.5	1.5	1.8	2.0	
U8671056	2.4	1.5	1.5	1.6	1.5	
U8765087	2.2	1.5	1.0	1.8	1.5	
U8770014	2.2	2.0	1.5	1.7	1.5	
HOYT (dt)	2.0	1.5	1.5	1.5	1.0	
HC84-468	2.3	3.0	3.0	1.2	1.0	
HC84-919	2.3	2.5	3.0	1.7	1.5	
HC84-923	2.4	3.0	3.0	1.4	1.5	
HC85-159	2.2	2.0	2.0	1.7	1.0	
HC85-466	1.8	1.5	2.0	1.9	1.5	
HC85-477	2.0	2.0	2.5	1.5	1.0	
HC85-768	2.0	2.0	2.5	1.9	1.5	
HC85-1232	1.7	2.0	2.0	1.7	1.0	
HC85-1348	1.9	1.5	2.0	1.2	1.0	
HC85-1440	2.0	2.0	2.0	1.2	1.0	
HC85-2620	1.9	2.0	2.0	1.4	1.5	

UNIFORM PRELIMINARY TEST IIB, 1989

SEED QUALITY (score)

Strain	Concord NE	Mead NE	Adelphia NJ	Hoytville OH	Ridge-town Ont.	Center-ville SD	Arling-ton WI
BURLISON (L)	3.0	2.0	5.0	2.0	1.0	3.0	3.0
KENWOOD (II)	2.0	2.5	5.0	1.6	1.0	3.0	2.0
STURDY (I)	2.0	3.0	3.5	2.3	1.0	4.0	3.0
LL86-1615	3.0	1.5	3.0	1.3	1.0	3.0	3.5
LN84-8339	3.0	2.5	4.0	1.9	1.0	5.0	2.0
LN84-8588	2.0	2.0	3.5	2.4	1.0	3.0	2.5
LN85-5352	3.0	2.0	4.5	1.6	1.0	5.0	2.5
LN85-6747	2.0	2.0	4.5	1.5	1.0	3.0	2.0
LN85-6800	2.5	2.5	5.0	1.7	1.0	3.0	2.0
LN85-7355	1.8	2.5	4.5	1.5	1.0	4.0	3.0
LN85-9245	2.0	2.5	4.5	1.4	1.0	4.0	3.0
LN85-9442	3.0	2.5	3.5	1.8	1.0	3.0	3.0
LN86-983	2.0	2.5	5.0	2.4	1.0	4.0	2.5
LN86-1073	3.0	2.5	4.5	2.6	1.0	3.0	1.5
LN86-1088	2.5	2.5	4.5	2.1	1.0	5.0	1.5
LN86-1105	2.0	3.0	4.0	2.0	1.0	4.0	3.0
LN86-1578	2.5	2.5	4.5	2.0	1.0	3.0	3.5
LN86-1735	2.5	3.0	5.0	2.4	1.0	4.0	3.0
U8671056	2.5	2.5	4.5	1.5	1.0	5.0	3.0
U8765087	3.0	2.5	3.0	2.5	1.0	4.0	3.0
U8770014	3.0	2.0	4.0	2.0	1.0	4.0	2.5
HOYT (dt)	2.3	2.5	4.0	2.3	1.0	3.0	2.0
HC84-468	4.3	1.5	2.0	1.3	2.0	4.0	3.5
HC84-919	3.0	1.5	2.0	1.6	1.0	5.0	3.5
HC84-923	2.5	2.0	3.0	1.7	1.0	4.0	3.5
HC85-159	3.0	2.0	4.0	2.1	1.0	3.0	3.0
HC85-466	3.0	1.5	1.5	1.5	1.0	3.0	2.5
HC85-477	2.5	2.0	3.5	1.5	1.0	3.0	2.0
HC85-768	2.5	2.5	1.5	1.4	1.0	3.0	2.5
HC85-1232	2.5	2.0	1.5	1.2	1.0	2.0	2.5
HC85-1348	3.0	1.5	1.0	1.3	1.0	5.0	3.0
HC85-1440	3.0	2.0	3.0	1.4	1.0	3.0	3.0
HC85-2620	3.0	1.5	2.5	1.5	1.0	3.0	3.0

UNIFORM PRELIMINARY TEST IIB, 1989

SEED SIZE (g\100)

Strain	Mean 11 Tests	Ames IA	Marshall-town IA	Urbana IL	Lafay-ette IN	Britton MI
BURLISON (L)	17.8	18.8	17.9	16.8	17.9	19.9
KENWOOD (II)	15.0	15.5	14.4	15.3	13.9	15.6
STURDY (I)	18.1	18.3	18.4	20.4	17.7	18.1
LL86-1615	13.3	12.8	12.6	13.1	14.7	14.0
LN84-8339	18.9	19.4	18.3	20.5	18.5	19.0
LN84-8588	16.3	15.9	15.3	18.1	16.2	15.8
LN85-5352	18.2	19.7	17.4	18.1	19.4	19.6
LN85-6747	16.3	16.1	15.8	16.4	17.8	15.3
LN85-6800	15.8	16.1	15.0	15.5	16.3	15.9
LN85-7355	16.9	18.2	16.2	17.2	17.4	17.8
LN85-9245	18.0	18.4	18.1	17.0	17.7	18.8
LN85-9442	16.7	17.6	16.2	15.8	16.6	17.6
LN86-983	15.9	17.1	15.3	15.1	15.4	16.0
LN86-1073	17.5	18.5	17.1	17.9	16.0	17.4
LN86-1088	18.9	20.0	18.7	19.5	18.6	20.9
LN86-1105	18.3	18.2	17.0	19.7	17.8	18.0
LN86-1578	19.9	20.8	19.9	21.0	19.3	20.8
LN86-1735	20.2	20.5	19.7	23.2	21.0	20.8
U8671056	14.8	15.2	14.4	15.8	15.7	14.1
U8765087	16.7	17.0	15.6	17.9	16.9	17.6
U8770014	19.1	19.6	19.1	20.3	19.2	19.9
HOYT (dt)	14.1	14.1	13.2	13.4	14.7	14.0
HC84-468	15.6	14.2	13.4	18.5	18.6	15.8
HC84-919	17.8	16.1	15.9	19.2	22.3	20.3
HC84-923	16.6	15.0	14.5	17.8	20.5	19.1
HC85-159	15.6	15.0	14.1	15.6	17.6	16.9
HC85-466	15.5	14.3	13.8	15.8	18.7	15.7
HC85-477	15.8	16.0	14.5	16.1	17.9	16.2
HC85-768	16.5	15.6	16.1	17.9	18.1	17.5
HC85-1232	15.7	15.4	14.7	16.6	17.1	15.8
HC85-1348	15.1	14.2	13.8	16.0	17.8	14.8
HC85-1440	16.5	15.6	15.7	18.7	18.3	16.7
HC85-2620	17.7	17.6	17.0	19.7	18.7	18.5

UNIFORM PRELIMINARY TEST IIB, 1989

SEED SIZE (g\100)

Strain	Concord NE	Mead NE	Adelphia NJ	Hoytville OH	Ridge-town Ont.	Center-ville SD	Arling-ton WI
BURLISON (L)	18.3	19.4	19.0	16.3		16.1	16.3
KENWOOD (II)	14.9	16.9	15.5	14.8		13.8	14.6
STURDY (I)	16.5	21.1	17.5	17.2		15.2	17.3
LL86-1615	13.9	14.1	14.0	11.6		13.6	12.5
LN84-8339	20.2	21.6	20.0	16.2		18.5	17.1
LN84-8588	17.0	18.4	18.5	14.0		15.9	14.7
LN85-5352	18.4	19.1	20.5	15.7		16.4	16.5
LN85-6747	16.9	18.7	17.0	15.0		15.6	15.3
LN85-6800	17.1	18.2	17.0	14.2		14.6	14.8
LN85-7355	17.5	17.7	19.5	13.8		15.8	15.6
LN85-9245	18.2	20.2	20.5	16.2		16.5	17.0
LN85-9442	17.0	19.1	18.0	14.3		15.8	15.8
LN86-983	17.8	19.1	17.0	13.5		15.7	14.4
LN86-1073	18.6	20.8	20.5	14.2		16.8	16.2
LN86-1088	19.2	19.8	21.0	15.6		17.4	17.0
LN86-1105	19.0	21.4	20.0	16.3		17.8	17.2
LN86-1578	19.4	21.0	23.5	16.8		17.7	17.9
LN86-1735	20.4	20.9	23.5	15.8		18.9	17.9
U8671056	15.8	17.7	14.5	12.5		14.6	13.8
U8765087	17.7	18.7	17.0	15.1		14.8	15.9
U8770014	20.9	21.7	20.5	16.1		17.6	16.7
HOYT (dt)	13.5	15.8	15.0	12.6		14.3	13.8
HC84-468	12.9	16.9	19.5	11.7		15.1	12.1
HC84-919	15.5	18.7	20.0	14.2		15.6	15.4
HC84-923	14.4	18.4	18.0	13.5		15.3	14.2
HC85-159	14.5	19.0	16.5	11.9		15.4	14.2
HC85-466	13.9	16.8	18.5	13.0		14.9	13.8
HC85-477	15.6	20.2	15.5	12.8		14.8	14.4
HC85-768	15.1	17.8	19.5	12.8		15.3	14.8
HC85-1232	15.0	17.8	18.5	12.3		14.5	13.9
HC85-1348	14.2	16.8	17.0	11.8		14.5	13.9
HC85-1440	15.8	18.9	18.5	12.5		14.9	15.0
HC85-2620	15.6	19.7	19.0	13.7		16.5	16.8

UNIFORM PRELIMINARY TEST IIB, 1989

PROTEIN (%)

Strain	Mean 4 Tests	Ames IA	Urbana IL	Lafayette IN	Mead NE
BURLISON (L)	40.7	39.7	40.1	40.0	43.1
KENWOOD (II)	37.8	38.4	36.0	38.5	38.4
STURDY (I)	39.4	38.4	38.3	40.1	40.8
LL86-1615	41.4	40.5	40.2	41.0	43.9
LN84-8339	39.8	39.5	38.4	39.7	41.5
LN84-8588	37.2	37.1	35.8	36.5	39.5
LN85-5352	40.3	39.9	40.5	39.1	41.5
LN85-6747	36.8	36.7	34.5	36.1	39.8
LN85-6800	38.5	39.1	38.2	36.0	40.6
LN85-7355	40.0	40.5	39.0	38.7	41.7
LN85-9245	38.9	39.2	37.9	37.9	40.5
LN85-9442	36.5	37.4	33.5	36.2	39.0
LN86-983	37.2	36.9	36.4	36.5	39.1
LN86-1073	38.1	38.3	36.7	37.4	40.1
LN86-1088	36.8	37.7	34.4	35.5	39.4
LN86-1105	36.9	37.3	36.2	35.0	39.1
LN86-1578	40.1	39.4	40.2	39.3	41.5
LN86-1735	40.5	40.6	40.9	39.1	41.4
U8671056	40.2	40.5	38.5	39.3	42.3
U8765087	39.0	39.0	38.1	37.5	41.2
U8770014	39.4	39.9	38.8	37.7	41.0
HOYT (dt)	39.4	40.0	38.3	38.7	40.6
HC84-468	38.1	37.7	37.3	37.5	39.7
HC84-919	38.8	38.6	37.4	39.0	40.2
HC84-923	39.3	38.9	37.6	39.9	40.6
HC85-159	38.2	38.2	36.6	37.7	40.3
HC85-466	39.7	39.5	38.6	40.3	40.4
HC85-477	37.0	37.1	36.3	35.7	39.0
HC85-768	39.3	39.2	38.2	39.4	40.3
HC85-1232	40.1	40.6	39.0	39.6	41.2
HC85-1348	39.7	40.0	38.5	39.5	40.9
HC85-1440	38.5	38.2	38.5	37.9	39.4
HC85-2620	37.0	37.8	35.9	35.6	38.7

UNIFORM PRELIMINARY TEST IIB, 1989

OIL (%)

Strain	Mean 4 Tests	Ames IA	Urbana IL	Lafayette IN	Mead NE
BURLISON (L)	19.7	19.3	20.6	20.6	18.2
KENWOOD (II)	21.7	21.2	21.9	22.4	21.1
STURDY (I)	21.4	20.1	21.6	22.6	21.1
LL86-1615	19.5	20.2	19.3	20.9	17.6
LN84-8339	21.3	20.1	21.4	23.0	20.6
LN84-8588	21.3	21.1	21.5	22.1	20.4
LN85-5352	19.5	19.6	18.9	20.3	19.3
LN85-6747	21.7	21.1	22.6	21.8	21.2
LN85-6800	21.6	20.9	21.9	22.5	21.2
LN85-7355	20.4	20.0	20.9	21.0	19.6
LN85-9245	20.8	20.3	20.8	21.2	20.9
LN85-9442	21.6	20.6	22.3	22.2	21.3
LN86-983	21.3	21.0	21.2	21.6	21.5
LN86-1073	21.4	20.9	22.0	21.6	21.0
LN86-1088	20.7	19.7	21.8	21.2	19.9
LN86-1105	21.9	21.9	22.3	21.9	21.6
LN86-1578	20.2	20.1	20.8	19.9	20.1
LN86-1735	20.7	19.7	21.0	21.3	20.6
U8671056	20.4	20.3	21.2	20.2	20.0
U8765087	21.2	21.4	21.2	21.3	20.8
U8770014	20.6	19.4	21.3	21.1	20.5
HOYT (dt)	20.6	20.1	21.3	20.6	20.3
HC84-468	21.3	21.0	21.6	21.6	20.9
HC84-919	20.9	20.5	21.6	20.5	20.8
HC84-923	21.1	21.1	21.8	21.0	20.6
HC85-159	21.6	21.8	22.3	21.6	20.8
HC85-466	20.7	20.6	21.8	19.8	20.6
HC85-477	22.0	21.7	22.3	22.2	21.9
HC85-768	20.7	21.6	20.9	20.4	19.9
HC85-1232	20.4	20.4	20.8	20.1	20.1
HC85-1348	21.0	21.0	21.2	20.7	21.2
HC85-1440	20.6	20.1	21.3	20.7	20.2
HC85-2620	22.4	21.3	23.2	22.8	22.2

UNIFORM TEST III, 1989

Strain	Parentage	Previous* Testing	Generation Composited	Unique Traits
Burlison (L)	K74-113-76-486 x Century	-	F5	Rps1-b, Rps3
Cartter (SCN)	Williams (2) x PI 88.788	1	F6	SCN 3,4
Dunfield	Selection from PI 36.846	2	-	
Flyer (IV)	Asgrow A3127 (4) x Williams 82	3	BC3 F2	Rps1-k
Hobbit 87 (dt)	Hobbit (6) x Williams 82	3	BC5 F3	Rps1-k
Resnik	Asgrow A3127 (4) x Williams 82	3	BC3 F3	Rps1-k
A86-203034	A81-356022 x Zane	UTII	F5	
A86-204022	Hack x Zane	UTII	F5	
A86-301024	A81-356022 x Hack	1	F5	
A86-303014	A81-356022 x Hack	1	F5	
A87-395012	Fayette x Asgrow A3659	SCN IIIA	F5	SCN 3
A87-296011	Harper x A80-346029	PTIIA	F5	BSR Resis.
A87-296012	Harper x A80-346029	PTIIA	F5	BSR Resis.
A87-396020	Harper x A80-346029	PTIIIA	F5	BSR Resis.
C1720	HW79015 x A79-334010	1	F6	
HC83-4532	L74D-634 x Hobbit	2	F5	dt1
HC84-180	Hobbit x K74-104-76-205	PTIIB	F5	dt1
HC84-1060	A72-512 x HC74-3400	PTIIB	F5	dt1
HC84-4874	Hobbit x Williams 82	PTIVB	F5	Dt1
HC85-5273	Asgrow A3127 x Forrest	PTIVB	F5	Dt1
HC85-6500	Pixie x HC78-676	PTIIIB	F5	dt1
HC85-6521	Coker 237 x HC78-676	PTIIIB	F5	dt1
HC85-6577	HC78-350 x HC78-676	PTIVB	F5	dt1
HC85-6724	HC74-634RE x HC78-676	PTIIIB	F5	dt1
HM8597	HW79116 x HW79022	1	F6	
HM8632	Zane (3) x HW79149	1	BC2 F3	
HM8636	Zane (3) x HW79149	1	BC2 F3	
HM8776	A80-147003 x Asgrow A3127 (4)	PTIIIB	F6	Rps1-k
HM8777	A79-236002 (2) x Century 84	PTIIIB	BC1 F3	Rps1-k
LN84-2418	A78-227015 x Asgrow A3127	PTIIIA	F5	
LN84-3321	HW79149 x HW79015	PTIIIA	F5	PR 1,3 Resis
LN84-18266	LN80-9452 x Asgrow A3127	1	F5	
Md83-2048	BSR 301 x Essex	2	F6	
U85-71084	Platte x Asgrow A3127	PTIIIA	F5	
U85-74089	Platte x Asgrow A3127	PTIIIA	F5	

* Number of years in test or name of 1988 test.

UNIFORM TEST III, 1989

DESCRIPTIVE DATA

Strain	Descriptive Code	Chlorosis Score Ames	Chlorosis Score Lamber-ton	Emerg. Score Ames	Shattering Score Man-hattan	Shattering Score Lubbock 09/30	Shattering Score Lubbock 10/09
BURLISON (II)	WTTSBlI	2.2	2.5	1	1	2.0	3.3
CARTTER (SCN)	WTTSBlI	3.8	4.5	2	2	2.0	4.0
DUNFIELD	WGTSBfI	4.4	4.0	1	2	2.3	4.5
FLYER (IV)	PTTSBlI	3.8	3.0	1	1	1.5	2.3
HOBBIT 87 (dt)	WTTSBlD	3.6	2.5	1	1	1.0	2.8
RESNIK (III)	PTTSBlI	4.5	3.5	1	1	1.5	3.3
A86-203034	PGBSIbI	4.8	4.0	3	1	1.0	2.8
A86-204022	PGBSIbI	4.9	3.5	3	1	1.5	3.0
A86-301024	PGBSIbI	4.5	3.5	2	1	1.5	2.8
A86-303014	PTTSBlI	4.9	4.0	2	1	1.0	2.5
A87-395012	WTTSBlI	3.5	3.0	2	1	1.0	3.0
A87-296011	PTBDBrI	3.2	3.5	1	1	1.0	3.5
A87-296012	WTBDBrI	4.1	3.5	1	1	1.5	3.5
A87-396020	PTBSBlI	4.0	2.5	1	1	1.3	3.0
C1720	PGBDIbI	3.2	3.0	3	1	1.3	2.8
HC83-4532	WTTDBlD	3.5	3.0	1	1	1.3	3.0
HC84-180	PTTSBlD	4.1	4.0	1	1	1.0	2.3
HC84-1060	WGBSBfD	4.0	3.5	1	2	1.5	3.8
HC84-4874	WTTSBlI	3.8	3.0	3	1	1.0	2.2
HC85-5273	PTTDBlI	4.5	4.5	3	1	1.3	2.5
HC85-6500	PTBSBlD	2.6	2.5	1	1	1.5	2.8
HC85-6521	PTBSBlD	3.0	2.5	2	2	1.5	3.3
HC85-6577	PTTDBlD	3.2	2.5	1	1	1.0	2.8
HC85-6724	PTTSBlD	4.0	2.0	1	1	1.5	2.8
HM8597	PTTSBlD	4.2	3.0	1	1	1.0	2.0
HM8632	PGBSIbI	4.8	2.5	2	1	1.5	3.3
HM8636	PGBSIbI	3.8	3.0	2	1	2.0	4.0
HM8776	P+WTTSBl+BrI	5.0	5.0	1	2	1.0	3.3
HM8777	PTBDBlI	4.9	4.0	1	1	1.0	2.8
LN84-2418	PTTDBrI	4.8	3.0	2	1	1.3	2.3
LN84-3321	PGBDBfI	4.5	3.0	5	1	1.3	2.3
LN84-18266	PTBDBlI	3.9	3.0	2	2	1.0	2.8
MD83-2048	PTTDBlI	4.4	3.0	1	1	1.0	2.0
U85-71084	PTBSGI	4.2	4.5	3	1	1.5	3.3
U85-74089	PGTSIbI	3.2	3.5	2	1	1.0	3.0

UNIFORM TEST III, 1989

DISEASE DATA

Strain	BTS Ames a Score	BSR-Ames Plant n %	BSR-Ames Stem n %	PR Ames Race 4 Reaction	PR Urbana Race 1	PS Lafayette a %	PSB Lafayette n %	SMV Lafayette a Score
BURLISON (II)	3	100.0	85.0	R	R	28	28	3E
CARTTER (SCN)	2	100.0	75.1	S	S	6	14	4E
DUNFIELD	2	100.0	86.3	S	R	21	42	2M
FLYER (IV)	3	100.0	89.2	H	R	8	10	4E
HOBBIT 87 (dt)	3	100.0	92.3	R	R	4	14	4E
RESNIK (III)	3	100.0	91.3	R	R	22	26	3E
A86-203034	3	100.0	56.7	S	R	10	4	2E
A86-204022	3	100.0	89.4	S	S	26	20	3E
A86-301024	3	100.0	77.7	S	R	26	12	2E
A86-303014	3	100.0	85.4	S	R	28	26	5E
A87-395012	4	100.0	76.6	S	R	16	26	2E
A87-296011	3	100.0	66.2	S	S	18	22	4E
A87-296012	3	100.0	86.3	S	S	20	16	4E
A87-396020	3	100.0	82.1	S	S	4	2	3M
C1720	2	100.0	84.6	S	M	34	2	4E
HC83-4532	4	100.0	90.7	S	S	10	12	4E
HC84-180	2	100.0	98.7	H	R	4	6	4E
HC84-1060	2	100.0	89.5	S	M	34	4	1
HC84-4874	3	100.0	62.6	S	S	18	12	2E
HC85-5273	3	100.0	62.8	S	S	24	8	3E
HC85-6500	4	100.0	91.4	S	R	18	20	5E
HC85-6521	3	100.0	100.0	S	R	26	8	4M
HC85-6577	2	100.0	99.0	S	R	6	28	3E
HC85-6724	3	100.0	94.6	S	S	4	72	5E
HM8597	3	100.0	78.6	R	R	24	4	4E
HM8632	3	100.0	71.2	R	R	26	18	3E
HM8636	3	100.0	77.4	R	R	20	24	5E
HM8776	3	100.0	83.3	R	R	16	8	5E
HM8777	2	100.0	96.8	R	R	28	18	5E
LN84-2418	3	100.0	69.8	S	S	16	10	5E
LN84-3321	3	100.0	87.7	S	R	32	8	4E
LN84-18266	3	100.0	77.8	S	S	14	18	2E
MD83-2048	3	100.0	51.4	S	S	12	10	3E
U85-71084	3	100.0	88.3	S	S	24	10	5S
U85-74089	3	100.0	78.8	S	R	66	0	2M

UNIFORM TEST III, 1988

REGIONAL SUMMARY

Strain	Yield	Rank	Maturity	Lodging	Plant Height	Seed Quality	Seed Size	Composition Protein	Composition Oil
No. of Tests	21	21	15	21	21	20	20	3	3
	bu/a	No.	Date	Score	Inches	Score	g/100	%	%
BURLISON (II)	48.2	23	-3.5	1.5	30	2.3	17.9	40.9	19.7
CARTTER (SCN)	44.3	34	-2.1	1.9	32	2.2	16.4	40.6	20.9
DUNFIELD	34.0	35	-4.1	3.2	37	2.4	15.6	36.5	21.8
FLYER (IV)	52.3	4	5.2	1.5	34	1.8	15.0	40.5	20.9
HOBBIT 87 (dt)	50.1	13	1.5	1.2	23	1.8	15.9	37.8	22.4
RESNIK (III)	51.2	7	09/25*	1.6	32	1.8	15.5	39.2	21.3
A86-203034	46.5	30	-3.2	2.0	33	2.1	17.9	37.9	21.2
A86-204022	50.5	11	-1.9	1.7	34	2.4	18.2	37.0	21.8
A86-301024	51.7	6	2.3	1.4	33	2.2	17.6	38.7	19.7
A86-303014	50.6	10	2.9	1.8	30	2.3	17.8	39.0	20.2
A87-395012	45.8	32	6.5	1.6	33	2.0	15.1	40.0	20.2
A87-296011	49.4	17	-1.3	1.3	27	2.1	18.1	38.3	21.1
A87-296012	49.6	15	-3.5	1.2	26	2.0	17.4	40.0	21.3
A87-396020	49.9	14	3.9	1.4	29	2.2	18.4	38.3	21.5
C1720	50.2	12	0.2	1.9	33	2.5	17.5	38.6	21.0
HC83-4532	50.9	8	0.3	1.4	22	2.0	17.9	38.3	21.8
HC84-180	47.9	25	-1.1	1.2	22	1.7	16.0	39.1	22.1
HC84-1060	46.5	30	-3.1	1.4	25	2.3	14.7	39.6	21.2
HC84-4874	48.3	22	5.8	2.1	37	1.8	17.0	39.0	21.4
HC85-5273	47.9	25	4.7	2.0	37	1.9	15.4	38.5	21.1
HC85-6500	50.8	9	3.9	1.6	26	2.0	15.6	37.8	20.8
HC85-6521	48.5	21	0.5	1.4	26	2.0	15.3	37.8	20.1
HC85-6577	53.3	1	4.8	1.3	23	2.0	17.8	38.7	21.4
HC85-6724	52.5	3	2.7	1.4	24	1.7	15.7	39.8	20.3
HM8597 Edison	53.1	2	2.8	1.4	31	1.6	14.8	38.3	21.5
HM8632	49.4	17	-4.1	1.7	32	2.6	18.8	37.8	21.2
HM8636	48.7	19	-3.1	1.8	32	2.9	18.6	39.6	21.5
HM8776	47.6	28	2.9	1.7	29	2.2	14.2	39.7	20.7
HM8777	48.2	23	-1.4	2.0	33	2.6	15.8	36.8	21.2
LN84-2418	47.9	25	0.8	1.7	30	2.1	15.1	38.7	21.1
LN84-3321	47.3	29	1.9	1.9	33	1.9	14.4	37.1	21.5
LN84-18266	48.6	20	-0.7	1.8	31	2.1	15.8	38.6	21.7
MD83-2048	49.6	15	5.5	1.5	34	1.9	14.6	38.9	21.2
U85-71084	45.4	33	2.0	1.7	35	2.3	15.1	38.9	21.8
U85-74089	51.9	5	1.8	1.5	33	2.0	14.9	38.9	21.3

*125.7 Days after planting

UNIFORM TEST III, 1989

1988-1989 2-YEAR MEAN

	Yield	Rank	Maturity	Lodging	Plant Height	Seed Quality	Seed Size	Composition Protein	Composition Oil
No. of Tests	44	44	34	44	43	41	42	8	8
Strain	bu/a	No.	Date	Score	In.	Score	g/100	%	%
Cartter (SCN)	42.2	13	-3.0	1.6	34	2.2	16.1	40.8	21.4
Dunfield	31.4	14	-5.0	2.8	38	2.8	15.0	38.2	21.8
Flyer (IV)	47.2	4	4.8	1.4	34	1.8	14.2	41.2	20.6
Hobbit 87 (dt)	45.0	12	1.1	1.2	22	1.7	15.3	40.0	22.8
Resnik (III)	47.0	5	09/23*	1.4	32	1.8	14.6	40.5	21.1
A86-301024	47.4	2	0.8	1.3	32	2.2	17.1	39.4	20.4
A86-303014	47.4	2	1.9	1.6	32	2.3	17.3	40.0	20.6
C1720	46.1	7	-0.2	1.7	34	2.4	16.6	39.6	20.0
HC 83-4532	45.9	9	0.2	1.3	22	1.9	16.8	39.2	22.2
HM8597 Edison	48.4	1	3.0	1.4	32	1.7	14.0	39.4	21.3
HM8632	45.7	10	-4.0	1.6	32	2.6	18.0	39.5	21.4
HM8636	45.1	11	-2.4	1.6	33	2.9	18.0	40.0	21.8
LN84-18266	46.0	8	-1.5	1.6	32	2.0	15.0	39.2	21.9
MD83-2048[1] Bass	46.3	6	4.8	1.4	35	2.0	14.2	39.4	21.4

*127.0 Days after planting
[1]Bass

1987-1989 3-YEAR MEAN

	Yield	Rank	Maturity	Lodging	Plant Height	Seed Quality	Seed Size	Composition Protein	Composition Oil
No. of Tests	66	66	53	66	65	59	61	13	13
Strain	bu/a	No.	Date	Score	In.	Score	g/100	%	%
Dunfield	31.9	6	-5.2	2.9	37	2.7	15.0	38.4	21.9
Flyer (IV)	48.4	1	5.6	1.4	35	1.7	13.8	40.9	20.8
Resnik (III)	48.0	2	09/20*	1.4	33	1.7	14.2	40.3	21.3
Hobbit 87 (dt)	45.1	5	1.3	1.2	22	1.7	14.9	37.9	22.8
HC83-4532	45.4	4	0.2	1.3	22	1.9	16.6	38.3	22.3
MD83-2048[1]	47.5	3	4.9	1.4	36	2.0	13.9	39.2	21.6

*126.4 Days after planting
[1]Bass

UNIFORM TEST III, 1989

YIELD (bu/a)

Strain	Mean 21 Tests	George-town DE	Middle-town DE	Winter set IA	Tingley IA	Carbon-dale IL	Ridgway IL
BURLISON (II)	48.2			52.0	26.6		42.6
CARTTER (SCN)	44.3			45.2	22.0		34.1
DUNFIELD	34.0			34.5	16.3		27.4
FLYER (IV)	52.3			54.3	27.1		47.4
HOBBIT 87 (dt)	50.1			56.9	26.0		26.1
RESNIK (III)	51.2			54.0	29.8		34.3
A86-203034	46.5			50.1	26.5		29.9
A86-204022	50.5			50.8	29.5		42.8
A86-301024	51.7			54.4	28.9		36.1
A86-303014	50.6			52.1	22.1		39.4
A87-395012	45.8			45.4	27.4		40.4
A87-296011	49.4			50.8	19.8		35.2
A87-296012	49.6			50.6	25.7		42.4
A87-396020	49.9			53.4	26.8		44.9
C1720	50.2			52.2	31.4		46.2
HC83-4532	50.9			58.2	27.3		38.9
HC84-180	47.9			52.3	27.8		27.0
HC84-1060	46.5			51.1	26.3		31.5
HC84-4874	48.3			46.3	26.5		40.8
HC85-5273	47.9			46.6	26.7		49.0
HC85-6500	50.8			54.6	24.4		42.6
HC85-6521	48.5			55.2	27.7		43.9
HC85-6577	53.3			57.4	27.5		39.4
HC85-6724	52.5			61.2	28.7		40.6
HM8597	53.1			54.3	28.8		39.4
HM8632	49.4			51.3	24.3		35.5
HM8636	48.7			51.5	30.9		30.0
HM8776	47.6			49.7	25.9		38.6
HM8777	48.2			56.3	19.6		35.5
LN84-2418	47.9			54.5	26.6		31.9
LN84-3321	47.3			53.1	27.1		39.3
LN84-18266	48.6			52.6	23.6		37.1
MD83-2048	49.6			52.8	29.9		53.8
U85-71084	45.4			46.9	26.4		32.3
U85-74089	51.9			57.7	32.4		49.4
C.V. (%)				4.9	12.5		14.9
L.S.D. (5%)				4.2	5.5		11.6
Row Sp. (in.)				27	27		30
Rows/Plot				4	4		4
Reps				3	3		2

UNIFORM TEST III, 1989

YIELD (bu/a)

Strain	Urbana IL	Lafay-ette IN	Lexing-ton KY	Man-hattan KS	Pow-hattan KS	Topeka KS
BURLISON (II)	62.7	42.4	44.6	60.2	32.3	58.5
CARTTER (SCN)	63.6	42.1	45.0	55.9	26.5	50.0
DUNFIELD	41.1	28.2	27.6	38.0	25.9	38.8
FLYER (IV)	73.6	50.7	52.9	68.6	35.3	62.5
HOBBIT 87 (dt)	66.7	46.7	47.2	70.1	33.1	64.2
RESNIK (III)	66.9	46.8	50.2	65.8	32.2	61.7
A86-203034	63.4	39.8	41.2	55.0	27.9	53.2
A86-204022	64.8	43.2	52.6	66.7	32.9	59.2
A86-301024	73.8	48.5	54.0	62.9	31.4	52.4
A86-303014	65.9	48.0	54.7	63.5	33.2	50.6
A87-395012	61.0	43.5	56.1	49.6	31.8	48.3
A87-296011	66.5	43.9	44.8	60.3	28.6	56.1
A87-296012	61.6	41.8	43.8	66.0	29.2	54.5
A87-396020	55.5	47.5	48.0	62.5	31.4	53.3
C1720	58.7	46.2	57.1	61.0	29.0	62.8
HC83-4532	53.2	46.8	46.6	63.0	34.0	50.9
HC84-180	52.2	42.0	46.9	59.9	34.2	38.6
HC84-1060	55.9	40.7	40.4	60.0	31.3	43.8
HC84-4874	60.3	44.9	56.3	52.8	36.7	54.8
HC85-5273	61.7	49.9	48.5	54.3	32.6	61.0
HC85-6500	63.3	45.4	58.2	67.1	33.1	56.3
HC85-6521	65.9	40.3	49.8	55.8	40.1	41.6
HC85-6577	69.8	43.8	53.1	62.1	34.1	52.5
HC85-6724	60.9	46.4	49.6	69.5	35.5	51.5
HM8597	68.2	51.8	56.0	66.7	31.5	67.1
HM8632	67.2	45.8	44.9	63.2	33.1	59.5
HM8636	60.1	44.3	50.7	62.5	32.0	55.1
HM8776	51.2	47.0	53.7	56.3	35.5	54.1
HM8777	53.5	42.6	45.0	63.8	30.2	59.5
LN84-2418	57.4	44.8	49.3	59.3	31.3	55.4
LN84-3321	60.2	41.8	48.6	55.6	27.0	49.9
LN84-18266	63.2	50.6	53.9	57.6	34.1	50.3
MD83-2048	65.5	50.5	55.8	60.2	34.1	61.5
U85-71084	47.0	46.0	54.7	65.9	34.1	53.9
U85-74089	66.4	48.1	55.2	54.7	34.1	56.1
C.V. (%)	8.7	5.5	7.8	6.9	10.0	10.3
L.S.D. (5%)	8.3	4.1	5.3	6.8	5.3	9.2
Row Sp. (in.)	30	24	30	30	30	30
Rows/Plot	4	4	4	4	4	4
Reps	3	3	3	3	3	3

UNIFORM TEST III, 1989

YIELD (bu/a)

Strain	Queens-town MD	Colum-bia MO	Lexing-ton NE	Lincoln NE	Oak NE	Adel-phia NJ	Hoyt-ville OH	Mt. Orab OH
BURLISON (II)	51.2	51.0	55.9	48.4	60.5	43.4	29.2	41.0
CARTTER (SCN)	45.7	49.2	51.7	42.6	57.7	46.1	22.2	38.1
DUNFIELD	37.4	37.8	37.1	27.6	45.7	33.7	29.4	26.0
FLYER (IV)	53.3	55.4	51.4	55.4	61.8	51.1	29.0	45.1
HOBBIT 87 (dt)	40.2	51.6	59.0	62.7	65.2	48.0	33.1	34.7
RESNIK (III)	49.3	53.2	53.8	59.9	68.5	46.5	32.9	39.1
A86-203034	46.2	49.7	56.8	43.3	62.6	48.6	27.1	37.7
A86-204022	50.8	55.1	57.7	55.6	64.3	46.1	32.1	39.6
A86-301024	50.2	52.8	55.1	58.0	62.3	60.6	29.7	51.2
A86-303014	48.6	52.5	51.6	54.5	65.8	58.9	29.0	41.2
A87-395012	51.8	48.9	45.5	47.7	54.4	48.7	30.2	39.3
A87-296011	49.9	48.9	60.9	58.0	66.0	52.8	32.4	50.8
A87-296012	49.6	48.3	67.7	64.7	67.4	49.2	31.0	23.9
A87-396020	47.1	51.2	56.3	61.9	68.5	47.5	31.4	45.5
C1720	49.8	53.3	52.1	52.3	65.0	39.6	29.7	41.6
HC83-4532	51.9	56.5	62.2	64.1	65.5	46.7	33.9	33.5
HC84-180	51.1	49.6	58.3	57.7	61.0	46.7	34.5	37.0
HC84-1060	51.4	42.0	56.1	57.9	61.7	39.5	32.1	38.6
HC84-4874	53.2	51.7	50.8	46.2	58.4	46.3	32.1	48.4
HC85-5273	50.4	51.1	53.7	43.7	54.6	43.8	27.0	41.9
HC85-6500	43.7	57.0	55.5	59.9	64.7	49.0	35.0	34.9
HC85-6521	48.0	55.3	55.0	62.7	62.3	32.5	31.4	39.6
HC85-6577	52.6	58.2	57.4	62.9	63.3	57.4	35.2	48.6
HC85-6724	52.8	57.7	60.1	65.5	67.2	54.3	32.1	34.7
HM8597	55.0	54.5	53.4	63.0	69.6	49.9	30.0	45.1
HM8632	49.5	54.8	51.6	56.2	65.0	40.6	28.6	45.4
HM8636	52.6	51.9	47.4	53.2	61.0	45.8	29.2	51.1
HM8776	45.0	53.6	45.5	57.7	57.4	38.2	29.7	44.4
HM8777	59.1	51.4	54.2	55.2	64.8	25.7	30.8	45.4
LN84-2418	52.6	47.6	54.8	55.3	61.3	50.6	24.9	44.5
LN84-3321	46.4	46.8	50.2	53.9	59.9	41.0	30.8	49.1
LN84-18266	46.5	54.6	50.4	47.3	64.5	46.3	30.9	44.5
MD83-2048	49.7	49.8	48.0	51.7	60.3	51.5	30.8	26.7
U85-71084	45.0	50.4	49.2	54.3	62.9	40.7	29.5	15.4
U85-74089	44.9	57.1	55.3	61.6	66.1	48.2	27.0	47.7
C.V. (%)	8.8	8.4	7.8	5.8	5.8	17.6	10.8	21.5
L.S.D. (5%)	7.1	7.1	6.9	5.1	5.9	7.3	5.4	14.2
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 III, 1989

Strain	So. Charleston OH	Wooster OH	Landisville PA	Elk Point SD
		YIELD (bu/a)		
BURLISON (II)	69.2	30.9	61.2	49.1
CARTTER (SCN)	63.0	25.1	54.0	49.6
DUNFIELD	50.1	28.0	45.4	38.3
FLYER (IV)	76.1	37.4	60.4	49.7
HOBBIT 87 (dt)	79.7	37.1	54.0	50.4
RESNIK (III)	80.3	37.8	57.6	54.3
A86-203034	66.5	37.7	64.2	49.5
A86-204022	68.9	37.2	62.3	48.1
A86-301024	74.4	40.2	58.9	49.4
A86-303014	78.5	44.1	58.1	51.0
A87-395012	63.5	30.4	55.3	43.3
A87-296011	68.8	34.9	59.4	49.5
A87-296012	64.3	36.4	65.0	58.7
A87-396020	71.8	31.8	58.7	53.6
C1720	75.7	35.3	65.1	49.2
HC83-4532	65.5	40.9	73.7	56.5
HC84-180	80.7	38.1	62.1	48.1
HC84-1060	73.6	34.3	56.9	52.4
HC84-4874	73.9	37.1	54.1	42.8
HC85-5273	69.0	35.9	55.7	48.5
HC85-6500	67.8	45.9	58.5	49.0
HC85-6521	66.5	37.0	61.6	47.2
HC85-6577	83.2	39.9	72.8	48.0
HC85-6724	80.9	35.5	61.6	55.8
HM8597	81.4	34.9	62.2	53.1
HM8632	72.9	33.8	65.4	49.7
HM8636	66.2	33.7	65.7	46.9
HM8776	69.9	36.5	57.0	51.7
HM8777	82.6	31.4	58.8	45.8
LN84-2418	65.0	33.0	57.9	48.0
LN84-3321	73.8	34.1	51.1	52.6
LN84-18266	70.2	35.9	55.4	52.0
MD83-2048	65.7	35.8	59.1	47.9
U85-71084	54.6	35.7	55.6	51.9
U85-74089	75.7	35.6	63.2	53.7
C.V. (%)	13.5	11.4	9.7	9.9
L.S.D. (5%)	15.6	5.4	9.5	8.0
Row Sp. (in.)	7	30	24	30
Rows/Plot	8	4	4	4
Reps	3	3	3	3

UNIFORM TEST III, 1989

YIELD RANK

Strain	Yield Rank	George-town DE	Middle-town DE	Winter-set IA	Tingley IA	Carbon-dale IL	Ridgway IL
BURLISON (II)	23			21	19		9
CARTTER (SCN)	34			34	31		27
DUNFIELD	35			35	34		33
FLYER (IV)	4			11	15		4
HOBBIT 87 (dt)	13			5	24		35
RESNIK (III)	7			13	5		26
A86-203034	30			28	20		32
A86-204022	11			25	6		8
A86-301024	6			10	7		22
A86-303014	10			20	30		15
A87-395012	32			33	13		14
A87-296011	17			25	32		25
A87-296012	15			27	26		11
A87-396020	14			14	17		6
C1720	12			19	2		5
HC83-4532	8			2	14		19
HC84-180	25			18	10		34
HC84-1060	30			24	23		30
HC84-4874	22			32	20		12
HC85-5273	25			31	18		3
HC85-6500	9			8	27		9
HC85-6521	21			7	11		7
HC85-6577	1			4	12		15
HC85-6724	3			1	9		13
HM8597	2			11	8		15
HM8632	17			23	28		23
HM8636	19			22	3		31
HM8776	28			29	25		20
HM8777	23			6	33		23
LN84-2418	25			9	19		29
LN84-3321	29			15	15		18
LN84-18266	20			17	29		21
MD83-2048	15			16	4		1
U85-71084	33			30	22		28
U85-74089	5			3	1		2

UNIFORM TEST III, 1989

YIELD RANK

Strain	Urbana IL	Lafay-ette IN	Lexing-ton KY	Man-hattan KS	Pow-hattan KS	Topeka KS
BURLISON (II)	18	27	31	20	19	11
CARTTER (SCN)	14	28	27	27	34	29
DUNFIELD	35	35	35	35	35	34
FLYER (IV)	2	2	14	3	5	4
HOBBIT 87 (dt)	7	13	24	1	14	2
RESNIK (III)	6	11	17	9	20	5
A86-203034	15	34	33	30	32	22
A86-204022	13	25	15	5	17	10
A86-301024	1	6	10	14	24	24
A86-303014	10	8	8	11	13	27
A87-395012	21	24	4	34	22	31
A87-296011	8	22	30	19	31	13
A87-296012	20	30	32	7	29	18
A87-396020	29	9	23	15	24	21
C1720	26	15	2	18	30	3
HC83-4532	31	11	26	13	12	26
HC84-180	32	29	25	23	6	35
HC84-1060	28	32	34	22	26	32
HC84-4874	23	19	3	33	2	17
HC85-5273	19	5	22	32	18	7
HC85-6500	16	18	1	4	14	12
HC85-6521	10	33	18	28	1	33
HC85-6577	3	23	13	17	7	23
HC85-6724	22	14	19	2	3	25
HM8597	4	1	5	6	23	1
HM8632	5	17	29	12	14	8
HM8636	25	21	16	15	21	16
HM8776	33	10	12	26	3	19
HM8777	30	26	27	10	28	8
LN84-2418	27	20	20	24	26	15
LN84-3321	24	30	21	29	33	30
LN84-18266	17	3	11	25	7	28
MD83-2048	12	4	6	20	7	6
U85-71084	34	16	8	8	7	20
U85-74089	9	7	7	31	7	13

UNIFORM TEST III, 1989

YIELD RANK

Strain	Queens-town MD	Colum-bia MO	Lexing-ton NE	Lincoln NE	Oak NE	Adel-phia NJ	Hoyt-ville OH	Mt. Orab OH
BURLISON (II)	12	23	12	28	27	26	26	19
CARTTER (SCN)	29	28	23	34	31	22	35	25
DUNFIELD	35	34	35	35	35	33	25	33
FLYER (IV)	3	6	26	19	22	7	28	11
HOBBIT 87 (dt)	34	19	5	6	10	15	5	29
RESNIK (III)	22	14	19	10	2	19	6	23
A86-203034	28	26	9	33	19	13	31	26
A86-204022	14	8	7	18	16	22	8	20
A86-301024	16	15	15	12	20	1	21	1
A86-303014	23	16	24	22	8	2	28	18
A87-395012	10	29	33	29	34	12	19	22
A87-296011	17	29	3	13	7	5	7	3
A87-296012	20	30	1	2	4	10	14	34
A87-396020	25	21	10	8	2	16	12	8
C1720	18	13	22	26	11	30	21	17
HC83-4532	9	5	2	3	9	17	4	31
HC84-180	13	27	6	15	26	17	3	27
HC84-1060	11	33	11	14	23	31	8	24
HC84-4874	4	18	27	31	30	20	8	6
HC85-5273	15	22	20	32	33	25	32	16
HC85-6500	33	4	13	10	14	11	2	28
HC85-6521	24	7	16	6	20	34	12	20
HC85-6577	6	1	8	5	17	3	1	5
HC85-6724	5	2	4	1	5	4	8	29
HM8597	2	11	21	4	1	9	20	11
HM8632	21	9	24	17	11	29	30	9
HM8636	6	17	32	25	25	24	26	2
HM8776	30	12	34	16	32	32	21	15
HM8777	1	20	18	21	13	35	16	9
LN84-2418	6	31	17	20	24	8	34	13
LN84-3321	27	32	29	24	29	27	16	4
LN84-18266	26	10	28	30	15	20	15	13
MD83-2048	19	25	31	27	28	6	16	32
U85-71084	30	24	30	23	18	28	24	35
U85-74089	32	3	14	9	6	14	32	7

UNIFORM TEST III, 1989

YIELD RANK

Strain	So. Charleston OH	Wooster OH	Landisville PA	Elk Point SD
BURLISON (II)	20	32	14	22
CARTTER (SCN)	33	35	32	17
DUNFIELD	35	34	35	35
FLYER (IV)	9	9	15	15
HOBBIT 87 (dt)	7	11	32	14
RESNIK (III)	6	7	24	4
A86-203034	25	8	7	18
A86-204022	22	10	9	25
A86-301024	12	4	18	20
A86-303014	8	2	22	13
A87-395012	32	33	30	33
A87-296011	23	23	16	18
A87-296012	31	15	6	1
A87-396020	17	30	20	6
C1720	10	22	5	21
HC83-4532	29	3	1	2
HC84-180	5	6	11	25
HC84-1060	15	25	26	9
HC84-4874	13	11	31	34
HC85-5273	21	16	27	24
HC85-6500	24	1	21	23
HC85-6521	25	13	12	30
HC85-6577	1	5	2	27
HC85-6724	4	21	12	3
HM8597	3	23	10	7
HM8632	16	27	4	15
HM8636	27	28	3	31
HM8776	19	14	25	12
HM8777	2	31	19	32
LN84-2418	30	29	23	27
LN84-3321	14	26	34	8
LN84-18266	18	16	29	10
MD83-2048	28	18	17	29
U85-71084	34	19	28	11
U85-74089	10	20	8	5

UNIFORM TEST III, 1989

MATURITY (date)

Strain	Mean 15 Tests	George-town DE	Middle-town DE	Winter set IA	Tingley IA	Carbon-dale IL	Ridgway IL
BURLISON (II)	-3.5			-5			-7
CARTTER (SCN)	-2.1			1			-5
DUNFIELD	-4.1			-2			-6
FLYER (IV)	5.2			8			7
HOBBIT 87 (dt)	1.5			1			-4
RESNIK (III)	09/25			09/20			09/01
A86-203034	-3.2			-3			-8
A86-204022	-1.9			-2			-8
A86-301024	2.3			2			1
A86-303014	2.9			5			1
A87-395012	6.5			8			10
A87-296011	-1.3			-3			-2
A87-296012	-3.5			-4			-3
A87-396020	3.9			7			8
C1720	0.2			0			-6
HC83-4532	0.3			-2			-4
HC84-180	-1.1			-1			-3
HC84-1060	-3.1			-2			-7
HC84-4874	5.8			9			9
HC85-5273	4.7			6			9
HC85-6500	3.9			4			7
HC85-6521	0.5			0			6
HC85-6577	4.8			5			7
HC85-6724	2.7			2			0
HM8597	2.8			4			7
HM8632	-4.1			-5			-8
HM8636	-3.1			-2			-8
HM8776	2.9			6			4
HM8777	-1.4			0			-3
LN84-2418	0.8			1			-1
LN84-3321	1.9			3			4
LN84-18266	-0.7			0			0
MD83-2048	5.5			8			9
U85-71084	2.0			1			6
U85-74089	1.8			3			2
Date Planted	05/22			05/10			05/01
Days to Mature	125.7			133			123

UNIFORM TEST III, 1989

MATURITY (date)

Strain	Urbana IL	Lafay-ette IN	Lexing-ton KY	Man-hattan KS	Pow-hattan KS	Topeka KS
BURLISON (II)	-5	-8	-3	-3		
CARTTER (SCN)	-4	1	-4	-3		
DUNFIELD	-5	-5	-6	-7		
FLYER (IV)	7	7	5	4		
HOBBIT 87 (dt)	3	5	3	3		
RESNIK (III)	09/26	09/26	09/09	09/27		
A86-203034	-4	-5	-5	-5		
A86-204022	-4	-4	-1	-4		
A86-301024	1	4	3	3		
A86-303014	1	5	3	2		
A87-395012	8	8	6	4		
A87-296011	-4	-2	1	-3		
A87-296012	-6	-5	-5	-5		
A87-396020	4	5	2	3		
C1720	-3	0	0	3		
HC83-4532	0	1	-2	3		
HC84-180	-2	1	0	-2		
HC84-1060	-1	-1	-1	-2		
HC84-4874	8	7	5	4		
HC85-5273	7	6	5	4		
HC85-6500	6	9	5	5		
HC85-6521	1	5	2	3		
HC85-6577	6	7	4	4		
HC85-6724	4	6	-1	3		
HM8597	3	4	3	2		
HM8632	-4	-3	-7	-3		
HM8636	-4	-2	-5	-5		
HM8776	1	6	5	3		
HM8777	-5	-5	-1	2		
LN84-2418	1	-1	2	3		
LN84-3321	1	0	1	3		
LN84-18266	-4	-1	2	-3		
MD83-2048	7	8	6	4		
U85-71084	3	2	2	3		
U85-74089	3	0	4	3		
Date Planted	05/15	05/16	05/19	05/24		
Days to Mature	134	133	113	126		

UNIFORM TEST III, 1989

MATURITY (date)

Strain	Queens-town MD	Colum-bia MO	Lexing-ton NE	Lincoln NE	Oak NE	Adel-phia NJ	Hoyt-ville OH	Mt. Orab OH
BURLISON (II)	-3	-1		-5		-6		-1
CARTTER (SCN)	-2	0		-4		-1		-4
DUNFIELD	-7	-5		-6		-1		-4
FLYER (IV)	6	3		2		4		6
HOBBIT 87 (dt)	-2	1		-1		3		3
RESNIK (III)	10/01	10/04		10/04		09/30		09/24
A86-203034	-3	-1		-3		-1		-3
A86-204022	0	0		-4		2		-2
A86-301024	1	3		0		8		1
A86-303014	4	4		0		8		1
A87-395012	5	4		5		8		6
A87-296011	2	1		-3		1		-2
A87-296012	-1	-3		-4		-1		-4
A87-396020	3	2		-1		6		2
C1720	2	-1		0		0		1
HC83-4532	2	1		0		2		1
HC84-180	-3	0		-4		-1		0
HC84-1060	-7	-3		-5		-5		-3
HC84-4874	4	6		6		4		6
HC85-5273	5	4		4		2		2
HC85-6500	-1	1		1		4		2
HC85-6521	-2	-2		-1		-4		1
HC85-6577	4	2		2		11		3
HC85-6724	2	2		1		9		2
HM8597	1	0		0		1		2
HM8632	-3	-2		-6		-7		-3
HM8636	-5	-2		-5		-1		-1
HM8776	-1	1		-1		2		4
HM8777	-4	1		0		-8		-1
LN84-2418	1	0		0		1		1
LN84-3321	1	4		1		-2		1
LN84-18266	-3	1		-4		1		0
MD83-2048	4	3		3		6		5
U85-71084	1	-1		0		1		1
U85-74089	-1	1		0		2		1
Date Planted	06/12	06/05		05/24		05/31		05/31
Days to Mature	111	121		133		122		116

UNIFORM TEST III, 1989

MATURITY (date)

Strain	So. Charleston OH	Wooster OH	Landisville PA	Elk Point SD
BURLISON (II)	-3	-1	1	-3
CARTTER (SCN)	-7	-1	3	-2
DUNFIELD	-4	-4	4	-4
FLYER (IV)	6	3	3	7
HOBBIT 87 (dt)	6	1	0	0
RESNIK (III)	09/28	09/29	09/26	10/05
A86-203034	-8	0	5	-4
A86-204022	-1	1	1	-2
A86-301024	2	2	3	1
A86-303014	4	1	2	3
A87-395012	7	4	9	5
A87-296011	-4	-1	0	-1
A87-296012	-6	-2	0	-4
A87-396020	4	3	5	5
C1720	0	1	7	-1
HC83-4532	2	-2	4	-1
HC84-180	1	-2	1	-2
HC84-1060	-5	-2	0	-3
HC84-4874	7	3	7	2
HC85-5273	4	1	7	4
HC85-6500	6	2	5	2
HC85-6521	1	-1	-1	0
HC85-6577	7	0	7	3
HC85-6724	5	0	5	0
HM8597	5	2	5	3
HM8632	-7	-1	-1	-2
HM8636	-5	0	0	-1
HM8776	7	3	3	1
HM8777	1	1	2	-1
LN84-2418	2	0	1	1
LN84-3321	4	1	6	0
LN84-18266	0	1	1	-1
MD83-2048	7	5	4	4
U85-71084	3	1	6	1
U85-74089	4	1	4	0
Date Planted	05/19	05/18	05/30	05/22
Days to Mature	132	134	119	136

UNIFORM TEST III, 1989

LODGING (score)

Strain	Mean 21 Tests	George-town DE	Middle-town DE	Winter-set IA	Tingley IA	Carbon-dale IL	Ridgway IL
BURLISON (II)	1.5			1.2	1.6		2.0
CARTTER (SCN)	1.9			1.6	1.5		2.2
DUNFIELD	3.2			3.5	3.0		3.5
FLYER (IV)	1.5			1.3	1.6		2.0
HOBBIT 87 (dt)	1.2			1.1	1.2		1.0
RESNIK (III)	1.6			1.3	1.9		2.0
A86-203034	2.0			2.1	1.6		2.0
A86-204022	1.7			1.6	1.6		2.0
A86-301024	1.4			1.2	1.3		2.0
A86-303014	1.8			1.5	1.5		2.2
A87-395012	1.6			1.1	1.4		2.2
A87-296011	1.3			1.2	1.3		2.0
A87-296012	1.2			1.0	1.3		1.7
A87-396020	1.4			1.1	1.6		2.0
C1720	1.9			1.3	1.8		2.2
HC83-4532	1.4			1.2	1.3		1.2
HC84-180	1.2			1.1	1.6		1.2
HC84-1060	1.4			1.2	1.7		1.5
HC84-4874	2.1			1.7	1.9		3.2
HC85-5273	2.0			2.0	1.9		2.5
HC85-6500	1.6			1.4	1.7		1.5
HC85-6521	1.4			1.1	1.3		1.5
HC85-6577	1.3			1.3	1.4		1.2
HC85-6724	1.4			1.3	1.8		1.5
HM8597	1.4			1.2	1.9		2.0
HM8632	1.7			1.2	1.4		1.7
HM8636	1.8			1.3	1.6		1.7
HM8776	1.7			1.3	1.5		2.2
HM8777	2.0			1.7	1.5		2.2
LN84-2418	1.7			1.3	1.7		2.0
LN84-3321	1.9			1.5	1.5		2.5
LN84-18266	1.8			1.6	1.4		2.2
MD83-2048	1.5			1.2	1.6		2.2
U85-71084	1.7			1.3	1.4		2.2
U85-74089	1.5			1.1	1.4		2.2

UNIFORM TEST III, 1989

LODGING (score)

Strain	Urbana IL	Lafay-ette IN	Lexing-ton KY	Man-hattan KS	Pow-hattan KS	Topeka KS
BURLISON (II)	1.0	1.0	1.3	3.0	1.0	1.0
CARTTER (SCN)	1.3	1.2	1.5	4.0	1.0	2.0
DUNFIELD	3.0	3.7	2.5	4.0	3.0	4.0
FLYER (IV)	2.0	1.0	1.5	2.0	1.0	1.0
HOBBIT 87 (dt)	1.0	1.0	1.2	1.0	1.0	1.0
RESNIK (III)	2.7	1.0	1.2	3.0	1.0	1.0
A86-203034	1.3	1.8	1.7	3.0	1.0	2.0
A86-204022	1.3	1.0	1.3	3.0	1.0	1.0
A86-301024	1.0	1.0	1.2	2.0	1.0	1.0
A86-303014	2.0	1.0	1.3	3.0	1.0	2.0
A87-395012	1.0	1.0	1.5	4.0	1.0	1.0
A87-296011	1.0	1.0	1.5	1.0	1.0	1.0
A87-296012	1.0	1.0	1.5	1.0	1.0	1.0
A87-396020	1.0	1.0	1.0	2.0	1.0	1.0
C1720	1.7	1.0	1.5	4.0	1.0	3.0
HC83-4532	1.0	1.0	1.5	1.0	1.0	1.0
HC84-180	1.0	1.0	1.2	1.0	1.0	1.0
HC84-1060	1.0	1.0	1.3	1.0	1.0	1.0
HC84-4874	2.0	1.5	1.5	4.0	1.0	2.0
HC85-5273	1.7	1.5	1.5	3.0	1.0	2.0
HC85-6500	1.0	1.3	1.5	2.0	1.0	1.0
HC85-6521	1.0	1.0	1.3	1.0	1.0	1.0
HC85-6577	1.0	1.0	1.5	1.0	1.0	1.0
HC85-6724	1.0	1.0	1.5	1.0	1.0	1.0
HM8597	1.3	1.0	1.3	2.0	1.0	1.0
HM8632	2.0	1.2	1.5	3.0	1.0	2.0
HM8636	1.7	1.2	1.5	2.0	1.0	2.0
HM8776	2.7	1.0	1.5	3.0	1.0	2.0
HM8777	2.7	1.0	1.3	3.0	1.0	2.0
LN84-2418	1.0	1.0	1.2	2.0	1.0	3.0
LN84-3321	2.0	1.3	1.5	3.0	1.0	2.0
LN84-18266	2.7	1.2	1.3	3.0	1.0	2.0
MD83-2048	1.0	1.0	1.5	2.0	1.0	2.0
U85-71084	1.7	1.0	1.3	2.0	1.0	2.0
U85-74089	1.0	1.0	1.2	3.0	1.0	1.0

UNIFORM TEST III, 1989

LODGING (score)

Strain	Queens-town MD	Colum-bia MO	Lexing-ton NE	Lincoln NE	Oak NE	Adel-phia NJ	Hoyt-ville OH	Mt. Orab OH
BURLISON (II)	2.0	1.5	1.5	2.3	1.0	1.3	1.5	1.2
CARTTER (SCN)	2.5	1.6	2.0	3.3	1.0	1.7	1.5	1.3
DUNFIELD	3.3	3.0	3.2	3.5	2.5	3.3	2.1	2.0
FLYER (IV)	2.2	1.5	1.8	2.0	1.0	1.7	1.4	1.3
HOBBIT 87 (dt)	2.0	1.2	1.0	1.8	1.2	1.3	1.5	1.1
RESNIK (III)	2.0	1.5	1.5	2.2	1.0	1.7	1.4	1.2
A86-203034	2.8	1.7	2.5	3.0	1.5	2.0	1.6	1.4
A86-204022	2.8	1.7	1.5	2.5	1.2	1.7	1.5	1.3
A86-301024	2.0	1.5	1.0	2.0	1.2	1.3	1.4	1.2
A86-303014	2.8	1.5	2.0	2.8	1.2	2.7	1.6	1.3
A87-395012	2.2	1.5	2.3	2.5	1.0	1.7	1.3	1.2
A87-296011	2.0	1.3	1.0	2.5	1.0	1.0	1.4	1.3
A87-296012	1.7	1.0	1.0	1.2	1.0	1.0	1.4	1.0
A87-396020	2.2	1.3	1.0	1.8	1.0	1.3	1.4	1.2
C1720	2.3	1.5	2.2	2.7	1.5	3.3	1.5	1.3
HC83-4532	2.2	1.5	1.0	2.2	1.3	1.7	1.4	1.1
HC84-180	2.0	1.2	1.0	1.5	1.0	1.3	1.5	1.0
HC84-1060	2.0	1.5	1.5	2.2	1.0	3.0	1.4	1.2
HC84-4874	2.7	1.5	1.5	3.0	1.7	3.0	1.5	1.5
HC85-5273	2.3	1.6	1.7	2.7	2.3	2.3	1.7	1.2
HC85-6500	2.0	1.3	1.0	1.8	1.2	2.7	1.8	1.2
HC85-6521	2.0	1.3	1.8	1.7	1.7	2.0	1.4	1.1
HC85-6577	2.0	1.3	1.0	1.8	1.3	2.0	1.5	1.1
HC85-6724	2.0	1.5	1.0	1.5	1.2	2.0	1.6	1.2
HM8597	2.0	1.3	1.0	2.2	1.0	1.0	1.5	1.2
HM8632	2.3	1.5	2.0	2.7	1.0	1.7	1.5	1.2
HM8636	2.7	1.5	2.3	3.2	1.2	2.3	1.4	1.3
HM8776	2.2	1.5	1.5	2.0	1.0	2.0	1.4	1.3
HM8777	3.2	1.8	1.7	3.2	1.3	3.3	1.4	1.3
LN84-2418	2.7	1.6	1.7	2.5	1.0	1.7	1.5	1.3
LN84-3321	2.8	1.7	2.3	2.8	1.3	2.3	1.4	1.3
LN84-18266	2.5	1.5	1.8	3.2	1.0	2.0	1.6	1.4
MD83-2048	2.3	1.5	1.5	2.7	1.2	1.0	1.3	1.1
U85-71084	2.7	1.5	1.8	2.8	1.3	1.7	1.4	1.0
U85-74089	2.2	1.2	1.5	1.7	1.2	1.3	1.3	1.2

UNIFORM TEST III, 1989

LODGING (score)

Strain	So. Charleston OH	Wooster OH	Landisville PA	Elk Point SD
BURLISON (II)	1.5	1.4	2.3	1.7
CARTTER (SCN)	2.3	1.5	2.8	1.7
DUNFIELD	4.8	2.9	4.0	2.3
FLYER (IV)	1.5	1.7	1.3	1.0
HOBBIT 87 (dt)	1.2	1.5	1.8	1.0
RESNIK (III)	1.3	1.6	1.7	1.0
A86-203034	2.0	2.1	3.0	1.7
A86-204022	1.7	1.7	2.8	1.3
A86-301024	1.2	1.5	2.0	1.0
A86-303014	2.0	1.8	2.2	1.0
A87-395012	1.5	1.9	2.2	1.0
A87-296011	1.2	1.6	1.3	1.3
A87-296012	1.2	1.5	1.0	1.0
A87-396020	1.5	1.6	2.0	1.0
C1720	1.3	1.6	2.3	1.7
HC83-4532	1.2	1.7	2.0	1.0
HC84-180	1.0	1.7	1.8	1.0
HC84-1060	1.0	1.5	2.3	1.0
HC84-4874	2.3	2.0	2.7	1.7
HC85-5273	1.5	1.8	2.8	2.0
HC85-6500	1.3	2.2	3.0	1.0
HC85-6521	1.0	1.9	1.8	1.0
HC85-6577	1.0	1.8	1.8	1.0
HC85-6724	1.3	1.6	2.8	1.0
HM8597	1.5	1.7	1.8	1.0
HM8632	1.7	1.7	2.7	1.3
HM8636	1.5	1.7	2.7	1.3
HM8776	2.0	1.6	1.8	1.0
HM8777	2.8	1.8	2.7	1.7
LN84-2418	1.7	1.9	2.3	1.7
LN84-3321	2.3	1.5	2.7	2.0
LN84-18266	1.8	1.9	1.7	2.0
MD83-2048	1.5	1.6	2.3	1.0
U85-71084	1.5	1.8	2.5	1.0
U85-74089	1.7	1.7	1.8	1.0

UNIFORM TEST III, 1989

PLANT HEIGHT (inches)

Strain	Mean 21 Tests	George-town DE	Middle-town DE	Winter set IA	Tingley IA	Carbon-dale IL	Ridgway IL
BURLISON (II)	30			36	28		31
CARTTER (SCN)	32			39	28		33
DUNFIELD	37			44	33		36
FLYER (IV)	34			38	29		34
HOBBIT 87 (dt)	23			26	24		19
RESNIK (III)	32			37	28		27
A86-203034	33			40	30		30
A86-204022	34			38	30		36
A86-301024	33			39	26		33
A86-303014	30			37	25		32
A87-395012	33			35	28		31
A87-296011	27			32	23		29
A87-296012	26			30	23		31
A87-396020	29			34	24		34
C1720	33			37	26		37
HC83-4532	22			28	23		20
HC84-180	22			26	25		20
HC84-1060	25			30	27		21
HC84-4874	37			42	32		40
HC85-5273	37			42	32		40
HC85-6500	26			32	27		23
HC85-6521	26			32	27		26
HC85-6577	23			27	24		18
HC85-6724	24			29	24		19
HM8597	31			37	26		33
HM8632	32			37	28		34
HM8636	32			37	31		31
HM8776	29			32	22		33
HM8777	33			38	25		33
LN84-2418	30			37	27		25
LN84-3321	33			39	30		40
LN84-18266	31			38	29		31
MD83-2048	34			39	28		36
U85-71084	35			39	30		37
U85-74089	33			38	28		35

UNIFORM TEST III, 1989

PLANT HEIGHT (inches)

Strain	Urbana IL	Lafay-ette IN	Lexing-ton KY	Man-hattan KS	Pow-hattan KS	Topeka KS
BURLISON (II)	33	30	27	33	26	31
CARTTER (SCN)	37	34	31	32	25	38
DUNFIELD	38	38	36	40	27	41
FLYER (IV)	40	33	29	40	25	37
HOBBIT 87 (dt)	30	25	20	20	19	24
RESNIK (III)	35	32	29	42	25	37
A86-203034	38	33	31	39	22	38
A86-204022	36	33	32	44	23	37
A86-301024	37	32	28	41	23	38
A86-303014	36	31	29	30	24	31
A87-395012	39	33	32	38	26	37
A87-296011	31	28	26	33	19	30
A87-296012	28	27	24	33	21	33
A87-396020	31	28	27	34	22	33
C1720	34	34	34	40	23	38
HC83-4532	25	26	18	17	20	18
HC84-180	24	25	18	22	21	19
HC84-1060	27	28	20	22	22	23
HC84-4874	42	40	37	44	28	39
HC85-5273	35	39	38	49	27	39
HC85-6500	26	30	22	27	22	21
HC85-6521	30	25	21	24	24	16
HC85-6577	24	24	19	23	23	21
HC85-6724	24	26	19	24	24	21
HM8597	36	32	28	37	22	36
HM8632	36	33	27	35	24	36
HM8636	37	34	30	37	23	36
HM8776	35	28	26	36	21	35
HM8777	37	33	29	42	24	34
LN84-2418	33	31	28	31	22	35
LN84-3321	41	35	28	39	23	33
LN84-18266	37	31	28	37	24	34
MD83-2048	35	34	34	45	25	41
U85-71084	42	37	36	39	23	39
U85-74089	38	31	30	42	23	36

UNIFORM TEST III, 1989

PLANT HEIGHT (inches)

Strain	Queens-town MD	Colum-bia MO	Lexing-ton NE	Lincoln NE	Oak NE	Adel-phia NJ	Hoyt-ville OH	Mt. Orab OH
BURLISON (II)	25	28	38	27	36	31	24	22
CARTTER (SCN)	31	31	34	36	35	32	21	25
DUNFIELD	34	34	43	40	39	36	28	24
FLYER (IV)	33	31	40	37	37	35	25	26
HOBBIT 87 (dt)	20	22	23	27	26	25	20	18
RESNIK (III)	29	31	38	34	35	33	25	24
A86-203034	31	32	37	40	39	36	22	27
A86-204022	34	30	40	38	36	37	26	25
A86-301024	32	28	40	37	37	36	22	25
A86-303014	28	29	35	33	34	31	23	22
A87-395012	34	30	38	39	38	36	25	24
A87-296011	26	24	29	31	31	27	21	23
A87-296012	25	22	28	27	30	28	20	17
A87-396020	27	27	39	32	33	33	21	22
C1720	33	30	40	38	34	38	24	24
HC83-4532	18	21	26	25	28	25	21	17
HC84-180	20	20	27	22	26	24	21	17
HC84-1060	21	23	31	30	31	27	20	19
HC84-4874	34	35	41	42	40	42	29	30
HC85-5273	33	36	47	40	38	38	29	29
HC85-6500	21	22	26	30	30	29	23	19
HC85-6521	21	24	35	28	33	28	21	20
HC85-6577	18	21	27	27	29	26	21	19
HC85-6724	20	23	26	27	27	26	23	16
HM8597	28	27	35	33	33	33	23	24
HM8632	31	28	35	35	36	36	21	25
HM8636	32	28	38	37	36	38	21	28
HM8776	27	26	35	29	31	35	22	22
HM8777	31	32	40	40	37	35	24	27
LN84-2418	27	28	39	36	35	34	22	24
LN84-3321	30	33	41	39	39	34	24	25
LN84-18266	28	26	33	34	35	32	22	25
MD83-2048	33	32	42	38	36	40	27	20
U85-71084	35	31	41	41	41	37	27	19
U85-74089	31	31	40	36	36	34	22	27

UNIFORM TEST III, 1989

PLANT HEIGHT (inches)

Strain	So. Charleston OH	Wooster OH	Landisville PA	Elk Point SD
BURLISON (II)	27	21	34	39
CARTTER (SCN)	30	26	35	40
DUNFIELD	37		38	44
FLYER (IV)	34	27	35	39
HOBBIT 87 (dt)	21	19	24	33
RESNIK (III)	31	25	32	36
A86-203034	27	24	39	42
A86-204022	26	24	37	42
A86-301024	30	26	35	39
A86-303014	30	26	32	34
A87-395012	31	25	35	36
A87-296011	24	22	29	32
A87-296012	25	22	30	32
A87-396020	28	20	34	35
C1720	28	24	37	39
HC83-4532	19	22	24	31
HC84-180	21	20	24	26
HC84-1060	22	21	29	33
HC84-4874	33	29	39	43
HC85-5273	31	33	39	42
HC85-6500	21	24	31	32
HC85-6521	17	22	29	37
HC85-6577	23	21	27	31
HC85-6724	23	21	28	30
HM8597	29	24	33	34
HM8632	29	26	35	39
HM8636	28	24	35	39
HM8776	31	21	30	33
HM8777	31	21	36	39
LN84-2418	29	23	34	35
LN84-3321	29	23	35	41
LN84-18266	28	24	31	36
MD83-2048	31	27	39	42
U85-71084	28	27	37	43
U85-74089	27	28	36	40

UNIFORM TEST III, 1989

SEED QUALITY (score)

Strain	Mean 20 Tests	George-town DE	Middle-town DE	Winter set IA	Tingley IA	Carbon-dale IL	Ridgway IL
BURLISON (II)	2.3			3.0	3.5		1.8
CARTTER (SCN)	2.2			3.0	3.5		1.7
DUNFIELD	2.4			2.5	3.0		2.3
FLYER (IV)	1.8			2.5	3.0		1.4
HOBBIT 87 (dt)	1.8			2.0	3.0		1.2
RESNIK (III)	1.8			2.5	3.0		1.5
A86-203034	2.1			2.5	3.5		1.9
A86-204022	2.4			3.5	3.5		1.8
A86-301024	2.2			3.0	3.0		1.5
A86-303014	2.3			3.5	3.5		1.8
A87-395012	2.0			3.0	2.5		1.8
A87-296011	2.1			2.5	3.0		1.5
A87-296012	2.0			3.0	3.0		1.8
A87-396020	2.2			3.5	3.5		1.5
C1720	2.5			3.5	4.0		1.9
HC83-4532	2.0			2.5	3.5		1.4
HC84-180	1.7			2.0	3.0		1.5
HC84-1060	2.3			2.5	3.5		1.6
HC84-4874	1.8			3.5	2.5		1.4
HC85-5273	1.9			2.5	2.5		1.5
HC85-6500	2.0			2.5	3.0		1.2
HC85-6521	2.0			2.5	3.0		1.5
HC85-6577	2.0			3.0	3.5		1.4
HC85-6724	1.7			2.5	3.5		1.4
HM8597	1.6			2.5	2.5		1.4
HM8632	2.6			4.0	4.5		2.0
HM8636	2.9			4.5	4.5		1.7
HM8776	2.2			3.5	4.0		1.5
HM8777	2.6			3.5	4.0		1.7
LN84-2418	2.1			3.0	3.0		1.7
LN84-3321	1.9			2.5	3.0		1.5
LN84-18266	2.1			2.5	3.5		1.8
MD83-2048	1.9			3.0	3.5		1.7
U85-71084	2.3			4.0	3.5		1.8
U85-74089	2.0			3.0	3.0		1.7

UNIFORM TEST III, 1989

SEED QUALITY (score)

Strain	Urbana IL	Lafay-ette IN	Lexing-ton KY	Man-hattan KS	Pow-hattan KS	Topeka KS
BURLISON (II)	1.5	1.5	2.0	3.0		2.0
CARTTER (SCN)	1.2	1.5	2.0	2.0		3.0
DUNFIELD	1.7	2.0	2.0	3.0		2.0
FLYER (IV)	1.2	1.0	2.0	2.0		3.0
HOBBIT 87 (dt)	1.2	1.5	2.0	2.0		2.0
RESNIK (III)	1.2	1.0	2.0	1.0		2.0
A86-203034	1.6	1.5	2.0	2.0		2.0
A86-204022	2.0	2.5	2.0	3.0		3.0
A86-301024	1.4	2.0	2.0	2.0		4.0
A86-303014	1.4	1.5	3.0	3.0		4.0
A87-395012	1.6	1.5	2.0	2.0		3.0
A87-296011	1.3	1.5	2.0	3.0		2.0
A87-296012	1.4	1.5	2.0	2.0		2.0
A87-396020	1.6	1.5	3.0	2.0		3.0
C1720	1.4	1.5	2.0	2.0		4.0
HC83-4532	1.2	1.5	2.0	2.0		2.0
HC84-180	1.2	1.0	2.0	2.0		2.0
HC84-1060	1.3	2.0	3.0	3.0		2.0
HC84-4874	1.3	1.0	2.0	2.0		2.0
HC85-5273	1.3	1.0	2.0	2.0		2.0
HC85-6500	1.2	1.5	2.0	3.0		3.0
HC85-6521	1.2	1.0	2.0	3.0		2.0
HC85-6577	1.4	1.5	4.0	2.0		2.0
HC85-6724	1.2	1.0	2.0	2.0		2.0
HM8597	1.2	1.0	1.0	1.0		2.0
HM8632	1.8	2.0	2.0	3.0		4.0
HM8636	1.7	3.0	3.0	3.0		4.0
HM8776	1.5	1.0	2.0	2.0		3.0
HM8777	2.0	2.0	2.0	3.0		4.0
LN84-2418	1.5	1.5	2.0	2.0		3.0
LN84-3321	1.5	1.5	2.0	2.0		2.0
LN84-18266	1.4	2.0	2.0	2.0		3.0
MD83-2048	1.3	1.5	1.0	2.0		2.0
U85-71084	1.7	1.0	2.0	2.0		4.0
U85-74089	1.2	1.5	2.0	2.0		3.0

UNIFORM TEST III, 1989

SEED QUALITY (score)

Strain	Queens-town MD	Colum-bia MO	Lexing-ton NE	Lincoln NE	Oak NE	Adel-phia NJ	Hoyt-ville OH	Mt. Orab OH
BURLISON (II)	3.5	2.0	1.7	2.3	1.5	5.0	1.7	2.3
CARTTER (SCN)	2.7	2.0	2.0	3.7	1.0	3.7	1.5	2.0
DUNFIELD	1.8	1.5	1.7	4.0	1.0	5.0	1.5	3.7
FLYER (IV)	1.2	2.0	1.0	2.0	1.0	1.7	1.4	2.2
HOBBIT 87 (dt)	2.5	1.5	1.7	1.3	1.2	2.7	1.4	2.0
RESNIK (III)	1.7	1.5	2.0	1.8	1.0	3.3	1.6	2.3
A86-203034	1.8	2.0	1.7	3.3	1.2	4.0	1.6	2.3
A86-204022	1.5	2.0	2.3	3.7	1.2	4.3	1.6	2.8
A86-301024	1.8	1.5	2.0	2.7	1.0	2.3	1.8	3.0
A86-303014	1.5	2.0	2.0	3.3	1.5	3.0	1.5	2.0
A87-395012	1.0	2.0	1.7	2.7	1.0	1.7	1.4	2.5
A87-296011	1.5	1.8	2.3	2.0	1.2	3.7	1.5	2.0
A87-296012	1.8	1.5	1.3	1.8	1.0	3.3	1.5	2.7
A87-396020	1.7	2.0	1.7	2.0	1.2	2.7	1.6	2.0
C1720	2.2	2.3	2.0	3.7	1.0	4.3	1.6	4.0
HC83-4532	1.5	1.5	2.0	2.7	1.2	3.3	1.4	2.7
HC84-180	1.5	1.3	1.7	1.5	1.0	2.0	1.3	1.0
HC84-1060	2.3	1.5	1.0	2.0	1.0	5.0	1.4	3.7
HC84-4874	1.2	1.3	1.7	3.0	1.0	2.0	1.3	2.0
HC85-5273	1.2	2.0	1.7	2.7	1.5	4.0	1.4	2.0
HC85-6500	2.3	1.5	1.7	2.0	1.0	2.3	1.5	2.7
HC85-6521	3.0	1.3	1.7	1.5	1.0	5.0	1.3	2.0
HC85-6577	1.5	1.5	1.3	2.0	1.0	3.0	1.4	2.3
HC85-6724	1.3	1.5	1.0	1.5	1.0	1.7	1.4	1.3
HM8597	1.0	1.3	2.0	1.3	1.0	2.3	1.4	2.2
HM8632	1.7	2.0	2.0	3.0	1.2	4.3	1.8	3.7
HM8636	2.0	2.0	2.0	3.7	1.2	3.7	2.3	4.0
HM8776	2.0	1.8	2.0	2.0	1.0	3.7	1.4	2.7
HM8777	2.7	2.0	2.3	3.0	1.5	4.3	1.8	3.3
LN84-2418	1.3	1.8	2.0	2.0	1.0	3.0	1.5	2.3
LN84-3321	1.7	1.5	1.0	2.0	1.2	2.7	1.5	2.7
LN84-18266	1.8	1.8	1.3	3.0	1.0	2.7	1.4	2.3
MD83-2048	1.2	1.7	1.3	2.7	1.2	1.7	1.3	2.7
U85-71084	1.3	2.0	1.3	3.0	1.0	2.3	2.4	3.3
U85-74089	1.8	1.5	1.3	2.0	1.0	3.3	1.4	3.3

UNIFORM TEST III, 1989

SEED QUALITY (score)

Strain	So. Charleston OH	Wooster OH	Landisville PA	Elk Point SD
BURLISON (II)	2.0	1.2	2.5	1.0
CARTTER (SCN)	1.5	1.3	2.5	2.0
DUNFIELD	2.5	1.3	2.5	3.0
FLYER (IV)	1.5	1.3	2.0	2.0
HOBBIT 87 (dt)	1.0	1.6	2.5	2.0
RESNIK (III)	2.0	1.3	2.0	2.0
A86-203034	1.5	1.4	2.5	2.0
A86-204022	1.5	1.3	2.0	2.0
A86-301024	2.0	1.3	2.0	3.0
A86-303014	2.0	1.3	2.0	2.0
A87-395012	1.5	1.6	2.5	3.0
A87-296011	2.0	1.3	2.5	3.0
A87-296012	1.5	1.5	2.5	3.0
A87-396020	2.5	1.3	2.5	3.0
C1720	2.0	1.4	2.5	3.0
HC83-4532	1.5	1.3	2.5	2.0
HC84-180	1.0	1.2	2.0	3.0
HC84-1060	1.5	1.4	3.0	3.0
HC84-4874	1.5	1.4	2.5	2.0
HC85-5273	1.0	1.2	3.0	2.0
HC85-6500	1.5	1.5	2.5	2.0
HC85-6521	1.5	1.4	2.5	2.0
HC85-6577	1.5	1.6	2.5	2.0
HC85-6724	1.0	1.4	2.5	2.0
HM8597	1.0	1.6	2.5	2.0
HM8632	3.0	1.8	2.0	3.0
HM8636	4.0	1.6	2.5	4.0
HM8776	2.5	1.4	2.5	3.0
HM8777	3.0	1.5	2.5	2.0
LN84-2418	1.5	1.8	2.0	4.0
LN84-3321	2.0	1.5	2.0	3.0
LN84-18266	1.5	1.5	2.0	3.0
MD83-2048	1.5	1.7	2.5	2.0
U85-71084	2.0	1.8	2.5	3.0
U85-74089	2.0	1.7	2.0	2.0

UNIFORM TEST III, 1989

SEED SIZE (g/100)

Strain	Mean 20 Tests	George-town DE	Middle-town DE	Winter set IA	Tingley IA	Carbon-dale IL	Ridgway IL
BURLISON (II)	17.9			16.4	15.7		13.3
CARTTER (SCN)	16.4			15.6	14.5		12.3
DUNFIELD	15.6			16.3	15.2		13.4
FLYER (IV)	15.0			14.1	13.9		11.6
HOBBIT 87 (dt)	15.9			15.5	14.3		11.5
RESNIK (III)	15.5			14.8	15.1		11.3
A86-203034	17.9			16.8	16.5		13.0
A86-204022	18.2			17.2	15.9		14.0
A86-301024	17.6			16.7	14.9		12.7
A86-303014	17.8			17.2	16.9		12.4
A87-395012	15.1			14.6	14.3		12.3
A87-296011	18.1			16.0	14.7		13.8
A87-296012	17.4			15.8	14.0		14.6
A87-396020	18.4			16.8	17.2		14.7
C1720	17.5			16.2	15.9		13.8
HC83-4532	17.9			16.6	15.0		13.9
HC84-180	16.0			15.5	14.4		12.4
HC84-1060	14.7			14.6	13.0		11.6
HC84-4874	17.0			15.1	16.1		12.2
HC85-5273	15.4			14.5	15.1		12.8
HC85-6500	15.6			15.1	14.6		12.9
HC85-6521	15.3			14.5	14.3		12.3
HC85-6577	17.8			17.1	15.2		14.9
HC85-6724	15.7			15.4	14.5		12.2
HM8597	14.8			13.6	13.4		11.3
HM8632	18.8			16.9	17.4		13.7
HM8636	18.6			17.7	17.9		13.4
HM8776	14.2			14.0	13.0		10.7
HM8777	15.8			16.0	14.5		11.2
LN84-2418	15.1			14.1	15.0		10.0
LN84-3321	14.4			13.9	13.8		11.2
LN84-18266	15.8			15.4	13.7		11.8
MD83-2048	14.6			14.5	13.7		12.5
U85-71084	15.1			14.3	13.8		12.7
U85-74089	14.9			14.7	13.4		11.1

UNIFORM TEST III, 1989

SEED SIZE (g/100)

Strain	Urbana IL	Lafay-ette IN	Lexing-ton KY	Man-hattan KS	Pow-hattan KS	Topeka KS
BURLISON (II)	18.6	18.1	16.3	21.4		15.9
CARTTER (SCN)	18.2	19.5	15.8	18.1		16.6
DUNFIELD	16.3	17.8	14.1	17.3		15.2
FLYER (IV)	15.8	16.4	16.2	16.5		13.5
HOBBIT 87 (dt)	17.2	17.1	15.5	18.1		17.2
RESNIK (III)	16.8	16.7	14.6	17.2		15.2
A86-203034	19.2	19.5	15.0	18.9		17.3
A86-204022	19.5	18.3	19.5	19.5		19.8
A86-301024	19.6	20.2	18.3	19.5		18.1
A86-303014	19.5	19.5	18.4	19.9		19.3
A87-395012	16.0	16.8	17.0	17.2		15.0
A87-296011	19.9	19.9	17.0	20.3		19.3
A87-296012	18.7	18.5	15.0	19.2		18.3
A87-396020	19.8	20.2	18.4	19.7		17.0
C1720	17.4	18.2	17.1	20.0		16.9
HC83-4532	20.1	18.7	16.0	20.9		19.9
HC84-180	16.3	18.1	15.6	19.2		17.5
HC84-1060	16.4	16.5	13.5	17.9		17.0
HC84-4874	17.6	18.9	18.3	18.5		17.1
HC85-5273	16.1	17.4	15.6	16.0		15.1
HC85-6500	16.1	17.7	16.8	16.3		16.8
HC85-6521	17.3	18.2	15.7	18.7		18.2
HC85-6577	18.9	18.3	18.4	19.6		19.8
HC85-6724	17.2	17.6	15.2	17.8		17.6
HM8597	15.0	17.1	15.0	15.6		14.1
HM8632	21.1	19.4	16.6	22.2		18.1
HM8636	18.7	20.9	17.8	21.2		18.3
HM8776	14.3	16.7	15.0	15.8		14.3
HM8777	16.6	16.5	14.5	16.7		16.2
LN84-2418	15.0	17.0	15.6	16.3		14.3
LN84-3321	13.7	16.4	15.8	16.0		14.8
LN84-18266	15.6	18.7	15.7	16.2		14.9
MD83-2048	13.8	18.3	16.7	16.6		14.4
U85-71084	13.2	17.6	16.3	17.5		16.2
U85-74089	15.3	16.0	15.7	16.4		14.5

UNIFORM TEST III, 1989

SEED SIZE (g/100)

Strain	Queens-town MD	Colum-bia MO	Lexing-ton NE	Lincoln NE	Oak NE	Adel-phia NJ	Hoyt-ville OH	Mt. Orab OH
BURLISON (II)	19.3	17.7	20.2	18.8	20.8	18.0	14.4	17.6
CARTTER (SCN)	15.8	16.4	18.3	17.0	18.1	17.7	13.1	15.5
DUNFIELD	17.7	14.7	15.5	15.7	17.1	16.0	11.8	15.7
FLYER (IV)	16.0	14.4	15.8	15.2	16.3	17.3	11.3	15.8
HOBBIT 87 (dt)	15.0	16.6	17.3	17.0	18.2	16.7	12.3	16.4
RESNIK (III)	16.3	15.3	16.9	16.2	17.3	17.3	12.3	16.1
A86-203034	18.4	18.2	21.0	17.9	21.3	19.0	15.6	19.2
A86-204022	18.8	18.6	19.5	19.2	20.9	19.3	14.2	18.2
A86-301024	17.9	17.1	18.8	18.7	20.1	17.7	14.3	19.3
A86-303014	18.1	17.2	19.0	18.6	19.7	19.0	14.2	18.2
A87-395012	15.6	14.0	15.9	15.2	15.4	16.0	12.0	16.2
A87-296011	19.1	18.9	20.0	19.4	19.6	18.7	14.8	19.0
A87-296012	17.8	17.1	19.3	19.1	19.8	17.0	14.4	17.0
A87-396020	18.0	18.4	18.4	19.5	20.6	19.0	14.8	18.8
C1720	17.7	17.1	19.0	17.5	20.1	17.7	12.4	19.4
HC83-4532	18.3	18.2	19.9	18.9	19.6	18.3	13.7	17.2
HC84-180	16.1	16.2	16.6	16.4	16.3	16.3	12.2	15.2
HC84-1060	15.0	14.2	16.3	15.3	16.3	15.3	10.6	13.9
HC84-4874	18.6	17.1	17.6	16.7	19.9	18.7	12.1	17.5
HC85-5273	15.7	14.5	16.4	15.7	17.1	15.7	12.1	16.4
HC85-6500	15.5	15.9	16.1	16.7	16.7	16.3	11.7	16.5
HC85-6521	14.4	14.4	16.2	15.9	16.1	14.0	11.9	15.2
HC85-6577	19.1	18.4	17.0	18.2	18.5	19.3	12.7	19.0
HC85-6724	15.4	16.4	16.2	16.5	16.9	16.3	11.8	14.7
HM8597	16.0	14.4	15.4	15.7	17.1	16.7	10.6	15.4
HM8632	19.0	19.4	21.2	20.7	20.6	19.3	14.3	19.4
HM8636	19.2	18.6	20.1	20.4	19.7	20.3	14.2	19.2
HM8776	14.4	13.6	14.4	15.3	15.4	15.0	10.4	15.4
HM8777	15.8	16.3	17.9	17.4	19.1	14.7	12.5	16.8
LN84-2418	16.3	14.3	16.7	16.7	16.8	16.0	12.0	15.5
LN84-3321	13.7	14.0	15.6	16.4	16.1	14.0	10.9	15.6
LN84-18266	16.1	16.3	17.4	15.9	16.9	17.7	12.7	16.2
MD83-2048	15.0	14.1	14.8	14.3	15.5	16.0	11.0	14.0
U85-71084	14.4	15.2	15.8	16.3	16.3	16.0	12.4	13.8
U85-74089	13.8	15.2	16.2	15.7	16.1	16.3	11.5	15.3

UNIFORM TEST III, 1989

SEED SIZE (g/100)

Strain	So. Charleston OH	Wooster OH	Landisville PA	Elk Point SD
BURLISON (II)	17.4	18.0	21.2	18.1
CARTTER (SCN)	14.6	17.0	17.6	16.3
DUNFIELD	13.9	13.8	18.6	15.8
FLYER (IV)	15.2	14.9	16.1	14.1
HOBBIT 87 (dt)	17.1	15.9	13.7	15.3
RESNIK (III)	14.9	15.2	16.0	14.5
A86-203034	15.6	17.4	20.3	17.7
A86-204022	17.9	17.6	17.6	18.4
A86-301024	16.7	17.3	16.6	17.0
A86-303014	17.2	17.7	16.0	17.2
A87-395012	13.9	16.3	15.6	13.4
A87-296011	16.8	17.6	18.5	18.4
A87-296012	17.3	17.6	19.2	18.7
A87-396020	17.6	18.1	21.6	18.4
C1720	18.2	16.4	21.4	16.9
HC83-4532	17.1	17.0	21.7	17.7
HC84-180	16.0	15.5	18.7	15.3
HC84-1060	14.1	13.8	14.9	14.1
HC84-4874	16.5	16.5	18.2	15.9
HC85-5273	15.4	15.9	16.0	14.5
HC85-6500	16.3	15.0	13.7	15.1
HC85-6521	15.6	13.1	14.2	14.9
HC85-6577	18.3	16.6	20.5	17.1
HC85-6724	16.1	14.3	17.1	15.3
HM8597	15.2	14.0	16.6	13.9
HM8632	17.9	17.7	21.4	18.9
HM8636	15.4	18.9	22.0	18.5
HM8776	13.4	13.6	16.1	13.4
HM8777	15.1	14.4	18.2	14.8
LN84-2418	14.3	14.3	16.0	15.0
LN84-3321	14.4	13.2	13.8	15.0
LN84-18266	15.5	15.8	16.1	16.7
MD83-2048	14.3	14.0	15.1	14.1
U85-71084	15.3	13.9	15.6	15.1
U85-74089	13.9	14.8	16.8	15.0

UNIFORM TEST III, 1988

PROTEIN (%)

Strain	Mean 3 Tests	Winterset IA	Lafayette IN	Wooster OH
BURLISON (II)	40.9	41.3	40.6	40.9
CARTTER (SCN)	40.6	41.0	39.8	41.0
DUNFIELD	36.5	38.9	39.4	31.2
FLYER (IV)	40.5	40.5	40.8	40.2
HOBBIT 87 (dt)	37.8	38.1	39.0	36.4
RESNIK (III)	39.2	39.9	39.4	38.3
A86-203034	37.9	38.7	38.7	36.3
A86-204022	37.0	39.4	36.4	35.3
A86-301024	38.7	39.4	39.4	37.4
A86-303014	39.0	40.5	39.2	37.4
A87-395012	40.0	40.0	39.9	40.2
A87-296011	38.3	40.1	37.7	37.1
A87-296012	40.0	41.4	39.5	39.0
A87-396020	38.3	39.9	39.2	35.7
C1720	38.6	39.8	38.6	37.3
HC83-4532	38.3	37.8	37.9	39.3
HC84-180	39.1	38.8	40.0	38.4
HC84-1060	39.6	39.3	40.0	39.6
HC84-4874	39.0	39.7	39.4	37.8
HC85-5273	38.5	39.4	38.0	38.2
HC85-6500	37.8	38.4	38.3	36.8
HC85-6521	37.8	37.9	39.4	36.1
HC85-6577	38.7	38.5	39.1	38.6
HC85-6724	39.8	39.5	39.5	40.4
HM8597	38.3	39.5	39.1	36.3
HM8632	37.8	39.0	37.6	36.7
HM8636	39.6	40.0	39.2	39.5
HM8776	39.7	41.2	39.9	38.1
HM8777	36.8	38.9	36.8	34.6
LN84-2418	38.7	39.6	38.6	37.9
LN84-3321	37.1	39.1	36.2	36.1
LN84-18266	38.6	39.5	38.2	38.1
MD83-2048	38.9	39.4	40.0	37.3
U85-71084	38.9	39.4	39.3	38.1
U85-74089	38.9	40.5	39.6	36.5

UNIFORM TEST III, 1988

OIL (%)

Strain	Mean 3 Tests	Winterset IA	Lafayette IN	Wooster OH
BURLISON (II)	19.7	19.6	19.7	19.8
CARTTER (SCN)	20.9	20.5	21.6	20.6
DUNFIELD	21.8	20.8	21.4	23.2
FLYER (IV)	20.9	21.4	20.8	20.6
HOBBIT 87 (dt)	22.4	22.2	22.6	22.4
RESNIK (III)	21.3	21.0	21.6	21.4
A86-203034	21.2	19.9	21.6	22.2
A86-204022	21.8	21.1	21.9	22.4
A86-301024	19.7	19.4	19.1	20.7
A86-303014	20.2	19.0	20.7	20.8
A87-395012	20.2	19.9	20.3	20.4
A87-296011	21.1	19.8	22.1	21.5
A87-296012	21.3	20.2	21.4	22.2
A87-396020	21.5	19.7	22.0	22.7
C1720	21.0	19.7	21.5	21.9
HC83-4532	21.8	21.3	22.4	21.8
HC84-180	22.1	21.9	22.5	22.0
HC84-1060	21.2	21.1	21.4	21.1
HC84-4874	21.4	20.3	21.7	22.3
HC85-5273	21.1	20.7	21.7	21.0
HC85-6500	20.8	20.5	20.4	21.4
HC85-6521	20.1	20.1	19.7	20.6
HC85-6577	21.4	20.7	22.0	21.5
HC85-6724	20.3	20.3	20.0	20.7
HM8597	21.5	21.0	21.4	22.1
HM8632	21.2	20.3	21.5	21.9
HM8636	21.5	20.9	22.1	21.4
HM8776	20.7	19.9	21.4	20.8
HM8777	21.2	19.9	21.6	22.2
LN84-2418	21.1	20.3	21.6	21.4
LN84-3321	21.5	21.1	21.9	21.5
LN84-18266	21.7	20.9	21.9	22.3
MD83-2048	21.2	21.6	20.4	21.6
U85-71084	21.8	21.4	22.0	21.9
U85-74089	21.3	20.1	22.2	21.7

UNIFORM PRELIMINARY TEST IIIA, 1989

Strain	Parentage	Generation Composited	Unique Traits
Burlison (II)	K74-113-76-486 x Century	F5	Rps1-b, Rps3
Flyer (IV)	Asgrow A3127 (4) x Williams 82	BC3 F2	Rps1-k
Resnik (III)	Asgrow A3127 (4) x Williams 82	BC3 F2	Rps1-k
A88-221006	Riverside 2024 x Harper	F5	
A88-221009	Sherman x A8	F5	BSR Resis.
A88-221021	BSR 101 x Harper	F5	BSR Resis.
A88-221022	Riverside 2024 x Harper	F5	
A88-321007	Sherman x Harper	F5	
A88-321010	Riverside 2024 x Sherman	F5	
A88-321012	A82-267015 x Harper	F5	
A88-321016	A82-267015 x Sherman	F5	
A88-321019	Asgrow A3659 x Pride B152	F5	
A88-321021	Sherman x A8	F5	BSR Resis.
A88-321022	LN80-7603 x Sherman	F5	BSR Resis.
A88-321023	A83-376026 x Riverside 2024	F5	BSR Resis.
A88-321024	Sherman x A8	F5	BSR Resis.
HM8847	A80-244036 x A3127 BC3 F2-26	F6	
HM8855	Sherman (5) x HW79149	BC4 F2	
HM8890	A80-344003 x A3127 BC3 F2-1	F6	
HM8894	A80-244036 x A3127 BC3 F2-26	F6	
HS87-2061	Sherman x Madison GL2810	F5	
HS87-2064	Sherman x Madison GL2810	F5	
HS87-2067	Sherman x Madison GL2810	F5	
K1160	A80-147002 x Asgrow A3127	F5	
K1161	Harper x Asgrow A3127	F5	
K1162	HW79149 x Asgrow A3127	F5	
K1163	HW79149 x Asgrow A3127	F5	
K1164	Harper x Asgrow A3127	F5	
LN84-4940	HW79149 x Asgrow A3127	F5	Rps?
LN84-9812	Williams 82 x LN80-11178	F5	
LN85-5735	LNX8107 x LN80-7532	F5	Rps?, BSR Resis.
LN85-6065	LNX8107 x LN80-7532	F5	Rps?
LN85-9180	LNX8141 x Fayette	F5	
LN86-1227	Hack x Preston	F5	
LN86-1244	Hack x Preston	F5	
LN86-1317	Hack x Preston	F5	
LN86-3263	LN78-257 x Harper	F5	Rps1
LN86-3567	LN78-257 x Asgrow A3127	F5	Rps1

UNIFORM PRELIMINARY TEST IIIA, 1989

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	Chlorosis Score Ames	Shattering Score Manhattan	BSR-Ames Plant n %	BSR-Ames Stem n %
BURLISON (II)	WTTSBlI	3.0	1	100.0	80.9
FLYER (IV)	PTTSBlI	4.3	1	100.0	66.0
RESNIK (III)	PTTSBlI	4.5	1	100.0	71.6
A88-221006	PTBSBlI	3.2	1	100.0	70.7
A88-221009	WTBSBrI	3.0	2	100.0	49.5
A88-221021	PTBDBlI	3.3	3	90.0	33.4
A88-221022	PTBSGI	4.2	2	100.0	85.5
A88-321007	PTBSBrI	4.0	2	100.0	82.0
A88-321010	P+WGBDYI	3.5	1	100.0	70.9
A88-321012	PGBSIbI	4.0	2	100.0	51.4
A88-321016	WGBSYI	3.7	1	100.0	78.8
A88-321019	PTBDGI	1.8	1	100.0	63.7
A88-321021	WTBDBrI	3.3	1	100.0	59.5
A88-321022	P+WTBDBrI	4.3	1	100.0	24.6
A88-321023	PGB+TDIbI	3.5	1	100.0	32.2
A88-321024	WGBDBfI	3.3	1	100.0	43.6
HM8847	PTTSBlI	4.5	1	100.0	81.6
HM8855	PGBDIbI	4.0	1	100.0	66.0
HM8890	WTBSBlI	2.3	1	100.0	39.3
HM8894	PTBSBlI	3.7	1	100.0	76.8
HS87-2061	PGBSBf+YI	2.8	1	100.0	83.3
HS87-2064	PGBSYI	3.0	1	100.0	72.1
HS87-2067	PGBSBf+YI	3.2	1	100.0	100.0
K1160	WGTDBfI	4.7	2	100.0	63.9
K1161	PTTDBlI	3.2	2	100.0	62.9
K1162	PTBDBlI	4.7	2	100.0	59.3
K1163	PTTDBlI	4.3	2	100.0	72.0
K1164	PTBSBlI	4.2	2	100.0	66.8
LN84-4940	WTTSYI	4.8	1	100.0	57.1
LN84-9812	PTTSBlI	4.0	1	100.0	74.6
LN85-5735	PTBDBlI	3.2	2	100.0	40.0
LN85-6065	PGBDIbI	4.0	1	100.0	56.8
LN85-9180	WGTSBfI	4.2	2	100.0	69.7
LN86-1227	PGBSIbI	4.2	1	100.0	64.4
LN86-1244	PGBDGI	4.0	2	100.0	71.6
LN86-1317	PGBSIbI	4.2	1	100.0	66.6
LN86-3263	PGTSIbI	4.2	1	100.0	61.5
LN86-3567	WGTDBfI	4.7	2	100.0	54.0

UNIFORM PRELIMINARY TEST IIIA, 1989

DISEASE DATA

Strain	PR		PS	PSB	SMV
	Ames	Urbana	Lafayette		
	Race 4	Race	a	n	a
	Reaction	1	%	%	Score
BURLISON (II)	R	R	28	28	3E
FLYER (IV)	H	R	8	10	4E
RESNIK (III)	R	R	22	26	3E
A88-221006	S	S	5	62	5E
A88-221009	S	S	2	16	5E
A88-221021	S	R	2	8	3M
A88-221022	S	S	6	8	3M
A88-321007	S	S	6	20	5E
A88-321010	S	S	0	32	2E
A88-321012	S	S	2	32	2M
A88-321016	S	S	2	28	5M
A88-321019	S	R	10	6	5E
A88-321021	S	S	6	4	5E
A88-321022	S	S	0	18	3M
A88-321023	S	S	4	14	3M
A88-321024	S	R	4	4	2E
HM8847	R	R	8	0	3M
HM8855	R	R	0	4	5E
HM8890	R	R	0	6	2M
HM8894	R	R	1	6	4E
HS87-2061	S	S	8	22	2M
HS87-2064	S	S	4	30	4M
HS87-2067	S	S	2	76	1
K1160	S	R	0	36	4M
K1161	S	S	2	6	3M
K1162	S	S	8	2	2M
K1163	S	S	4	6	3M
K1164	S	S	2	8	3E
LN84-4940	S	R	12	12	5S
LN84-9812	S	S	8	18	2M
LN85-5735	S	R	4	32	4E
LN85-6065	H	R	12	48	3M
LN85-9180	S	S	4	26	1
LN86-1227	S	S	12	28	2M
LN86-1244	S	S	4	16	5M
LN86-1317	S	S	10	12	3M
LN86-3263	S	R	0	4	1
LN86-3567	S	R	6	8	1

UNIFORM PRELIMINARY TEST IIIA, 1989

REGIONAL SUMMARY

No. of Tests Strain	Yield 9 bu/a	Rank 9 No.	Maturity 6 Date	Lodging 9 Score	Plant Height 9 In.	Seed Quality 9 Score	Seed Size 9 g/100	Composition Protein 4 %	 Oil 4 %
BURLISON (II)	48.9	28	-5.2	1.4	31	2.0	17.7	41.3	19.4
FLYER (IV)	53.7	4	5.8	1.5	35	2.0	14.6	39.9	20.2
RESNIK (III)	55.1	2	09/24*	1.6	33	1.8	15.4	39.8	20.8
A88-221006	50.5	18	-6.3	1.6	34	2.1	16.6	38.5	21.4
A88-221009	49.0	26	2.5	1.8	31	2.3	17.2	39.8	19.9
A88-221021	50.9	14	0.2	1.4	34	2.3	17.4	38.2	20.5
A88-221022	49.7	23	-4.2	1.4	35	2.3	17.1	37.9	20.4
A88-321007	51.1	12	0.5	1.3	30	2.1	18.3	40.0	20.8
A88-321010	49.3	24	5.5	2.0	36	2.1	16.8	39.4	20.4
A88-321012	49.0	26	0.0	1.9	32	2.5	17.4	39.3	20.3
A88-321016	48.6	30	2.5	2.6	38	2.4	16.2	38.5	20.7
A88-321019	50.2	21	1.8	1.8	33	2.7	15.5	38.1	20.2
A88-321021	49.1	25	-0.2	1.9	34	2.4	16.4	40.2	20.6
A88-321022	47.2	33	3.7	2.2	36	2.3	16.8	39.7	20.9
A88-321023	48.7	29	3.2	1.8	36	2.2	16.5	40.8	20.8
A88-321024	50.1	22	6.0	1.9	33	2.6	15.0	39.6	19.6
HM8847	45.5	35	-3.7	2.2	29	2.0	14.2	39.1	20.3
HM8855	47.6	32	-2.5	1.5	32	2.7	19.2	38.3	21.3
HM8890	52.9	7	2.5	1.8	32	2.1	17.1	40.3	20.1
HM8894	50.7	15	1.2	2.3	32	2.5	16.9	38.2	20.3
HS87-2061	54.9	3	2.8	1.8	34	1.9	16.6	39.3	21.1
HS87-2064	52.3	9	2.3	2.2	34	2.2	16.8	38.9	21.7
HS87-2067	53.3	6	-4.3	1.3	30	2.2	17.2	38.3	22.1
K1160	50.4	19	5.5	2.0	35	2.2	15.0	38.7	19.9
K1161	53.5	5	5.3	1.5	35	2.2	16.3	40.5	19.9
K1162	51.2	11	3.5	2.3	36	2.1	15.1	38.5	21.4
K1163	51.0	13	7.0	1.9	37	2.1	16.0	38.2	20.7
K1164	55.2	1	2.0	1.6	36	1.8	16.7	39.5	20.4
LN84-4940	46.3	34	0.2	2.2	34	2.3	16.2	38.3	21.0
LN84-9812	50.3	20	1.7	1.3	30	2.0	18.0	37.8	21.0
LN85-5735	42.8	37	0.0	2.0	36	2.4	15.8	39.1	20.2
LN85-6065	42.5	38	2.7	2.6	34	2.1	16.3	39.9	19.9
LN85-9180	45.1	36	8.2	1.7	38	2.3	15.9	39.1	20.1
LN86-1227	52.7	8	4.3	1.6	36	2.1	16.7	38.8	20.0
LN86-1244	48.5	31	6.7	2.0	39	2.9	15.7	38.9	19.4
LN86-1317	50.7	15	3.5	1.6	36	2.0	15.6	37.6	20.1
LN86-3263	50.7	15	0.8	2.2	38	2.1	17.3	37.7	20.6
LN86-3567	51.8	10	4.3	1.3	35	1.6	13.6	38.6	19.6

*129.2 Days After Planting

UNIFORM PRELIMINARY TEST IIIA, 1989

YIELD (bu/a)

Strain	Mean 9 Tests	Fair-field IA	Winterset IA	Urbana IL	Lafay-ette IN
BURLISON (II)	48.9	32.6	53.1	52.6	49.2
FLYER (IV)	53.7	28.1	51.6	64.5	49.7
RESNIK (III)	55.1	37.8	53.8	66.4	51.4
A88-221006	50.5	29.0	53.8	62.4	46.1
A88-221009	49.0	31.2	52.7	55.0	50.5
A88-221021	50.9	30.9	52.1	63.2	50.3
A88-221022	49.7	37.5	53.7	52.3	46.2
A88-321007	51.1	28.2	51.7	55.6	49.8
A88-321010	49.3	37.9	46.8	57.1	49.0
A88-321012	49.0	28.2	56.7	58.7	51.1
A88-321016	48.6	34.2	48.8	54.2	47.4
A88-321019	50.2	28.9	57.3	62.7	50.6
A88-321021	49.1	33.0	49.2	57.6	47.1
A88-321022	47.2	34.0	48.2	55.3	50.9
A88-321023	48.7	37.1	53.0	57.5	46.3
A88-321024	50.1	34.8	52.2	55.6	51.5
HM8847	45.5	33.0	46.8	56.2	40.4
HM8855	47.6	28.6	54.0	50.3	46.6
HM8890	52.9	32.9	52.5	64.9	45.3
HM8894	50.7	34.0	53.2	59.6	53.5
HS87-2061	54.9	39.6	53.7	56.5	52.2
HS87-2064	52.3	37.3	54.6	60.4	55.2
HS87-2067	53.3	34.5	50.8	59.9	52.6
K1160	50.4	28.9	56.4	58.2	47.3
K1161	53.5	39.1	50.6	57.5	53.8
K1162	51.2	43.7	56.7	61.1	53.0
K1163	51.0	37.5	52.5	59.8	53.2
K1164	55.2	39.9	55.6	59.7	49.9
LN84-4940	46.3	40.4	49.9	59.0	35.4
LN84-9812	50.3	30.9	49.5	56.2	52.8
LN85-5735	42.8	32.9	45.3	51.2	45.5
LN85-6065	42.5	22.9	47.6	63.4	34.1
LN85-9180	45.1	33.6	47.5	54.1	48.2
LN86-1227	52.7	37.2	55.6	52.2	50.4
LN86-1244	48.5	40.5	51.5	51.0	49.6
LN86-1317	50.7	33.1	55.9	54.5	47.0
LN86-3263	50.7	36.8	53.5	60.6	49.7
LN86-3567	51.8	33.3	53.5	65.4	51.1
C.V. (%)		8.5	5.0	6.7	8.5
L.S.D. (5%)		5.8	5.3	7.9	8.5
Row Sp. (In.)		27	27	30	24
Rows/Plot		4	4	4	4
Reps		2	2	2	2

UNIFORM PRELIMINARY TEST IIIA, 1989

YIELD (bu/a)

Strain	Man-hattan KS	Lexing-ton NE	Lincoln NE	Hoyt-ville OH	So. Charles-ton OH
BURLISON (II)	62.0	43.3	47.6	30.5	69.4
FLYER (IV)	69.8	42.9	59.1	30.4	86.8
RESNIK (III)	64.9	48.9	59.5	33.6	80.0
A88-221006	54.6	48.8	59.4	33.9	66.8
A88-221009	50.3	47.9	48.1	30.7	74.2
A88-221021	55.9	53.3	56.4	34.5	61.7
A88-221022	53.8	50.6	54.3	34.6	64.6
A88-321007	61.3	55.2	57.5	31.7	68.9
A88-321010	47.8	49.6	50.1	32.2	73.1
A88-321012	48.5	46.1	49.5	32.2	69.9
A88-321016	51.3	49.2	42.7	36.0	73.8
A88-321019	46.7	48.4	54.7	27.7	75.1
A88-321021	54.3	47.8	47.1	37.8	68.4
A88-321022	54.6	41.3	39.2	34.7	66.4
A88-321023	48.7	44.8	48.7	31.6	70.2
A88-321024	52.9	45.1	54.6	33.8	70.8
HM8847	52.2	46.7	34.7	30.9	68.3
HM8855	57.0	50.1	53.7	29.7	58.1
HM8890	62.0	48.0	55.0	32.3	83.1
HM8894	55.6	49.9	53.6	33.2	63.7
HS87-2061	65.1	51.7	55.0	38.0	82.4
HS87-2064	59.1	54.6	44.4	38.6	66.5
HS87-2067	58.6	59.9	56.5	34.1	72.8
K1160	60.2	47.4	52.0	32.5	70.5
K1161	62.1	49.1	55.5	36.0	77.6
K1162	59.4	43.7	39.5	29.5	74.4
K1163	51.8	43.7	55.9	29.5	75.1
K1164	62.5	53.8	59.2	36.6	79.5
LN84-4940	50.1	40.3	49.4	27.6	64.7
LN84-9812	50.6	51.0	52.6	34.0	74.8
LN85-5735	50.3	39.6	46.0	20.8	53.2
LN85-6065	44.3	32.7	44.8	21.6	71.0
LN85-9180	38.3	37.6	43.9	32.1	70.2
LN86-1227	59.4	52.2	53.5	36.9	77.2
LN86-1244	52.2	39.5	48.9	32.2	71.0
LN86-1317	54.5	45.9	54.9	34.9	75.6
LN86-3263	47.5	52.5	50.1	34.5	71.5
LN86-3567	61.3	47.1	57.0	30.9	66.7
C.V. (%)	9.7	10.2	4.4	10.3	7.6
L.S.D. (5%)	10.9	9.8	4.1	6.5	10.9
Row Sp. (In.)	30	30	30	30	7
Rows/Plot	4	4	4	4	8
Reps	2	2	2	2	2

UNIFORM PRELIMINARY TEST IIIA, 1989

YIELD RANK

Strain	Yield Rank	Fair-field IA	Winterset IA	Urbana IL	Lafay-ette IN
BURLISON (II)	28	27	17	33	23
FLYER (IV)	4	37	25	4	20
RESNIK (III)	2	8	10	1	10
A88-221006	18	31	10	8	33
A88-221009	26	28	19	29	15
A88-221021	14	29	23	6	17
A88-221022	23	9	12	34	32
A88-321007	12	35	24	26	19
A88-321010	24	7	36	22	24
A88-321012	26	35	2	17	11
A88-321016	30	17	32	31	26
A88-321019	21	32	1	7	14
A88-321021	25	23	31	19	28
A88-321022	33	18	33	28	13
A88-321023	29	13	18	20	31
A88-321024	22	15	22	26	9
HM8847	35	23	36	24	36
HM8855	32	34	9	38	30
HM8890	7	25	20	3	35
HM8894	15	18	16	15	3
HS87-2061	3	5	12	23	8
HS87-2064	9	11	8	11	1
HS87-2067	6	16	27	12	7
K1160	19	32	4	18	27
K1161	5	6	28	20	2
K1162	11	1	2	9	5
K1163	13	9	20	13	4
K1164	1	4	6	14	18
LN84-4940	34	3	29	16	37
LN84-9812	20	29	30	24	6
LN85-5735	37	25	38	36	34
LN85-6065	38	38	34	5	38
LN85-9180	36	20	35	32	25
LN86-1227	8	12	6	35	16
LN86-1244	31	2	26	37	22
LN86-1317	15	22	5	30	29
LN86-3263	15	14	14	10	20
LN86-3567	10	21	14	2	11

UNIFORM PRELIMINARY TEST IIIA, 1989

YIELD RANK

Strain	Manhattan KS	Lexington NE	Lincoln NE	Hoytville OH	So. Charleston OH
BURLISON (II)	6	31	29	30	25
FLYER (IV)	1	32	4	31	1
RESNIK (III)	3	16	1	17	4
A88-221006	18	17	2	15	29
A88-221009	28	20	28	29	13
A88-221021	16	5	8	11	36
A88-221022	21	10	16	10	34
A88-321007	8	2	5	25	26
A88-321010	33	13	22	21	15
A88-321012	32	25	24	21	24
A88-321016	26	14	35	6	14
A88-321019	35	18	14	35	9
A88-321021	20	21	30	3	27
A88-321022	36	33	37	9	32
A88-321023	31	28	27	26	22
A88-321024	22	27	15	16	20
HM8847	23	24	38	27	28
HM8855	15	11	17	32	37
HM8890	6	19	11	20	2
HM8894	17	12	18	18	35
HS87-2061	2	8	11	2	3
HS87-2064	13	3	33	1	31
HS87-2067	14	1	7	13	16
K1160	10	22	21	19	21
K1161	5	15	10	6	6
K1162	11	29	36	33	12
K1163	25	29	9	33	9
K1164	4	4	3	5	5
LN84-4940	30	34	25	36	33
LN84-9812	27	9	20	14	11
LN85-5735	28	35	31	38	38
LN85-6065	37	38	32	37	18
LN85-9180	38	37	34	24	22
LN86-1227	11	7	19	4	7
LN86-1244	23	36	26	21	18
LN86-1317	19	26	13	8	8
LN86-3263	34	6	22	11	17
LN86-3567	8	23	6	27	30

UNIFORM PRELIMINARY TEST IIIA, 1989

MATURITY (date)

Strain	Mean 6 Tests	Fair-field IA	Winterset IA	Urbana IL	Lafay-ette IN
BURLISON (II)	-5.2		-4	-7	-7
FLYER (IV)	5.8		8	6	6
RESNIK (III)	09/24		09/19	09/25	09/16
A88-221006	-6.3		-6	-6	-8
A88-221009	2.5		4	2	3
A88-221021	0.2		2	0	1
A88-221022	-4.2		-2	-6	-6
A88-321007	0.5		1	0	2
A88-321010	5.5		6	6	7
A88-321012	0.0		2	-1	1
A88-321016	2.5		2	0	5
A88-321019	1.8		4	2	2
A88-321021	-0.2		1	0	0
A88-321022	3.7		6	3	3
A88-321023	3.2		2	6	5
A88-321024	6.0		7	6	7
HM8847	-3.7		0	-3	-5
HM8855	-2.5		-3	-3	1
HM8890	2.5		6	1	1
HM8894	1.2		3	1	2
HS87-2061	2.8		2	3	2
HS87-2064	2.3		0	3	1
HS87-2067	-4.3		-6	-4	-5
K1160	5.5		6	7	8
K1161	5.3		8	6	5
K1162	3.5		4	4	4
K1163	7.0		8	7	8
K1164	2.0		2	3	1
LN84-4940	0.2		2	-1	2
LN84-9812	1.7		3	-1	4
LN85-5735	0.0		0	0	-2
LN85-6065	2.7		2	4	2
LN85-9180	8.2		10	8	13
LN86-1227	4.3		4	5	7
LN86-1244	6.7		9	6	8
LN86-1317	3.5		3	3	5
LN86-3263	0.8		2	2	4
LN86-3567	4.3		6	6	6
Date Planted	05/18		05/10	05/15	05/16
Days to Mature	129.2		132	133	123

UNIFORM PRELIMINARY TEST IIIA, 1989

MATURITY (date)

Strain	Man-hattan KS	Lexing-ton NE	Lincoln NE	Hoyt-ville OH	So. Charles-ton OH
BURLISON (II)	-3		-3		-7
FLYER (IV)	6		4		5
RESNIK (III)	09/24		10/02		09/29
A88-221006	-2		-5		-11
A88-221009	6		1		-1
A88-221021	2		-1		-3
A88-221022	-1		-3		-7
A88-321007	2		0		-2
A88-321010	7		2		5
A88-321012	4		0		-6
A88-321016	7		1		0
A88-321019	4		-2		1
A88-321021	1		1		-4
A88-321022	7		3		0
A88-321023	5		2		-1
A88-321024	7		3		6
HM8847	-2		-3		-9
HM8855	-2		-2		-6
HM8890	5		2		0
HM8894	3		0		-2
HS87-2061	4		2		4
HS87-2064	5		1		4
HS87-2067	-2		-3		-6
K1160	7		2		3
K1161	7		4		2
K1162	5		2		2
K1163	7		7		5
K1164	4		1		1
LN84-4940	-1		-2		1
LN84-9812	4		-1		1
LN85-5735	3		-2		1
LN85-6065	7		-1		2
LN85-9180	7		5		6
LN86-1227	6		2		2
LN86-1244	7		5		5
LN86-1317	7		2		1
LN86-3263	3		-3		-3
LN86-3567	3		2		3
Date Planted	05/24		05/24		05/19
Days to Mature	123		131		133

UNIFORM PRELIMINARY TEST IIIA, 1989

LODGING (score)

Strain	Mean 9 Tests	Fair-field IA	Winterset IA	Urbana IL	Lafay-ette IN
BURLISON (II)	1.4	1.2	1.3	1.0	1.0
FLYER (IV)	1.5	1.3	1.2	1.5	1.0
RESNIK (III)	1.6	1.3	1.2	2.0	1.0
A88-221006	1.6	1.1	1.3	1.0	1.0
A88-221009	1.8	1.2	1.3	1.0	1.0
A88-221021	1.4	1.3	1.2	1.0	1.0
A88-221022	1.4	1.1	1.3	1.0	1.0
A88-321007	1.3	1.2	1.2	1.0	1.0
A88-321010	2.0	1.4	1.7	2.0	1.0
A88-321012	1.9	1.2	1.2	1.0	1.0
A88-321016	2.6	1.4	2.2	2.5	1.8
A88-321019	1.8	1.1	1.3	2.0	1.0
A88-321021	1.9	1.2	1.4	1.5	1.0
A88-321022	2.2	1.2	1.8	1.5	1.3
A88-321023	1.8	1.3	1.3	1.5	1.0
A88-321024	1.9	1.3	1.3	1.0	1.0
HM8847	2.2	1.5	1.4	3.5	1.3
HM8855	1.5	1.1	1.2	1.0	1.3
HM8890	1.8	1.4	1.4	2.0	1.0
HM8894	2.3	1.5	1.7	3.5	1.5
HS87-2061	1.8	1.3	1.4	2.0	1.0
HS87-2064	2.2	1.3	1.8	3.0	1.0
HS87-2067	1.3	1.0	1.1	1.0	1.0
K1160	2.0	1.3	1.5	2.0	1.0
K1161	1.5	1.2	1.2	1.5	1.0
K1162	2.3	1.2	1.8	2.5	1.8
K1163	1.9	1.3	1.5	2.0	1.0
K1164	1.6	1.2	1.2	1.5	1.0
LN84-4940	2.2	1.5	1.6	2.5	1.3
LN84-9812	1.3	1.3	1.1	1.0	1.0
LN85-5735	2.0	1.3	1.6	2.5	1.5
LN85-6065	2.6	1.3	2.3	3.0	1.5
LN85-9180	1.7	1.4	1.6	1.0	1.0
LN86-1227	1.6	1.2	1.3	1.0	1.0
LN86-1244	2.0	1.3	2.3	1.5	1.3
LN86-1317	1.6	1.1	1.3	1.0	1.0
LN86-3263	2.2	1.3	1.6	2.5	1.0
LN86-3567	1.3	1.2	1.2	1.0	1.0

UNIFORM PRELIMINARY TEST IIIA, 1989

LODGING (score)

Strain	Man-hattan KS	Lexing-ton NE	Lincoln NE	Hoyt-ville OH	So. Charles-ton OH
BURLISON (II)	2.0	1.3	2.3	1.5	1.0
FLYER (IV)	2.0	1.3	2.0	1.4	1.5
RESNIK (III)	3.0	1.0	2.3	1.5	1.0
A88-221006	3.0	1.0	3.0	1.5	1.3
A88-221009	4.0	1.3	3.3	1.5	2.0
A88-221021	2.0	1.0	2.3	1.5	1.0
A88-221022	2.0	1.0	2.3	1.5	1.8
A88-321007	2.0	1.0	1.8	1.6	1.0
A88-321010	3.0	1.8	3.3	1.5	2.3
A88-321012	4.0	2.3	3.5	1.5	1.5
A88-321016	4.0	2.0	4.0	1.7	3.5
A88-321019	3.0	2.0	3.0	1.5	1.5
A88-321021	3.0	2.5	3.3	1.5	2.0
A88-321022	4.0	1.8	4.0	1.5	2.8
A88-321023	4.0	1.0	2.8	1.5	2.0
A88-321024	4.0	1.0	2.8	1.5	2.8
HM8847	4.0	1.5	2.5	1.7	2.3
HM8855	3.0	1.0	2.8	1.4	1.0
HM8890	3.0	1.0	3.3	1.6	1.8
HM8894	4.0	1.8	3.5	1.6	2.0
HS87-2061	3.0	1.5	3.3	1.5	1.5
HS87-2064	4.0	2.0	3.5	1.5	1.8
HS87-2067	2.0	1.0	2.5	1.4	1.0
K1160	3.0	2.5	2.8	1.5	2.0
K1161	2.0	1.0	2.3	1.6	1.5
K1162	3.0	1.5	3.8	1.7	3.3
K1163	3.0	1.3	2.5	1.5	2.8
K1164	3.0	1.0	2.5	1.6	1.5
LN84-4940	3.0	1.8	3.5	1.8	2.5
LN84-9812	1.0	1.0	2.5	1.5	1.5
LN85-5735	3.0	2.0	3.5	1.5	1.5
LN85-6065	4.0	2.8	3.5	1.6	3.0
LN85-9180	3.0	1.0	3.0	1.7	1.8
LN86-1227	3.0	1.3	2.5	1.5	1.8
LN86-1244	3.0	2.0	2.8	1.6	2.3
LN86-1317	3.0	1.3	2.8	1.5	1.3
LN86-3263	4.0	1.8	3.3	1.6	2.5
LN86-3567	2.0	1.0	1.8	1.5	1.0

UNIFORM PRELIMINARY TEST IIIA, 1989

PLANT HEIGHT (inches)

Strain	Mean 9 Tests	Fair-field IA	Winterset IA	Urbana IL	Lafay-ette IN
BURLISON (II)	31	28	36	30	28
FLYER (IV)	35	25	40	38	29
RESNIK (III)	33	26	38	39	31
A88-221006	34	28	38	38	30
A88-221009	31	24	36	34	26
A88-221021	34	27	38	37	30
A88-221022	35	28	41	34	34
A88-321007	30	25	34	34	27
A88-321010	36	28	40	40	33
A88-321012	32	24	35	33	32
A88-321016	38	30	40	43	33
A88-321019	33	22	37	37	30
A88-321021	34	27	38	38	30
A88-321022	36	25	38	40	32
A88-321023	36	30	40	38	32
A88-321024	33	25	36	35	29
HM8847	29	24	36	33	26
HM8855	32	26	36	36	31
HM8890	32	24	36	36	29
HM8894	32	24	36	37	30
HS87-2061	34	28	36	37	31
HS87-2064	34	29	40	35	33
HS87-2067	30	26	34	34	27
K1160	35	24	40	39	33
K1161	35	29	38	37	33
K1162	36	30	39	39	34
K1163	37	26	40	42	33
K1164	36	29	40	39	32
LN84-4940	34	27	36	41	29
LN84-9812	30	22	35	33	28
LN85-5735	36	28	38	38	32
LN85-6065	34	26	40	40	28
LN85-9180	38	26	40	40	35
LN86-1227	36	26	40	39	31
LN86-1244	39	30	40	41	35
LN86-1317	36	26	42	35	32
LN86-3263	38	30	40	41	34
LN86-3567	35	26	38	40	30

UNIFORM PRELIMINARY TEST IIIA, 1989

PLANT HEIGHT (inches)

Strain	Man-hattan KS	Lexing-ton NE	Lincoln NE	Hoyt-ville OH	So. Charles-ton OH
BURLISON (II)	37	40	29	26	28
FLYER (IV)	43	42	37	24	34
RESNIK (III)	40	36	34	26	31
A88-221006	38	37	38	24	31
A88-221009	43	34	33	22	30
A88-221021	38	41	37	25	29
A88-221022	42	38	40	27	34
A88-321007	34	35	31	20	29
A88-321010	45	41	37	28	32
A88-321012	35	39	36	23	27
A88-321016	46	45	48	25	34
A88-321019	40	36	37	25	34
A88-321021	40	38	36	24	34
A88-321022	45	42	40	25	33
A88-321023	43	40	37	26	34
A88-321024	43	38	34	25	31
HM8847	31	33	28	22	28
HM8855	36	36	36	24	26
HM8890	41	36	35	23	32
HM8894	39	36	32	21	32
HS87-2061	39	39	37	26	29
HS87-2064	40	39	40	23	27
HS87-2067	34	33	33	22	24
K1160	44	38	38	25	32
K1161	40	39	38	27	35
K1162	44	40	42	27	33
K1163	45	46	40	29	36
K1164	42	40	39	26	34
LN84-4940	39	39	39	24	28
LN84-9812	34	35	31	21	31
LN85-5735	44	45	42	25	31
LN85-6065	41	40	40	23	28
LN85-9180	45	43	44	30	37
LN86-1227	46	41	42	26	37
LN86-1244	51	45	47	27	35
LN86-1317	44	45	42	28	34
LN86-3263	47	47	40	26	37
LN86-3567	42	42	37	25	32

UNIFORM PRELIMINARY TEST IIIA, 1989

SEED QUALITY (score)

Strain	Mean 9 Tests	Fair-field IA	Winterset IA	Urbana IL	Lafay-ette IN
BURLISON (II)	2.0	3.5	3.0	1.8	1.5
FLYER (IV)	2.0	3.5	3.0	1.4	1.0
RESNIK (III)	1.8	3.5	2.5	1.2	1.5
A88-221006	2.1	4.0	3.0	1.2	1.5
A88-221009	2.3	3.5	3.5	1.9	1.5
A88-221021	2.3	4.0	3.5	1.4	1.5
A88-221022	2.3	4.5	3.5	1.2	1.5
A88-321007	2.1	4.0	3.0	1.4	1.0
A88-321010	2.1	4.0	3.5	1.5	1.5
A88-321012	2.5	4.5	3.5	1.4	1.5
A88-321016	2.4	3.5	3.5	1.5	1.5
A88-321019	2.7	4.5	4.0	1.5	1.5
A88-321021	2.4	4.5	4.0	1.5	1.5
A88-321022	2.3	4.0	3.5	1.4	1.5
A88-321023	2.2	3.5	3.0	2.0	1.5
A88-321024	2.6	4.0	3.5	2.0	1.5
HM8847	2.0	4.0	4.0	1.2	1.5
HM8855	2.7	4.5	4.0	1.8	2.0
HM8890	2.1	3.5	3.0	1.2	1.5
HM8894	2.5	4.0	4.0	1.8	1.5
HS87-2061	1.9	3.0	3.0	1.5	1.0
HS87-2064	2.2	3.5	3.0	1.5	1.0
HS87-2067	2.2	3.5	3.5	1.8	1.5
K1160	2.2	4.0	3.0	1.5	1.5
K1161	2.2	4.0	3.5	1.4	1.5
K1162	2.1	4.0	2.5	1.2	1.0
K1163	2.1	3.5	3.0	1.7	1.5
K1164	1.8	3.0	3.0	1.2	1.0
LN84-4940	2.3	4.0	4.0	1.4	1.5
LN84-9812	2.0	4.0	3.5	1.2	1.5
LN85-5735	2.4	4.0	3.5	1.8	1.5
LN85-6065	2.1	3.0	3.5	1.5	2.0
LN85-9180	2.3	4.0	3.5	1.4	1.5
LN86-1227	2.1	4.0	3.5	1.2	1.5
LN86-1244	2.9	4.5	4.0	2.7	1.5
LN86-1317	2.0	4.0	3.5	1.5	1.5
LN86-3263	2.1	3.5	3.0	1.4	1.5
LN86-3567	1.6	3.0	2.5	1.4	1.0

UNIFORM PRELIMINARY TEST IIIA, 1989

SEED QUALITY (score)

Strain	Man-hattan KS	Lexing-ton NE	Lincoln NE	Hoyt-ville OH	So. Charles-ton OH
BURLISON (II)	2.0	1.3	1.8	1.4	1.5
FLYER (IV)	2.0	1.3	1.8	1.8	2.0
RESNIK (III)	1.0	1.3	1.8	1.6	1.5
A88-221006	3.0	1.3	2.0	1.3	2.0
A88-221009	2.0	1.3	3.0	1.7	2.5
A88-221021	2.0	1.3	2.0	2.1	3.0
A88-221022	2.0	1.3	2.0	2.6	2.0
A88-321007	2.0	1.3	2.0	2.0	2.5
A88-321010	1.0	1.3	2.5	1.7	2.0
A88-321012	3.0	2.0	2.5	1.7	2.0
A88-321016	2.0	1.8	3.0	2.6	2.0
A88-321019	4.0	3.0	2.0	2.1	1.5
A88-321021	2.0	1.3	3.0	1.6	2.5
A88-321022	2.0	1.3	3.0	1.8	2.0
A88-321023	2.0	1.5	2.5	1.8	2.0
A88-321024	4.0	1.0	2.0	1.6	4.0
HM8847	1.0	1.0	2.0	1.6	1.5
HM8855	2.0	1.8	2.0	2.0	4.0
HM8890	3.0	1.3	2.0	1.8	2.0
HM8894	4.0	1.3	2.0	1.6	2.5
HS87-2061	1.0	1.3	2.0	1.4	2.5
HS87-2064	2.0	1.5	3.0	1.5	2.5
HS87-2067	2.0	1.8	2.0	2.1	1.5
K1160	2.0	1.8	2.0	1.7	2.0
K1161	2.0	1.3	2.0	2.4	1.5
K1162	3.0	1.3	2.5	1.5	2.0
K1163	2.0	1.8	2.0	1.4	2.0
K1164	1.0	1.8	2.0	1.8	1.5
LN84-4940	2.0	1.5	2.0	2.0	2.0
LN84-9812	1.0	1.8	2.0	1.6	1.5
LN85-5735	3.0	1.3	2.0	1.6	3.0
LN85-6065	2.0	1.5	2.0	1.4	2.0
LN85-9180	2.0	1.0	2.5	2.1	3.0
LN86-1227	1.0	1.3	2.5	2.2	2.0
LN86-1244	4.0	1.3	2.5	2.9	2.5
LN86-1317	1.0	1.0	2.0	1.8	1.5
LN86-3263	2.0	1.3	2.0	2.5	2.0
LN86-3567	1.0	1.0	1.3	1.4	1.5

UNIFORM PRELIMINARY TEST IIIA, 1989

SEED SIZE (g/100)

Strain	Mean 9 Tests	Fair-field IA	Winterset IA	Urbana IL	Lafay-ette IN
BURLISON (II)	17.7	17.1	16.5	16.4	18.7
FLYER (IV)	14.6	13.5	14.5	13.3	16.4
RESNIK (III)	15.4	15.2	14.8	15.4	17.2
A88-221006	16.6	15.7	14.9	17.0	17.6
A88-221009	17.2	17.1	15.9	16.1	19.0
A88-221021	17.4	18.9	16.1	18.8	19.2
A88-221022	17.1	17.7	15.6	16.2	18.3
A88-321007	18.3	16.9	16.3	19.2	20.0
A88-321010	16.8	15.5	14.9	16.3	17.7
A88-321012	17.4	18.3	17.2	18.1	18.8
A88-321016	16.2	16.4	15.4	14.8	18.4
A88-321019	15.5	14.7	14.3	15.3	16.6
A88-321021	16.4	17.0	15.2	15.3	17.8
A88-321022	16.8	15.2	16.7	16.8	19.1
A88-321023	16.5	17.2	15.8	16.3	19.1
A88-321024	15.0	15.8	13.8	14.5	17.0
HM8847	14.2	14.9	13.5	13.4	16.0
HM8855	19.2	20.1	17.8	20.3	21.4
HM8890	17.1	17.2	16.2	16.6	19.6
HM8894	16.9	16.6	15.6	17.6	19.6
HS87-2061	16.6	18.3	15.2	15.2	17.3
HS87-2064	16.8	17.9	14.7	17.0	18.0
HS87-2067	17.2	16.0	15.5	17.0	17.7
K1160	15.0	15.2	15.1	15.3	16.1
K1161	16.3	17.3	15.0	16.0	19.0
K1162	15.1	15.1	13.7	14.8	16.9
K1163	16.0	15.5	15.7	15.5	18.9
K1164	16.7	17.9	15.5	16.0	18.9
LN84-4940	16.2	18.8	15.2	15.7	18.2
LN84-9812	18.0	17.8	16.6	18.1	20.4
LN85-5735	15.8	15.7	14.5	15.1	18.1
LN85-6065	16.3	16.5	14.9	16.7	18.7
LN85-9180	15.9	15.7	15.1	16.8	18.7
LN86-1227	16.7	17.4	15.9	16.2	18.0
LN86-1244	15.7	16.0	15.2	15.6	16.8
LN86-1317	15.6	16.3	14.4	17.0	16.5
LN86-3263	17.3	18.7	17.0	18.1	19.7
LN86-3567	13.6	13.7	12.5	14.1	15.5

UNIFORM PRELIMINARY TEST IIIA, 1989

SEED SIZE (g/100)

Strain	Man-hattan KS	Lexing-ton NE	Lincoln NE	Hoyt-ville OH	So. Charles-ton OH
BURLISON (II)	19.0	19.6	18.8	16.3	17.0
FLYER (IV)	15.8	14.5	14.9	13.0	15.1
RESNIK (III)	16.6	14.7	16.0	13.6	15.5
A88-221006	17.7	17.9	18.8	14.6	15.5
A88-221009	19.0	17.3	18.7	14.6	17.1
A88-221021	17.2	17.3	18.1	14.7	16.4
A88-221022	18.9	17.8	18.9	13.9	16.2
A88-321007	20.6	19.2	19.2	15.6	18.0
A88-321010	19.0	17.7	17.2	15.0	17.9
A88-321012	17.6	17.8	16.9	15.2	16.8
A88-321016	17.1	16.5	16.5	13.9	16.4
A88-321019	16.5	15.4	16.0	14.3	16.6
A88-321021	17.6	17.3	17.2	14.3	16.2
A88-321022	18.0	16.3	16.8	14.7	17.3
A88-321023	16.8	16.7	17.1	13.0	16.4
A88-321024	16.6	14.0	15.4	12.6	14.9
HM8847	16.0	14.8	14.6	12.6	12.1
HM8855	20.2	19.9	21.0	15.5	16.6
HM8890	17.9	17.7	18.6	13.8	16.7
HM8894	18.4	16.3	19.2	13.4	15.8
HS87-2061	17.8	17.6	17.8	14.9	15.6
HS87-2064	17.5	17.8	16.9	15.1	16.2
HS87-2067	19.2	19.5	17.9	15.7	16.5
K1160	16.9	15.0	16.5	12.0	13.2
K1161	17.8	15.6	16.9	13.4	15.6
K1162	17.2	15.1	15.3	12.5	15.1
K1163	16.3	16.6	16.7	13.0	15.6
K1164	18.4	16.8	17.2	13.5	15.9
LN84-4940	15.8	16.3	16.8	13.3	15.5
LN84-9812	18.8	18.3	19.2	15.3	17.5
LN85-5735	17.3	15.7	17.9	12.9	14.6
LN85-6065	16.7	15.5	16.9	13.8	16.7
LN85-9180	16.6	14.4	16.3	13.3	15.8
LN86-1227	18.0	16.3	17.3	13.5	18.0
LN86-1244	15.8	15.7	16.9	12.9	16.1
LN86-1317	16.7	14.2	16.8	12.6	15.9
LN86-3263	17.3	17.2	17.5	13.4	16.7
LN86-3567	14.7	12.8	13.7	12.1	13.7

UNIFORM PRELIMINARY TEST IIIA, 1989

PROTEIN (%)

Strain	Mean 4 Tests	Winterset IA	Urbana IL	Lafayette IN	Hoytville OH
BURLISON (II)	41.3	41.6	39.9	40.1	43.5
FLYER (IV)	39.9	40.5	39.7	39.0	40.2
RESNIK (III)	39.8	39.9	38.3	39.9	41.1
A88-221006	38.5	39.0	35.2	38.9	40.8
A88-221009	39.8	41.0	39.4	38.8	40.1
A88-221021	38.2	39.0	36.8	37.9	38.9
A88-221022	37.9	38.5	35.3	38.0	39.6
A88-321007	40.0	40.5	39.9	39.2	40.3
A88-321010	39.4	40.1	38.8	39.1	39.6
A88-321012	39.3	39.8	39.0	38.4	40.1
A88-321016	38.5	39.9	37.8	37.5	38.7
A88-321019	38.1	39.1	37.5	37.4	38.2
A88-321021	40.2	40.7	38.6	40.5	40.8
A88-321022	39.7	40.4	38.8	39.4	40.0
A88-321023	40.8	41.2	39.6	41.2	41.1
A88-321024	39.6	40.6	39.1	38.2	40.5
HM8847	39.1	39.7	37.7	38.9	40.1
HM8855	38.3	38.6	36.2	38.8	39.7
HM8890	40.3	40.5	38.8	39.7	42.3
HM8894	38.2	39.7	36.2	37.4	39.5
HS87-2061	39.3	39.7	39.2	38.3	39.9
HS87-2064	38.9	38.3	39.3	38.0	40.0
HS87-2067	38.3	38.9	36.1	37.8	40.5
K1160	38.4	38.8	37.4	38.0	39.2
K1161	40.5	40.4	40.1	40.8	40.8
K1162	38.5	38.1	38.1	38.3	39.5
K1163	38.2	38.1	37.0	38.6	39.1
K1164	39.5	40.2	39.0	39.6	39.2
LN84-4940	38.3	38.6	37.0	38.8	38.8
LN84-9812	37.8	38.6	37.2	36.9	38.5
LN85-5735	39.1	39.7	37.8	38.3	40.4
LN85-6065	39.9	40.7	39.0	38.6	41.4
LN85-9180	39.1	40.2	37.2	39.6	39.4
LN86-1227	38.8	39.9	37.7	37.5	40.2
LN86-1244	38.9	40.5	36.7	39.3	38.9
LN86-1317	37.6	39.1	36.1	36.2	39.1
LN86-3263	37.7	39.0	36.9	36.4	38.3
LN86-3567	38.6	39.1	38.1	37.5	39.6

UNIFORM PRELIMINARY TEST IIIA, 1989

OIL (%)

Strain	Mean 4 Tests	Winterset IA	Urbana IL	Lafayette IN	Hoytville OH
BURLISON (II)	19.4	19.8	20.1	20.8	16.8
FLYER (IV)	20.2	20.4	20.6	21.6	18.0
RESNIK (III)	20.8	21.2	20.9	22.4	18.5
A88-221006	21.4	21.3	22.5	22.9	18.7
A88-221009	19.9	19.2	20.1	21.0	19.2
A88-221021	20.5	20.4	21.1	21.4	18.9
A88-221022	20.4	20.2	21.9	21.3	18.0
A88-321007	20.8	21.0	21.7	21.4	18.9
A88-321010	20.4	20.4	21.7	21.2	18.4
A88-321012	20.3	19.8	20.7	22.2	18.4
A88-321016	20.7	20.9	22.0	21.6	18.4
A88-321019	20.2	20.4	21.2	21.0	18.1
A88-321021	20.6	20.5	21.7	20.8	19.2
A88-321022	20.9	21.0	21.0	21.7	19.7
A88-321023	20.8	20.9	21.5	21.7	19.0
A88-321024	19.6	20.1	19.7	19.8	18.6
HM8847	20.3	20.5	20.8	21.9	17.8
HM8855	21.3	21.2	21.9	22.4	19.8
HM8890	20.1	20.2	20.4	21.8	17.9
HM8894	20.3	19.8	21.3	21.0	18.9
HS87-2061	21.1	21.8	22.2	21.9	18.6
HS87-2064	21.7	21.7	22.4	22.4	20.1
HS87-2067	22.1	21.5	23.3	23.3	20.2
K1160	19.9	19.7	21.2	20.1	18.7
K1161	19.9	20.1	20.5	20.5	18.5
K1162	21.4	21.2	21.9	23.0	19.4
K1163	20.7	20.3	21.3	22.0	19.0
K1164	20.4	20.9	20.6	21.5	18.7
LN84-4940	21.0	20.9	21.5	22.6	18.8
LN84-9812	21.0	20.2	22.2	22.0	19.6
LN85-5735	20.2	20.9	20.8	20.9	18.0
LN85-6065	19.9	20.2	21.2	20.6	17.7
LN85-9180	20.1	19.8	21.0	21.3	18.4
LN86-1227	20.0	20.2	20.8	20.3	18.5
LN86-1244	19.4	19.2	20.8	20.0	17.7
LN86-1317	20.1	20.1	21.3	20.4	18.7
LN86-3263	20.6	20.1	22.4	20.9	18.8
LN86-3567	19.6	20.6	20.1	19.9	17.9

UNIFORM PRELIMINARY TEST IIIB, 1989

Strain	Parentage	Generation Composited	Unique Traits
Burlison (II)	K74-113-76-486 x Century	F5	Rps1-b, Rps3
Flyer (IV)	Asgrow A3127 (4) x Williams 82	BC3 F2	Rps1-k
Resnik (III)	Asgrow A3127 (4) x Williams 82	BC3 F2	Rps1-k
C1759	C1627 x CX782-257-3-1	F6	
C1760	C1627 x CX782-257-3-1	F6	
C1762	C1627 x CX782-257-3-1	F6	
C1769	Winchester x Harper	F6	Rps1-b, Rps3 (H)
U8669091	U75680 x Lakota	F5	
U8674012	A78-323019 x U20325	F5	
U8761020	Nebsoy x Jogun	F5	
U8761026	Nebsoy x U75326	F5	
U8761042	Asgrow A3127 x U76168	F5	
U8765073	A80-250034 x Century	F5	
Hobbit 87 (dt)	Hobbit (6) x Williams 82	BC5 F3	dt1, Rps1-k
C1773	CX773-28-3-4 x CX663-37-2-2-1-6	F6	dt1
C1774	CX773-28-3-4 x CX663-37-2-2-1-6	F6	dt1
C1775	CX773-28-3-4 x CX663-37-2-2-1-6	F6	dt1
C1776	CX773-28-3-4 x CX663-37-2-2-1-6	F6	dt1
C1777	CX773-28-3-4 x CX663-37-2-2-1-6	F6	dt1
C1782	CX773-28-3-4 x CX859-112	F6	dt1
C1784	CX773-28-3-4 x CX859-112	F5	dt1
HC85-164	HC78-676 x Sprite	F5	dt1
HC85-604	Sprite x Asgrow A3127	F5	dt1
HC85-606	Sprite x Asgrow A3127	F5	dt1
HC85-607	Sprite x Asgrow A3127	F5	dt1
HC85-616	Sprite x Asgrow A3127	F5	dt1
HC85-618	Sprite x Asgrow A3127	F5	dt1
HC85-685	HC78-676 x Asgrow A3127	F5	dt1
HC85-690	HC78-676 x Asgrow A3127	F5	dt1
HC85-1014	HC78-676 x Asgrow A3127	F5	dt1
HC85-2211	Elf x Williams 82	F5	dt1
HC84-2612	HC78-676 x Hobbit	F5	dt1
HC85-6611	HC78-279 x HC78-676	F5	dt1
HC85-6716	HC84-634RE x HC78-676	F5	dt1
Md87-I12D	Forrest x K1007	F10	dt1
U8662002	A78-324002 x Hobbit	F5	dt1
U8662005	A78-324002 x Hobbit	F5	dt1
U8662062	K1047 x Mead	F5	dt1

UNIFORM PRELIMINARY TEST IIIB, 1989

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	Chlorosis Score Ames	Shattering Score Manhattan	BSR-Ames Plant n %	BSR-Ames Stem n %
BURLISON (II)	WTTSBlI	1.7	1	100.0	83.1
FLYER (IV)	PTTSBlI	2.8	1	100.0	54.9
RESNIK (III)	PTTSBlI	3.5	1	100.0	62.7
C1759	PGBDGI	3.8	1	100.0	63.2
C1760	PGBDIbI	2.3	2	100.0	53.1
C1762	PTBDGI	2.7	1	100.0	67.0
C1769	WTTSBlI	3.8	1	100.0	58.7
U8669091	PGBSYI	3.0	1	100.0	67.6
U8674012	PGBSBfI	4.5	1	90.0	71.9
U8761020	PTBSBlI	3.2	2	100.0	94.5
U8761026	WGBSBfI	4.3	1	100.0	74.1
U8761042	PTBSBlD	3.7	2	100.0	66.0
U8765073	WTBDBlI	2.8	2	100.0	83.6
HOBBIT 87 (dt)	WTTSBlD	3.3	1	100.0	85.4
C1773	PGBSYD	2.2	2	100.0	52.1
C1774	PGBSBfD	2.3	1	100.0	70.8
C1775	PGBSIbD	4.2	2	100.0	85.0
C1776	PGTSBfD	3.2	2	100.0	75.0
C1777	PGBSIbD	2.8	1	100.0	79.5
C1782	PGBSIbD	3.7	1	100.0	75.8
C1784	PGBSYD	3.5	1	100.0	75.8
HC85-164	PTBSBrD	3.7	1	100.0	100.0
HC85-604	PTTDBlD	4.3	1	100.0	100.0
HC85-606	WTTDBlD	4.7	1	100.0	98.0
HC85-607	PTTSBlD	4.2	1	100.0	100.0
HC85-616	PTTSBlD	4.2	1	100.0	97.3
HC85-618	PTTSBlD	4.5	1	100.0	97.3
HC85-685	PTBSBlD	3.0	1	100.0	100.0
HC85-690	PTBSBlD	3.7	1	100.0	100.0
HC85-1014	PTTSBlD	3.8	1	100.0	96.2
HC85-2211	PTTSBlD	4.5	1	100.0	97.3
HC84-2612	PTTSBlD	3.2	1	100.0	100.0
HC85-6611	PTTSBlD	3.2	1	100.0	99.1
HC85-6716	WTBSBrD	2.8	1	100.0	95.7
MD87-I12D	WTBDBlD	3.7	1	100.0	86.1
U8662002	WGTSBfD	4.0	1	100.0	95.1
U8662005	WTBDBlD	2.8	1	100.0	97.3
U8662062	PTTSBlD	4.3	1	100.0	100.0

UNIFORM PRELIMINARY TEST IIIB, 1989

DISEASE DATA

Strain	PR		PS	PSB	SMV
	Ames	Urbana	Lafayette		
	Race 4	Race	a	n	a
	Reaction	1	%	%	Score
BURLISON (II)	R	R	28	28	3E
FLYER (IV)	H	R	8	10	4E
RESNIK (III)	R	R	22	26	3E
C1759	S	S	16	30	5E
C1760	S	S	4	32	5M
C1762	S	S	12	4	5S
C1769	R	R	2	8	5M
U8669091	S	R	14	14	5M
U8674012	S	S	4	42	5E
U8761020	S	M	8	26	5E
U8761026	S	S	0	26	3M
U8761042	R	R	8	20	5E
U8765073	S	R	8	32	5E
HOBBIT 87 (dt)	R	R	0	4	3M
C1773	S	S	2	2	3M
C1774	S	S	0	0	3M
C1775	S	S	2	2	2M
C1776	S	S	0	2	3M
C1777	S	S	4	8	3M
C1782	S	R	0	4	3E
C1784	S	R	0	16	5E
HC85-164	S	S	2	18	5E
HC85-604	S	S	4	14	3M
HC85-606	S	S	6	14	5E
HC85-607	S	S	0	30	3E
HC85-616	S	S	0	28	5E
HC85-618	S	S	0	4	4E
HC85-685	S	R	4	16	5E
HC85-690	S	R	2	2	5E
HC85-1014	S	S	0	22	5M
HC85-2211	S	S	0	14	4E
HC84-2612	S	R	2	28	3E
HC85-6611	S	R	2	24	4E
HC85-6716	S	R	6	18	3E
MD87-I12D	S	R	0	18	3E
U8662002	S	S	4	20	5E
U8662005	S	R	4	32	5E
U8662062	H	M	2	2	4M

UNIFORM PRELIMINARY TEST IIIB, 1989

REGIONAL SUMMARY

No. of Tests / Strain	Yield 9 bu/a	Rank 9 No.	Maturity 6 Date	Lodging 9 Score	Plant Height 9 In.	Seed Quality 9 Score	Seed Size 9 g/100	Composition Protein 3 %	Composition Oil 3 %
BURLISON (II)	49.3	30	-4.7	1.6	31	2.1	15.7	41.8	19.1
FLYER (IV)	51.2	17	6.2	1.6	35	1.7	12.6	40.2	19.9
RESNIK (III)	54.0	12	09/24*	1.8	34	1.6	13.4	39.8	20.1
C1759	50.6	20	3.8	1.9	37	2.9	14.3	38.2	19.3
C1760	49.3	29	5.7	2.0	37	2.3	13.2	39.9	19.9
C1762	50.3	23	6.0	1.8	35	2.7	14.4	39.5	19.6
C1769	49.9	25	2.2	2.1	37	2.1	17.2	40.3	20.0
U8669091	50.6	20	-0.3	1.9	33	2.1	14.1	39.0	20.5
U8674012	43.3	38	-2.5	1.6	33	2.5	13.0	38.1	19.6
U8761020	48.1	31	-5.5	2.3	34	2.1	13.2	39.1	21.2
U8761026	47.6	33	-2.5	1.9	29	1.8	13.0	39.0	19.6
U8761042	47.6	33	-2.2	1.6	30	1.6	13.1	39.8	20.4
U8765073	47.0	35	-5.0	1.8	40	2.3	15.7	40.8	19.7
HOBBIT 87 (dt)	56.5	3	2.3	1.2	23	1.4	14.2	38.0	21.0
C1773	49.6	27	7.0	1.5	32	2.0	13.3	39.0	20.2
C1774	49.9	25	9.5	1.6	30	1.9	12.7	40.3	19.8
C1775	47.9	32	4.0	1.7	33	2.2	13.8	41.7	19.5
C1776	49.4	28	2.7	1.3	28	1.9	12.2	40.4	19.6
C1777	51.4	16	7.8	1.7	32	2.2	14.1	40.5	19.3
C1782	46.4	36	7.2	2.2	33	1.8	11.1	39.2	18.5
C1784	46.3	37	6.0	1.8	30	1.8	12.4	38.9	19.8
HC85-164	58.0	1	3.5	1.3	25	1.7	14.5	37.5	20.6
HC85-604	55.2	7	3.2	1.1	24	1.7	14.3	38.5	20.8
HC85-606	55.4	4	3.7	1.2	24	1.8	14.3	38.6	20.6
HC85-607	57.2	2	2.7	1.3	25	1.7	14.5	38.4	20.6
HC85-616	54.2	11	3.8	1.3	25	1.6	13.7	37.6	20.2
HC85-618	54.2	10	4.5	1.2	25	1.8	14.7	38.5	20.9
HC85-685	52.6	15	5.8	1.1	25	1.8	13.2	39.5	19.2
HC85-690	54.6	9	5.0	1.1	26	1.7	14.0	40.0	19.5
HC85-1014	50.8	18	1.2	1.2	23	1.7	14.4	40.2	20.3
HC85-2211	52.9	14	5.8	1.2	23	1.6	16.0	39.3	19.6
HC84-2612	55.4	4	0.3	1.1	24	1.8	13.6	37.2	20.7
HC85-6611	55.3	6	4.5	1.2	25	1.9	14.4	39.4	19.9
HC85-6716	55.1	8	3.8	1.3	24	1.9	14.3	39.1	20.0
MD87-I12D	53.1	13	7.5	1.2	29	1.7	15.1	39.3	19.7
U8662002	50.1	24	-0.8	1.1	23	1.8	13.8	37.8	21.3
U8662005	50.8	18	-1.8	1.1	23	2.3	13.9	39.1	20.5
U8662062	50.6	20	-1.3	1.4	25	1.8	15.3	42.9	19.3

*129.2 Days After Planting

UNIFORM PRELIMINARY TEST IIIB, 1989

YIELD (bu/a)

Strain	Mean 9 Tests	Fair-field IA	Winterset IA	Urbana IL	Lafay-ette IN
BURLISON (II)	49.3	29.6	51.3	61.9	45.6
FLYER (IV)	51.2	28.9	54.0	64.4	52.3
RESNIK (III)	54.0	25.4	50.3	70.9	53.3
C1759	50.6	36.7	56.5	56.5	45.5
C1760	49.3	36.3	52.6	58.9	47.7
C1762	50.3	30.9	55.4	59.3	49.1
C1769	49.9	31.5	49.6	60.4	47.2
U8669091	50.6	31.5	52.0	62.6	43.8
U8674012	43.3	29.7	50.4	27.5	44.4
U8761020	48.1	38.2	47.8	58.0	44.0
U8761026	47.6	28.8	49.9	43.6	40.8
U8761042	47.6	23.3	50.8	61.6	44.9
U8765073	47.0	20.9	53.2	60.2	38.1
HOBBIT 87 (dt)	56.5	36.0	60.0	65.9	51.0
C1773	49.6	35.9	49.3	61.8	49.9
C1774	49.9	34.5	47.9	62.3	52.0
C1775	47.9	27.3	43.2	60.3	48.4
C1776	49.4	31.2	52.9	61.2	52.2
C1777	51.4	37.4	49.4	60.3	54.1
C1782	46.4	37.9	49.8	60.3	42.1
C1784	46.3	37.3	52.2	58.5	41.6
HC85-164	58.0	35.8	59.4	71.8	50.9
HC85-604	55.2	27.0	61.2	71.1	49.2
HC85-606	55.4	32.0	63.0	67.8	44.5
HC85-607	57.2	37.3	62.6	74.4	47.2
HC85-616	54.2	35.4	58.0	68.4	46.9
HC85-618	54.2	24.4	59.7	67.7	49.3
HC85-685	52.6	28.4	56.8	68.1	45.1
HC85-690	54.6	29.2	54.1	70.1	52.4
HC85-1014	50.8	25.1	55.9	57.5	50.7
HC85-2211	52.9	32.7	59.7	61.0	50.3
HC84-2612	55.4	14.2	55.9	70.3	48.5
HC85-6611	55.3	29.2	57.6	68.4	48.9
HC85-6716	55.1	29.6	58.7	66.1	46.6
MD87-I12D	53.1	29.8	54.6	70.0	47.6
U8662002	50.1	25.6	61.2	47.7	42.0
U8662005	50.8	24.0	58.0	64.3	43.7
U8662062	50.6	38.6	54.2	63.7	44.5
C.V. (%)		12.3	4.3	7.1	7.5
L.S.D. (5%)		7.6	4.6	8.9	7.3
Row Sp. (In.)		27	27	30	24
Rows/Plot		4	4	4	4
Reps		2	2	2	2

UNIFORM PRELIMINARY TEST IIIB, 1989

YIELD (bu/a)

Strain	Man-hattan KS	Lexing-ton NE	Lincoln NE	Hoyt-ville OH	So. Charles-ton OH
BURLISON (II)	55.6	55.7	52.7	34.6	56.7
FLYER (IV)	56.0	46.6	55.0	30.9	72.7
RESNIK (III)	68.6	53.8	58.4	33.0	72.5
C1759	59.1	51.1	42.3	36.2	71.2
C1760	48.1	51.0	43.7	34.5	70.9
C1762	55.9	50.4	46.3	32.9	72.6
C1769	55.0	54.5	48.3	38.2	64.4
U8669091	56.1	50.5	52.3	35.7	70.9
U8674012	48.2	44.0	40.9	36.0	68.6
U8761020	52.8	57.0	40.3	30.7	63.7
U8761026	58.4	58.3	48.3	32.4	68.3
U8761042	52.2	51.2	49.1	31.9	63.2
U8765073	55.8	54.7	41.6	32.3	66.0
HOBBIT 87 (dt)	75.6	54.5	65.3	32.5	67.8
C1773	53.1	42.3	50.6	27.9	75.8
C1774	64.1	45.8	54.9	14.9	72.4
C1775	55.1	44.1	50.4	29.7	72.4
C1776	56.2	43.2	53.3	28.2	66.1
C1777	59.3	41.9	55.0	28.4	76.5
C1782	52.3	38.0	50.7	17.7	69.1
C1784	54.9	42.2	47.9	15.0	66.9
HC85-164	71.6	63.0	63.9	31.3	74.1
HC85-604	50.1	60.6	63.8	35.3	78.9
HC85-606	62.5	60.6	63.8	37.8	67.0
HC85-607	66.0	58.9	62.0	34.4	72.1
HC85-616	70.2	52.1	59.2	32.6	64.6
HC85-618	65.7	56.1	58.1	37.7	68.7
HC85-685	58.4	48.7	57.9	36.9	73.4
HC85-690	64.0	53.1	60.9	31.3	76.2
HC85-1014	59.4	52.9	60.8	29.2	65.3
HC85-2211	62.4	48.2	54.5	31.7	75.9
HC84-2612	72.4	58.6	66.7	34.6	77.6
HC85-6611	61.5	54.7	60.9	38.7	78.2
HC85-6716	66.2	58.9	59.2	32.9	77.5
MD87-I12D	61.3	51.3	53.2	34.8	75.1
U8662002	56.8	59.4	61.8	30.4	65.8
U8662005	40.5	66.6	61.3	40.4	58.7
U8662062	58.6	54.8	58.9	26.2	55.9
C.V. (%)	6.2	7.7	4.8	10.3	5.7
L.S.D. (5%)	7.4	8.2	5.3	6.5	8.1
Row Sp. (In.)	30	30	30	30	7
Rows/Plot	4	4	4	4	8
Reps	2	2	2	2	2

UNIFORM PRELIMINARY TEST IIIB, 1989

YIELD RANK

Strain	Yield Rank	Fair-field IA	Winterset IA	Urbana IL	Lafay-ette IN
BURLISON (II)	30	22	27	20	24
FLYER (IV)	17	26	21	15	4
RESNIK (III)	12	32	30	4	2
C1759	20	7	14	35	25
C1760	29	8	24	31	18
C1762	23	19	17	30	14
C1769	25	16	33	25	20
U8669091	20	16	26	18	32
U8674012	38	21	29	38	30
U8761020	31	2	37	33	31
U8761026	33	27	31	37	37
U8761042	33	36	28	22	27
U8765073	35	37	22	29	38
HOBBIT 87 (dt)	3	9	5	14	7
C1773	27	10	35	21	11
C1774	25	13	36	19	6
C1775	32	29	38	26	17
C1776	28	18	23	23	5
C1777	16	4	34	26	1
C1782	36	3	32	26	34
C1784	37	5	25	32	36
HC85-164	1	11	8	2	8
HC85-604	7	30	3	3	13
HC85-606	4	15	1	11	29
HC85-607	2	5	2	1	20
HC85-616	11	12	10	8	22
HC85-618	10	34	6	12	12
HC85-685	15	28	13	10	26
HC85-690	9	24	20	6	3
HC85-1014	18	33	15	34	9
HC85-2211	14	14	6	24	10
HC84-2612	4	38	15	5	16
HC85-6611	6	24	12	9	15
HC85-6716	8	22	9	13	23
MD87-I12D	13	20	18	7	19
U8662002	24	31	3	36	35
U8662005	18	35	10	16	33
U8662062	20	1	19	17	28

UNIFORM PRELIMINARY TEST IIIB, 1989

YIELD RANK

Strain	Man-hattan KS	Lexing-ton NE	Lincoln NE	Hoyt-ville OH	So. Charles-ton OH
BURLISON (II)	27	12	24	12	37
FLYER (IV)	24	30	18	27	12
RESNIK (III)	5	18	15	16	14
C1759	17	24	35	7	18
C1760	37	25	34	14	19
C1762	25	27	33	17	13
C1769	29	16	30	3	33
U8669091	23	26	25	9	19
U8674012	36	33	37	8	23
U8761020	32	10	38	28	34
U8761026	19	9	30	21	24
U8761042	34	23	29	23	35
U8765073	26	14	36	22	29
HOBBIT 87 (dt)	1	16	2	20	25
C1773	31	35	27	34	8
C1774	9	31	20	38	15
C1775	28	32	28	30	15
C1776	22	34	22	33	28
C1777	16	37	19	32	5
C1782	33	38	26	36	21
C1784	30	36	32	37	27
HC85-164	3	2	3	25	10
HC85-604	35	3	4	10	1
HC85-606	11	3	4	4	26
HC85-607	7	6	6	15	17
HC85-616	4	21	12	19	32
HC85-618	8	11	16	5	22
HC85-685	19	28	17	6	11
HC85-690	10	19	9	25	6
HC85-1014	15	20	11	31	31
HC85-2211	12	29	21	24	7
HC84-2612	2	8	1	12	3
HC85-6611	13	14	9	2	2
HC85-6716	6	6	12	17	4
MD87-I12D	14	22	23	11	9
U8662002	21	5	7	29	30
U8662005	38	1	8	1	36
U8662062	18	13	14	35	38

UNIFORM PRELIMINARY TEST IIIB, 1989

MATURITY (date)

Strain	Mean 6 Tests	Fair-field IA	Winterset IA	Urbana IL	Lafay-ette IN
BURLISON (II)	-4.7		-5	-6	-7
FLYER (IV)	6.2		6	5	7
RESNIK (III)	09/24		09/19	09/27	09/16
C1759	3.8		7	1	3
C1760	5.7		9	5	8
C1762	6.0		8	5	8
C1769	2.2		3	1	1
U8669091	-0.3		-2	-2	-2
U8674012	-2.5		-4	-10	-5
U8761020	-5.5		-2	-8	-7
U8761026	-2.5		0	-6	-3
U8761042	-2.2		1	-6	0
U8765073	-5.0		-3	-7	-8
HOBBIT 87 (dt)	2.3		2	1	5
C1773	7.0		8	6	13
C1774	9.5		10	7	16
C1775	4.0		3	3	8
C1776	2.7		4	2	7
C1777	7.8		10	5	14
C1782	7.2		10	4	13
C1784	6.0		10	2	9
HC85-164	3.5		2	3	4
HC85-604	3.2		2	4	6
HC85-606	3.7		1	3	6
HC85-607	2.7		2	2	6
HC85-616	3.8		2	3	7
HC85-618	4.5		2	3	8
HC85-685	5.8		2	7	11
HC85-690	5.0		2	4	12
HC85-1014	1.2		2	0	6
HC85-2211	5.8		5	4	9
HC84-2612	0.3		-1	1	3
HC85-6611	4.5		2	4	7
HC85-6716	3.8		0	3	7
MD87-I12D	7.5		8	6	12
U8662002	-0.8		-2	-1	4
U8662005	-1.8		-2	-1	0
U8662062	-1.3		-2	-6	-1
Date Planted	05/18		05/10	05/15	05/16
Days to Mature	129.2		132	135	123

UNIFORM PRELIMINARY TEST IIIB, 1989

MATURITY (date)

Strain	Man-hattan KS	Lexing-ton NE	Lincoln NE	Hoyt-ville OH	So. Charles-ton OH
BURLISON (II)	-1		-4		-5
FLYER (IV)	8		4		7
RESNIK (III)	09/23		10/03		09/27
C1759	4		2		6
C1760	3		3		6
C1762	6		2		7
C1769	5		2		1
U8669091	4		0		0
U8674012	5		0		-1
U8761020	-3		-6		-7
U8761026	1		-3		-4
U8761042	-1		-4		-3
U8765073	1		-3		-10
HOBBIT 87 (dt)	1		0		5
C1773	7		2		6
C1774	8		5		11
C1775	5		0		5
C1776	0		-1		4
C1777	8		2		8
C1782	7		2		7
C1784	8		0		7
HC85-164	7		2		3
HC85-604	2		1		4
HC85-606	6		1		5
HC85-607	4		1		1
HC85-616	5		1		5
HC85-618	7		1		6
HC85-685	7		1		7
HC85-690	3		2		7
HC85-1014	-1		-2		2
HC85-2211	8		2		7
HC84-2612	-1		-2		2
HC85-6611	6		2		6
HC85-6716	7		1		5
MD87-I12D	8		4		7
U8662002	-3		-3		0
U8662005	-3		-2		-3
U8662062	1		2		-2
Date Planted	05/24		05/24		05/19
Days to Mature	122		132		131

UNIFORM PRELIMINARY TEST IIIB, 1989

LODGING (score)

Strain	Mean 9 Tests	Fair-field IA	Winterset IA	Urbana IL	Lafay-ette IN
BURLISON (II)	1.6	1.1	1.2	1.0	1.0
FLYER (IV)	1.6	1.3	1.4	2.0	1.0
RESNIK (III)	1.8	1.3	1.3	2.5	1.0
C1759	1.9	1.3	1.6	1.5	1.0
C1760	2.0	1.2	1.8	1.5	1.3
C1762	1.8	1.3	1.8	1.5	1.0
C1769	2.1	1.2	1.7	3.0	1.5
U8669091	1.9	1.2	1.2	2.0	1.0
U8674012	1.6	1.1	1.5	1.0	1.0
U8761020	2.3	1.2	1.8	1.5	1.8
U8761026	1.9	1.3	1.7	1.0	1.0
U8761042	1.6	1.1	1.6	1.5	1.0
U8765073	1.8	1.1	1.5	1.5	1.0
HOBBIT 87 (dt)	1.2	1.2	1.1	1.0	1.0
C1773	1.5	1.4	1.8	1.0	1.3
C1774	1.6	1.6	1.4	1.0	1.5
C1775	1.7	1.6	1.7	1.5	2.0
C1776	1.3	1.3	1.5	1.0	1.0
C1777	1.7	1.6	1.9	1.0	1.8
C1782	2.2	1.6	2.7	2.5	2.0
C1784	1.8	1.3	2.1	2.5	1.0
HC85-164	1.3	1.3	1.3	1.0	1.0
HC85-604	1.1	1.2	1.1	1.0	1.0
HC85-606	1.2	1.2	1.3	1.0	1.0
HC85-607	1.3	1.2	1.4	1.0	1.0
HC85-616	1.3	1.2	1.1	1.0	1.0
HC85-618	1.2	1.2	1.4	1.0	1.0
HC85-685	1.1	1.2	1.2	1.0	1.0
HC85-690	1.1	1.2	1.2	1.0	1.0
HC85-1014	1.2	1.2	1.2	1.0	1.0
HC85-2211	1.2	1.3	1.2	1.0	1.0
HC84-2612	1.1	1.2	1.1	1.0	1.0
HC85-6611	1.2	1.2	1.4	1.0	1.0
HC85-6716	1.3	1.2	1.4	1.5	1.0
MD87-I12D	1.2	1.3	1.2	1.0	1.0
U8662002	1.1	1.1	1.1	1.0	1.0
U8662005	1.1	1.1	1.1	1.0	1.0
U8662062	1.4	1.2	1.2	1.0	1.0

UNIFORM PRELIMINARY TEST IIIB, 1989

LODGING (score)

Strain	Man-hattan KS	Lexing-ton NE	Lincoln NE	Hoyt-ville OH	So. Charles-ton OH
BURLISON (II)	4.0	1.0	2.5	1.4	1.0
FLYER (IV)	3.0	1.0	1.5	1.5	1.3
RESNIK (III)	3.0	1.3	2.5	1.6	1.3
C1759	3.0	2.0	3.3	1.5	2.0
C1760	4.0	1.8	2.8	1.6	2.3
C1762	3.0	1.3	2.8	1.6	2.0
C1769	4.0	1.3	3.3	1.6	1.5
U8669091	4.0	1.3	2.8	1.4	1.8
U8674012	3.0	1.3	2.8	1.6	1.5
U8761020	3.0	2.8	3.5	1.7	3.5
U8761026	4.0	2.5	2.8	1.6	1.3
U8761042	2.0	1.0	3.5	1.4	1.5
U8765073	3.0	2.5	2.8	1.5	1.5
HOBBIT 87 (dt)	1.0	1.0	2.0	1.3	1.0
C1773	2.0	2.0	1.8	1.6	1.0
C1774	2.0	1.3	1.8	1.6	1.8
C1775	2.0	1.5	2.0	1.8	1.5
C1776	1.0	1.8	1.8	1.6	1.0
C1777	2.0	2.0	2.0	1.6	1.8
C1782	3.0	2.8	2.3	1.6	1.3
C1784	2.0	1.5	2.8	1.4	1.3
HC85-164	1.0	1.5	2.0	1.5	1.0
HC85-604	1.0	1.0	1.3	1.5	1.0
HC85-606	1.0	1.0	1.5	1.6	1.0
HC85-607	1.0	1.0	2.0	1.7	1.0
HC85-616	1.0	1.5	2.3	1.6	1.0
HC85-618	1.0	1.3	1.5	1.7	1.0
HC85-685	1.0	1.0	1.0	1.6	1.0
HC85-690	1.0	1.0	1.0	1.7	1.0
HC85-1014	1.0	1.5	1.5	1.4	1.0
HC85-2211	1.0	1.3	1.3	1.6	1.0
HC84-2612	1.0	1.0	1.5	1.4	1.0
HC85-6611	1.0	1.0	1.5	1.5	1.0
HC85-6716	1.0	1.0	1.8	1.6	1.0
MD87-I12D	1.0	1.0	1.5	1.6	1.0
U8662002	1.0	1.0	1.5	1.4	1.0
U8662005	1.0	1.3	1.3	1.5	1.0
U8662062	2.0	1.3	2.5	1.4	1.0

UNIFORM PRELIMINARY TEST IIIB, 1989

PLANT HEIGHT (inches)

Strain	Mean 9 Tests	Fair-field IA	Winterset IA	Urbana IL	Lafay-ette IN
BURLISON (II)	31	27	36	29	30
FLYER (IV)	35	24	40	40	33
RESNIK (III)	34	28	38	36	33
C1759	37	29	44	37	35
C1760	37	28	40	37	36
C1762	35	24	40	37	33
C1769	37	28	40	39	38
U8669091	33	26	38	38	29
U8674012	33	30	40	26	32
U8761020	34	28	42	36	33
U8761026	29	27	36	27	29
U8761042	30	26	33	32	30
U8765073	40	29	44	43	36
HOBBIT 87 (dt)	23	22	26	25	24
C1773	32	30	36	29	32
C1774	30	28	34	31	33
C1775	33	32	38	34	35
C1776	28	25	32	28	30
C1777	32	32	37	29	35
C1782	33	30	38	34	33
C1784	30	30	36	31	27
HC85-164	25	24	29	25	25
HC85-604	24	20	30	24	24
HC85-606	24	22	28	27	23
HC85-607	25	24	28	26	26
HC85-616	25	23	29	27	26
HC85-618	25	22	30	26	25
HC85-685	25	22	30	28	26
HC85-690	26	24	30	28	28
HC85-1014	23	22	26	23	24
HC85-2211	23	21	27	24	23
HC84-2612	24	22	26	27	27
HC85-6611	25	24	30	28	25
HC85-6716	24	21	28	30	23
MD87-I12D	29	25	34	31	29
U8662002	23	20	28	23	25
U8662005	23	18	30	26	23
U8662062	25	22	28	27	26

UNIFORM PRELIMINARY TEST IIIB, 1989

PLANT HEIGHT (inches)

Strain	Man-hattan KS	Lexing-ton NE	Lincoln NE	Hoyt-ville OH	So. Charles-ton OH
BURLISON (II)	36	40	29	24	24
FLYER (IV)	43	41	37	26	35
RESNIK (III)	43	40	35	25	32
C1759	43	46	41	30	27
C1760	38	47	44	30	37
C1762	43	41	38	26	35
C1769	46	41	40	26	36
U8669091	35	37	35	26	32
U8674012	37	38	39	24	29
U8761020	34	38	36	24	31
U8761026	26	36	32	26	26
U8761042	28	38	31	25	29
U8765073	52	46	46	26	34
HOBBIT 87 (dt)	21	27	27	17	18
C1773	36	38	34	26	26
C1774	28	36	30	23	31
C1775	31	36	37	30	26
C1776	27	34	31	24	24
C1777	33	34	35	26	28
C1782	36	37	36	24	30
C1784	29	36	33	21	26
HC85-164	26	24	28	20	20
HC85-604	16	27	27	23	24
HC85-606	20	26	28	20	19
HC85-607	22	26	26	22	22
HC85-616	20	30	28	21	22
HC85-618	20	26	27	22	23
HC85-685	20	26	27	24	19
HC85-690	24	30	27	24	22
HC85-1014	21	25	27	18	17
HC85-2211	19	27	24	20	18
HC84-2612	22	26	26	21	21
HC85-6611	23	23	27	20	22
HC85-6716	21	24	25	18	22
MD87-I12D	30	32	34	21	22
U8662002	21	26	28	19	20
U8662005	15	26	29	21	19
U8662062	26	28	29	21	18

UNIFORM PRELIMINARY TEST IIIB, 1989

SEED QUALITY (score)

Strain	Mean 9 Tests	Fair-field IA	Winterset IA	Urbana IL	Lafay-ette IN
BURLISON (II)	2.1	3.5	3.0	1.2	1.5
FLYER (IV)	1.7	3.5	3.0	1.2	1.0
RESNIK (III)	1.6	3.5	2.5	1.2	1.0
C1759	2.9	4.0	4.5	2.4	1.5
C1760	2.3	3.5	3.0	1.5	1.5
C1762	2.7	4.0	4.0	1.8	1.5
C1769	2.1	3.5	3.5	1.2	1.5
U8669091	2.1	3.5	3.0	1.7	1.5
U8674012	2.5	4.0	3.5	2.3	2.0
U8761020	2.1	3.5	3.0	1.2	1.5
U8761026	1.8	3.5	3.0	1.5	1.5
U8761042	1.6	3.5	3.0	1.2	1.0
U8765073	2.3	4.0	4.0	1.5	1.5
HOBBIT 87 (dt)	1.4	3.0	2.0	1.2	1.5
C1773	2.0	3.0	3.5	1.9	1.5
C1774	1.9	3.5	3.0	1.5	1.0
C1775	2.2	3.5	3.5	1.5	1.5
C1776	1.9	3.5	3.0	1.2	1.5
C1777	2.2	3.5	4.0	1.5	1.5
C1782	1.8	3.5	3.0	1.2	1.0
C1784	1.8	3.0	3.5	1.2	1.5
HC85-164	1.7	3.0	2.5	1.4	1.5
HC85-604	1.7	3.5	2.5	1.2	1.0
HC85-606	1.8	3.5	2.5	1.4	1.5
HC85-607	1.7	3.0	3.0	1.4	1.0
HC85-616	1.6	3.0	3.0	1.2	1.5
HC85-618	1.8	3.5	2.5	1.2	1.0
HC85-685	1.8	3.5	3.0	1.2	1.5
HC85-690	1.7	4.0	2.5	1.2	1.5
HC85-1014	1.7	3.5	3.0	1.2	1.0
HC85-2211	1.6	3.5	2.5	1.2	1.0
HC84-2612	1.8	4.5	2.5	1.4	2.0
HC85-6611	1.9	4.0	2.5	1.4	2.0
HC85-6716	1.9	3.5	2.5	1.4	1.5
MD87-I12D	1.7	3.0	3.0	1.2	1.0
U8662002	1.8	4.5	2.5	1.8	1.5
U8662005	2.3	4.0	3.5	1.4	1.5
U8662062	1.8	3.5	3.0	1.5	1.5

UNIFORM PRELIMINARY TEST IIIB, 1989

SEED QUALITY (score)

Strain	Man-hattan KS	Lexing-ton NE	Lincoln NE	Hoyt-ville OH	So. Charles-ton OH
BURLISON (II)	4.0	1.5	2.0	1.3	2.0
FLYER (IV)	1.0	1.3	2.0	1.4	1.5
RESNIK (III)	1.0	1.3	1.8	1.4	1.5
C1759	3.0	1.8	4.0	2.6	3.5
C1760	3.0	1.5	4.0	2.0	2.5
C1762	3.0	1.8	4.0	2.3	3.0
C1769	3.0	1.5	3.0	1.6	2.0
U8669091	4.0	1.0	2.5	1.3	2.0
U8674012	3.0	1.5	4.0	1.8	2.5
U8761020	3.0	1.3	4.0	1.7	1.5
U8761026	1.0	1.5	3.0	1.7	1.0
U8761042	1.0	1.0	2.0	1.4	1.5
U8765073	2.0	2.0	3.5	2.1	1.5
HOBBIT 87 (dt)	1.0	1.3	2.0	1.3	1.0
C1773	2.0	1.8	2.0	1.5	2.5
C1774	2.0	2.0	2.0	1.9	1.5
C1775	3.0	1.5	3.0	1.8	2.0
C1776	2.0	1.5	2.0	1.6	2.0
C1777	2.0	1.5	3.0	1.6	2.5
C1782	1.0	1.8	2.0	2.0	1.5
C1784	1.0	1.5	2.5	1.6	2.0
HC85-164	2.0	1.5	2.0	1.3	1.5
HC85-604	2.0	1.5	2.0	1.3	1.0
HC85-606	2.0	1.5	2.0	1.4	1.5
HC85-607	2.0	1.5	2.5	1.2	1.0
HC85-616	1.0	1.5	2.0	1.8	1.0
HC85-618	2.0	1.5	2.0	1.7	1.5
HC85-685	2.0	1.3	2.0	1.7	1.5
HC85-690	2.0	1.3	2.0	1.5	1.0
HC85-1014	2.0	1.3	2.0	1.4	1.0
HC85-2211	1.0	1.5	2.0	1.5	1.0
HC84-2612	2.0	1.0	2.0	1.3	1.5
HC85-6611	3.0	1.3	2.0	1.3	1.5
HC85-6716	2.0	1.3	3.0	1.5	1.5
MD87-I12D	2.0	1.3	2.0	1.6	1.0
U8662002	1.0	1.0	2.5	1.3	1.5
U8662005	5.0	1.5	2.0	1.6	1.5
U8662062	2.0	1.0	2.0	1.5	1.5

UNIFORM PRELIMINARY TEST IIIB, 1989

SEED SIZE (g/100)

Strain	Mean 9 Tests	Fair-field IA	Winterset IA	Urbana IL	Lafay-ette IN
BURLISON (II)	15.7	16.0	16.3	17.4	18.1
FLYER (IV)	12.6	13.9	14.4	14.1	17.6
RESNIK (III)	13.4	14.5	14.6	14.8	17.6
C1759	14.3	16.2	15.4	15.1	17.5
C1760	13.2	15.4	14.8	15.1	17.1
C1762	14.4	16.1	15.8	16.1	19.5
C1769	17.2	19.1	18.2	19.3	21.8
U8669091	14.1	17.3	15.1	14.7	18.6
U8674012	13.0	13.8	13.4	15.4	15.6
U8761020	13.2	13.8	14.0	14.9	16.9
U8761026	13.0	14.6	13.9	14.5	15.7
U8761042	13.1	12.7	14.2	15.2	16.5
U8765073	15.7	16.6	16.0	17.5	17.4
HOBBIT 87 (dt)	14.2	14.7	15.8	16.4	17.5
C1773	13.3	14.4	14.4	15.7	17.8
C1774	12.7	14.1	14.0	14.5	16.8
C1775	13.8	15.0	14.8	15.9	18.5
C1776	12.2	13.5	14.1	14.2	15.6
C1777	14.1	15.4	16.4	18.3	18.7
C1782	11.1	13.6	12.8	12.9	15.7
C1784	12.4	15.1	14.4	14.5	16.5
HC85-164	14.5	15.3	16.2	16.7	19.1
HC85-604	14.3	16.3	15.5	16.1	18.8
HC85-606	14.3	16.4	15.4	15.5	19.2
HC85-607	14.5	17.0	15.8	16.1	19.3
HC85-616	13.7	16.2	15.0	15.8	18.5
HC85-618	14.7	16.1	16.3	16.7	20.1
HC85-685	13.2	15.1	14.8	15.0	18.1
HC85-690	14.0	15.3	15.1	16.3	18.8
HC85-1014	14.4	17.4	15.7	14.8	19.0
HC85-2211	16.0	16.3	18.4	18.9	21.5
HC84-2612	13.6	13.7	15.4	15.6	17.3
HC85-6611	14.4	15.0	16.5	17.1	18.8
HC85-6716	14.3	15.7	16.1	15.8	18.1
MD87-I12D	15.1	16.6	16.5	16.8	20.0
U8662002	13.8	14.5	15.7	15.6	18.0
U8662005	13.9	14.4	14.5	16.5	17.6
U8662062	15.3	16.6	16.2	16.9	18.0

UNIFORM PRELIMINARY TEST IIIB, 1989

SEED SIZE (g/100)

Strain	Man-hattan KS	Lexing-ton NE	Lincoln NE	Hoyt-ville OH	So. Charles-ton OH
BURLISON (II)	18.8	20.4	18.6	16.5	17.0
FLYER (IV)	15.4	14.4	14.5	12.3	14.4
RESNIK (III)	15.1	15.9	16.0	14.0	15.5
C1759	17.4	16.4	16.6	14.3	17.5
C1760	15.0	15.4	14.5	13.1	15.7
C1762	17.6	16.8	15.9	14.5	17.2
C1769	21.9	20.2	20.1	16.2	19.4
U8669091	16.4	16.7	17.5	13.8	15.0
U8674012	16.2	16.7	14.7	12.5	14.2
U8761020	16.6	17.0	15.1	13.0	14.2
U8761026	16.8	15.3	14.9	12.8	13.8
U8761042	15.9	15.9	15.7	13.1	15.2
U8765073	18.3	20.7	18.5	16.7	17.4
HOBBIT 87 (dt)	16.8	17.3	17.6	13.9	15.5
C1773	16.6	14.6	16.2	11.9	15.8
C1774	16.0	13.6	15.2	11.3	15.8
C1775	16.9	15.6	16.9	13.5	15.8
C1776	14.6	13.4	14.8	11.1	13.9
C1777	17.2	13.9	17.7	11.4	16.5
C1782	14.1	11.3	12.9	9.4	13.0
C1784	14.9	12.6	15.1	11.0	13.7
HC85-164	17.8	17.8	17.2	12.9	16.7
HC85-604	19.2	17.1	17.2	11.8	15.3
HC85-606	18.1	18.1	16.7	12.4	15.8
HC85-607	18.3	18.0	17.1	13.1	14.9
HC85-616	17.0	16.3	16.3	11.9	14.7
HC85-618	18.1	18.4	17.1	13.5	16.0
HC85-685	16.7	15.3	14.2	11.5	15.8
HC85-690	17.3	16.2	16.4	11.8	17.8
HC85-1014	18.6	17.0	16.2	12.5	17.0
HC85-2211	20.1	19.3	18.6	13.9	18.9
HC84-2612	14.5	16.8	17.0	13.3	16.1
HC85-6611	17.5	16.2	17.1	12.2	17.9
HC85-6716	17.3	17.6	17.6	12.2	16.3
MD87-I12D	20.6	17.8	17.2	13.0	17.1
U8662002	17.4	17.4	16.6	13.2	14.2
U8662005	19.6	16.8	15.6	12.2	15.1
U8662062	18.7	18.8	18.5	15.2	17.2

UNIFORM PRELIMINARY TEST IIIB, 1989

PROTEIN (%)

Strain	Mean 3 Tests	Winterset IA	Lafayette IN	Hoytville OH
BURLISON (II)	41.8	41.5	40.5	43.3
FLYER (IV)	40.2	40.6	39.3	40.6
RESNIK (III)	39.8	39.4	38.6	41.3
C1759	38.2	39.0	35.4	40.3
C1760	39.9	39.5	39.9	40.3
C1762	39.5	39.9	38.4	40.1
C1769	40.3	41.1	39.8	39.9
U8669091	39.0	39.5	36.4	41.0
U8674012	38.1	39.2	35.7	39.4
U8761020	39.1	39.9	37.0	40.4
U8761026	39.0	38.7	37.2	41.1
U8761042	39.8	40.5	38.4	40.5
U8765073	40.8	41.3	37.5	43.6
HOBBIT 87 (dt)	38.0	36.7	37.7	39.5
C1773	39.0	39.1	38.2	39.7
C1774	40.3	40.1	40.3	40.6
C1775	41.7	40.4	41.4	43.3
C1776	40.4	40.1	39.4	41.8
C1777	40.5	40.0	40.5	41.1
C1782	39.2	38.2	38.1	41.2
C1784	38.9	38.8	36.8	41.0
HC85-164	37.5	36.4	37.8	38.2
HC85-604	38.5	37.9	38.0	39.5
HC85-606	38.6	37.8	38.0	39.9
HC85-607	38.4	37.4	38.4	39.4
HC85-616	37.6	37.3	36.4	39.2
HC85-618	38.5	36.9	38.1	40.4
HC85-685	39.5	38.9	39.9	39.6
HC85-690	40.0	39.2	40.1	40.6
HC85-1014	40.2	39.3	39.9	41.3
HC85-2211	39.3	38.7	38.9	40.2
HC84-2612	37.2	36.6	37.1	38.0
HC85-6611	39.4	38.9	38.8	40.4
HC85-6716	39.1	37.8	38.8	40.6
MD87-I12D	39.3	38.8	39.7	39.3
U8662002	37.8	37.4	36.1	39.8
U8662005	39.1	38.1	38.5	40.6
U8662062	42.9	41.7	42.6	44.5

UNIFORM PRELIMINARY TEST IIIB, 1989

OIL (%)

Strain	Mean 3 Tests	Winterset IA	Lafayette IN	Hoytville OH
BURLISON (II)	19.1	19.3	20.0	17.9
FLYER (IV)	19.9	20.5	20.5	18.7
RESNIK (III)	20.1	20.6	21.5	18.3
C1759	19.3	19.8	20.6	17.6
C1760	19.9	21.1	21.3	17.2
C1762	19.6	19.7	20.9	18.2
C1769	20.0	19.6	21.3	19.0
U8669091	20.5	20.9	21.7	18.9
U8674012	19.6	19.1	21.3	18.3
U8761020	21.2	21.6	22.4	19.5
U8761026	19.6	20.9	20.2	17.7
U8761042	20.4	21.2	21.0	19.1
U8765073	19.7	19.9	21.3	17.8
HOBBIT 87 (dt)	21.0	21.7	21.3	20.0
C1773	20.2	20.6	21.5	18.5
C1774	19.8	20.4	20.9	18.2
C1775	19.5	21.2	20.0	17.4
C1776	19.6	20.8	20.1	17.9
C1777	19.3	19.7	20.3	17.9
C1782	18.5	19.0	20.4	16.2
C1784	19.8	20.2	21.3	17.8
HC85-164	20.6	21.4	21.1	19.2
HC85-604	20.8	21.6	21.3	19.4
HC85-606	20.6	21.6	21.3	18.9
HC85-607	20.6	21.0	21.3	19.6
HC85-616	20.2	21.1	20.5	19.0
HC85-618	20.9	21.2	22.2	19.4
HC85-685	19.2	21.0	19.2	17.5
HC85-690	19.5	20.3	19.8	18.5
HC85-1014	20.3	20.9	20.7	19.2
HC85-2211	19.6	20.1	20.4	18.4
HC84-2612	20.7	21.7	21.0	19.4
HC85-6611	19.9	20.2	20.4	19.2
HC85-6716	20.0	20.5	20.4	19.2
MD87-I12D	19.7	20.0	20.3	18.9
U8662002	21.3	22.0	21.6	20.2
U8662005	20.5	21.0	21.6	19.0
U8662062	19.3	20.2	19.5	18.2

UNIFORM TEST IV, 1989

Strain	Parentage	Previous* Testing	Generation Composited	Unique Traits
Flyer (E)	Asgrow A3127 (4) a Williams 82	2	BC3 F2	Rps1-k
Pennyrile (L)	Williams x Essex	1	F5	
Pyramid (SCN)	Franklin x J74-5	1	F4	SCN 3,4
Ripley (dt)	Hodgson x V68-1034	7	F5	
Spencer (IV)	A75-305022 x Century	4	F5	
C1738	A80-344003 x Century 84	PTIVA	F6	Rps1-k
C1742	A80-344003 x Century 84	PTIVA	F6	Rps1-k
C1747	A80-344003 x Williams 82	PTIIIB	F6	Rps1-k
HC84-4850	Sprite x Williams 82	PTIVB	F5	Dt1
HC84-4851	Sprite x Williams 82	PTIIIB	F5	Dt1
HC85-6723	HC78-634RE x HC78-676	PTIVB	F5	dt1
K1145	Essex x Cumberland	1	F5	
K1148	Essex x Cumberland	1	F5	
K82-1-48	Asgrow A4268 x Asgrow A3127	PTIVA	F5	
K82-1-138	Asgrow A4268 x Asgrow A3127	PTIVA	F5	
L83-3804	L78-8694 x L78L-449	1	F6	
LN82-2366[1]	Sprite x L75-3632	3	F5	
LN84-452	A78-227015 x Asgrow A3127	1	F5	
LN84-978	A78-227015 x Asgrow A3127	PTIVA	F5	
LN84-1304	A78-227015 x Asgrow A3127	PTIVA	F5	
LN84-15496	LN80-9447 x Asgrow A3127	PTIVA	F5	rxp
LN85-3036	A8 x LN80-7532	PTIIIA	F5	Rps1, BSR
LN85-3402	A8 x LN80-10398	PTIIIA	F5	Rps1
LS83-5616	Forrest x Union	PTIVB	F6	SCN 3
Md85-5376	Douglas x N77-179	PTIVB	F5	
Md85-5443	Essex x Harper	PTIVB	F5	
S83-1004	Cumberland x Forrest	2	F5	SCN 3
S85-1084	(Williams x PI 88.788) x (Union x Douglas)	1	F6	SCN 3,4
S85-1101	Fayette x Douglas	PTIVB	F5	SCN 4

* Number of years in test or name of 1988 test.
[1]Hamilton

UNIFORM TEST IV, 1989

DESCRIPTIVE DATA

Strain	Descriptive Code	Chlorosis Score	Shattering Score	
		Lamber-ton	Manhattan	Lubbock
FLYER (E)	PTTSBlI	3.0	1	2.5
PENNYRILE (L)	WTTSBlI	2.5	1	3.0
PYRAMID (SCN)	PGTSIbI	4.0	1	3.8
RIPLEY (dt)	PGTSBfD	3.0	1	2.7
SPENCER (IV)	WTBSBrI	2.0	2	2.7
C1738	WTBSBrI	2.0	1	3.0
C1742	WTBSBlI	2.0	1	4.0
C1747	WTTSBlI	3.0	1	3.0
HC84-4850	WTTSBlI	3.5	1	3.0
HC84-4851	WTTSBlI	3.0	1	3.0
HC85-6723	WTTSBlD	3.0	1	2.7
K1145	PGTDIbI	3.5	1	2.5
K1148	PGBDIbI	3.5	1	3.7
K81-1-48	PTTDBlI	3.5	1	2.5
K82-1-138	P+WTTDBlI	5.0	1	2.0
L83-3804	PTTSBlD	3.0	1	2.5
LN82-2366	WGTSBfI	5.0	1	3.0
LN84-452	WGTDBfI	3.0	1	2.0
LN84-978	WGTDBfI	4.0	1	3.0
LN84-1304	PGBDIbI	4.0	1	2.5
LN84-15496	WTBDBlI	4.0	1	3.5
LN85-3036	WTBSBlI	4.0	1	3.5
LN85-3402	WTBSBrI	3.5	1	3.3
LS83-5616	WTTSBlI	4.5	1	3.5
MD85-5376	WTTSBlI	4.0	1	2.5
MD85-5443	PTTDBrI	4.0	2	3.3
S83-1004	WGTSBfI	5.0	2	4.0
S85-1084	WTTSBlI	3.0	1	2.5
S85-1101	WTBSBlI	3.5	1	3.5

UNIFORM TEST IV, 1988

DISEASE DATA

Strain	Emerg. Score Ames	PS Orange	PR Urbana Race 1	PS Lafayette a %	PSB Lafayette n %	SMV Lafayette a Score
FLYER (E)	1.0	2.0	R	8	10	4E
PENNYRILE (L)	2.0	0.3	S	0	14	2M
PYRAMID (SCN)	3.0	0.0	S	2	24	5M
RIPLEY (dt)	2.0	0.0	R	0	6	3M
SPENCER (IV)	4.0	0.7	S	8	32	5E
C1738	5.0	1.0	R	2	8	4E
C1742	2.0	1.3	R	4	24	2M
C1747	5.0	0.0	R	4	18	3E
HC84-4850	2.0	1.3	R	0	4	3M
HC84-4851	3.0	2.3	M	0	12	1
HC85-6723	2.0	2.3	R	6	6	5E
K1145	1.0	1.0	S	2	4	2M
K1148	1.0	0.0	S	2	24	1
K81-1-48	1.0	0.3	S	6	10	2M
K82-1-138	1.0	0.3	S	0	0	2M
L83-3804	1.0	0.0	S	0	12	5E
LN82-2366	2.0	6.0	S	4	14	1
LN84-452	2.0	2.0	S	2	10	1
LN84-978	1.0	5.0	S	0	24	3M
LN84-1304	1.0	0.0	R	4	2	2M
LN84-15496	3.0	0.3	S	0	0	3M
LN85-3036	2.0	2.7	R	6	2	4E
LN85-3402	4.0	0.3	R	4	10	3E
LS83-5616	3.0	0.3	S	4	8	1
MD85-5376	1.0	2.0	R	22	4	3E
MD85-5443	1.0	0.3	S	26	0	3E
S83-1004	3.0	0.0	S	4	0	3M
S85-1084	1.0	0.3	R	12	8	2M
S85-1101	1.0	0.0	R	26	0	1

UNIFORM TEST IV, 1989

REGIONAL SUMMARY

Strain	Yield	Rank	Maturity	Lodging	Plant Height	Seed Quality	Seed Size	Composition Protein	Composition Oil
No. of Tests	18	18	17	19	19	18	18	4	4
	bu/a	No.	Date	Score	In.	Score	g/100	%	%
FLYER (E)	50.7	3	-4.2	1.5	32	1.8	14.9	41.7	20.6
PENNYRILE (L)	46.9	25	7.2	1.7	41	2.1	17.0	42.1	20.4
PYRAMID (SCN)	41.9	29	3.3	2.3	40	2.2	14.9	40.3	20.6
RIPLEY (dt)	48.4	14	-0.8	1.2	22	1.5	14.3	39.2	20.7
SPENCER (IV)	49.0	9	09/30*	1.6	34	2.6	18.3	41.5	21.0
C1738	47.2	23	1.5	1.8	34	2.4	16.6	42.4	19.9
C1742	48.5	10	-1.1	1.9	32	2.0	15.6	41.2	20.3
C1747	49.8	6	-3.3	1.4	29	2.5	17.8	41.1	20.9
HC84-4850	48.5	10	-2.2	2.3	36	2.1	17.0	42.0	21.2
HC84-4851	48.3	15	-2.1	2.1	37	2.2	17.7	41.7	21.3
HC85-6723	46.2	27	-2.2	1.3	21	2.1	18.0	42.0	20.3
K1145	49.2	8	2.8	1.6	32	2.1	15.8	42.1	20.0
K1148	49.7	7	1.8	2.2	37	2.3	14.7	42.1	20.2
K81-1-48	50.0	5	1.8	2.0	34	1.6	13.6	40.3	20.3
K82-1-138	47.2	23	0.7	2.0	35	1.8	14.6	42.0	20.0
L83-3804	50.8	2	6.6	2.4	35	2.0	16.9	40.5	20.8
LN82-2366	50.1	4	-2.5	1.6	31	2.3	17.6	40.5	21.3
LN84-452	47.7	19	-3.1	1.7	29	2.1	15.8	40.3	20.6
LN84-978	47.8	18	-3.1	1.5	31	2.6	15.9	41.4	19.4
LN84-1304	48.0	16	-2.4	1.6	33	2.3	15.3	41.3	20.4
LN84-15496	47.3	22	-3.2	1.3	28	2.2	14.9	40.8	20.5
LN85-3036	47.6	21	-2.6	2.0	33	2.9	17.0	41.2	20.7
LN85-3402	46.5	26	-0.8	1.7	32	2.6	17.2	40.4	21.1
LS83-5616	47.7	19	-0.2	2.0	39	1.6	13.4	39.7	20.2
MD85-5376	48.5	10	2.3	2.0	37	2.5	17.5	41.6	20.1
MD85-5443	52.6	1	-2.6	1.7	32	2.0	17.2	42.4	20.1
S83-1004	48.0	16	4.0	2.1	39	1.6	13.5	41.2	19.5
S85-1084	48.5	10	2.9	2.2	39	2.2	17.7	41.9	20.5
S85-1101	45.6	28	4.9	2.3	40	2.6	20.2	42.4	20.3

*132.6 Days after planting

UNIFORM TEST IV, 1989

1988-1989 2-YEAR MEAN

No. of Tests Strain	Yield 37 bu/a	Rank 37 No.	Maturity 35 Date	Lodging 38 Score	Plant Height 37 In.	Seed Quality 35 Score	Seed Size 34 g/100	Composition Protein 9 %	 Oil 9 %
Flyer (E)	47.1	3	-3.9	1.4	34	1.6	14.4	41.3	21.1
Pennyrile (L)	44.3	11	7.4	1.6	42	2.2	16.8	42.0	20.5
Pyramid (SCN)	40.6	12	4.2	2.1	42	2.0	15.0	39.8	20.6
Ripley (dt)	45.8	7	-1.6	1.2	24	1.5	13.8	39.6	21.2
Spencer (IV)	46.2	6	09/29*	1.4	36	2.4	17.5	40.8	21.3
K1145	46.3	5	3.0	1.4	34	2.2	15.8	42.2	20.2
K1148	46.8	4	2.3	2.0	38	2.2	14.8	41.8	20.6
L83-3804	47.3	1	6.0	2.4	36	1.9	16.6	40.6	20.8
LN82-2366[1]	47.3	1	-3.1	1.6	32	2.1	16.9	40.6	21.6
LN84-452	45.7	8	-3.2	1.6	32	2.0	15.6	40.1	21.0
S83-1004	45.2	9	4.2	1.9	40	1.6	13.2	41.0	20.2
S85-1084	45.0	10	3.2	1.9	40	2.2	17.3	41.8	20.7

*131.8 Days after planting
[1]Hamilton

1987-1989 3-YEAR MEAN

No. of Tests Strain	Yield 56 bu/a	Rank 56 No.	Maturity 53 Date	Lodging 57 Score	Plant Height 56 In.	Seed Quality 53 Score	Seed Size 51 g/100	Composition Protein 14 %	 Oil 14 %
Flyer (E)	46.4	1	-3.7	1.4	34	1.7	14.0	41.5	20.9
Ripley (dt)	44.7	4	-2.3	1.2	23	1.6	13.4	39.8	21.2
Spencer (IV)	45.1	3	09/27*	1.5	36	2.5	16.9	40.4	21.5
LN82-2366[1]	46.4	1	-3.5	1.7	32	2.0	16.5	40.6	21.6
S83-1004	44.5	5	3.5	1.8	40	1.7	12.9	40.9	20.2

*130.7 Days after planting
[1]Hamilton

UNIFORM TEST IV, 1989

YIELD (bu/a)

Strain	Mean 18 Tests	George-town DE	Middle-town DE	Belle-ville IL	Carbon-dale IL	Ridg-way IL	Urbana IL	Lafay-ette IN
FLYER (E)	50.7			33.2	33.2	39.8	65.1	54.7
PENNYRILE (L)	46.9			35.4	29.5	43.2	46.0	47.3
PYRAMID (SCN)	41.9			46.8	36.5	47.9	39.9	35.3
RIPLEY (dt)	48.4			31.4	30.2	45.5	65.0	47.9
SPENCER (IV)	49.0			47.3	32.6	31.5	58.8	49.7
C1738	47.2			41.1	33.3	40.6	50.3	44.9
C1742	48.5			39.1	28.6	40.2	59.7	49.4
C1747	49.8			40.2	31.6	40.6	64.1	50.9
HC84-4850	48.5			46.2	26.1	39.1	58.6	52.1
HC84-4851	48.3			45.5	27.9	41.8	55.8	45.6
HC85-6723	46.2			39.2	26.1	33.5	62.4	45.6
K1145	49.2			40.6	26.0	50.9	55.4	46.7
K1148	49.7			40.9	32.0	43.7	57.7	49.0
K81-1-48	50.0			45.3	38.4	45.1	50.1	54.2
K82-1-138	47.2			39.2	26.6	48.2	48.9	50.7
L83-3804	50.8			47.2	44.5	47.9	45.6	49.0
LN82-2366	50.1			42.7	28.8	34.5	65.7	52.3
LN84-452	47.7			36.7	19.6	43.1	58.1	48.3
LN84-978	47.8			33.6	25.5	42.0	61.5	47.8
LN84-1304	48.0			35.9	27.7	38.2	58.6	43.5
LN84-15496	47.3			29.3	19.5	43.2	64.2	44.8
LN85-3036	47.6			42.7	34.4	40.1	64.4	50.1
LN85-3402	46.5			30.4	21.2	41.5	60.8	48.9
LS83-5616	47.7			46.1	38.1	55.2	47.4	46.8
MD85-5376	48.5			42.3	28.0	50.3	56.0	44.2
MD85-5443	52.6			49.6	31.4	32.9	71.2	53.3
S83-1004	48.0			44.3	36.6	57.4	47.5	44.2
S85-1084	48.5			43.8	38.5	56.3	50.3	46.2
S85-1101	45.6			45.6	29.0	47.4	46.3	47.5
C.V. (%)				15.0	26.4	13.4	7.6	7.0
L.S.D. (5%)				10.0	13.1	11.3	6.5	5.5
Row Sp. (In.)				30	30	30	30	24
Rows/Plot				4	4	4	4	4
Reps				3	3	2	3	3

UNIFORM TEST IV, 1989

YIELD (bu/a)

Strain	Vince-nnes* IN	Manhat-tan KS	Powhat-tan KS	Topeka KS	Lexing-ton KY	Queens-town MD	Colum-bia MO	Portageville Clay MO	Portageville Loam MO
FLYER (E)	34.3	50.6	38.0	59.0	62.8	53.6	50.4		39.0
PENNYRILE (L)	45.2	41.1	39.5	45.2	60.8	52.8	45.4		47.3
PYRAMID (SCN)	59.8	36.7	33.1	43.3	43.1	42.8	41.1		48.1
RIPLEY (dt)	38.8	50.4	33.3	54.5	61.2	49.3	45.5		41.8
SPENCER (IV)	51.8	47.2	29.6	52.6	62.3	52.3	54.9		43.0
C1738	51.1	39.3	34.7	54.1	59.6	48.7	47.7		42.5
C1742	44.8	47.9	38.6	57.3	59.7	44.2	52.3		43.9
C1747	55.2	45.9	29.3	53.3	60.2	48.9	51.2		45.9
HC84-4850	51.8	48.2	36.3	58.4	56.0	49.6	48.1		42.8
HC84-4851	48.2	49.2	35.7	50.8	56.2	47.4	46.9		44.0
HC85-6723	14.5	40.4	36.1	46.0	53.5	45.2	44.5		34.4
K1145	46.3	45.8	31.6	55.6	63.3	50.7	52.2		50.8
K1148	47.0	42.9	38.8	58.1	57.9	46.4	50.5		46.7
K81-1-48	56.8	48.9	39.9	54.4	59.6	44.1	50.5		49.4
K82-1-138	40.0	46.1	35.5	54.8	61.9	45.8	47.1		45.7
L83-3804	63.3	49.0	36.0	57.7	54.6	52.4	46.9		46.4
LN82-2366	49.2	55.0	34.6	61.8	59.6	48.8	49.1		42.7
LN84-452	18.9	55.1	30.7	54.7	54.1	44.7	45.8		49.7
LN84-978	42.4	46.2	33.6	55.7	57.7	45.8	50.6		42.2
LN84-1304	20.1	49.7	35.3	56.4	59.7	47.9	46.9		45.9
LN84-15496	39.3	42.8	33.5	54.7	62.3	49.0	46.4		44.3
LN85-3036	50.7	44.2	36.2	51.8	56.7	47.8	46.4		42.5
LN85-3402	40.5	46.8	31.1	55.6	57.5	40.7	43.6		45.5
LS83-5616	59.6	45.8	38.8	46.2	56.1	47.9	48.1		50.4
MD85-5376	40.7	46.7	31.7	56.9	56.2	50.6	46.1		40.3
MD85-5443	50.0	44.6	32.2	64.1	67.6	51.0	51.2		47.1
S83-1004	57.9	45.6	38.0	50.2	54.2	43.6	50.9		49.9
S85-1084	77.6	44.3	36.5	49.8	61.2	46.3	44.3		51.4
S85-1101	54.2	41.5	30.9	42.7	57.1	41.7	41.7		56.3
C.V. (%)	26.6	11.5	7.0	9.0	7.2	9.1	8.2		10.7
L.S.D. (5%)	20.3	8.8	4.0	8.0	5.8	7.1	6.4		8.0
Row Sp. (In.)	15	30	30	30	30	30	30		30
Rows/Plot	5	4	4	4	4	4	4		4
Reps	3	3	3	3	3	3	3		3

*Data Not Included In Mean

UNIFORM TEST IV, 1989

YIELD (bu/a)

Strain	Adel-phia NJ	Mt. Orab OH	South Charleston OH	Landis-ville PA	Lubbock TX	Orange VA
FLYER (E)	63.4	44.1	76.9	59.2	37.0	52.3
PENNYRILE (L)	65.4	44.8	55.5	56.9	41.1	46.2
PYRAMID (SCN)	53.3	38.3	43.6	51.2	35.4	38.5
RIPLEY (dt)	63.8	37.0	77.7	58.9	27.6	49.5
SPENCER (IV)	63.2	37.8	61.0	59.0	48.0	50.9
C1738	55.1	44.2	64.2	57.7	42.8	48.6
C1742	51.8	42.0	64.3	57.9	44.9	51.7
C1747	58.8	43.2	75.5	56.8	46.4	53.9
HC84-4850	56.6	42.2	72.8	50.6	38.7	51.1
HC84-4851	63.2	46.5	75.5	56.5	38.5	42.2
HC85-6723	66.0	49.1	72.3	65.3	18.7	53.8
K1145	61.7	35.2	62.5	60.6	47.0	49.1
K1148	61.2	42.2	62.3	65.8	45.7	52.7
K81-1-48	66.6	44.8	63.2	60.6	38.7	47.0
K82-1-138	61.7	36.5	63.4	54.9	38.3	44.7
L83-3804	63.4	48.1	63.5	58.6	55.2	47.8
LN82-2366	68.4	36.3	81.4	53.3	36.0	50.8
LN84-452	64.9	34.3	69.4	56.8	41.8	50.9
LN84-978	57.5	32.8	73.6	55.3	46.1	52.2
LN84-1304	59.4	35.8	71.3	61.1	42.3	47.9
LN84-15496	65.5	33.5	73.1	57.3	33.9	54.5
LN85-3036	57.4	33.9	64.0	54.0	44.6	44.9
LN85-3402	59.4	38.2	71.9	53.2	43.6	47.9
LS83-5616	60.4	37.6	59.3	54.7	38.0	42.3
MD85-5376	64.2	48.1	71.6	53.4	43.6	43.2
MD85-5443	65.4	47.9	76.8	62.9	42.8	54.8
S83-1004	59.2	39.0	63.8	54.6	36.6	49.0
S85-1084	53.4	42.0	67.9	57.0	44.5	38.6
S85-1101	41.4	46.6	62.6	55.6	41.4	44.6
C.V. (%)	15.9	14.4	14.1	8.7	10.5	8.4
L.S.D. (5%)	12.9	9.6	15.3	NS	7.0	6.7
Row Sp. (In.)	30	30	7	24	40	30
Rows/Plot	4	4	8	4	4	3
Reps	3	3	3	3	3	3

UNIFORM TEST IV, 1989

YIELD RANK

Strain	Yield Rank	George-town DE	Middle-town DE	Belle-ville IL	Carbon-dale IL	Ridg-way IL	Urbana IL	Lafay-ette IN
FLYER (E)	3			26	9	23	3	1
PENNYRILE (L)	25			24	15	13	27	18
PYRAMID (SCN)	29			4	6	7	29	29
RIPLEY (dt)	14			27	14	10	4	15
SPENCER (IV)	9			2	10	29	12	9
C1738	23			15	8	19	20	24
C1742	10			21	18	21	11	10
C1747	6			18	12	19	7	6
HC84-4850	10			5	23	24	13	5
HC84-4851	15			8	20	17	18	22
HC85-6723	27			19	23	27	8	22
K1145	8			17	25	4	19	20
K1148	7			16	11	12	16	11
K81-1-48	5			9	3	11	22	2
K82-1-138	23			19	22	6	23	7
L83-3804	2			3	1	7	28	11
LN82-2366	4			12	17	26	2	4
LN84-452	19			22	28	15	15	14
LN84-978	18			25	26	16	9	16
LN84-1304	16			23	21	25	13	28
LN84-15496	22			29	29	13	6	25
LN85-3036	21			12	7	22	5	8
LN85-3402	26			28	27	18	10	13
LS83-5616	19			6	4	3	25	19
MD85-5376	10			14	19	5	17	26
MD85-5443	1			1	13	28	1	3
S83-1004	16			10	5	1	24	26
S85-1084	10			11	2	2	20	21
S85-1101	28			7	16	9	26	17

UNIFORM TEST IV, 1989

YIELD RANK

Strain	Vincennes IN	Manhattan KS	Powhattan KS	Topeka KS	Lexington KY	Queenstown MD	Columbia MO	Portageville Clay MO	Portageville Loam MO
FLYER (E)	26	3	6	3	3	1	8		28
PENNYRILE (L)	18	26	2	27	9	2	18		9
PYRAMID (SCN)	3	29	21	28	29	27	23		8
RIPLEY (dt)	25	4	20	16	7	9	17		26
SPENCER (IV)	9	11	28	20	4	4	1		20
C1738	11	28	16	18	13	13	11		23
C1742	19	10	5	7	11	24	2		19
C1747	7	16	29	19	10	11	4		13
HC84-4850	9	9	9	4	24	8	10		21
HC84-4851	15	6	13	22	21	17	13		18
HC85-6723	29	27	11	26	28	22	19		29
K1145	17	17	24	11	2	6	3		3
K1148	16	23	3	5	16	18	7		11
K81-1-48	6	8	1	17	14	25	7		7
K82-1-138	23	15	14	13	6	20	12		15
L83-3804	2	7	12	6	25	3	13		12
LN82-2366	14	2	17	2	14	12	9		22
LN84-452	28	1	27	14	27	23	16		6
LN84-978	20	14	18	10	17	20	6		25
LN84-1304	27	5	15	9	11	14	13		13
LN84-15496	24	24	19	14	4	10	14		17
LN85-3036	12	22	10	21	20	16	14		23
LN85-3402	22	12	25	11	18	29	21		16
LS83-5616	4	17	3	25	23	14	10		4
MD85-5376	21	13	23	8	21	7	15		27
MD85-5443	13	20	22	1	1	5	4		10
S83-1004	5	19	6	23	26	26	5		5
S85-1084	1	21	8	24	7	19	20		2
S85-1101	8	25	26	29	19	28	22		1

UNIFORM TEST IV, 1989

YIELD RANK

Strain	Adel-phia NJ	Mt. Orab OH	South Charleston OH	Landis-ville PA	Lubbock TX	Orange VA
FLYER (E)	10	10	3	7	23	6
PENNYRILE (L)	5	7	28	15	17	21
PYRAMID (SCN)	27	17	29	28	26	29
RIPLEY (dt)	9	21	2	9	28	13
SPENCER (IV)	12	19	26	8	2	10
C1738	25	9	17	12	13	16
C1742	28	14	16	11	7	8
C1747	21	11	5	16	4	3
HC84-4850	24	12	9	29	19	9
HC84-4851	12	6	5	18	20	27
HC85-6723	3	1	10	2	29	4
K1145	14	25	24	5	3	14
K1148	16	12	25	1	6	5
K81-1-48	2	7	22	5	18	20
K82-1-138	14	22	21	21	21	23
L83-3804	10	2	20	10	1	19
LN82-2366	1	23	1	26	25	12
LN84-452	7	26	14	16	15	10
LN84-978	22	29	7	20	5	7
LN84-1304	18	24	13	4	14	17
LN84-15496	4	28	8	13	27	2
LN85-3036	23	27	18	24	8	22
LN85-3402	18	18	11	27	11	17
LS83-5616	17	20	27	22	22	26
MD85-5376	8	2	12	25	10	25
MD85-5443	5	4	4	3	12	1
S83-1004	20	16	19	23	24	15
S85-1084	26	14	15	14	9	28
S85-1101	29	5	23	19	16	24

UNIFORM TEST IV, 1989

MATURITY (date)

Strain	Mean 17 Tests	George-town DE	Middle-town DE	Belle-ville IL	Carbon-dale IL	Ridg-way IL	Urbana IL	Lafay-ette IN
FLYER (E)	-4.2			-8	-4	3	-4	-7
PENNYRILE (L)	7.2			5	2	19	8	3
PYRAMID (SCN)	3.3			-1	-2	7	2	-1
RIPLEY (dt)	-0.8			-1	-1	2	-4	-3
SPENCER (IV)	09/30			10/03	10/06	09/10	10/07	10/10
C1738	1.5			-1	-1	9	4	2
C1742	-1.1			-3	-4	1	1	-3
C1747	-3.3			-6	-4	1	-1	-4
HC84-4850	-2.2			-7	-1	3	-2	-5
HC84-4851	-2.1			-7	-1	0	-2	-5
HC85-6723	-2.2			-5	-3	-3	-3	-1
K1145	2.8			1	-1	5	2	2
K1148	1.8			0	-1	9	3	2
K81-1-48	1.8			-2	-4	9	2	2
K82-1-138	0.7			-1	-2	8	2	-2
L83-3804	6.6			5	5	12	7	4
LN82-2366	-2.5			-9	-2	-9	7	-3
LN84-452	-3.1			-12	-5	-2	0	-2
LN84-978	-3.1			-9	-4	-1	-1	-4
LN84-1304	-2.4			-9	-4	2	0	-1
LN84-15496	-3.2			-5	-6	2	-2	-4
LN85-3036	-2.6			-7	-5	1	-2	-2
LN85-3402	-0.8			-1	-3	3	-1	0
LS83-5616	-0.2			-5	-4	3	0	-5
MD85-5376	2.3			1	0	9	3	0
MD85-5443	-2.6			-7	-2	1	0	-6
S83-1004	4.0			3	-1	8	2	-1
S85-1084	2.9			3	-1	5	2	2
S85-1101	4.9			4	-1	9	6	2
Date Planted	05/21			05/17	05/12	05/01	05/15	05/16
Days to Mature	132.6			139	147	132	145	147

UNIFORM TEST IV, 1989

MATURITY (date)

Strain	Vince-nnes IN	Manhat-tan KS	Powhat-tan KS	Topeka KS	Lexing-ton KY	Queens-town MD	Colum-bia MO	Portageville Clay MO	Portageville Loam MO
FLYER (E)	-8	-1			-6	-7	-5		0
PENNYRILE (L)	5	7			9	4	6		15
PYRAMID (SCN)	3	3			6	2	4		17
RIPLEY (dt)	-4	-1			-2	-8	1		1
SPENCER (IV)	10/02	10/01			09/21	10/12	09/29		09/11
C1738	1	1			1	-4	2		0
C1742	-4	-1			0	-6	0		-3
C1747	-5	-1			-5	-8	-5		-2
HC84-4850	-5	-1			-4	-6	-2		1
HC84-4851	-5	-1			-2	-6	-3		4
HC85-6723	-9	2			-6	-6	-1		-1
K1145	-2	4			9	-2	2		10
K1148	-4	0			5	-5	3		5
K81-1-48	2	3			2	-6	0		3
K82-1-138	-1	2			0	-4	-1		2
L83-3804	3	5			9	3	6		9
LN82-2366	-8	-1			-7	-6	-2		10
LN84-452	-8	-1			-6	-4	-6		-1
LN84-978	-6	-1			-3	-6	-5		-3
LN84-1304	-10	-1			3	-4	-5		-3
LN84-15496	-5	-1			-2	-6	-5		0
LN85-3036	-5	-1			-5	-5	-2		0
LN85-3402	-4	-1			0	-6	0		0
LS83-5616	2	-1			0	-1	-1		2
MD85-5376	-1	2			0	0	1		12
MD85-5443	-6	-1			-1	-8	-4		9
S83-1004	2	3			7	0	6		11
S85-1084	2	3			6	0	2		6
S85-1101	3	6			10	0	5		13
Date Planted	05/18	05/25			05/19	06/12	05/15		05/16
Days to Mature	137	129			125	122	137		118

UNIFORM TEST IV, 1989

MATURITY (date)

Strain	Adel-phia NJ	Mt. Orab OH	South Charleston OH	Landis-ville PA	Lubbock TX	Orange VA
FLYER (E)	-4	-3	-2	-7	-3	-5
PENNYRILE (L)	3	10	9	7	7	4
PYRAMID (SCN)	1	5	1	3	3	3
RIPLEY (dt)	-3	2	2	-1	11	-5
SPENCER (IV)	10/15	09/29	10/06	10/06	09/22	10/01
C1738	1	4	2	3	0	1
C1742	-1	3	1	0	-1	1
C1747	-4	0	1	-7	-3	-3
HC84-4850	-2	2	0	-3	-4	-1
HC84-4851	-2	0	-1	-1	-4	0
HC85-6723	-2	2	-1	-3	3	0
K1145	1	4	3	2	5	3
K1148	1	1	1	0	7	4
K81-1-48	1	3	3	3	7	2
K82-1-138	3	3	2	-1	1	1
L83-3804	5	10	9	7	9	5
LN82-2366	-2	-3	-2	-4	0	-1
LN84-452	-2	-1	-1	-3	1	0
LN84-978	-3	-2	-1	-4	-1	1
LN84-1304	-3	-2	-1	-1	-1	-1
LN84-15496	-3	-4	-1	-6	-2	-4
LN85-3036	-3	0	-1	-5	-1	-2
LN85-3402	0	1	0	-1	0	0
LS83-5616	1	2	0	1	0	2
MD85-5376	-1	4	2	1	2	4
MD85-5443	-2	-4	-4	-4	-3	-2
S83-1004	1	6	4	9	2	6
S85-1084	1	7	4	3	3	1
S85-1101	-2	6	9	8	0	5
Date Planted	06/01	05/31	05/19	05/30	05/17	05/31
Days to Mature	136	121	140	129	128	123

UNIFORM TEST IV, 1989

LODGING (score)

Strain	Mean 19 Tests	George-town DE	Middle-town DE	Belle-ville IL	Carbon-dale IL	Ridg-way IL	Urbana IL	Lafay-ette IN
FLYER (E)	1.5			1.0	1.0	2.0	3.0	1.0
PENNYRILE (L)	1.7			1.0	1.0	2.0	2.0	1.2
PYRAMID (SCN)	2.3			1.0	1.0	2.5	2.3	2.5
RIPLEY (dt)	1.2			1.0	1.0	1.0	1.7	1.3
SPENCER (IV)	1.6			1.0	1.0	1.5	1.7	1.0
C1738	1.8			1.0	1.0	1.7	2.3	1.0
C1742	1.9			1.0	1.0	1.7	2.0	1.0
C1747	1.4			1.0	1.0	2.0	1.7	1.0
HC84-4850	2.3			1.0	1.0	2.5	3.3	1.7
HC84-4851	2.1			1.0	1.0	2.2	2.3	1.8
HC85-6723	1.3			1.0	1.0	1.2	1.0	1.0
K1145	1.6			1.0	1.0	2.0	2.3	1.0
K1148	2.2			1.0	1.0	2.5	3.7	1.5
K81-1-48	2.0			1.0	1.0	2.2	2.7	1.0
K82-1-138	2.0			1.0	1.0	2.5	2.7	1.2
L83-3804	2.4			1.0	1.0	2.0	1.7	3.5
LN82-2366	1.6			1.0	1.0	2.0	1.7	1.5
LN84-452	1.7			1.0	1.0	2.0	2.0	1.0
LN84-978	1.5			1.0	1.0	2.0	2.0	1.0
LN84-1304	1.6			1.0	1.0	1.7	1.7	1.0
LN84-15496	1.3			1.0	1.0	1.5	1.0	1.0
LN85-3036	2.0			1.0	1.0	2.2	2.3	1.0
LN85-3402	1.7			1.0	1.0	2.0	1.3	1.0
LS83-5616	2.0			1.0	1.0	2.2	2.0	1.8
MD85-5376	2.0			1.0	1.0	2.0	2.0	1.2
MD85-5443	1.7			1.0	1.0	2.0	1.7	1.0
S83-1004	2.1			1.0	1.0	2.2	2.7	1.3
S85-1084	2.2			1.0	1.0	2.5	2.3	1.3
S85-1101	2.3			1.0	1.0	2.2	2.7	1.5

UNIFORM TEST IV, 1989

LODGING (score)

Strain	Vince-nnes IN	Manhat-tan KS	Powhat-tan KS	Topeka KS	Lexing-ton KY	Queens-town MD	Colum-bia MO	Portageville Clay MO	Portageville Loam MO
FLYER (E)	1.0	1.0	1.0	1.0	1.5	2.0	1.6		1.0
PENNYRILE (L)	1.0	1.0	1.0	1.7	2.3	2.5	2.0		1.0
PYRAMID (SCN)	1.3	3.0	1.0	3.3	2.3	2.8	2.8		1.5
RIPLEY (dt)	1.0	1.0	1.0	1.0	1.5	1.0	1.5		1.0
SPENCER (IV)	1.0	1.0	1.0	1.0	1.2	2.0	2.0		1.0
C1738	1.0	1.0	1.0	1.3	1.5	2.8	2.2		1.0
C1742	1.0	1.0	1.0	1.7	1.3	3.0	2.2		1.0
C1747	1.2	1.0	1.0	1.0	1.5	2.0	1.5		1.0
HC84-4850	1.5	3.0	1.0	2.3	3.2	3.2	2.7		1.0
HC84-4851	1.2	2.0	1.0	2.0	3.7	3.2	2.3		1.0
HC85-6723	1.0	1.0	1.0	1.0	1.3	1.7	1.5		1.0
K1145	1.0	2.0	1.0	1.0	1.8	2.0	1.7		1.0
K1148	1.3	2.0	1.0	1.7	3.7	3.0	2.3		1.0
K81-1-48	1.0	2.0	1.0	1.7	2.7	2.5	2.3		1.0
K82-1-138	1.0	1.0	1.0	1.7	3.3	3.0	2.0		1.0
L83-3804	1.0	1.0	3.0	1.7	2.8	3.2	3.5		1.0
LN82-2366	1.0	1.0	1.0	1.3	1.8	2.5	2.0		1.0
LN84-452	1.0	2.0	1.0	1.3	1.5	1.8	1.7		1.0
LN84-978	1.0	1.0	1.0	1.0	1.7	2.0	1.8		1.0
LN84-1304	1.0	1.0	1.0	1.3	2.2	2.2	2.2		1.0
LN84-15496	1.0	1.0	1.0	1.0	1.3	2.0	1.7		1.0
LN85-3036	1.2	3.0	1.0	2.7	2.5	2.7	2.3		1.0
LN85-3402	1.2	1.0	1.0	1.7	1.5	2.3	1.8		1.0
LS83-5616	1.2	2.0	1.0	1.7	2.3	2.8	2.5		1.5
MD85-5376	1.0	2.0	1.0	1.0	2.2	2.8	2.3		1.0
MD85-5443	1.0	1.0	1.0	1.7	3.2	2.2	2.3		1.0
S83-1004	1.0	2.0	1.0	2.3	2.8	2.5	2.5		1.0
S85-1084	1.7	2.0	1.0	2.7	2.7	3.0	2.3		1.0
S85-1101	1.2	2.0	1.0	1.7	3.2	3.2	2.7		1.0

UNIFORM TEST IV, 1989

LODGING (score)

Strain	Adel-phia NJ	Mt. Orab OH	South Charleston OH	Landis-ville PA	Lubbock TX	Orange VA
FLYER (E)	3.0	1.1	1.5	1.3	1.7	2.3
PENNYRILE (L)	3.0	1.2	2.2	2.2	1.5	3.0
PYRAMID (SCN)	3.7	1.4	2.7	2.5	1.5	4.3
RIPLEY (dt)	1.7	1.1	1.5	2.2	1.0	1.0
SPENCER (IV)	4.0	1.1	1.7	2.3	1.5	2.7
C1738	4.3	1.2	2.2	2.5	2.0	3.7
C1742	5.0	1.1	2.2	2.8	2.0	4.3
C1747	2.7	1.1	1.5	1.7	1.7	1.0
HC84-4850	4.0	1.3	2.8	3.8	1.7	3.3
HC84-4851	3.0	1.4	2.3	3.7	2.2	3.3
HC85-6723	2.7	1.2	1.0	2.7	1.0	1.3
K1145	3.7	1.0	1.3	1.7	1.7	2.0
K1148	3.7	1.2	2.5	3.2	1.5	4.7
K81-1-48	4.3	1.1	2.2	3.0	2.0	3.7
K82-1-138	4.0	1.2	2.7	2.8	1.7	3.3
L83-3804	3.0	2.1	3.2	3.5	2.2	4.3
LN82-2366	3.0	1.1	1.8	2.7	1.5	2.3
LN84-452	2.7	1.0	1.7	3.0	1.7	3.0
LN84-978	2.3	1.1	1.7	1.8	1.5	2.0
LN84-1304	2.3	1.2	2.0	3.0	1.5	2.7
LN84-15496	3.0	1.1	1.2	2.0	1.7	1.0
LN85-3036	3.7	1.2	2.5	2.8	1.5	2.7
LN85-3402	3.7	1.1	2.0	2.2	2.0	3.0
LS83-5616	3.3	1.3	2.3	2.8	1.7	3.0
MD85-5376	4.0	1.2	2.2	3.2	2.0	4.3
MD85-5443	3.3	1.2	1.7	2.7	1.5	2.0
S83-1004	4.0	1.2	2.2	3.0	1.7	4.0
S85-1084	4.3	1.5	3.7	2.8	2.5	3.0
S85-1101	3.3	1.6	3.2	3.5	2.0	5.0

UNIFORM TEST IV, 1989

PLANT HEIGHT (inches)

Strain	Mean 19 Tests	George-town DE	Middle-town DE	Belle-ville IL	Carbon-dale IL	Ridg-way IL	Urbana IL	Lafay-ette IN
FLYER (E)	32			26	26	32	42	32
PENNYRILE (L)	41			36	28	46	55	41
PYRAMID (SCN)	40			39	32	47	47	39
RIPLEY (dt)	22			18	15	22	28	27
SPENCER (IV)	34			31	24	37	44	34
C1738	34			28	24	33	47	31
C1742	32			26	22	33	46	30
C1747	29			25	24	32	40	28
HC84-4850	36			35	30	35	47	35
HC84-4851	37			37	32	40	36	38
HC85-6723	21			17	16	19	27	25
K1145	32			27	22	36	41	30
K1148	37			34	32	40	47	35
K81-1-48	34			30	30	35	43	34
K82-1-138	35			30	27	39	44	35
L83-3804	35			30	28	32	43	43
LN82-2366	31			26	23	33	40	32
LN84-452	29			25	20	33	40	29
LN84-978	31			23	23	36	41	30
LN84-1304	33			26	24	35	43	31
LN84-15496	28			23	20	30	38	28
LN85-3036	33			27	24	35	41	30
LN85-3402	32			25	24	34	44	30
LS83-5616	39			37	29	38	47	40
MD85-5376	37			33	28	34	48	36
MD85-5443	32			29	25	29	44	32
S83-1004	39			35	28	45	51	37
S85-1084	39			37	29	47	50	36
S85-1101	40			39	27	42	53	37

UNIFORM TEST IV, 1989

PLANT HEIGHT (inches)

Strain	Vince-nnes IN	Manhat-tan KS	Powhat-tan KS	Topeka KS	Lexing-ton KY	Queens-town MD	Colum-bia MO	Portageville Clay MO	Portageville Loam MO
FLYER (E)	25	36	28	40	33	30	35		27
PENNYRILE (L)	35	45	30	46	45	38	44		38
PYRAMID (SCN)	38	47	32	50	40	37	42		38
RIPLEY (dt)	16	25	23	26	24	19	26		17
SPENCER (IV)	29	40	28	40	37	33	34		34
C1738	29	35	28	42	37	32	35		32
C1742	24	34	25	40	35	30	36		31
C1747	28	32	19	33	31	29	29		25
HC84-4850	34	41	31	41	38	35	38		33
HC84-4851	35	48	33	45	40	37	41		32
HC85-6723	11	25	25	20	19	20	22		17
K1145	27	40	26	37	36	31	34		31
K1148	33	42	29	43	40	33	40		36
K81-1-48	30	41	28	40	34	32	36		32
K82-1-138	29	36	29	41	36	36	37		31
L83-3804	25	37	38	40	35	34	38		30
LN82-2366	27	37	29	37	34	28	35		27
LN84-452	22	26	23	31	30	25	31		28
LN84-978	26	35	24	36	34	29	32		29
LN84-1304	23	39	27	36	38	31	37		27
LN84-15496	25	34	19	34	33	26	31		24
LN85-3036	29	40	29	41	35	34	36		25
LN85-3402	27	37	26	40	33	34	33		27
LS83-5616	31	48	38	45	44	38	42		34
MD85-5376	31	44	32	44	41	35	41		30
MD85-5443	27	33	28	39	41	30	35		26
S83-1004	32	42	31	51	41	36	42		36
S85-1084	37	43	32	44	43	36	39		35
S85-1101	33	45	35	46	43	37	40		38

UNIFORM TEST IV, 1989

PLANT HEIGHT (inches)

Strain	Adel-phia NJ	Mt. Orab OH	South Charleston OH	Landis-ville PA	Lubbock TX	Orange VA
FLYER (E)	37	25	33	34	22	38
PENNYRILE (L)	48	34	36	46	30	50
PYRAMID (SCN)	46	32	30	41	29	48
RIPLEY (dt)	27	19	27	28	11	25
SPENCER (IV)	46	24	29	40	23	44
C1738	44	26	36	38	25	42
C1742	40	26	33	36	23	41
C1747	37	22	32	32	23	35
HC84-4850	45	28	34	38	29	39
HC84-4851	38	30	36	40	31	43
HC85-6723	29	22	21	28	10	26
K1145	40	24	27	37	28	40
K1148	43	30	32	39	32	44
K81-1-48	42	27	32	39	27	43
K82-1-138	42	27	34	37	27	43
L83-3804	41	34	32	41	26	38
LN82-2366	38	23	29	35	22	36
LN84-452	38	23	30	33	23	39
LN84-978	40	24	32	32	23	41
LN84-1304	38	25	34	40	24	44
LN84-15496	38	22	31	31	19	34
LN85-3036	40	26	29	42	24	40
LN85-3402	42	24	32	35	23	41
LS83-5616	47	32	32	48	27	48
MD85-5376	43	32	35	42	28	46
MD85-5443	39	28	31	36	24	39
S83-1004	48	29	35	47	28	46
S85-1084	46	34	35	44	26	49
S85-1101	43	34	39	52	28	54

UNIFORM TEST IV, 1989

SEED QUALITY (score)

Strain	Mean 18 Tests	George-town DE	Middle-town DE	Belle-ville IL	Carbon-dale IL	Ridg-way IL	Urbana IL	Lafay-ette IN
FLYER (E)	1.8			2.0	4.0	1.2	1.2	1.0
PENNYRILE (L)	2.1			4.0	3.0	2.5	1.2	1.0
PYRAMID (SCN)	2.2			3.0	4.0	1.8	1.2	1.0
RIPLEY (dt)	1.5			1.0	3.0	1.4	1.2	1.0
SPENCER (IV)	2.6			4.0	5.0	1.4	1.2	1.5
C1738	2.4			3.0	5.0	1.8	1.2	1.0
C1742	2.0			2.0	4.0	1.5	1.2	1.0
C1747	2.5			3.0	5.0	1.5	1.2	1.5
HC84-4850	2.1			2.0	5.0	1.2	1.2	1.0
HC84-4851	2.2			2.0	5.0	1.8	1.2	1.0
HC85-6723	2.1			3.0	4.0	1.4	1.2	1.0
K1145	2.1			3.0	5.0	2.0	1.2	1.5
K1148	2.3			3.0	5.0	1.8	1.2	1.5
K81-1-48	1.6			2.0	2.0	1.9	1.2	1.0
K82-1-138	1.8			2.0	3.0	1.5	1.2	1.0
L83-3804	2.0			2.0	4.0	1.2	1.2	1.0
LN82-2366	2.3			3.0	5.0	1.5	1.2	1.0
LN84-452	2.1			2.0	4.0	1.3	1.3	1.0
LN84-978	2.6			3.0	4.0	1.2	1.2	1.0
LN84-1304	2.3			2.0	4.0	2.0	1.2	1.0
LN84-15496	2.2			3.0	4.0	1.5	1.4	1.0
LN85-3036	2.9			3.0	4.0	2.5	1.9	1.5
LN85-3402	2.6			4.0	5.0	2.0	1.2	1.0
LS83-5616	1.6			1.0	3.0	1.2	1.2	1.0
MD85-5376	2.5			3.0	5.0	1.6	1.2	1.5
MD85-5443	2.0			2.0	4.0	1.8	1.2	1.0
S83-1004	1.6			1.0	4.0	1.4	1.2	1.0
S85-1084	2.2			3.0	4.0	1.8	1.2	1.0
S85-1101	2.6			3.0	4.0	1.9	1.2	1.0

UNIFORM TEST IV, 1989

SEED QUALITY (score)

Strain	Vince-nnes IN	Manhat-tan KS	Powhat-tan KS	Topeka KS	Lexing-ton KY	Queens-town MD	Colum-bia MO	Portageville Clay MO	Portageville Loam MO
FLYER (E)	1.5	1.0		3.0	1.0	2.0	1.7		2.0
PENNYRILE (L)	2.0	2.0		3.0	2.0	2.3	1.5		2.5
PYRAMID (SCN)	2.0	2.0		3.0	3.0	2.0	2.0		2.5
RIPLEY (dt)	1.0	1.0		2.0	2.0	2.5	1.5		1.5
SPENCER (IV)	3.5	2.0		4.0	3.0	3.0	2.0		2.5
C1738	2.0	2.0		4.0	2.0	4.0	1.8		2.5
C1742	1.5	2.0		3.0	2.0	2.7	1.7		2.0
C1747	2.0	2.0		4.0	2.0	3.5	1.7		2.5
HC84-4850	2.0	2.0		3.0	2.0	2.0	1.3		2.0
HC84-4851	2.5	2.0		3.0	3.0	2.2	1.5		2.0
HC85-6723	1.5	2.0		2.0	3.0	2.5	1.7		2.5
K1145	1.5	1.0		4.0	2.0	1.8	1.5		2.0
K1148	3.0	1.0		3.0	3.0	1.5	1.8		2.0
K81-1-48	1.5	2.0		2.0	2.0	1.7	1.5		1.5
K82-1-138	1.5	1.0		2.0	2.0	1.8	1.3		2.0
L83-3804	1.5	2.0		3.0	2.0	1.5	2.0		2.0
LN82-2366	2.0	1.0		3.0	2.0	2.2	2.0		3.5
LN84-452	2.5	2.0		2.0	2.0	2.3	2.0		2.5
LN84-978	3.0	2.0		5.0	4.0	2.8	1.8		2.0
LN84-1304	3.0	1.0		4.0	2.0	2.3	1.7		2.0
LN84-15496	2.0	2.0		4.0	2.0	1.7	1.7		2.5
LN85-3036	3.0	3.0		5.0	3.0	3.5	2.0		2.5
LN85-3402	2.5	2.0		4.0	2.0	3.7	1.8		3.0
LS83-5616	1.0	1.0		2.0	1.0	1.5	1.5		1.5
MD85-5376	3.0	2.0		3.0	2.0	2.8	1.4		3.5
MD85-5443	2.5	2.0		3.0	2.0	1.5	1.3		2.5
S83-1004	1.5	1.0		3.0	1.0	1.3	1.3		2.0
S85-1084	2.0	1.0		3.0	3.0	1.8	1.7		2.0
S85-1101	4.0	2.0		3.0	2.0	3.2	2.0		2.5

UNIFORM TEST IV, 1989

SEED QUALITY (score)

Strain	Adel-phia NJ	Mt. Orab OH	South Charleston OH	Landis-ville PA	Lubbock TX	Orange VA
FLYER (E)	2.0	2.7	1.0	2.0	1.0	1.5
PENNYRILE (L)	2.3	3.0	1.5	2.0	1.2	1.5
PYRAMID (SCN)	2.0	2.7	1.5	2.0	1.5	1.7
RIPLEY (dt)	1.3	1.3	1.0	2.0	1.5	1.3
SPENCER (IV)	2.3	4.2	2.0	2.5	2.0	1.5
C1738	2.0	3.0	2.0	2.5	2.3	1.5
C1742	2.3	2.3	2.0	2.0	1.7	1.8
C1747	3.0	3.7	2.5	2.5	2.0	1.5
HC84-4850	3.0	3.0	1.5	2.5	1.5	1.7
HC84-4851	2.3	3.2	1.0	3.0	1.7	1.5
HC85-6723	1.0	3.2	1.0	2.5	2.2	1.3
K1145	1.7	2.8	1.5	2.0	1.5	1.5
K1148	2.0	4.0	2.0	2.5	1.7	1.7
K81-1-48	1.3	1.7	1.5	2.0	1.2	1.2
K82-1-138	2.0	2.5	1.5	2.0	1.7	1.5
L83-3804	2.3	3.0	1.0	2.5	1.7	1.3
LN82-2366	3.3	3.3	1.5	2.5	2.0	1.7
LN84-452	2.7	3.0	1.0	3.0	1.2	2.0
LN84-978	3.7	4.3	1.5	3.5	1.5	2.0
LN84-1304	2.7	4.5	1.5	3.0	2.0	1.7
LN84-15496	2.0	3.2	2.0	2.5	1.0	1.5
LN85-3036	3.7	4.0	2.5	3.0	2.0	1.7
LN85-3402	2.7	3.3	2.0	2.5	2.5	1.7
LS83-5616	2.7	2.7	1.0	2.0	1.5	1.3
MD85-5376	2.3	3.7	1.5	3.5	2.0	1.5
MD85-5443	2.0	3.2	1.5	2.5	1.5	1.3
S83-1004	1.3	1.5	1.0	2.0	1.2	1.2
S85-1084	2.7	3.7	1.5	3.5	1.5	1.7
S85-1101	2.7	3.5	2.0	3.0	2.2	3.0

UNIFORM TEST IV, 1989

SEED SIZE (g/100)

Strain	Mean 18 Tests	George-town DE	Middle-town DE	Belle-ville IL	Carbon-dale IL	Ridg-way IL	Urbana IL	Lafay-ette IN
FLYER (E)	14.9			13.3	13.0	11.3	14.7	16.4
PENNYRILE (L)	17.0			15.3	15.7	14.9	14.4	19.1
PYRAMID (SCN)	14.9			14.9	14.7	12.0	12.5	15.5
RIPLEY (dt)	14.3			14.7	14.0	12.1	13.0	15.3
SPENCER (IV)	18.3			17.6	16.8	13.0	15.3	20.8
C1738	16.6			14.7	15.4	13.2	15.0	18.9
C1742	15.6			14.8	14.1	13.1	14.4	18.2
C1747	17.8			16.3	15.6	13.5	17.2	20.5
HC84-4850	17.0			15.7	15.8	13.7	15.9	18.7
HC84-4851	17.7			15.7	16.0	14.6	16.4	19.4
HC85-6723	18.0			17.7	15.0	14.2	17.3	20.3
K1145	15.8			15.4	14.7	13.5	13.7	16.2
K1148	14.7			13.7	14.5	12.5	12.6	16.1
K81-1-48	13.6			13.1	12.0	11.5	12.1	15.8
K82-1-138	14.6			13.9	13.1	13.3	13.5	16.9
L83-3804	16.9			16.0	17.9	15.5	13.4	16.6
LN82-2366	17.6			16.8	15.2	13.5	16.2	19.6
LN84-452	15.8			14.9	14.1	12.7	14.8	18.3
LN84-978	15.9			14.5	12.7	13.2	15.0	18.0
LN84-1304	15.3			14.0	13.2	11.5	14.4	17.6
LN84-15496	14.9			14.9	14.0	12.4	13.5	16.8
LN85-3036	17.0			15.4	14.9	13.9	15.5	19.8
LN85-3402	17.2			17.3	15.4	13.5	16.1	19.6
LS83-5616	13.4			11.9	13.2	11.8	11.5	14.7
MD85-5376	17.5			17.0	16.0	14.9	14.9	19.7
MD85-5443	17.2			16.2	15.7	14.5	15.5	20.6
S83-1004	13.5			11.8	12.2	11.1	11.9	14.5
S85-1084	17.7			16.5	16.7	15.1	14.4	20.7
S85-1101	20.2			17.8	18.0	17.0	17.1	22.6

UNIFORM TEST IV, 1989

SEED SIZE (g/100)

Strain	Vince-nnes IN	Manhat-tan KS	Powhat-tan KS	Topeka KS	Lexing-ton KY	Queens-town MD	Colum-bia MO	Portageville Clay MO	Portageville Loam MO
FLYER (E)	14.0	15.1		14.0	15.2	16.9	15.4		12.0
PENNYRILE (L)	16.6	16.0		14.5	19.0	19.9	16.5		14.8
PYRAMID (SCN)	16.1	14.4		13.7	15.9	17.3	15.0		14.1
RIPLEY (dt)	14.9	13.9		14.9	16.1	13.9	13.4		11.8
SPENCER (IV)	18.5	18.7		16.7	21.3	20.6	17.8		15.0
C1738	16.7	16.6		16.1	17.7	18.1	15.3		13.4
C1742	16.0	14.9		15.4	15.8	15.3	15.0		12.8
C1747	17.6	18.2		17.8	19.1	18.5	16.7		15.3
HC84-4850	16.6	17.0		16.3	18.9	18.6	16.1		15.2
HC84-4851	17.0	18.2		17.8	18.8	20.1	17.2		16.0
HC85-6723	16.2	18.5		21.2	18.9	17.2	18.9		15.0
K1145	15.5	15.4		15.1	17.9	17.5	16.6		14.2
K1148	14.1	14.0		14.5	18.2	15.1	13.7		13.3
K81-1-48	14.0	13.5		13.6	14.6	14.6	12.5		11.3
K82-1-138	14.0	13.7		14.5	16.1	16.2	14.1		11.5
L83-3804	17.2	16.1		17.1	20.3	19.0	16.2		14.3
LN82-2366	17.3	19.2		18.1	19.1	18.0	17.6		16.3
LN84-452	14.5	15.1		15.9	16.6	17.2	14.8		13.8
LN84-978	15.0	16.9		15.4	18.6	16.7	14.6		12.2
LN84-1304	13.0	16.9		15.2	15.8	16.3	14.2		11.8
LN84-15496	15.0	14.4		15.7	15.1	16.5	14.6		12.5
LN85-3036	16.6	16.8		18.2	19.4	18.1	15.7		14.2
LN85-3402	17.5	18.4		17.1	18.5	16.9	16.5		14.5
LS83-5616	14.6	13.0		12.9	14.4	15.0	13.0		11.1
MD85-5376	16.3	16.4		17.1	19.4	18.7	17.2		16.0
MD85-5443	16.5	17.3		17.5	17.5	17.5	17.4		15.5
S83-1004	15.1	12.7		13.4	13.8	14.3	13.5		11.8
S85-1084	18.2	16.2		17.7	21.4	18.9	17.7		13.9
S85-1101	20.2	20.5		19.1	22.9	21.2	19.5		17.9

UNIFORM TEST IV, 1989

SEED SIZE (g/100)

Strain	Adel-phia NJ	Mt. Orab OH	South Charleston OH	Landis-ville PA	Lubbock TX	Orange VA
FLYER (E)	18.3	15.9	15.3	14.7	15.0	17.5
PENNYRILE (L)	19.3	18.5	15.3	17.5	18.5	20.4
PYRAMID (SCN)	16.3	16.8	12.6	16.2	13.4	16.4
RIPLEY (dt)	16.7	15.2	14.7	13.4	15.3	14.6
SPENCER (IV)	20.0	19.6	16.8	19.5	19.0	21.9
C1738	18.3	19.2	14.9	18.3	16.9	20.0
C1742	17.3	17.1	15.1	15.7	15.9	19.1
C1747	19.0	19.8	18.2	17.4	18.6	20.6
HC84-4850	19.7	18.2	17.1	16.2	17.6	18.3
HC84-4851	19.7	19.4	17.1	19.3	17.1	19.5
HC85-6723	19.0	19.5	17.4	16.8	19.3	21.1
K1145	17.3	17.0	14.2	16.1	16.7	17.7
K1148	16.0	15.1	12.2	15.3	15.3	17.7
K81-1-48	15.7	15.3	11.5	14.1	12.9	16.9
K82-1-138	16.7	15.1	14.1	15.7	13.9	17.1
L83-3804	19.3	17.9	14.8	16.3	17.4	18.0
LN82-2366	19.7	17.9	16.9	17.2	18.5	18.9
LN84-452	18.0	16.7	15.6	16.9	16.9	18.1
LN84-978	18.7	16.2	16.7	17.9	16.1	18.4
LN84-1304	17.0	16.1	15.8	18.4	16.7	18.3
LN84-15496	18.0	15.9	14.1	14.0	15.5	16.1
LN85-3036	18.7	18.6	15.4	18.9	17.5	18.6
LN85-3402	17.3	19.6	15.3	16.4	18.9	20.0
LS83-5616	17.0	14.3	12.1	13.1	13.2	14.4
MD85-5376	19.7	17.2	17.0	19.6	17.8	20.0
MD85-5443	18.0	19.0	16.7	17.9	17.4	18.5
S83-1004	17.0	14.5	11.9	14.7	13.7	15.6
S85-1084	20.3	18.9	16.8	18.3	17.9	18.1
S85-1101	21.7	22.7	18.3	23.3	20.9	22.1

UNIFORM TEST IV, 1989

PROTEIN (%)

Strain	Mean 4 Tests	Vincennes IN	Lexington KY	Columbia MO	Mt Orab OH
FLYER (E)	41.7	43.1	40.7	41.1	41.9
PENNYRILE (L)	42.1	42.0	42.3	41.8	42.4
PYRAMID (SCN)	40.3	40.8	41.0	40.3	39.0
RIPLEY (dt)	39.2	40.2	38.5	38.4	39.5
SPENCER (IV)	41.5	41.5	42.0	41.4	40.9
C1738	42.4	42.7	41.9	42.9	41.9
C1742	41.2	41.1	41.6	41.2	41.0
C1747	41.1	41.5	40.8	41.2	41.0
HC84-4850	42.0	42.2	41.3	41.5	42.8
HC84-4851	41.7	42.8	41.5	40.9	41.5
HC85-6723	42.0	42.9	41.5	41.9	41.5
K1145	42.1	43.0	41.4	41.8	42.0
K1148	42.1	43.1	42.2	41.6	41.4
K81-1-48	40.3	40.3	41.2	39.7	40.0
K82-1-138	42.0	43.0	41.7	40.5	42.8
L83-3804	40.5	40.8	41.3	40.0	39.7
LN82-2366	40.5	41.3	40.5	40.4	39.8
LN84-452	40.3	42.6	40.0	39.1	39.4
LN84-978	41.4	41.5	42.0	40.1	42.1
LN84-1304	41.3	42.1	41.4	40.5	41.3
LN84-15496	40.8	42.3	40.2	39.8	40.8
LN85-3036	41.2	41.6	41.1	39.9	42.1
LN85-3402	40.4	40.7	40.1	39.8	40.8
LS83-5616	39.7	40.5	40.3	39.4	38.6
MD85-5376	41.6	43.0	40.8	41.2	41.4
MD85-5443	42.4	43.1	41.7	42.1	42.5
S83-1004	41.2	41.6	41.7	41.2	40.1
S85-1084	41.9	42.1	41.8	41.4	42.4
S85-1101	42.4	43.7	42.3	42.1	41.6

UNIFORM TEST IV, 1989

OIL (%)

Strain	Mean 4 Tests	Vincennes IN	Lexington KY	Columbia MO	Mt Orab OH
FLYER (E)	20.6	20.6	20.8	20.5	20.5
PENNYRILE (L)	20.4	21.1	20.7	20.1	19.7
PYRAMID (SCN)	20.6	21.2	20.2	19.6	21.3
RIPLEY (dt)	20.7	20.5	20.6	21.4	20.4
SPENCER (IV)	21.0	21.8	21.3	20.2	20.7
C1738	19.9	20.1	20.3	19.6	19.7
C1742	20.3	21.0	20.0	20.2	19.8
C1747	20.9	20.6	21.0	20.9	21.2
HC84-4850	21.2	20.9	21.5	21.5	20.7
HC84-4851	21.3	20.5	21.5	21.9	21.1
HC85-6723	20.3	19.2	20.9	21.1	20.1
K1145	20.0	19.4	20.9	19.7	19.9
K1148	20.2	19.7	20.9	20.1	19.9
K81-1-48	20.3	19.1	21.6	20.1	20.3
K82-1-138	20.0	19.1	21.2	20.1	19.4
L83-3804	20.8	20.4	21.3	20.8	20.5
LN82-2366	21.3	20.6	21.9	21.0	21.8
LN84-452	20.6	20.3	20.7	20.6	20.9
LN84-978	19.4	19.4	19.8	19.3	19.1
LN84-1304	20.4	20.0	21.0	20.0	20.5
LN84-15496	20.5	19.9	20.9	20.1	21.2
LN85-3036	20.7	20.7	21.7	20.4	20.1
LN85-3402	21.1	22.4	20.6	20.6	20.8
LS83-5616	20.2	20.7	20.5	19.7	19.8
MD85-5376	20.1	20.6	20.7	19.5	19.6
MD85-5443	20.1	19.4	20.7	19.9	20.5
S83-1004	19.5	19.0	20.1	19.2	19.6
S85-1084	20.5	21.0	21.1	20.3	19.7
S85-1101	20.3	20.0	21.0	19.9	20.3

UNIFORM PRELIMINARY TEST IVA, 1989

Strain	Parentage	Generation Composited	Unique Traits
Flyer (E)	Asgrow A3127 (4) x Williams 82	BC3 F2	Rps1-k
Pennyrile (L)	Williams x Essex	F5	
Pyramid (SCN)	Franklin x J74-5	F4	SCN 3,4
Spencer (IV)	A75-305022 x Century	F5	
K1165	Harper x Asgrow A3127	F5	
K1166	Harper x Asgrow A3127	F5	
K1167	Harper x Asgrow A3127	F5	
K1168	Harper x Asgrow A3127	F5	
K1169	Harper x Asgrow A3127	F5	
K1170	Harper x Asgrow A3127	F5	
LN84-8397	Hack a HW79015	F5	
LN86-2615	Hack x Lakota	F5	Rps1
LN86-3385	LN78-257 x Asgrow A3127	F5	Rps1, Dt2
LN86-3545	LN78-257 x Asgrow A3127	F5	
LN86-3585	LN78-257 x Asgrow A3127	F5	
LN86-3626	LN78-257 x Asgrow A3127	F5	Dt2
LS84-2046	Pyramid x LS79-W220	F5	SCN 3
LS84-4208	Green 759 x Franklin	F7	SCN 3
LS84-4419	Union x LS78-W124-1	F6	SCN 3
LS85-4924	Mack a Crawford	F6	SCN 3
LS85-5031	Mack x Crawford	F6	SCN 3
LS86-0662	Essex x LS78-W124-1	F6	SCN 3
Md83-48	L76-0022 x HW74-3366	F6	
Md86-5324	Douglas x Md77-5675	F5	
S85-10971	Fayette x Douglas	F5	SCN 3
S85-10973	Fayette x Douglas	F5	SCN 3
S85-11562	L77-443 x L77-906	F5	SCN 3,4
S86-2187	Douglas x Peking	F5	SCN 3
S86-2212	Peking x Elf	F5	SCN 3

UNIFORM PRELIMINARY TEST IVA, 1989

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	Shattering Score Manhattan	PR Urbana Race 1	PS Lafayette a %	PSB Lafayette n %	SMV Lafayette a Score
FLYER (E)	PTTSBlI	1	R	8	10	4E
PENNYRILE (L)	WTTSBlI	1	S	0	14	2M
PYRAMID (SCN)	PGTSIbI	1	S	2	24	5M
SPENCER (IV)	WTBSBrI	2	S	8	32	5E
K1165	PTBSBlI	1	S	2	12	3M
K1166	PTTSBlI	1	S	4	10	2M
K1167	PTTDIbI	1	M	0	16	3M
K1168	PTTDIbI	1	S	0	8	3E
K1169	PTTSIbI	1	S	0	6	2M
K1170	PTTSIbI	2	S	0	12	3M
LN84-8397	PGBSIbI	1	S	0	2	1
LN86-2615	WGTSBfI	1	R	4	20	3M
LN86-3385	WTTSIbI	1	R	0	2	3M
LN86-3545	WGTDBf+IbI	1	S	2	6	1
LN86-3585	WTTSBlI	1	S	0	6	3M
LN86-3626	WGTDBfD	1	S	4	4	1
LS84-2046	WGTSBfD	1	S	2	4	3E
LS84-4208	PTTSBlD	1	R	0	2	5E
LS84-4419	WTTSBlI	1	R	0	2	5E
LS85-4924	PTTSIbI	1	R	0	6	2E
LS85-5031	PTTDBrI	1	R	0	10	3E
LS86-0662	WGTSYI	1	R	0	4	3E
MD83-48	P+WTTSBlI	1	S	0	2	2E
MD86-5324	PTTSBlI	1	R	2	6	3E
S85-10971	WTTDBlI	2	R	4	10	3E
S85-10973	WTTDBlI	2	R	-	12	2E
S85-11562	WTTSBlI	1	R	-	8	2E
S86-2187	WTTSBlI	2	M	-	12	3E
S86-2212	WTTSIbI	1	R	12	46	5E

UNIFORM PRELIMINARY TEST IVA, 1989

REGIONAL SUMMARY

	Yield	Rank	Maturity	Lodging	Plant Height	Seed Quality	Seed Size	Composition Protein	Composition Oil
No. of Tests	8	8	8	8	8	8	8	3	3
Strain	bu/a	No.	Date	Score	In.	Score	g/100	%	%
FLYER (E)	52.8	4	-5.0	1.5	31	1.8	14.9	41.1	21.2
PENNYRILE (L)	47.8	15	6.3	1.5	40	1.9	17.0	41.5	20.7
PYRAMID (SCN)	45.3	23	2.9	2.0	39	1.8	15.2	39.0	20.2
SPENCER (IV)	51.4	8	10/01*	1.3	34	2.6	18.4	40.7	21.2
K1165	52.5	5	-2.0	1.2	28	2.3	17.1	40.4	21.4
K1166	53.3	2	-4.8	1.7	34	1.7	15.9	39.9	20.8
K1167	52.3	6	-2.0	1.6	33	1.9	15.9	40.1	20.6
K1168	52.1	7	-2.9	1.7	32	2.0	16.9	41.6	21.0
K1169	53.6	1	-5.6	1.6	33	1.9	17.5	40.6	21.2
K1170	45.5	22	-6.9	1.3	29	2.0	16.1	40.7	20.6
LN84-8397	50.7	11	-1.0	1.4	35	2.5	17.4	40.8	21.0
LN86-2615	46.7	18	-2.8	1.6	34	2.6	17.7	42.9	20.3
LN86-3385	51.1	9	0.5	1.4	30	1.8	15.5	39.7	21.0
LN86-3545	49.1	12	1.9	1.2	32	1.8	13.4	39.3	21.3
LN86-3585	48.8	13	4.0	1.7	34	1.9	14.6	39.8	20.8
LN86-3626	50.8	10	0.8	1.3	26	1.8	15.0	39.6	21.1
LS84-2046	43.8	26	8.8	1.7	33	1.7	13.0	38.6	19.6
LS84-4208	35.6	29	9.1	2.5	34	2.2	12.1	39.6	17.9
LS84-4419	44.3	25	4.3	2.1	44	2.0	15.4	38.5	20.7
LS85-4924	45.6	21	3.0	2.7	38	1.6	15.1	39.6	20.9
LS85-5031	46.8	17	2.0	3.0	37	1.7	15.4	39.4	20.9
LS86-0662	36.7	28	7.9	1.7	35	1.7	12.4	39.8	18.8
MD83-48	48.2	14	2.6	2.8	41	1.7	16.7	41.7	20.8
MD86-5324	53.1	3	2.8	1.5	32	1.9	19.4	40.7	21.0
S85-10971	42.6	27	0.3	2.3	38	2.6	14.9	41.5	20.3
S85-10973	44.5	24	4.0	2.6	41	2.2	15.2	41.1	20.0
S85-11562	45.7	20	7.8	2.6	40	1.8	14.8	41.8	19.0
S86-2187	47.3	16	-0.8	2.3	34	2.3	18.9	42.0	20.7
S86-2212	46.2	19	2.4	3.2	39	2.2	14.6	40.9	19.5

*132.0 Days After Planting

UNIFORM PRELIMINARY TEST IVA, 1989

YIELD (bu/a)

Strain	Mean 8 Tests	Carbon dale IL	Urbana IL	Man- hattan KS	Lexing ton KY	Queens town MD	Portage ville MO	MT. Orab OH	S.Charle ston OH
FLYER (E)	52.8	40.4	64.2	53.6	53.5	51.4	40.4	49.7	68.9
PENNYRILE (L)	47.8	47.6	41.2	44.0	48.6	54.4	46.3	39.4	61.1
PYRAMID (SCN)	45.3	42.4	38.0	33.8	44.7	43.6	54.4	47.2	57.9
SPENCER (IV)	51.4	41.5	61.9	47.5	56.1	55.3	35.6	47.2	65.7
K1165	52.5	42.1	60.9	52.0	53.6	53.9	51.4	37.7	68.2
K1166	53.3	55.7	58.6	48.4	46.7	53.3	45.6	43.5	74.4
K1167	52.3	51.4	53.4	47.0	52.0	49.6	45.6	48.5	71.0
K1168	52.1	43.2	55.5	48.5	47.4	52.8	49.3	48.2	72.0
K1169	53.6	42.9	61.6	54.0	49.3	49.5	42.9	51.5	77.1
K1170	45.5	42.4	59.9	40.6	46.8	49.9	44.0	34.8	45.3
LN84-8397	50.7	40.5	56.3	51.4	51.7	54.7	40.8	41.7	68.3
LN86-2615	46.7	42.9	50.8	42.7	42.4	48.0	41.9	45.5	59.1
LN86-3385	51.1	56.1	56.4	47.4	49.9	48.8	37.1	44.0	69.3
LN86-3545	49.1	43.5	55.8	45.0	51.6	48.3	45.4	41.3	61.7
LN86-3585	48.8	45.0	46.0	41.3	57.0	49.6	48.2	39.5	63.6
LN86-3626	50.8	45.4	56.5	50.3	45.4	50.8	40.7	47.0	70.5
LS84-2046	43.8	47.3	34.8	37.2	42.3	48.5	64.3	40.5	35.8
LS84-4208	35.6	42.2	22.5	28.3	34.6	41.4	53.0	31.1	31.4
LS84-4419	44.3	43.0	35.2	32.0	45.1	46.9	54.7	45.4	52.1
LS85-4924	45.6	44.3	38.6	42.7	42.0	46.0	55.6	39.9	55.6
LS85-5031	46.8	45.3	40.3	36.6	42.1	50.8	54.8	45.4	59.0
LS86-0662	36.7	42.3	21.5	30.7	42.7	39.8	52.2	24.0	40.3
MD83-48	48.2	53.0	42.1	44.0	48.7	53.3	43.4	45.0	56.4
MD86-5324	53.1	47.6	57.3	45.7	51.5	49.6	41.1	56.5	75.6
S85-10971	42.6	39.9	39.2	41.5	44.8	39.8	50.7	28.4	56.7
S85-10973	44.5	46.0	37.0	42.2	45.0	44.8	54.6	34.5	51.6
S85-11562	45.7	43.6	35.2	35.7	44.3	43.9	68.1	44.6	50.3
S86-2187	47.3	44.9	48.0	43.1	44.9	42.0	53.6	42.3	59.3
S86-2212	46.2	46.4	38.6	43.6	45.6	39.7	58.9	39.1	57.6
C.V. (%)		15.7	7.4	9.3	7.6	6.3	7.9	13.2	8.7
L.S.D. (5%)		13.9	7.1	8.2	6.1	6.2	7.9	11.7	10.7
Row Sp. (In.)		30	30	30	30	30	30	30	7
Rows/Plot		4	4	4	4	4	4	4	8
Reps		2	2	2	2	2	2	2	2

UNIFORM PRELIMINARY TEST IVA, 1989

YIELD RANK

Strain	Yield Rank	Carbon dale IL	Urbana IL	Man- hattan KS	Lexing ton KY	Queens town MD	Portage ville MO	MT. Orab OH	S.Charle ston OH
FLYER (E)	4	28	1	2	4	8	27	3	8
PENNYRILE (L)	15	5	18	13	12	3	16	22	14
PYRAMID (SCN)	23	21	23	26	22	24	8	6	18
SPENCER (IV)	8	26	2	8	2	1	29	6	11
K1165	5	25	4	3	3	4	12	24	10
K1166	2	2	6	7	15	5	17	15	3
K1167	6	4	13	10	5	12	17	4	5
K1168	7	17	12	6	13	7	14	5	4
K1169	1	19	3	1	10	15	22	2	1
K1170	22	21	5	22	14	11	20	25	26
LN84-8397	11	27	10	4	6	2	25	17	9
LN86-2615	18	19	14	17	25	19	23	9	16
LN86-3385	9	1	9	9	9	16	28	14	7
LN86-3545	12	16	11	12	7	18	19	18	13
LN86-3585	13	12	16	21	1	12	15	21	12
LN86-3626	10	10	8	5	17	9	26	8	6
LS84-2046	26	7	27	23	26	17	2	19	28
LS84-4208	29	24	28	29	29	26	10	27	29
LS84-4419	25	18	25	27	18	20	6	10	23
LS85-4924	21	14	21	17	28	21	4	20	22
LS85-5031	17	11	19	24	27	9	5	10	17
LS86-0662	28	23	29	28	24	27	11	29	27
MD83-48	14	3	17	13	11	5	21	12	21
MD86-5324	3	5	7	11	8	12	24	1	2
S85-10971	27	29	20	20	21	27	13	28	20
S85-10973	24	9	24	19	19	22	7	26	24
S85-11562	20	15	25	25	23	23	1	13	25
S86-2187	16	13	15	16	20	25	9	16	15
S86-2212	19	8	21	15	16	29	3	23	19

UNIFORM PRELIMINARY TEST IVA, 1989

MATURITY (date)

Strain	Mean 8 Tests	Carbon dale IL	Urbana IL	Man- hattan KS	Lexing ton KY	Queens town MD	Portage ville MO	MT. Orab OH	S.Charle ston OH
FLYER (E)	-5.0	-6	-4	-2	-10	-6	-4	-7	-1
PENNYRILE (L)	6.3	1	7	4	2	8	14	5	9
PYRAMID (SCN)	2.9	-4	4	0	-3	7	15	2	2
SPENCER (IV)	10/01	10/10	10/06	10/01	09/26	10/11	09/12	10/03	10/06
K1165	-2.0	0	-3	-1	-3	-3	1	-6	-1
K1166	-4.8	-8	-2	-3	-13	-4	-3	-4	-1
K1167	-2.0	-7	0	0	-5	-4	2	-2	0
K1168	-2.9	-5	-1	-1	-7	-4	2	-6	-1
K1169	-5.6	-7	-3	-1	-11	-7	-5	-7	-4
K1170	-6.9	-11	-5	-3	-12	-6	-5	-9	-4
LN84-8397	-1.0	-1	2	0	-9	2	0	-4	2
LN86-2615	-2.8	-4	-2	-2	-5	-5	3	-5	-2
LN86-3385	0.5	-6	3	3	-2	1	8	-3	0
LN86-3545	1.9	-5	2	3	0	2	11	0	2
LN86-3585	4.0	0	5	0	3	4	12	4	4
LN86-3626	0.8	-2	3	0	0	1	2	2	0
LS84-2046	8.8	4	7	5	5	8	20	12	9
LS84-4208	9.1	1	7	8	10	7	19	12	9
LS84-4419	4.3	-2	4	3	0	3	15	7	4
LS85-4924	3.0	-3	4	2	0	2	10	5	4
LS85-5031	2.0	-3	2	0	-2	2	11	3	3
LS86-0662	7.9	2	5	6	5	6	20	10	9
MD83-48	2.6	-4	2	2	0	3	8	7	3
MD86-5324	2.8	0	6	1	2	1	7	3	2
S85-10971	0.3	-6	2	0	-5	-3	7	3	4
S85-10973	4.0	-3	4	1	0	1	11	9	9
S85-11562	7.8	4	6	4	3	7	20	9	9
S86-2187	-0.8	-7	2	-1	-2	-3	5	-3	3
S86-2212	2.4	-3	2	0	0	-2	13	5	4
Date Planted	05/22	05/15	05/15	05/25	05/19	06/12	05/16	05/31	05/19
Days to Mature	132.0	148	144	129	130	121	119	125	140

UNIFORM PRELIMINARY TEST IVA, 1989

LODGING (score)

Strain	Mean 8 Tests	Carbon dale IL	Urbana IL	Man- hattan KS	Lexing ton KY	Queens town MD	Portage ville MO	MT. Orab OH	S.Charle ston OH
FLYER (E)	1.5	1.0	2.5	1.0	1.5	2.3	1.0	1.2	1.3
PENNYRILE (L)	1.5	1.0	1.5	1.0	1.8	2.5	1.0	1.1	2.0
PYRAMID (SCN)	2.0	1.0	2.5	1.0	2.3	2.5	1.0	1.8	3.5
SPENCER (IV)	1.3	1.0	1.0	1.0	1.3	2.3	1.0	1.2	1.5
K1165	1.2	1.0	1.0	1.0	1.3	2.0	1.0	1.2	1.0
K1166	1.7	1.0	2.0	1.0	1.8	3.0	1.0	1.4	2.5
K1167	1.6	1.0	2.0	1.0	1.5	2.5	1.0	1.5	2.0
K1168	1.7	1.0	3.5	1.0	1.5	2.8	1.0	1.2	1.3
K1169	1.6	1.0	2.0	2.0	1.5	2.3	1.0	1.4	1.8
K1170	1.3	1.0	1.0	1.0	1.5	2.0	1.0	1.2	1.3
LN84-8397	1.4	1.0	2.0	1.0	1.5	2.0	1.0	1.1	1.8
LN86-2615	1.6	1.0	2.0	1.0	2.2	2.3	1.0	2.0	1.5
LN86-3385	1.4	1.0	1.0	1.0	2.0	2.0	1.0	1.5	1.8
LN86-3545	1.2	1.0	1.0	1.0	1.3	2.0	1.0	1.2	1.0
LN86-3585	1.7	1.0	2.5	1.0	2.5	2.5	1.0	1.4	1.8
LN86-3626	1.3	1.0	1.0	1.0	1.5	2.0	1.0	1.4	1.5
LS84-2046	1.7	1.0	1.0	1.0	2.5	2.0	1.0	2.4	2.8
LS84-4208	2.5	1.0	1.0	1.0	4.8	2.3	1.5	4.5	3.5
LS84-4419	2.1	1.0	3.0	1.0	2.5	3.0	1.5	2.3	2.5
LS85-4924	2.7	1.0	3.5	2.0	3.8	3.0	2.0	3.6	2.5
LS85-5031	3.0	2.5	4.0	1.0	3.8	3.3	2.0	3.3	4.3
LS86-0662	1.7	1.0	1.0	1.0	2.3	2.0	1.0	1.6	3.8
MD83-48	2.8	1.8	3.0	3.0	2.8	3.5	1.5	3.2	3.5
MD86-5324	1.5	1.0	1.0	1.0	1.8	2.3	1.0	1.7	1.8
S85-10971	2.3	1.0	2.5	1.0	1.8	3.0	2.0	3.3	3.5
S85-10973	2.6	1.0	3.0	1.0	2.3	3.0	2.0	4.0	4.3
S85-11562	2.6	1.0	4.0	1.0	2.0	3.3	2.0	4.0	3.5
S86-2187	2.3	1.0	3.0	1.0	2.3	2.8	1.5	2.4	4.0
S86-2212	3.2	1.0	4.0	1.0	4.3	3.5	3.5	3.9	4.3

UNIFORM PRELIMINARY TEST IVA, 1989

PLANT HEIGHT (inches)

Strain	Mean 8 Tests	Carbon dale IL	Urbana IL	Man- hattan KS	Lexing ton KY	Queens town MD	Portage ville MO	MT. Orab OH	S.Charle ston OH
FLYER (E)	31	26	43	35	30	29	30	26	29
PENNYRILE (L)	40	31	57	39	40	41	43	31	41
PYRAMID (SCN)	39	23	49	43	42	36	43	36	43
SPENCER (IV)	34	24	47	39	31	33	36	29	33
K1165	28	23	37	32	26	27	30	22	27
K1166	34	31	45	35	30	35	34	29	34
K1167	33	25	42	34	31	34	35	29	35
K1168	32	24	43	32	29	35	32	27	31
K1169	33	24	42	38	32	32	34	29	34
K1170	29	22	40	31	28	30	33	25	22
LN84-8397	35	28	47	38	32	35	37	27	32
LN86-2615	34	26	49	38	37	33	32	34	25
LN86-3385	30	22	35	42	29	27	24	31	28
LN86-3545	32	24	46	32	32	34	30	29	29
LN86-3585	34	24	50	31	34	34	38	27	30
LN86-3626	26	20	33	28	26	23	24	29	26
LS84-2046	33	24	42	35	37	29	37	25	32
LS84-4208	34	23	44	33	34	32	37	32	33
LS84-4419	44	27	58	54	43	44	50	37	39
LS85-4924	38	28	54	42	34	35	42	33	36
LS85-5031	37	29	49	38	34	34	40	33	37
LS86-0662	35	25	49	36	32	32	38	28	39
MD83-48	41	32	51	48	35	38	42	38	42
MD86-5324	32	23	41	35	34	31	30	32	29
S85-10971	38	30	53	40	36	36	43	31	36
S85-10973	41	29	53	40	37	38	47	38	43
S85-11562	40	24	51	43	34	40	48	36	40
S86-2187	34	29	48	35	31	31	34	29	35
S86-2212	39	31	50	36	36	34	47	33	43

UNIFORM PRELIMINARY TEST IVA, 1989

SEED QUALITY (score)

Strain	Mean 8 Tests	Carbon dale IL	Urbana IL	Man- hattan KS	Lexing ton KY	Queens town MD	Portage ville MO	MT. Orab OH	S.Charle ston OH
FLYER (E)	1.8	2.0	1.2	2.0	2.0	1.5	2.0	2.5	1.5
PENNYRILE (L)	1.9	2.0	1.2	1.0	2.0	1.5	2.0	3.3	2.0
PYRAMID (SCN)	1.8	2.0	1.2	2.0	2.0	1.8	2.0	2.0	1.5
SPENCER (IV)	2.6	4.0	1.2	3.0	3.0	1.5	2.5	3.5	2.0
K1165	2.3	3.0	1.3	2.0	3.0	2.0	2.0	2.5	2.5
K1166	1.7	2.0	1.2	1.0	2.0	1.8	2.0	1.5	2.0
K1167	1.9	2.0	1.2	1.0	2.0	2.0	2.0	3.0	2.0
K1168	2.0	2.0	1.2	1.0	3.0	2.0	2.5	2.5	1.5
K1169	1.9	2.0	1.2	2.0	3.0	1.5	2.0	2.0	1.5
K1170	2.0	2.0	1.2	2.0	2.0	2.5	1.5	3.5	1.5
LN84-8397	2.5	4.0	1.2	1.0	4.0	2.0	2.0	3.0	2.5
LN86-2615	2.6	4.0	1.2	1.0	2.0	2.5	3.5	3.5	3.0
LN86-3385	1.8	1.0	1.2	2.0	3.0	1.5	2.0	2.5	1.5
LN86-3545	1.8	2.0	1.2	2.0	3.0	1.8	2.0	1.0	1.0
LN86-3585	1.9	2.0	1.2	2.0	3.0	1.3	2.0	2.0	2.0
LN86-3626	1.8	2.0	1.2	2.0	2.0	1.3	2.0	3.0	1.0
LS84-2046	1.7	2.0	1.2	3.0	2.0	1.0	1.5	2.0	1.0
LS84-4208	2.2	1.0	3.1	3.0	2.0	1.3	2.0	3.5	2.0
LS84-4419	2.0	2.0	1.2	2.0	3.0	1.3	2.5	2.8	1.0
LS85-4924	1.6	2.0	1.2	2.0	2.0	1.0	1.5	2.0	1.0
LS85-5031	1.7	2.0	1.2	1.0	2.0	1.3	2.5	2.0	1.5
LS86-0662	1.7	2.0	1.2	2.0	1.0	1.8	2.5	2.3	1.0
MD83-48	1.7	2.0	1.2	1.0	3.0	1.5	2.0	1.5	1.5
MD86-5324	1.9	2.0	1.2	1.0	2.0	2.0	2.5	2.5	2.0
S85-10971	2.6	3.0	1.2	3.0	3.0	3.0	2.0	3.0	2.5
S85-10973	2.2	2.0	1.2	2.0	3.0	3.0	2.5	2.5	1.5
S85-11562	1.8	2.0	1.2	1.0	3.0	1.5	2.0	2.5	1.5
S86-2187	2.3	3.0	1.2	2.0	3.0	2.3	2.0	2.0	2.5
S86-2212	2.2	3.0	1.2	2.0	3.0	2.0	2.0	2.0	2.5

UNIFORM PRELIMINARY TEST IVA, 1989

SEED SIZE (g/100)

Strain	Mean 8 Tests	Carbon dale IL	Urbana IL	Man- hattan KS	Lexing ton KY	Queens town MD	Portage ville MO	MT. Orab OH	S.Charle ston OH
FLYER (E)	14.9	14.0	15.0	14.4	16.6	16.6	12.8	16.3	13.4
PENNYRILE (L)	17.0	16.3	15.8	17.7	18.0	20.0	15.3	18.0	14.9
PYRAMID (SCN)	15.2	14.9	13.7	14.1	16.8	17.4	13.8	16.5	14.3
SPENCER (IV)	18.4	16.3	19.1	19.0	20.2	19.9	15.4	19.7	17.5
K1165	17.1	17.0	17.7	17.0	19.6	18.3	15.1	17.3	15.1
K1166	15.9	16.7	16.3	15.4	16.9	16.5	12.9	16.5	15.7
K1167	15.9	15.4	15.7	14.8	18.6	17.5	15.0	16.2	14.2
K1168	16.9	15.6	17.3	16.1	19.4	18.6	14.4	17.8	15.7
K1169	17.5	16.7	17.8	17.3	19.2	18.7	16.2	18.1	16.2
K1170	16.1	14.1	16.9	17.3	17.7	17.3	13.7	16.4	15.7
LN84-8397	17.4	17.6	18.3	17.5	18.7	18.7	13.3	18.3	16.6
LN86-2615	17.7	16.6	17.2	18.3	18.6	19.2	16.0	19.2	16.7
LN86-3385	15.5	15.5	14.9	14.4	16.6	17.0	13.5	16.3	15.5
LN86-3545	13.4	13.4	13.7	12.9	15.5	14.8	12.2	13.1	11.3
LN86-3585	14.6	14.3	15.0	14.5	15.9	16.0	13.2	14.0	13.6
LN86-3626	15.0	14.4	15.6	14.8	16.9	15.6	12.3	15.9	14.2
LS84-2046	13.0	13.8	12.3	11.5	12.9	15.9	13.4	12.8	11.1
LS84-4208	12.1	11.8	11.6	10.2	14.0	14.9	12.5	11.9	10.2
LS84-4419	15.4	14.9	14.7	14.0	17.2	17.5	14.7	16.8	13.5
LS85-4924	15.1	15.2	13.1	14.6	16.4	17.5	13.7	16.1	13.8
LS85-5031	15.4	15.3	14.2	14.3	17.1	17.6	13.9	15.8	14.6
LS86-0662	12.4	13.4	11.4	11.2	14.1	13.0	14.3	11.5	10.5
MD83-48	16.7	15.9	16.2	16.4	19.0	18.8	14.2	17.8	15.6
MD86-5324	19.4	18.5	18.8	19.4	22.1	20.1	16.8	21.1	18.5
S85-10971	14.9	14.8	14.5	14.3	17.4	15.5	13.5	14.9	13.9
S85-10973	15.2	16.0	13.9	13.6	17.7	17.0	14.2	15.3	14.2
S85-11562	14.8	14.6	14.0	13.7	16.5	16.1	14.9	15.4	13.1
S86-2187	18.9	17.8	19.4	19.2	21.0	19.2	16.5	20.2	18.2
S86-2212	14.6	14.2	15.2	12.6	16.3	15.5	13.0	16.1	13.5

UNIFORM PRELIMINARY TEST IVA, 1989

PROTEIN (%)

Strain	Mean 3 Tests	Manhattan KS	Lexington KY	MT. Orab OH
FLYER (E)	41.1	40.3	41.1	41.8
PENNYRILE (L)	41.5	40.3	42.5	41.7
PYRAMID (SCN)	39.0	37.6	40.9	38.5
SPENCER (IV)	40.7	39.6	40.4	42.0
K1165	40.4	39.4	41.7	40.0
K1166	39.9	39.0	40.5	40.2
K1167	40.1	39.2	40.8	40.4
K1168	41.6	40.7	42.3	41.7
K1169	40.6	39.5	41.4	40.9
K1170	40.7	40.3	40.7	41.0
LN84-8397	40.8	39.4	42.2	40.7
LN86-2615	42.9	42.7	43.0	43.1
LN86-3385	39.7	38.0	40.6	40.5
LN86-3545	39.3	39.7	39.6	38.6
LN86-3585	39.8	37.8	40.3	41.4
LN86-3626	39.6	38.7	40.0	40.1
LS84-2046	38.6	38.1	39.3	38.5
LS84-4208	39.6	37.7	41.0	40.1
LS84-4419	38.5	36.8	40.4	38.4
LS85-4924	39.6	38.1	40.1	40.7
LS85-5031	39.4	37.1	41.8	39.2
LS86-0662	39.8	38.0	41.1	40.4
MD83-48	41.7	40.9	42.6	41.6
MD86-5324	40.7	39.3	42.1	40.8
S85-10971	41.5	39.8	43.7	41.0
S85-10973	41.1	39.0	42.9	41.5
S85-11562	41.8	38.9	44.1	42.4
S86-2187	42.0	41.4	42.7	42.0
S86-2212	40.9	39.4	42.2	41.2

UNIFORM PRELIMINARY TEST IVA, 1989

OIL (%)

Strain	Mean 3 Tests	Manhattan KS	Lexington KY	MT. Orab OH
FLYER (E)	21.2	21.2	21.1	21.3
PENNYRILE (L)	20.7	21.1	20.3	20.8
PYRAMID (SCN)	20.2	21.2	20.0	19.3
SPENCER (IV)	21.2	22.1	21.6	19.9
K1165	21.4	22.1	21.2	20.8
K1166	20.8	21.6	20.9	20.0
K1167	20.6	21.1	21.1	19.5
K1168	21.0	21.9	20.9	20.2
K1169	21.2	21.6	21.5	20.5
K1170	20.6	21.1	20.9	19.7
LN84-8397	21.0	21.7	21.1	20.1
LN86-2615	20.3	20.2	20.6	20.0
LN86-3385	21.0	21.5	21.1	20.3
LN86-3545	21.3	21.8	22.2	19.9
LN86-3585	20.8	21.8	21.0	19.7
LN86-3626	21.1	21.4	21.9	19.9
LS84-2046	19.6	19.9	20.2	18.6
LS84-4208	17.9	18.1	18.6	16.9
LS84-4419	20.7	20.5	21.3	20.3
LS85-4924	20.9	21.5	21.4	19.9
LS85-5031	20.9	21.8	20.5	20.3
LS86-0662	18.8	19.8	19.3	17.4
MD83-48	20.8	21.1	21.3	20.0
MD86-5324	21.0	21.5	21.2	20.2
S85-10971	20.3	20.9	20.8	19.1
S85-10973	20.0	21.0	20.9	18.2
S85-11562	19.0	19.8	19.3	18.0
S86-2187	20.7	21.1	21.1	20.0
S86-2212	19.5	19.6	20.0	19.0

UNIFORM PRELIMINARY TEST IVB, 1989

Strain	Parentage	Generation Composited	Unique Traits
Flyer (E)	Asgrow A3127 (4) x Williams 82	BC3 F2	Rps1-k
Pennyrile (L)	Williams x Essex	F5	
Spencer (IV)	A75-305022 x Century	F5	
C1755	Miami x Williams 82	F6	
C1758	C1627 x Harper	F6	
C1766	Sparks x Harper	F6	
C1767	Winchester x Harper	F6	Rps1-b, Rps3
C1768	Winchester x Harper	F6	Rps1-b, Rps3
C1770	Winchester x Harper	F6	Rps1-b, Rps3 (H)
C1771	Winchester x Harper	F6	Rps1-b, Rps3
HC85-5097	Amcor x L70T-543G		
HC85-5148	Pella x Gnome		
Ripley (dt)	Hodgson x V68-1034	F5	dtl
C1778	CX859-112 x CX663-37-2-2-1-6	F6	dtl
C1779	CX859-112 x CX663-37-2-2-1-6	F6	dtl
C1780	CX859-112 x CX663-37-2-2-1-6	F6	dtl
C1781	CX859-112 x CX663-37-2-2-1-6	F6	dtl
C1783	CX773-28-3-4 x CX859-112	F6	dtl
HC84-2201	HC76-4030 x Hobbit	F5	dtl
HC85-275	HC78-353 x Sprite	F5	dtl
HC85-279	HC78-353 x Sprite	F5	dtl
HC85-602	Sprite x Asgrow A3127	F5	dtl
HC85-1554	Hobbit x Ransom	F5	dtl
HC85-1693	Asgrow A3127 x Forrest	F5	dtl
HC85-2133	Pixie x L77-1836	F5	dtl
HC85-6484	Pixie x Forrest	F5	dtl
HC85-6551	HC78-350 x Essex	F5	dtl
HC86-4863	HC78-354 x Pixie	F5	dtl
Ky85-09073	Ripley x Pershing	F5	dtl

UNIFORM PRELIMINARY TEST IVB, 1989

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	Shattering Score Manhattan	PR Urbana Race 1	PS Lafayette a %	PSB Lafayette n %	SMV Lafayette a Score
FLYER (E)	PTTSBlI	1	R	8	10	4E
PENNYRILE (L)	WTTSBlI	1	S	0	14	2M
SPENCER (IV)	WTBSBrI	2	S	8	32	5E
C1755	WTTSBlI	1	R	0	2	3E
C1758	PGBSIbI	1	S	0	2	3M
C1766	PTTSBlI	1	R	0	8	3E
C1767	WTB+TSBlI	2	R	2	2	2M
C1768	PTB+TSBlI	2	R	0	4	1
C1770	WTTSBlI	1	M	0	14	5E
C1771	WTBSBlI	2	R	6	8	5E
HC85-5097	WGBSBfI	2	R	4	10	5E
HC85-5148	PTTSBlI	1	R	2	20	5E
RIPLEY (dt)	PGTSBfD	1	R	1	4	3M
C1778	PTTSBlD	1	R	2	2	5E
C1779	PTTSBlD	1	R	0	4	5E
C1780	PTBSBlD	1	R	0	8	5E
C1781	PTTSBlD	1	R	0	4	5E
C1783	PGBDIbD	1	S	2	4	5E
HC84-2201	WTTDBlD	1	S	0	20	5M
HC85-275	WTTSBlD	1	S	0	2	5M
HC85-279	PTTSBl+BrD	1	S	2	8	5E
HC85-602	P+WTTDBlD	1	S	4	6	5M
HC85-1554	WTTSBlD	1	S	0	4	3M
HC85-1693	WTTDIbD	1	S	0	4	4M
HC85-2133	PTTSBlD	1	R	0	14	5S
HC85-6484	PTTSBlD	1	S	4	0	3M
HC85-6551	P+WTTDBlD	1	S	0	4	5E
HC86-4863	PTTDBlD	1	S	0	12	1
KY85-09073	PGTSBfD	1	R	0	2	1

UNIFORM PRELIMINARY TEST IVB, 1989

REGIONAL SUMMARY

	Yield	Rank	Maturity	Lodging	Plant Height	Seed Quality	Seed Size	Composition Protein	Composition Oil
No. of Tests	8	8	8	8	8	8	8	3	3
Strain	bu/a	No.	Date	Score	In.	Score	g/100	%	%
* FLYER (E)	52.5	1	-4.6	1.5	32	1.9	15.2	41.2	20.6
PENNYRILE (L)	47.2	22	6.6	1.8	41	2.1	16.7	41.8	20.3
SPENCER (IV)	49.8	10	10/02*	1.5	36	2.5	18.4	40.6	20.5
C1755	46.6	25	0.6	1.9	43	2.5	16.4	41.3	21.0
* C1758	50.9	3	-0.4	1.5	34	2.4	19.4	41.8	20.3
C1766	46.7	23	6.0	1.7	39	1.8	17.0	39.7	20.3
C1767	48.4	16	-2.5	1.5	33	2.2	22.0	41.2	20.8
C1768	50.0	7	-1.5	1.6	34	2.0	19.5	41.4	20.4
C1770	48.9	13	-1.8	1.5	36	2.3	19.3	41.2	20.7
C1771	48.0	17	-4.5	1.4	32	2.6	20.7	39.7	21.1
HC85-5097	47.7	19	-4.5	2.4	40	3.0	15.8	38.8	21.1
HC85-5148	45.8	28	-4.6	1.8	38	2.2	19.3	40.2	21.8
RIPLEY (dt)	49.0	11	-2.3	1.1	23	1.8	14.3	38.2	20.7
C1778	49.0	11	-2.4	1.1	21	1.8	17.8	39.8	21.4
C1779	47.5	20	-0.8	1.2	27	1.8	16.9	40.2	21.2
C1780	49.9	8	-0.3	1.1	21	2.0	17.0	38.9	21.6
C1781	45.5	29	-3.9	1.1	21	2.2	15.4	39.4	21.5
C1783	45.9	27	-7.9	1.2	26	2.3	14.5	40.6	21.0
HC84-2201	46.0	26	-5.1	1.1	18	2.6	17.4	41.3	21.0
HC85-275	50.8	4	-4.6	1.1	20	2.2	16.7	40.4	21.5
HC85-279	50.2	5	-5.4	1.0	20	2.1	18.0	39.9	21.1
HC85-602	49.9	8	-6.3	1.1	21	1.9	16.5	40.1	21.7
HC85-1554	48.6	15	-3.8	1.2	22	2.1	18.7	39.3	22.5
HC85-1693	48.7	14	-2.5	1.2	23	1.8	13.3	39.6	19.9
HC85-2133	47.5	20	-1.9	1.1	20	1.7	17.2	41.2	20.6
HC85-6484	51.3	2	-2.9	1.1	19	1.9	15.1	39.7	21.5
HC85-6551	46.7	23	-3.5	1.1	20	1.9	16.4	41.1	21.8
HC86-4863	47.9	18	-4.4	1.1	20	2.1	17.4	41.3	21.3
KY85-09073	50.1	6	0.4	1.2	26	1.8	16.4	40.3	21.2

*132.1 Days After Planting

UNIFORM PRELIMINARY TEST IVB, 1989

YIELD (bu/a)

Strain	Mean 8 Tests	Carbon dale IL	Urbana IL	Man- hattan KS	Lexing ton KY	Queens town MD	Portage ville MO	MT. Orab OH	S.Charle ston OH
FLYER (E)	52.5	27.1	64.2	59.2	48.0	46.5	44.6	48.1	82.1
PENNYRILE (L)	47.2	28.2	42.5	46.0	49.5	51.8	54.9	45.9	59.1
SPENCER (IV)	49.8	17.3	60.3	56.2	41.5	52.2	45.0	49.9	76.3
C1755	46.6	22.6	39.1	50.8	49.4	48.3	49.4	44.4	68.5
C1758	50.9	26.5	50.9	54.7	51.7	50.6	46.1	55.8	70.9
C1766	46.7	21.7	43.9	48.7	50.7	53.9	45.6	49.8	59.3
C1767	48.4	17.6	50.6	57.6	50.2	48.0	46.6	45.6	71.1
C1768	50.0	22.5	52.3	56.1	49.9	47.4	48.0	52.9	70.9
C1770	48.9	21.6	50.2	57.0	47.7	50.6	45.8	45.0	73.3
C1771	48.0	17.0	57.6	55.0	47.1	47.0	45.3	35.0	80.1
HC85-5097	47.7	17.8	47.3	53.8	39.6	50.4	51.3	40.2	80.8
HC85-5148	45.8	11.4	57.7	46.8	50.6	44.2	35.1	46.3	73.9
RIPLEY (dt)	49.0	23.6	59.4	60.6	50.6	40.2	44.9	36.2	76.5
C1778	49.0	20.7	61.2	53.5	44.3	40.4	43.2	46.3	82.1
C1779	47.5	20.5	58.9	48.9	51.6	43.9	38.0	39.3	78.9
C1780	49.9	22.1	62.1	59.3	51.1	38.5	41.2	45.2	79.8
C1781	45.5	26.2	53.9	54.8	48.3	39.6	41.0	16.1	84.2
C1783	45.9	12.9	60.6	58.2	48.2	38.4	39.4	35.4	73.7
HC84-2201	46.0	11.8	64.5	54.5	36.0	38.2	43.4	44.4	75.0
HC85-275	50.8	18.9	63.5	53.2	46.3	39.9	48.8	47.0	88.8
HC85-279	50.2	12.9	63.3	54.9	41.8	41.6	45.0	54.0	88.1
HC85-602	49.9	18.1	66.7	60.3	44.5	41.4	41.6	39.9	86.8
HC85-1554	48.6	15.5	64.0	58.8	43.7	36.1	40.4	49.8	80.6
HC85-1693	48.7	22.0	71.4	52.4	44.5	33.7	37.7	43.6	84.3
HC85-2133	47.5	16.8	44.6	53.3	47.1	41.6	44.7	53.1	78.5
HC85-6484	51.3	28.5	64.8	54.4	48.5	43.2	44.8	44.6	81.3
HC85-6551	46.7	18.3	61.0	51.1	43.9	42.3	42.2	37.3	77.2
HC86-4863	47.9	12.4	68.8	52.0	36.2	35.6	41.4	52.2	84.4
KY85-09073	50.1	22.8	61.2	48.9	48.4	48.2	46.8	48.6	76.0
C.V. (%)		16.9	5.7	6.0	9.9	7.4	11.8	17.0	5.4
L.S.D. (5%)		6.7	6.7	6.7	7.9	6.6	10.7	14.6	8.6
Row Sp. (In.)		30	30	30	30	30	30	30	7
Rows/Plot		4	4	4	4	4	4	4	8
Reps		2	2	2	2	2	2	2	2

UNIFORM PRELIMINARY TEST IVB, 1989

YIELD RANK

Strain	Yield Rank	Carbon dale IL	Urbana IL	Man- hattan KS	Lexing ton KY	Queens town MD	Portage ville MO	MT. Orab OH	S.Charle ston OH
FLYER (E)	1	3	6	4	15	12	17	10	7
PENNYRILE (L)	22	2	28	29	9	3	1	14	29
SPENCER (IV)	10	21	15	9	26	2	12	6	18
C1755	25	8	29	24	10	7	3	19	27
C1758	3	4	22	14	1	4	8	1	25
C1766	23	12	27	27	4	1	10	7	28
C1767	16	20	23	7	7	9	7	15	24
C1768	7	9	21	10	8	10	5	4	25
C1770	13	13	24	8	16	4	9	17	23
C1771	17	22	19	11	17	11	11	28	12
HC85-5097	19	19	25	17	27	6	2	22	10
HC85-5148	28	29	18	28	5	13	29	12	21
RIPLEY (dt)	11	6	16	1	5	21	14	26	17
C1778	11	14	11	18	22	20	19	12	7
C1779	20	15	17	25	2	14	27	24	14
C1780	8	10	10	3	3	24	23	16	13
C1781	29	5	20	13	13	23	24	29	6
C1783	27	25	14	6	14	25	26	27	22
HC84-2201	26	28	5	15	29	26	18	19	20
HC85-275	4	16	8	20	19	22	4	11	1
HC85-279	5	25	9	12	25	17	13	2	2
HC85-602	8	18	3	2	20	19	21	23	3
HC85-1554	15	24	7	5	24	27	25	7	11
HC85-1693	14	11	1	21	20	29	28	21	5
HC85-2133	20	23	26	19	17	17	16	3	15
HC85-6484	2	1	4	16	11	15	15	18	9
HC85-6551	23	17	13	23	23	16	20	25	16
HC86-4863	18	27	2	22	28	28	22	5	4
KY85-09073	6	7	11	25	12	8	6	9	19

UNIFORM PRELIMINARY TEST IVB, 1989

MATURITY (date)

Strain	Mean 8 Tests	Carbon dale IL	Urbana IL	Man- hattan KS	Lexing ton KY	Queens town MD	Portage ville MO	MT. Orab OH	S.Charle ston OH
FLYER (E)	-4.6	-5	-5	-3	-7	-6	-8	-1	-2
PENNYRILE (L)	6.6	2	7	4	5	5	13	8	9
SPENCER (IV)	10/02	10/10	10/07	10/03	09/24	10/10	09/15	10/01	10/06
C1755	0.6	-1	-1	1	4	0	0	1	1
C1758	-0.4	0	-4	1	1	-2	-1	2	0
C1766	6.0	1	1	2	5	7	13	10	9
C1767	-2.5	0	-5	0	-6	-4	-4	0	-1
C1768	-1.5	-1	-1	0	-1	-4	-3	-1	-1
C1770	-1.8	-2	-1	-2	-3	-4	-3	1	0
C1771	-4.5	-5	-5	-2	-9	-3	-6	-4	-2
HC85-5097	-4.5	-2	-5	-1	-9	0	-8	-7	-4
HC85-5148	-4.6	-6	-3	-2	-10	-7	-6	-1	-2
RIPLEY (dt)	-2.3	-2	-5	-2	1	-6	-5	0	1
C1778	-2.4	-7	-3	-2	-5	-4	0	2	0
C1779	-0.8	-5	0	1	1	-3	-2	0	2
C1780	-0.3	-4	-2	-1	1	-1	1	2	2
C1781	-3.9	-6	-5	-2	-5	-5	-2	-4	-2
C1783	-7.9	-15	-7	-2	-9	-11	-9	-7	-3
HC84-2201	-5.1	-9	-2	-2	-10	-6	-4	-6	-2
HC85-275	-4.6	-7	-5	-2	-10	-5	-4	-2	-2
HC85-279	-5.4	-9	-5	-2	-10	-7	-5	-2	-3
HC85-602	-6.3	-7	-5	-2	-10	-10	-6	-7	-3
HC85-1554	-3.8	-5	-3	-2	-9	-4	-4	-1	-2
HC85-1693	-2.5	-2	1	-2	-6	-3	-4	-3	-1
HC85-2133	-1.9	-8	-1	-2	-1	-3	-3	2	1
HC85-6484	-2.9	-5	-1	-2	-6	-3	-4	1	-3
HC85-6551	-3.5	-7	-2	-2	-8	-1	-3	-5	0
HC86-4863	-4.4	-6	-4	-2	-10	-4	-5	-2	-2
KY85-09073	0.4	2	1	-2	2	-5	-3	5	3
Date Planted	05/22	05/15	05/15	05/25	05/19	06/12	05/16	05/31	05/19
Days to Mature	132.1	148	145	131	128	120	122	123	140

UNIFORM PRELIMINARY TEST IVB, 1989

LODGING (score)

Strain	Mean 8 Tests	Carbon dale IL	Urbana IL	Man- hattan KS	Lexing ton KY	Queens town MD	Portage ville MO	MT. Orab OH	S.Charle ston OH
FLYER (E)	1.5	1.0	2.5	1.0	1.8	2.0	1.0	1.2	1.3
PENNYRILE (L)	1.8	1.0	1.5	2.0	1.5	2.8	1.0	1.4	2.8
SPENCER (IV)	1.5	1.0	1.0	1.0	2.3	2.3	1.0	1.2	1.8
C1755	1.9	1.0	1.5	3.0	2.0	3.0	1.0	1.3	2.0
C1758	1.5	1.0	2.0	2.0	1.0	2.0	1.0	1.3	1.8
C1766	1.7	1.0	2.5	1.0	1.5	2.0	1.0	1.6	3.0
C1767	1.5	1.0	2.0	1.0	1.8	2.0	1.0	1.4	1.5
C1768	1.6	1.0	2.0	2.0	1.8	2.0	1.0	1.6	1.5
C1770	1.5	1.0	1.5	1.0	1.5	2.3	1.0	1.6	2.0
C1771	1.4	1.0	2.0	1.0	1.5	2.0	1.0	1.2	1.5
HC85-5097	2.4	1.0	2.5	3.0	3.3	3.3	1.5	1.5	3.0
HC85-5148	1.8	1.0	2.0	2.0	2.0	2.5	1.0	1.3	2.5
RIPLEY (dt)	1.1	1.0	1.0	1.0	1.5	1.0	1.0	1.1	1.3
C1778	1.1	1.0	1.0	1.0	1.5	1.0	1.0	1.1	1.3
C1779	1.2	1.0	1.0	1.0	1.5	1.5	1.0	1.3	1.3
C1780	1.1	1.0	1.5	1.0	1.2	1.0	1.0	1.3	1.0
C1781	1.1	1.0	1.0	1.0	1.5	1.0	1.0	1.2	1.3
C1783	1.2	1.0	1.0	1.0	1.5	1.0	1.0	1.2	1.8
HC84-2201	1.1	1.0	1.0	1.0	1.5	1.0	1.0	1.2	1.0
HC85-275	1.1	1.0	1.0	1.0	1.5	1.0	1.0	1.2	1.0
HC85-279	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.2	1.0
HC85-602	1.1	1.0	1.0	1.0	1.5	1.0	1.0	1.2	1.0
HC85-1554	1.2	1.0	1.5	1.0	1.5	1.0	1.0	1.2	1.0
HC85-1693	1.2	1.0	1.0	1.0	1.5	1.5	1.0	1.3	1.0
HC85-2133	1.1	1.0	1.0	1.0	1.3	1.0	1.0	1.3	1.0
HC85-6484	1.1	1.0	1.0	1.0	1.5	1.0	1.0	1.2	1.0
HC85-6551	1.1	1.0	1.0	1.0	1.5	1.0	1.0	1.1	1.0
HC86-4863	1.1	1.0	1.0	1.0	1.5	1.0	1.0	1.2	1.0
KY85-09073	1.2	1.0	1.0	1.0	1.5	1.0	1.0	1.3	1.8

UNIFORM PRELIMINARY TEST IVB, 1989

PLANT HEIGHT (inches)

Strain	Mean 8 Tests	Carbon dale IL	Urbana IL	Man- hattan KS	Lexing ton KY	Queens town MD	Portage ville MO	MT. Orab OH	S.Charle ston OH
FLYER (E)	32	23	40	38	31	32	32	28	35
PENNYRILE (L)	41	23	53	51	41	39	43	39	40
SPENCER (IV)	36	23	47	40	38	35	37	27	38
C1755	43	27	59	52	43	42	46	34	37
C1758	34	26	41	41	31	33	35	30	36
C1766	39	23	51	46	34	38	43	36	37
C1767	33	22	45	35	34	31	32	31	32
C1768	34	23	43	38	32	32	36	31	36
C1770	36	21	49	41	34	34	39	30	39
C1771	32	20	43	39	31	29	34	25	35
HC85-5097	40	24	56	51	38	40	39	32	37
HC85-5148	38	24	52	48	39	36	36	32	39
RIPLEY (dt)	23	16	31	28	21	20	18	21	28
C1778	21	15	29	22	18	19	17	22	26
C1779	27	19	32	34	27	25	22	26	29
C1780	21	16	28	26	21	19	17	21	23
C1781	21	18	26	24	23	17	17	18	28
C1783	26	14	32	33	24	23	21	26	31
HC84-2201	18	12	24	24	16	15	15	20	16
HC85-275	20	17	25	22	18	17	16	21	24
HC85-279	20	16	25	22	19	18	16	20	22
HC85-602	21	17	25	24	18	18	18	21	24
HC85-1554	22	16	29	24	21	19	17	21	25
HC85-1693	23	18	32	25	22	19	19	25	24
HC85-2133	20	13	26	24	18	17	15	22	22
HC85-6484	19	14	24	22	21	16	16	18	24
HC85-6551	20	14	27	23	18	16	16	18	24
HC86-4863	20	15	27	26	18	17	16	21	23
KY85-09073	26	19	35	29	27	23	20	24	30

UNIFORM PRELIMINARY TEST IVB, 1989

SEED QUALITY (score)

Strain	Mean 8 Tests	Carbon dale IL	Urbana IL	Man- hattan KS	Lexing ton KY	Queens town MD	Portage ville MO	MT. Orab OH	S.Charle ston OH
FLYER (E)	1.9	4.0	1.2	1.0	2.0	1.5	2.0	1.6	1.5
PENNYRILE (L)	2.1	3.0	1.2	2.0	3.0	1.3	2.5	1.6	2.0
SPENCER (IV)	2.5	5.0	1.3	2.0	2.0	1.8	2.0	3.6	2.0
C1755	2.5	5.0	1.2	2.0	3.0	2.0	2.0	2.4	2.0
C1758	2.4	4.0	1.2	2.0	3.0	2.3	2.0	2.9	2.0
C1766	1.8	3.0	1.2	1.0	2.0	1.3	2.0	2.4	1.5
C1767	2.2	4.0	1.2	2.0	2.0	2.3	2.5	1.8	1.5
C1768	2.0	4.0	1.2	1.0	3.0	2.0	2.0	1.6	1.0
C1770	2.3	4.0	1.2	2.0	3.0	2.0	2.0	2.0	2.0
C1771	2.6	5.0	1.2	3.0	2.0	2.8	2.0	2.9	1.5
HC85-5097	3.0	4.0	1.4	4.0	2.0	3.3	2.5	3.9	2.5
HC85-5148	2.2	4.0	1.2	2.0	2.0	2.0	2.5	2.4	1.5
RIPLEY (dt)	1.8	3.0	1.2	1.0	3.0	2.3	1.5	1.2	1.0
C1778	1.8	3.0	1.2	2.0	2.0	2.0	1.5	1.7	1.0
C1779	1.8	3.0	1.2	1.0	2.0	2.0	2.0	2.4	1.0
C1780	2.0	4.0	1.2	2.0	3.0	2.3	1.5	1.3	1.0
C1781	2.2	4.0	1.2	2.0	3.0	3.0	1.5	1.0	1.5
C1783	2.3	3.0	1.2	2.0	3.0	3.8	2.0	1.8	1.5
HC84-2201	2.6	5.0	1.2	2.0	3.0	3.3	2.0	2.9	1.0
HC85-275	2.2	4.0	1.2	2.0	3.0	2.0	2.0	2.1	1.0
HC85-279	2.1	3.0	1.2	3.0	3.0	2.0	2.0	1.5	1.0
HC85-602	1.9	4.0	1.2	1.0	2.0	2.3	2.0	1.8	1.0
HC85-1554	2.1	4.0	1.2	3.0	2.0	2.5	2.0	1.4	1.0
HC85-1693	1.8	3.0	1.2	2.0	2.0	1.5	2.0	1.4	1.0
HC85-2133	1.7	3.0	1.2	1.0	3.0	1.8	1.5	1.3	1.0
HC85-6484	1.9	2.0	1.2	3.0	3.0	2.0	1.5	1.3	1.0
HC85-6551	1.9	4.0	1.2	1.0	2.0	2.5	2.0	1.7	1.0
HC86-4863	2.1	4.0	1.2	2.0	3.0	2.0	2.0	1.1	1.5
KY85-09073	1.8	4.0	1.2	1.0	2.0	1.3	2.0	1.3	1.5

UNIFORM PRELIMINARY TEST IVB, 1989

SEED SIZE (g/100)

Strain	Mean 8 Tests	Carbon dale IL	Urbana IL	Man- hattan KS	Lexing ton KY	Queens town MD	Portage ville MO	MT. Orab OH	S.Charle ston OH
FLYER (E)	15.2	12.8	16.0	16.7	15.6	15.3	13.0	16.9	15.5
PENNYRILE (L)	16.7	16.1	15.4	16.6	18.8	18.6	15.5	17.8	14.8
SPENCER (IV)	18.4	16.9	19.2	20.1	16.7	18.6	15.2	21.7	18.8
C1755	16.4	16.7	15.1	17.9	18.8	17.2	14.3	17.2	14.3
C1758	19.4	17.2	18.4	21.2	22.4	20.8	16.1	20.3	19.0
C1766	17.0	17.0	15.7	17.0	19.3	18.7	14.9	18.4	14.7
C1767	22.0	20.3	21.0	25.1	24.6	22.5	19.1	22.5	21.1
C1768	19.5	18.5	19.8	21.0	22.0	19.2	17.5	20.5	17.4
C1770	19.3	18.5	19.4	20.0	20.8	21.1	16.8	19.3	18.6
C1771	20.7	19.0	21.6	22.8	22.0	21.2	19.0	20.0	20.0
HC85-5097	15.8	12.8	17.1	18.0	15.9	16.4	14.2	15.6	16.3
HC85-5148	19.3	15.5	20.1	20.6	22.1	19.4	15.6	21.0	20.0
RIPLEY (dt)	14.3	15.2	13.9	15.3	15.7	12.7	12.4	14.7	14.2
C1778	17.8	17.1	18.6	18.6	19.6	17.3	14.6	18.4	18.1
C1779	16.9	14.7	16.9	17.8	18.9	17.7	13.7	17.6	17.6
C1780	17.0	16.1	18.5	18.1	18.1	16.3	14.1	17.9	16.8
C1781	15.4	15.4	16.8	17.0	15.8	15.4	12.9	14.7	15.4
C1783	14.5	12.7	15.5	15.7	15.6	13.3	13.5	15.2	14.4
HC84-2201	17.4	16.0	18.9	20.6	17.7	16.2	15.2	17.1	17.2
HC85-275	16.7	14.3	19.2	17.6	17.5	15.0	14.6	17.1	18.1
HC85-279	18.0	15.2	20.1	20.0	18.6	16.4	15.3	19.4	19.0
HC85-602	16.5	13.5	18.3	19.7	16.6	14.7	13.4	17.4	18.0
HC85-1554	18.7	16.6	19.0	22.0	20.1	17.4	15.0	19.4	19.9
HC85-1693	13.3	13.4	14.2	13.9	14.5	11.8	11.1	13.4	13.8
HC85-2133	17.2	15.5	17.8	19.0	18.4	16.9	13.9	18.0	18.4
HC85-6484	15.1	16.3	15.8	16.6	15.3	14.1	12.1	15.5	15.4
HC85-6551	16.4	14.3	16.7	18.0	17.9	16.1	14.5	16.3	17.3
HC86-4863	17.4	14.8	19.1	19.0	18.6	15.5	14.1	19.0	19.3
KY85-09073	16.4	16.9	15.2	16.1	18.9	16.0	14.3	17.2	16.2

UNIFORM PRELIMINARY TEST IVB, 1989

PROTEIN (%)

Strain	Mean 3 Tests	Manhattan KS	Lexington KY	MT. Orab OH
FLYER (E)	41.2	41.0	40.6	42.1
PENNYRILE (L)	41.8	41.1	42.4	41.8
SPENCER (IV)	40.6	40.7	40.2	40.9
C1755	41.3	40.7	42.0	41.1
C1758	41.8	41.5	41.2	42.7
C1766	39.7	38.9	41.0	39.2
C1767	41.2	41.1	41.3	41.1
C1768	41.4	40.2	42.5	41.4
C1770	41.2	39.7	42.4	41.5
C1771	39.7	39.9	38.9	40.2
HC85-5097	38.8	39.5	39.8	37.1
HC85-5148	40.2	40.7	39.8	40.1
RIPLEY (dt)	38.2	37.4	38.0	39.2
C1778	39.8	38.6	39.7	41.2
C1779	40.2	38.6	41.0	40.9
C1780	38.9	37.6	38.7	40.3
C1781	39.4	38.3	39.6	40.3
C1783	40.6	39.8	40.0	42.0
HC84-2201	41.3	41.5	41.2	41.3
HC85-275	40.4	40.1	39.8	41.2
HC85-279	39.9	39.8	39.8	40.1
HC85-602	40.1	39.8	39.7	40.9
HC85-1554	39.3	38.8	39.2	39.8
HC85-1693	39.6	38.4	40.7	39.7
HC85-2133	41.2	40.0	42.0	41.6
HC85-6484	39.7	38.4	40.8	40.0
HC85-6551	41.1	39.9	41.4	42.1
HC86-4863	41.3	41.8	41.0	41.2
KY85-09073	40.3	39.5	41.0	40.4

UNIFORM PRELIMINARY TEST IVB, 1989

OIL (%)

Strain	Mean 3 Tests	Manhattan KS	Lexington KY	MT. Orab OH
FLYER (E)	20.6	20.6	21.3	19.8
PENNYRILE (L)	20.3	20.6	20.6	19.6
SPENCER (IV)	20.5	20.6	20.9	20.1
C1755	21.0	21.2	21.8	20.0
C1758	20.3	20.5	21.5	18.8
C1766	20.3	20.1	20.9	19.8
C1767	20.8	21.2	21.6	19.6
C1768	20.4	20.8	20.7	19.8
C1770	20.7	21.2	21.2	19.6
C1771	21.1	21.2	22.0	20.0
HC85-5097	21.1	20.6	21.3	21.4
HC85-5148	21.8	21.5	22.7	21.2
RIPLEY (dt)	20.7	21.2	21.3	19.5
C1778	21.4	21.8	21.9	20.5
C1779	21.2	21.8	21.1	20.6
C1780	21.6	21.9	22.5	20.4
C1781	21.5	21.6	22.2	20.8
C1783	21.0	21.0	21.9	20.1
HC84-2201	21.0	21.0	21.6	20.5
HC85-275	21.5	21.7	22.1	20.7
HC85-279	21.1	21.3	21.4	20.7
HC85-602	21.7	21.7	21.6	21.7
HC85-1554	22.5	22.5	23.1	21.9
HC85-1693	19.9	20.2	20.7	18.9
HC85-2133	20.6	20.7	20.8	20.4
HC85-6484	21.5	21.6	22.5	20.5
HC85-6551	21.8	22.3	22.3	20.9
HC86-4863	21.3	21.1	21.6	21.2
KY85-09073	21.2	21.5	21.4	20.7