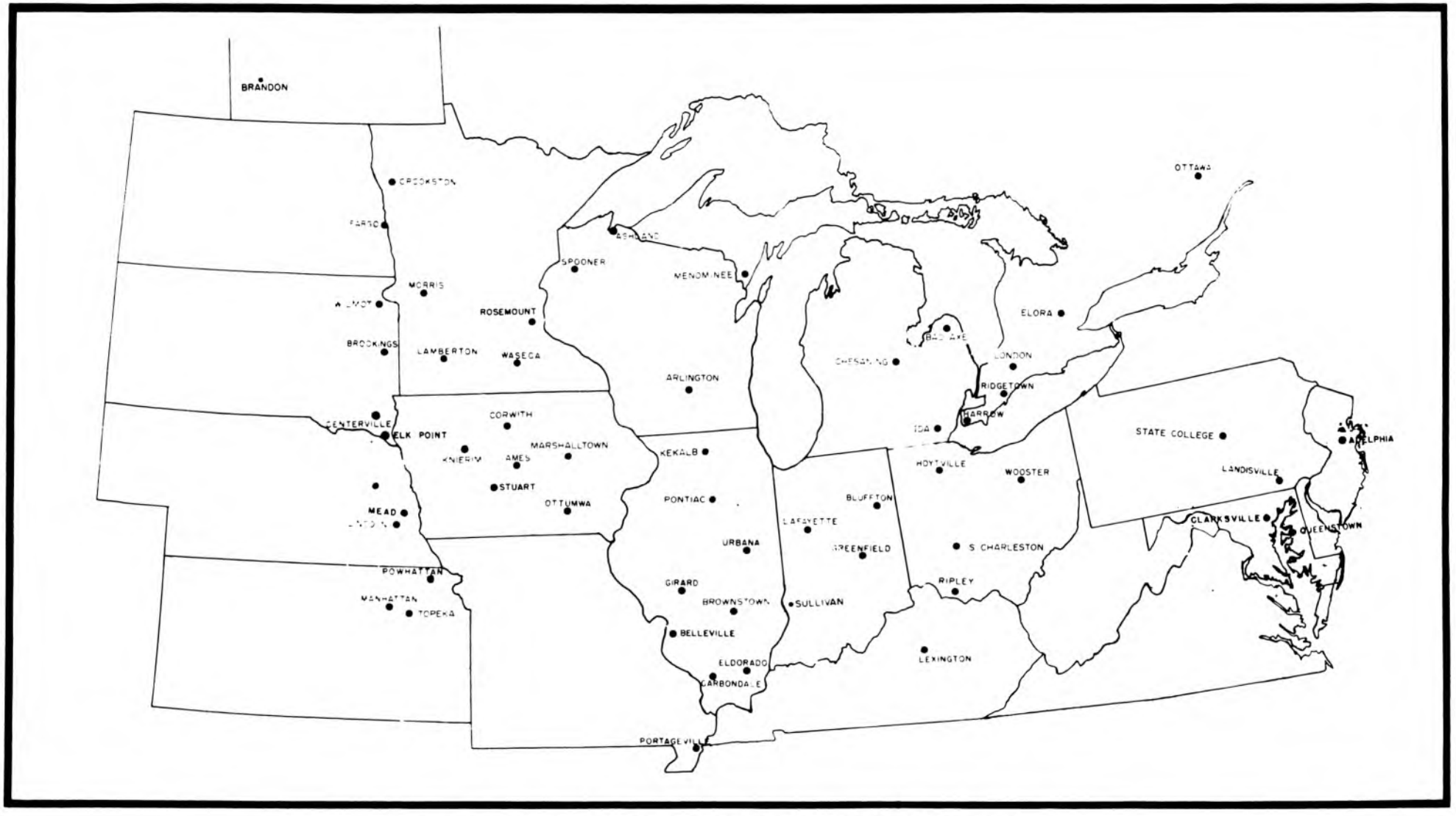

LOCATIONS OF UNIFORM SOYBEAN TESTS, NORTHERN STATES, 1983

p. 151 A86-301024 $\bar{x}$ Yld. = 57.3

p. 166 L83-3985 $\bar{x}$ Rnk = 21

THE UNIFORM SOYBEAN TESTS

NORTHERN STATES

1987

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INTRODUCTION

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

A test is established for each of ten maturity groups. Uniform Test 00 includes maturity Group 00 strains for the northern fringe of the present area of soybean production. Uniform Tests 0 through IV include later strains adapted to locations progressively further south in the North Central States and areas of similar latitude. Each year new selections are added and others that have been sufficiently tested are dropped. The summary of performance of strains in Uniform Tests 00 through IV in the northern states is included in this report. The report on Uniform Tests IVS through VIII in the southern states is issued separately.

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

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

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

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

STRAIN DESIGNATION

Experimental (i.e., unreleased) strains are identified by a number with a state or province code letter prefix. The code letters have been agreed upon in meetings of experimental station agronomists cooperating with the U.S. Department of Agriculture.

A	Iowa A.E.S.
Ar	Arizona A.E.S.
Au	Alabama A.E.S.
B	California
C	Purdue (Indiana) A.E.S.
CM	Canada Dept. of Agriculture, Morden, Manitoba
D	Mississippi A.E.S.
E	Michigan A.E.S.
F	Florida A.E.S.
FC	Forge and Range Research Branch, U.S.D.A.
Ga	Georgia A.E.S.
H	Ohio A.R.D.C. (HC - R. L. Cooper, HW - A. K. Walker, HM - B. A. McBlain)
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.
O	Central Experimental Farm, Ottawa, Ontario
OX	Research Station, Harrow, Ontario
OAC	University of Guelph, Guelph, Ontario
Ok	Oklahoma A.E.S.
PI	Plant Inventory
R	Arkansas A.E.S.
S	Missouri A.E.S.
SC	South Carolina A.E.S.
SD	South Dakota A.E.S.
SL	Two or more states cooperatively
Ts	Texas A.E.S.
T	Soybean Genetic Type Collection, U.S.D.A., Urbana, IL
U	Nebraska A.E.S.
UD	Delaware A.E.S.
UM	University of Manitoba, Winnipeg, Manitoba
UT	Tennessee A.E.S.
V	Virginia A.E.S.
W	Wisconsin A.E.S.

METHODS

Uniform Tests are planted in multiple row plots with three or four replications and the center rows are harvested. Preliminary Tests are multiple row plots (the center rows harvested) with two replications. Usually 15 to 20 feet of row are planted and 12 to 16 feet harvested, to eliminate end-of-row effects. At the Soybean Workers Conference in Memphis, Tennessee on February 24 and 25, 1976, the Northern Breeders discussed and made the following recommendation: Only data from bordered row plots will be included in the regional means. Yield means will not be included in regional means if they do not have a CV value. Discretion will be used when including values that have a high CV. If the CV value is high (greater than 15), participants should include the reason, such as disease or environmental conditions. Lines will be allowed to be heterogeneous the first year in the Uniform tests but must be a pure line the second year of testing. 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	Dawson	-5 to +3	McCall (00)	Sibley (I)
I	Sibley	-4 to +4	Dawson (0)	Elgin 87 (II)
II	Elgin 87	-4 to +4	Hardin (I)	Zane (III)
III	Harper 87	-4 to +4	Century 84 (II)	HM8469 (IV)
IV	Morgan	-4 to +7	Chamberlain (III)	Stafford (IV)

These maturity group ranges are based on long-time means over many locations. When using data from other environments, the interval between reference varieties may vary, and the division between maturity groups should be estimated in proportion to the above figures.

Lodging is rated at maturity according to the following scores:

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

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 sample submitted to the Northern Regional Research Center, Peoria, Illinois. A 50-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 ≥ 85%
2 + 70 - 84%
3 = 45 - 69%
4 = 20 - 44%
5 = 0 - 19%

DISEASE

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

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

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

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

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

Tolerance rating categories for Phytophthora were as follows: 1=no dead plants and no stunting; 2=no dead plants and slight stunting or few dead plants and no stunting; 3=few dead plants and moderate stunting or several dead plants and slight stunting; 4=up to 50% dead plants and moderate stunting; 5=over 50% dead plants and severe stunting.

Reference Varieties

Amcor	3.1
Zane	3.1
Pella	2.8
AS3127	3.0
Harosoy	4.5
Elgin	3.4
Hoyt	4.0
Harper	3.3
Ripley	2.6

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 inibibe water.

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

POLICY ON TESTING AND RELEASE OF STRAINS

This policy on testing and release of soybean strains evaluated in the Uniform Soybean Tests, Northern States, has been agreed upon by public soybean breeders. The policy was developed to assist breeders in preparing schedules for seed increases and to assist individuals and committees responsible for approving releases. The policy will aid private breeders in the U.S. and in foreign countries to understand how releases will be made that may affect their programs.

Development and release of soybean strains is carried out by many public institutions. The programs at these institutions operate independently until strains are available for advanced testing in the Uniform Soybean Tests. The Uniform Soybean Tests are coordinated by the Agricultural Research Service, U.S. Department of Agriculture. The tests are divided into those in the Northern States, for strains in maturity groups 00 to IV, and those in the Southern States, for strains in maturity groups 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 more replications than the PT. Lines developed by four or more backcrosses to a released cultivar may be entered directly in the UT without prior evaluation in the PT.

Strains may be considered for release after they have been evaluated for two years in the UT. Exceptions to this are special purpose strains or strains derived from four or more backcrosses to a released cultivar; these may be considered for release after one year in the UT. Consideration for release of any strains in the UT may be requested by any institution or breeder participating in the Uniform Soybean Tests, however it is generally initiated by the institution that developed the strain.

A strain should be released only if it is distinctly superior to existing varieties in one or more characteristics important for the crop, or it is superior in overall performance in areas where adapted. A single major production hazard which a new cultivar can overcome, e.g., a highly destructive disease, may become the overriding consideration in releasing a variety. Strains with a very limited range in adaptation should not be released unless performance in that limited range is outstandingly superior, or the strain possesses important use values not otherwise available, including diversification of the germplasm base for the species.

Where a decision has been made to multiply a strain for release, the originating institution will inform other UT participants of the decision by February 15. This will give each UT participant the opportunity to participate in the multiplication and release of the strains. By March 15 all institutions intending

to participate in the multiplication of the strain must notify the originating institution of their intent. A final decision to participate in the release of the strain may be delayed until an additional year's data are available for review. By April 1 the originating institution should notify all UT participants what states will be participating in the multiplication and are considering participating in the release of the strain. Breeders seed is distributed to foundation seed organizations in participating states for production during the summer. At this time, if a final decision to release has been made, a sample of seed may be distributed to non-participants in the UT, including private soybean breeders, in accordance with a states experiment station policy, for use in making crosses. 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 1987

Variety	Experimental Designation	Uniform Test Evaluations
Cartter*	L80-3049	UT III 1984, PT IIIB 1983
Elgin 87	A Elgin BC	UT II 1985-1987, UT I 1987 PT I 1987
Glenwood	M74-12	UT O 1985-1987
Haroson	OX-Hodgson 1cHm	PT I 1986
Harper 87	A Harper BC	UT III 1985-1987, PT III 1987
Hobbit 87	HC Hobbit BC	UT III 1986-1987, PT IIIB 1987
Pella 86*	AHW-Pella BC	UT III 1985-1986
Resnik	HM8471	UT III 1986-1987, PT IIIA 1985
Sherman*	HW8067	UT III 1982-1984, PT IIIB 1981
Sprite 87	HC Sprite BC	UT III 1986

Variety	Release Date	Releasing States	Foundation Seed Production
Cartter*	August, 1986	IA, IL, IN	1986
Elgin 87	August 15, 1987	IA, IL, MI, OH, Ont. SD, WI	1987
Glenwood	February 15, 1987	MN, SD, WI	1986
Haroson	August 5, 1987	Ont.	1987
Harper 87	August 15, 1987	IA, IL, IN, KS, MO, NE, OH	1987
Hobbit 87	October 1, 1987	IA, IL, IN, MO, NE, OH	1987
Pella 86*	August, 1986	IA, IL, IN, KY, NE, OH	1986
Resnik	September 1, 1987	IL, IN, KS, MD, MO, OH	1987
Sherman*	September 1, 1985	IL, IN, KS, KY, MO, OH	1985
Sprite 87	October 1, 1987	OH	1987

* Not listed previously.

UNIFORM TEST LOCATIONS - 1987

Location		Conducted by	Uniform Tests						Preliminary Tests			
			00	0	I	II	III	IV	I	II	III	IV
IA	Ames	W.R. Fehr			X	X	X		X	X	X	
	Cedar	W.R. Fehr					X				X	
	Corwith	W.R. Fehr			X				X			
	Halbur	W.R. Fehr				X						
	Humeston	W.R. Fehr					X					
	Marshalltown	W.R. Fehr				X				X		
	Nashua	W.R. Fehr			X							
	Spencer	W.R. Fehr			X				X			
	Stuart	W.R. Fehr					X				X	
IL	Belleville	R.L. Bernard						X				
	Carbondale	M. Schmidt						X				X
	Dekalb	C.D. Nickell				X						
	Eldorado	R.L. Bernard					X	X				X
	Pontiac	C.D. Nickell				X						
	Urbana	C.D. Nickell				X	X			X	X	
IN	Bluffton	J.R. Wilcox				X	X					
	Lafayette	J.R. Wilcox			X	X	X	X		X	X	
	Vincennes	J.R. Wilcox					X	X				X
KS	Manhattan	W.T. Schapaugh					X	X			X	X
	Topeka	W.T. Schapaugh					X					
	Powhattan	W.T. Schapaugh					X	X				
KY	Lexington	T. Pfeiffer					X	X				X
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									
	Lamberton	J.H. Orf			X	X			X			
	Moorhead	J.H. Orf	X									
	Morris	J.H. Orf	X	X								
	Rosemount	J.H. Orf		X								
	Waseca	J.H. Orf			X	X			X			
MO	Columbia	H. Minor					X	X				
	Portageville(Loam)	S.C. Anand						X				
	Portageville(Clay)	S.C. Anand						X				

UNIFORM TEST LOCATIONS - 1987

Location		Conducted by	Uniform Tests						Preliminary Tests			
			00	0	I	II	III	IV	I	II	III	IV
NE	Lincoln	J.E. Spect						X				
	Mead	J.E. Spect			X	X	X			X	X	
NJ	Adelphia	J.R. Justin				X				X		
ND	Casselton	T. Helms	X	X								
OH	Hoytville	B.A. McBlain				X	X			X	X	
	Ripley	S. St. Martin					X	X				X
	S. Charleston	R.L. Cooper					X	X			X	X
	Wooster	B.A. McBlain				X	X					
ONT	Elora	W.D. Beversdorf	X									
	Harrow	R.I. Buzzell				X	X					
	London	W.D. Beversdorf			X							
	Ottawa	H.D. Voldeng	X									
	Ridgetown	G.R. Ablett			X	X			X			
	Smithfield	H.D. Voldeng		X								
	Woodstock	W.D. Beversdorf		X								
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				
No.	Location with agronomic Data (X)		8	8	15	22	22	18	8	10	8	8
No.	With seed composition Data (X)		5	5	5	5	5	5	5	5	5	5

1987 DISEASE, SHATTERING, AND DESRIPTIVE DATA

Location		Tests Conducted by	Tests	U. T.	P. T
IA	Ames	J. Dunleavy	BTS	00- IV	-
	Ames	W. R. Fehr	Iron Chlorosis	00-III	I-III
	Ames	W. R. Fehr	Emergence	00-III	-
	Ames	H. Tachibana	BSR	I-III	I-III
	Ames	H. Tachibana	PR_4	I-III	I-III
IL	Eldorado	R. L. Bernard	Shattering, Mottling	III-IV	IV
	Belleville	R. L. Bernard	Shattering	IV	
	Urbana	C. D. Nickell	BP	III	II-III
IN	Lafayette	T. S. Abney & T. L. Richards	PS, PSB, SMV	00-IV	I-IV
KS	Manhattan	W. T. Schapaugh, JR.	Shattering	00-IV	I-IV
MN	Lamberton	J. H. Orf	Iron Chlorosis	00-IV	I
OH	Vickery	A. F. Schmitthenner	PR Tolerance	II-IV	II-IV
PA	Landisville	J. O. Yocum	Shattering	III	
TX	Lubbock	R. D. Brigham	Shattering	IV	
PA	Orange	D. E. Starner	PS, Mottling	IV	

IDENTIFICATION OF PARENT STRAINS

Strain	Parentage
A1	Anoka X Mack
A2	M63-17 X C1453
A72-507	Amsoy X Wayne
A72-512	Amsoy X Wayne
A73-21030	L65-1342 X IVR EX4311
A74-204034	M62-263 X Amsoy-326
A74-305031	Corsoy X Williams
A75-204018	IVR EX4731 X Wirth
A75-305022	Wye X (Amsoy X Wayne)
A75-332035	L15 X AP68-1016
A76-202015	AP6
A76-304020	(Beeson X AP68-1016) X (L15 X Calland)
A77-112008	Washington X A72-512
A77-314013	A73-21030 X Williams
A78-121014	Pride B216 X Hodgson
A78-123018	Pride B216 X Hodgson
A78-227015	Pride B216 X AX901-40-2
A78-227016	Pride B216 X AX901-40-2
A79-135010	Pride B216 X Cumberland
A79-236002	Pride B216 X Cumberland
A79-331022	AX913-5 X Oakland
A79-334010	Pride B216 X Land O'Lakes 4102
A80-149008	C1532 X 1YT-75-206013
A80-244003	Northrup King S1492 X Pella
A80-244036	A74-204034 X Cumberland
A80-245022	Northrup King S1492 X Weber
A80-247007	A75-204018 X Weber
A80-344003	A75-332035 X Century
A80-349006	Fehr
A81-156013	Fehr
A81-156017	L69U40-16-4 X A76-304020
A81-356022	Century X A76-304020
Agripro 1120	Unknown
Amsoy 71 dt	Determinate Amsoy 71, M2 from EMS treatment
Amurskaja 41	Gritton
AP6	40 lines intermated
AP68-1016	Clark (5) X PI 84.946-2
AP68-1022	Clark (5) X PI 84.946-2
AP68-1119	Clark (4) X PI 84.946-2
AP68-1216	Clark (4) X PT 84.946-2
Asgrow A1564	Hark X C1453
Asgrow A1937	Unknown
Asgrow A2656	M60-406 X W35-184
Asgrow A3127	Williams X Essex
AX739	AP68-1216 X AP68-1016
AX751	Beeson X AP68-1119
AX901-40-2	Beeson X AP68-1022
AX913-5	L15 X AP68-1016
BD22115-13	(Amsoy X Portage) X 840-7-3
C1070	Lincoln X Ogden
C1079	Lincoln X Ogden
C1223	C1070 X Adams
C1253	Blackhawk X Harosoy

IDENTIFICATION OF PARENT STRAINS

Strain	Parentage
L62-361	Harosoy (6) X T117; Dt2 isoline
L62-535	Harosoy (6) X T145; dt1 isoline
L62-1926	Clark (6) X PI 86.024; e2 isoline
L63-0007	Harosoy (2) X PI 84.946-2; BSR resistant
L65-1342	Wayne (2) X L62-1926
L66-531	[Clark (6) X PI 86.024] X [Clark (6) X T175]; dt1, E1, t e2 isoline
L66-1322	(Sel. from Hawkeye X Lee) X (Sel. from Hawkeye X Lee)
L66L-154	Wayne X L57-0034
L68-0376	Clark (2) X PI 84.946-2; BSR resistant
L68-4106	[L15 (5) X L11] X [Wayne (10) X Kanrich]; r, Rps1, Rpm isoline
L69-5343	L12 (6) X Hawkeye = Clark-I r Im Rps1 rxp
L69L-3	L66-531 X L62-535
L69U37-17-5	Calland X Corsoy
L69U40-16-4	Calland X Amsoy
L69U40-19-1	Calland X Amsoy
L70-2283	Custer X Chippewa
L70T-543G	L15 X Amsoy 71
L71-3628	L66-1322 X L62-535
L72U-2567	Williams X Ransom
L73-318	Williams (2) X L69-5343
L73-4124	D66-12392 X L69L-3
L73-4673	Corsoy X L66L-154
L73-6536	L12 X Custer
L73-6626	R62-659 X L66-531
L74D-634	Williams X Ransom
L74D-674	Amsoy 71 X Ransom
L74U-495	Cooper
L75-3632	Corsoy (6) X Lee 68; Rps1-c isoline
L75-8020	Williams X L70-2283
L76-0022	Williams (4) X Kosamame (PI 171.451)
L76-0038	Williams X Kosamame (PI 171.451)
L77-443	Union X L75-8020
L78-4245	L68-4106 X L68-0376
L77-1836	Williams (7) X Harrel; Rps1-b
L78-189	Corsoy (8) X Kingwa; Rps1-k isoline
L78-0376	Clark (2) X PI 84.946-2
L78-1491	Williams (2) X PI 88.788
L78-4054	Williams X PI 90.138
L78-4094	Beeson X L68-0376
L78-8694	L71-3628 X E1f
L78-9069	L73-4124 X E1f
L78L-449	L73-4124 X Essex
L78L-688	L73-6626 X Essex
L79-3910	Union X L75-8020
L80-4349	Williams (2) X PI 88.788
Land O'Lakes 4102	Unknown
Land O'Lakes Max	Unknown
LN78-1136	Fehr
LN78-2714	Evans X K1028
LN80-8309	A76-304020 X Land O'Lakes Max
LN80-9447	Weber X A76-202015

IDENTIFICATION OF PARENT STRAINS

Strain	Parentage
LN80-9452	Weber X A76-202015
LN80-9479	Weber X A76-202015
M10	Lincoln (2) X Richland
M53-43	M10 X PI 180.501
M53-117	M10 X PI 180.501
M54-12	Renville X Capital
M54-110	Harosoy X Norchief
M54-139	Renville X Capital
M54-240	Korean X [Lincoln (2) X Richland]
M59-120	M54-240 X M54-139
M60-406	Blackhawk X Harosoy
M61-224	Merit X Harosoy
M62-93	Merit X M54-110
M62-101	Merit X M54-110
M62-263	Grant X M319W
M62-275	Norchief X Harosoy
M62-345	M319W X Harosoy
M63-17	M405 X M406
M63-87	Chippewa 64 X PI 261.475 (Shika No. 1)
M63-194	Corsoy X PI 132.207
M63-217Y	Corsoy X M53-117
M64-157	Merit X Amsoy
M65-69	M54-12 X Corsoy
M65-442	Anoka X Amsoy
M67-141	Corsoy X Wayne
M68-2	Wilkin X M59-120
M68-37	Evans X M59-120
M68-49	Evans X M59-120
M68-49-26	Evans X M59-120
M68-99	M59-120 X Amsoy 71
M68-213	M62-101 X Steele
M68-256	Evans X Steele
M70-127	Evans X M63-217Y
M70-153	Steele X Hodgson
M70-187	Merit X SS65-5702
M70-260	M62-93 X M63-217Y
M70-294	JA 53-7-6 X M63-217Y
M70-484	M63-87 X M53-43
M70-597	Steele X AP68-1016
M71-25	Clay X Evans
M71-38	Wilkin X M62-263
M71-39	Wilkin X M62-275
M71-52	Evans X M62-345
M71-65	Steele X M63-194
M71-80	Merit X M62-263
M71-148	Clay X Evans
M72-3	Evans X Hodgson
M72-24	Evans X Wells
M72-124	ML7293-4 X Wells
M72-127	Evans X Unknown
M73-37	Evans X XK505
M73-62	M61-224 X Nagyszemi Feher
M73-105	M68-49 X Clay

IDENTIFICATION OF PARENT STRAINS

Strain	Parentage
C1266R	Harosoy X C1079
C1317	C1223 (8) X Mukden
C1453	C1266R X C1253
C1430	C1253 X Kent
C1532	L63-0007 X Amsoy 71
C1590	Beeson X CX407BC (7)-255
CX407BC (7)-255	Amsoy (8) X C1253
D49-2525	S-100 X CNS
D49-2573	Roanoke X N45-745
D53-184	D49-2525 X L6-5679
D63-6100	Hill (4) X PI 171.442
D64-4731	Lee (2) X [Clark (2) X T109]
D66-12392	D63-6100 X Dyer
DO-9-2-1-2	Voldeng
Dortchsoy 110	Ogden X Wabash
H74-1773	Cooper
H7847	Evans X Williams
HC74-3386	Cooper
HC74-3400	Williams X Ransom
HC75-5605	Woodworth X V68-1034
HC76-4030	L72U-2567 X Essex
HC78-353	L72U-2567 X Essex
HW74-678	Amsoy 71 X Ransom
HW75-5605	Woodworth X V68-1034
HW79015	A72-512 X Oakland
HW79022	Woodworth X L60-347-1-60-2B (OX720-26)
HW79116	Cumberland X Pella
HW79149	[A72-507 (6) X A1] X [A72-507 (5) X PI 82.263-2]
IVR EX4311	Hark X Wayne
IVR EX4731	Amsoy X Wayne
IVR EX1120	Provar X (Amsoy X PI 91.110-1)
J22	PI 81.042 X Arksoy 2913
J74-5	Unknown
JA53-7-6	Line from Chinese commercial variety
Jacques J103	Unknown
K74-104-76-205	Williams X Tracy
K74-113-76-486	Tracy X Pomona
K1028	Williams X Calland
K1035	Williams X Calland
K1046	Tracy X Williams
K1062	Tracy X Williams
L6-5679	Lincoln X Richland
L11	[Clark (6) X T201] X [Clark (6) X T145]; I r isoline
L12	[(Clark (8) X CNS) X (Clark (8) X Blackhawk)] X [(Clark (6) X T201) X (Clark (6) X T145)]; I r Rps1 rxp isoline
L15	Wayne (6) X Clark 63; Rps1 isoline
L24	Williams (7) X Kingwa (composite of 6 lines)
L27	Corsoy (8) X Kingwa; Rps1-k isoline
L46-1741-I	Lincoln (2) X Richland
L46-1743-I	Lincoln (2) X Richland
L57-0034	Clark X Adams
L60-347-1-60-2B	Harosoy X Higan

IDENTIFICATION OF PARENT STRAINS

Strain	Parentage
M73-129	M68-49 X Hodgson
M74-23	M68-2 X Hodgson
M74-38	M68-49 X Hodgson
M74-69	M68-256 X Hodgson
M74-155	Evans X M65-442
M74-160	Pike X M64-157
M74-227	M68-49 X M63-194
M74-270	M65-69 X M68-99
M74-359	M70-187 X Altona
M74-394	Hodgson X Wells
M74-417	NAPB IVR1235 X 554-8
M75-2	Hodgson X [M67-141 X (Chippewa X Higan)]
M75-48	Wilkin X M65-442
M75-131	M68-37 X S1244
M319W	Lincoln X Hawkeye
M405	Capital X Renville
M406	Harosoy X Norchief
Md71-583	(York X Mukden) X (Delmar X D64-4731)
Midwest Oilseeds 2050	Unknown
Midwest Oilseeds 3010	Unknown
ML7293-4	Merit X Lee
N45-745	Ogden X CNS
N45-1497	Ralsoy X Ogden
NAPB IVR1235	Blend of 4 IVR EX1120 : 1 Steele
Northrup King S1346	~~Unknown~~ AS-5629-4 x PI 257435
Northrup King S1492	Corsoy X Wayne
0877	(Clark X Chippewa 64) X Corsoy
Peterson 85	Provar X [Amsoy X PI 248.404 (Novosodska Bola)]
Peterson 1677	Unknown
Pride B216	Corsoy X Wayne
AS-5629-4	Roanoke x Hawkeye

UNIFORM TEST 00, 1987

Strain	Parentage	Previous* Testing	Generation Composited
Clay (0)	Renville X Capital	10	F5
Maple Ridge	Fiskeby III X Evans	7	F5
McCall (00)	(Acme X Chippewa) X Hark	14	F5
M83-3	McCall X Maple Presto	-	F4
ND861	Wilkin X L62-361	-	F5
ND863	Wilkin X L62-361	-	F5
ND864	Wilkin X L62-361	-	F5
ND865	Wilkin X L62-361	-	F5
ND866	Wilkin X L62-361	-	F5
ND867	Wilkin X L62-361	-	F5
ND868	Wilkin X L62-361	-	F5
OT84-12 Maple Glen	BD21115-13 X Premier	1	F5
OT85-5	Evans (4)e3 X 840-7-3	-	F4
OT86-1	Coles X DO-9-2-1-2	-	F5
OT86-9	[Evans (2) X 840-7-3] X Harosoy e3	-	

* Number of years in test or name of 1986 test.

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code		Chlorosis Score Ames	Chlorosis Score Lamberton	Emerg. Score Ames	Shatter Score Manhatten	BTS Ames a Score	PS Lafayette a %	PSB Lafayette n %	SMV Lafayette a Score
Clay (0)	PGBDYY	I	2.0	3.0	2	1	4	15	40	5E
Maple Ridge	PTBSYY	I	1.8	3.0	1	2	3	0	76	5E
McCall (00)	PGTDYY	I	2.2	3.0	1	1	4	7	68	5M
M83-3	PGTDYY	I	3.3	3.0	2	1	3	3	64	5M
ND861	WGBSYY	I	1.8	3.0	1	1	3	3	80	5M
ND863	WGBSYY	I	1.7	3.0	1	2	3	9	52	1
ND864	PGBDYY	I	1.5	2.0	1	3	3	1	62	3M
ND865	WGBSYY	I	1.7	3.0	1	1	3	2	80	4E
ND866	WGBSYY	I	1.5	4.0	1	2	3	3	74	4M
ND867	PGBDYIb	I	1.8	3.0	2	3	3	0	46	3M
ND868	PGBDYIb	I	1.8	3.0	1	3	3	15	22	2M
OT84-12	PTBDYY	I	3.8	4.0	1	2	2	12	68	4E
OT85-5	WGBDYY+Bf	I	2.2	3.0	1	3	3	13	40	2M
OT86-1	WGBDYY	I	1.7	4.0	1	3	3	2	62	1
OT86-9	P+WTBDYBf	I	3.3	3.0	1	1	3	3	90	5E

UNIFORM TEST 00, 1987

Regional Summary

No. of Tests Strain	Yield 8 bu/a	Rank 8 No.	Maturity 8 date	Lodging 8 score	Plant Height 8 in.	Seed Quality 8 score	Seed Size 8 g/100	Composition Protein 5 %	 Oil 5 %
Clay (0)	34.5	8	+6.1	2.0	31	1.9	15.5	39.9	19.9
Maple Ridge	34.4	9	-4.8	1.2	29	1.7	15.1	40.4	19.5
McCall (00)	35.5	5	9-10.0*	1.6	33	1.7	14.4	39.2	19.6
M83-3	33.6	10	+1.8	1.7	32	2.1	13.8	38.0	19.9
ND861	34.6	7	-2.8	1.2	29	1.7	14.8	40.5	19.7
ND863	32.4	12	-0.6	1.2	29	1.7	14.7	38.6	20.2
ND864	32.4	12	+0.3	1.4	32	1.9	17.6	38.8	20.4
ND865	31.2	15	-3.8	1.3	25	2.1	15.5	39.5	20.2
ND866	34.9	6	+1.8	1.3	29	1.8	15.4	38.5	20.2
ND867	32.4	12	+1.0	1.5	34	2.1	18.1	38.8	20.4
ND868	33.6	10	+0.4	1.5	34	1.9	17.9	38.8	20.9
OT84-12 *Maple Glen*	41.5	1	+4.8	1.5	33	2.1	17.8	39.5	20.7
OT85-5	38.6	2	-0.3	1.3	33	1.9	16.5	38.7	20.8
OT86-1	37.3	4	-1.8	1.9	34	1.9	14.1	39.4	20.4
OT86-9	38.3	3	+2.0	2.0	38	2.6	15.7	37.9	20.3

*108 days after planting.

1986-1987 2-YEAR MEAN

No. of Tests	16	16	15	16	16	15	16	10	10
Clay (0)	35.6	4	+5.9	2.0	30	1.8	15.4	40.6	19.4
Maple Ridge	36.4	3	-2.8	1.3	28	1.7	15.1	40.6	19.2
McCall (00)	37.2	2	9-13.0*	1.9	32	1.8	14.2	39.6	19.1
ND861	35.0	8	-4.2	1.2	27	1.8	14.6	41.0	19.0
ND863	35.4	5	-3.0	1.2	28	1.8	14.9	39.2	20.0
ND864	34.6	9	-1.4	1.4	31	1.8	17.4	39.8	20.0
ND865	32.1	10	-5.6	1.3	24	2.0	15.5	40.2	19.7
ND867	35.2	7	-0.4	1.6	33	2.0	18.1	39.7	20.1
ND868	35.3	6	-0.5	1.6	32	1.9	17.8	39.8	20.2
OT84-12	41.2	1	+5.4	1.8	32	2.1	17.7	40.5	30.0

*112 days after planting.

UNIFORM TEST 00, 1987
YIELD (bu/a)

Strain	Mean 8 Tests	Brandon Man.	Crookston MN	Moorhead MN	Morris MN	Casselton ND	Flora Ont.	Ottawa Ont.	Ashland WI
Clay (0)	34.5	37.8	34.9	33.1	30.1	37.9	41.2	41.1	19.6
Maple Ridge	34.4	50.1	31.4	25.4	35.8	33.8	43.4	39.0	16.3
McCall (00)	35.5	44.8	28.0	28.6	42.8	35.6	45.4	38.3	20.2
M83-3	33.6	41.2	31.0	27.7	34.8	35.3	45.0	39.9	13.7
ND861	34.6	48.2	35.6	27.3	29.2	38.8	41.0	39.2	17.8
ND863	32.4	46.7	36.0	27.4	25.6	33.7	34.0	39.0	16.5
ND864	32.4	39.6	33.0	27.6	27.4	34.0	41.8	37.5	18.2
ND865	31.2	42.8	35.4	27.2	19.6	33.4	37.8	40.4	13.2
ND866	34.9	46.8	37.5	33.6	26.4	34.2	41.9	40.0	18.7
ND867	32.4	36.9	33.0	27.0	28.7	33.1	41.8	39.3	19.0
ND868	33.6	42.0	31.6	27.2	36.3	37.2	39.4	37.0	17.7
OT84-12	41.5	51.8	37.7	36.9	47.7	38.8	49.7	47.4	21.7
OT85-5	38.6	56.7	37.3	34.5	34.1	40.0	46.9	41.5	17.5
OT86-1	37.3	54.9	32.7	31.9	35.3	38.7	43.3	40.3	21.2
OT86-9	38.3	50.9	31.5	33.0	46.9	37.2	50.0	42.3	18.3
C.V. (%)		7.7	9.1	13.8	17.4	8.2	7.2	8.0	16.5
L.S.D. (%)		5.0	4.4	6.9	9.7	4.7	4.3	4.5	5.0
Row sp. (in.)		9	12	28	10	30	15	16	24
Rows/plot		4	8	4	10	2	4	4	4
Reps		4	4	3	3	3	4	4	3

YIELD RANK

Clay (0)	8	14	7	4	9	5	11	4	4
Maple Ridge	9	5	13	15	5	12	6	11	13
McCall (00)	5	9	15	7	3	8	4	13	3
M83-3	10	12	14	8	7	9	5	8	14
ND861	7	6	5	11	10	2	12	10	9
ND863	12	8	4	10	14	13	15	11	12
ND864	12	13	8	9	12	11	9	14	8
ND865	15	10	6	12	15	14	14	5	15
ND866	6	7	2	3	13	10	8	7	6
ND867	12	15	8	14	11	15	9	9	5
ND868	10	11	11	12	4	6	13	15	10
OT84-12	1	3	1	1	1	2	2	1	1
OT85-5	2	1	3	2	8	1	3	3	11
OT86-1	4	2	10	6	6	4	7	6	2
OT86-9	3	4	12	5	2	6	1	2	7

UNIFORM TEST 00, 1987
MATURITY (date)

Strain	Mean 8 Tests	Brandon Man.	Crookston MN	Moorhead MN	Morris MN	Casselton ND	Flora Ont.	Ottawa Ont.	Ashland WI
Clay (0)	+6.1	+1	+7	+9	+7	+6	+4	+11	+4
Maple Ridge	-4.8	-9	-4	-4	-2	-6	-4	-9	0
McCall (00)	*9-10.0	9-27	9-7	8-25	9-1	9-3	9-6	9-17	9-26
M83-3	+1.8	+6	-4	-3	+5	+3	+4	-1	+4
ND861	-2.8	-6	-5	-4	-1	-3	0	-3	0
ND863	-0.6	-4	+2	-2	+1	0	0	-3	+1
ND864	+0.3	-2	+2	-2	+1	-1	+1	+2	+1
ND865	-3.8	-9	-3	0	-7	-5	-3	-4	+1
ND866	+1.8	-2	+4	+3	+2	+2	+1	+3	+1
ND867	+1.0	+1	+1	-1	+3	-1	+3	+1	+1
ND868	+0.4	0	-1	+1	-1	0	+2	0	+2
OT84-12	+4.8	-2	+11	+8	+5	+5	+1	+7	+3
OT85-5	-0.3	-5	+2	+1	+2	-1	0	-1	0
OT86-1	-1.8	-8	-3	0	+2	-2	-1	-2	0
OT86-9	+2.0	-4	+5	-1	+9	+2	+4	+1	0
Date planted	5-25	5-20	5-28	5-16	5-18	5-28	5-28	5-29	6-5
Days to mature	108	130	102	102	106	98	101	111	113

LODGING (score)

Clay (0)	2.0	3.5	1.5	2.3	2.0	1.3	2.9	1.3	1.0
Maple Ridge	1.2	1.5	1.3	1.0	1.0	1.0	2.0	1.0	1.0
McCall (00)	1.6	2.9	1.5	1.3	1.3	1.0	2.4	1.0	1.0
M83-3	1.7	4.0	1.0	1.0	1.7	1.3	2.3	1.1	1.0
ND861	1.2	1.3	1.0	1.3	1.0	1.3	1.8	1.0	1.0
ND863	1.2	2.2	1.0	1.3	1.0	1.0	1.1	1.0	1.0
ND864	1.4	2.3	1.0	1.7	1.0	1.0	1.8	1.0	1.0
ND865	1.3	1.7	1.0	2.0	1.0	1.0	1.6	1.0	1.0
ND866	1.3	2.0	1.0	1.3	1.0	1.3	1.9	1.0	1.0
ND867	1.5	3.3	1.0	1.7	1.0	1.0	1.9	1.0	1.0
ND868	1.5	2.8	1.3	1.7	1.0	1.0	2.3	1.0	1.0
OT84-12	1.5	2.5	1.5	1.7	1.0	1.0	2.1	1.3	1.0
OT85-5	1.3	1.5	1.3	1.0	1.0	1.0	2.5	1.2	1.0
OT86-1	1.9	3.1	1.5	2.0	1.3	1.3	2.9	1.7	1.0
OT86-9	2.0	2.2	1.5	2.0	2.0	1.3	3.8	2.0	1.3

UNIFORM TEST 00, 1987
PLANT HEIGHT (inches)

Strain	Mean 8 Tests	Brandon Man.	Crookston MN	Moorhead MN	Morris MN	Casselton ND	Flora Ont.	Ottawa Ont.	Ashland WI
Clay (0)	31	40	35	24	29	34	32	34	23
Maple Ridge	29	41	30	18	24	28	35	37	19
McCall (00)	33	48	37	19	31	33	36	36	20
M83-3	32	45	35	22	29	34	35	36	20
ND861	29	39	26	21	24	31	33	36	21
ND863	29	41	30	21	25	31	31	33	21
ND864	32	45	32	22	27	32	37	40	21
ND865	25	34	24	18	19	25	29	32	18
ND866	29	38	29	22	24	40	33	34	21
ND867	34	48	35	23	30	33	39	39	22
ND868	34	45	35	21	31	37	39	38	23
OT84-12	33	43	34	27	29	33	34	40	22
OT85-5	33	46	33	23	29	33	37	42	20
OT86-1	34	47	36	24	31	31	38	43	21
OT86-9	38	49	39	30	42	39	41	43	23

SEED QUALITY (score)

Clay (0)	1.9	3.0	2.0	2.0	2.7	1.5	1.5	1.5	1.0
Maple Ridge	1.7	1.0	2.0	2.0	2.3	2.0	1.5	1.7	1.0
McCall (00)	1.7	3.0	1.2	2.0	2.3	1.5	1.5	1.3	1.0
M83-3	2.1	3.0	2.5	2.3	2.3	2.0	1.5	2.0	1.0
ND861	1.7	1.0	1.8	2.3	2.7	2.0	1.5	1.1	1.0
ND863	1.7	2.0	1.8	2.3	2.7	1.3	1.5	1.0	1.0
ND864	1.9	2.0	2.0	2.7	2.7	2.0	1.5	1.5	1.0
ND865	2.1	3.0	2.5	3.0	2.3	2.5	1.5	1.3	1.0
ND866	1.8	2.0	2.2	2.3	2.0	2.5	1.5	1.0	1.0
ND867	2.1	4.0	3.0	2.3	2.3	2.0	1.5	1.0	1.0
ND868	1.9	2.0	2.8	3.3	2.3	1.5	1.5	1.0	1.0
OT84-12	2.1	3.0	2.0	2.0	2.0	3.5	1.5	1.7	1.0
OT85-5	1.9	2.0	2.0	2.7	2.7	1.5	1.5	1.5	1.0
OT86-1	1.9	2.0	2.0	2.3	2.7	2.5	1.5	1.0	1.0
OT86-9	2.6	3.0	2.8	3.0	3.0	3.5	2.5	1.9	1.0

UNIFORM TEST 00, 1987
SEED SIZE (g/100)

Strain	Mean 8 Tests	Brandon Man.	Crookston MN	Moorhead MN	Morris MN	Casselton ND	Flora Ont.	Ottawa Ont.	Ashland WI
Clay (0)	15.5	14.2	14.0	14.7	16.5	14.3	18.1	17.3	14.5
Maple Ridge	15.1	18.1	13.5	13.8	14.9	14.6	17.4	14.2	14.3
McCall (00)	14.4	16.7	11.0	13.5	12.9	14.2	17.1	14.4	15.3
M83-3	13.8	15.2	10.6	13.1	13.5	13.7	16.5	13.2	14.5
ND861	14.8	16.1	12.5	15.0	15.9	14.9	16.5	13.3	13.8
ND863	14.7	16.6	14.0	14.9	13.8	14.2	15.1	14.3	14.7
ND864	17.6	19.1	15.8	16.4	17.4	17.8	20.6	17.6	16.4
ND865	15.5	15.3	13.5	16.5	15.3	16.3	15.9	16.0	15.1
ND866	15.4	17.0	12.5	15.5	14.7	15.4	17.7	15.4	15.1
ND867	18.1	20.4	14.5	16.8	17.6	18.6	21.8	17.6	17.1
ND868	17.9	20.5	13.5	17.6	17.6	18.9	19.7	18.5	17.1
OT84-12	17.8	20.1	15.6	16.6	15.8	17.4	20.7	19.1	17.1
OT85-5	16.5	18.5	13.7	16.5	16.5	15.6	19.5	16.4	15.6
OT86-1	14.1	14.3	11.6	14.1	13.6	13.7	16.7	14.5	14.2
OT86-9	15.7	15.1	12.7	15.9	15.2	16.0	18.7	16.2	15.6

UNIFORM TEST 00, 1987
PROTEIN (%)

Strain	Mean 5 Tests	Crookston MN	Morris MN	Casselton ND	Elora Ont.	Ashland WI
Clay (0)	39.9	40.6	38.8	38.1	42.3	39.9
Maple Ridge	40.4	40.5	39.5	39.1	42.1	41.0
McCall (00)	39.2	39.3	37.1	37.9	41.3	40.4
M83-3	38.0	37.6	37.5	36.3	40.7	37.8
ND861	40.5	40.0	39.1	40.6	42.2	40.4
ND863	38.6	38.6	37.9	37.8	39.7	38.8
ND864	38.8	38.1	37.4	38.5	40.2	39.8
ND865	39.5	38.2	39.0	38.6	40.3	41.4
ND866	38.5	36.9	37.9	39.0	39.4	39.2
ND867	38.8	38.2	38.3	38.5	40.0	39.2
ND868	38.8	39.4	37.4	37.9	39.8	39.3
OT84-12	39.5	39.1	38.3	38.9	41.7	39.5
OT85-5	38.7	38.1	36.9	37.9	39.7	40.8
OT86-1	39.4	39.4	38.4	38.8	39.8	40.5
OT86-9	37.9	37.5	36.7	37.9	39.6	38.0

OIL (%)

Clay (0)	19.9	19.6	21.2	21.0	18.5	19.3
Maple Ridge	19.5	19.0	20.8	20.3	18.0	19.2
McCall (00)	19.6	18.6	21.1	20.3	17.9	19.9
M83-3	19.9	19.6	21.4	20.6	18.1	19.6
ND861	19.7	20.4	21.2	20.0	17.7	19.2
ND863	20.2	20.1	21.0	20.9	18.9	20.1
ND864	20.4	21.1	22.1	20.4	18.8	19.4
ND865	20.2	21.0	21.5	20.6	18.7	19.4
ND866	20.2	20.3	20.8	20.7	19.1	19.9
ND867	20.4	20.9	21.0	20.8	19.3	20.2
ND868	20.9	20.7	21.9	21.5	19.8	20.8
OT84-12	20.7	20.4	21.7	20.8	19.5	20.9
OT85-5	20.8	21.0	22.9	21.3	19.3	19.6
OT86-1	20.4	20.5	20.9	21.2	19.6	19.9
OT86-9	20.3	20.0	21.1	21.4	19.0	20.1

UNIFORM TEST O, 1987

Strain	Parentage	Previous* Testing	Generation Composited
Dawson (O)	Evans X M63-217Y	6	F5
Sibley (I)	M68-256 X Hodgson	-	F5
McCall (OO)	(Acme X Chippewa) X Hark	7	F5
M74-12 Glenwood	Evans X Peterson 85	2	F5
M81-18	Evans X M65-442	2	F5
M81-27	M68-49-26 X M70-294	2	F5
M82-317	M71-38 X M68-213	1	F5
M82-601	M70-484 X Vickery	1	F5
M82-996	M72-3 X Peterson 1677	1	F5
M82-1080	Evans X R 79	-	F4
M82-1011	M72-3 X Peterson 1677	1	F5
M83-16	A2 X Hodgson 78	-	F4
M83-58	M74-227 X M75-131	-	F4
M83-64	M74-227 X L78-189	-	F4
M83-91	Weber X M75-2	-	F4
M83-216	M71-25 X M71-65	-	F4
M83-223	M71-25 X M71-65	-	F4
M83-413	Evans X Simpson	-	F4
M83-442	M71-148 X O877	-	F5
M83-449	M74-38 X M74-160	-	F5
M83-459	M74-69 X M75-48	-	F5
M83-715	M73-62 X Simpson	-	F4
M83-727	M73-62 X Simpson	-	F4
M83-734	M73-62 X Simpson	-	F4
M83-744	M73-129 X M73-37	-	F5
M83-747	M73-129 X M73-37	-	F5
M83-750	M73-129 X M73-37	-	F5
M83-766	Evans X M74-394	-	F5
M83-770	M70-260 X Asgrow A1564	-	F5
M83-796	M71-38 X M74-417	-	F5
OT83-4 *Maple Donovan*	Maple Arrow X Harcor	3	F5
OT84-14BR	Maple Arrow X Wayne	2	F5
OT86-5	(Maple Presto X Williams) X Weber	-	F5
OT86-6	(Maple Presto X Williams) X Weber	-	F5

* Number of years in test or name of 1986 test.

UNIFORM TEST 0, 1987

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive code		Chlorosis Score Ames	Chlorosis Score Lamberton	Emerg. Score Ames	Shatter Score Manhatten	BTS Ames a Score	PS Lafayette a %	PSB Lafayette n %	SMV Lafayette a Score
Dawson (0)	PGBDYY	I	1.7	2.0	1	1	3	19	40	3M
Sibley (I)	WGBDYY	I	3.8	4.0	2	1	3	22	26	2M
McCall (00)	PGBDYY	I	2.2	3.0	1	1	4	3	88	3M
M74-12	PGBDYIb	I	2.5	3.0	1	1	3	52	38	4M
M81-18	PGBDYY	I	2.7	2.0	3	1	3	43	40	1
M81-27	WGBDYY	I	2.0	1.5	3	1	3	10	48	4M
M82-317	PGBDYIb	I	2.3	3.0	5	2	3	11	44	1
M82-601	PGBDYY	I	1.7	2.0	3	2	3	38	52	3M
M82-996	WGBDYBf	I	2.2	1.5	4	1	3	25	40	3M
M82-1080	PGTBDYIbBl	I	2.0	1.5	4	1	3	6	50	2M
M82-1011	PGBDYBf	I	3.8	2.5	5	1	3	19	46	5E
M83-16	P+WGBDYY	I	1.3	1.5	5	2	3	21	42	1
M83-58	PGBDYIb	I	4.5	4.0	4	1	3	48	64	1
M83-64	PGBDYY	I	3.5	3.0	2	1	3	16	26	2M
M83-91	PGBDYBf	I	1.2	1.0	5	1	3	26	24	4E
M83-216	WGBDYY	I	3.2	3.5	3	1	4	27	36	1
M83-223	P+WGBDYY	I	3.3	4.0	4	1	3	35	40	2E
M83-413	WGBDYBf	I	3.2	3.0	4	1	3	21	38	3M
M83-442	WGBDYY	I	4.2	2.5	5	2	3	22	70	4M
M83-449	PGBDYBf	I	3.8	3.5	5	2	3	8	36	2M
M83-459	WGBDYY	I	5.0	5.0	3	2	3	29	26	1
M83-715	WGBDYY+Bf	I	2.5	3.0	3	2	3	44	38	2M
M83-727	WGTDYBf	SD	2.8	2.5	2	1	3	26	28	1
M83-734	P+WGTDYIb	I	2.5	3.5	5	2	3	33	30	2E
M83-744	PGBDYY	I	1.7	1.5	2	1	3	11	30	4M
M83-747	P+WGBDYY	I	2.3	1.5	3	1	3	17	48	5M
M83-750	PGBDYY	I	2.5	2.5	2	1	4	6	46	1
M83-766	WGBDYY	I	3.2	3.0	2	2	2	7	20	1
M83-770	PGBDYY	I	3.0	3.0	5	1	3	37	44	1
M83-796	PGBDYIb	I	2.5	4.0	4	1	3	46	24	3M
OT83-4	PGBSYBf	I	2.5	4.0	1	1	3	30	16	3M
OT84-14BR	WTBSYBr	I	3.3	5.0	1	2	3	11	24	4M
OT86-5	WTTSYBl	I	3.0	2.0	1	1	3	1	56	5E
OT86-6	WTTSYBl	I	2.8	4.0	1	1	3	4	72	3M

UNIFORM TEST 0, 1987

Regional Summary

No. of Tests Strain	Yield 8 bu/a	Rank 8 No.	Maturity 8 date	Lodging 8 score	Plant Height 8 in.	Seed Quality 8 score	Seed Size 8 g/100	Composition Protein 5 %	 Oil 5 %
Dawson	46.4	7	9-16.5*	1.8	36	1.5	15.1	38.9	20.1
Sibley (I)	48.5	2	+8.3	2.1	40	1.5	18.2	39.5	20.1
McCall (00)	34.3	34	-11.9	1.5	30	2.0	15.1	38.9	20.5
M74-12	47.9	3	-0.5	1.4	33	1.7	17.4	39.2	19.9
M81-18	42.4	28	-0.8	1.5	37	1.7	16.4	39.1	20.3
M81-27	45.2	14	-0.6	1.3	32	1.8	16.1	38.3	20.7
M82-317	44.4	19	0.0	1.3	32	1.6	16.5	39.0	19.4
M82-601	42.0	31	-2.3	1.6	34	1.9	15.3	39.3	20.2
M82-996	45.8	9	+2.3	1.3	33	1.7	15.1	38.3	20.2
M82-1080	42.7	27	-1.4	1.7	28	2.9	14.3	38.2	20.3
M82-1011	44.9	16	-0.8	1.3	32	2.2	15.4	37.8	20.7
M83-16	45.3	12	+2.9	1.6	36	1.6	15.8	39.2	20.2
M83-58	43.2	25	-2.4	1.5	36	1.9	17.7	37.9	20.7
M83-64	43.4	24	-1.3	1.4	32	1.5	15.4	38.6	20.8
M83-91	42.4	28	-1.3	1.1	31	1.6	15.7	39.0	20.8
M83-216	46.1	8	+1.9	1.3	33	2.0	19.3	38.9	20.5
M83-223	43.6	22	-1.9	1.2	33	1.9	18.0	39.2	20.6
M83-413	41.8	32	-4.1	1.5	32	2.2	14.9	38.9	20.2
M83-442	38.3	33	-6.4	1.3	31	1.8	16.3	39.7	20.4
M83-449	44.6	18	+2.1	1.8	36	1.7	15.7	39.0	21.1
M83-459	44.9	16	+2.1	1.3	33	1.4	16.4	39.7	20.5
M83-715	47.6	4	+3.5	1.4	33	1.8	13.6	39.8	19.7
M83-727	47.1	6	+4.3	1.3	32	2.0	15.2	40.0	19.9
M83-734	45.4	10	+2.5	1.5	36	1.7	14.4	39.3	20.0
M83-744	48.6	1	+3.1	1.3	33	1.6	17.1	39.8	19.4
M83-747	42.8	26	+3.0	1.4	35	1.6	18.8	39.4	20.4
M83-750	43.6	22	+1.4	1.2	31	1.5	17.4	39.8	20.2
M83-766	47.6	4	+3.6	1.4	35	1.5	16.2	39.2	20.4
M83-770	45.3	12	+1.4	1.8	37	1.5	16.5	39.7	20.5
M83-796	44.3	20	-1.3	1.2	36	1.7	17.2	39.0	20.7
OT83-4 Maple Donovan	42.4	28	-2.1	1.5	35	1.5	15.0	39.0	20.7
OT84-14BR	43.7	21	+3.5	1.8	36	1.6	16.3	38.7	20.3
OT86-5	45.0	15	-3.9	1.6	33	2.1	13.8	39.0	21.0
OT86-6	45.4	10	-0.4	1.7	36	2.2	14.1	38.6	21.1

*116 days after planting.

UNIFORM TEST 0, 1987

1986-1987 2-YEAR MEAN

Strain	Yield	Rank	Maturity	Lodging	Plant Height	Seed Quality	Seed Size	Composition Protein	Composition Oil
No. of Tests	17	17	15	16	17	16	17	10	10
	bu/a	No.	date	score	in.	score	g/100	%	%
Dawson (0)	43.4	5	9-23.2*	2.2	36	1.8	14.6	39.6	19.4
McCall (00)	35.8	10	-11.1	1.8	30	2.0	14.8	39.2	19.6
M74-12	45.9	1	+0.4	1.6	34	1.8	16.8	40.4	19.2
M81-18	43.2	7	-2.2	1.8	36	1.8	15.9	39.2	20.0
M81-27	43.4	5	+1.2	1.6	32	2.0	15.8	39.4	19.8
M82-317	44.2	4	+0.2	1.7	33	1.6	16.2	39.8	18.8
M82-601	42.0	10	-1.3	2.2	34	2.0	15.0	40.0	19.6
M82-996	44.7	2	+2.2	1.6	34	1.6	14.4	39.2	19.6
M82-1011	44.4	3	+0.1	1.5	33	2.0	15.2	38.4	20.2
OT83-4	43.2	7	-1.0	1.8	36	1.4	14.6	40.0	19.8
OT84-14BR	43.2	7	+2.2	2.2	36	1.6	16.4	39.8	19.7

*122 days after planting.

1985-1987 3-YEAR MEAN

No. of Tests	26	26	23	25	26	24	26	14	14
Dawson (0)	41.8	4	9-23.9*	2.1	33	1.7	15.1	39.9	19.2
McCall (00)	34.8	7	-11.6	1.7	29	2.0	15.2	39.4	19.4
M74-12	43.5	1	+0.4	1.5	32	1.9	17.4	40.7	19.0
M81-18	42.3	2	-3.0	1.6	32	1.8	16.3	38.9	20.0
M81-27	42.1	3	+1.9	1.6	31	1.9	16.4	39.4	19.7
OT83-4	40.8	6	-0.4	1.8	34	1.5	15.0	40.2	19.6
OT84-14BR	41.8	4	+0.8	2.1	33	1.6	17.1	40.1	19.5

*125 days after planting.

UNIFORM TEST 0, 1987
YIELD (bu/a)

Strain	Mean 8 Tests	Bad Axe MI	Morris MN	Rose-mount MN	Cassel-ton ND	Smith-field Ont.	Wood-stock Ont.	Wilmot SD	Spooner WI
Dawson (0)	46.4	48.5	47.5	57.0	53.7	39.8	55.8	35.0	33.7
Sibley (I)	48.5	56.7	49.0	52.7	55.7	40.7	59.9	40.4	32.5
McCall (00)	34.3	34.2	38.0	38.6	36.4	40.7	46.9	21.8	17.5
M74-12	47.9	55.7	47.5	51.6	49.1	42.2	60.3	41.8	35.0
M81-18	42.4	45.8	41.1	48.5	44.4	38.8	58.1	32.5	30.2
M81-27	45.2	42.9	49.1	55.9	47.2	40.4	52.2	43.9	30.3
M82-317	44.4	41.6	44.5	51.4	49.6	39.5	53.5	38.6	36.2
M82-601	42.0	43.7	44.6	51.6	47.7	37.9	46.1	33.5	31.0
M82-996	45.8	49.0	47.9	57.9	52.8	35.8	52.9	36.2	33.6
M82-1080	42.7	46.8	37.8	51.5	48.2	36.6	55.0	36.7	29.2
M82-1011	44.9	45.6	48.1	52.6	46.7	40.1	54.1	39.9	32.0
M83-16	45.3	49.6	42.8	51.8	44.8	40.3	57.1	37.6	38.4
M83-58	43.2	44.5	46.3	47.2	44.2	40.6	55.1	34.4	33.1
M83-64	43.4	48.1	44.3	52.7	47.7	36.5	51.6	35.8	30.7
M83-91	42.4	46.5	37.9	53.0	46.4	30.5	55.9	38.8	30.3
M83-216	46.1	47.7	43.7	50.8	51.5	41.2	56.9	44.2	32.6
M83-223	43.6	48.9	36.3	50.7	45.7	38.3	53.8	40.1	34.7
M83-413	41.8	45.0	44.6	51.5	46.2	35.7	46.6	35.6	28.9
M83-442	38.3	35.6	32.2	44.6	41.8	38.7	48.5	34.6	30.3
M83-449	44.6	48.9	45.2	50.4	46.6	42.1	52.4	37.2	34.3
M83-459	44.9	33.8	49.4	54.7	50.0	39.2	55.6	41.6	34.9
M83-715	47.6	57.4	53.3	56.3	50.3	37.1	57.4	35.8	33.4
M83-727	47.1	55.2	51.0	56.2	49.8	34.1	59.9	36.2	34.1
M83-734	45.4	47.5	53.4	52.9	45.2	36.6	58.2	36.9	32.1
M83-744	48.6	52.8	48.7	57.4	47.6	42.6	62.1	41.6	36.2
M83-747	42.8	43.0	44.9	50.7	45.7	39.8	51.0	37.4	29.9
M83-750	43.6	44.8	42.8	48.9	47.4	39.9	50.8	38.4	36.0
M83-766	47.6	47.4	52.1	60.5	49.1	38.6	58.8	39.5	34.8
M83-770	45.3	49.2	51.4	50.4	43.0	39.7	57.3	39.3	32.4
M83-796	44.3	47.8	35.9	50.2	46.2	46.2	55.3	42.2	30.2
OT83-4	42.4	42.7	48.5	45.9	42.3	45.8	52.6	37.1	23.9
OT84-14BR	43.7	47.5	41.7	52.4	39.8	44.4	59.1	34.2	30.4
OT86-5	45.0	50.1	53.7	51.6	48.5	40.7	54.6	37.0	23.5
OT86-6	45.4	47.1	50.0	53.0	43.4	45.7	53.3	39.0	31.8
C.V. (%)		14.7	12.9	8.0	8.6	10.3	7.7	9.3	13.2
L.S.D. (5%)		9.7	9.6	6.8	6.5	5.8	5.8	5.7	6.8
Row sp (in.)		20	10	10	30	16	15	30	36
Rows/plot		4	10	10	2	4	4	4	4
Reps		4	3	3	3	4	4	3	3

UNIFORM TEST 0, 1987
YIELD RANK

Strain	Mean 8 Tests	Bad Axe MI	Morris MN	Rose-mount MN	Cassel-ton ND	Smith-field Ont.	Wood-stock Ont.	Wilmot SD	Spooner WI
Dawson (0)	7	12	15	4	2	17	14	28	11
Sibley (I)	2	2	10	12	1	9	3	7	16
McCall (00)	34	33	29	34	34	9	32	34	34
M74-12	3	3	15	17	9	6	2	4	5
M81-18	28	22	28	30	27	22	8	33	27
M81-27	14	29	9	7	17	13	27	2	24
M82-317	19	31	22	22	8	20	22	14	2
M82-601	31	27	20	17	13	26	34	32	21
M82-996	9	9	14	2	3	31	24	23	12
M82-1080	27	20	31	20	12	28	18	22	30
M82-1011	16	23	13	14	18	15	20	9	19
M83-16	12	7	25	16	26	14	11	16	1
M83-58	25	26	17	31	28	12	17	30	14
M83-64	24	13	23	12	13	30	28	25	22
M83-91	28	21	30	9	20	34	13	13	24
M83-216	8	15	24	23	4	8	12	1	15
M83-223	22	10	32	24	23	25	21	8	8
M83-413	32	24	20	20	21	32	33	27	31
M83-442	33	32	34	33	32	23	31	29	24
M83-449	18	10	18	26	19	7	26	18	9
M83-459	16	34	8	8	6	21	15	5	6
M83-715	4	1	3	5	5	27	9	25	13
M83-727	6	4	6	6	7	33	3	23	10
M83-734	10	16	2	11	25	28	7	21	18
M83-744	1	5	11	3	15	5	1	5	2
M83-747	26	28	19	24	23	17	29	17	29
M83-750	22	25	25	29	16	16	30	15	4
M83-766	4	18	4	1	9	24	6	10	7
M83-770	12	8	5	26	30	19	10	11	17
M83-796	20	14	33	28	21	1	16	3	27
OT83-4	28	30	12	32	31	2	25	19	32
OT84-14BR	21	16	27	15	33	4	5	31	23
OT86-5	15	6	1	17	11	9	19	20	33
OT86-6	10	19	7	9	29	3	23	12	20

UNIFORM TEST 0, 1987
MATURITY (date)

Strain	Mean 8 Tests	Bad Axe MI	Morris MN	Rose-mount MN	Cassel-ton ND	Smith-field Ont.	Wood-stock Ont.	Wilmot SD	Spooner WI
Dawson (0)	9-16.5	9-14	9-17	9-17	9-24	9-19	9-14	9-19	9-8
Sibley (I)	+8.3	+6	+13	+9	+5	+16	+11	+3	+3
McCall (00)	-11.9	-8	-7	-15	-21	-16	-11	-11	-6
M74-12	-0.5	+2	+1	-2	-3	+1	+1	-3	-1
M81-18	-0.8	0	+4	-2	-5	+1	+1	-3	-2
M81-27	-0.6	-2	+2	-2	-4	+6	-2	-1	-2
M82-317	0.0	-2	+4	-3	-1	-1	+4	-1	0
M82-601	-2.3	-1	+1	-2	-4	-5	0	-4	-3
M82-996	+2.3	+2	+5	+3	-1	+7	+5	-3	0
M82-1080	-1.4	-1	+1	-4	-5	0	0	-4	+2
M82-1011	-0.8	-1	+2	-2	-5	+3	+2	-3	-2
M83-16	+2.9	+2	+6	+1	0	+6	+8	-1	+1
M83-58	-2.4	-2	+4	-7	-7	0	-1	-5	-1
M83-64	-1.3	-2	+1	-2	-5	0	0	-2	0
M83-91	-1.3	0	0	-3	-4	+4	-3	-2	-2
M83-216	+1.9	+1	+2	+4	-3	+8	+5	-1	-1
M83-223	-1.9	0	+1	-3	-6	0	-3	-3	-1
M83-413	-4.1	-2	-4	-6	-10	0	-2	-6	-3
M83-442	-6.4	-3	-8	-8	-10	-8	-5	-6	-3
M83-449	+2.1	0	+5	+4	-2	+5	+5	-1	+1
M83-459	+2.1	-2	+5	+4	-1	+8	+4	-3	+2
M83-715	+3.5	+2	+7	+6	-1	+9	+7	-3	+1
M83-727	+4.3	+4	+5	+6	-1	+9	+11	-1	+1
M83-734	+2.5	+2	+7	+4	-4	+5	+9	0	-3
M83-744	+3.1	+3	+5	+4	-4	+8	+9	-2	+2
M83-747	+3.0	+1	+5	+3	-1	+9	+7	-1	+1
M83-750	+1.4	+2	+5	+3	-3	+8	-3	-1	0
M83-766	+3.6	+3	+5	+6	0	+9	+5	-1	+2
M83-770	+1.4	0	+4	+3	-3	+1	+8	-3	+1
M83-796	-1.3	+2	-1	-5	-7	+4	+2	-4	-1
OT83-4	-2.1	+1	+8	-4	-10	-1	-3	-4	-4
OT84-14BR	+3.5	-1	+7	+3	+20	+2	-3	+1	-1
OT86-5	-3.9	-5	+2	-8	-9	0	-3	-3	-5
OT86-6	-0.4	-4	+4	-5	-6	+8	+2	0	-2
Date planted	5-24	5-27	5-18	5-22	5-28	5-29	5-21	6-3	5-13
Days to mature	116	110	122	118	119	113	116	108	118

UNIFORM TEST 0, 1987
LODGING (score)

Strain	Mean 8 Tests	Bad Axe MI	Morris MN	Rose-mount MN	Cassel-ton ND	Smith-field Ont.	Wood-stock Ont.	Wilmot SD	Spooner WI
Dawson (0)	1.8	1.5	1.7	3.0	2.3	1.2	2.5	1.0	1.3
Sibley (I)	2.1	1.3	3.0	3.0	2.0	1.3	2.9	1.7	1.7
McCall (00)	1.5	1.0	1.7	3.0	1.0	1.3	1.9	1.0	1.0
M74-12	1.4	1.0	1.3	2.0	2.0	1.0	1.3	1.7	1.0
M81-18	1.5	1.0	2.3	2.7	1.0	1.0	1.8	1.0	1.0
M81-27	1.3	1.0	1.0	2.7	1.0	1.0	1.4	1.0	1.0
M82-317	1.3	1.0	1.7	2.3	1.0	1.0	1.0	1.0	1.0
M82-601	1.6	1.0	1.7	3.3	2.0	1.0	1.9	1.0	1.0
M82-996	1.3	1.0	2.0	1.7	1.0	1.0	1.3	1.0	1.0
M82-1080	1.7	1.0	1.3	3.0	2.3	1.0	2.6	1.0	1.7
M82-1011	1.3	1.0	1.3	2.0	1.7	1.0	1.0	1.0	1.0
M83-16	1.6	1.0	2.0	3.0	1.7	1.0	1.9	1.0	1.0
M83-58	1.5	1.0	2.3	3.0	1.3	1.0	1.4	1.0	1.0
M83-64	1.4	1.0	1.7	2.7	1.0	1.0	1.5	1.0	1.0
M83-91	1.1	1.0	1.0	1.3	1.0	1.0	1.3	1.0	1.0
M83-216	1.3	1.0	1.7	2.3	1.0	1.0	1.3	1.0	1.0
M83-223	1.2	1.0	1.7	2.0	1.0	1.0	1.0	1.0	1.0
M83-413	1.5	1.0	1.7	3.0	1.3	1.0	1.8	1.0	1.0
M83-442	1.3	1.0	1.3	3.0	1.0	1.0	1.4	1.0	1.0
M83-449	1.8	1.0	2.3	3.3	2.0	1.0	2.5	1.0	1.0
M83-459	1.3	1.0	2.0	2.0	1.0	1.0	1.0	1.0	1.0
M83-715	1.4	1.0	2.3	2.3	1.0	1.0	1.3	1.0	1.0
M83-727	1.3	1.0	2.0	2.3	1.3	1.0	1.1	1.0	1.0
M83-734	1.5	1.0	2.7	2.7	1.0	1.0	1.6	1.0	1.3
M83-744	1.3	1.0	1.7	2.0	1.0	1.0	1.3	1.0	1.0
M83-747	1.4	1.0	1.7	2.0	1.6	1.0	1.3	1.3	1.0
M83-750	1.2	1.0	2.0	1.7	1.0	1.0	1.0	1.0	1.0
M83-766	1.4	1.0	2.0	2.7	1.0	1.0	1.3	1.0	1.0
M83-770	1.8	1.0	2.3	3.0	2.0	1.0	2.5	1.3	1.0
M83-796	1.2	1.0	1.3	1.7	1.3	1.0	1.3	1.0	1.0
OT83-4	1.5	1.0	2.0	2.7	1.3	1.0	1.5	1.7	1.0
OT84-14BR	1.8	1.3	2.0	3.0	2.7	1.0	2.6	1.0	1.0
OT86-5	1.6	1.3	1.3	3.0	1.7	1.0	2.1	1.0	1.0
OT86-6	1.7	1.0	1.7	3.0	1.7	1.0	2.9	1.1	1.0

UNIFORM TEST 0, 1987
PLANT HEIGHT (inches)

Strain	Mean 8 Tests	Bad Axe MI	Morris MN	Rose-mount MN	Cassel-ton ND	Smith-field Ont.	Wood-stock Ont.	Wilmot SD	Spooner WI
Dawson (0)	36	29	37	38	38	32	41	40	32
Sibley (I)	40	34	45	44	41	32	39	44	40
McCall (00)	30	21	35	33	32	27	32	36	24
M74-12	33	27	34	36	39	26	37	38	29
M81-18	37	30	38	41	37	28	41	43	37
M81-27	32	24	33	34	34	28	37	38	31
M82-317	32	23	34	32	35	26	36	39	32
M82-601	34	26	37	37	38	27	37	37	30
M82-996	33	24	36	34	37	26	37	38	32
M82-1080	28	21	25	25	31	22	32	35	30
M82-1011	32	22	34	32	36	26	38	39	32
M83-16	36	27	36	41	37	31	41	44	32
M83-58	36	28	37	41	39	28	41	41	33
M83-64	32	25	34	34	34	26	37	38	31
M83-91	31	24	30	34	35	25	35	35	30
M83-216	33	25	32	33	36	26	37	42	33
M83-223	33	25	32	35	36	26	36	39	31
M83-413	32	21	35	35	37	26	36	39	29
M83-442	31	27	30	34	32	26	35	38	29
M83-449	36	25	39	41	40	29	40	41	34
M83-459	33	25	36	36	35	25	35	38	30
M83-715	33	28	36	39	35	24	37	40	28
M83-727	32	26	32	34	33	23	33	42	29
M83-734	36	29	43	38	39	29	39	42	31
M83-744	33	30	35	38	35	25	39	35	30
M83-747	35	28	37	38	39	27	39	42	31
M83-750	31	23	34	34	35	24	34	36	31
M83-766	35	29	39	38	38	28	37	40	32
M83-770	37	29	42	41	40	30	43	43	31
M83-796	36	29	40	37	39	30	39	43	34
OT83-4	35	25	45	34	36	33	37	42	24
OT84-14BR	36	27	38	38	41	34	37	40	30
OT86-5	33	23	37	34	37	30	38	39	26
OT86-6	36	24	41	39	38	32	39	41	35

UNIFORM TEST 0, 1987
SEED QUALITY (score)

Strain	Mean 8 Tests	Bad Axe MI	Morris MN	Rose-mount MN	Cassel-ton ND	Smith-field Ont.	Wood-stock Ont.	Wilmot SD	Spooner WI
Dawson (0)	1.5	1.3	2.0	1.7	1.5	1.3	1.5	2.0	1.0
Sibley (I)	1.5	1.3	2.0	1.7	1.5	1.3	1.5	2.0	1.0
McCall (00)	2.0	1.3	2.7	3.7	2.0	1.8	1.5	2.0	1.0
M74-12	1.7	1.3	2.3	2.0	2.0	1.5	1.5	2.0	1.0
M81-18	1.7	1.0	2.3	1.7	2.0	1.3	1.5	3.0	1.0
M81-27	1.8	1.0	2.0	3.7	1.5	1.3	1.5	2.0	1.0
M82-317	1.6	1.0	2.3	2.3	1.5	1.2	1.5	2.0	1.0
M82-601	1.9	1.3	2.7	3.0	1.5	1.2	1.5	3.0	1.0
M82-996	1.7	1.0	2.3	2.3	1.5	1.2	1.5	3.0	1.0
M82-1080	2.9	2.5	3.0	2.7	4.0	2.0	3.0	5.0	1.0
M82-1011	2.2	1.8	2.3	3.7	1.5	1.5	1.5	4.0	1.0
M83-16	1.6	1.0	2.0	1.3	1.5	1.2	1.5	3.0	1.0
M83-58	1.9	1.0	2.7	2.3	2.0	1.7	1.5	3.0	1.0
M83-64	1.5	1.0	2.3	2.0	1.5	1.0	1.5	2.0	1.0
M83-91	1.6	1.0	2.7	1.7	1.5	1.7	1.5	2.0	1.0
M83-216	2.0	1.3	2.7	2.7	1.5	2.0	1.5	3.0	1.0
M83-223	1.9	1.0	3.0	3.7	1.5	1.5	1.5	2.0	1.0
M83-413	2.2	1.3	3.0	3.0	2.0	1.5	1.5	4.0	1.0
M83-442	1.8	1.0	2.7	2.0	2.0	1.5	1.5	3.0	1.0
M83-449	1.7	1.0	2.0	2.0	1.5	1.2	1.5	3.0	1.0
M83-459	1.4	1.0	1.7	2.0	1.3	1.0	1.5	2.0	1.0
M83-715	1.8	1.3	2.7	1.7	2.0	1.0	1.5	3.0	1.0
M83-727	2.0	1.8	3.0	3.0	2.5	1.0	1.5	2.0	1.0
M83-734	1.7	1.3	2.7	2.3	1.5	1.0	1.5	2.0	1.0
M83-744	1.6	1.3	2.3	2.0	2.0	1.0	1.5	2.0	1.0
M83-747	1.6	1.0	2.7	2.0	1.5	1.0	1.5	2.0	1.0
M83-750	1.5	1.0	2.3	1.7	1.5	1.0	1.5	2.0	1.0
M83-766	1.5	1.0	2.0	2.0	1.5	1.0	1.5	2.0	1.0
M83-770	1.5	1.0	2.0	1.7	1.5	1.0	1.5	2.0	1.0
M83-796	1.7	1.0	2.7	2.0	2.0	1.0	1.5	2.0	1.0
OT83-4	1.5	1.0	1.7	2.0	1.5	1.0	1.5	2.0	1.0
OT84-14BR	1.6	1.0	2.3	2.3	1.5	1.0	1.5	2.0	1.0
OT86-5	2.1	2.0	2.3	2.0	1.5	1.0	3.0	4.0	1.0
OT86-6	2.2	2.0	2.3	2.0	2.0	1.0	3.0	4.0	1.0

UNIFORM TEST 0, 1987
SEED SIZE (g/100)

Strain	Mean 8 Tests	Bad Axe MI	Morris MN	Rose-mount MN	Cassel-ton ND	Smith-field Ont.	Wood-stock Ont.	Wilmot SD	Spooner WI
Dawson (0)	15.1	19.6	13.6	15.0	14.0	14.5	16.6	14.5	12.8
Sibley (I)	18.2	21.5	18.0	18.5	16.2	17.8	21.1	16.4	16.4
McCall (00)	15.1	18.9	13.7	14.0	13.8	15.5	15.6	16.5	12.7
M74-12	17.4	20.9	17.7	16.8	17.1	17.2	18.8	15.8	14.6
M81-18	16.4	21.1	16.9	16.1	14.9	15.3	17.0	15.1	14.7
M81-27	16.1	19.8	16.3	16.2	14.4	15.7	16.8	15.9	13.6
M82-317	16.5	19.3	15.7	16.9	15.6	15.1	18.8	14.7	15.7
M82-601	15.3	19.1	14.3	16.0	13.7	13.8	16.8	14.3	14.0
M82-996	15.1	18.1	14.5	14.8	13.5	14.5	15.5	15.1	14.5
M82-1080	14.3	18.4	13.4	14.5	12.4	14.8	14.8	13.3	13.0
M82-1011	15.4	18.8	14.7	15.8	14.0	15.7	16.0	15.2	12.7
M83-16	15.8	19.5	15.4	15.0	13.8	14.9	19.0	14.5	14.1
M83-58	17.7	24.0	16.8	15.9	15.2	18.0	19.7	16.0	15.6
M83-64	15.4	19.5	15.3	15.2	13.1	15.3	17.3	14.4	12.8
M83-91	15.7	20.1	15.0	15.5	14.6	15.7	16.6	14.0	13.6
M83-216	19.3	24.4	19.5	20.0	17.1	18.9	21.3	17.3	16.2
M83-223	18.0	22.8	16.7	18.0	15.2	18.1	20.6	16.6	15.8
M83-413	14.9	19.5	14.4	14.9	13.1	14.2	15.2	14.8	12.8
M83-442	16.3	21.4	15.7	16.0	14.3	15.5	17.7	14.6	15.1
M83-449	15.7	19.8	14.8	16.2	14.0	14.7	16.2	15.1	15.0
M83-459	16.4	18.9	15.7	16.7	15.1	16.6	16.1	15.4	16.4
M83-715	13.6	16.6	12.8	13.8	12.5	13.5	15.4	12.6	11.7
M83-727	15.2	19.5	14.2	15.0	14.4	14.5	17.2	13.8	13.0
M83-734	14.4	18.5	13.2	13.6	12.3	13.9	16.3	13.2	13.8
M83-744	17.1	20.6	17.1	17.0	14.8	17.4	19.9	16.1	14.2
M83-747	18.8	22.5	18.8	19.0	17.7	19.7	19.7	17.2	15.4
M83-750	17.4	20.9	16.8	17.4	16.3	17.8	17.5	17.1	15.0
M83-766	16.2	20.4	15.2	16.1	14.2	15.4	18.0	15.5	14.5
M83-770	16.5	20.3	15.8	17.1	15.1	15.7	17.8	15.5	14.9
M83-796	17.2	21.7	16.4	17.0	15.4	17.5	19.2	16.5	13.8
OT83-4	15.0	19.0	14.7	15.2	13.8	14.5	15.2	15.4	12.4
OT84-14BR	16.3	20.3	15.7	16.5	14.9	16.1	17.1	15.4	14.6
OT86-5	13.8	17.6	13.1	14.2	13.2	14.0	13.7	13.7	10.6
OT86-6	14.1	17.8	12.5	14.0	13.5	14.9	14.3	13.2	12.4

UNIFORM TEST 0, 1987
PROTEIN (%)

Strain	Mean 5 Tests	Rosemount MN	Casselton ND	Woodstock Ont.	Wilmot SD	Spooner WI
Dawson (0)	38.9	39.9	38.3	39.6	35.8	40.7
Sibley (I)	39.5	39.5	38.8	40.8	37.2	41.4
McCall (00)	38.9	38.9	38.1	39.9	37.6	39.8
M74-12	39.2	38.8	38.2	42.0	36.2	40.7
M81-18	39.1	40.1	37.7	41.1	36.0	40.6
M81-27	38.3	39.2	36.3	40.4	35.6	39.8
M82-317	39.0	40.4	37.3	40.6	36.3	40.5
M82-601	39.3	41.1	37.9	41.2	36.8	39.4
M82-996	38.3	38.8	37.7	40.1	35.3	39.5
M82-1080	38.2	38.2	36.5	40.6	34.3	41.2
M82-1011	37.8	38.9	37.0	38.9	35.3	39.1
M83-16	39.2	40.3	37.8	40.7	37.5	39.6
M83-58	37.9	38.6	36.4	40.2	34.4	39.9
M83-64	38.6	39.3	37.8	40.0	36.4	39.6
M83-91	39.0	39.3	38.2	40.6	36.7	40.2
M83-216	38.9	39.0	39.4	39.8	35.8	40.3
M83-223	39.2	40.1	38.0	40.3	36.6	41.2
M83-413	38.9	39.1	37.4	40.8	36.1	41.2
M83-442	39.7	41.9	38.2	40.8	36.8	40.8
M83-449	39.0	39.7	38.7	40.7	35.0	41.0
M83-459	39.7	40.0	38.8	41.2	37.4	40.9
M83-715	39.8	40.3	39.0	41.9	36.6	41.0
M83-727	40.0	40.9	38.9	41.7	36.8	41.8
M83-734	39.3	41.1	38.1	42.3	35.4	39.5
M83-744	39.8	41.2	38.1	41.3	38.1	40.4
M83-747	39.4	40.4	38.3	40.2	36.8	41.3
M83-750	39.8	41.1	38.8	40.6	36.8	41.7
M83-766	39.2	39.8	38.3	41.4	36.3	40.4
M83-770	39.7	40.1	38.2	41.4	37.2	41.5
M83-796	39.0	40.6	37.3	40.8	36.2	40.0
OT83-4	39.0	41.0	36.9	40.4	36.9	40.0
OT84-14BR	38.7	39.2	37.6	40.7	35.5	40.3
OT86-5	39.0	39.6	38.0	39.9	36.5	40.9
OT86-6	38.6	39.2	37.2	41.2	35.0	40.2

UNIFORM TEST 0, 1987
OIL (%)

Strain	Mean 5 Tests	Rosemount MN	Casselton ND	Woodstock Ont.	Wilmot SD	Spooner WI
Dawson (0)	20.1	19.6	20.2	19.9	21.5	19.5
Sibley (I)	20.1	20.3	19.9	19.5	20.8	19.9
McCall (00)	20.5	20.5	20.3	19.5	21.5	20.8
M74-12	19.9	20.5	19.5	18.2	21.5	19.8
M81-18	20.3	20.8	19.2	19.4	21.5	20.6
M81-27	20.7	20.4	20.9	19.7	22.0	20.6
M82-317	19.4	19.4	19.6	18.6	20.5	19.1
M82-601	20.2	20.2	20.1	18.9	21.0	20.9
M82-996	20.2	20.3	19.6	19.5	21.6	20.0
M82-1080	20.3	21.1	19.0	19.0	22.1	19.6
M82-1011	20.7	20.5	20.5	19.7	22.3	20.6
M83-16	20.2	19.6	20.8	19.3	21.1	20.3
M83-58	20.7	21.1	20.4	19.6	21.7	20.9
M83-64	20.8	20.4	21.0	19.9	21.4	21.2
M83-91	20.8	21.3	20.8	19.8	21.6	20.5
M83-216	20.5	20.7	20.1	19.6	21.5	20.7
M83-223	20.6	20.6	20.3	19.8	21.4	21.1
M83-413	20.2	19.9	20.6	18.9	20.9	20.6
M83-442	20.4	19.7	21.0	19.9	20.8	20.6
M83-449	21.1	20.8	20.4	20.1	22.4	21.7
M83-459	20.5	20.6	20.5	19.9	21.2	20.1
M83-715	19.7	19.9	18.9	18.8	21.5	19.4
M83-727	19.9	19.5	20.1	18.6	21.9	19.5
M83-734	20.0	19.1	20.4	18.8	21.3	20.3
M83-744	19.4	19.5	19.4	19.2	19.6	19.1
M83-747	20.4	20.8	20.2	19.6	20.9	20.5
M83-750	20.2	19.9	20.2	20.2	20.9	20.0
M83-766	20.4	20.4	19.8	19.4	22.1	20.1
M83-770	20.5	20.7	20.5	19.6	22.2	19.7
M83-796	20.7	21.3	20.4	19.5	21.9	20.3
OT83-4	20.7	20.4	20.9	20.0	21.1	21.0
OT84-14BR	20.3	20.3	20.2	19.4	21.4	20.1
OT86-5	21.0	21.1	20.9	20.3	22.1	20.5
OT86-6	21.1	21.6	21.1	20.3	22.4	20.1

UNIFORM TEST I, 1987

Strain	Parentage	Previous* Testing	Generation Composited
BSR 101	L69U40-16-4 X A76-304020	3	F4
Dawson (0)	Evans X M63-217Y	1	F5
Elgin 87 (II)	Elgin (5) X Williams 82	(3)	BC4 F2
Hardin	Corsoy (3) X Cutler 71	4	F5
Sibley (I)	M68-256 X Hodgson	5	F5
A85-192034	A80-344003 X Asgrow A1937	PTI	F5
A85-193023	A79-135010 X Asgrow A1937	PTI	F5
M81-382	M70-127 X Century	1	F5
M81-384	M70-127 X Century	UTII	F5
M82-106	M73-105 X Vickery	PTI	F5
M82-118	M74-69 X Wells II	PTI	F5
M82-559	Vickery X Century	PTI	F5
M82-776	M68-256 X M70-597	PTI	F5
M82-808	M71-52 X Wells II	PTI	F5
M82-946	M74-69 X A77-112008	PTI	F5
W10186	Salut 216 X Amurskaja 41	1	F5

* Number of years in test or name of 1986 test.

DESCRIPTIVE DATA

Strain	Descriptive Code		Chlorosis Score Ames	Chlorosis Score Lamberton	Emerg. Score Ames	Shattering Score Manhatten
BSR 101	PGTSYIb	I	1.2	3.0	1	2
Dawson (0)	PGBDYY	I	1.7	2.0	1	1
Elgin 87 (II)	PTBSYBl	I	2.8	4.0	3	2
Hardin	PGBDYY	I	3.8	4.0	1	1
Sibley (I)	WGBDYY	I	3.3	4.0	1	1
A85-192034	P+WTBDYBr	I	2.8	3.0	4	1
A85-193023	PWTTDYBlBr	I	3.8	4.0	3	2
M81-382	PTBDYBl	I	1.7	1.5	5	2
M81-384	PGBDYIb	I	2.0	1.5	5	2
M82-106	WGBDYBf	I	1.7	1.5	4	1
M82-118	P+WGBDYY+G	I	2.5	1.5	1	1
M82-559	PGBDYY	I	3.5	2.5	1	1
M82-776	PGBDYY	I	1.7	2.5	5	2
M82-808	PGBSYG	I	2.8	1.5	3	1
M82-946	PGBDYY	I	2.3	3.0	2	1
W10186	PGBDYBf	I	1.3	3.0	5	1

UNIFORM TEST I, 1987

DISEASE DATA

Strain	BTS Ames a Score	BSR-Ames Plant n %	BSR-Ames Stem n %	PR Ames Race 4 Reaction	PS Lafayette a %	PSB Lafayette n %	SMV Lafayette a Score
BSR 101	5	60	15.0	S	36	24	2M
Dawson (O)	2	90	39.6	S	19	40	3M
Elgin 87 (II)	4	90	53.6	R	22	16	5E
Hardin	2	100	60.1	S	68	30	5E
Sibley (I)	3	90	45.3	S	22	26	3M
A85-192034	3	90	35.7	S	65	26	4E
A85-193023	3	100	47.1	S	79	54	5E
M81-382	3	100	57.9	S	52	72	5M
M81-384	3	100	69.0	S	39	8	2E
M82-106	3	100	59.3	S	66	18	1
M82-118	3	100	76.7	S	54	26	1
M82-559	3	100	70.0	S	14	16	3M
M82-776	3	100	60.0	S	58	16	1
M82-808	3	100	63.5	S	60	20	1
M82-946	3	90	58.8	S	47	30	1
W10186	3	100	60.1	S	30	18	2M

UNIFORM TEST I, 1987

Regional Summary

Strain	Yield	Rank	Maturity	Lodging	Plant Height	Seed Quality	Seed Size	Composition Protein	Composition Oil
No. of Tests	15	15	12	15	15	13	13	5	5
	bu/a	No.	date	score	in.	score	g/100	%	%
BSR 101	48.4	5	+5.0	1.7	39	2.0	16.1	38.8	19.8
Dawson (0)	41.1	16	-6.3	2.0	33	2.0	16.1	39.0	21.3
Elgin 87 (II)	49.6	3	+9.8	2.2	38	2.0	15.9	38.2	20.1
Hardin	47.4	6	+3.6	2.3	41	2.0	14.8	39.1	20.6
Sibley (I)	43.8	14	9-10.8*	2.3	37	1.9	17.6	39.7	20.9
A85-192034	49.6	3	+4.2	1.3	37	1.7	16.6	40.4	20.2
A85-193023	51.5	1	+6.0	2.0	36	2.1	16.4	39.5	20.3
M81-382	44.1	12	+0.2	1.6	39	2.1	19.7	42.6	19.2
M81-384	50.7	2	+6.1	1.9	39	1.8	17.8	39.6	19.8
M82-106	47.1	8	+1.6	1.5	36	2.1	15.9	40.9	20.7
M82-118	44.9	11	-0.4	1.5	38	1.8	15.8	39.8	21.0
M82-559	47.3	7	-0.8	1.4	33	1.9	17.5	41.2	20.0
M82-776	42.7	15	-3.4	1.6	37	1.9	17.5	41.4	20.7
M82-808	46.5	9	+4.1	1.8	38	1.8	17.3	39.8	20.9
M82-946	45.4	10	+1.0	1.5	37	2.0	16.8	40.4	19.5
W10186	43.9	13	-3.0	1.8	37	2.0	15.5	39.3	21.8

*119 days after planting.

1986-1987 2-YEAR MEAN

No. of Tests	28	28	24	28	28	23	25	9	9
BSR 101	47.8	2	+5.5	1.8	38	2.0	16.0	39.4	19.6
Dawson (0)	42.0	6	-6.8	2.0	32	2.0	15.6	39.4	21.0
Hardin	48.1	1	+3.9	2.5	40	2.0	14.6	39.6	20.2
Sibley	44.9	4	9-15.7*	2.4	36	1.9	17.6	40.1	20.6
M81-382	45.4	3	+0.7	1.6	38	2.2	19.9	42.5	19.2
W10186	44.5	5	-3.0	1.8	36	2.0	15.5	39.6	21.0

*121 days after planting.

UNIFORM TEST I, 1987
YIELD (bu/a)

Strain	Mean 15 Tests	Corwith IA	Nashua IA	Spencer IA	Lafay-ette IN	Britton MI	Saginaw MI	Lamber-ton MN
BSR 101	48.4	51.6	45.5	44.4	51.7	50.8	60.2	45.1
Dawson (0)	41.1	47.1	35.7	36.8	33.8	41.1	44.3	48.6
Elgin 87 (II)	49.6	49.8	47.3	41.2	48.0	60.3	54.1	40.4
Hardin	47.4	55.3	45.2	45.9	45.2	45.6	51.9	51.7
Sibley (I)	43.8	48.4	41.6	39.4	30.8	50.4	43.7	49.8
A85-192034	49.6	51.8	47.7	43.1	44.6	51.4	56.6	56.2
A85-193023	51.5	57.0	49.2	46.5	42.9	51.6	56.4	60.3
M81-382	44.1	49.2	40.8	40.2	34.6	49.5	51.3	44.7
M81-384	50.7	55.0	47.8	43.3	45.7	53.3	60.5	55.6
M82-106	47.1	52.6	45.8	42.1	44.1	50.7	55.0	51.2
M82-118	44.9	49.7	40.8	40.0	39.1	47.3	53.0	54.4
M82-559	47.3	51.8	44.1	43.5	45.3	47.5	50.1	55.9
M82-776	42.7	48.6	41.6	40.3	32.6	45.5	44.4	47.6
M82-808	46.5	49.2	43.4	40.8	46.7	49.0	48.8	49.5
M82-946	45.4	51.1	40.3	41.4	40.7	50.7	56.3	49.1
W10186	43.9	46.1	40.5	40.2	35.5	45.9	44.9	50.0
C.V. (%)		3.9	3.1	3.2	8.9	6.5	11.8	5.5
L.S.D. (%)		2.8	5.0	5.4	6.2	4.6	8.7	4.6
Row sp. (in.)		27	27	27	24	20	20	10
Rows/plot		4	4	4	4	4	4	10
Reps		4	4	4	3	4	4	3

YIELD RANK

BSR 101	5	7	6	3	1	5	2	14
Dawson (0)	16	15	16	16	14	16	15	12
Elgin 87 (II)	3	9	4	9	2	1	7	16
Hardin	6	2	7	2	6	14	9	6
Sibley (I)	14	14	10	15	16	8	16	9
A85-192034	3	5	3	6	7	4	3	2
A85-193023	1	1	1	1	9	3	4	1
M81-382	12	11	12	12	13	9	10	15
M81-384	2	3	2	5	4	2	1	4
M82-106	8	4	5	7	8	6	6	7
M82-118	11	10	12	14	11	12	8	5
M82-559	7	5	8	4	5	11	11	3
M82-776	15	13	10	11	15	15	14	13
M82-808	9	11	9	10	3	10	12	10
M82-946	10	8	15	8	10	6	5	11
W10186	13	16	14	12	12	13	13	8

UNIFORM TEST I, 1987
YIELD (bu/a)

Strain	Waseca MN	Mead NE	London Ont.	Ridge-town Ont.	State College PA	Brook-ings SD	Wilmot SD	Arling-ton WI
BSR 101 (0)	45.3	48.2	54.2	65.8	21.4	45.4	35.0	61.2
Dawson (0)	40.6	30.0	42.8	57.8	18.8	43.6	41.6	54.2
Elgin 87 (II)	41.6	51.7	63.0	60.7	29.5	54.3	38.9	62.7
Hardin	44.0	38.1	53.1	62.9	26.0	43.8	38.0	64.3
Sibley	41.7	41.5	45.8	57.4	21.8	47.9	36.3	60.9
A85-192034	46.9	46.0	52.9	64.8	27.9	54.0	41.0	59.7
A85193023	57.7	45.6	50.0	66.0	26.8	56.9	41.9	64.3
M81-382	41.5	38.2	44.7	61.2	25.8	46.6	34.8	57.9
M81-384	48.0	46.1	53.4	67.3	29.2	50.4	37.1	67.4
M82-106	45.7	39.4	50.0	60.2	23.7	48.3	39.0	58.7
M82-118	45.2	37.3	43.1	60.7	19.3	48.6	37.0	58.1
M82-559	54.6	38.6	43.0	64.8	19.7	48.1	40.9	61.0
M82-776	41.1	33.2	40.9	58.6	22.8	46.4	40.8	56.4
M82-808	45.8	43.9	52.9	61.8	23.5	47.2	35.6	59.3
M82-946	39.4	35.8	49.2	66.5	18.7	46.7	36.8	57.8
W10186	41.0	38.2	47.3	62.3	25.7	42.7	37.5	60.1
C.V. (%)	12.0	10.1	10.8	5.8	16.6	5.3	6.6	4.6
L.S.S. (%)	9.1	6.9	7.4	6.2	6.6	4.2	4.2	4.5
Row sp. (in.)	10	30	14.8	24	30	30	30	30
Rows/plot	10	4	4	4	4	4	4	4
Reps	3	3	4	3	3	3	3	3

YIELD RANK

BSR 101	7	2	2	4	12	13	15	5
Dawson (0)	15	16	15	15	15	15	2	16
Elgin 87 (II)	11	1	1	11	1	2	7	4
Hardin	9	12	4	7	5	14	8	2
Sibley (I)	10	7	11	16	11	8	13	7
A85-192034	4	4	5	5	3	3	3	9
A85-193023	1	5	7	3	4	1	1	2
M81-382	12	10	12	10	6	11	16	13
M81-384	3	3	3	1	2	4	10	1
M82-106	6	8	7	13	8	6	6	11
M82-118	8	13	13	11	14	5	11	12
M82-559	2	9	14	5	13	7	4	6
M82-776	13	15	16	14	10	12	5	15
M82-808	5	6	5	9	9	9	14	10
M82-946	16	14	9	2	16	10	12	14
W10186	14	10	10	8	7	16	9	8

UNIFORM TEST I, 1987
MATURITY (date)

Strain	Mean 12 Tests	Corwith IA	Nashua IA	Spencer IA	Lafay-ette IN	Britton MI	Saginaw MI	Lamber-ton MN
BSR 101	+5.0	+5	--	--	+14	+5	+12	+4
Dawson (0)	-6.3	-6	--	--	-4	-8	-8	-9
Elgin 87 (II)	+9.8	+11	--	--	+17	+11	+15	+10
Hardin	+3.6	+5	--	--	+9	+3	+10	+1
Sibley (I)	9-10.8	9-8	--	--	8-15	9-1	9-13	9-12
A85-192034	+4.2	+5	--	--	+10	+5	+11	+7
A85-193023	+6.0	+6	--	--	+14	+5	+12	+7
M81-382	+0.2	-2	--	--	+6	+1	+2	-5
M81-384	+6.1	+7	--	--	+8	+7	+13	+7
M82-106	+1.6	+2	--	--	+8	+3	+5	0
M82-118	-0.4	-1	--	--	+3	0	+4	-2
M82-559	-0.8	-2	--	--	+6	-1	+3	-5
M82-776	-3.4	-3	--	--	-2	-6	+2	-6
M82-808	+4.1	+3	--	--	+9	+2	+5	+1
M82-946	+1.0	+1	--	--	+4	0	+6	0
W10186	-3.0	-3	--	--	+5	-3	-5	-6
Date planted	5-15	5-6	5-5	5-7	5-4	5-7	5-13	5-14
Days to mature	119	125	--	--	103	116	123	121

LODGING (score)

BSR 101	1.7	1.0	1.3	1.6	1.7	2.0	2.5	1.0
Dawson (0)	2.0	1.2	1.6	2.3	1.7	3.8	2.5	1.7
Elgin 87 (II)	2.2	1.3	2.2	2.1	2.0	3.3	3.8	1.3
Hardin	2.3	1.4	2.1	2.4	2.5	3.5	2.8	3.3
Sibley (I)	2.3	1.2	1.8	2.8	3.0	3.8	3.0	3.0
A85-192034	1.3	1.0	1.3	1.2	1.0	1.8	1.5	1.0
A85-193023	2.0	1.2	1.8	1.9	1.5	2.3	4.0	1.7
M81-382	1.6	1.1	1.6	1.6	1.3	1.8	1.8	2.0
M81-384	1.9	1.2	1.6	2.0	2.0	2.5	2.3	2.0
M82-106	1.5	1.0	1.3	1.7	1.0	2.0	3.0	1.0
M82-118	1.5	1.0	1.2	1.3	1.5	2.3	1.8	1.0
M82-559	1.4	1.0	1.5	1.2	1.3	1.0	1.8	1.0
M82-776	1.6	1.0	1.4	1.7	1.3	2.0	1.5	1.3
M82-808	1.8	1.1	1.6	2.1	1.3	3.0	2.8	2.0
M82-946	1.5	1.0	1.2	1.3	1.3	2.0	2.3	1.0
W10186	1.8	1.1	1.5	1.7	1.8	2.3	3.0	1.3

UNIFORM TEST I, 1987

MATURITY (date)

Strain	Waseca MN	Mead NE	London Ont.	Ridge-town Ont.	State College PA	Brook-ings SD	Wilmot SD	Arling-ton WI
BSR 101	+5	0	+3	-3	--	+5	+4	+6
Dawson (0)	-10	-5	-5	-6	--	-9	+10	-15
Elgin 87 (II)	+10	+11	+8	+3	--	+8	+5	+9
Hardin	-1	+3	+6	+3	--	+1	+2	+1
Sibley (I)	9-11	9-6	9-13	9-22	--	9-19	9-23	9-18
A85-192034	+5	+1	+2	0	--	+4	+3	-2
A85-193023	+6	+5	+5	+2	--	+3	+3	+4
M81-382	-4	+1	+8	-2	--	+1	-2	-2
M81-384	+6	+4	+6	+2	--	+4	+2	+7
M82-106	+1	0	+4	-3	--	+2	0	-3
M82-118	-3	0	+1	-3	--	+1	-1	-4
M82-559	-4	0	+3	-3	--	0	-2	-4
M82-776	-7	-3	-1	-5	--	-1	-1	-8
M82-808	+1	+2	+3	+1	--	+1	0	+1
M82-946	0	+1	+2	-2	--	+1	-1	0
W10186	-7	-1	-1	-5	--	-3	-3	-4
Date planted	5-7	5-18	5-14	5-25	5-29	5-20	6-3	5-12
Days to mature	127	111	122	120	--	122	112	129

LODGING (score)

BSR 101	2.3	1.7	1.1	3.0	1.0	1.7	1.0	2.8
Dawson (0)	2.7	1.0	1.0	3.0	1.0	1.7	1.7	3.0
Elgin 87 (II)	4.0	1.0	1.4	4.0	1.0	2.0	1.0	3.2
Hardin	3.3	1.0	1.3	3.0	1.0	2.3	1.3	3.2
Sibley (I)	3.0	1.0	1.1	3.0	1.0	2.3	1.0	3.2
A85-192034	2.7	1.0	1.1	1.6	1.0	1.0	1.0	1.8
A85-193023	3.0	1.0	1.3	3.2	1.0	2.0	1.0	2.8
M81-382	2.7	1.0	1.0	2.4	1.0	1.3	1.0	2.2
M81-384	3.0	1.0	1.5	2.7	1.0	2.3	1.0	2.8
M82-106	2.0	1.0	1.0	2.0	1.0	1.3	1.0	2.3
M82-118	2.0	1.0	1.0	2.0	1.0	2.3	1.0	2.3
M82-559	2.0	1.0	1.0	2.0	1.0	1.3	1.0	2.2
M82-776	3.0	1.0	1.0	2.7	1.0	1.7	1.0	2.7
M82-808	2.3	1.0	1.0	2.7	1.0	2.0	1.0	2.0
M82-946	2.3	1.0	1.0	2.3	1.0	2.0	1.0	2.3
W10186	3.0	1.0	1.4	2.4	1.0	2.0	1.0	2.5

UNIFORM TEST I, 1987
PLANT HEIGHT (inches)

Strain	Mean 15 Tests	Corwith IA	Nashua IA	Spencer IA	Lafay-ette IN	Britton MI	Saginaw MI	Lamber-ton MN
BSR 101	39	44	41	46	39	41	44	48
Dawson (0)	33	34	34	34	28	36	35	41
Elgin 87 (II)	38	42	42	42	36	37	38	46
Hardin	41	46	42	44	37	42	46	49
Sibley (I)	37	41	39	43	33	40	36	47
A85-192034	37	39	37	40	35	38	40	44
A85-193023	36	39	38	41	35	37	41	43
M81-3822	39	41	43	42	38	38	41	45
M81-384	39	42	42	44	35	40	41	46
M82-106	36	40	38	40	34	38	39	44
M82-118	38	40	38	40	35	39	41	47
M82-559	33	35	37	36	27	32	34	41
M82-776	37	42	41	40	31	39	40	46
M82-808	38	43	41	44	37	39	40	47
M82-946	37	39	37	42	35	39	41	47
W10186	37	39	40	38	36	38	41	46

SEED QUALITY (score)

	Mean 13 Tests							
BSR 101	2.0	--	--	2.0	1.5	2.8	2.0	1.7
Dawson (0)	2.0	--	--	1.0	3.5	3.0	1.5	1.7
Elgin 87 (II)	2.0	--	--	3.0	2.0	1.8	2.0	1.3
Hardin	2.0	--	--	2.0	1.5	1.8	1.8	1.3
Sibley (I)	1.9	--	--	2.0	3.0	1.8	1.3	2.0
A85-192034	1.7	--	--	2.0	1.5	2.0	1.5	1.7
A85-193023	2.1	--	--	3.0	2.0	2.3	2.8	2.0
M81-382	2.1	--	--	2.0	2.0	2.8	1.3	2.7
M81-384	1.8	--	--	2.0	2.0	1.3	1.5	1.7
M82-106	2.1	--	--	3.0	1.5	2.0	2.3	3.0
M82-118	1.8	--	--	2.0	1.5	1.5	1.8	1.7
M82-559	1.9	--	--	2.0	1.5	2.0	1.8	2.0
M82-776	1.9	--	--	2.0	2.0	2.0	1.0	2.0
M82-808	1.8	--	--	2.0	2.0	2.5	1.3	1.7
M82-946	2.0	--	--	2.0	2.0	1.8	1.5	2.7
W10186	2.0	--	--	2.0	2.0	1.5	2.8	2.0

UNIFORM TEST I, 1987
PLANT HEIGHT (inches)

Strain	Waseca MN	Mead NE	London Ont.	Ridge-town Ont.	State College PA	Brook-ings SD	Wilmot SD	Arling-ton WI
BSR 101	44	32	30	37	19	44	47	38
Dawson (0)	36	25	26	36	17	40	44	33
Elgin 87 (II)	45	33	30	37	20	43	40	38
Hardin	42	35	33	46	20	43	51	40
Sibley (I)	40	31	28	39	19	42	43	39
A85-192034	41	29	29	38	20	42	42	38
A85-193023	43	29	28	34	21	39	39	36
M81-382	43	33	29	41	22	44	44	40
M81-384	42	31	29	41	22	44	47	39
M82-106	40	27	27	36	19	40	38	38
M82-118	42	30	26	38	19	44	48	38
M82-559	37	25	23	35	16	38	42	33
M82-776	39	29	27	36	18	45	48	36
M82-808	39	31	27	41	17	41	44	38
M82-946	41	31	28	36	18	41	46	41
W10186	38	30	32	40	20	41	44	39

SEED QUALITY (score)

BSR 101	2.0	2.0	1.5	2.0	2.2	2.0	2.0	2.0
Dawson (0)	2.3	2.7	1.5	2.0	2.0	2.0	2.0	1.0
Elgin 87 (II)	1.7	1.3	2.0	2.0	2.2	3.0	3.0	1.0
Hardin	1.7	2.7	1.5	2.3	2.3	2.0	3.0	2.0
Sibley (I)	2.0	2.2	1.5	2.0	2.5	2.0	2.0	1.0
A85-192034	2.0	1.2	1.5	2.0	2.0	2.0	2.0	1.0
A85-193023	1.7	1.3	1.5	2.0	2.3	3.0	2.0	2.0
M81-382	2.3	3.3	2.0	2.0	2.2	2.0	2.0	1.0
M81-384	2.0	2.0	1.5	3.0	2.0	2.0	2.0	1.0
M82-106	3.3	2.2	1.5	2.0	2.0	2.0	2.0	1.0
M82-118	2.0	2.5	1.5	2.0	2.0	2.0	2.0	1.0
M82-559	2.0	2.5	1.5	2.0	2.0	2.0	3.0	1.0
M82-776	2.0	3.5	1.5	2.0	2.0	2.0	2.0	1.0
M82-808	1.7	2.0	1.5	2.0	2.0	2.0	2.0	1.0
M82-946	2.3	2.5	1.5	2.3	2.2	2.0	2.0	1.0
W10186	2.0	2.5	1.5	3.0	2.2	2.0	2.0	1.0

UNIFORM TEST I, 1987
SEED SIZE (g/100)

Strain	Mean 13 Tests	Corwith IA	Nashua IA	Spencer IA	Lafay-ette IN	Britton MI	Saginaw MI	Lamber-ton MN
BSR 101	16.1	--	--	17.2	15.2	17.0	18.5	13.5
Dawson (0)	16.1	--	--	14.2	16.4	14.4	18.4	14.3
Elgin 87 (II)	15.9	--	--	15.8	14.9	17.6	18.3	12.4
Hardin	14.8	--	--	14.8	14.2	15.3	17.0	14.2
Sibley (I)	17.6	--	--	17.1	13.3	18.1	20.8	16.5
A85-192034	16.6	--	--	16.7	14.1	17.3	18.9	16.9
A85-193023	16.4	--	--	16.4	13.6	16.6	18.2	16.4
M81-382	19.7	--	--	19.2	17.1	21.4	22.9	17.6
M81-384	17.8	--	--	17.5	15.0	19.0	20.7	15.7
M82-106	15.9	--	--	15.6	15.9	16.7	17.8	15.2
M82-118	15.8	--	--	15.6	15.0	16.4	18.7	15.8
M82-559	17.5	--	--	17.1	16.2	18.6	20.6	16.7
M82-776	17.5	--	--	16.6	15.5	17.5	19.8	17.5
M82-808	17.3	--	--	16.2	17.2	18.1	19.1	15.7
M82-946	16.8	--	--	16.6	15.4	18.6	18.5	16.2
W10186	15.5	--	--	14.7	14.4	15.5	16.8	14.5

UNIFORM TEST I, 1987
SEED SIZE (g/100)

Strain	Waseca MN	Mead NE	London Ont.	Ridge-town Ont.	State College PA	Brook ings SD	Wilmot SD	Arling-ton WI
BSR 101	15.2	17.2	19.2	18.2	10.8	15.4	14.9	17.4
Dawson (0)	14.1	15.4	18.4	22.8	14.1	14.7	14.8	16.8
Elgin 87 (II)	13.9	14.4	18.5	17.9	15.0	16.3	15.2	16.9
Hardin	13.8	15.7	16.3	16.4	10.1	14.0	14.1	16.4
Sibley (I)	16.2	17.4	21.2	20.6	15.3	16.1	16.7	19.4
A85-192034	14.9	16.7	19.0	18.7	14.5	16.7	15.3	16.2
A85-193023	15.7	16.2	18.9	18.5	14.1	16.3	15.6	16.5
M81-382	17.5	18.6	23.3	22.5	18.6	19.6	16.5	21.2
M81-384	15.7	18.2	20.8	19.5	14.9	17.9	17.5	19.1
M82-106	14.2	15.1	18.8	16.1	14.1	15.7	15.7	15.7
M82-118	13.4	15.8	18.8	16.2	12.8	15.1	15.5	16.4
M82-559	14.8	18.4	20.3	18.4	15.8	16.1	15.8	18.2
M82-776	17.1	17.7	19.8	18.9	15.8	16.6	16.0	19.2
M82-808	17.0	17.3	18.5	19.0	15.0	16.4	16.6	18.2
M82-946	15.8	16.7	19.5	18.4	14.4	16.3	15.6	16.8
W10186	13.4	15.2	18.7	17.6	14.9	15.1	15.0	15.8

UNIFORM TEST I, 1987
PROTEIN (%)

Strain	Mean 5 Tests	Ames IA	Saginaw MI	Waseca MN	Brookings SD	Arlington WI
BSR 101	38.8	38.0	41.1	39.3	38.1	37.3
Dawson (0)	39.0	38.5	41.6	40.5	37.2	37.3
Elgin 87 (II)	38.2	38.3	40.1	38.4	37.2	37.2
Hardin	39.1	38.0	41.6	40.6	37.4	38.1
Sibley (I)	39.7	38.1	43.2	39.8	39.0	38.2
A85-192034	40.4	39.9	42.9	40.4	40.2	38.6
A85-193023	39.5	39.5	42.4	38.9	38.2	38.5
M81-382	42.6	41.3	43.3	42.8	42.2	43.4
M81-384	39.6	39.3	41.7	38.8	39.5	38.9
M82-106	40.9	40.1	43.6	41.5	39.0	40.1
M82-118	39.8	38.9	41.2	40.1	39.2	39.6
M82-559	41.2	40.8	43.8	41.8	39.9	39.9
M82-776	41.4	40.5	43.0	43.5	39.8	40.3
M82-808	39.8	39.7	42.0	40.0	39.0	38.3
M82-946	40.4	39.2	43.0	39.7	40.5	39.8
W10186	39.3	39.5	41.6	39.3	38.0	37.6

OIL (%)

BSR 101	19.8	20.0	19.0	19.6	20.1	20.5
Dawson (0)	21.3	20.7	20.0	20.7	22.0	23.3
Elgin 87 (II)	20.1	19.8	20.2	20.0	19.3	21.0
Hardin	20.6	21.0	19.9	20.3	20.2	21.7
Sibley (I)	20.9	21.4	19.6	20.7	20.6	22.0
A85-192034	20.2	20.4	19.3	20.1	20.5	20.7
A85-193023	20.3	20.5	18.9	20.5	20.4	21.2
M81-382	19.2	19.3	19.3	19.6	18.6	19.3
M81-384	19.8	20.0	19.3	20.0	19.5	20.4
M82-106	20.7	20.3	20.0	21.4	20.7	21.2
M82-118	21.0	20.8	20.7	21.4	20.3	21.6
M82-559	20.0	20.0	18.6	20.4	20.5	20.7
M82-776	20.7	20.8	19.6	20.7	21.1	21.1
M82-808	20.9	20.6	20.5	21.0	20.4	22.0
M82-946	19.5	19.9	18.5	20.1	19.4	19.8
W10186	21.8	21.3	20.9	22.8	21.1	22.7

PRELIMINARY TEST I, 1987

Strain	Parentage	Generation Composited
Dawson (0)	Evans X M63-217Y	F5
Elgin 87 (II)	Elgin (5) X Williams 82	BC4 F2
Hardin	Corsoy (3) X Cutler 71	F5
Sibley (I)	M68-256 X Hodgson	F5
A86-101009	Hack X Asgrow A1937	F5
A86-101013	A80-244036 X Tri-Valley Charger	F5
A86-101025	A80-244036 X Asgrow A1937	F5
A86-101030	Hack X Midwest Oilseeds 2050	F5
A86-101034	Hack X Tri-Valley Charger	F5
A86-102003	A80-244036 X Asgrow A1937	F5
A86-102004	A80-244036 X Asgrow A1937	F5
A86-103002	Jacques J103 X A81-356022	F5
A86-103013	Stine 3200 X NK S1346	F5
A86-103024	A80-244036 X Hack	F5
A86-103027	Hack X Asgrow A1937	F5
A86-104002	A81-156017 X Asgrow A1937	F5
A86-104007	A81-356022 X A80-349006	F5
A86-104011	A80-244036 X A80-344003	F5
A86-105009	L78-1491 X Hardin	F5
A85D5	Elf X Agripro 1120	F5
C1704	Dawson X U37219	F5
C1709	L73-4673 X Wells BC(7)-19-1	F5
M83-108	Hodgson 78 X Pella	F4
M83-136	Weber X M71-39	F4
M83-329	M73-62 X Vickery	F4
M83-357	M71-52 X Asgrow A2656	F4
M83-377	M72-127 X M74-359	F4
M83-504	M71-52 X M74-23	F5
M83-630	M72-24 X A78-123018	F5
M83-767	M70-260 X Asgrow A1564	F5
M83-779	M70-260 X Asgrow A1564	F5
M83-785	M71-38 X M74-417	F5
M83-791	M71-38 X M74-417	F5
M83-792	M71-38 X M74-417	F5
M83-819	Evans X Century	F5
M83-823	Evans X Century	F5
M83-830	Evans X Century	F5
M83-861	M71-80 X Glenwood	F5
M83-899	M74-270 X A78-123018	F5
M83-904	M74-270 X A78-123018	F5

PRELIMINARY TEST I, 1987

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code		Chlorosis Score Ames	Chlorosis Score Lamberton	Shatter Score Manhattan	BSR - Ames Plant n %	BSR - Ames Stem n %	PR Ames Race 4	PS Lafayette a %	PSB Lafayette n %	SMV Lafayette a Score
Dawson (0)	PGBDYY	I	1.7	2.0	1	70	34.4	S	19	40	3M
Elgin 87 (II)	PTBSYBl	I	2.8	4.0	2	70	50.7	R	22	16	5E
Hardin	PGBDYY	I	3.8	4.0	1	90	43.5	S	68	30	5E
Sibley (I)	WGBDYY	I	3.3	4.0	1	100	43.5	H	22	26	3M
A86-101009	WTBSYBl+Br	I	3.3	3.0	2	90	49.3	S	30	20	4E
A86-101013	PTTDYBl+Br	I	2.2	4.0	1	90	50.8	H	14	54	5E
A86-101025	PTTDYBr	I	4.2	4.0	1	90	45.2	R	30	46	5E
A86-101030	PGTDYG+Y	I	1.8	2.0	1	80	46.5	S	33	16	5E
A86-101034	Heterogen.	I	3.7	4.0	3	60	16.4	H	-	-	4E
A86-102003	PTTDYBl+Br	I	3.8	4.0	2	100	71.1	S	25	34	3E
A86-102004	PTTDYBr	I	4.0	5.0	1	100	70.5	H	29	26	4E
A86-103002	Heterogen.	I	2.3	5.0	1	100	64.4	S	37	18	3E
A86-103013	PTBSYBl	I	4.0	4.0	1	100	76.5	S	11	24	5E
A86-103024	PTTSYBl	I	4.5	5.0	1	90	51.4	H	10	38	5E
A86-103027	WTBSYBr	I	2.7	4.0	2	100	64.4	R	41	36	4E
A86-104002	PTBDYBl	I	3.7	3.0	3	30	14.3	R	37	16	5E
A86-104007	Heterogen.	I	1.5	3.0	2	70	34.9	H	46	20	5E
A86-104011	P+WTTDYBr	I	3.0	3.0	1	80	30.3	R	17	30	5E
A86-105009	P+WTBDYG	I	2.8	3.0	2	100	76.1	H	35	26	5E
A85D5	PGBDYIb	I	1.3	2.0	1	100	61.0	S	58	14	3E
C1704	PTBDYBl+Br	I	2.0	3.0	1	100	69.5	S	31	26	3E
C1709	PGTDYY	I	2.0	4.0	3	100	72.1	H	70	38	4E
M83-108	PGTDYIb	I	2.8	3.0	1	100	73.3	R	65	20	2M
M83-136	PGBDYBf	I	1.8	2.5	2	80	52.9	H	22	50	3M
M83-329	WGB+TDYY	I	2.3	3.0	1	100	74.5	R	38	36	2M
M83-357	PGBDYIb	I	3.0	3.5	1	100	76.9	S	52	44	1
M83-377	WGBDYBf	I	3.7	3.0	1	100	47.1	S	26	38	1
M83-504	WGBDYIb	I	3.7	4.0	1	100	71.3	S	28	38	1
M83-630	PGBDYIb	I	1.8	2.5	3	100	71.7	S	42	26	2E
M83-767	WGBDYY	I	3.0	3.5	1	100	53.2	S	15	58	1
M83-779	P+WGBDYY	I	1.8	3.5	2	70	20.7	S	9	62	2M
M83-785	P+WGBDYBf	I	1.3	2.5	1	80	17.1	S	14	54	1
M83-791	P+WGBDYBf	I	1.3	3.0	1	70	29.4	S	21	58	1
M83-792	PGBSYIb	I	1.5	3.0	2	90	43.2	S	13	40	2E
M83-819	WTBDYBl	I	2.2	3.0	1	90	50.6	H	10	27	2E
M83-823	WGBDYBf	I	2.0	3.0	2	100	52.5	S	18	36	3M
M83-830	WTBDYBl	I	2.2	2.5	1	90	62.1	S	26	34	3M
M83-861	P+WTBDYBl	I	1.7	2.5	2	80	55.6	S	37	40	1
M83-899	P+WGBDYBf	I	3.5	4.0	2	100	84.7	S	58	26	3M
M83-904	WGBDYY	I	2.5	3.5	2	100	85.2	H	34	26	3E

PRELIMINARY TEST I, 1987

Regional Summary

Strain	Yield	Rank	Maturity	Lodging	Plant Height	Seed Quality	Seed Size	Composition Protein	Composition Oil
No. of Tests	8	8	7	8	8	7	7	5	5
	bu/a	No.	date	score	in.	score	g/100	%	%
Dawson (0)	44.3	38	-8.0	2.6	36	1.9	15.4	39.6	21.3
Elgin 87 (II)	51.0	23	+10.9	2.4	40	2.0	16.0	38.5	20.0
Hardin	51.2	19	+4.1	2.7	43	1.9	15.0	39.1	20.6
Sibley (I)	47.8	31	9-13.0*	2.4	39	1.7	17.5	39.4	21.0
A86-101009	53.7	10	+5.1	2.0	40	1.9	18.2	40.6	19.7
A86-101013	57.4	1	+1.4	2.7	38	2.2	17.2	37.5	22.0
A86-101025	52.1	15	+2.4	2.7	41	2.1	18.3	38.8	20.8
A86-101030	55.0	6	+5.9	1.3	38	1.9	17.5	38.4	21.4
A86-101034	54.5	8	+5.4	2.4	40	2.0	17.5	39.5	20.3
A86-102003	52.3	13	+7.6	2.1	42	2.2	18.3	38.0	20.3
A86-102004	56.7	2	+6.4	2.0	38	2.4	17.1	38.3	20.3
A86-103002	55.2	5	+9.6	1.5	39	1.9	17.4	40.7	19.7
A86-103013	54.9	7	+9.3	2.5	41	2.1	16.9	39.5	20.1
A86-103024	54.5	8	+2.3	3.3	38	2.1	19.2	37.4	20.8
A86-103027	55.5	4	+9.4	1.8	40	1.7	17.4	39.0	20.7
A86-104002	51.1	21	+5.3	2.3	42	1.5	18.5	40.3	19.6
A86-104007	51.2	19	+5.9	2.0	43	1.8	19.1	40.1	19.4
A86-104011	56.5	3	+6.3	2.4	36	1.8	19.1	39.5	20.3
A86-105009	47.9	30	+4.0	2.3	40	2.1	14.4	38.8	21.0
A85D5	49.6	26	+8.0	1.9	35	1.9	15.7	41.5	19.6
C1704	48.7	28	+6.0	2.4	41	2.1	16.2	39.1	20.0
C1709	41.0	40	+5.3	2.3	46	2.1	14.3	40.5	19.2
M83-108	52.3	13	+4.9	1.6	43	1.9	17.6	38.9	20.6
M83-136	47.7	32	+1.3	2.6	40	2.0	14.4	38.3	20.4
M83-329	50.1	25	+3.6	2.5	41	1.6	15.7	40.4	19.1
M83-357	51.6	17	+3.0	1.9	39	2.1	17.4	39.2	20.2
M83-377	51.5	18	+3.4	2.2	37	2.0	15.9	39.1	20.6
M83-504	51.8	16	+2.3	1.8	39	1.9	17.6	39.9	20.4
M83-630	51.1	21	+2.3	1.8	44	2.0	16.6	39.3	20.6
M83-767	48.5	29	-3.7	1.7	37	1.7	17.3	39.4	21.2
M83-779	44.0	39	-5.1	2.4	43	1.9	16.4	40.1	20.9
M83-785	45.4	37	-3.3	2.1	43	1.9	16.1	39.3	21.0
M83-791	46.5	37	-2.0	1.7	39	1.7	14.2	39.9	20.5
M83-792	47.6	33	-2.1	1.6	41	1.8	16.3	39.7	20.8
M83-819	48.9	27	-4.1	1.4	38	2.0	19.1	40.8	20.0
M83-823	47.4	34	-1.7	1.8	42	1.8	18.2	42.6	19.5
M83-830	53.6	11	+3.0	1.3	36	2.1	17.5	40.1	20.1
M83-861	47.1	35	-2.6	2.0	38	1.7	16.7	39.4	21.2
M83-899	53.2	12	+4.1	2.6	46	2.1	15.4	38.3	20.5
M83-904	51.0	23	+4.3	2.5	43	1.8	14.9	38.4	20.5

*122 days after planting.

PRELIMINARY TEST I, 1987
YIELD (bu/a)

Strain	Mean 8 Tests	Corwith IA	Spencer IA	Saginaw MI	Lamber-ton MN	Waseca MN	Ridge-town Ont.	Brook-ings SD	Arling-ton WI
Dawson (0)	44.3	38.1	31.9	42.4	48.5	40.9	54.4	43.1	55.4
Elgin 87 (II)	51.0	52.0	40.1	67.9	42.9	37.8	57.9	53.2	55.9
Hardin	51.2	54.1	41.2	53.8	56.9	47.6	54.2	41.4	60.1
Sibley (I)	47.8	44.7	37.0	44.8	44.9	44.6	59.8	48.1	58.4
A86-101009	53.7	51.7	44.0	60.0	49.2	51.3	60.0	55.6	57.9
A86-101013	57.4	48.6	48.7	58.6	56.1	57.5	66.4	57.7	65.3
A86-101025	52.1	46.1	39.0	52.0	57.8	51.6	58.2	51.1	61.1
A86-101030	55.0	51.9	50.4	63.2	51.7	51.9	57.8	50.6	62.2
A86-101034	54.5	50.2	44.4	60.8	49.5	56.0	58.8	59.2	57.1
A86-102003	52.3	49.0	42.0	58.7	45.8	51.8	60.7	52.4	58.1
A86-102004	56.7	51.5	47.1	65.2	59.6	52.6	60.0	55.5	62.3
A86-103002	55.2	51.7	45.6	62.6	52.8	50.2	60.9	57.5	60.1
A86-103013	54.9	50.8	42.1	67.3	53.4	52.6	59.2	62.8	51.3
A86-103024	54.5	55.2	47.4	51.8	56.0	51.0	62.2	53.4	58.8
A86-103027	55.5	52.1	44.8	71.3	49.1	48.7	59.5	55.9	62.6
A86-104002	51.1	41.8	41.7	57.6	51.2	48.3	57.4	51.1	59.3
A86-104007	51.2	48.8	40.6	55.6	48.6	45.2	60.9	50.3	59.4
A86-104011	56.5	57.7	46.7	51.9	57.7	58.1	62.1	58.1	59.3
A86-105009	47.9	48.7	38.1	46.2	49.3	42.6	54.0	46.2	57.9
A865D5	49.6	39.6	40.6	52.6	49.3	49.2	51.0	57.4	57.4
C1704	48.7	40.6	42.3	50.1	50.1	46.4	50.1	49.3	60.3
C1709	41.0	37.7	36.1	42.4	37.7	39.6	47.4	39.4	47.4
M83-108	52.3	47.2	42.2	49.9	50.4	53.0	58.5	56.1	60.7
M83-136	47.7	43.6	35.2	52.3	42.4	49.2	58.6	45.1	55.5
M83-329	50.1	47.2	41.2	47.8	54.1	51.0	52.7	48.8	58.0
M83-357	51.6	42.6	54.4	53.7	50.5	43.4	60.0	53.6	54.9
M83-377	51.5	44.7	42.4	51.2	51.1	50.2	56.1	53.3	63.1
M83-504	51.8	53.5	38.1	57.2	48.0	47.0	59.9	51.5	59.0
M83-630	51.1	49.8	39.3	60.0	46.8	48.5	59.2	50.7	54.8
M83-767	48.5	46.4	41.7	47.4	51.9	47.9	49.7	43.9	59.1
M83-779	44.0	44.9	35.2	42.5	44.3	48.3	43.3	43.2	50.5
M83-785	45.4	41.3	36.1	46.7	47.1	37.4	56.5	45.2	52.8
M83-791	46.5	40.8	37.0	47.3	45.1	45.7	48.5	49.5	57.8
M83-792	47.6	52.4	35.4	47.1	49.7	44.5	55.9	47.3	53.8
M83-819	48.9	45.8	38.2	48.7	49.6	50.7	50.6	49.1	58.2
M83-823	47.4	49.2	40.4	42.5	51.2	47.3	47.3	47.3	54.3
M83-830	53.6	50.3	42.4	65.2	51.3	51.8	53.9	57.6	56.4
M83-861	47.1	44.0	38.6	53.1	48.9	43.4	47.0	46.5	55.3
M83-899	53.2	53.5	43.3	53.0	50.4	56.9	60.8	51.9	56.1
M83-904	51.0	44.6	39.5	58.9	52.2	48.1	59.0	50.2	55.5
C.V. (%)		10.2	8.8	8.7	6.8	11.6	8.3	5.2	5.9
L.S.D. (5)		9.7	7.3	9.6	6.9	11.4	9.5	5.3	6.9
Row sp. (in.)		27	27	20	10	10	24	30	30
Rows/plot		4	4	4	10	10	4	4	4
Reps		2	2	2	2	2	2	2	2

PRELIMINARY TEST I, 1987
YIELD RANK

Strain	Mean 8 Tests	Corwith IA	Spencer IA	Saginaw MI	Lamber-ton MN	Waseca MN	Ridge-town Ont.	Brook-ings SD	Arling-ton WI
Dawson (0)	38	39	40	39	30	37	27	38	31
Elgin 87 (II)	23	8	25	2	38	39	21	15	28
Hardin	19	3	21	17	4	26	28	39	9
Sibley (I)	31	28	33	36	36	32	12	29	17
A86-101009	10	10	11	9	26	12	8	10	21
A86-101013	1	21	3	13	5	2	1	4	1
A86-101025	15	25	28	23	2	11	20	20	6
A86-101030	6	9	2	6	12	8	22	22	5
A86-101034	8	15	9	8	23	4	17	2	25
A86-102003	13	18	18	12	34	9	7	16	19
A86-102004	2	12	5	4	1	6	8	11	4
A86-103002	5	10	7	7	9	16	4	6	9
A86-103013	7	13	17	3	8	6	14	1	38
A86-103024	8	2	4	25	6	13	2	13	16
A86-103027	4	7	8	1	27	20	13	9	3
A86-104002	21	34	19	14	14	22	23	19	12
A86-104007	19	19	9	16	29	31	4	23	11
A86-104011	3	1	6	24	3	1	3	3	12
A86-105009	30	20	31	35	24	36	29	33	21
A865D5	26	38	23	21	24	18	32	7	24
C1704	28	37	15	27	20	29	34	26	8
C1709	40	40	35	39	40	38	37	40	40
M83-108	13	22	16	28	18	5	19	8	7
M83-136	32	32	38	22	39	18	18	35	29
M83-329	25	22	21	30	7	13	31	28	20
M83-357	17	33	1	18	17	34	8	12	33
M83-377	18	28	13	26	16	16	25	14	2
M83-504	16	4	31	15	31	28	11	18	15
M83-630	21	16	27	6	33	21	14	21	34
M83-767	29	24	19	31	11	25	35	36	14
M83-779	39	27	38	37	37	22	40	37	39
M83-785	37	35	35	34	32	40	24	34	37
M83-791	37	36	33	32	35	30	36	25	23
M83-792	33	6	37	33	21	33	26	31	36
M83-819	27	26	30	29	22	15	33	27	18
M83-823	34	17	24	37	14	27	38	30	35
M83-830	11	14	13	4	13	9	30	5	26
M83-861	35	31	29	19	28	34	39	32	32
M83-899	12	4	12	20	18	3	6	17	27
M83-904	23	30	26	11	10	24	16	24	29

PRELIMINARY TEST I, 1987
MATURITY (date)

Strain	Mean 7 Tests	Corwith IA	Spencer IA	Saginaw MI	Lamber-ton MN	Waseca MN	Ridge-town Ont.	Brook-ings SD	Arling-ton WI
Dawson (0)	-8.0	-7	--	-10	-10	-10	0	-7	-12
Elgin 87 (II)	+10.9	+10	--	+17	+11	+10	+7	+9	+12
Hardin	+4.1	+4	--	+11	-2	-1	+7	+2	+8
Sibley (I)	9-13.0	9-8	--	9-12	9-10	9-11	9-16	9-18	9-16
A86-101009	+5.1	+2	--	+11	+3	+4	+4	+5	+7
A86-101013	+1.4	-2	--	-3	+1	+2	+6	+3	+3
A86-101025	+2.4	-2	--	+3	+2	+1	+1	+4	+8
A86-101030	+5.9	+3	--	+11	+7	+5	+4	+6	+5
A86-101034	+5.4	+2	--	+9	+3	+4	+6	+4	+10
A86-102003	+7.6	+5	--	+13	+7	+4	+8	+8	+8
A86-102004	+6.4	+3	--	+13	+6	+5	+6	+4	+8
A86-103002	+9.6	+8	--	+16	+10	+6	+12	+8	+7
A86-103013	+9.3	+8	--	+15	+8	+6	+7	+9	+12
A86-103024	+2.3	-1	--	+3	0	+3	+3	+3	+5
A86-103027	+9.4	+8	--	+15	+9	+8	+8	+10	+8
A86-104002	+5.3	0	--	+10	+5	+4	+6	+5	+7
A86-104007	+5.9	+4	--	+13	+4	+3	+6	+8	+3
A86-104011	+6.3	+4	--	+9	+4	+4	+7	+6	+10
A86-105009	+4.0	+4	--	+6	+5	+2	+7	+1	+3
A865D5	+8.0	+4	--	+11	+11	+8	+9	+10	+3
C1704	+6.0	+4	--	+9	+6	+3	+8	+4	+8
C1709	+5.3	+1	--	+4	+7	+4	+6	+7	+8
M83-108	+4.9	+4	--	+4	+7	+4	+4	+6	+5
M83-136	+1.3	-2	--	+1	+1	+2	+2	0	+5
M83-329	+3.6	+2	--	+1	+3	+3	+4	+2	+10
M83-357	+3.0	-2	--	+9	-1	-1	+7	+2	+7
M83-377	+3.4	+4	--	+1	+3	+2	+2	+4	+8
M83-504	+2.3	+1	--	+3	+2	+1	+3	+1	+5
M83-630	+2.3	+2	--	+4	+2	+2	-3	+6	+3
M83-767	-3.7	-3	--	-6	-4	-5	-4	-4	0
M83-779	-5.1	-6	--	-7	-5	-6	-4	-5	-3
M83-785	-3.3	-2	--	-6	-7	-7	-1	+1	-1
M83-791	-2.0	-2	--	-1	-4	-5	-2	+1	-1
M83-792	-2.1	-2	--	-1	-3	-5	-2	+1	-3
M83-819	-4.1	-4	--	-4	-5	-5	-6	-1	-4
M83-823	-1.7	-2	--	-3	-4	-1	-3	+2	-1
M83-830	+3.0	+4	--	+11	-1	+2	0	+5	0
M83-861	-2.6	-2	--	-3	-5	-3	-2	-1	-2
M83-899	+4.1	+3	--	+4	+4	+2	+4	+5	+7
M83-904	+4.3	0	--	+6	+4	+2	+6	+4	+8
Date planted	5-14	5-6	5-7	5-13	5-14	5-7	5-23	5-20	5-12
Days to mature	122	125	--	122	119	127	116	121	127

PRELIMINARY TEST I, 1987
LODGING (score)

Strain	Mean 8 Tests	Corwith IA	Spencer IA	Saginaw MI	Lamber-ton MN	Waseca MN	Ridge-town Ont.	Brook-ings SD	Arling-ton WI
Dawson (0)	2.6	1.1	2.8	3.0	1.5	3.0	3.3	2.5	3.3
Elgin 87 (II)	2.4	1.1	1.9	4.0	1.0	4.0	2.6	2.0	2.5
Hardin	2.7	1.3	2.7	3.0	3.0	3.0	2.9	2.5	3.3
Sibley (I)	2.4	1.0	3.1	2.0	2.5	3.0	2.9	1.5	3.0
A86-101009	2.0	1.0	1.5	3.0	1.0	2.0	2.6	2.0	2.8
A86-101013	2.7	1.1	3.6	1.5	3.0	3.0	3.1	4.0	2.5
A86-101025	2.7	1.1	3.0	2.5	2.0	3.0	3.5	3.0	3.5
A86-101030	1.3	1.0	1.5	1.0	1.0	2.0	1.0	1.0	1.5
A86-101034	2.4	1.0	1.8	2.0	1.5	3.5	3.5	3.0	3.0
A86-102003	2.1	1.1	1.6	2.5	1.0	2.5	3.0	2.5	2.3
A86-102004	2.0	1.0	2.0	2.5	1.0	3.0	2.2	2.0	2.3
A86-103002	1.5	1.0	1.2	2.0	1.0	3.0	1.2	1.0	1.8
A86-103013	2.5	1.0	2.1	4.0	1.5	2.5	3.6	2.5	3.0
A86-103024	3.3	1.2	3.5	2.5	3.5	4.0	3.9	4.0	3.8
A86-103027	1.8	1.0	1.5	2.0	1.5	2.5	1.6	2.0	2.0
A86-104002	2.3	1.0	1.9	3.0	1.5	3.0	3.0	2.5	2.5
A86-104007	2.0	1.0	1.7	2.0	1.0	3.0	2.7	2.0	2.3
A86-104011	2.4	1.1	2.0	2.5	2.5	4.0	2.2	2.5	2.3
A86-105009	2.3	1.2	2.3	2.0	2.5	2.0	3.5	2.0	2.5
A865D5	1.9	1.1	1.5	2.0	1.5	2.0	1.4	3.5	2.3
C1704	2.4	1.0	2.3	1.5	2.0	3.0	3.2	2.5	3.5
C1709	2.3	1.0	2.0	2.0	2.0	3.5	3.5	2.0	2.5
M83-108	1.6	1.1	1.5	1.5	1.0	2.5	1.2	2.5	1.8
M83-136	2.6	1.1	2.2	2.5	2.0	3.0	4.2	2.0	3.8
M83-329	2.5	1.1	2.8	1.5	3.0	3.5	3.0	2.5	2.5
M83-357	1.9	1.1	1.3	2.0	2.0	2.0	2.4	1.5	2.5
M83-377	2.2	1.1	2.6	2.0	1.0	2.5	3.2	2.0	3.5
M83-504	1.8	1.0	1.6	1.5	1.0	2.0	3.0	2.0	2.3
M83-630	1.8	1.1	1.5	2.0	1.0	2.5	2.2	1.5	2.5
M83-767	1.7	1.0	1.1	2.0	1.0	2.5	2.2	1.0	2.5
M83-779	2.4	1.2	2.4	2.5	1.5	3.0	4.3	1.0	3.3
M83-785	2.1	1.1	2.2	2.0	1.5	2.5	3.1	1.5	2.5
M83-791	1.7	1.0	1.3	2.0	1.0	2.0	1.9	2.0	2.0
M83-792	1.6	1.1	2.1	2.0	1.0	2.0	1.3	2.0	1.5
M83-819	1.4	1.0	1.1	1.0	1.0	2.0	1.7	1.5	1.8
M83-823	1.8	1.0	1.9	1.0	1.0	2.5	2.9	1.5	2.3
M83-830	1.3	1.0	1.4	1.0	1.0	2.0	1.2	1.0	1.5
M83-861	2.0	1.0	2.1	1.5	1.0	2.5	3.1	1.5	3.0
M83-899	2.6	1.3	2.3	2.5	3.0	3.5	3.4	2.5	2.3
M83-904	2.5	1.0	1.8	3.0	3.0	3.0	3.2	2.0	2.8

PRELIMINARY TEST I, 1987
PLANT HEIGHT (inches)

Strain	Mean 8 Tests	Corwith IA	Spencer IA	Saginaw MI	Lamber-ton MN	Waseca MN	Ridge-town Ont.	Brook-ings SD	Arling-ton WI
Dawson (0)	36	31	34	38	41	37	35	37	36
Elgin 87 (II)	40	42	42	44	43	45	28	41	38
Hardin	43	41	42	49	50	45	37	42	40
Sibley (I)	39	36	38	38	44	39	33	43	38
A86-101009	40	38	42	40	44	41	34	43	36
A86-101013	38	34	42	37	41	38	33	39	39
A86-101025	41	40	43	44	45	43	32	43	41
A86-101030	38	38	42	40	44	40	28	36	35
A86-101034	40	38	41	42	45	45	33	43	35
A86-102003	42	40	42	45	47	45	36	45	37
A86-102004	38	36	41	39	42	41	33	40	33
A86-103002	39	38	41	34	45	41	33	42	38
A86-103013	41	37	41	39	46	43	36	43	39
A86-103024	38	40	39	36	45	35	33	41	35
A86-103027	40	42	41	41	46	42	33	41	36
A86-104002	42	40	44	41	47	47	35	42	34
A86-104007	43	44	45	40	46	47	37	42	42
A86-104011	36	36	38	34	40	40	31	36	36
A86-105009	40	38	42	40	46	42	36	39	39
A865D5	35	34	38	34	39	39	27	36	35
C1704	41	38	42	40	46	42	40	45	38
C1709	46	46	49	46	51	51	38	48	41
M83-108	43	40	45	44	49	44	36	47	38
M83-136	40	37	40	43	47	39	35	43	38
M83-329	41	36	40	42	43	42	37	48	40
M83-357	39	34	39	43	45	38	32	39	39
M83-377	37	37	36	37	42	36	31	42	34
M83-504	39	40	37	35	44	42	35	38	37
M83-630	44	42	45	47	50	42	34	47	42
M83-767	37	32	38	40	42	36	29	38	37
M83-779	43	42	44	47	48	42	38	44	42
M83-785	43	40	46	45	47	43	39	44	42
M83-791	39	38	42	39	45	38	28	44	39
M83-792	41	40	39	42	45	40	31	48	40
M83-819	38	34	37	35	43	40	31	42	38
M83-823	42	40	42	41	46	43	34	42	44
M83-830	36	33	37	33	42	37	29	39	35
M83-861	38	34	40	38	42	39	33	39	39
M83-899	46	47	44	49	51	46	40	48	43
M83-904	43	42	44	46	48	45	36	47	39

PRELIMINARY TEST I, 1987
SEED QUALITY (score)

Strain	Mean 7 Tests	Corwith IA	Spencer IA	Saginaw MI	Lamber-ton MN	Waseca MN	Ridge-town Ont.	Brook-ings SD	Arling-ton WI
Dawson (0)	1.9	--	2.0	1.5	2.5	2.0	2.5	2.0	1.0
Elgin 87 (II)	2.0	--	3.0	2.0	1.5	1.5	2.0	3.0	1.0
Hardin	1.9	--	1.0	1.0	1.5	1.5	3.0	2.0	3.0
Sibley (I)	1.7	--	2.0	1.0	2.0	2.0	2.0	2.0	1.0
A86-101009	1.9	--	2.0	2.0	1.5	1.5	2.5	3.0	1.0
A86-101013	2.2	--	3.0	1.5	2.0	2.0	3.0	3.0	1.0
A86-101025	2.1	--	3.0	2.5	1.5	2.0	2.0	3.0	1.0
A86-101030	1.9	--	2.0	2.0	1.0	1.5	3.0	3.0	1.0
A86-101034	2.0	--	2.0	2.0	1.0	2.0	3.0	2.0	2.0
A86-102003	2.2	--	2.0	2.0	1.5	2.0	3.0	3.0	2.0
A86-102004	2.4	--	3.0	2.5	2.0	2.0	3.0	3.0	1.0
A86-103002	1.9	--	2.0	1.5	1.0	1.5	1.5	3.0	3.0
A86-103013	2.1	--	2.0	2.5	1.5	1.5	2.0	3.0	2.0
A86-103024	2.1	--	2.0	1.5	2.5	2.0	3.0	3.0	1.0
A86-103027	1.7	--	2.0	2.0	1.0	1.0	2.0	2.0	2.0
A86-104002	1.5	--	1.0	1.5	1.0	1.5	2.5	2.0	1.0
A86104007	1.8	--	2.0	1.5	1.5	1.5	2.0	2.0	2.0
A86-104011	1.8	--	2.0	1.5	2.0	2.0	2.0	2.0	1.0
A86-105009	2.1	--	3.0	1.5	1.5	2.0	2.0	3.0	2.0
A865D5	1.9	--	2.0	1.5	1.0	2.0	2.0	3.0	2.0
C1704	2.1	--	2.0	1.5	2.0	1.5	2.5	2.0	3.0
C1709	2.1	--	2.0	1.5	1.5	2.0	2.0	3.0	3.0
M83-108	1.9	--	1.0	2.0	1.0	1.0	3.0	3.0	2.0
M83-136	2.0	--	2.0	1.5	1.5	2.0	2.0	2.0	3.0
M83-329	1.6	--	1.0	1.5	1.5	2.0	2.0	2.0	1.0
M83-357	2.1	--	2.0	2.5	1.5	1.5	3.0	2.0	2.0
M83-377	2.0	--	2.0	1.0	2.0	2.0	3.0	2.0	2.0
M83-504	1.9	--	2.0	2.5	2.0	2.0	2.0	2.0	1.0
M83-630	2.0	--	2.0	2.0	1.8	2.0	2.5	2.0	2.0
M83-767	1.7	--	1.0	1.0	2.5	1.5	2.0	2.0	2.0
M83-779	1.9	--	1.0	1.5	2.5	2.0	2.0	2.0	2.0
M83-785	1.9	--	2.0	1.0	2.5	2.0	2.0	3.0	1.0
M83-791	1.7	--	2.0	1.5	2.5	1.0	2.5	2.0	1.0
M83-792	1.8	--	2.0	1.5	2.8	1.5	2.0	2.0	1.0
M83-819	2.0	--	2.0	2.0	2.8	2.0	2.0	2.0	1.0
M83-823	1.8	--	2.0	1.0	2.2	2.0	1.5	2.0	2.0
M83-830	2.1	--	2.0	2.0	2.0	1.5	2.0	3.0	2.0
M83-861	1.7	--	2.0	1.5	2.2	1.5	2.0	2.0	1.0
M83-899	2.1	--	2.0	2.0	2.8	2.0	2.0	2.0	2.0
M83-904	1.8	--	1.0	1.5	1.5	1.5	2.0	2.0	3.0

PRELIMINARY TEST I, 1987
SEED SIZE (g/100)

Strain	Mean 7 Tests	Corwith IA	Spencer IA	Saginaw MI	Lamber-ton MN	Waseca MN	Ridge-town Ont.	Brook-ings SD	Arling-ton WI
Dawson (0)	15.4	--	13.4	18.1	14.4	13.2	16.7	15.4	16.5
Elgin 87 (II)	16.0	--	16.0	20.1	12.1	13.6	17.5	16.7	15.9
Hardin	15.0	--	14.3	17.9	14.0	12.7	15.5	13.9	16.7
Sibley (I)	17.5	--	16.4	20.6	14.7	16.5	18.2	16.2	19.7
A86-101009	18.2	--	17.5	22.6	16.1	16.4	18.9	18.0	17.8
A86-101013	17.2	--	17.0	19.3	14.9	15.0	19.2	17.4	17.4
A86-101025	18.3	--	17.5	20.3	17.6	15.9	20.0	18.1	18.9
A86-101030	17.5	--	17.6	21.7	15.7	15.2	17.2	17.4	17.5
A86-101034	17.5	--	16.6	21.0	15.8	15.0	17.6	18.3	18.3
A86-102003	18.3	--	17.2	21.7	16.7	16.8	18.5	18.4	19.0
A86-102004	17.1	--	16.6	19.1	15.9	15.4	17.6	17.7	17.5
A86-103002	17.4	--	17.2	22.6	14.3	15.1	18.1	17.2	17.0
A86-103013	16.9	--	16.3	19.9	13.9	15.7	17.6	17.2	18.0
A86-103024	19.2	--	18.4	21.5	16.7	17.4	21.1	19.5	19.8
A86-103027	17.4	--	16.4	20.7	14.8	15.5	18.9	17.3	17.9
A86-104002	18.5	--	18.7	21.7	16.7	16.6	18.9	18.0	19.2
A86-104007	19.1	--	20.4	23.8	16.3	16.7	19.9	18.4	18.5
A86-104011	19.1	--	18.8	22.4	17.1	17.3	19.5	18.7	20.1
A86-105009	14.4	--	13.9	15.9	12.8	12.6	16.7	14.4	14.5
A865D5	15.7	--	15.7	16.6	13.4	14.4	16.3	16.0	17.4
C1704	16.2	--	16.1	18.1	14.7	14.2	17.2	16.4	16.5
C1709	14.3	--	14.1	16.3	12.4	13.0	15.0	14.4	15.1
M83-108	17.6	--	17.5	19.8	16.0	15.3	16.6	19.4	18.7
M83-136	14.4	--	13.1	16.6	12.2	12.5	15.8	14.2	16.3
M83-329	15.7	--	14.8	16.8	15.4	14.9	15.9	15.5	16.8
M83-357	17.4	--	17.1	21.3	15.9	15.6	18.0	16.0	18.2
M83-377	15.9	--	15.4	16.2	14.3	15.0	16.8	16.6	17.2
M83-504	17.6	--	17.2	21.2	16.9	15.0	18.7	16.0	17.9
M83-630	16.6	--	16.2	19.3	15.6	16.0	15.5	17.4	16.3
M83-767	17.3	--	16.8	19.0	17.0	14.8	17.5	16.7	19.6
M83-779	16.4	--	16.2	17.3	16.2	15.6	16.8	15.2	17.4
M83-785	16.1	--	15.2	17.4	13.3	14.4	17.7	17.1	17.6
M83-791	14.2	--	14.0	14.8	12.3	13.8	14.8	14.1	15.5
M83-792	16.3	--	15.1	18.1	14.6	15.1	17.3	16.7	17.3
M83-819	19.1	--	17.8	20.9	17.8	18.1	20.0	18.7	20.6
M83-823	18.2	--	16.8	21.4	16.1	18.0	18.5	17.4	19.2
M83-830	17.5	--	16.2	21.9	14.8	15.7	17.5	17.7	18.6
M83-861	16.7	--	15.9	18.2	16.0	15.9	17.4	16.1	17.4
M83-899	15.4	--	15.2	17.7	13.7	13.6	15.8	16.0	16.0
M83-904	14.9	--	14.3	16.2	13.6	13.2	15.5	15.0	16.4

PRELIMINARY TEST I, 1987
PROTEIN (%)

Strain	Mean 5 Tests	Ames IA	Waseca MN	Saginaw MI	Brookings SD	Arlington WI
Dawson (0)	39.6	37.9	41.0	42.1	39.9	36.9
Elgin 87 (II)	38.5	39.5	37.1	41.3	37.8	36.9
Hardin	39.1	38.5	39.5	41.6	38.2	37.9
Sibley (I)	39.4	39.6	40.3	41.4	38.5	37.4
A86-101009	40.6	40.3	39.9	43.1	40.8	39.0
A86-101013	37.5	36.7	38.2	39.0	37.5	35.9
A86-101025	38.8	38.6	38.3	40.8	39.3	37.1
A86-101030	38.4	38.1	38.1	40.4	38.5	36.9
A86-101034	39.5	39.2	38.0	41.9	39.0	39.2
A86-102003	38.0	37.9	37.2	39.4	38.5	37.2
A86-102004	38.3	38.7	37.5	39.5	39.3	36.7
A86-103002	40.7	40.4	41.1	42.8	39.8	39.5
A86-103013	39.5	39.3	38.7	41.8	38.7	39.2
A86-103024	37.4	37.9	37.8	39.0	36.1	36.4
A86-103027	39.0	38.0	38.6	40.2	40.0	38.4
A86-104002	40.3	40.9	40.7	40.5	40.5	38.8
A86-104007	40.1	39.1	40.5	43.0	39.9	38.1
A86-104011	39.5	38.5	40.2	40.6	38.6	39.4
A86-105009	38.8	38.1	38.8	40.4	38.4	38.4
A865D5	41.5	40.8	40.7	41.9	43.2	40.8
C1704	39.1	37.9	39.4	41.3	38.5	38.6
C1709	40.5	40.7	39.7	42.2	39.9	40.0
M83-108	38.9	38.9	38.3	40.9	37.9	38.4
M83-136	38.3	37.9	37.3	40.5	38.1	37.6
M83-329	40.4	39.4	40.6	43.2	39.2	39.5
M83-357	39.2	39.0	39.2	41.5	38.4	37.8
M83-377	39.1	39.0	39.3	40.2	38.8	38.0
M83-504	39.9	38.3	40.1	43.6	39.1	38.4
M83-630	39.3	38.9	38.8	40.8	39.6	38.4
M83-767	39.4	38.6	39.1	41.3	39.1	39.1
M83-779	40.1	39.6	40.7	41.0	39.7	39.6
M83-785	39.3	38.9	39.3	42.1	39.1	37.3
M83-791	39.9	39.8	40.5	41.7	39.3	38.0
M83-792	39.7	39.3	39.7	41.5	40.4	37.4
M83-819	40.8	40.2	40.2	42.9	40.6	40.1
M83-823	42.6	42.3	43.4	43.0	42.1	42.0
M83-830	40.1	40.4	40.4	41.8	39.4	38.5
M83-861	39.4	38.7	39.6	41.8	38.2	38.7
M83-899	38.3	37.8	37.8	40.6	38.7	36.8
M83-904	38.4	37.8	37.7	40.6	37.3	38.7

PRELIMINARY TEST I, 1987
OIL (%)

Strain	Mean 5 Tests	Ames IA	Waseca MN	Saginaw MI	Brookings SD	Arlington WI
Dawson (0)	21.3	21.1	21.0	20.2	20.8	23.4
Elgin 87 (II)	20.0	19.5	20.5	19.1	20.1	20.9
Hardin	20.6	20.0	20.5	19.5	21.0	21.8
Sibley (I)	21.0	20.7	20.4	20.6	20.9	22.6
A86-101009	19.7	19.8	19.7	19.2	18.9	20.8
A86-101013	22.0	21.7	22.8	22.5	20.3	22.8
A86-101025	20.8	20.9	20.8	20.5	20.6	21.4
A86-101030	21.4	20.8	22.0	21.4	19.8	22.8
A86-101034	20.3	20.0	20.5	19.5	20.4	21.1
A86-102003	20.3	19.7	20.5	20.6	19.2	21.4
A86-102004	20.3	19.7	20.6	20.2	19.7	21.4
A86-103002	19.7	19.0	20.3	19.5	19.1	20.7
A86-103013	20.1	19.6	20.8	19.7	20.2	20.0
A86-103024	20.8	20.0	21.3	20.5	20.5	21.8
A86-103027	20.7	20.2	21.1	20.6	20.0	21.6
A86-104002	19.6	18.6	20.0	19.8	19.0	20.8
A86-104007	19.4	19.3	19.3	19.1	18.9	20.5
A86-104011	20.3	20.0	20.9	20.5	19.5	20.6
A86-105009	21.0	21.0	21.1	20.5	21.3	20.9
A865D5	19.6	19.5	20.4	19.4	18.1	20.8
C1704	20.0	19.6	19.6	20.1	20.0	20.7
C1709	19.2	18.7	19.6	18.8	19.1	19.7
M83-108	20.6	19.7	20.6	21.2	20.2	21.4
M83-136	20.4	20.7	20.1	19.6	20.0	21.4
M83-329	19.1	19.4	19.8	18.3	18.7	19.4
M83-357	20.2	20.3	19.9	19.7	20.2	21.1
M83-377	20.6	20.0	20.7	20.5	20.7	21.0
M83-504	20.4	20.5	20.6	19.6	20.1	21.3
M83-630	20.6	20.5	21.5	20.6	19.7	20.8
M83-767	21.2	20.5	21.8	20.9	20.9	21.8
M83-779	20.9	20.6	21.1	20.9	20.5	21.5
M83-785	21.0	20.3	21.4	19.8	20.7	22.6
M83-791	20.5	19.7	20.8	19.7	20.6	21.6
M83-792	20.8	20.2	21.3	20.4	19.9	22.1
M83-819	20.0	19.5	20.8	19.3	19.9	20.3
M83-823	19.5	19.3	19.4	19.6	19.1	19.9
M83-830	20.1	19.7	20.7	19.6	19.6	20.7
M83-861	21.2	20.5	21.8	20.5	20.9	22.1
M83-899	20.5	20.3	21.0	19.9	20.0	21.3
M83-904	20.5	20.5	21.4	20.2	19.5	20.9

UNIFORM TEST II, 1987

Strain	Parentage	Previous* Testing	Generation Composited
BSR 201	L69U40-16-4 X A76-304020	-	F4
Century 84	Century (5) X Williams 82	5	BC4 F3
Elgin 87 (II)	Elgin (5) X Williams 82	2	BC4 F2
Hardin (I)	Corsoy X Cutler 71	1	F5
Zane (III)	Cumberland X Pella	2	F5
A83-273009	Asgrow A3127 X Tri-Valley Charger	2	F4
A84-284033	HW79015 X A80-247007	1	F4
A85-193020	Asgrow A1937 X Tri-Valley Charger III	PTI	F5
A85-195005	A80-149008 X Midwest Oilseeds 2050	PTI	F5
A85-291001	Elgin X Asgrow A1937	PTIIB	F5
A85-291010	Midwest Oilseeds 3010 X Asgrow A1937	PTI	F5
A85-293032	A80-344003 X Elgin	PTIIB	F5
E84159	Sprite X L73-4673	PTIIA	F4
E84165	Sprite X L73-4673	PTIIA	F4
HM8536	HW79149 X HW79022	PTIIB	F5
LN82-3254	Williams 82 X Hardin	PTIIA	F5
LN82-9648	K74-113-76-486 X Century	PTIIA	F5
M81-384	M70-127 X Century	1	F5
U83-75056	Hodgson X Desoto	PTIIA	F5

* Number of years in test or name of 1986 test.

DESCRIPTIVE DATA

Strain	Descriptive Code		Chlorosis Score Ames	Chlorosis Score Lamberton	Emerg. Score Ames	Shattering Score Manhatten
BSR 201	WGBDYBf	I	4.3	3.0	3	2
Century 84	PTBDYBl	I	2.5	3.0	5	1
Elgin 87 (II)	PTBSYBl	I	3.7	4.0	3	2
Hardin (I)	PGBDYY	I	3.8	4.0	1	1
Zane (III)	PGBDYIb	I	3.0	4.0	5	1
A83-273009	PTTDYBr	I	3.7	4.0	2	3
A84-284033	WGBDYBf	I	3.0	3.0	1	1
A85-193020	PTTDYBr	I	5.0	5.0	1	2
A85-195005	PTBDYIb	I	2.5	4.0	1	3
A85-291001	PTBDYBl	I	4.5	4.0	1	1
A85-291010	PGBSYBr	I	3.3	4.0	1	3
A85-293032	P+WTBDYBl	I	3.0	4.0	5	1
E84159	WGTDYBr	I	4.0	4.0	1	1
E84165	Heterogen.	I	4.7	4.0	1	1
HM8536	PTBDYBl	I	4.2	4.0	3	2
LN82-3254	P+WTBSYG	I	3.7	2.0	1	1
LN82-9648	WTTDYBl	I	1.7	2.0	1	3
M81-384	PGBDYIb	I	1.8	1.5	5	1
U83-75056	PTBDYBr	I	1.5	3.0	4	2

UNIFORM TEST II, 1987

DISEASE DATA

Strain	BTS Ames a Score	BSR-Ames Plant n %	BSR-Ames Stem n %	PR Ames Race 4	PR Vickery Tolerance Score	PS a %	PSB Lafayette n %	SMV Lafayette a Score
BSR 201	5	100	50.5	S	5.8	36	24	2M
Century 84	3	100	90.9	R	4.6	29	14	3M
Elgin 87 (II)	4	100	80.9	R	4.0	22	16	5E
Hardin (I)	2	100	73.7	S	6.6	68	30	5E
Zane (III)	3	100	84.5	S	5.0	38	20	3E
A83-273009	3	100	78.4	S	5.0	22	20	5E
A84-284033	3	100	86.5	S	6.6	42	20	3M
A85-193020	3	100	78.5	S	7.4	45	30	4E
A85-195005	3	100	58.8	S	6.0	51	16	3E
A85-291001	4	100	82.1	S	7.0	47	32	5E
A85-291010	3	90	62.7	S	5.6	54	4	5E
A85-293032	4	100	57.4	S	5.2	48	4	5E
E84159	3	100	73.9	S	5.8	56	6	1
E84165	3	100	70.8	S	5.6	60	18	2E
HM8536	3	100	74.5	S	4.8	40	30	4E
LN82-3254	3	100	75.8	H	3.8	58	18	5M
LN82-9648	3	100	76.0	R	4.6	22	8	5E
M81-384	3	100	69.0	S	5.4	55	25	3M
U83-75056	5	100	68.7	S	4.8	35	22	5M

UNIFORM TEST II, 1987

Regional Summary

No. of Tests Strain	Yield 22 bu/a	Rank 22 No.	Maturity 19 date	Lodging 22 score	Plant Height 22 in.	Seed Quality 19 score	Seed Size 19 g/100	Composition Protein 5 %	 Oil 5 %
BSR 201	46.1	18	-0.6	2.5	38	1.8	15.0	39.7	21.5
Century 84	48.8	14	+1.0	1.9	39	1.8	16.8	41.1	21.1
Elgin 87 (II)	51.8	7	9-16.5*	2.5	36	1.8	15.6	37.8	22.3
Hardin (I)	48.1	16	-7.4	2.7	39	2.1	15.1	40.3	22.4
Zane (III)	50.0	13	+6.5	2.0	40	1.9	18.6	40.5	21.6
A83-273009	53.4	2	+1.9	1.9	39	1.8	15.8	38.8	22.0
A84-284033	52.6	4	+4.9	2.1	45	2.1	17.3	38.9	22.3
A85-193020	48.7	15	-4.4	2.2	37	2.3	16.5	39.3	22.5
A85-195005	52.0	6	-1.5	2.2	38	2.2	15.5	39.3	22.2
A85-291001	55.3	1	-0.1	2.1	38	2.1	14.5	38.3	22.5
A85-291010	51.8	7	-4.8	2.1	36	2.0	15.7	38.9	22.5
A85-293032	52.1	5	+4.6	1.7	38	1.8	16.9	38.4	22.1
E84159	50.3	11	+0.5	1.5	37	1.8	17.0	39.7	22.6
E84165	51.3	10	-0.3	1.7	35	1.7	15.2	38.8	22.9
HM8536	44.9	19	-4.0	2.4	36	2.0	16.4	40.5	21.5
LN82-3254	50.2	12	+2.4	2.6	40	1.8	15.6	39.9	21.4
LN82-9648	53.1	3	+4.1	1.8	37	1.5	18.0	41.0	20.5
M81-384	51.5	9	-4.7	2.0	37	1.9	17.1	38.7	22.9
U83-75056	47.8	17	+1.5	2.3	39	1.9	16.7	39.8	21.7

*127 days after planting.

1986-1987 2-YEAR MEAN

No. of Tests	43	43	39	43	43	37	38	9	9
Century 84	49.6	6	+0.7	1.8	38	1.8	17.0	41.6	20.6
Elgin 87 (II)	51.6	3	9-19.8*	2.4	35	1.8	15.8	37.8	22.0
Hardin (I)	48.4	7	-6.0	2.6	38	2.0	14.7	39.2	22.2
Zane (III)	50.6	5	+5.4	2.0	39	1.8	18.5	39.7	21.6
A83-273009	53.6	1	+1.3	1.8	37	1.8	15.6	39.2	21.5
A84-284033	52.8	2	+4.9	2.2	44	2.0	17.4	38.5	22.0
M81-384	51.6	3	-3.8	1.9	36	1.8	17.2	38.8	22.3

*126 days after planting.

1985-1987 3-YEAR MEAN

No. of Tests								12	12
Century 84	48.1	4	+1.6	1.6	37	1.9	17.7	42.1	20.5
Elgin 87 (II)	50.6	2	9-22.1*	2.3	33	1.9	16.9	37.8	22.2
Zane (III)	49.7	3	+5.0	1.9	38	1.8	19.0	39.9	21.9
A83-273009	52.1	1	+0.8	1.8	36	1.8	16.2	39.1	21.7

*128 days after planting.

UNIFORM TEST II, 1987
YIELD (bu/a)

Strain	Mean 22 Tests	Ames IA	Halbur IA	Marshall-town IA	DeKalb IL	Pontiac IL	Urbana IL
BSR 201	46.1	49.4	41.2	59.7	62.5	36.5	57.7
Century 84	48.8	53.3	36.2	49.6	69.4	38.7	50.8
Elgin 87	51.8	58.0	44.0	63.1	74.8	42.7	60.0
Hardin (I)	48.1	55.4	41.6	55.2	63.0	38.3	51.6
Zane (III)	50.0	48.7	37.4	55.1	76.1	42.4	52.9
A83-273009	53.4	59.2	41.9	64.1	75.1	45.2	61.2
A84-284033	52.6	54.2	42.4	57.8	82.4	42.8	62.5
A85-193020	48.7	55.7	39.1	55.6	65.3	35.2	55.0
A85-195005	52.0	56.3	45.0	63.9	72.3	41.4	63.9
A85-291001	55.3	61.7	47.8	60.8	74.5	46.7	61.8
A85-291010	51.8	58.8	45.8	63.2	73.8	34.1	60.9
A85-293032	52.1	55.0	40.8	58.5	70.6	43.0	60.1
E84159	50.3	60.0	42.8	55.2	71.8	45.7	55.5
E84165	51.3	61.3	45.6	58.2	71.1	44.8	58.1
HM8536	44.9	53.8	34.4	50.5	61.6	32.7	40.2
LN82-3254	50.2	51.4	36.6	59.9	72.0	40.9	52.0
LN82-9648	53.1	55.2	36.5	57.1	75.5	47.1	53.9
M81-384	51.5	60.3	46.7	57.9	72.3	44.8	56.6
U83-75056	47.8	52.1	34.0	53.0	68.3	37.9	47.7
C.V. (%)		5.7	7.6	6.1	4.3	9.7	6.5
L.S.D. (%)		4.5	4.4	5.0	5.0	6.7	6.0
Row sp. (in.)		27	27	27	30	30	30
Rows/plot		4	4	4	4	4	4
Reps		4	4	4	3	3	3

YIELD RANK

BSR 201	18	18	11	7	18	16	9
Century 84	14	15	17	19	14	13	17
Elgin 87	7	7	6	4	5	9	7
Hardin (I)	16	10	10	14	17	14	16
Zane (III)	13	19	14	16	2	10	14
A83-273009	2	5	9	1	4	4	4
A84-284033	4	13	8	11	1	8	2
A85-193020	15	9	13	13	16	17	12
A85-195005	6	8	5	2	9	11	1
A85-291001	1	1	1	5	6	2	3
A85-291010	7	6	3	3	7	18	5
A85-293032	5	12	12	8	13	7	6
E84159	11	4	7	14	11	3	11
E84165	10	2	4	9	12	5	8
HM8536	19	14	18	18	19	19	19
LN82-3254	12	17	15	6	10	12	15
LN82-9648	3	11	16	12	3	1	13
M81-384	9	3	2	10	8	5	10
U83-75056	17	16	19	17	15	15	18

UNIFORM TEST II, 1987
YIELD (bu/a)

Strain	Bluffton IN	Lafay-ette IN	Britton MI	Saginaw MI	Lamber-ton MN	Waseca MN	Mead NE	Adelphia NJ
BSR 201	51.3	48.6	45.3	53.9	41.5	51.1	47.4	42.1
Century 84	63.7	55.9	57.4	51.6	35.9	39.5	53.6	46.5
Elgin 87	65.8	45.4	58.3	57.1	42.3	52.5	52.2	46.7
Hardin (I)	39.9	48.4	51.5	48.3	51.0	49.7	44.1	47.2
Zane (III)	52.1	49.6	56.2	60.0	36.8	47.8	53.8	47.5
A83-273009	53.2	53.7	59.5	59.7	46.7	54.5	52.4	46.4
A84-284033	52.8	69.9	58.7	61.8	42.2	51.2	61.1	49.3
A85-193020	51.4	53.2	51.2	53.8	47.5	51.8	50.7	44.6
A85-195005	51.2	55.2	54.4	57.3	46.5	58.2	51.6	49.6
A85-291001	59.3	56.5	59.1	63.0	43.3	59.6	56.0	53.7
A85-291010	51.3	41.9	54.3	58.5	54.5	55.8	54.3	46.8
A85-293032	47.9	58.2	59.3	54.8	45.8	48.3	55.5	54.9
E84159	54.9	60.2	56.6	53.8	44.3	52.0	50.6	42.9
E84165	56.7	51.1	53.5	54.8	48.3	53.9	54.1	43.8
HM8536	44.4	37.1	53.0	48.5	39.8	44.5	44.8	45.3
LN82-3254	62.1	47.4	58.2	54.9	41.8	51.2	54.3	44.2
LN82-9648	68.7	57.4	62.3	56.4	38.4	45.6	59.1	48.2
M81-384	43.4	50.0	56.0	57.4	47.5	55.2	51.6	45.5
U83-75056	60.5	48.2	59.0	44.4	37.0	45.7	52.2	45.7
C.V. (%)	16.5	10.3	7.5	12.9	6.9	9.7	6.1	10.8
L.S.D. (%)	15.0	9.0	5.9	NS	5.1	8.3	5.3	6.3
Row sp. (in.)	15	24	20	20	10	10	30	30
Rows/plot	5	4	4	4	10	10	4	4
Reps	3	3	4	4	3	3	3	3

YIELD RANK

BSR 201	13	13	19	13	14	12	17	19
Century 84	3	6	9	16	19	19	9	10
Elgin 87	2	17	7	8	10	7	12	9
Hardin (I)	19	14	17	18	2	13	19	7
Zane (III)	11	12	11	3	18	15	8	6
A83-273009	9	8	2	4	6	5	10	11
A84-284033	10	1	6	2	12	10	1	4
A85-193020	12	9	18	14	4	9	15	15
A85-195005	15	7	13	7	7	2	13	3
A85-291001	6	5	4	1	10	1	3	2
A85-291010	13	18	14	5	1	3	6	8
A85-293032	16	3	3	11	8	14	4	1
E84159	8	2	10	14	9	8	16	18
E84165	7	10	15	11	3	6	7	17
HM8536	17	19	16	17	15	18	18	14
LN82-3254	4	16	8	10	13	10	5	16
LN82-9648	1	4	1	9	16	17	2	5
M81-384	18	11	12	6	4	4	14	13
U83-75056	5	15	5	19	17	16	11	12

UNIFORM TEST II, 1987
YIELD (bu/a)

Strain	Hoyt-ville OH	Wooster OH	Harrow Ont.	Ridge-town Ont.	State College PA	Brook-ings SD	Center-ville SD	Arling-ton WI
BSR 201	19.3	22.7	59.2	49.1	23.5	46.5	49.5	56.6
Century 84	37.0	34.6	55.8	57.2	28.3	48.9	55.2	55.0
Elgin 87	38.2	31.5	59.1	56.4	27.0	53.8	58.5	52.9
Hardin (I)	23.8	32.4	63.6	66.0	24.5	50.8	51.4	59.6
Zane (III)	37.9	34.5	60.3	60.4	35.3	45.2	56.7	53.7
A83-273009	35.4	27.6	67.7	64.3	35.7	52.1	56.6	62.2
A84-284033	10.5	35.0	74.9	67.2	29.1	44.8	53.1	54.4
A85-193020	20.2	30.4	63.0	60.3	24.4	53.9	51.6	58.0
A85-195005	27.5	29.9	67.1	61.3	29.9	46.8	57.8	57.4
A85-291001	34.9	32.7	70.9	72.5	31.6	53.0	60.2	57.2
A85-291010	24.0	30.5	62.4	66.5	31.1	49.8	60.9	59.3
A85-293032	33.8	31.4	64.2	60.9	34.4	54.8	55.7	59.1
E84159	29.0	25.2	62.6	54.8	29.0	49.9	58.1	51.7
E84165	32.0	29.6	65.7	58.1	24.7	51.4	58.6	52.1
HM8536	28.7	27.8	58.3	61.5	28.9	46.4	49.1	56.1
LN82-3254	38.4	29.6	59.9	64.6	32.2	48.4	49.2	56.2
LN82-9648	45.5	34.4	61.7	63.2	33.1	47.6	57.3	65.0
M81-384	29.8	32.4	67.0	61.9	31.4	49.5	58.5	58.2
U83-75056	33.0	27.5	57.9	60.3	37.7	38.1	51.3	60.5
C.V. (%)	10.2	13.4	7.7	9.2	11.9	5.0	6.2	10.2
L.S.D. (5%)	5.1	6.7	8.0	9.5	5.9	4.0	5.6	9.5
Row sp. (in.)	30	30	24	24	30	30	30	30
Rows/plot	4	4	4	4	4	4	4	4
Reps	3	3	3	3	3	3	3	3

YIELD (bu/a)

BSR 201	18	19	15	19	19	15	17	11
Century 84	5	2	19	16	14	11	12	14
Elgin 87	3	8	16	17	15	3	4	17
Hardin (I)	16	6	8	4	17	7	15	4
Zane (III)	4	3	13	12	3	17	9	16
A83-273009	6	16	3	6	2	5	10	2
A84-284033	19	1	1	2	11	18	13	15
A85-193020	17	11	9	13	18	2	14	8
A85-195005	14	12	4	10	10	14	7	9
A85-291001	7	5	2	1	7	4	2	10
A85-291010	15	10	11	3	9	9	1	5
A85-293032	8	9	7	11	4	1	11	6
E84159	12	18	10	18	12	8	6	19
E84165	10	13	6	15	16	6	3	18
HM8536	13	15	17	9	13	16	19	13
LN82-3254	2	13	14	5	6	12	18	12
LN82-9648	1	4	12	7	5	13	8	1
M81-384	11	6	5	8	8	10	4	7
U83-75056	9	17	18	13	1	19	16	3

UNIFORM TEST II, 1987

MATURITY (date)

Strain	Mean 19 Tests	Ames IA	Halbur IA	Marshall-town IA	DeKalb IL	Pontiac IL	Urbana IL
BSR 201	-0.6	+1	--	--	+1	-2	+2
Century 84	+1.0	+1	--	--	+3	+2	+1
Elgin 87	9-16.5	9-11	--	--	9-15	9-3	9-5
Hardin (I)	-7.4	-6	--	--	-7	-5	-20
Zane (III)	+6.5	+7	--	--	+8	+8	+7
A83-273009	+1.9	+3	--	--	+1	+2	+2
A84-284033	+4.9	+6	--	--	+8	+5	+6
A85-193020	-4.4	-2	--	--	-4	-3	-8
A85-195005	-1.5	-2	--	--	0	-3	-2
A85-291001	-0.1	0	--	--	+2	+1	+2
A85-291010	-4.8	+3	--	--	-6	-4	-8
A85-293032	+4.6	+2	--	--	+5	+4	+6
E84159	+0.5	0	--	--	+2	+2	-1
E84165	-0.3	0	--	--	0	0	0
HM8536	-4.0	-4	--	--	-6	-2	-6
LN82-3254	+2.4	+4	--	--	+5	+3	+3
LN82-9648	+4.1	+4	--	--	+6	+5	+3
M81-384	-4.7	-3	--	--	-4	-5	-12
U83-75056	+1.5	0	--	--	+3	-1	-1
Date planted	5-13	5-2	5-7	5-9	5-6	5-6	5-1
Days to mature	127	132			132	120	127

LODGING (score)

	Mean 22 Tests						
BSR 201	2.5	2.0	4.3	3.1	3.2	1.8	2.3
Century 84	1.9	1.2	2.3	2.0	2.2	1.5	1.0
Elgin 87	2.5	1.4	3.9	3.2	3.0	1.5	2.0
Hardin (I)	2.7	2.9	3.7	3.0	3.2	2.2	3.3
Zane (III)	2.0	1.2	2.9	2.1	2.2	1.7	1.0
A83-273009	1.9	1.4	3.4	2.2	2.5	1.7	1.0
A84-284033	2.1	1.7	2.7	1.7	2.3	1.8	2.7
A85-193020	2.2	1.6	3.0	2.0	3.0	1.8	2.0
A85-195005	2.2	1.5	2.9	1.9	3.3	1.5	2.0
A85-291001	2.1	1.5	3.0	2.2	2.8	1.7	1.3
A85-291010	2.1	1.4	2.8	2.0	3.3	1.5	1.7
A85-293032	1.7	1.1	2.9	2.3	2.2	1.5	1.0
E84159	1.5	1.2	2.0	1.5	2.2	1.5	1.0
E84165	1.7	1.3	3.0	2.0	2.3	1.5	1.0
HM8536	2.4	1.8	3.9	3.3	3.3	1.7	1.7
LN82-3254	2.6	2.2	3.8	2.4	3.2	2.0	2.3
LN82-9648	1.8	1.2	3.0	2.5	2.3	1.7	1.0
M81-384	2.0	1.4	2.8	2.4	2.5	1.5	1.7
U83-75056	2.3	1.6	3.2	2.6	3.5	2.0	2.0

UNIFORM TEST II, 1987

MATURITY (date)

Strain	Bluffton IN	Lafay-ette IN	Britton MI	Saginaw MI	Lamber-ton MN	Waseca MN	Mead NE	Adelphia NJ
BSR 201	-3	+8	+2	-1	-5	-6	+1	0
Century 84	+1	+1	+3	+2	+1	-1	0	+1
Elgin 87	9-6	9-2	9-12	9-29	9-21	9-22	9-18	9-28
Hardin (I)	-10	-4	-7	-8	-8	-12	-12	-3
Zane (III)	+4	+10	+6	+5	+8	+6	+7	+6
A83-273009	-1	+3	-1	-1	+3	0	+7	0
A84-284033	+3	+15	+5	+4	+5	+5	+2	+5
A85-193020	-8	-2	-7	-6	-4	-6	-6	-2
A85-195005	-5	+1	-2	-2	-1	-3	-3	0
A85-291001	-2	+5	-2	-1	-1	-1	0	-1
A85-291010	-10	-5	-4	-7	-3	-5	-11	-5
A85-293032	+6	+11	+8	+2	+3	+5	+5	+5
E84159	0	+3	+1	-2	+1	-2	+4	+2
E84165	-4	+1	-2	-3	0	-1	+4	-1
HM8536	-6	-3	-5	-6	-2	-6	-6	-1
LN82-3254	-1	+5	+2	+2	+3	+3	+3	+1
LN82-9648	+4	+5	+7	+3	+3	+2	+4	+4
M81-384	-6	-4	-3	-5	-4	-6	-10	-6
U83-75056	0	+3	+3	+1	+3	-2	+4	+5
Date planted	5-13	5-4	5-7	5-13	5-14	5-7	5-18	6-11
Days to mature	116	121	128	139	130	138	123	109

LODGING (score)

BSR 201	1.2	3.0	4.0	3.5	1.7	3.0	1.7	1.0
Century 84	1.0	1.5	2.0	2.5	1.0	3.0	1.0	1.0
Elgin 87	1.5	3.2	4.0	4.3	2.0	4.0	1.3	1.7
Hardin (I)	1.0	2.2	4.8	3.0	3.3	4.3	1.3	2.0
Zane (III)	1.2	2.0	2.8	4.0	1.0	4.0	1.0	1.0
A83-273009	1.0	1.5	2.0	2.5	1.0	3.7	2.0	1.0
A84-284033	1.3	2.3	2.8	3.3	2.3	4.0	1.0	3.0
A85-193020	1.2	2.0	3.5	3.5	2.0	3.3	1.3	1.0
A85-195005	1.2	2.7	3.3	3.5	2.3	3.7	1.7	1.0
A85-291001	1.2	2.3	3.5	3.8	1.3	3.7	1.5	1.3
A85-291010	1.2	2.0	3.8	3.0	2.7	3.7	1.0	1.3
A85-293032	1.2	1.8	2.0	1.8	1.0	3.7	1.0	1.0
E84159	1.0	1.3	2.3	1.3	1.3	3.3	1.0	1.0
E84165	1.0	1.7	2.0	2.8	2.0	3.3	1.0	1.0
HM8536	1.2	2.5	3.8	2.5	2.3	4.0	1.5	2.0
LN82-3254	1.7	3.3	3.5	3.8	3.0	4.0	2.0	2.3
LN82-9648	1.2	1.7	2.5	2.5	1.0	3.3	1.2	1.0
M81-384	1.0	2.0	3.5	2.3	2.0	3.0	1.0	1.7
U83-75056	1.5	2.7	3.0	3.5	1.3	3.0	1.8	1.7

UNIFORM TEST II, 1987

MATURITY (date)

Strain	Hoyt-ville OH	Wooster OH	Harrow Ont.	Ridge-town Ont.	State College PA	Brook-ings SD	Center-ville SD	Arling-ton WI
BSR 201	-9	-2	0	-1	--	+1	0	+1
Century 84	-2	+2	0	0	--	+4	-2	+2
Elgin 87	9-11	9-4	9-25	9-26	--	9-30	9-18	9-27
Hardin (I)	-9	+1	-5	-2	--	-6	-9	-9
Zane (III)	+6	+7	+9	+6	--	+6	+5	+3
A83-273009	-1	+2	+4	+6	--	+1	+3	+3
A84-284033	+3	+7	+10	+1	--	+3	+1	-1
A85-193020	-7	-3	-1	-4	--	-1	-5	-5
A85-195005	-7	-2	+4	-1	--	-1	-1	+1
A85-291001	-2	-2	+1	-1	--	0	0	+1
A85-291010	-9	0	-2	-3	--	0	-4	-8
A85-293032	+6	+4	+5	+3	--	+2	+3	+2
E84159	-2	0	+4	+2	--	-2	-3	+1
E84165	-1	+2	+2	0	--	-1	-3	+2
HM8536	-5	-2	-4	-4	--	-1	-2	-5
LN82-3254	-2	+3	+5	+1	--	+3	0	+3
LN82-9648	+4	+7	+5	+3	--	+3	+3	+3
M81-384	-6	-2	+1	-2	--	-2	-4	-6
U83-75056	0	+2	+3	+1	--	+2	+1	+2
Date planted	5-11	5-1	5-25	5-26	5-29	5-20	5-13	5-12
Days to mature	123	126	123	123		133	128	138

LODGING (score)

BSR 201	1.3	1.3	5.0	3.7	1.0	1.0	2.3	4.0
Century 84	1.2	1.2	1.5	2.3	1.0	1.0	1.0	2.2
Elgin 87	1.3	1.3	4.0	4.0	1.0	1.0	1.0	3.7
Hardin (I)	1.2	1.5	4.5	3.0	1.0	1.0	3.0	3.8
Zane (III)	1.3	1.3	4.5	3.3	1.0	1.0	1.0	3.0
A83-273009	1.3	1.3	2.0	3.0	1.0	1.0	2.0	3.0
A84-284033	1.2	1.4	2.5	3.0	1.0	1.0	1.0	2.8
A85-193020	1.4	1.4	5.0	3.0	1.0	1.0	1.7	2.8
A85-195005	1.3	1.3	3.5	2.9	1.0	1.0	1.7	2.8
A85-291001	1.4	1.3	2.5	3.0	1.0	1.0	1.3	2.8
A85-291010	1.3	1.2	4.0	3.0	1.0	1.0	1.3	3.0
A85-293032	1.2	1.3	2.5	2.8	1.0	1.0	1.0	2.7
E84159	1.2	1.2	2.0	2.2	1.0	1.0	1.0	2.3
E84165	1.2	1.3	2.0	2.2	1.0	1.0	1.0	2.8
HM8536	1.3	1.3	4.5	3.3	1.0	1.0	1.0	3.3
LN82-3254	1.4	1.5	4.5	3.2	1.0	1.0	2.0	3.5
LN82-9648	1.3	1.3	3.0	2.6	1.0	1.0	1.0	2.8
M81-384	1.1	1.3	4.5	2.1	1.0	1.0	2.0	2.3
U83-75056	1.3	1.4	3.0	4.5	1.0	1.0	1.3	3.2

UNIFORM TEST II, 1987
PLANT HEIGHT (inches)

Strain	Mean 22 Tests	Ames IA	Halbur IA	Marshall-town IA	DeKalb IL	Pontiac IL	Urbana IL
BSR 201	38	37	41	46	38	32	38
Century 84	39	42	40	46	43	34	39
Elgin 87	36	39	36	44	34	33	39
Hardin (I)	39	40	36	48	38	40	37
Zane (III)	40	42	42	46	43	39	40
A83-273009	39	41	37	45	38	34	40
A84-284033	45	47	40	56	52	42	50
A85-193020	37	41	37	42	41	36	36
A85-195005	38	39	39	46	40	35	38
A85-291001	38	39	39	44	40	35	38
A85-291010	36	36	37	42	36	33	37
A85-293032	38	40	39	46	44	34	40
E84159	37	42	36	46	39	35	37
E84165	35	38	34	44	37	33	36
HM8536	36	41	35	40	40	34	36
LN82-3254	40	43	40	48	45	37	43
LN82-9648	37	40	36	43	39	34	37
M81-384	37	38	37	44	39	35	35
U83-75056	39	41	38	43	41	35	40

SEED QUALITY (score)

	Mean 19 Tests						
BSR 201	1.8	3.0	--	--	1.3	1.4	1.7
Century 84	1.8	4.0	--	--	1.1	1.6	1.8
Elgin 87	1.8	3.0	--	--	1.1	1.2	1.6
Hardin (I)	2.1	4.0	--	--	2.0	1.8	1.9
Zane (III)	1.9	4.0	--	--	1.2	1.5	2.5
A83-273009	1.8	3.0	--	--	1.1	1.4	1.9
A84-284033	2.1	3.0	--	--	1.1	1.7	2.4
A85-193020	2.3	3.0	--	--	1.3	1.8	1.8
A85-195005	2.2	3.0	--	--	1.1	1.9	1.8
A85-291001	2.1	2.0	--	--	1.2	1.8	2.5
A85-291010	2.0	3.0	--	--	1.6	2.0	1.8
A85-293032	1.8	4.0	--	--	1.1	1.5	2.2
E84159	1.8	2.0	--	--	1.1	1.6	1.9
E84165	1.7	2.0	--	--	1.1	1.6	1.5
HM8536	2.0	4.0	--	--	1.1	1.7	2.5
LN82-3254	1.8	3.0	--	--	1.1	1.7	1.8
LN82-9648	1.5	3.0	--	--	1.2	1.4	1.8
M81-384	1.9	4.0	--	--	1.3	1.6	1.8
U83-75056	1.9	3.0	--	--	1.2	1.4	2.1

UNIFORM TEST II, 1987
PLANT HEIGHT (inches)

Strain	Bluffton IN	Lafay-ette IN	Britton MI	Saginaw MI	Lamber-ton MN	Waseca MN	Mead NE	Adelphia NJ
BSR 201	30	39	42	40	49	47	36	30
Century 84	34	43	41	39	49	48	34	31
Elgin 87	31	40	38	41	44	43	34	30
Hardin (I)	26	40	45	46	50	44	34	31
Zane (III)	29	43	44	44	50	51	37	32
A83-273009	31	39	41	38	49	44	45	32
A84-284033	34	53	49	55	56	52	36	39
A85-193020	31	40	41	43	48	42	34	30
A85-195005	28	39	40	42	46	46	35	32
A85-291001	29	41	42	43	48	47	36	31
A85-291010	28	39	39	42	45	41	33	28
A85-293032	30	42	40	40	46	49	35	32
E84159	29	38	41	40	47	42	34	28
E84165	28	37	39	39	46	42	32	26
HM8536	27	39	40	40	42	45	32	30
LN82-3254	34	43	42	45	49	45	38	33
LN82-9648	32	39	40	39	47	43	33	30
M81-384	29	38	41	41	46	45	32	28
U83-75056	35	43	42	44	47	46	36	32

SEED QUALITY (score)

BSR 201	1.0	3.0	1.0	1.5	1.7	2.0	2.0	1.0
Century 84	1.0	1.5	1.0	1.0	1.7	2.0	2.0	2.0
Elgin 87	1.0	2.0	1.0	1.8	1.7	1.7	1.2	1.0
Hardin (I)	1.5	2.0	1.3	1.5	2.0	2.0	2.3	2.3
Zane (III)	1.0	3.0	1.0	2.0	1.3	2.0	2.0	1.0
A83-273009	1.0	1.0	1.0	1.8	1.3	2.3	1.8	1.7
A84-284033	1.5	2.0	2.0	1.3	2.3	1.7	1.5	1.7
A85-193020	1.5	2.0	1.8	1.8	2.0	2.0	2.0	3.3
A85-195005	1.0	2.5	1.5	1.8	1.7	1.7	1.8	2.3
A85-291001	1.0	3.0	1.3	1.5	1.7	2.3	1.3	3.3
A85-291010	1.5	1.5	1.5	1.3	1.7	2.3	2.0	2.0
A85-293032	1.0	1.5	1.3	1.3	1.3	1.7	1.7	1.7
E84159	1.0	1.5	1.3	1.5	1.3	2.0	2.0	2.0
E84165	1.0	1.0	1.0	1.8	1.3	2.0	1.3	1.7
HM8536	1.0	2.0	1.3	2.0	2.0	2.0	1.7	1.7
LN82-3254	1.0	1.5	1.0	1.0	1.7	1.7	1.7	2.0
LN82-9648	1.0	1.5	1.3	1.3	1.3	2.0	1.7	1.0
M81-384	1.5	1.5	1.5	1.8	1.3	2.0	2.0	2.0
U83-75056	1.5	1.5	2.0	1.5	1.7	2.3	2.2	1.3

UNIFORM TEST II, 1987
PLANT HEIGHT (inches)

Strain	Hoyt-ville OH	Wooster OH	Harrow Ont.	Ridge-town Ont.	State College PA	Brook-ings SD	Center-ville SD	Arling-ton WI
BSR 201	21	26	42	42	20	44	48	39
Century 84	27	29	44	41	25	46	50	41
Elgin 87	25	27	43	35	21	38	43	38
Hardin (I)	20	33	44	45	22	45	53	42
Zane (III)	28	29	42	42	26	44	48	42
A83-273009	28	31	42	38	27	41	57	37
A84-284033	21	38	53	50	21	50	46	44
A85-193020	24	30	41	40	20	42	43	38
A85-195005	24	28	45	41	24	45	43	40
A85-291001	27	30	42	41	22	41	45	39
A85-291010	22	29	44	36	22	43	44	38
A85-293032	24	26	44	42	23	42	45	40
E84159	26	28	43	38	20	43	47	38
E84165	24	26	40	36	19	41	44	36
HM8536	28	29	39	34	21	43	44	38
LN82-3254	29	32	46	43	26	41	47	41
LN82-9648	27	28	41	40	22	45	44	40
M81-384	21	26	42	40	22	44	47	38
U83-75056	30	32	40	41	28	44	48	42

SEED QUALITY (score)

BSR 201	3.8	--	2.0	2.0	1.7	2.0	2.0	1.0
Century 84	2.1	--	1.0	2.0	1.7	2.0	3.0	1.0
Elgin 87	2.2	--	2.3	2.3	2.0	3.0	3.0	1.0
Hardin (I)	3.0	--	2.0	2.0	2.2	2.0	3.0	1.0
Zane (III)	1.7	--	2.0	2.0	1.0	3.0	3.0	1.0
A83-273009	2.3	--	2.7	2.7	2.2	2.0	2.0	1.0
A84-284033	4.6	--	2.3	2.3	2.3	3.0	3.0	1.0
A85-193020	4.1	--	4.0	3.0	2.3	3.0	2.0	1.0
A85-195005	4.3	--	3.0	2.7	2.2	3.0	3.0	1.0
A85-291001	2.3	--	3.0	2.0	2.0	3.0	3.0	1.0
A85-291010	2.2	--	2.0	2.3	2.0	3.0	3.0	1.0
A85-293032	2.6	--	2.0	1.7	1.5	3.0	3.0	1.0
E84159	2.1	--	2.0	2.3	2.0	3.0	2.0	1.0
E84165	2.2	--	2.3	2.7	2.0	2.0	2.0	1.0
HM8536	2.2	--	2.0	2.0	2.0	3.0	3.0	1.0
LN82-3254	1.7	--	1.7	2.0	1.8	4.0	3.0	1.0
LN82-9648	1.6	--	1.0	1.7	1.3	2.0	2.0	1.0
M81-384	2.0	--	2.7	2.0	1.7	2.0	2.0	1.0
U83-75056	2.1	--	2.0	2.0	1.8	3.0	3.0	1.0

UNIFORM TEST II, 1987
SEED SIZE (g/100)

Strain	Mean 19 Tests	Ames IA	Halbur IA	Marshall-town IA	DeKalb IL	Pontiac IL	Urbana IL
BSR 201	15.0	14.2	--	--	15.8	12.4	15.7
Century 84	16.8	14.4	--	--	17.2	14.9	15.0
Elgin 87	15.6	14.2	--	--	16.7	12.6	15.3
Hardin (I)	15.1	14.6	--	--	16.2	13.2	15.5
Zane (III)	18.6	16.6	--	--	19.4	17.0	17.4
A83-273009	15.8	14.8	--	--	17.0	12.9	16.3
A84-284033	17.3	16.2	--	--	20.8	15.2	17.7
A85-193020	16.5	15.4	--	--	18.4	15.0	17.1
A85-195005	15.5	14.0	--	--	17.4	13.9	15.3
A85-291001	14.5	13.2	--	--	16.2	11.7	14.3
A85-291010	15.7	14.8	--	--	17.8	13.3	16.1
A85-293032	16.9	14.4	--	--	17.6	14.4	15.5
E84159	17.0	16.1	--	--	17.3	16.1	17.5
E84165	15.2	15.2	--	--	16.9	14.2	15.6
HM8536	16.4	15.6	--	--	17.7	14.8	15.7
LN82-3254	15.6	14.2	--	--	17.0	12.6	15.3
LN82-9648	18.0	20.0	--	--	18.8	15.4	15.5
M81-384	17.1	15.4	--	--	18.8	14.8	16.3
U83-75056	16.7	15.9	--	--	17.9	13.3	15.9

UNIFORM TEST II, 1987
SEED SIZE (g/100)

Strain	Bluffton IN	Lafay-ette IN	Britton MI	Saginaw MI	Lamber-ton MN	Waseca MN	Mead NE	Adelphia NJ
BSR 201	12.4	15.3	15.9	19.2	13.9	15.1	16.7	14.7
Century 84	15.5	16.4	18.3	20.8	14.9	15.5	17.0	17.0
Elgin 87	14.5	14.4	17.4	18.9	13.3	14.6	14.8	16.0
Hardin (I)	13.7	15.7	15.1	17.0	13.0	13.2	14.8	13.3
Zane (III)	16.9	17.8	21.4	22.4	16.8	17.2	20.8	19.0
A83-273009	13.0	15.1	17.2	18.2	13.4	13.8	18.6	15.0
A84-284033	16.4	16.4	19.5	21.9	15.8	16.2	16.8	16.7
A85-193020	15.2	18.7	17.3	19.3	15.6	16.0	16.4	15.7
A85-195005	14.3	16.1	16.9	17.8	14.0	15.0	16.5	15.7
A85-291001	13.1	14.3	15.5	18.3	12.2	14.2	13.8	14.7
A85-291010	14.5	15.2	17.4	18.1	14.3	15.1	16.3	14.7
A85-293032	15.1	15.9	19.1	21.5	14.1	15.4	17.2	18.3
E84159	16.0	18.4	17.9	19.3	15.3	15.6	17.9	17.0
E84165	14.0	15.8	16.2	16.7	13.6	14.8	16.6	14.3
HM8536	14.7	16.5	17.7	17.6	16.2	16.3	16.6	16.3
LN82-3254	13.3	14.8	16.9	18.5	14.4	14.6	15.9	15.3
LN82-9648	16.4	17.1	20.3	21.0	15.0	16.0	17.5	17.7
M81-384	16.4	15.8	19.4	21.0	15.7	14.9	17.2	16.3
U83-75056	15.7	16.9	18.8	19.1	15.5	15.1	16.7	17.3

UNIFORM TEST II, 1987
SEED SIZE (g/100)

Strain	Hoyt-ville OH	Wooster OH	Harrow Ont.	Ridge-town Ont.	State College PA	Brook-ings SD	Center-ville SD	Arling-ton WI
BSR 201	13.2	--	16.2	15.7	10.1	15.6	16.6	16.8
Century 84	14.6	--	18.6	19.5	14.2	19.2	17.5	18.0
Elgin 87	13.8	--	19.0	19.5	12.4	16.8	15.3	16.7
Hardin (I)	13.4	--	15.8	16.9	9.4	14.8	25.0	16.8
Zane (III)	16.5	--	21.2	15.8	18.0	19.6	17.4	21.7
A83-273009	13.1	--	16.9	17.6	16.7	15.5	15.0	19.5
A84-284033	15.6	--	20.8	19.8	12.4	17.2	17.3	16.3
A85-193020	13.1	--	19.1	18.1	12.0	17.2	16.7	16.7
A85-195005	12.4	--	16.4	16.9	11.4	15.3	16.8	17.3
A85-291001	11.2	--	18.9	17.7	9.6	15.0	15.4	15.3
A85-291010	12.6	--	17.8	17.3	12.5	15.8	17.2	16.6
A85-293032	15.3	--	18.6	18.6	17.6	17.8	16.8	17.7
E84159	15.3	--	16.7	16.8	16.1	17.2	17.8	18.2
E84165	11.9	--	15.6	16.3	11.9	16.2	15.8	16.7
HM8536	12.6	--	16.8	19.3	13.2	17.8	17.7	18.3
LN82-3254	13.2	--	17.5	18.1	14.5	16.8	15.7	17.0
LN82-9648	17.6	--	18.9	21.2	17.0	18.8	17.0	20.4
M81-384	14.3	--	18.7	19.6	14.6	18.2	17.1	19.5
U83-75056	14.9	--	17.8	18.1	16.7	16.8	17.0	18.0

UNIFORM TEST II, 1987
PROTEIN (%)

Strain	Mean 5 Tests	Urbana IL	Lafayette IN	Ames IA	Mead NE	Hoytville OH
BSR 201	39.7	42.4	39.0	40.8	40.0	36.4
Century 84	41.1	42.8	39.2	41.1	42.2	40.2
Elgin 87	37.8	39.5	38.1	36.4	38.3	36.6
Hardin (I)	40.3	40.4	41.7	40.4	41.4	37.4
Zane (III)	40.5	41.7	42.2	38.7	41.7	38.0
A83-273009	38.8	39.3	40.6	38.0	38.5	37.7
A84-284033	38.9	39.4	40.7	38.6	38.4	37.5
A85-193020	39.3	39.9	39.7	40.3	40.0	36.8
A85-195005	39.3	40.4	39.9	38.8	40.1	37.2
A85-291001	38.3	39.1	41.8	37.3	37.4	36.0
A85-291010	38.9	40.2	38.7	39.2	39.1	37.1
A85-293032	38.4	40.0	40.0	38.8	38.4	34.9
E84159	39.7	40.5	39.6	40.2	41.4	36.9
E84165	38.8	38.7	40.8	38.0	39.1	37.4
HM8536	40.5	42.1	39.3	41.1	40.1	40.1
LN82-3254	39.9	40.7	41.4	40.2	39.8	37.5
LN82-9648	41.0	42.7	39.8	41.4	41.8	39.3
M81-384	38.7	39.2	40.3	38.8	39.6	35.4
U83-75056	39.8	42.4	40.6	39.3	39.5	37.3

OIL (%)

BSR 201	21.5	21.3	22.5	20.4	20.4	22.7
Century 84	21.1	20.8	23.3	20.2	19.6	21.4
Elgin 87	22.3	22.3	23.0	22.8	21.1	22.4
Hardin (I)	22.4	22.6	20.8	22.7	21.7	24.0
Zane (III)	21.6	21.7	21.1	21.5	20.5	23.3
A83-273009	22.0	22.4	22.6	21.3	21.1	22.5
A84-284033	22.3	22.7	23.1	21.3	21.5	22.9
A85-193020	22.5	23.0	22.4	21.8	21.7	23.8
A85-195005	22.2	21.7	22.4	21.4	21.7	23.9
A85-291001	22.5	23.5	21.0	22.2	22.5	23.3
A85-291010	22.5	22.6	23.2	21.6	21.6	23.4
A85-293032	22.1	20.8	22.8	21.1	22.2	23.5
E84159	22.6	23.3	22.2	22.1	21.5	24.1
E84165	22.9	23.2	21.9	22.8	22.7	23.7
HM8536	21.5	21.0	23.4	20.6	21.1	21.5
LN82-3254	21.4	21.7	21.6	20.2	20.9	22.8
LN82-9648	20.5	19.5	23.5	19.4	19.2	20.7
M81-384	22.9	22.4	22.9	22.0	22.0	25.0
U83-75056	21.7	21.6	21.9	20.9	21.2	22.9

PRELIMINARY TEST IIA, 1987

Strain	Parentage	Generation Composited
Elgin 87 (II)	Elgin (5) X Williams 82	BC4 F2
Hardin (I)	Corsoy (3) X Cutler 71	F5
Zane (III)	Cumberland X Pella	F5
A86-103017	A80-244036 X Midwest Oilseeds 2050	F5
A86-104021	Zane X Stine 3200	F5
A86-105011	L80-4349 X Tri-Valley Charger	F5
A86-201030	A80-244036 X Midwest Oilseeds 2050	F5
A86-202022	Midwest Oilseeds 2050 X Stine 3200	F5
A86-202026	A80-244036 X Midwest Oilseeds 2050	F5
A86-202027	A80-244036 X Midwest Oilseeds 2050	F5
A86-202031	Midwest Oilseeds 2050 X Northrup King S1346	F5
A86-203004	Hack X Zane	F5
A86-203034	A81-356022 X Zane	F5
A86-204013	A80-244036 X A80-344003	F5
A86-204022	Hack X Zane	F5
A86-204030	Tri-Valley Charger X A81-356022	F5
A86-205035	Tri-Valley Charger X A81-356022	F5
A85D24	Elf X (Hark X Wayne)	F5
A86D5	Elf X (Amsoy X Harosoy Dt2)	F5
A86D6	Elf X (Amsoy X Harosoy Dt2)	F5
HS84-6224	HW79015 (2) X HW79149	BC1 F3
HS84-6247	Zane (3) X HW79149	BC2 F3
LN84-7513	Hack X Elgin	F5
LN84-8339	Hack X Harper	F5
LN84-8527	Hack X Harper	F5
LN84-8588	Hack X Harper	F5
LN84-9050	Hack X A79-334010	F5
LN84-10413	Williams 82 X LN80-8309	F5
LN84-10573	Williams 82 X LN80-8309	F5
LN84-11185	Williams 82 X LN80-8309	F5
LN84-13367	Northrup King S1492 X Harper	F5
LN84-15574	LN80-9447 X Asgrow A3127	F5
LN84-19560	LN80-9479 X Asgrow A3127	F5
LN84-20654	Hack X LN80-8309	F5
LN84-21154	Hack X LN80-8309	F5
LN84-21732	Hack X Asgrow A3127	F5
U84-62077	U59245 X Century	F6
U84-64041	Williams X U57141	F5
U84-64045	Williams X U57141	F5
U84-65078	A74-305031 X Mead	F5

PRELIMINARY TEST IIA, 1987

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code		Chlorosis Score Ames	Shattering Score Manhatten	BSR - Ames Plant n %	BSR - Ames Stem n %
Elgin 87 (II)	PTBSYBl	I	3.8	2	80	64.6
Hardin (I)	PGBDYY	I	3.8	1	100	51.2
Zane (III)	PGBDYIb	I	3.5	1	100	66.6
A86-103017	PTBSYG	I	4.0	1	90	73.5
A86-104021	PGBDYIb	I	3.0	1	60	38.1
A86-105011	P+WTBDYBr	I	3.0	1	100	64.9
A86-201030	PTBSYY	I	4.3	1	100	88.2
A86-202022	P+WGBDY	I	3.0	1	90	45.7
A86-202026	PTBDYY	I	3.3	1	100	79.9
A86-202027	PTBDYBr	I	3.3	1	90	73.0
A86-202031	PGBDYY	I	3.5	1	100	71.4
A86-203004	PGBSYIb	I	4.2	1	100	59.8
A86-203034	PGBDYIb	I	4.0	1	100	37.5
A86-204013	WTBSYBl	I	3.0	1	90	31.5
A86-204022	PGBSYIb	I	4.8	2	100	57.3
A86-204030	PTBDYBl	I	3.8	2	80	31.5
A86-205035	PTBDYBl+Br	I	3.8	2	70	36.1
A85D24	PGTDYIb	I	2.3	1	100	91.5
A86D5	PGTDYIb	SD	3.5	1	100	57.4
A86D6	PTTDYBl	SD	3.8	1	100	80.4
HS84-6224	PGBDYIb	I	3.3	1	100	72.8
HS84-6247	PGBSYIb	I	4.0	1	90	64.9
LN84-7513	WTTSYBl	I	3.8	1	100	85.0
LN84-8339	P+WTBSYBl	I	4.5	1	100	75.4
LN84-8527	PTBSYBl	I	4.8	1	100	70.3
LN84-8588	WGTSYBf	I	3.3	2	100	77.9
LN84-9050	PGTDYIb	I	4.7	2	100	76.3
LN84-10413	WTTSYBl	I	2.7	2	100	87.5
LN84-10573	WTTDYBl	I	3.8	2	90	59.6
LN84-11185	WTBDYBl	I	3.3	2	100	55.4
LN84-13367	PGBDYIb	I	4.8	1	100	76.9
LN84-15574	WTTDYBl	I	3.5	1	100	67.0
LN84-19560	WTTDYBl	I	2.5	1	90	61.9
LN84-20654	WTTSYBl	I	2.7	3	100	80.6
LN84-21154	PGTSYIb	I	2.3	1	100	78.8
LN84-21732	PTTDYBl	I	4.3	1	100	78.5
U84-62077	PTTDYBr	I	3.5	1	100	82.0
U84-64041	PTBDYBl	I	3.7	1	100	60.8
U84-64045	PTBDYBl	I	2.2	1	90	63.5
U84-65078	WTBDYBl	I	4.5	1	100	68.5

PRELIMINARY TEST IIA, 1987

DISEASE DATA

Strain	BP Urbana Score	PR Ames Race 4	PR Vickery Tolerance Score	PS Lafayette a %	PSB Lafayette n %	SMV a Score
Elgin 87 (II)	1.0	R	6.4	22	16	5E
Hardin (I)	1.0	S	4.6	68	30	5E
Zane (III)	1.0	R	5.0	38	20	3E
A86-103017	4.0	H	5.4	26	22	5E
A86-104021	3.5	H	5.6	22	16	4E
A86-105011	1.0	R	4.8	14	16	2E
A86-201030	1.0	S	5.4	32	14	5E
A86-202022	1.0	S	5.4	38	10	4E
A86-202026	1.0	H	5.8	19	28	5E
A86-202027	1.0	H	5.0	35	16	5E
A86-202031	1.0	S	6.2	20	14	5E
A86-203004	1.5	S	4.8	30	16	3E
A86-203034	3.0	H	4.6	24	18	4E
A86-204013	4.3	S	6.8	28	22	5E
A86-204022	2.5	S	5.8	25	10	5E
A86-204030	1.0	S	6.8	21	6	5E
A86-205035	2.5	S	5.0	15	10	5E
A85D24	1.0	S	6.2	10	6	5E
A86D5	1.0	S	8.4	50	16	3E
A86D6	1.0	S	6.4	29	4	2E
HS84-6224	1.0	H	4.6	41	6	2E
HS84-6247	3.5	R	5.2	26	2	3E
LN84-7513	1.0	S	6.8	36	16	5E
LN84-8339	1.0	S	6.6	22	4	4E
LN84-8527	1.0	S	5.8	30	26	4E
LN84-8588	1.0	R	5.8	33	34	3E
LN84-9050	1.0	H	6.2	63	18	3E
LN84-10413	2.5	R	4.4	17	20	4E
LN84-10573	1.0	H	4.6	15	14	5E
LN84-11185	1.3	R	3.6	26	32	4E
LN84-13367	1.0	S	7.6	34	22	-
LN84-15574	4.0	H	6.4	4	6	3E
LN84-19560	1.0	S	4.6	29	10	3E
LN84-20654	1.0	R	4.6	50	20	3E
LN84-21154	1.0	S	6.2	29	16	2E
LN84-21732	3.5	S	4.6	27	12	5E
U84-62077	1.0	S	6.4	44	10	3M
U84-64041	1.5	H	6.0	25	18	5E
U84-64045	1.0	S	5.8	45	20	4E
U84-65078	1.0	S	5.4	63	12	5E

PRELIMINARY TEST IIA, 1987

Regional Summary

No. of Tests Strain	Yield 10 bu/a	Rank 10 No.	Maturity 9 date	Lodging 10 score	Plant Height 10 in.	Seed Quality 9 score	Seed Size 9 g/100	Composition Protein 5 %	 Oil 5 %
Elgin 87 (II)	53.5	8	9-16.2*	2.1	37	1.6	15.2	37.8	22.5
Hardin (I)	45.7	38	-7.4	2.8	38	2.4	14.6	39.6	22.5
Zane (III)	52.4	18	+5.9	1.8	41	2.3	18.8	39.3	21.8
A86-103017	53.0	12	+1.3	1.9	33	2.4	16.8	39.5	22.0
A86-104021	48.0	36	+4.6	1.5	37	2.7	18.3	40.0	20.9
A86-105011	53.2	9	+0.9	1.8	37	2.7	16.4	41.0	20.9
A86-201030	53.1	10	-1.3	2.2	36	2.1	14.8	38.3	22.2
A86-202022	53.8	7	+2.8	1.7	38	2.4	15.6	39.3	21.3
A86-202026	55.1	3	+3.0	2.2	38	2.3	17.1	39.4	21.5
A86-202027	55.0	4	+1.2	2.1	35	1.9	17.4	39.6	21.4
A86-202031	53.1	10	+4.7	2.4	40	2.0	15.1	38.1	22.2
A86-203004	56.3	1	+4.7	1.7	41	1.9	17.7	38.5	22.4
A86-203034	54.5	5	+3.4	2.2	41	1.9	18.2	39.9	21.2
A86-204013	52.3	19	+2.2	1.7	37	2.0	19.6	39.8	21.2
A86-204022	56.3	1	+3.6	2.1	40	2.0	18.5	39.4	21.8
A86-204030	52.7	16	+3.8	1.8	40	1.8	17.1	41.6	20.0
A86-205035	52.1	23	+3.0	1.7	41	1.9	16.0	40.0	20.9
A85D24	40.0	40	+1.7	1.3	22	1.5	14.7	40.3	21.6
A86D5	42.5	39	-3.9	1.7	33	2.0	15.6	38.1	23.2
A86D6	50.4	30	+2.0	2.0	39	1.8	17.3	39.6	21.1
HS84-6224	51.9	25	+0.3	1.6	35	1.7	16.5	38.5	22.0
HS84-6247	54.4	6	+3.1	1.8	40	1.9	18.1	38.2	22.6
LN84-7513	51.9	25	+5.7	1.6	40	1.5	16.4	38.0	21.8
LN84-8339	52.2	21	+6.6	1.5	37	2.0	18.5	40.1	21.7
LN84-8527	53.0	12	-1.0	1.6	35	1.8	17.8	38.5	22.5
LN84-8588	51.7	27	-0.6	1.4	37	1.7	15.5	38.0	21.5
LN84-9050	49.8	34	+0.2	1.6	40	2.2	15.6	40.9	21.5
LN84-10413	52.3	19	+2.2	1.5	40	1.6	17.0	40.3	20.6
LN84-10573	51.3	28	+5.4	1.7	41	1.6	16.9	39.6	21.5
LN84-11185	50.9	29	+8.7	1.9	43	2.0	18.5	39.2	21.3
LN84-13367	49.9	33	+0.1	1.5	36	2.2	17.6	38.6	22.5
LN84-15574	52.8	15	+3.8	1.8	39	1.3	13.5	39.9	20.7
LN84-19560	53.0	12	+6.8	2.2	40	1.9	15.6	39.4	21.9
LN84-20654	52.1	23	+1.1	1.6	40	2.2	15.1	40.1	21.4
LN84-21154	52.6	17	+2.4	1.8	42	2.0	16.1	39.1	21.8
LN84-21732	52.2	21	+4.8	1.8	40	1.6	15.9	39.0	21.5
U84-62077	50.3	31	+0.8	1.7	38	2.8	17.1	39.9	21.1
U84-64041	47.3	37	+4.3	1.9	41	1.5	17.8	38.3	21.8
U84-64045	48.2	35	+3.2	1.8	41	1.9	18.1	38.6	22.0
U84-65078	50.2	32	+5.1	2.4	42	2.9	14.3	37.8	21.2

*127 days after planting.

PRELIMINARY TEST IIA, 1987
YIELD (bu/a)

Strain	Mean 10 Tests	Ames IA	Marshalltown IA	Urbana IL	Lafayette IN
Elgin 87 (II)	53.5	57.8	67.9	60.4	46.4
Hardin (I)	45.7	54.8	54.0	46.6	40.9
Zane (III)	52.4	54.3	59.4	60.1	46.3
A86-103017	53.0	65.4	61.2	57.8	47.3
A86-104021	48.0	57.0	63.6	61.6	47.3
A86-105011	53.2	63.6	63.8	57.8	53.7
A86-201030	53.1	69.0	65.8	62.0	52.9
A86-202022	53.8	65.2	61.3	59.4	52.0
A86-202026	55.1	64.5	67.7	68.3	51.1
A86-202027	55.0	70.4	67.3	59.3	50.4
A86-202031	53.1	59.8	74.0	59.4	43.3
A86-203004	56.3	61.9	57.7	67.2	52.2
A86-203034	54.5	58.6	63.2	61.1	56.7
A86-204013	52.3	57.5	64.8	51.4	54.3
A86-204022	56.3	60.7	70.3	63.5	52.4
A86-204030	52.7	64.8	62.0	68.8	52.0
A86-205035	52.1	54.0	64.3	60.6	51.9
A85D24	40.0	47.1	51.5	28.5	31.3
A86D5	42.5	54.7	52.5	43.1	39.1
A86D6	50.4	55.8	56.9	51.9	48.7
HS84-6224	51.9	57.8	58.8	63.7	49.3
HS84-6247	54.4	57.3	65.6	60.6	53.1
LN84-7513	51.9	57.2	58.7	62.1	48.6
LN84-8339	52.2	59.7	63.4	62.0	46.7
LN84-8527	53.0	64.1	64.3	63.2	46.7
LN84-8588	51.7	64.6	61.8	57.9	43.6
LN84-9050	49.8	59.2	59.4	58.5	46.8
LN84-10413	52.3	56.1	62.5	57.4	53.0
LN84-10573	51.3	56.8	56.0	60.3	46.8
LN84-11185	50.9	52.7	57.0	56.0	43.7
LN84-13367	49.9	56.6	53.5	57.2	50.7
LN84-15574	52.8	62.8	60.8	56.9	48.6
LN84-19560	53.0	56.4	58.8	62.6	44.7
LN84-20654	52.1	61.3	64.0	59.9	47.2
LN84-21154	52.6	58.5	51.4	59.3	57.4
LN84-21732	52.5	53.5	62.5	52.9	53.9
U84-62077	50.3	59.9	53.5	63.2	49.9
U84-64041	47.3	54.0	49.3	52.6	46.3
U84-64045	48.2	53.2	50.3	57.2	53.7
U84-65078	50.2	55.6	52.9	59.6	39.7
C.V. (%)		6.4	8.6	8.1	9.0
L.S.D. (%)		7.5	10.3	9.1	8.9
Row sp. (in.)		27	27	30	24
Rows/plot		4	4	4	4
Reps		2	2	2	2

PRELIMINARY TEST IIA, 1987
YIELD (bu/a)

Strain	Britton MI	Mead NE	Adelphia NJ	Hoytville OH	Centerville SD	Arlington WI
Elgin 87 (II)	55.7	50.9	50.7	35.9	54.4	54.6
Hardin (I)	47.1	42.4	40.9	18.9	47.2	64.3
Zane (III)	54.7	50.7	47.9	38.1	49.3	63.4
A86-103017	53.8	48.1	48.8	27.4	59.2	60.5
A86-104021	50.4	51.9	50.9	29.9	53.1	59.4
A86-105011	51.7	47.9	42.4	36.4	60.9	53.3
A86-201030	46.0	56.6	23.4	27.9	60.4	67.4
A86-202022	45.9	57.8	43.5	31.6	52.9	59.3
A86-202026	49.4	58.3	45.1	30.6	56.0	60.2
A86-202027	49.3	54.9	48.1	30.1	58.0	62.1
A86-202031	56.4	51.1	44.6	30.2	49.2	62.5
A86-203004	59.4	53.1	52.2	37.4	54.4	67.8
A86-203034	53.1	49.9	52.6	37.4	53.2	58.8
A86-204013	54.1	52.0	50.3	26.4	58.0	54.5
A86-204022	55.3	52.2	49.5	35.8	54.1	69.5
A86-204030	46.2	56.2	51.9	8.9	57.1	59.5
A86-205035	52.6	51.5	51.8	22.4	60.2	60.5
A85D24	39.3	32.2	40.2	25.3	43.7	60.6
A86D5	44.4	48.0	39.3	6.2	47.8	49.8
A86D6	48.4	54.8	45.7	39.6	54.3	48.2
HS84-6224	46.0	50.5	46.1	38.3	56.3	52.0
HS84-6247	54.2	52.8	45.0	40.5	52.3	62.9
LN84-7513	51.2	54.7	36.1	36.9	53.1	60.6
LN84-8339	49.0	47.0	44.0	30.7	59.6	59.5
LN84-8527	47.6	52.3	39.4	35.9	59.5	56.6
LN84-8588	49.5	51.2	40.5	31.2	61.9	54.4
LN84-9050	43.8	45.9	39.5	34.3	51.4	59.4
LN84-10413	50.7	50.5	46.6	41.5	49.7	54.5
LN84-10573	49.5	50.4	46.3	36.7	54.7	55.5
LN84-11185	58.3	46.9	47.1	43.0	48.4	55.8
LN84-13367	50.6	50.9	41.5	28.2	52.6	57.2
LN84-15574	51.9	49.4	38.9	39.8	55.1	63.9
LN84-19560	51.8	51.3	48.9	43.4	51.6	60.7
LN84-20654	49.8	48.1	40.5	31.2	57.3	61.2
LN84-21154	50.3	49.7	44.5	34.0	60.0	60.4
LN84-21732	53.6	48.4	46.1	38.2	54.0	61.4
U84-62077	48.5	51.6	40.8	28.0	56.6	50.9
U84-64041	47.9	49.0	39.7	31.2	50.3	52.2
U84-64045	45.0	51.6	52.4	37.4	42.2	39.1
U84-65078	49.2	55.0	48.3	30.7	53.5	57.2
C.V. (%)	7.2	5.9	16.0	9.0	6.8	7.3
L.S.D. (%)	7.3	4.9	14.0	5.9	7.3	8.6
Row sp. (in.)	20	30	30	30	30	30
Rows/plot	4	2	4	4	4	4
Reps	2	2	2	2	2	2

PRELIMINARY TEST IIA, 1987
YIELD RANK

Strain	Mean 10 Tests	Ames IA	Marshalltown IA	Urbana IL	Lafayette IN
Elgin 87 (II)	8	20	3	16	30
Hardin (I)	38	32	32	38	37
Zane (III)	18	34	23	18	31
A86-103017	12	3	21	27	23
A86-104021	36	25	13	12	23
A86-105011	9	9	12	27	5
A86-201030	10	2	6	10	9
A86-202022	7	4	20	21	12
A86-202026	3	7	4	2	15
A86-202027	4	1	5	23	17
A86-202031	10	15	1	21	36
A86-203004	1	11	28	3	11
A86-203034	5	18	15	13	2
A86-204013	19	22	8	37	3
A86-204022	1	13	2	5	10
A86-204030	16	5	18	1	13
A86-205035	23	35	9	14	14
A85D24	40	40	37	40	40
A86D5	39	33	36	39	39
A86D6	30	30	30	36	20
HS84-6224	25	20	25	4	19
HS84-6247	6	23	7	14	7
LN84-7513	25	24	27	9	21
LN84-8339	21	16	14	10	28
LN84-8527	12	8	9	6	28
LN84-8588	27	6	19	26	35
LN84-9050	34	17	23	25	26
LN84-10413	19	29	16	29	8
LN84-10573	28	26	31	17	27
LN84-11185	29	39	29	33	34
LN84-13367	33	27	33	30	16
LN84-15574	15	10	22	32	21
LN84-19560	12	28	25	8	33
LN84-20654	23	12	11	19	25
LN84-21154	17	19	38	23	1
LN84-21732	21	37	16	34	4
U84-62077	31	14	33	6	18
U84-64041	37	35	40	35	31
U84-64045	35	38	39	30	5
U84-65078	32	31	35	20	38

PRELIMINARY TEST IIA, 1987
YIELD RANK

Strain	Britton MI	Mead NE	Adelphia NJ	Hoytville OH	Centerville SD	Arlington WI
Elgin 87 (II)	4	21	7	16	18	30
Hardin (I)	32	39	29	38	38	4
Zane (III)	6	23	14	9	34	6
A86-103017	9	32	11	34	8	15
A86-104021	19	14	6	30	25	21
A86-105011	15	35	27	15	2	34
A86-201030	34	3	40	33	3	3
A86-202022	36	2	26	21	27	23
A86-202026	24	1	21	27	15	18
A86-202027	25	6	13	29	9	9
A86-202031	3	20	23	28	35	8
A86-203004	1	9	3	10	18	2
A86-203034	11	27	1	10	24	24
A86-204013	8	13	8	35	9	31
A86-204022	5	12	9	18	21	1
A86-204030	33	4	4	39	12	19
A86-205035	12	17	5	37	4	15
A85D24	40	40	33	36	39	13
A86D5	38	34	37	40	37	38
A86D6	29	7	20	6	20	39
HS84-6224	34	24	18	7	14	36
HS84-6247	7	10	22	4	29	7
LN84-7513	16	8	39	13	25	13
LN84-8339	27	36	25	25	6	19
LN84-8527	31	11	36	16	7	27
LN84-8588	22	19	31	22	1	33
LN84-9050	39	38	35	19	31	21
LN84-10413	17	24	16	3	33	31
LN84-10573	22	26	17	14	17	29
LN84-11185	2	37	15	2	36	28
LN84-13367	18	21	28	31	28	25
LN84-15574	13	29	38	5	16	5
LN84-19560	14	18	10	1	30	12
LN84-20654	21	32	31	22	11	11
LN84-21154	20	28	24	20	5	17
LN84-21732	10	31	18	8	22	10
U84-62077	28	15	30	32	13	37
U84-64041	30	30	34	22	32	35
U84-64045	37	15	2	10	40	40
U84-65078	26	5	12	25	23	25

PRELIMINARY TEST IIA, 1987
MATURITY (date)

Strain	Mean 9 Tests	Ames IA	Marshalltown IA	Urbana IL	Lafayette IN
Elgin 87 (II)	9-16.2	9-11	--	9-2	9-5
Hardin (I)	-7.4	-6	--	-10	-2
Zane (III)	+5.9	+9	--	+11	+8
A86-103017	+1.3	+1	--	-1	+8
A86-104021	+4.6	+8	--	+8	+8
A86-105011	+0.9	+3	--	+3	+7
A86-201030	-1.3	-2	--	-1	+2
A86-202022	+2.8	+6	--	+3	+6
A86-202026	+3.0	+5	--	+3	+7
A86-202027	+1.2	+4	--	+2	+1
A86-202031	+4.7	+9	--	+7	+7
A86-203004	+4.7	+9	--	+8	+6
A86-203034	+3.4	+4	--	+4	+5
A86-204013	+2.2	+2	--	-1	+7
A86-204022	+3.6	+6	--	+6	+4
A86-204030	+3.8	+7	--	+7	+7
A86-205035	+3.0	+4	--	+6	+6
A85D24	+1.7	+6	--	-1	+2
A86D5	-3.9	-5	--	-6	-3
A86D6	+2.0	+8	--	-5	-3
HS84-6224	+0.3	-2	--	+9	+7
HS84-6247	+3.1	+6	--	+7	+4
LN84-7513	+5.7	+10	--	+7	+7
LN84-8339	+1.6	+2	--	+2	+6
LN84-8527	-1.0	+1	--	-2	0
LN84-8588	-0.6	+1	--	-4	0
LN84-9050	+0.2	0	--	-3	+3
LN84-10413	+2.2	+6	--	+4	+6
LN84-10573	+5.4	+9	--	+7	+7
LN84-11185	+8.7	+12	--	+10	+8
LN84-13367	+0.1	+2	--	+3	+2
LN84-15574	+3.8	+6	--	+5	+4
LN84-19560	+6.8	+10	--	+8	+10
LN84-20654	+1.1	+2	--	+5	+10
LN84-21154	+2.4	+4	--	+5	+7
LN84-21732	+4.8	+6	--	+8	+8
U84-62077	+0.8	+1	--	+2	+6
U84-64041	+4.3	+6	--	+7	+6
U84-64045	+3.2	+4	--	+6	+7
U84-65078	+5.1	+8	--	+10	+7
Date planted	5-12	5-2	5-9	5-1	5-4
Days to mature	127	132	--	124	124

PRELIMINARY TEST IIA, 1987
MATURITY (date)

Strain	Britton MI	Mead NE	Adelphia NJ	Hoytville OH	Centerville SD	Arlington WI
Elgin 87 (II)	9-9	9-19	10-5	9-13	9-17	9-28
Hardin (I)	-5	-3	-12	-10	-8	-11
Zane (III)	+10	+6	-1	+3	+5	+2
A86-103017	+2	+3	+1	-4	+1	+1
A86-104021	+4	+6	+1	+1	+4	+1
A86-105011	+6	+4	-5	-3	0	-1
A86-201030	-1	+2	-9	-2	0	-1
A86-202022	+6	+6	-4	-2	+2	+2
A86-202026	+7	+5	-5	+1	+2	+2
A86-202027	+2	+5	-3	+2	+3	-2
A86-202031	+7	+6	-2	+2	+4	+2
A86-203004	+6	+5	0	0	+6	+2
A86-203034	+7	+5	0	+1	+3	+2
A86-204013	+5	+2	0	+2	+1	+2
A86-204022	+5	+5	0	+2	+3	+1
A86-204030	+6	+5	-5	+2	+5	0
A86-205035	+5	+3	-1	-3	+6	+1
A85D24	+4	+4	-1	-3	+2	+2
A86D5	+1	-2	-12	-4	-2	-2
A86D6	+7	+6	-2	-1	+7	+1
HS84-6224	0	-1	-6	0	-2	-2
HS84-6247	+4	+5	-4	+1	+4	+1
LN84-7513	+11	+6	-1	+5	+4	+2
LN84-8339	+6	+2	-5	-2	+2	+1
LN84-8527	+1	+1	-8	-3	0	+1
LN84-8588	+2	+2	-5	-4	+2	+1
LN84-9050	-1	-2	-7	-7	+1	-2
LN84-10413	+1	+3	-2	-1	+2	+1
LN84-10573	+9	+6	0	+4	+4	+3
LN84-11185	+14	+7	+8	+7	+8	+4
LN84-13367	+1	+3	-4	-2	+1	-5
LN84-15574	+9	+4	-3	+2	+5	+2
LN84-19560	+12	+6	0	+5	+6	+4
LN84-20654	+2	+2	-5	-4	0	-2
LN84-21154	+7	+3	-6	-2	+2	+2
LN84-21732	+9	+4	0	+3	+3	+2
U84-62077	+3	+2	-7	-3	+2	+1
U84-64041	+8	+5	+1	+1	+3	+2
U84-64045	+5	+3	-1	+1	+2	+2
U84-65078	+8	+6	0	+2	+3	+2
Date planted	5-7	5-18	6-8	5-11	5-13	5-12
Days to mature	125	124	119	125	127	139

PRELIMINARY TEST IIA, 1987
LODGING (score)

Strain	Mean 10 Tests	Ames IA	Marshalltown IA	Urbana IL	Lafayette IN
Elgin 87 (II)	2.1	1.4	3.5	1.0	3.0
Hardin (I)	2.8	3.0	2.8	2.5	2.3
Zane (III)	1.8	1.2	3.0	1.0	2.3
A86-103017	1.9	1.2	3.3	1.0	2.8
A86-104021	1.5	1.2	2.6	1.0	2.0
A86-105011	1.8	1.4	2.3	1.0	2.3
A86-201030	2.2	2.2	2.3	2.0	2.8
A86-202022	1.7	1.3	2.2	1.0	2.3
A86-202026	2.2	1.5	2.3	2.0	3.0
A86-202027	2.1	1.4	3.4	2.5	3.5
A86-202031	2.4	2.3	2.6	2.5	3.3
A86-203004	1.7	1.3	2.2	1.0	1.5
A86-203034	2.2	1.8	2.8	2.0	2.3
A86-204013	1.7	1.1	2.0	1.0	2.5
A86-204022	2.1	1.4	2.8	2.0	2.3
A86-204030	1.8	1.4	2.3	2.0	2.3
A86-205035	1.7	1 2	2.1	1.5	2.3
A85D24	1.3	1.1	1.3	1.0	1.0
A86D5	1.7	1.6	2.3	1.0	1.0
A86D6	2.0	2.3	1.8	1.0	1.3
HS84-6224	1.6	1.3	1.7	1.5	2.3
HS84-6247	1.8	1.5	2.0	1.5	2.3
LN84-7513	1.6	1.2	2.4	1.0	2.3
LN84-8339	1.5	1.1	1.8	1.0	1.8
LN84-8527	1.6	1.2	2.5	1.0	1.8
LN84-8588	1.4	1.1	1.5	1.0	1.8
LN84-9050	1.6	1.3	1.8	2.0	2.3
LN84-10413	1.5	1.2	1.5	1.5	1.8
LN84-10573	1.7	1.2	1.8	1.0	2.3
LN84-11185	1.9	1.2	2.4	1.0	2.5
LN84-13367	1.5	1.3	1.8	1.0	2.0
LN84-15574	1.8	1.1	3.4	1.5	2.5
LN84-19560	2.2	1.2	3.4	1.5	2.5
LN84-20654	1.6	1.1	2.2	1.5	2.8
LN84-21154	1.8	1.3	2.2	1.5	2.3
LN84-21732	1.8	1.2	2.0	2.0	2.3
U84-62077	1.7	1.1	1.8	1.5	2.5
U84-64041	1.9	1.3	2.4	1.0	2.5
U84-64045	1.8	1.2	1.6	2.0	1.8
U84-65078	2.4	1.5	2.3	2.0	3.0

PRELIMINARY TEST IIA, 1987
LODGING (score)

Strain	Britton MI	Mead NE	Adelphia NJ	Hoytville OH	Centerville SD	Arlington WI
Elgin 87 (II)	3.0	1.3	2.0	1.3	1.0	3.5
Hardin (I)	5.0	1.8	3.5	1.2	3.0	2.5
Zane (III)	3.0	1.0	1.5	1.3	1.0	3.0
A86-103017	3.0	1.0	2.0	1.2	1.0	2.5
A86-104021	1.5	1.3	1.0	1.3	1.0	2.5
A86-105011	3.0	1.3	1.0	1.3	1.5	3.0
A86-201030	3.5	1.8	1.5	1.3	2.0	2.5
A86-202022	3.0	1.5	1.0	1.1	1.5	2.3
A86-202026	4.0	2.0	1.5	1.2	2.0	2.5
A86-202027	2.0	1.3	1.5	1.4	1.5	2.8
A86-202031	3.5	1.8	1.5	1.2	2.0	2.8
A86-203004	2.0	1.8	1.0	1.3	1.0	3.8
A86-203034	4.0	1.3	2.5	1.3	2.0	2.3
A86-204013	2.0	1.0	1.0	1.3	1.5	3.3
A86-204022	3.0	1.5	1.5	1.5	2.5	2.0
A86-204030	2.0	1.5	1.5	1.1	1.0	2.8
A86-205035	2.5	1.0	1.0	1.2	1.0	2.8
A85D24	2.0	1.0	1.0	1.1	1.0	2.3
A86D5	3.0	1.3	1.5	1.0	1.0	3.3
A86D6	4.0	2.0	1.5	1.3	2.0	2.8
HS84-6224	2.0	1.0	1.0	2.1	1.0	2.5
HS84-6247	2.5	1.0	1.0	1.3	2.0	2.8
LN84-7513	2.0	1.0	1.0	1.2	1.0	2.8
LN84-8339	2.0	1.0	1.0	1.2	1.5	2.3
LN84-8527	2.0	1.0	1.0	1.2	1.0	3.0
LN84-8588	2.0	1.0	1.0	1.2	1.0	2.8
LN84-9050	3.0	1.0	1.0	1.2	1.0	1.8
LN84-10413	2.0	1.0	1.5	1.3	1.5	2.0
LN84-10573	2.5	1.3	1.0	1.5	2.0	2.8
LN84-11185	3.5	2.0	1.0	1.6	1.0	2.8
LN84-13367	2.0	1.0	1.5	1.3	1.0	2.3
LN84-15574	2.0	1.0	1.0	1.3	1.5	2.5
LN84-19560	3.5	1.5	2.0	1.3	1.5	3.8
LN84-20654	2.0	1.0	1.0	1.2	1.0	2.0
LN84-21154	3.0	1.0	1.0	1.2	1.5	3.3
LN84-21732	3.0	1.0	1.0	1.2	2.0	2.3
U84-62077	3.0	1.0	1.0	1.2	1.5	2.3
U84-64041	3.0	1.8	2.0	1.3	1.5	2.5
U84-64045	2.5	1.3	1.5	1.3	1.5	2.8
U84-65078	4.0	2.0	2.0	1.2	2.5	3.3

PRELIMINARY TEST IIA, 1987
PLANT HEIGHT (inches)

Strain	Mean 10 Tests	Ames IA	Marshalltown IA	Urbana IL	Lafayette IN
Elgin 87 (II)	37	40	44	37	40
Hardin (I)	38	38	46	38	39
Zane (III)	41	45	48	41	43
A86-103017	33	36	42	33	34
A86-104021	37	40	44	38	40
A86-105011	37	42	44	36	40
A86-201030	36	38	43	36	38
A86-202022	38	40	46	39	41
A86-202026	38	42	46	37	44
A86-202027	35	35	40	36	38
A86-202031	40	41	48	41	41
A86-203004	41	48	48	42	42
A86-203034	41	42	48	43	43
A86-204013	37	38	48	35	40
A86-204022	40	44	46	44	45
A86-204030	40	48	50	41	43
A86-205035	41	44	52	41	44
A85D24	22	20	28	17	21
A86D5	33	34	40	26	34
A86D6	39	44	52	25	26
HS84-6224	35	32	38	44	44
HS84-6247	40	46	50	39	41
LN84-7513	40	42	48	40	42
LN84-8339	37	38	43	37	38
LN84-8527	35	40	40	37	37
LN84-8588	37	39	44	36	38
LN84-9050	40	40	44	40	42
LN84-10413	40	44	47	41	42
LN84-10573	41	46	47	42	43
LN84-11185	43	48	49	43	46
LN84-13367	36	36	44	37	39
LN84-15574	39	44	48	39	42
LN84-19560	40	43	47	42	41
LN84-20654	40	42	49	41	46
LN84-21154	42	48	49	43	42
LN84-21732	40	41	48	43	42
U84-62077	38	46	43	39	40
U84-64041	41	44	48	44	43
U84-64045	41	42	48	42	43
U84-65078	42	50	50	46	43

PRELIMINARY TEST IIA, 1987
PLANT HEIGHT (inches)

Strain	Britton MI	Mead NE	Adelphia NJ	Hoytville OH	Centerville SD	Arlington WI
Elgin 87 (II)	37	32	29	27	44	38
Hardin (I)	46	33	28	18	52	39
Zane (III)	44	38	32	26	47	43
A86-103017	36	28	26	19	42	37
A86-104021	41	35	29	22	47	38
A86-105011	39	36	26	25	47	39
A86-201030	41	33	28	19	44	40
A86-202022	42	34	28	23	46	40
A86-202026	42	35	31	22	45	39
A86-202027	37	30	28	20	45	39
A86-202031	45	38	36	21	53	40
A86-203004	43	38	34	27	51	41
A86-203034	45	37	35	30	48	42
A86-204013	38	32	29	24	47	41
A86-204022	40	37	34	27	48	31
A86-204030	44	38	34	18	47	40
A86-205035	42	36	34	27	51	41
A85D24	27	20	18	14	24	28
A86D5	35	32	27	16	44	37
A86D6	46	39	37	28	52	43
HS84-6224	32	28	25	30	38	35
HS84-6247	42	36	30	27	48	40
LN84-7513	42	37	30	24	49	41
LN84-8339	42	32	28	23	47	38
LN84-8527	37	31	24	22	44	38
LN84-8588	39	33	26	24	44	39
LN84-9050	42	33	28	27	48	41
LN84-10413	43	35	34	29	47	41
LN84-10573	40	37	33	28	47	43
LN84-11185	45	39	34	30	52	42
LN84-13367	38	35	28	20	45	38
LN84-15574	36	34	28	27	48	40
LN84-19560	42	35	30	28	48	42
LN84-20654	41	35	30	26	48	40
LN84-21154	48	40	31	27	51	42
LN84-21732	41	34	34	28	48	41
U84-62077	39	34	28	23	48	40
U84-64041	41	37	32	26	48	44
U84-64045	41	37	34	28	48	43
U84-65078	44	39	34	25	50	41

PRELIMINARY TEST IIA, 1987
SEED QUALITY (score)

Strain	Mean 9 Tests	Ames IA	Marshalltown IA	Urbana IL	Lafayette IN
Elgin 87 (II)	1.6	3.0	--	1.3	1.5
Hardin (I)	2.4	4.0	--	1.8	2.0
Zane (III)	2.3	4.0	--	1.9	2.0
A86-103017	2.4	3.0	--	1.5	3.5
A86-104021	2.7	4.0	--	2.3	3.0
A86-105011	2.7	3.0	--	2.0	1.5
A86-201030	2.1	2.0	--	1.7	1.5
A86-202022	2.4	3.0	--	1.8	2.0
A86-202026	2.3	3.0	--	1.8	2.0
A86-202027	1.9	3.0	--	1.6	1.5
A86-202031	2.0	3.0	--	1.9	1.5
A86-203004	1.9	3.0	--	1.5	2.0
A86-203034	1.9	3.0	--	1.8	2.0
A86-204013	2.0	3.0	--	1.3	2.0
A86-204022	2.0	3.0	--	1.9	2.0
A86-204030	1.8	3.0	--	1.9	2.0
A86-205035	1.9	2.0	--	1.9	2.0
A85D24	1.5	2.0	--	1.3	1.0
A86D5	2.0	3.0	--	1.7	1.0
A86D6	1.8	3.0	--	1.3	1.0
HS84-6224	1.7	3.0	--	2.0	2.0
HS84-6247	1.9	3.0	--	1.8	2.0
LN84-7513	1.5	3.0	--	1.5	1.0
LN84-8339	2.0	3.0	--	1.5	1.5
LN84-8527	1.8	2.0	--	1.7	1.5
LN84-8588	1.7	2.0	--	1.3	1.5
LN84-9050	2.2	3.0	--	1.8	3.0
LN84-10413	1.6	3.0	--	1.3	1.5
LN84-10573	1.6	2.0	--	1.3	1.5
LN84-11185	2.0	3.0	--	1.3	1.5
LN84-13367	2.2	3.0	--	1.6	2.0
LN84-15574	1.3	2.0	--	1.3	1.0
LN84-19560	1.9	3.0	--	1.9	1.5
LN84-20654	2.3	3.0	--	1.5	1.5
LN84-21154	2.0	3.0	--	1.5	1.5
LN84-21732	1.6	3.0	--	1.7	1.0
U84-62077	2.8	4.0	--	2.1	2.0
U84-64041	1.5	2.0	--	1.5	1.5
U84-64045	1.9	2.0	--	1.7	1.5
U84-65078	2.9	3.0	--	2.1	1.5

PRELIMINARY TEST IIA, 1987
SEED QUALITY (score)

Strain	Britton MI	Mead NE	Adelphia NJ	Hoytville OH	Centerville SD	Arlington WI
Elgin 87 (II)	1.5	1.5	1.0	1.8	2.0	1.0
Hardin (I)	2.5	2.3	2.5	3.4	2.0	1.0
Zane (III)	2.0	2.3	2.0	1.8	3.0	2.0
A86-103017	2.5	1.5	2.5	2.7	3.0	1.0
A86-104021	1.5	2.5	1.5	3.6	4.0	2.0
A86-105011	3.0	2.0	3.0	2.7	4.0	3.0
A86-201030	2.5	2.0	2.5	3.0	2.0	2.0
A86-202022	2.0	2.0	3.0	4.0	3.0	1.0
A86-202026	2.0	2.0	3.0	3.8	2.0	1.0
A86-202027	2.0	2.0	1.0	2.3	3.0	1.0
A86-202031	2.5	2.0	2.5	2.0	2.0	1.0
A86-203004	2.0	2.0	1.5	2.3	2.0	1.0
A86-203034	2.0	2.0	1.0	1.7	3.0	1.0
A86-204013	2.5	2.0	2.5	2.1	2.0	1.0
A86-204022	2.0	2.3	2.0	1.7	2.0	1.0
A86-204030	2.5	2.0	2.5	2.3	2.0	1.0
A86-205035	2.0	2.3	1.5	2.4	2.0	1.0
A85D24	1.0	2.0	1.0	2.5	2.0	1.0
A86D5	1.5	2.0	2.0	3.0	1.0	3.0
A86D6	2.0	2.0	1.0	1.5	3.0	1.0
HS84-6224	1.0	1.5	1.5	1.6	2.0	1.0
HS84-6247	1.0	2.0	2.0	1.7	3.0	1.0
LN84-7513	1.0	1.5	1.0	1.4	2.0	1.0
LN84-8339	2.0	2.0	2.5	2.1	2.0	1.0
LN84-8527	1.5	1.8	2.5	1.9	2.0	1.0
LN84-8588	1.0	2.5	2.5	1.8	2.0	1.0
LN84-9050	2.0	2.0	3.0	2.0	2.0	1.0
LN84-10413	1.5	1.0	1.0	1.7	2.0	1.0
LN84-10573	2.0	1.5	1.0	1.6	2.0	1.0
LN84-11185	2.5	1.5	1.0	1.6	2.0	4.0
LN84-13367	1.5	2.0	4.5	2.0	2.0	1.0
LN84-15574	1.0	1.0	1.0	1.4	2.0	1.0
LN84-19560	1.5	1.8	1.0	2.1	2.0	2.0
LN84-20654	2.5	2.0	3.5	2.1	2.0	2.0
LN84-21154	2.0	2.0	3.0	2.1	2.0	1.0
LN84-21732	1.5	1.3	1.0	1.7	2.0	1.0
U84-62077	3.0	2.5	4.5	2.1	4.0	1.0
U84-64041	1.0	2.0	1.0	1.5	2.0	1.0
U84-64045	2.0	2.0	1.5	2.3	3.0	1.0
U84-65078	2.0	1.8	2.0	1.6	2.0	1.0

PRELIMINARY TEST IIA, 1987
SEED SIZE (g/100)

Strain	Mean 9 Tests	Ames IA	Marshalltown IA	Urbana IL	Lafayette IN
Elgin 87 (II)	15.2	14.4	--	16.0	14.5
Hardin (I)	14.6	14.4	--	14.6	15.5
Zane (III)	18.8	16.6	--	18.7	18.2
A86-103017	16.8	16.2	--	16.0	16.2
A86-104021	18.3	16.6	--	17.5	17.6
A86-105011	16.4	15.1	--	16.9	15.7
A86-201030	14.8	14.4	--	15.1	15.1
A86-202022	15.6	14.8	--	15.3	15.3
A86-202026	17.1	16.4	--	17.1	16.9
A86-202027	17.4	16.8	--	16.7	17.6
A86-202031	15.1	14.2	--	15.7	14.8
A86-203004	17.7	16.2	--	17.8	16.7
A86-203034	18.2	16.6	--	17.5	18.1
A86-204013	19.6	17.5	--	18.5	19.1
A86-204022	18.5	17.4	--	18.1	18.0
A86-204030	17.1	16.3	--	17.0	17.2
A86-205035	16.0	14.3	--	14.6	16.2
A85D24	14.7	15.0	--	16.0	16.2
A86D5	15.6	15.0	--	16.4	17.4
A86D6	17.3	16.8	--	16.9	17.2
HS84-6224	16.5	15.8	--	17.0	17.3
HS84-6247	18.1	16.2	--	17.2	17.3
LN84-7513	16.4	15.2	--	15.4	15.7
LN84-8339	18.5	16.4	--	19.0	18.3
LN84-8527	17.8	16.5	--	18.9	17.5
LN84-8588	15.5	14.6	--	15.4	14.8
LN84-9050	15.6	14.1	--	15.6	16.1
LN84-10413	17.0	15.4	--	16.2	16.2
LN84-10573	16.9	15.0	--	16.1	16.2
LN84-11185	18.5	16.4	--	17.2	16.3
LN84-13367	17.6	15.9	--	17.7	17.2
LN84-15574	13.5	12.1	--	12.8	13.0
LN84-19560	15.6	13.9	--	15.1	15.7
LN84-20654	15.1	13.6	--	15.9	15.7
LN84-21154	16.1	15.0	--	15.1	15.4
LN84-21732	15.9	14.1	--	14.3	15.3
U84-62077	17.1	15.2	--	16.5	17.0
U84-64041	17.8	15.4	--	16.9	16.9
U84-64045	18.1	16.8	--	18.0	17.9
U84-65078	14.3	13.6	--	13.1	14.0

PRELIMINARY TEST IIA, 1987
SEED SIZE (g/100)

Strain	Britton MI	Mead NE	Adelphia NJ	Hoytville OH	Centerville SD	Arlington WI
Elgin 87 (II)	15.9	15.0	16.5	13.7	14.8	16.3
Hardin (I)	13.7	16.7	13.0	13.0	13.7	16.6
Zane (III)	21.2	20.7	20.0	15.5	17.4	21.1
A86-103017	18.3	17.7	17.0	15.2	16.7	17.9
A86-104021	19.4	20.3	19.0	15.9	18.1	19.9
A86-105011	18.4	16.9	15.5	15.7	17.8	16.0
A86-201030	14.7	15.3	14.0	13.2	15.2	15.9
A86-202022	17.3	17.0	15.5	13.6	15.3	16.1
A86-202026	17.6	17.5	17.5	15.0	17.3	18.2
A86-202027	17.9	18.1	17.5	14.9	18.0	18.8
A86-202031	16.0	16.4	16.0	12.7	14.0	16.2
A86-203004	19.0	19.2	19.0	15.0	16.7	19.6
A86-203034	19.8	20.2	18.5	14.8	17.9	20.1
A86-204013	22.4	20.2	20.5	16.3	19.6	22.7
A86-204022	19.6	19.4	18.5	16.7	17.9	20.7
A86-204030	18.6	18.0	18.0	15.1	17.4	17.3
A86-205035	18.4	17.4	16.5	13.3	16.4	17.3
A85D24	14.2	15.8	14.0	11.7	14.9	14.6
A86D5	15.6	17.0	14.0	13.7	15.4	16.3
A86D6	17.9	18.4	18.0	15.0	17.7	17.8
HS84-6224	16.6	16.2	17.5	15.2	16.2	16.4
HS84-6247	19.1	19.5	18.5	16.0	18.6	20.1
LN84-7513	17.4	17.8	17.5	14.6	15.9	18.0
LN84-8339	20.0	19.7	19.0	15.8	19.5	18.7
LN84-8527	18.6	19.0	18.0	14.8	18.0	19.1
LN84-8588	16.1	16.7	16.0	13.1	16.3	16.6
LN84-9050	16.5	17.3	15.5	12.7	16.9	16.1
LN84-10413	18.7	17.2	19.0	15.4	16.8	18.5
LN84-10573	17.9	17.9	18.0	15.5	17.4	18.1
LN84-11185	21.7	19.3	20.0	17.4	17.9	20.4
LN84-13367	18.3	19.5	18.0	14.5	17.8	19.2
LN84-15574	14.5	13.7	14.5	12.7	13.4	14.4
LN84-19560	17.1	16.9	17.0	13.9	14.6	16.1
LN84-20654	15.8	16.1	15.5	12.5	15.7	14.9
LN84-21154	17.2	17.0	17.0	13.6	16.8	17.8
LN84-21732	17.8	16.8	16.5	15.4	15.8	16.9
U84-62077	19.3	19.3	16.5	14.2	18.1	17.4
U84-64041	19.4	19.3	20.0	14.6	18.3	19.7
U84-64045	19.4	18.5	19.5	14.7	18.3	20.0
U84-65078	15.5	14.5	15.0	12.3	14.4	15.9

PRELIMINARY TEST IIA, 1987
PROTEIN (%)

Strain	Mean 5 Tests	Urbana IL	Lafayette IN	Ames IA	Mead NE	Hoytville OH
Elgin 87 (II)	37.8	38.0	42.0	36.8	36.7	35.4
Hardin (I)	39.6	39.9	39.1	40.0	41.4	37.6
Zane (III)	39.3	40.4	39.5	39.1	41.5	36.2
A86-103017	39.5	39.7	40.6	38.8	41.2	37.2
A86-104021	40.0	40.9	41.1	40.2	40.5	37.5
A86-105011	41.0	41.8	41.6	41.0	41.8	39.0
A86-201030	38.3	38.9	39.2	38.4	38.5	36.6
A86-202022	39.3	40.0	40.6	39.1	40.2	36.4
A86-202026	39.4	40.3	40.1	39.6	39.7	37.1
A86-202027	39.6	40.3	40.6	39.7	40.1	37.5
A86-202031	38.1	39.3	39.2	39.3	39.5	33.2
A86-203004	38.5	39.9	39.0	38.4	38.8	36.3
A86-203034	39.9	40.1	40.9	39.4	41.6	37.3
A86-204013	39.8	40.8	40.9	40.1	42.2	35.0
A86-204022	39.4	39.9	40.3	39.4	41.1	36.3
A86-204030	41.6	41.8	41.4	42.4	42.6	39.7
A86-205035	40.0	41.2	40.6	39.8	41.4	36.8
A85D24	40.3	41.4	41.0	39.6	40.6	39.0
A86D5	38.1	38.7	38.0	38.6	38.4	37.0
A86D6	39.6	40.2	41.4	39.1	40.5	36.9
HS84-6224	38.5	39.5	39.1	38.3	39.3	36.4
HS84-6247	38.2	38.8	38.7	38.6	38.9	35.9
LN84-7513	38.0	38.3	40.6	37.8	38.3	34.8
LN84-8339	40.1	40.8	40.3	40.0	41.0	38.2
LN84-8527	38.5	38.9	40.6	37.9	38.9	36.1
LN84-8588	38.0	39.1	39.1	37.3	39.4	35.7
LN84-9050	40.9	41.6	41.2	41.0	41.6	39.1
LN84-10413	40.3	41.0	38.1	41.5	41.0	40.1
LN84-10573	39.6	41.1	40.4	39.0	39.6	38.1
LN84-11185	39.2	40.1	39.3	38.1	39.8	38.7
LN84-13367	38.6	39.2	40.7	38.0	38.8	36.2
LN84-15574	39.9	39.6	43.0	39.2	40.1	37.7
LN84-19560	39.4	39.7	40.8	39.8	38.7	37.8
LN84-20654	40.1	39.9	41.5	40.1	40.9	38.1
LN84-21154	39.1	40.5	37.7	39.7	39.3	38.5
LN84-21732	39.0	39.3	41.2	39.3	39.3	36.0
U84-62077	39.9	40.6	39.6	40.9	41.2	37.1
U84-64041	38.3	40.0	39.9	38.7	39.8	35.4
U84-64045	38.6	39.6	39.6	38.2	39.7	36.0
U84-65078	37.8	37.7	39.5	37.4	39.6	35.0

PRELIMINARY TEST IIA, 1987
OIL (%)

Strain	Mean 5 Tests	Urbana IL	Lafayette IN	Ames IA	Mead NE	Hoytville OH
Elgin 87 (II)	22.5	22.9	22.0	22.3	22.1	23.1
Hardin (I)	22.5	22.4	23.1	21.6	21.1	24.3
Zane (III)	21.8	22.1	22.5	20.8	20.0	23.5
A86-103017	22.0	22.4	22.1	21.3	20.7	23.4
A86-104021	20.9	20.3	21.5	19.6	20.5	22.4
A86-105011	20.9	20.7	20.9	19.9	20.4	22.6
A86-201030	22.2	22.2	22.8	21.9	21.2	23.1
A86-202022	21.3	21.2	21.4	20.2	20.4	23.4
A86-202026	21.5	21.5	21.9	20.6	20.4	23.2
A86-202027	21.4	21.6	21.0	20.3	20.2	23.9
A86-202031	22.2	22.3	22.3	20.9	21.0	24.5
A86-203004	22.4	22.5	22.4	21.5	21.8	24.0
A86-203034	21.2	21.5	21.1	20.5	19.8	22.9
A86-204013	21.2	20.8	20.7	20.5	19.8	24.1
A86-204022	21.8	22.0	22.2	20.9	20.2	23.9
A86-204030	20.0	20.2	20.1	18.5	19.4	21.7
A86-205035	20.9	20.3	20.6	20.4	20.3	23.1
A85D24	21.6	21.2	21.9	21.2	21.0	22.6
A86D5	23.2	23.4	23.8	22.8	22.3	23.9
A86D6	21.1	21.3	21.7	20.3	19.9	22.4
HS84-6224	22.0	22.7	21.6	21.9	21.4	22.4
HS84-6247	22.6	23.4	23.5	21.5	21.2	23.6
LN84-7513	21.8	22.5	21.3	21.4	20.6	23.3
LN84-8339	21.7	21.8	22.0	21.0	20.4	23.2
LN84-8527	22.5	23.2	22.5	21.9	21.5	23.4
LN84-8588	21.5	21.1	22.0	21.7	19.7	23.0
LN84-9050	21.5	22.3	21.8	20.5	20.1	22.7
LN84-10413	20.6	20.5	22.4	19.7	19.0	21.4
LN84-10573	21.5	21.2	22.3	20.9	20.6	22.3
LN84-11185	21.3	21.5	22.0	20.9	20.8	21.5
LN84-13367	22.5	23.3	21.2	22.0	22.0	23.8
LN84-15574	20.7	20.8	21.8	20.2	19.0	21.9
LN84-19560	21.9	22.5	21.7	21.1	21.1	23.1
LN84-20654	21.4	22.5	21.6	20.4	19.9	22.4
LN84-21154	21.8	21.9	21.9	20.8	21.6	22.7
LN84-21732	21.5	21.2	22.2	20.8	20.9	22.5
U84-62077	21.1	21.0	21.4	20.1	20.3	22.8
U84-64041	21.8	22.0	22.3	21.0	20.3	23.4
U84-64045	22.0	22.1	22.5	20.8	20.6	24.1
U84-65078	21.2	22.1	21.9	20.5	19.0	22.7

PRELIMINARY TEST IIB, 1987

Strain	Parentage	Generation Composited
Elgin 87 (II)	Elgin (5) X Williams 82	BC4 F2
Hardin (I)	Corsoy (3) X Cutler 71	F5
Zane (III)	Cumberland X Pella	F5
C1706	Hardin X Century	F5
C1711	L73-4673 X Wells BC(7)-19-1	F5
C1712	A78-121014 X HW79015	F6
C1715	A78-227016 X Sparks	F6
C1716	C1590 X HW79015	F5
C1721	HW79015 X Sparks	F5
C1722	HW79015 X Sparks	F5
E85077	A80-244003 X Century 84	F4
E85097	A80-244003 X U76168	F4
E85098	A80-244003 X U76168	F4
E85100	A80-244003 X U76168	F4
E85110	A80-244003 X U76168	F4
E85166	A80-244003 X Miami	F4
E85168	A80-244003 X Miami	F4
E85171	A80-244003 X Miami	F4
E85239	Woodworth BC(5) X Keller	F4
HM8625	A79-236002 (2) X HW79149	BC2 F3
HM8632	Zane (3) X HW79149	BC2 F3
HM8634	Zane (3) X HW79149	BC2 F3
HM8635	Zane (3) X HW79149	BC2 F3
L83-7375	L73-4673 X L78-4054	F5
L84-5583	L73-4673 X L78-4054	F6
M83-15	A2 X Hodgson 78	F4
M83-895	M74-155 X M72-124	F5
Hoyt (II dt)	Harcor X Elf	F5
C1703	Hobbit X Dawson	F6
HC81-2513	HC74-3386 X Sprite	F5
HC82-3007	Sprite X Hobbit	F5
HC82-3164	L74D-634 X Hobbit	F5
HC82-4039	Sprite X K74-104-76-205	F5
HC82-4965	L74D-634 X Hobbit	F5
HC83-584-1a	Hardin X Gnome	F5
HC83-613-1	A77-314013 X Hobbit	F5
HC83-971-1	Hobbit X L77-1836	F5
HC83-2398	Sprite X Williams 82	F5
HC84-553-1	Hobbit X K74-104-76-205	F5
M82-1079	Hardin X Gnome	F3

PRELIMINARY TEST IIB, 1987

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code		Chlorosis Score Ames	Shattering Score Manhatten	BSR - Ames Plant n %	BSR - Ames Stem n %
Elgin 87 (II)	PTBSYBl	I	3.8	2	90	78.4
Hardin (I)	PGBDYY	I	3.8	1	90	50.7
Zane (III)	PGBDYBl	I	3.5	1	90	53.5
C1706	Heterogen.	I	4.2	2	100	75.9
C1711	PGBSYY	I	3.8	1	100	78.4
C1712	PGBDYBf	I	2.5	1	90	62.6
C1715	WGBDYBf	I	3.5	2	100	69.5
C1716	PGBDYIb	I	2.7	1	100	75.1
C1721	PTBSYBl	I	3.8	2	100	70.0
C1722	WTBSYBl	I	2.7	2	100	74.9
E85077	P+WTTDYBl	I	3.3	2	100	77.7
E85097	WTTDYBl	I	4.5	1	100	74.9
E85098	PTTDYBl	I	3.8	1	90	79.0
E85100	P+WTTDYBl	I	4.3	2	80	53.5
E85110	WTTDYBl	I	4.3	1	100	57.5
E85166	WTB+TDYBl	I	4.0	2	60	29.6
E85168	P+WTBDYBl	I	3.7	1	100	69.8
E85171	Heterogen.	I	4.5	2	90	49.2
E85239	Heterogen.	I	3.0	1	100	55.7
HM8625	PGBSYIb	I	3.5	1	90	53.9
HM8632	PGBDYG+Ib	I	3.5	2	100	59.8
HM8634	PGBDYG	I	4.5	1	100	57.3
HM8635	PGBDYG	I	3.7	1	100	59.0
L83-7375	PGTDYBr	I	4.7	1	-	-
L84-5583	PGTSYBr	I	4.7	2	-	-
M83-15	P+WGBSYBf	I	2.2	2	-	-
M83-895	WGBDYBf	I	2.7	1	-	-
Hoyt (II dt)	PTTSYBl	D	3.8	3	-	-
C1703	PTTDYBl	D	1.8	1	-	-
HC81-2513	WTTSYBl	D	3.0	1	-	-
HC82-3007	WTTSYBl	D	3.7	1	-	-
HC82-3164	WTTDYBl	D	2.7	1	-	-
HC82-4039	WTTDYBl	D	4.0	1	-	-
HC82-4965	WTTDYBl	D	3.3	1	-	-
HC83-584-1a	PTTDYH	D	3.8	1	-	-
HC83-613-1	WTBDYBl	D	3.0	1	-	-
HC83-971-1	WTTSYBl	D	3.5	1	-	-
HC83-2398	WTTSYBl	D	2.8	1	-	-
HC84-553-1	PTTSYBl	D	3.5	1	-	-
M82-1079	PTBDYH	D	3.8	1	-	-

PRELIMINARY TEST IIB, 1987

DISEASE DATA

Strain	BP	PR		PS	PSB	SMV
			Vickery		Lafayette	
	Urbana	Ames	Tolerance	a	n	a
	Score	Race 4	Score	%	%	Score
Elgin 87 (II)	1.0	R	7.0	22	16	5E
Hardin (I)	1.0	S	4.0	68	30	5E
Zane (III)	1.0	S	5.2	38	20	3E
C1706	1.0	S	6.0	77	34	3E
C1711	1.0	S	6.0	73	16	3M
C1712	1.0	S	5.6	41	22	3M
C1715	1.0	S	5.4	49	26	3E
C1716	1.0	S	7.0	54	10	4M
C1721	1.0	H	5.8	24	20	4E
C1722	1.0	H	6.6	15	14	3M
E85077	1.0	S	5.0	40	28	5E
E85097	1.0	H	5.2	26	34	5E
E85098	1.0	H	5.2	14	6	5E
E85100	1.0	H	4.6	16	20	4E
E85110	1.0	S	6.0	32	16	5E
E85166	1.0	R	5.4	25	28	5E
E85168	1.0	R	6.4	16	50	5E
E85171	1.0	R	5.0	38	28	3E
E85239	4.0	R	4.8	24	20	3E
HM8625	3.0	H	5.0	12	22	3E
HM8632	1.5	R	5.0	26	6	5E
HM8634	3.0	R	5.0	21	10	5E
HM8635	3.5	R	5.0	9	8	5E
L83-7375	1.0	H	5.6	34	10	4E
L84-5583	1.0	S	5.0	62	18	3E
M83-15	1.0	S	6.6	27	18	4E
M83-895	1.0	S	6.8	56	12	1
Hoyt (II dt)	1.0	H	7.0	7	8	5E
C1703	1.0	S	5.8	12	2	1
HC81-2513	1.0	S	4.8	6	4	1
HC82-3007	1.0	S	4.8	7	6	1
HC82-3164	1.0	S	5.0	4	0	2M
HC82-4039	1.0	R	5.0	1	0	2M
HC82-4965	1.5	S	4.6	15	6	1
HC83-584-1a	1.0	S	4.8	15	14	3E
HC83-613-1	1.0	S	5.0	5	2	3E
HC83-971-1	1.0	S	5.2	6	6	2M
HC83-2398	1.0	S	6.4	4	2	2M
HC84-553-1	1.0	R	5.0	1	14	1
M82-1079	1.0	S	6.4	12	36	5E

PRELIMINARY TEST IIB, 1987

Regional Summary

Strain	Yield	Rank	Maturity	Lodging	Plant Height	Seed Quality	Seed Size	Composition Protein	Composition Oil
No. of Tests	10	10	9	10	10	9	9	5	5
	bu/a	No.	date	score	in.	score	g/100	%	%
Elgin 87 (II)	52.5	6	9-14.9*	2.0	35	1.9	15.3	37.6	22.3
Hardin (I)	45.5	33	-7.0	2.6	38	2.1	14.7	39.7	22.7
Zane (III)	51.9	8	+7.3	1.7	41	2.2	19.2	39.1	22.0
C1706	49.5	20	+0.2	2.0	40	2.1	14.6	40.0	21.4
C1711	50.1	17	+4.1	2.1	43	1.9	15.4	41.3	20.5
C1712	51.5	12	+4.1	2.3	45	1.8	16.5	38.6	21.6
C1715	49.0	23	+4.3	2.2	40	1.9	15.9	38.0	21.3
C1716	46.4	31	+2.0	1.5	40	2.0	16.0	39.9	21.4
C1721	50.8	14	+4.6	1.9	42	1.7	16.3	38.1	22.0
C1722	50.7	15	+4.7	1.8	43	1.7	16.5	38.4	21.8
E85077	49.9	19	-2.0	1.6	37	2.2	15.2	39.2	22.3
E85097	47.9	25	-1.8	2.1	41	1.9	17.1	38.9	23.0
E85098	45.1	36	-3.8	1.5	37	2.2	17.9	39.6	22.3
E85100	45.3	34	-6.2	1.5	36	2.0	16.4	39.2	22.2
E85110	50.5	16	-2.8	1.5	38	2.1	17.0	39.5	22.6
E85166	45.9	32	-1.7	2.0	45	2.1	16.4	39.5	22.3
E85168	44.9	37	-5.8	1.9	41	1.9	17.0	40.7	22.0
E85171	47.5	29	-2.1	2.0	38	2.2	17.6	39.2	22.4
E85239	44.0	39	-8.8	1.6	34	2.3	17.1	39.4	22.4
HM8625	55.4	3	+5.7	1.6	40	2.0	19.6	39.4	22.5
HM8632	56.1	1	+6.4	1.7	38	2.2	19.2	39.0	22.1
HM8634	53.4	5	+5.2	2.0	39	2.2	19.7	39.0	22.1
HM8635	52.3	7	+5.1	1.6	38	2.2	19.3	39.3	21.9
L83-7375	47.8	27	+4.8	2.1	41	1.8	16.4	40.2	21.7
L84-5583	49.4	21	+4.7	2.1	40	1.8	16.7	39.8	21.5
M83-15	47.1	30	-2.2	1.4	38	2.0	16.6	38.8	22.9
M83-895	44.9	37	-4.2	1.8	35	2.1	13.4	40.1	22.4
Hoyt (II dt)	47.8	27	+2.9	1.3	23	1.9	14.1	40.0	22.0
C1703	51.8	9	+6.4	1.4	31	1.4	15.6	38.5	22.1
HC81-2513	51.1	13	+6.7	1.3	24	1.6	15.4	37.0	23.5
HC82-3007	51.7	11	+8.6	1.2	24	1.7	17.8	37.7	23.1
HC82-3164	50.0	18	+7.9	1.1	24	1.7	15.0	38.8	22.0
HC82-4039	49.1	22	+6.7	1.2	23	1.4	16.1	38.7	22.1
HC82-4965	54.1	4	+6.7	1.2	24	1.4	17.8	39.5	22.1
HC83-584-1a	47.9	25	+3.8	1.3	25	1.7	14.9	38.9	22.2
HC83-613-1	51.8	9	+4.4	1.3	25	1.4	16.7	38.9	22.2
HC83-971-1	48.8	24	+5.2	1.2	24	1.5	14.6	37.8	23.1
HC83-2398	45.3	34	+7.6	1.2	24	1.6	14.2	39.8	21.6
HC84-553-1	55.9	2	+5.9	1.2	27	1.3	15.5	38.7	22.6
M82-1079	43.1	40	+2.1	1.2	25	1.6	14.6	40.6	21.5

*126 days after planting.

PRELIMINARY TEST IIB, 1987
YIELD (bu/a)

Strain	Mean 10 Tests	Ames IA	Marshalltown IA	Urbana IL	Lafayette IN
Elgin 87 (II)	52.5	58.7	61.2	60.1	46.3
Hardin (I)	45.5	57.4	53.9	53.1	38.1
Zane (III)	51.9	55.6	64.3	59.7	46.0
C1706	49.5	62.0	61.1	53.1	42.2
C1711	50.1	55.9	59.4	57.3	42.9
C1712	51.5	59.8	55.0	62.7	54.3
C1715	49.0	49.0	57.1	58.9	42.3
C1716	46.4	55.8	48.6	58.1	41.1
C1721	50.8	57.5	53.8	62.9	48.9
C1722	50.7	54.4	52.7	58.1	47.3
E85077	49.9	64.9	62.0	56.4	37.0
E85097	47.9	57.5	54.0	56.7	44.2
E85098	45.1	56.7	56.1	54.9	42.3
E85100	45.3	55.6	56.5	52.3	38.9
E85110	50.5	58.4	57.0	63.2	47.0
E85166	45.9	55.3	46.2	59.5	36.7
E85168	44.9	54.2	53.1	53.2	41.9
E85171	47.5	61.0	52.1	56.3	46.1
E85239	44.0	53.1	53.2	35.3	38.2
HM8625	55.4	63.3	62.0	62.2	49.7
MH8632	56.1	60.0	72.0	61.7	46.4
HM8634	53.4	59.6	58.7	62.0	45.1
HM8635	52.3	53.2	61.1	53.9	49.6
L83-7375	47.8	48.7	50.1	56.4	49.1
L84-5583	49.4	55.5	50.9	59.9	49.5
M83-15	47.1	57.2	53.9	47.8	42.4
M83-895	44.9	55.9	53.1	48.9	39.2
Hoyt (II dt)	47.8	51.5	60.5	38.9	47.4
C1703	51.8	58.7	51.3	51.0	52.9
HC81-2513	51.1	51.0	64.2	56.3	45.2
HC82-3007	51.7	55.5	65.4	50.7	48.1
HC82-3164	50.0	52.9	57.2	55.1	48.7
HC82-4039	49.1	51.7	58.0	48.0	43.4
HC82-4965	54.1	58.3	65.0	58.7	56.7
HC83-584-1a	47.9	50.7	56.3	50.6	39.7
HC83-613-1	51.8	57.0	57.1	59.0	54.5
HC83-971-1	48.8	48.0	53.2	54.5	45.2
HC83-2398	45.3	46.7	56.2	41.6	39.2
HC84-553-1	55.9	54.0	64.3	59.8	57.1
M82-1079	43.1	47.0	55.4	37.0	23.0
C.V. (%)		6.3	7.1	8.1	10.3
L.S.D. (%)		7.0	8.1	9.1	9.4
Row sp. (in.)		27	27	30	24
Rows/plot		4	4	4	4
Reps		2	2	2	2

PRELIMINARY TEST IIB, 1987
YIELD (bu/a)

Strain	Britton MI	Mead NE	Adelphia NJ	Hoytville OH	Centerville SD	Arlington WI
Elgin 87 (II)	52.9	50.0	42.2	39.3	58.4	55.8
Hardin (I)	48.1	38.2	33.8	21.7	48.3	62.2
Zane (III)	55.8	49.4	42.0	36.2	49.0	60.6
C1706	51.8	39.2	41.3	30.6	52.3	61.5
C1711	43.2	44.0	46.8	35.8	56.9	58.9
C1712	50.6	49.2	46.1	24.3	57.1	56.3
C1715	45.2	47.5	38.9	35.4	50.4	64.8
C1716	51.1	42.5	38.5	26.3	50.3	51.5
C1721	52.6	46.2	44.1	38.6	48.3	55.4
C1722	54.9	42.6	45.0	40.6	52.2	58.9
E85077	47.7	46.7	29.0	33.1	62.4	59.6
E85097	48.7	37.8	39.5	35.0	54.7	51.3
E85098	47.0	35.1	38.4	27.4	46.2	47.0
E85100	48.2	37.4	34.1	28.5	51.1	50.2
E85110	53.3	39.9	36.9	33.1	59.7	56.4
E85166	44.8	41.5	34.2	34.5	50.9	55.3
E85168	45.4	33.9	34.9	34.7	51.0	46.3
E85171	45.8	39.7	37.1	34.4	52.3	50.1
E85239	45.4	32.5	38.3	35.0	57.3	51.6
HM8625	61.0	46.9	48.5	44.9	56.8	58.5
MH8632	61.5	47.1	50.6	41.7	57.5	62.2
HM8634	57.5	44.9	48.5	40.0	53.4	64.3
HM8635	64.6	44.9	46.3	37.8	50.3	60.9
L83-7375	50.4	42.9	43.2	32.6	53.0	51.4
L84-5583	48.8	44.8	46.3	33.1	51.0	53.9
M83-15	45.6	40.2	39.0	33.1	56.8	54.7
M83-895	57.3	33.5	31.5	19.8	53.1	56.7
Hoyt (II dt)	55.5	38.6	40.9	33.1	53.6	57.8
C1703	60.0	49.4	41.0	35.9	52.6	65.2
HC81-2513	52.0	36.1	41.9	37.4	57.0	70.2
HC82-3007	54.9	44.3	42.5	41.4	53.6	60.6
HC82-3164	51.5	47.2	48.1	35.8	48.6	55.3
HC82-4039	56.5	39.5	42.8	41.3	50.8	58.9
HC82-4965	52.8	43.7	45.6	35.3	64.3	60.2
HC83-584-1a	54.6	43.2	43.3	33.9	51.9	55.2
HC83-613-1	57.2	47.1	48.8	26.9	52.4	58.0
HC83-971-1	49.9	47.5	46.4	33.9	52.4	56.7
HC83-2398	47.4	33.0	42.9	41.2	47.3	57.6
HC84-553-1	54.0	49.5	47.1	48.5	58.3	66.4
M82-1079	50.3	39.4	38.1	25.2	51.1	64.0
C.V. (%)	8.4	9.5	15.0	9.0	8.8	6.9
L.S.D. (%)	8.9	6.6	8.2	5.9	N.S.	8.0
Row sp. (in.)	20	30	30	30	30	30
Rows/plot	4	2	4	4	4	4
Reps	2	2	2	2	2	2

PRELIMINARY TEST IIB, 1987
YIELD RANK

Strain	Mean 10 Tests	Ames IA	Marshalltown IA	Urbana IL	Lafayette IN
Elgin 87 (II)	6	8	9	7	17
Hardin (I)	33	14	27	28	37
Zane (III)	8	21	4	10	19
C1706	20	3	10	28	29
C1711	17	18	13	17	25
C1712	12	6	25	3	4
C1715	23	36	17	13	27
C1716	31	20	39	15	31
C1721	14	12	29	2	10
C1722	15	26	34	15	14
E85077	19	1	7	19	38
E85097	25	12	26	18	23
E85098	36	17	23	24	27
E85100	34	21	20	30	35
E85110	16	10	19	1	15
E85166	32	25	40	11	39
E85168	37	27	32	27	30
E85171	29	4	35	21	18
E85239	39	30	30	40	36
HM8625	3	2	7	4	6
MH8632	1	5	1	6	16
HM8634	5	7	14	5	22
HM8635	7	29	10	26	7
L83-7375	27	37	38	19	9
L84-5583	21	23	37	8	8
M83-15	30	15	27	36	26
M83-895	37	18	33	34	33
Hoyt (II dt)	27	33	12	38	13
C1703	9	8	36	31	5
HC81-2513	13	34	6	21	20
HC82-3007	11	23	2	32	12
HC82-3164	18	31	16	23	11
HC82-4039	22	32	15	35	24
HC82-4965	4	11	3	14	2
HC83-584-1a	25	35	21	33	32
HC83-613-1	9	16	17	12	3
HC83-971-1	24	38	30	25	20
HC83-2398	34	40	22	37	33
HC84-553-1	2	28	4	9	1
M82-1079	40	39	24	39	40

PRELIMINARY TEST IIB, 1987
YIELD RANK

Strain	Britton MI	Mead NE	Adelphia NJ	Hoytville OH	Centerville SD	Arlington WI
Elgin 87 (II)	16	1	20	9	4	26
Hardin (I)	30	32	38	39	37	7
Zane (III)	9	3	21	13	35	11
C1706	20	30	23	32	22	9
C1711	40	18	7	15	10	15
C1712	23	5	11	38	8	25
C1715	38	6	28	17	32	4
C1716	22	23	29	36	33	34
C1721	18	13	14	10	37	27
C1722	11	22	13	7	24	15
E85077	31	12	40	26	2	14
E85097	28	33	26	19	13	36
E85098	33	36	30	34	40	39
E85100	29	34	37	33	26	37
E85110	15	26	34	26	3	24
E85166	39	24	36	22	30	28
E85168	36	37	35	21	28	40
E85171	34	27	33	23	22	38
E85239	36	40	31	19	7	33
HM8625	3	11	3	2	11	18
MH8632	2	9	1	3	6	7
HM8634	5	14	3	8	16	5
HM8635	1	14	9	11	34	10
L83-7375	24	21	16	31	18	35
L84-5583	27	16	9	26	28	32
M83-15	35	25	27	26	11	31
M83-895	6	38	39	40	17	22
Hoyt (II dt)	10	31	25	26	14	20
C1703	4	3	24	14	19	3
HC81-2513	19	35	22	12	9	1
HC82-3007	11	17	19	4	14	11
HC82-3164	21	8	5	15	36	28
HC82-4039	8	28	18	5	31	15
HC82-4965	17	19	12	18	1	13
HC83-584-1a	13	20	15	24	25	30
HC83-613-1	7	9	2	35	20	19
HC83-971-1	26	6	8	24	20	22
HC83-2398	32	39	17	6	39	21
HC84-553-1	14	2	6	1	5	2
M82-1079	25	29	32	37	26	6

PRELIMINARY TEST IIB, 1987
MATURITY (date)

Strain	Mean 9 Tests	Ames IA	Marshalltown IA	Urbana IL	Lafayette IN
Elgin 87 (II)	9-14.9	9-12	--	9-2	9-10
Hardin (I)	-7.0	-6	--	-10	-5
Zane (III)	+7.3	+10	--	+11	+3
C1706	+0.2	-2	--	+3	-3
C1711	+4.1	+4	--	+6	+3
C1712	+4.1	+6	--	+6	+4
C1715	+4.3	+6	--	+7	-1
C1716	+2.0	0	--	+6	+2
C1721	+4.6	+2	--	+5	+6
C1722	+4.7	+4	--	+6	+2
E85077	-2.0	-2	--	-3	-7
E85097	-1.8	-2	--	-5	-7
E85098	-3.8	-2	--	-4	-8
E85100	-6.2	-6	--	-9	-8
E85110	-2.8	-2	--	-3	-7
E85166	-1.7	-2	--	-1	-3
E85168	-5.8	-4	--	-9	-8
E85171	-2.1	-2	--	-1	-7
E85239	-8.8	-6	--	-18	-9
HM8625	+5.7	+6	--	+8	+5
MH8632	+6.4	+8	--	+9	+3
HM8634	+5.2	+6	--	+4	+5
HM8635	+5.1	-6	--	+6	+4
L83-7375	+4.8	+5	--	+3	+6
L84-5583	+4.7	+2	--	+4	+8
M83-15	-2.2	-2	--	-9	-4
M83-895	-4.2	-6	--	-11	-4
Hoyt (II dt)	+2.9	+3	--	+3	+1
C1703	+6.4	+7	--	+6	+5
HC81-2513	+6.7	+10	--	+9	+3
HC82-3007	+8.6	+12	--	+11	+7
HC82-3164	+7.9	+12	--	+10	+4
HC82-4039	+6.7	+7	--	+9	+2
HC82-4965	+6.7	+9	--	+8	+4
HC83-584-1a	+3.8	+2	--	+4	+2
HC83-613-1	+4.4	+3	--	+5	+2
HC83-971-1	+5.2	+5	--	+6	+3
HC83-2398	+7.6	+10	--	+7	+4
HC84-553-1	+5.9	+6	--	+6	+2
M82-1079	+2.1	+2	--	-5	+3
Date planted	5-12	5-2	5-9	5-1	5-4
Days to mature	126	133	--	124	129

PRELIMINARY TEST IIB, 1987
MATURITY (date)

Strain	Britton MI	Mead NE	Adelphia NJ	Hoytville OH	Centerville SD	Arlington WI
Elgin 87 (II)	9-8	9-18	9-28	9-10	9-18	9-28
Hardin (I)	-3	-8	-7	-9	-8	-7
Zane (III)	+11	+8	+7	+6	+7	+3
C1706	+4	0	+4	-3	-3	+2
C1711	+4	+6	+10	-1	+3	+2
C1712	+5	+7	+3	+2	+3	+1
C1715	+9	+6	+4	+2	+4	+2
C1716	+3	+4	+2	-1	+1	+1
C1721	+9	+6	+4	+2	+4	+3
C1722	+7	+8	+6	+4	+3	+2
E85077	+2	0	-1	-4	-3	0
E85097	+3	-1	+1	-4	-2	+1
E85098	+1	-3	+4	-5	-3	-14
E85100	-3	-8	-7	-7	-5	-3
E85110	0	-1	-3	-3	-3	-3
E85166	+2	0	-2	-2	-7	0
E85168	-1	-4	-10	-7	-4	-5
E85171	+2	0	-7	-3	-1	0
E85239	-4	-10	-8	-8	-6	-10
HM8625	+8	+8	+5	+5	+4	+2
MH8632	+9	+9	+8	+6	+4	+2
HM8634	+8	+7	+7	+4	+4	+2
HM8635	+6	+7	+6	+5	+4	+2
L83-7375	+10	+7	+6	+1	+3	+2
L84-5583	+9	+7	+6	+1	+3	+2
M83-15	+2	0	-2	-2	-3	0
M83-895	+3	-1	-6	-3	-3	-7
Hoyt (II dt)	+7	+5	+3	0	+2	+2
C1703	+10	+7	+6	+11	+4	+2
HC81-2513	+9	+10	+7	+6	+4	+2
HC82-3007	+10	+13	+8	+9	+4	+3
HC82-3164	+10	+12	+10	+7	+4	+2
HC82-4039	+10	+10	+8	+9	+3	+2
HC82-4965	+10	+9	+7	+7	+4	+2
HC83-584-1a	+6	+6	+6	+3	+3	+2
HC83-613-1	+6	+8	+5	+5	+4	+2
HC83-971-1	+6	+7	+8	+6	+3	+3
HC83-2398	+9	+11	+9	+11	+5	+2
HC84-553-1	+9	+10	+7	+8	+3	+2
M82-1079	+4	+5	+8	0	+2	0
Date planted	5-7	5-18	6-8	5-11	5-13	5-12
Days to mature	124	123	112	122	128	139

PRELIMINARY TEST IIB, 1987
LODGING (score)

Strain	Mean 10 Tests	Ames IA	Marshalltown IA	Urbana IL	Lafayette IN
Elgin 87 (II)	2.0	1.2	3.6	2.0	2.3
Hardin (I)	2.6	3.0	2.6	2.5	1.8
Zane (III)	1.7	1.1	2.6	1.0	2.0
C1706	2.0	1.5	1.9	2.0	2.0
C1711	2.1	1.3	2.0	2.0	2.8
C1712	2.3	1.3	2.0	3.5	2.5
C1715	2.2	1.7	3.8	2.0	2.3
C1716	1.5	1.1	1.8	1.0	1.5
C1721	1.9	1.2	2.3	2.0	2.0
C1722	1.8	1.3	2.4	2.0	1.8
E85077	1.6	1.3	2.6	1.0	1.3
E85097	2.1	1.4	3.0	2.0	2.8
E85098	1.5	1.2	2.4	1.0	1.8
E85100	1.5	1.1	1.8	1.0	1.8
E85110	1.5	1.2	1.8	1.0	2.0
E85166	2.0	1.5	2.7	2.0	1.8
E85168	1.9	2.1	2.8	1.5	2.3
E85171	2.0	1.3	2.3	2.0	2.3
E85239	1.6	1.2	2.1	1.0	1.8
HM8625	1.6	1.2	2.0	1.0	2.3
MH8632	1.7	1.5	2.0	1.0	1.8
HM8634	2.0	1.2	2.0	2.0	2.3
HM8635	1.6	1.1	2.4	1.0	2.3
L83-7375	2.1	1.2	2.1	2.0	2.8
L84-5583	2.1	1.3	1.9	2.0	2.5
M83-15	1.4	1.2	2.0	1.0	1.5
M83-895	1.8	1.2	3.5	1.0	1.5
Hoyt (II dt)	1.3	1.1	1.2	1.0	1.0
C1703	1.4	1.1	1.6	1.0	1.0
HC81-2513	1.3	1.1	1.1	1.0	1.0
HC82-3007	1.2	1.1	1.1	1.0	1.0
HC82-3164	1.1	1.1	1.1	1.0	1.0
HC82-4039	1.2	1.1	1.2	1.0	1.0
HC82-4965	1.2	1.1	1.1	1.0	1.0
HC83-584-1a	1.3	1.1	1.3	1.0	1.0
HC83-613-1	1.3	1.1	1.3	1.0	1.0
HC83-971-1	1.2	1.1	1.2	1.0	1.0
HC83-2398	1.2	1.1	1.1	1.0	1.0
HC84-553-1	1.2	1.1	1.2	1.0	1.0
M82-1079	1.2	1.1	1.2	1.0	1.0

PRELIMINARY TEST IIB, 1987
LODGING (score)

Strain	Britton MI	Mead NE	Adelphia NJ	Hoytville OH	Centerville SD	Arlington WI
Elgin 87 (II)	3.5	1.0	1.0	1.3	1.0	3.3
Hardin (I)	5.0	1.8	2.0	1.2	3.0	3.5
Zane (III)	2.5	1.0	1.0	1.3	1.0	3.8
C1706	3.5	1.0	1.5	1.3	1.5	3.3
C1711	3.5	1.8	1.5	1.2	2.5	2.8
C1712	3.0	2.0	1.5	1.2	3.0	2.8
C1715	3.5	1.3	1.0	1.3	2.0	3.5
C1716	2.0	1.0	1.0	1.1	1.0	3.0
C1721	3.5	1.8	1.0	1.2	1.5	2.5
C1722	2.5	1.8	1.0	1.2	1.5	2.8
E85077	2.0	1.0	1.0	1.3	1.0	3.8
E85097	3.0	1.0	1.5	1.4	1.5	3.3
E85098	2.0	1.0	1.0	1.3	1.0	2.5
E85100	2.0	1.0	1.0	1.2	1.0	3.0
E85110	2.0	1.0	1.0	1.4	1.5	2.3
E85166	3.0	1.3	1.0	1.5	2.5	2.8
E85168	2.5	1.3	1.5	1.3	1.0	3.0
E85171	3.5	1.0	1.0	1.2	2.0	3.3
E85239	2.0	1.0	1.5	1.3	1.0	3.0
HM8625	2.0	1.0	1.0	1.3	1.0	3.0
MH8632	2.5	1.0	1.5	1.3	1.0	3.0
HM8634	3.0	1.3	1.5	1.4	1.5	3.5
HM8635	2.0	1.3	1.0	1.3	1.0	3.0
L83-7375	3.5	1.8	1.0	1.2	2.5	2.5
L84-5583	4.0	2.0	1.0	1.2	2.5	2.5
M83-15	2.0	1.0	1.0	1.2	1.0	2.3
M83-895	3.5	1.0	1.0	1.2	1.0	3.3
Hoyt (II dt)	1.5	1.0	1.0	1.2	1.0	2.8
C1703	2.0	1.0	1.0	1.2	1.0	2.8
HC81-2513	1.0	1.0	1.0	1.2	1.0	3.3
HC82-3007	1.0	1.0	1.0	1.2	1.5	2.0
HC82-3164	1.0	1.0	1.0	1.1	1.0	2.0
HC82-4039	1.0	1.0	1.5	1.2	1.0	2.3
HC82-4965	1.0	1.0	1.0	1.2	1.0	2.3
HC83-584-1a	1.0	1.0	2.0	1.1	1.0	2.3
HC83-613-1	1.5	1.0	1.0	1.1	1.0	2.8
HC83-971-1	1.0	1.0	1.0	1.2	1.0	2.0
HC83-2398	1.0	1.0	1.0	1.1	1.0	2.3
HC84-553-1	1.0	1.0	1.5	1.3	1.0	2.0
M82-1079	1.0	1.0	1.5	1.2	1.0	2.0

PRELIMINARY TEST IIB, 1987
PLANT HEIGHT (inches)

Strain	Mean 10 Tests	Ames IA	Marshalltown IA	Urbana IL	Lafayette IN
Elgin 87 (II)	35	37	44	36	39
Hardin (I)	38	40	48	38	39
Zane (III)	41	44	48	41	43
C1706	40	44	51	40	44
C1711	43	48	52	45	45
C1712	45	48	53	51	49
C1715	40	44	50	41	38
C1716	40	45	48	43	40
C1721	42	41	48	40	45
C1722	43	44	50	44	45
E85077	37	38	47	38	32
E85097	41	44	48	37	45
E85098	37	42	46	36	39
E85100	36	38	44	38	38
E85110	38	40	46	38	41
E85166	45	50	57	43	43
E85168	41	44	51	43	44
E85171	38	40	44	38	39
E85239	34	34	38	33	33
HM8625	40	42	44	41	44
MH8632	38	40	43	39	36
HM8634	39	42	46	43	40
HM8635	38	38	44	39	38
L83-7375	41	44	48	40	42
L84-5583	40	42	48	38	41
M83-15	38	38	44	35	40
M83-895	35	37	43	33	35
Hoyt (II dt)	23	22	28	20	22
C1703	31	30	38	26	29
HC81-2513	24	20	28	19	25
HC82-3007	24	22	28	21	23
HC82-3164	24	22	30	19	23
HC82-4039	23	20	29	20	25
HC82-4965	24	22	29	22	24
HC83-584-1a	25	20	30	21	26
HC83-613-1	25	22	31	23	24
HC83-971-1	24	18	27	21	23
HC83-2398	24	20	26	19	25
HC84-553-1	27	24	32	25	29
M82-1079	25	20	30	20	23

PRELIMINARY TEST IIB, 1987
PLANT HEIGHT (inches)

Strain	Britton MI	Mead NE	Adelphia NJ	Hoytville OH	Centerville SD	Arlington WI
Elgin 87 (II)	37	29	28	24	42	38
Hardin (I)	46	31	30	21	50	40
Zane (III)	45	36	32	29	50	41
C1706	45	31	30	24	49	41
C1711	44	38	35	29	52	42
C1712	47	41	38	22	54	45
C1715	43	34	28	25	52	41
C1716	43	37	30	24	49	42
C1721	43	36	34	30	54	44
C1722	46	40	38	31	54	42
E85077	40	32	25	24	50	41
E85097	48	35	30	30	47	41
E85098	41	30	29	23	45	42
E85100	38	29	24	24	43	39
E85110	37	32	30	25	50	42
E85166	54	42	29	30	55	46
E85168	46	33	30	31	50	42
E85171	39	32	30	29	45	41
E85239	38	28	26	25	44	37
HM8625	42	33	32	28	47	44
MH8632	43	33	32	29	44	42
HM8634	43	32	34	28	43	41
HM8635	44	30	31	25	49	42
L83-7375	44	35	34	27	52	45
L84-5583	42	34	33	28	49	43
M83-15	44	34	28	28	48	42
M83-895	40	28	24	21	48	39
Hoyt (II dt)	25	23	18	15	27	29
C1703	38	28	23	21	39	34
HC81-2513	28	21	20	19	28	29
HC82-3007	27	22	19	19	32	29
HC82-3164	24	22	20	17	30	29
HC82-4039	25	21	20	17	27	27
HC82-4965	27	23	19	21	28	29
HC83-584-1a	27	24	20	23	31	31
HC83-613-1	28	25	21	17	29	28
HC83-971-1	25	22	20	20	30	31
HC83-2398	26	22	20	21	31	30
HC84-553-1	30	25	22	21	34	30
M82-1079	27	26	22	16	32	31

PRELIMINARY TEST IIB, 1987
SEED QUALITY (score)

Strain	Mean 9 Tests	Ames IA	Marshalltown IA	Urbana IL	Lafayette IN
Elgin 87 (II)	1.9	3.0	--	1.3	1.5
Hardin (I)	2.1	4.0	--	1.5	1.5
Zane (III)	2.2	4.0	--	2.0	1.5
C1706	2.1	3.0	--	1.8	2.0
C1711	1.9	3.0	--	1.9	2.0
C1712	1.8	3.0	--	1.9	1.5
C1715	1.9	4.0	--	1.7	1.0
C1716	2.0	3.0	--	2.1	2.0
C1721	1.7	2.0	--	1.8	1.5
C1722	1.7	3.0	--	1.9	1.5
E85077	2.2	3.0	--	1.8	2.0
E85097	1.9	2.0	--	1.3	1.5
E85098	2.2	3.0	--	2.0	2.5
E85100	2.0	2.0	--	1.5	2.0
E85110	2.1	2.0	--	1.8	2.0
E85166	2.1	3.0	--	1.7	2.0
E85168	1.9	2.0	--	1.3	1.5
E85171	2.2	3.0	--	1.7	2.0
E85239	2.3	3.0	--	2.3	2.0
HM8625	2.0	3.0	--	1.8	3.0
MH8632	2.2	4.0	--	1.8	3.0
HM8634	2.2	4.0	--	2.3	2.5
HM8635	2.2	4.0	--	2.1	3.0
L83-7375	1.8	4.0	--	1.3	2.0
L84-5583	1.8	3.0	--	1.7	2.0
M83-15	2.0	2.0	--	1.7	2.0
M83-895	2.1	2.0	--	1.3	1.5
Hoyt (II dt)	1.9	3.0	--	1.3	1.5
C1703	1.4	2.0	--	1.1	1.5
HC81-2513	1.6	3.0	--	1.3	1.0
HC82-3007	1.7	3.0	--	1.1	1.5
HC82-3164	1.7	3.0	--	1.1	1.0
HC82-4039	1.4	3.0	--	1.1	1.0
HC82-4965	1.4	3.0	--	1.1	1.0
HC83-584-1a	1.7	3.0	--	1.1	1.0
HC83-613-1	1.4	2.0	--	1.3	1.0
HC83-971-1	1.5	3.0	--	1.3	1.0
HC83-2398	1.6	3.0	--	1.3	1.0
HC84-553-1	1.3	2.0	--	1.1	1.0
M82-1079	1.6	3.0	--	1.1	1.5

PRELIMINARY TEST IIB, 1987
SEED QUALITY (score)

Strain	Britton MI	Mead NE	Adelphia NJ	Hoytville OH	Centerville SD	Arlington WI
Elgin 87 (II)	1.5	1.3	2.5	2.0	3.0	1.0
Hardin (I)	1.5	2.5	2.5	2.6	2.0	1.0
Zane (III)	2.0	2.0	1.5	1.4	3.0	2.0
C1706	1.5	2.0	1.5	1.8	3.0	2.0
C1711	1.0	2.5	1.5	1.6	2.0	2.0
C1712	1.0	2.0	2.0	2.1	2.0	1.0
C1715	2.0	1.8	2.0	1.7	2.0	1.0
C1716	1.0	2.0	2.5	1.8	2.0	2.0
C1721	2.0	2.0	1.5	1.5	2.0	1.0
C1722	1.5	2.0	1.0	1.6	2.0	1.0
E85077	2.0	1.8	3.5	1.8	2.0	2.0
E85097	1.5	1.3	3.5	1.7	3.0	1.0
E85098	1.5	2.0	3.0	1.5	3.0	1.0
E85100	1.5	1.8	3.0	2.0	3.0	1.0
E85110	1.5	1.8	3.0	2.0	3.0	2.0
E85166	2.0	1.8	2.5	2.2	2.0	2.0
E85168	3.0	1.3	2.5	2.8	2.0	1.0
E85171	1.5	2.0	3.5	2.2	2.0	2.0
E85239	2.5	1.5	3.0	3.0	2.0	1.0
HM8625	1.5	2.0	1.0	1.8	3.0	1.0
MH8632	2.0	2.5	1.5	1.8	2.0	1.0
HM8634	1.5	2.5	1.5	1.5	3.0	1.0
HM8635	2.0	2.0	1.0	2.0	3.0	1.0
L83-7375	1.5	2.0	1.0	1.7	2.0	1.0
L84-5583	1.5	2.0	1.0	1.8	2.0	1.0
M83-15	2.0	2.0	2.5	3.1	2.0	1.0
M83-895	2.0	2.0	2.5	2.3	4.0	1.0
Hoyt (II dt)	1.5	1.3	2.5	1.6	3.0	1.0
C1703	1.0	1.0	1.0	1.4	3.0	1.0
HC81-2513	1.0	1.0	1.0	1.7	3.0	1.0
HC82-3007	1.0	1.0	1.0	1.6	3.0	2.0
HC82-3164	1.5	1.3	1.0	1.4	3.0	2.0
HC82-4039	1.0	1.0	1.0	1.5	2.0	1.0
HC82-4965	1.0	1.0	1.0	1.6	2.0	1.0
HC83-584-1a	1.0	1.5	1.0	1.8	3.0	2.0
HC83-613-1	1.0	1.3	1.0	1.7	2.0	1.0
HC83-971-1	1.0	1.0	1.0	1.4	3.0	1.0
HC83-2398	1.0	1.3	1.0	1.4	3.0	1.0
HC84-553-1	1.0	1.0	1.0	1.4	2.0	1.0
M82-1079	1.0	1.5	1.5	1.7	2.0	1.0

PRELIMINARY TEST IIB, 1987
SEED SIZE (g/100)

Strain	Mean 9 Tests	Ames IA	Marshalltown IA	Urbana IL	Lafayette IN
Elgin 87 (II)	15.3	14.8	--	14.9	15.4
Hardin (I)	14.7	14.8	--	15.4	13.7
Zane (III)	19.2	17.4	--	18.2	18.6
C1706	14.6	14.4	--	14.4	14.0
C1711	15.4	13.4	--	16.0	15.7
C1712	16.5	15.7	--	16.5	15.4
C1715	15.9	14.2	--	15.3	15.4
C1716	16.0	14.6	--	16.5	15.1
C1721	16.3	15.6	--	16.8	15.9
C1722	16.5	14.8	--	15.9	15.3
E85077	15.2	14.2	--	14.8	14.9
E85097	17.1	16.7	--	17.5	17.0
E85098	17.9	17.0	--	18.5	16.9
E85100	16.4	15.6	--	16.4	17.0
E85110	17.0	16.6	--	18.7	17.4
E85166	16.4	16.3	--	16.2	16.0
E85168	17.0	16.6	--	16.9	16.7
E85171	17.6	18.0	--	18.5	17.6
E85239	17.1	16.2	--	15.8	17.1
HM8625	19.6	17.4	--	19.0	19.1
MH8632	19.2	17.6	--	18.3	19.5
HM8634	19.7	19.2	--	19.9	19.2
HM8635	19.3	17.9	--	18.5	18.8
L83-7375	16.4	14.9	--	16.3	16.6
L84-5583	16.7	15.0	--	16.7	16.4
M83-15	16.6	15.2	--	16.9	16.4
M83-895	13.4	11.8	--	13.5	13.3
Hoyt (II dt)	14.1	13.0	--	14.6	14.8
C1703	15.6	14.5	--	15.5	17.4
HC81-2513	15.4	15.8	--	14.6	15.8
HC82-3007	17.8	18.6	--	16.4	18.7
HC82-3164	15.0	14.6	--	14.0	15.7
HC82-4039	16.1	15.5	--	15.1	16.4
HC82-4965	17.8	18.4	--	18.6	18.8
HC83-584-1a	14.9	14.4	--	13.5	15.7
HC83-613-1	16.7	15.6	--	16.4	17.5
HC83-971-1	14.6	15.4	--	14.0	16.1
HC83-2398	14.2	14.4	--	13.2	14.7
HC84-553-1	15.5	14.2	--	14.9	16.4
M82-1079	14.6	15.7	--	13.7	15.3

PRELIMINARY TEST IIB, 1987
SEED SIZE (g/100)

Strain	Britton MI	Mead NE	Adelphia NJ	Hoytville OH	Centerville SD	Arlington WI
Elgin 87 (II)	16.1	15.8	15.5	13.1	15.3	16.6
Hardin (I)	14.6	15.4	13.0	13.5	15.2	17.1
Zane (III)	20.6	21.7	19.5	15.3	18.5	22.6
C1706	15.7	15.7	14.0	12.3	14.7	15.8
C1711	15.5	16.3	15.5	13.1	16.4	16.7
C1712	17.7	17.8	17.0	14.4	15.8	17.9
C1715	17.8	17.6	16.0	13.2	15.7	18.3
C1716	17.0	17.6	17.0	13.0	16.2	17.1
C1721	18.0	17.5	16.0	13.8	15.6	17.2
C1722	18.1	18.1	17.0	14.2	15.9	19.2
E85077	15.8	16.6	14.5	12.2	16.7	17.1
E85097	18.2	17.7	17.5	14.0	17.6	17.9
E85098	18.7	19.4	18.0	14.6	20.0	18.4
E85100	17.6	17.2	16.0	12.9	18.0	16.6
E85110	16.9	17.8	16.5	13.2	18.5	17.0
E85166	17.1	17.2	16.5	13.1	17.0	18.2
E85168	17.6	18.5	16.5	14.2	17.4	18.9
E85171	17.2	20.0	16.5	14.8	17.2	18.7
E85239	17.9	17.0	17.5	14.6	18.6	19.1
HM8625	20.8	22.5	19.5	18.1	18.7	21.1
MH8632	21.5	21.3	20.0	16.4	17.8	20.6
HM8634	20.4	21.7	19.0	17.2	19.2	21.2
HM8635	21,1	20.6	20.0	16.9	17.8	21.9
L83-7375	17.3	17.0	17.5	13.6	16.4	17.7
L84-5583	18.0	16.7	17.5	14.4	17.5	18.0
M83-15	17.0	17.8	15.0	14.5	18.6	17.7
M83-895	14.4	13.7	13.5	10.7	14.8	14.7
Hoyt (II dt)	14.4	14.6	14.0	12.6	14.5	14.1
C1703	16.9	15.1	15.5	14.1	15.0	16.7
HC81-2513	15.0	17.5	15.0	13.2	15.2	16.2
HC82-3007	18.4	19.8	17.5	14.8	16.8	19.5
HC82-3164	16.5	15.7	14.5	13.1	15.0	15.5
HC82-4039	17.2	16.2	16.5	14.7	16.4	17.2
HC82-4965	17.4	18.1	18.0	15.4	17.8	17.4
HC83-584-1a	16.0	15.5	15.5	13.0	15.0	15.1
HC83-613-1	18.6	17.9	17.0	12.6	16.8	17.7
HC83-971-1	15.2	15.2	14.5	11.9	15.1	14.4
HC83-2398	14.6	15.1	14.0	12.7	14.7	14.7
HC84-553-1	16.2	15.6	15.5	14.1	16.2	16.7
M82-1079	15.2	14.8	14.5	11.9	14.7	15.9

PRELIMINARY TEST IIB, 1987
PROTEIN (%)

Strain	Mean 5 Tests	Urbana IL	Lafayette IN	Ames IA	Mead NE	Hoytville OH
Elgin 87 (II)	37.6	37.9	38.9	37.4	37.1	36.6
Hardin (I)	39.7	39.3	39.5	40.2	41.4	38.3
Zane (III)	39.1	40.1	40.1	38.4	40.1	36.7
C1706	40.0	40.2	39.5	40.2	42.3	38.0
C1711	41.3	41.0	43.0	41.3	41.7	39.4
C1712	38.6	39.3	39.8	37.8	39.1	36.9
C1715	38.0	39.0	38.3	39.4	38.2	35.3
C1716	39.9	40.7	41.5	39.6	40.6	37.3
C1721	38.1	39.0	39.5	38.3	37.3	36.4
C1722	38.4	39.7	39.5	37.9	39.3	35.7
E85077	39.2	39.5	40.2	38.9	40.5	36.7
E85097	38.9	38.2	40.9	39.1	38.3	37.9
E85098	39.6	39.7	40.3	39.2	40.6	38.2
E85100	39.2	39.1	41.2	38.5	40.1	37.2
E85110	39.5	39.7	40.5	39.1	39.3	38.7
E85166	39.5	39.6	40.9	39.2	40.8	36.8
E85168	40.7	40.5	42.7	39.9	41.1	39.3
E85171	39.2	40.1	39.4	37.5	41.3	37.9
E85239	39.4	40.1	38.7	38.9	39.9	39.3
HM8625	39.4	39.9	40.8	38.9	40.0	37.4
MH8632	39.0	40.3	39.2	39.3	40.4	35.7
HM8634	39.0	39.8	42.1	38.4	39.8	36.9
HM8635	39.3	41.2	39.6	38.6	39.9	37.3
L83-7375	40.2	39.8	42.7	42.5	40.8	35.1
L84-5583	39.8	40.4	42.1	40.7	40.5	35.4
M83-15	38.8	38.7	39.4	38.6	41.0	36.2
M83-895	40.1	40.1	40.7	40.7	41.1	37.9
Hoyt (II dt)	40.0	41.0	41.2	39.7	40.3	37.6
C1703	38.5	36.3	42.3	37.7	39.5	36.9
HC81-2513	37.0	37.2	37.9	36.8	36.4	36.8
HC82-3007	37.7	37.3	39.3	37.8	36.9	37.2
HC82-3164	38.8	39.2	40.4	38.6	38.8	36.8
HC82-4039	38.7	38.5	39.7	38.0	37.8	39.4
HC82-4965	39.5	39.8	40.3	39.0	40.2	38.2
HC83-584-1a	38.9	38.5	40.8	39.7	39.2	36.3
HC83-613-1	38.9	39.1	41.6	38.5	38.6	36.7
HC83-971-1	37.8	38.6	40.3	37.4	37.0	35.9
HC83-2398	39.8	40.3	41.1	40.1	39.0	38.5
HC84-553-1	38.7	39.6	40.4	39.2	37.5	39.8
M82-1079	40.6	41.3	42.0	41.2	40.4	38.2

PRELIMINARY TEST IIB, 1987
OIL (%)

Strain	Mean 5 Tests	Urbana IL	Lafayette IN	Ames IA	Mead NE	Hoytville OH
Elgin 87 (II)	22.3	22.6	22.4	22.0	22.1	22.6
Hardin (I)	22.7	22.9	22.8	22.7	21.8	23.5
Zane (III)	22.0	22.4	22.1	21.3	20.9	23.3
C1706	21.4	21.1	22.0	20.8	19.7	23.4
C1711	20.5	20.8	20.9	19.4	19.5	22.0
C1712	21.6	22.9	21.2	21.6	20.2	22.1
C1715	21.3	21.6	22.2	19.5	20.6	22.4
C1716	21.4	22.1	20.8	20.9	20.6	22.5
C1721	22.0	23.2	21.9	21.2	21.5	22.4
C1722	21.8	22.1	22.1	21.5	20.2	23.0
E85077	22.3	22.5	22.6	21.4	21.4	23.6
E85097	23.0	24.4	22.7	22.9	22.3	22.8
E85098	22.3	22.7	22.6	22.1	21.3	22.6
E85100	22.2	22.1	22.3	22.4	21.2	23.1
E85110	22.6	23.2	22.0	22.5	22.6	22.7
E85166	22.3	23.0	22.1	21.9	21.7	22.9
E85168	22.0	22.5	20.9	21.6	21.7	23.5
E85171	22.4	23.1	23.1	22.4	20.7	22.9
E85239	22.4	23.1	23.1	22.6	21.8	21.4
HM8625	22.5	23.4	22.1	22.4	21.6	23.2
MH8632	22.1	22.4	22.9	21.4	20.7	23.2
HM8634	22.1	23.5	21.6	21.7	20.6	23.0
HM8635	21.9	22.0	22.2	21.1	21.1	23.1
L83-7375	21.7	22.7	21.3	20.3	20.0	24.2
L84-5583	21.5	22.5	20.9	20.4	20.5	23.3
M83-15	22.9	24.2	22.7	22.7	21.3	23.8
M83-895	22.4	22.3	22.3	21.9	21.9	23.7
Hoyt (II dt)	22.0	21.9	21.9	21.5	21.3	23.4
C1703	22.1	24.1	20.7	22.2	21.0	23.3
HC81-2513	23.5	23.8	23.7	23.6	23.1	23.3
HC82-3007	23.1	23.8	23.2	22.5	22.6	23.6
HC82-3164	22.0	21.9	22.0	21.7	21.4	23.1
HC82-4039	22.1	22.3	22.1	22.3	21.6	22.0
HC82-4965	22.1	22.3	22.1	22.3	21.0	22.7
HC83-584-1a	22.2	22.4	21.8	21.6	21.5	23.6
HC83-613-1	22.2	22.9	22.3	21.9	21.3	22.8
HC83-971-1	23.1	23.1	23.2	22.4	22.8	23.8
HC83-2398	21.6	21.6	21.8	21.3	20.8	22.3
HC84-553-1	22.6	22.8	22.7	22.6	22.5	22.6
M82-1079	21.5	21.1	21.6	21.3	20.7	22.6

UNIFORM TEST III, 1987

Strain	Parentage	Previous* Testing	Generation Composited
Century 84 (II)	Century (5) X Williams 82	2	BC4 F3
Chamberlain	A76-304020 X Land O'Lakes Max	3	F4
Dunfield	Selection from PI 36846	-	-
Harper 87 (III)	Harper (6) X Williams 82	2	BC5 F2
Hobbit 87 (III dt)	Hobbit (6) X Williams 82	1	BC5 F3
A84-284033	HW79015 X A80-247007	UTII	F4
A85-293030	Midwest Oilseeds 3010 X A80-344003	PTIIB	F5
A85-298051	Midwest Oilseeds 3010 X A80-245022	PTIIB	F5
A85-392026	A80-344003 X Midwest Oilseeds 2050	PTIIIA	F5
A85-393001	Midwest Oilseeds 3010 X A80-245022	PTIIIA	F5
A85-394009	A79-331022 X A79-334010	PTIIIA	F5
C1695	Hobbit X Amsoy 71 dt	PTIIIB	F6
HC82-3452	L74D-634 X Hobbit	PTIIIB	F5
HC82-5044	HW75-5605 X Hobbit	PTIIIB	F5
HC82-5934	Hobbit X A76-304020	PTIVB	F5
HC82-6195	Sprite X L76-0022	PTIVB	F5
HC83-2408	Sprite X Williams 82	PTIIIB	F5
HC83-2546	Hobbit X Williams 82	PTIIIB	F5
HC83-3834	HC74-3400 X Williams 82	PTIIIB	F5
HC83-4507	L74D-634 X Hobbit	PTIIIB	F5
HC83-4532	L74D-634 X Hobbit	PTIIIB	F5
HC83-4589	L74D-634 X Hobbit	PTIVB	F5
HM8469 (IV)	Asgrow A3127 (4) X Williams 82	1	BC3 F2
HM8471	Asgrow A3127 (4) X Williams 82	1	BC3 F2
L83-3819	L78-8694 X L78L-449	PTIVB	F6
L83-7573	L73-4673 X L78-4094	PTIIIB	F5
LN83-1709	Hobbit X L27	PTIIIA	F4
Md83-2048	BSR 301 X Essex	PTIVB	F6
U80-64032	L69U-37-15-5 X Nebsoy	UTIII	F4
U80-68130	Williams X L69U-40-19-1	UTIII	F5

* Number of years in test or name of 1986 test.

UNIFORM TEST III, 1987

DESCRIPTIVE DATA

	Descriptive Code		Chlorosis Score Ames	Chlorosis Score Lamberton	Emerg. Score Ames	Shattering Score Eldorado	Shattering Score Manhattan	Shattering Score Landisville
Century 84 (II)	PTBDYBl	I	2.5	3.0	5	3.3	1	2.0
Chamberlain	PTBSYBl	I	2.2	4.0	1	2.3	3	1.0
Dunfield	WGTSYBf	I	3.3	4.0	1	2.0	2	1.0
Harper 87 (III)	PTBSYBl	I	3.5	4.0	5	2.0	2	0.0
Hobbit 87 (III dt)	WTTSYBl	D	2.8	4.0	1	1.0	1	0.0
A84-284033	WGBDYBf	I	2.8	4.0	3	2.0	2	1.0
A85-293030	WTBSYBr	I	3.0	4.0	1	2.7	3	0.0
A85-298051	WTBDYBr	I	3.2	4.0	1	3.7	3	1.0
A85-392026	WGBDYBf	I	2.3	4.0	1	1.0	1	0.0
A85-393001	WG+TBDYBr	I	4.3	5.0	5	1.0	2	1.0
A85-394009	PTTDYBl	I	3.8	4.0	5	3.0	3	1.0
C1695	PTTSYBr	D	3.0	4.0	2	2.0	1	0.0
HC82-3452	WTTSYBl	D	2.8	4.0	1	1.0	2	0.0
HC82-5044	WTTDYBl	D	3.2	3.0	1	1.0	1	0.0
HC82-5934	PTTSYBl	D	3.3	5.0	1	1.0	1	0.0
HC82-6195	WTTSYBl	D	3.5	5.0	1	1.0	1	0.0
HC83-2408	WTTSYBl	D	3.5	4.0	1	1.3	3	0.0
HC83-2546	WTTSYBl	D	3.0	4.0	1	1.0	2	0.0
HC83-3834	WTTSYBl	D	3.3	4.0	1	1.0	1	0.0
HC83-4507	WTTSYBl	D	3.2	4.0	1	1.0	1	0.0
HC83-4532	WTTSYBl	D	2.7	4.0	1	1.3	1	0.0
HC83-4589	WTTSYBl	D	3.2	4.0	1	1.0	1	0.0
HM8469 (IV)	PTTDYBl	I	3.0	4.0	1	1.0	1	0.0
HM8471	PTTDYBl	I	4.2	3.0	3	1.0	1	0.0
L83-3819	PGTDYIb	D	3.5	5.0	4	1.3	1	0.0
L83-7573	PGTDYY	I	4.3	4.0	1	1.7	2	0.0
LN83-1709	WGBSYBf	I	3.2	4.0	1	1.0	1	0.0
Md83-2048	PTTDYBl	I	3.0	5.0	1	1.0	1	0.0
U80-64032	WGBSYBf	I	3.8	5.0	1	2.7	2	0.0
U80-68130	WTBDYG	I	3.5	4.0	5	1.3	2	0.0

UNIFORM TEST III, 1987

DISEASE DATA

Strain	Mottl. Score Eldor.	BP Urbana Score	BSR Plant n %	BSR Stem n %	BTS Ames a Score	PR Ames Race 4 React.	PR Vickery Toler. Score	PS Lafayette a %	PSB Lafayette n %	SMV Lafayette a Score
Century 84 (II)	2.0	1.0	100	87.1	3	R	4.6	29	14	3M
Chamberlain	3.0	1.0	90	24.3	4	S	4.2	22	16	5E
Dunfield	2.0	2.0	100	81.3	3	S	5.4	45	24	2M
Harper 87 (III)	2.0	1.0	90	56.1	3	R	3.4	16	16	5E
Hobbit 87 (III)	1.0	1.0	50	50.0	3	R	3.8	3	2	3E
A84-284033	1.0	1.0	100	57.2	3	S	7.6	41	20	3E
A85-293030	3.5	1.0	20	2.0	3	S	5.4	32	4	5E
A85-298051	4.0	1.0	70	30.8	3	S	5.0	26	12	5E
A85-392026	2.5	1.0	90	72.9	4	S	4.8	61	4	5E
A85-393001	3.5	1.0	90	43.3	3	S	4.6	15	44	5E
A85-394009	3.0	1.0	40	15.5	5	S	4.8	15	18	5E
C1695	3.5	2.2	50	41.6	3	S	6.2	20	4	3E
HC82-3452	1.5	1.0	50	43.0	3	S	5.2	6	14	2E
HC82-5044	1.0	1.0	70	61.0	3	S	4.4	4	6	1
HC82-5934	2.0	1.0	50	31.6	3	S	5.4	5	8	2E
HC82-6195	1.5	1.0	80	55.5	3	S	6.0	10	8	1
HC83-2408	1.5	1.0	90	77.8	3	R	4.6	3	8	2E
HC83-2546	1.5	1.0	80	58.7	3	S	4.8	1	0	1
HC83-3834	1.0	1.0	80	78.3	3	S	5.6	0	4	3
HC83-4507	1.5	1.0	80	66.8	3	S	6.2	3	2	1
HC83-4532	1.5	1.0	100	91.2	3	S	5.8	2	16	1
HC83-4589	1.5	1.0	90	75.1	3	S	6.0	4	6	1
HM8469 (IV)	2.5	1.0	100	63.5	3	H	3.4	41	10	4E
HM8471	2.5	1.0	60	32.1	3	R	3.4	43	4	3M
L83-3819	1.5	1.0	70	36.6	3	S	5.4	16	4	4E
L83-7573	3.5	1.0	70	30.1	3	-	6.4	48	16	4E
LN83-1709	2.5	1.7	90	41.4	3	R	3.8	48	20	5M
Md83-2048	3.0	1.0	30	15.9	4	-	6.2	41	22	5E
U80-64032	2.5	1.0	90	60.8	3	H	4.8	50	10	4E
U80-68130	3.5	1.0	90	47.4	3	S	4.8	63	38	5E

UNIFORM TEST III, 1987

Regional Summary

No. of Tests / Strain	Yield 22 bu/a	Rank 22 No.	Maturity 19 date	Lodging 22 score	Plant Height 22 in.	Seed Quality 18 score	Seed Size 19 g/100	Composition Protein 5 %	Composition Oil 5 %
Century 84 (II)	41.2	23	-8.1	1.2	32	2.2	16.3	41.8	20.9
Chamberlain	46.5	12	+3.5	1.8	38	2.0	16.1	39.1	21.0
Dunfield	32.9	30	-5.5	2.8	36	2.6	14.8	38.6	21.9
Harper 87 (III)	47.6	9	9-14.5*	1.3	34	2.0	17.9	39.7	21.3
Hobbit 87 (III dt)	45.3	15	+1.3	1.2	22	1.6	14.0	37.7	22.7
A84-284033	45.6	14	-1.1	1.9	41	2.7	17.1	38.5	22.6
A85-293030	46.9	10	-1.6	1.5	34	2.1	15.1	39.4	21.6
A85-298051	43.0	19	-1.5	1.7	34	2.1	13.6	40.0	21.2
A85-392026	50.9	1	+3.6	1.4	35	2.0	14.5	39.0	21.6
A85-393001	49.5	5	+5.3	2.0	40	2.1	13.8	38.6	21.6
A85-394009	46.7	11	-1.1	1.8	36	1.8	15.5	40.4	21.0
C1695	40.6	26	+5.3	1.1	23	2.1	14.1	38.6	21.8
HC82-3452	41.6	22	-0.7	1.1	20	1.7	16.7	39.3	22.5
HC82-5044	36.5	29	+0.4	1.1	19	1.6	13.0	38.2	22.3
HC82-5934	41.9	21	+2.3	1.1	21	1.6	14.7	38.4	21.7
HC82-6195	40.7	25	+1.5	1.1	22	1.7	14.7	38.8	22.6
HC83-2408	39.9	28	+1.0	1.1	20	1.8	16.0	40.7	21.5
HC83-2546	40.1	27	+0.4	1.1	20	1.6	13.8	38.7	22.5
HC83-3834	42.8	20	+1.1	1.1	21	1.8	15.8	40.0	22.3
HC83-4507	41.2	23	-0.3	1.1	20	1.8	14.8	37.8	22.7
HC83-4532	44.2	16	+0.1	1.1	21	1.8	15.8	38.0	22.7
HC83-4589	43.5	18	+3.3	1.1	22	1.7	15.1	39.7	21.9
HM8469 (IV)	50.6	2	+7.3	1.4	37	1.6	12.9	40.3	20.9
HM8471	50.1	3	0.0	1.2	34	1.5	13.5	39.9	21.6
L83-3819	46.2	13	+4.9	1.5	31	1.7	15.4	39.9	20.3
L83-7573	47.9	8	+0.7	1.7	35	1.8	13.9	39.2	20.3
LN83-1709	48.0	7	+3.3	1.3	35	2.2	14.4	38.2	22.3
Md83-2048	49.9	4	+4.9	1.4	37	1.7	13.3	38.8	22.0
U80-64032	44.2	16	-3.9	1.6	33	2.7	15.8	38.9	21.5
U80-68130	48.8	6	+3.9	1.6	36	2.4	16.0	38.0	21.6

*125 days after planting.

UNIFORM TEST III, 1987

1986-1987 2-YEAR MEAN

	Yield	Rank	Maturity	Lodging	Plant Height	Seed Quality	Seed Size	Composition Protein	Composition Oil
No. of Tests	41	41	38	43	43	37	36	10	10
Strain	bu/a	No.	date	score	in.	score	g/100	%	%
Century 84 (II)	44.8	8	-8.5	1.4	32	2.3	16.6	41.8	21.0
Chamberlain	49.0	5	+2.6	2.0	38	2.1	16.8	39.4	21.1
Harper 87 (III)	50.2	4	9-17.2*	1.4	34	2.0	18.1	38.8	21.4
Hobbit 87	48.2	6	-0.3	1.2	22	1.8	14.8	38.0	22.4
HM8469 (IV)	52.2	2	+5.8	1.4	36	1.7	13.7	40.6	20.9
HM8471	52.4	1	-0.2	1.4	34	1.6	14.0	40.2	21.6
U80-64032	48.0	7	-3.8	1.7	34	2.8	16.0	39.0	21.4
U80-68130	50.6	3	+3.1	1.7	36	2.4	16.5	38.3	21.4

*126 days after planting.

1985-1987 3-YEAR MEAN

No. of Tests	62	62	58	64	64	57	57	15	15
Century 84 (II)	44.7	4	-7.2	1.3	32	2.2	17.0	42.6	20.8
Chamberlain	49.1	2	+3.0	1.9	38	2.1	17.2	40.5	20.9
Harper 87 (III)	49.6	1	9-19.5*	1.4	33	2.0	18.4	40.4	21.5
U80-64032	47.0	3	-2.8	1.6	32	2.8	16.5	39.5	21.2

*127 days after planting.

UNIFORM TEST III, 1987
YIELD (bu/a)

Strain	Mean 22 Tests	Cedar IA	Stuart IA	Eldo-rado IL	Urbana IL	Bluff-ton IN	Laf-ayette IN	Vin-cinnes IN
Century 84 (II)	41.2	50.7	51.3	38.2	58.9	58.2	41.8	40.8
Chamberlain	46.5	52.4	55.1	45.0	60.3	65.4	52.6	55.3
Dunfield	32.9	43.7	36.6	31.5	39.2	44.0	31.7	38.0
Harper 87 (III)	47.6	57.2	54.8	49.5	54.7	60.6	46.1	62.6
Hobbit 87 (III dt)	45.3	51.9	52.2	41.9	60.1	59.8	55.8	55.4
A84-284033	45.6	50.0	56.4	35.8	70.7	58.1	49.2	74.9
A85-293030	46.9	58.6	58.9	47.3	65.1	53.5	49.7	62.2
A85-298051	43.0	56.9	59.5	31.4	61.2	63.2	44.4	55.6
A85-392026	50.9	59.1	59.5	56.8	62.5	49.1	54.0	81.5
A85-393001	49.5	58.5	58.6	49.8	66.1	64.8	44.8	69.2
A85-394009	46.7	56.6	52.9	45.6	61.4	64.4	53.3	50.2
C1695	40.6	50.6	55.6	31.0	53.2	58.6	42.1	55.2
HC82-3452	41.6	52.0	55.7	35.4	56.5	58.9	56.5	39.2
HC82-5044	36.5	40.4	49.7	32.9	51.3	56.5	51.1	38.6
HC82-5934	41.9	49.1	51.1	33.9	55.4	47.9	50.2	57.2
HC82-6195	40.7	50.8	50.6	37.0	51.8	56.9	54.5	49.5
HC83-2408	39.9	50.8	51.9	36.0	51.4	59.8	46.1	42.5
HC83-2546	40.1	47.9	50.9	34.3	55.1	52.9	46.9	43.8
HC83-3834	42.8	49.8	51.5	40.8	54.4	53.0	51.8	58.5
HC83-4507	41.2	53.0	53.4	29.6	61.0	51.7	53.6	46.7
HC83-4532	44.2	54.8	57.6	39.7	59.8	57.0	54.6	57.7
HC83-4589	43.5	49.7	52.9	44.5	55.6	49.2	54.4	58.6
HM8469 (IV)	50.6	58.6	51.4	48.4	62.8	67.5	47.0	82.3
HM8471	50.1	61.8	54.7	47.9	66.2	72.7	50.3	72.5
L83-3819	46.2	51.6	49.6	40.3	60.9	56.0	54.9	69.1
L83-7573	47.9	54.2	57.7	47.8	61.0	70.0	50.3	68.7
LN83-1709	48.0	56.9	54.9	48.9	57.6	72.3	46.0	63.3
Md83-2048	49.9	60.0	56.5	42.5	69.9	59.0	63.9	82.0
U80-64032	44.2	58.1	57.1	47.4	60.0	50.5	53.5	32.1
U80-68130	48.8	59.4	55.2	46.3	65.0	66.6	46.6	81.9
C.V. (%)		5.5	5.8	13.9	5.8	14.4	8.1	19.5
L.S.D. (5%)		4.2	5.5	9.4	5.5	17.4	6.7	18.7
Row sp. (in.)		27	27	30	30	15	24	15
Rows/plot		4	4	4	4	5	4	5
Reps		4	4	3	3	2	3	2

UNIFORM TEST III, 1987
YIELD (bu/a)

Strain	Man-hattan KS	Pow-hattan KS	Topeka KS	Lex-ington KY	Queens-town MD	Columbia MO	Mead NE
Century 84 (II)	35.8	24.8	43.6	29.2	25.9	17.6	43.2
Chamberlain	44.2	33.6	49.0	25.8	31.7	29.9	50.5
Dunfield	33.6	19.4	35.5	24.6	22.9	21.0	34.9
Harper 87 (III)	44.9	35.8	53.3	30.3	31.3	30.4	52.5
Hobbit 87 (III dt)	46.8	38.7	23.6	26.5	31.1	18.5	60.9
A84-284033	53.2	20.0	56.1	30.8	36.7	29.4	51.0
A85-293030	45.2	32.6	47.4	29.5	35.8	25.1	54.4
A85-298051	35.2	18.7	39.7	27.0	26.6	15.9	53.2
A85-392026	51.0	34.2	57.8	31.3	39.7	33.5	55.9
A85-393001	54.2	37.1	59.4	27.2	37.7	24.4	56.3
A85-394009	43.9	30.3	41.9	27.2	36.8	27.0	52.2
C1695	43.9	35.8	25.5	22.6	31.1	17.1	46.1
HC82-3452	34.2	29.0	17.7	28.6	30.6	5.3	58.2
HC82-5044	25.2	22.6	11.9	23.7	33.2	0.9	50.2
HC82-5934	36.5	28.1	21.0	28.2	32.6	14.1	50.2
HC82-6195	33.9	37.1	20.3	26.3	36.3	14.3	48.6
HC83-2408	16.1	30.0	10.3	28.7	36.2	3.1	58.1
HC83-2546	27.4	25.8	39.7	24.0	32.7	6.9	50.9
HC83-3834	41.3	35.2	15.5	29.7	34.3	9.4	57.2
HC83-4507	41.0	32.9	22.6	26.8	32.5	11.1	51.3
HC83-4532	39.4	29.4	21.9	32.6	27.6	14.3	61.4
HC83-4589	40.3	34.2	29.4	26.9	32.3	20.1	59.5
HM8469 (IV)	53.6	41.3	58.4	28.3	34.5	33.4	55.8
HM8471	54.9	37.4	58.7	27.4	31.5	29.3	56.8
L83-3819	47.8	37.4	48.7	27.0	29.7	32.9	47.4
L83-7573	52.3	33.2	52.6	28.7	31.6	33.9	49.9
LN83-1709	52.9	26.1	55.2	31.9	34.4	30.7	52.5
Md83-2048	55.2	38.7	51.6	27.7	35.9	33.5	57.0
U80-64032	43.2	25.5	48.4	28.9	31.5	30.4	53.4
U80-68130	51.6	31.9	56.5	25.9	36.9	26.9	50.3
C.V. (%)	10.6	15.5	20.8	6.3	14.4	19.3	6.7
L.S.D. (5%)	7.5	8.0	13.4	2.8	8.0	6.7	5.7
Row sp. (in.)	30	30	30	30	30	30	30
Rows/plot	4	4	4	4	4	4	4
Reps	3	3	3	3	3	3	3

UNIFORM TEST III, 1987
YIELD (bu/a)

Strain	Adel-phia IA	Hoyt-ville OH	Ripley OH	South Charleston OH	Wooster IN	Harrow IN	Landis-ville PA	Elk Point SD
Century 84 (II)	41.4	39.1	31.3	54.7	37.2	58.4	34.1	49.6
Chamberlain	49.8	43.8	37.3	66.5	30.0	58.7	44.3	41.1
Dunfield	35.7	30.7	30.1	45.4	25.3	43.8	31.6	25.0
Harper 87 (III)	46.3	47.2	37.1	67.4	30.8	56.7	45.4	51.8
Hobbit 87 (III dt)	48.4	45.6	42.1	62.9	35.4	51.2	36.9	50.5
A84-284033	46.8	7.4	39.6	38.9	40.5	70.3	42.8	45.2
A85-293030	48.5	36.8	36.5	65.3	40.8	62.0	31.4	46.2
A85-298051	48.9	36.5	30.0	51.7	37.8	63.2	37.4	51.7
A85-392026	51.8	37.9	40.5	71.6	40.3	58.7	54.2	38.4
A85-393001	46.3	40.8	39.6	64.8	42.7	66.4	41.4	39.0
A85-394009	54.7	41.0	38.9	63.8	35.8	67.4	43.6	37.6
C1695	43.6	34.0	31.4	46.7	27.0	54.6	46.3	41.9
HC82-3452	47.6	41.6	47.0	56.7	25.7	60.7	42.2	35.6
HC82-5044	45.8	28.4	31.9	51.8	27.8	53.2	35.7	41.0
HC82-5934	48.7	44.7	41.6	57.5	38.7	57.8	35.2	41.9
HC82-6195	44.5	42.6	36.7	51.6	33.2	54.6	27.5	36.4
HC83-2408	46.6	43.8	43.0	63.4	24.5	58.9	38.2	39.2
HC83-2546	44.7	40.4	35.6	52.2	28.8	57.7	46.7	37.7
HC83-3834	41.5	38.6	46.6	56.8	27.8	57.1	39.4	50.6
HC83-4507	44.1	39.9	39.7	47.9	31.8	52.4	41.6	42.0
HC83-4532	50.5	38.5	44.1	49.5	36.4	58.8	38.4	47.8
HC83-4589	42.4	40.1	41.6	53.5	35.5	53.8	40.1	42.1
HM8469 (IV)	50.6	46.5	41.5	64.7	44.9	55.9	53.6	31.5
HM8471	48.4	46.1	39.4	62.7	40.5	55.3	45.4	42.0
L83-3819	50.9	34.9	34.6	60.1	35.5	56.9	47.8	41.6
L83-7573	49.6	33.3	39.4	54.4	38.6	58.1	50.1	37.8
LN83-1709	45.9	42.3	36.3	64.3	36.1	60.1	39.4	47.9
Md83-2048	52.7	31.3	37.5	56.5	43.6	63.3	42.1	38.0
U80-64032	45.7	32.4	37.9	53.4	35.2	61.9	32.1	51.7
U80-68130	44.9	37.9	41.6	69.5	36.5	60.7	39.8	42.3
C.V. (%)	11.2	7.8	9.8	10.0	10.7	7.4	17.1	15.8
L.S.D. (5%)	3.5	4.9	6.2	9.4	6.1	7.0	11.4	10.4
Row sp. (in.)	30	30	28	30	30	24	24	30
Rows/plot	4	4	4	4	4	4	4	4
Reps	3	3	3	3	3	3	3	3

UNIFORM TEST III, 1987
YIELD RANK

Strain	Mean 22 Tests	Cedar IA	Stuart IA	Eldo-rado IL	Urbana IL	Bluff-ton IN	Laf-ayette IN	Vin-cinnes IN
Century 84 (II)	23	22	24	19	18	16	29	26
Chamberlain	12	16	13	12	14	6	12	19
Dunfield	30	29	30	27	30	30	30	29
Harper 87 (III)	9	9	15	3	24	10	23	11
Hobbit 87 (III dt)	15	18	20	15	15	11	3	18
A84-284033	14	24	9	22	1	17	14	5
A85-293030	10	5	3	9	5	22	18	12
A85-298051	19	10	1	28	10	9	27	17
A85-392026	1	4	1	1	8	28	8	4
A85-393001	5	7	4	2	4	7	26	7
A85-394009	11	12	18	11	9	8	11	21
C1695	26	23	11	29	26	15	28	20
HC82-3452	22	17	10	23	20	14	2	27
HC82-5044	29	30	28	26	29	20	19	28
HC82-5934	21	27	25	25	22	29	17	16
HC82-6195	25	20	27	20	27	19	6	22
HC83-2408	28	20	21	21	28	11	23	25
HC83-2546	27	28	26	24	23	24	21	24
HC83-3834	20	25	22	16	25	23	13	14
HC83-4507	23	15	17	30	11	26	9	23
HC83-4532	16	13	6	18	17	18	5	15
HC83-4589	18	26	18	13	21	27	7	13
HM8469 (IV)	2	5	23	5	7	4	20	1
HM8471	3	1	16	6	3	1	15	6
L83-3819	13	19	29	17	13	21	4	8
L83-7573	8	14	5	7	11	3	15	9
LN83-1709	7	10	14	4	19	2	25	10
Md83-2048	4	2	8	14	2	13	1	2
U80-64032	16	8	7	8	16	25	10	30
U80-68130	6	3	12	10	6	5	22	3

UNIFORM TEST III, 1987
YIELD RANK

Strain	Man-hattan KS	Pow-hattan KS	Topeka KS	Lex-ington KY	Queens-town MD	Columbia MO	Mead NE
Century 84 (II)	23	26	15	8	29	19	29
Chamberlain	14	13	11	26	18	9	21
Dunfield	27	29	19	27	30	16	30
Harper 87 (III)	13	8	10	5	22	7	16
Hobbit 87 (III dt)	11	2	22	23	23	18	2
A84-284033	5	28	6	4	5	10	19
A85-293030	12	16	14	7	9	14	12
A85-298051	24	30	17	20	28	21	14
A85-392026	9	11	4	3	1	2	10
A85-393001	3	6	1	17	2	15	9
A85-394009	15	18	16	18	4	12	17
C1695	15	8	21	30	23	20	28
HC82-3452	25	21	27	12	25	28	4
HC82-5044	29	27	29	29	13	30	23
HC82-5934	22	22	25	14	15	24	23
HC82-6195	26	6	26	14	6	22	26
HC83-2408	30	19	30	10	7	29	5
HC83-2546	28	24	17	28	14	27	20
HC83-3834	18	10	28	6	12	26	6
HC83-4507	19	15	23	22	16	25	18
HC83-4532	21	20	24	1	27	22	1
HC83-4589	20	11	20	21	17	17	3
HM8469 (IV)	4	1	3	13	10	4	11
HM8471	2	4	2	16	20	11	8
L83-3819	10	4	12	19	26	5	27
L83-7573	7	14	8	10	19	1	25
LN83-1709	6	23	7	2	11	6	15
Md83-2048	1	2	9	15	8	2	7
U80-64032	17	25	13	9	20	7	13
U80-68130	8	17	5	25	3	13	22

UNIFORM TEST III, 1987
YIELD RANK

Strain	Adel-phia IA	Hoyt-ville OH	Ripley OH	South Charleston OH	Wooster IN	Harrow IN	Landis-ville PA	Elk Point SD
Century 84 (II)	29	16	28	18	11	15	26	5
Chamberlain	7	6	19	4	23	13	9	6
Dunfield	30	28	29	29	29	30	28	28
Harper 87 (III)	17	1	20	3	22	21	8	1
Hobbit 87 (III dt)	12	4	5	11	18	29	23	4
A84-284033	15	30	12	30	5	1	11	9
A85-293030	11	21	22	5	4	6	29	8
A85-298051	9	22	30	24	10	5	22	2
A85-392026	3	19	10	1	7	13	1	20
A85-393001	17	12	12	6	3	3	15	19
A85-394009	1	11	16	9	15	2	10	24
C1695	26	24	27	28	27	24	6	13
HC82-3452	14	10	1	17	28	8	12	26
HC82-5044	20	29	26	23	25	27	24	17
HC82-5934	10	5	6	14	8	17	25	13
HC82-6195	24	8	21	25	20	24	30	25
HC83-2408	16	6	4	10	30	11	21	18
HC83-2546	23	13	24	22	24	18	5	23
HC83-3834	28	17	2	15	25	19	19	3
HC83-4507	25	15	11	27	21	28	14	12
HC83-4532	6	18	3	26	12	12	20	7
HC83-4589	27	14	6	20	16	26	16	11
HM8469 (IV)	5	2	9	7	1	22	2	27
HM8471	12	3	14	12	5	23	7	12
L83-3819	4	23	25	13	16	20	4	15
L83-7573	8	25	14	19	9	16	3	22
LN83-1709	19	9	23	8	14	10	18	6
Md83-2048	2	27	18	16	2	4	13	21
U80-64032	21	26	17	21	19	7	27	2
U80-68130	22	19	6	2	13	8	17	10

UNIFORM TEST III, 1987
MATURITY (date)

Strain	Mean 19 Tests	Cedar IA	Stuart IA	Eldo-rado IL	Urbana IL	Bluff-ton IN	Laf-ayette IN	Vin-cinnes IN
Century 84 (II)	-8.1	--	-10	-6	-8	-6	-12	-9
Chamberlain	+3.5	--	+1	+1	+3	+8	+2	+3
Dunfield	-5.5	--	-8	-6	-6	+1	-4	-7
Harper 87 (III)	9-14.5	--	9-21	9-2	9-9	9-10	9-15	8-31
Hobbit 87 (III dt)	+1.3	--	+1	+1	+2	+6	-1	-4
A84-284033	-1.1	--	-4	-1	-1	-2	+3	+5
A85-293030	-1.6	--	-2	-3	0	+2	+4	-5
A85-298051	-1.5	--	-2	-3	+1	0	+5	-3
A85-392026	+3.6	--	+4	+1	+7	+8	+6	+5
A85-393001	+5.3	--	+5	+4	+7	+8	+8	+9
A85-394009	-1.1	--	-1	-1	0	0	+2	-3
C1695	+5.3	--	+3	+6	+3	+13	+6	-1
HC82-3452	-0.7	--	-2	+1	+2	+4	0	-4
HC82-5044	+0.4	--	+1	+1	+2	+3	-1	-1
HC82-5934	+2.3	--	+1	+3	+3	+8	+1	-3
HC82-6195	+1.5	--	-2	+4	-1	+5	+2	-4
HC83-2408	+1.0	--	+2	+3	0	+4	-1	-4
HC83-2546	+0.4	--	0	+3	0	+5	-1	-3
HC83-3834	+1.1	--	+1	+3	+2	+6	+2	-2
HC83-4507	-0.3	--	0	0	+2	+3	-2	-4
HC83-4532	+0.1	--	-1	+1	+2	+7	-1	-3
HC83-4589	+3.3	--	+4	+3	+5	+9	+1	-2
HM8469 (IV)	+7.3	--	+5	+8	+8	+11	+3	+8
HM8471	0.0	--	0	+1	+2	+4	0	-2
L83-3819	+4.9	--	+5	+4	+7	+10	+7	+1
L83-7573	+0.7	--	+2	0	+2	+3	+1	+3
LN83-1709	+3.3	--	+2	+3	+3	+10	+4	+5
Md83-2048	+4.9	--	+6	+2	+8	+8	+6	+4
U80-64032	-3.9	--	-6	-2	-4	-6	0	-4
U80-68130	+3.9	--	+4	+3	+4	+8	+7	+3
Date of planting	5-13	5-6	5-8	5-14	5-1	5-13	5-4	5-8
Days to mature	125	--	136	106	131	120	134	115

UNIFORM TEST III, 1987
MATURITY (date)

Strain	Man-hattan KS	Pow-hattan KS	Topeka KS	Lex-ington KY	Queens-town MD	Columbia MO	Mead NE
Century 84 (II)	-10	--	--	-5	-11	-3	-9
Chamberlain	0	--	--	+6	+6	+2	0
Dunfield	-8	--	--	-5	-15	-2	-3
Harper 87 (III)	9-20	--	--	8-24	9-18	8-28	9-27
Hobbit 87 (III dt)	+2	--	--	0	+1	+2	+3
A84-284033	-1	--	--	0	-3	-2	-1
A85-293030	-1	--	--	0	-2	-2	-2
A85-298051	-2	--	--	0	-5	-2	-2
A85-392026	+1	--	--	+4	+6	+5	+2
A85-393001	+6	--	--	+6	+10	0	+5
A85-394009	-3	--	--	0	0	-2	-1
C1695	+7	--	--	+7	+10	+4	+5
HC82-3452	0	--	--	-5	-2	+3	+1
HC82-5044	+1	--	--	0	-2	+2	+3
HC82-5934	+1	--	--	+4	+6	+4	+3
HC82-6195	+4	--	--	0	+10	+5	0
HC83-2408	+2	--	--	0	+2	+4	+3
HC83-2546	+3	--	--	0	-1	+2	+1
HC83-3834	+4	--	--	0	-1	+4	+3
HC83-4507	+3	--	--	0	0	0	+2
HC83-4532	+1	--	--	0	-1	+2	+2
HC83-4589	+5	--	--	+3	+1	+3	+6
HM8469 (IV)	+5	--	--	+12	+12	+11	+4
HM8471	0	--	--	+1	-1	0	-1
L83-3819	+1	--	--	+7	+2	+2	+3
L83-7573	0	--	--	0	-2	+1	0
LN83-1709	+2	--	--	+4	+2	0	+2
Md83-2048	+6	--	--	+6	+9	+6	+3
U80-64032	-1	--	--	-5	-6	-3	-1
U80-68130	+5	--	--	+3	+9	+2	+1
Date of planting	5-20	5-13	5-12	5-11	6-1	4-29	5-18
Days to mature	123	--	--	109	108	123	132

UNIFORM TEST III, 1987
MATURITY (date)

Strain	Adel-phia IA	Hoyt-ville OH	Ripley OH	South Charleston OH	Wooster OH	Harrow ON	Landis-ville PA	Elk Point SD
Century 84 (II)	-6	-12	-1	-2	-13	-10	-7	-13
Chamberlain	+11	+1	+5	+2	+2	+5	+7	+2
Dunfield	-4	-9	-3	-2	-8	-7	-7	-2
Harper 87 (III)	10-5	9-21	8-19	9-10	9-22	10-6	9-21	9-30
Hobbit 87 (III dt)	+3	+2	+1	+5	-6	+2	+4	+1
A84-284033	-2	-1	0	-1	-9	0	0	-1
A85-293030	-2	-5	-2	0	-11	0	0	0
A85-298051	+2	-9	-1	0	-10	0	+2	0
A85-392026	+5	0	+3	+4	0	-1	+7	+1
A85-393001	+4	0	+4	+7	+1	+7	+7	+2
A85-394009	+1	-6	0	-1	-8	+1	0	+1
C1695	+5	+1	+6	+11	+2	+4	+7	+1
HC82-3452	0	-2	0	0	-7	-2	0	0
HC82-5044	+2	-2	+2	0	-7	0	+4	0
HC82-5934	+1	+2	+2	+8	-3	-1	+2	+2
HC82-6195	-3	+3	-1	+6	-3	+1	0	+2
HC83-2408	+1	+5	+1	+1	-7	+2	0	+1
HC83-2546	+1	+2	0	+1	-6	0	0	+1
HC83-3834	+1	0	+1	+1	-6	+1	0	0
HC83-4507	-1	-1	0	0	-7	0	0	0
HC83-4532	+2	-2	-1	0	-7	0	0	0
HC83-4589	+6	+2	+2	+7	-1	+3	+4	+2
HM8469 (IV)	+6	+5	+8	+9	+5	+7	+7	+5
HM8471	+2	0	0	0	-6	-1	0	+1
L83-3819	+10	+1	+6	+10	+3	+9	+4	+1
L83-7573	+6	-3	0	0	-5	+3	0	+2
LN83-1709	+5	-3	+5	+1	-2	+8	+11	0
Md83-2048	+6	+2	+5	+5	+1	+4	+4	+3
U80-64032	+1	-9	0	-3	-16	-1	-7	-1
U80-68130	+5	+1	+3	+3	+2	+5	+4	+2
Date of planting	6-11	5-11	4-28	--	5-1	5-25	5-18	5-14
Days to mature	115	133	115	--	144	117	126	139

UNIFORM TEST III, 1987
LODGING (score)

Strain	Mean 22 Tests	Cedar IA	Stuart IA	Eldo-rado IL	Urbana IL	Bluff-ton IN	Laf-ayette IN	Vin-cinnes IN
Century 84 (II)	1.2	1.1	1.5	1.2	1.0	1.0	2.0	1.5
Chamberlain	1.8	1.6	1.8	1.8	2.0	1.5	2.0	2.5
Dunfield	2.8	2.7	2.9	2.8	4.0	2.3	3.2	4.2
Harper 87 (III)	1.3	1.3	1.5	1.3	1.3	1.3	1.5	1.5
Hobbit 87 (III dt)	1.2	1.1	1.2	1.2	1.0	1.0	1.2	1.0
A84-284033	1.9	1.8	2.6	1.8	2.7	1.5	1.8	2.2
A85-293030	1.5	1.3	1.9	1.2	2.7	1.3	2.0	2.0
A85-298051	1.7	1.8	2.7	1.2	2.7	1.5	2.3	2.0
A85-392026	1.4	1.4	1.6	1.2	1.7	1.0	1.8	1.3
A85-393001	2.0	2.2	2.3	2.3	2.7	2.0	3.0	3.0
A85-394009	1.8	1.7	2.0	1.7	2.0	1.5	2.2	1.8
C1695	1.1	1.0	1.1	1.0	1.0	1.0	1.0	1.0
HC82-3452	1.1	1.1	1.2	1.1	1.0	1.0	1.2	1.0
HC82-5044	1.1	1.1	1.1	1.1	1.0	1.0	1.0	1.0
HC82-5934	1.1	1.1	1.2	1.1	1.0	1.0	1.0	1.0
HC82-6195	1.1	1.1	1.2	1.1	1.0	1.0	1.2	1.0
HC83-2408	1.1	1.1	1.2	1.1	1.0	1.0	1.0	1.0
HC83-2546	1.1	1.1	1.2	1.1	1.0	1.0	1.0	1.0
HC83-3834	1.1	1.1	1.2	1.2	1.0	1.0	1.0	1.0
HC83-4507	1.1	1.1	1.2	1.1	1.0	1.0	1.0	1.0
HC83-4532	1.1	1.1	1.2	1.1	1.0	1.0	1.0	1.0
HC83-4589	1.1	1.1	1.2	1.1	1.0	1.0	1.2	1.0
HM8469 (IV)	1.4	1.4	1.6	1.2	1.0	1.3	1.5	2.0
HM8471	1.2	1.3	1.5	1.2	1.3	1.0	1.7	1.5
L83-3819	1.5	1.5	1.5	1.4	1.0	1.8	1.7	1.0
L83-7573	1.7	1.8	1.8	2.0	1.3	1.5	2.3	3.0
LN83-1709	1.3	1.2	1.3	1.2	1.0	1.0	1.5	1.3
Md83-2048	1.4	1.3	1.6	1.3	1.7	1.0	1.8	1.7
U80-64032	1.6	1.8	1.8	1.6	1.7	1.3	2.2	2.0
U80-68130	1.6	1.8	2.3	1.5	2.0	1.3	2.0	1.8

UNIFORM TEST III, 1987
LODGING (score)

Strain	Man-hattan KS	Pow-hattan KS	Topeka KS	Lex-ington KY	Queens-town MD	Columbia MO	Mead NE
Century 84 (II)	1.0	1.0	1.7	1.0	1.0	1.0	1.0
Chamberlain	1.0	1.0	3.0	2.2	2.0	1.3	1.5
Dunfield	2.0	1.0	3.3	3.3	2.0	1.4	2.2
Harper 87 (III)	1.0	1.0	2.0	1.3	1.3	1.0	1.0
Hobbit 87 (III dt)	1.0	1.0	1.0	1.8	1.0	1.1	1.0
A84-284033	1.7	1.0	3.7	3.0	1.7	1.0	1.5
A85-293030	1.0	1.0	1.3	1.8	1.7	1.3	1.0
A85-298051	1.3	1.0	2.3	1.8	1.7	1.0	1.3
A85-392026	1.0	1.0	1.7	1.3	2.0	1.0	1.0
A85-393001	1.0	1.0	3.3	2.0	2.0	1.0	1.7
A85-394009	1.3	1.0	2.7	1.8	2.0	1.6	1.5
C1695	1.0	1.0	1.0	1.5	1.3	1.0	1.0
HC82-3452	1.0	1.0	1.0	1.3	1.0	1.0	1.0
HC82-5044	1.0	1.0	1.0	1.5	1.0	1.0	1.0
HC82-5934	1.0	1.0	1.0	1.5	1.0	1.0	1.0
HC82-6195	1.0	1.0	1.0	1.5	1.0	1.0	1.0
HC83-2408	1.0	1.0	1.0	1.5	1.0	1.0	1.0
HC83-2546	1.0	1.0	1.0	1.5	1.0	1.0	1.0
HC83-3834	1.0	1.0	1.0	1.5	1.0	1.0	1.0
HC83-4507	1.0	1.0	1.0	1.3	1.0	1.0	1.0
HC83-4532	1.0	1.0	1.0	1.5	1.0	1.0	1.0
HC83-4589	1.0	1.0	1.0	1.7	1.0	1.0	1.0
HM8469 (IV)	1.0	1.0	1.7	1.5	2.0	1.3	1.0
HM8471	1.0	1.0	1.3	1.2	1.7	1.0	1.0
L83-3819	1.0	1.0	1.0	2.3	2.0	1.0	1.0
L83-7573	1.0	1.0	2.0	2.0	2.0	1.0	1.5
LN83-1709	1.0	1.0	1.7	1.5	1.7	1.0	1.2
Md83-2048	1.3	1.0	1.3	1.7	1.3	1.0	1.0
U80-64032	1.0	1.0	2.0	1.8	2.0	1.0	1.3
U80-68130	1.3	1.0	2.0	1.7	2.0	1.0	1.0

UNIFORM TEST III, 1987
LODGING (score)

Strain	Adel-phia IA	Hoyt-ville OH	Ripley OH	South Charleston OH	Wooster IN	Harrow IN	Landis-ville PA	Elk Point SD
Century 84 (II)	1.0	1.2	1.1	1.3	1.3	2.5	1.0	1.0
Chamberlain	1.3	1.4	1.2	2.5	1.4	4.0	2.0	1.3
Dunfield	3.7	2.0	1.8	4.8	1.4	5.0	2.7	3.0
Harper 87 (III)	1.0	1.3	1.0	1.3	1.3	2.3	1.7	1.0
Hobbit 87 (III dt)	1.7	1.3	1.0	1.1	1.2	1.5	1.3	1.0
A84-284033	1.3	1.3	1.1	1.5	1.3	3.7	1.7	1.7
A85-293030	1.0	1.2	1.0	1.1	1.3	2.5	1.7	2.0
A85-298051	1.0	1.3	1.0	1.3	1.3	3.3	2.0	1.3
A85-392026	1.7	1.3	1.0	1.3	1.3	1.8	1.7	1.0
A85-393001	1.7	1.4	1.4	2.5	1.3	4.0	1.3	1.3
A85-394009	1.3	1.6	1.4	1.8	1.3	3.5	1.3	2.0
C1695	1.0	1.2	1.0	1.0	1.2	1.2	1.0	1.0
HC82-3452	1.0	1.2	1.2	1.3	1.1	1.0	1.7	1.0
HC82-5044	1.0	1.2	1.0	1.0	1.1	1.0	1.0	1.0
HC82-5934	1.0	1.2	1.0	1.0	1.2	1.2	1.7	1.0
HC82-6195	1.0	1.2	1.0	1.0	1.2	1.3	1.0	1.0
HC83-2408	1.0	1.3	1.0	1.0	1.1	1.2	1.7	1.0
HC83-2546	1.0	1.3	1.0	1.2	1.2	1.0	2.0	1.0
HC83-3834	1.0	1.2	1.0	1.0	1.2	1.5	1.7	1.0
HC83-4507	1.0	1.2	1.0	1.0	1.2	1.0	1.7	1.0
HC83-4532	1.0	1.2	1.1	1.0	1.2	1.2	1.7	1.0
HC83-4589	1.0	1.2	1.1	1.2	1.2	1.5	1.7	1.0
HM8469 (IV)	1.0	1.4	1.2	1.2	1.3	2.2	1.7	1.0
HM8471	1.0	1.3	1.1	1.0	1.3	1.7	1.3	1.0
L83-3819	1.3	2.0	1.3	1.5	1.4	3.5	2.0	1.7
L83-7373	1.0	1.3	1.1	1.2	1.3	3.5	2.3	1.0
LN83-1709	1.0	1.3	1.0	1.0	1.3	3.0	1.0	1.0
Md83-2048	1.0	1.3	1.0	1.2	1.3	2.8	1.3	1.0
U80-64032	1.3	1.3	1.4	2.0	1.3	3.2	1.0	1.3
U80-68130	1.7	1.4	1.2	2.0	1.4	3.3	1.3	1.0

UNIFORM TEST III, 1987
PLANT HEIGHT (inches)

Strain	Mean 22 Tests	Cedar IA	Stuart IA	Eldo-rado IL	Urbana IL	Bluff-ton IN	Laf-ayette IN	Vin-cinnes IN
Century 84 (II)	32	38	41	36	41	31	36	28
Chamberlain	38	45	48	43	46	38	46	36
Dunfield	36	44	45	36	42	40	42	32
Harper 87 (III)	34	38	44	37	43	33	38	35
Hobbit 87 (III dt)	22	26	28	21	26	23	25	18
A84-284033	41	43	49	44	49	37	49	46
A85-293030	34	39	42	38	38	33	41	37
A85-298051	34	39	41	35	38	34	42	36
A85-392026	35	40	44	39	39	28	41	40
A85-393001	40	48	48	44	45	36	51	42
A85-394009	36	40	46	42	41	33	47	37
C1695	23	26	32	24	28	26	25	19
HC82-3452	20	22	26	20	22	23	22	18
HC82-5044	19	20	25	17	25	19	20	17
HC82-5934	21	23	27	21	24	19	25	19
HC82-6195	22	24	29	22	21	26	27	19
HC83-2408	20	24	26	19	22	21	20	17
HC83-2546	20	22	26	21	22	20	22	16
HC83-3834	21	23	28	22	21	21	22	18
HC83-4507	20	24	26	18	22	19	22	19
HC83-4532	21	23	26	20	21	21	23	18
HC83-4589	22	25	28	23	24	22	24	21
HM8469 (IV)	37	42	46	39	45	37	42	39
HM8471	34	39	42	36	41	33	39	36
L83-3819	31	37	41	31	31	34	34	25
L83-7573	35	43	44	40	43	34	46	34
LN83-1709	35	40	46	37	41	36	43	32
Md83-2048	37	40	46	38	45	34	45	42
U80-64032	33	40	40	39	39	30	38	31
U80-68130	36	46	44	40	45	37	46	38

UNIFORM TEST III, 1987
PLANT HEIGHT (inches)

Strain	Man-hattan KS	Pow-hattan KS	Topeka KS	Lex-ington KY	Queens-town MD	Columbia MO	Mead NE
Century 84 (II)	28	27	29	30	21	22	36
Chamberlain	39	28	41	36	27	31	42
Dunfield	41	28	36	36	25	28	43
Harper 87 (III)	36	26	39	30	26	27	37
Hobbit 87 (III dt)	19	22	16	23	15	15	24
A84-284033	43	30	42	40	35	37	47
A85-293030	34	24	34	34	27	27	38
A85-298051	35	24	34	36	25	27	38
A85-392026	33	25	35	32	28	26	37
A85-393001	43	29	47	37	34	34	44
A85-394009	35	27	36	34	30	28	43
C1695	17	21	15	26	18	16	28
HC82-3452	18	17	12	23	16	11	25
HC82-5044	13	15	13	22	14	9	24
HC82-5934	18	14	15	24	15	11	27
HC82-6195	17	21	17	21	18	13	23
HC83-2408	13	18	12	20	15	10	25
HC83-2546	15	18	13	22	15	12	24
HC83-3834	16	18	15	23	17	12	25
HC83-4507	14	20	13	19	15	11	23
HC83-4532	16	19	14	23	16	12	25
HC83-4589	18	20	16	23	17	11	25
HM8469 (IV)	37	30	37	31	29	28	39
HM8471	34	27	33	28	26	26	36
L83-3819	24	27	21	33	23	21	39
L83-7573	34	26	33	36	25	27	42
LN83-1709	35	24	35	33	26	27	41
Md83-2048	43	28	39	34	30	27	40
U80-64032	35	23	34	33	25	27	37
U80-68130	38	24	37	35	28	28	40

UNIFORM TEST III, 1987
PLANT HEIGHT (inches)

Strain	Adel-phia IA	Hoyt-ville OH	Ripley OH	South Charleston OH	Wooster IN	Harrow IN	Landis-ville PA	Elk Point SD
Century 84 (II)	30	29	26	35	26	41	25	44
Chamberlain	35	29	33	44	26	51	30	46
Dunfield	33	31	32	36	25	52	33	41
Harper 87 (III)	27	27	27	34	23	41	28	44
Hobbit 87 (III dt)	27	24	20	24	17	28	19	26
A84-284033	37	17	33	41	34	55	32	52
A85-293030	31	26	29	36	27	47	24	41
A85-298051	31	27	29	35	27	45	26	40
A85-392026	33	23	29	39	34	46	29	41
A85-393001	36	29	33	41	30	49	27	46
A85-394009	30	25	31	36	28	53	28	44
C1695	22	20	22	24	18	35	22	31
HC82-3452	20	21	21	22	14	26	20	23
HC82-5044	21	16	21	21	13	28	17	25
HC82-5934	24	22	21	26	16	29	22	28
HC82-6195	20	23	20	25	20	32	19	26
HC83-2408	21	20	20	25	11	30	20	23
HC83-2546	21	21	19	22	16	29	21	23
HC83-3834	21	17	21	23	16	27	21	29
HC83-4507	20	17	19	22	17	27	21	23
HC83-4532	23	21	21	21	17	27	20	25
HC83-4589	26	21	22	25	18	31	24	26
HM8469 (IV)	31	32	35	38	30	44	33	41
HM8471	30	29	29	34	28	42	28	43
L83-3819	31	29	30	35	29	39	30	40
L83-7573	31	28	29	31	27	45	33	43
LN83-1709	32	31	28	37	27	41	28	48
Md83-2048	35	27	32	35	30	47	29	43
U80-64032	31	25	28	32	24	46	25	40
U80-68130	31	25	28	40	27	47	28	48

UNIFORM TEST III, 1987
SEED QUALITY (score)

Strain	Mean 19 Tests	Cedar IA	Stuart IA	Eldo-rado IL	Urbana IL	Bluff-ton IN	Laf-ayette IN	Vin-cinnes IN
Century 84 (II)	2.2	--	2.0	3.2	1.7	1.5	1.5	2.0
Chamberlain	2.0	--	2.0	3.7	1.6	1.5	1.5	1.5
Dunfield	2.6	--	2.0	3.5	1.9	1.0	1.5	2.5
Harper 87 (III)	2.0	--	1.0	2.7	1.8	1.0	1.5	1.5
Hobbit 87 (III dt)	1.6	--	2.0	2.3	1.1	1.0	1.0	1.5
A84-284033	2.7	--	2.0	4.0	1.8	2.0	2.0	3.0
A85-293030	2.1	--	3.0	3.2	1.6	1.0	2.0	1.5
A85-298051	2.1	--	2.0	3.0	1.8	1.0	2.0	1.5
A85-392026	2.0	--	2.0	2.8	1.8	1.0	1.5	1.5
A85-393001	2.1	--	2.0	2.3	1.6	1.0	2.5	1.5
A85-394009	1.8	--	1.0	2.5	1.5	1.0	2.0	1.5
C1695	2.1	--	3.0	2.7	1.8	1.0	1.5	1.5
HC82-3452	1.7	--	2.0	3.2	1.1	1.0	1.5	2.0
HC82-5044	1.6	--	2.0	2.2	1.1	1.0	1.5	1.0
HC82-5934	1.6	--	2.0	2.3	1.1	1.0	1.0	1.0
HC82-6195	1.7	--	3.0	2.0	1.1	1.0	1.5	1.5
HC83-2408	1.8	--	2.0	2.3	1.1	1.0	1.5	2.0
HC83-2546	1.6	--	2.0	2.2	1.2	1.0	1.5	1.5
HC83-3834	1.8	--	2.0	2.0	1.1	1.0	1.0	1.5
HC83-4507	1.8	--	2.0	2.8	1.2	1.0	1.5	1.5
HC83-4532	1.8	--	2.0	2.3	1.1	1.0	1.5	1.5
HC83-4589	1.7	--	2.0	1.8	1.1	1.0	1.0	1.0
HM8469 (IV)	1.6	--	2.0	2.3	1.6	1.0	1.5	1.0
HM8471	1.5	--	1.0	2.2	1.1	1.0	1.0	1.0
L83-3819	1.7	--	2.0	2.8	1.5	1.0	1.0	1.5
L83-7573	1.8	--	1.0	2.7	1.5	1.0	1.5	1.5
LN83-1709	2.2	--	2.0	2.5	1.7	1.5	1.5	1.5
Md83-2048	1.7	--	2.0	2.3	1.4	1.0	1.0	1.0
U80-64032	2.7	--	3.0	3.5	1.9	1.5	2.0	2.0
U80-68130	2.4	--	2.0	3.7	1.8	1.5	2.5	2.5

UNIFORM TEST III, 1987
SEED QUALITY (score)

Strain	Man-hattan KS	Pow-hattan KS	Topeka KS	Lex-ington KY	Queens-town MD	Columbia MO	Mead NE
Century 84 (II)	3.0	2.0	--	2.0	2.7	--	2.3
Chamberlain	2.0	3.0	--	2.0	2.0	--	1.0
Dunfield	4.0	4.0	--	1.0	3.5	--	3.0
Harper 87 (III)	2.0	4.0	--	2.0	1.5	--	1.0
Hobbit 87 (III dt)	1.0	2.0	--	1.0	1.7	--	2.0
A84-284033	2.0	4.0	--	3.0	1.8	--	1.7
A85-293030	2.0	3.0	--	1.0	1.3	--	2.0
A85-298051	2.0	3.0	--	1.0	2.5	--	2.0
A85-392026	1.0	4.0	--	1.0	1.5	--	2.0
A85-393001	2.0	3.0	--	3.0	1.5	--	1.0
A85-394009	1.0	3.0	--	2.0	1.0	--	1.0
C1695	2.0	3.0	--	2.0	2.7	--	2.0
HC82-3452	1.0	2.0	--	1.0	1.7	--	1.0
HC82-5044	1.0	1.0	--	2.0	1.2	--	1.7
HC82-5934	1.0	2.0	--	2.0	1.2	--	2.0
HC82-6195	2.0	2.0	--	1.0	1.3	--	1.7
HC83-2408	2.0	3.0	--	2.0	1.3	--	1.0
HC83-2546	1.0	2.0	--	2.0	1.2	--	1.0
HC83-3834	2.0	3.0	--	2.0	1.5	--	1.0
HC83-4507	2.0	2.0	--	2.0	1.8	--	1.0
HC83-4532	2.0	2.0	--	2.0	2.0	--	1.0
HC83-4589	2.0	3.0	--	2.0	1.7	--	1.0
HM8469 (IV)	1.0	3.0	--	2.0	1.2	--	1.0
HM8471	2.0	2.0	--	2.0	1.0	--	1.0
L83-3819	1.0	2.0	--	2.0	1.3	--	2.0
L83-7573	1.0	3.0	--	2.0	2.0	--	1.3
LN83-1709	3.0	4.0	--	2.0	2.0	--	2.0
Md83-2048	2.0	3.0	--	2.0	1.2	--	1.0
U80-64032	4.0	4.0	--	1.0	2.7	--	2.3
U80-68130	1.0	4.0	--	3.0	2.3	--	1.0

UNIFORM TEST III, 1987
SEED QUALITY (score)

Strain	Adel-phia IA	Hoyt-ville OH	Ripley OH	South Charleston OH	Wooster IN	Harrow IN	Landis-ville PA	Elk Point SD
Century 84 (II)	1.3	1.5	2.3	2.0	--	2.0	3.2	3.0
Chamberlain	1.0	1.5	2.5	2.3	--	1.7	2.3	3.0
Dunfield	2.0	1.7	2.2	2.3	--	2.3	2.8	5.0
Harper 87 (III)	1.0	1.8	1.7	2.3	--	1.7	2.7	4.0
Hobbit 87 (III dt)	1.0	1.5	1.6	1.4	--	1.7	2.7	3.0
A84-284033	2.0	4.2	3.7	3.5	--	2.0	3.3	3.0
A85-293030	1.3	1.7	2.2	2.2	--	2.0	3.7	3.0
A85-298051	1.3	1.7	3.0	2.3	--	1.7	3.2	3.0
A85-392026	1.0	2.1	2.1	1.6	--	1.8	2.7	4.0
A85-393001	1.0	1.4	1.7	2.2	--	1.7	3.0	5.0
A85-394009	1.0	1.4	1.4	2.1	--	1.7	3.0	5.0
C1695	1.0	1.5	2.3	2.4	--	2.0	2.7	3.0
HC82-3452	1.0	1.3	2.4	1.7	--	1.5	2.5	3.0
HC82-5044	1.0	1.6	1.4	1.5	--	2.0	2.7	3.0
HC82-5934	1.0	1.4	1.9	1.6	--	1.3	2.7	3.0
HC82-6195	1.0	1.3	1.5	1.5	--	1.2	3.3	3.0
HC83-2408	1.0	1.5	1.9	1.6	--	1.5	2.7	3.0
HC83-2546	1.0	1.5	1.6	1.4	--	1.3	2.7	3.0
HC83-3834	1.0	1.4	1.7	2.3	--	1.3	2.8	3.0
HC83-4507	1.0	1.7	1.7	1.6	--	1.5	2.7	3.0
HC83-4532	1.0	1.6	2.1	1.8	--	2.0	2.8	3.0
HC83-4589	1.3	1.3	1.4	1.8	--	1.3	2.7	3.0
HM8469 (IV)	1.0	1.4	1.1	1.3	--	1.0	2.2	4.0
HM8471	1.0	1.4	1.4	1.5	--	1.0	2.5	3.0
L83-3819	1.0	1.4	1.4	1.6	--	1.7	2.3	3.0
L83-7573	1.0	1.7	1.7	1.7	--	2.0	2.7	3.0
LN83-1709	1.0	2.2	2.0	1.5	--	2.0	3.3	3.0
Md83-2048	1.0	1.7	1.2	1.8	--	1.3	2.5	4.0
U80-64032	3.0	3.0	2.4	3.0	--	2.5	3.5	3.0
U80-68130	1.0	2.1	2.8	2.2	--	1.8	3.5	5.0

UNIFORM TEST III, 1987
SEED SIZE (g/100)

Strain	Mean 19 Tests	Cedar IA	Stuart IA	Eldo-rado IL	Urbana IL	Bluff-ton IN	Laf-ayette IN	Vin-cinnes IN
Century 84 (II)	16.3	--	17.6	13.8	18.0	17.1	14.5	15.6
Chamberlain	16.1	--	18.6	11.6	16.4	15.9	16.4	16.3
Dunfield	14.8	--	17.0	12.0	15.5	15.7	15.5	15.9
Harper 87 (III)	17.9	--	19.3	14.3	18.1	17.9	16.2	17.5
Hobbit 87 (III dt)	14.0	--	14.7	11.4	14.9	13.8	14.0	15.0
A84-284033	17.1	--	19.4	15.3	20.1	16.1	16.0	19.4
A85-293030	15.1	--	17.1	12.2	15.5	14.7	14.4	15.2
A85-298051	13.6	--	15.9	10.7	14.6	13.8	14.0	14.1
A85-392026	14.5	--	17.3	11.8	15.5	14.4	14.3	14.3
A85-393001	13.8	--	16.4	10.7	14.6	14.0	13.6	13.4
A85-394009	15.5	--	17.2	12.3	16.4	15.9	15.9	15.8
C1695	14.1	--	15.6	11.8	14.1	13.0	13.6	14.4
HC82-3452	16.7	--	18.7	13.8	18.4	15.9	17.4	18.6
HC82-5044	13.0	--	13.4	10.5	15.3	11.6	12.7	13.0
HC82-5934	14.7	--	15.6	11.5	16.3	13.9	14.9	15.5
HC82-6195	14.7	--	16.5	12.1	13.0	14.6	15.3	17.0
HC83-2408	16.0	--	17.2	13.5	17.3	15.6	16.7	17.1
HC83-2546	13.8	--	14.8	10.6	15.3	13.1	14.0	14.1
HC83-3834	15.8	--	17.2	12.9	18.3	15.6	16.3	16.6
HC83-4507	14.8	--	15.6	10.8	16.7	14.0	14.0	15.4
HC83-4532	15.8	--	16.4	13.2	17.9	14.9	16.7	16.2
HC83-4589	15.1	--	15.4	11.8	15.7	13.8	14.6	15.5
HM8469 (IV)	12.9	--	15.1	9.7	13.7	13.3	13.2	12.5
HM8471	13.5	--	15.9	11.0	15.3	12.9	14.6	14.1
L83-3819	15.4	--	17.7	13.1	18.1	15.4	17.6	16.1
L83-7573	13.9	--	16.1	10.8	14.2	13.1	12.9	13.4
LN83-1709	14.4	--	16.2	12.0	15.7	14.9	14.4	14.3
Md83-2048	13.3	--	15.7	10.1	14.4	13.8	14.4	13.8
U80-64032	15.8	--	17.2	13.6	17.2	15.4	15.1	17.2
U80-68130	16.0	--	18.1	12.4	17.4	16.3	16.1	15.4

UNIFORM TEST III, 1987
SEED SIZE (g/100)

Strain	Man-hattan KS	Pow-hattan KS	Topeka KS	Lex-ington KY	Queens-town MD	Columbia MO	Mead NE
Century 84 (II)	18.6	23.2	--	13.9	13.6	9.8	16.5
Chamberlain	17.8	15.8	--	12.4	13.8	11.8	18.6
Dunfield	16.3	12.5	--	12.9	12.3	11.6	15.8
Harper 87 (III)	19.3	27.7	--	14.9	15.3	11.6	19.7
Hobbit 87 (III dt)	15.4	13.4	--	10.4	11.9	12.0	16.1
A84-284033	20.5	17.7	--	13.8	13.9	11.9	18.1
A85-293030	17.5	22.0	--	12.1	12.6	10.1	16.6
A85-298051	15.8	11.4	--	10.8	11.3	9.1	15.5
A85-392026	15.1	13.7	--	11.1	13.5	10.9	16.8
A85-393001	15.6	14.6	--	10.5	12.8	9.5	16.0
A85-394009	17.8	15.5	--	13.1	14.6	10.7	17.7
C1695	17.2	14.4	--	9.0	12.2	11.1	16.0
HC82-3452	18.6	15.6	--	11.7	14.1	16.2	17.9
HC82-5044	14.4	12.4	--	10.4	11.3	10.9	17.5
HC82-5934	16.8	13.0	--	11.6	12.8	12.3	16.4
HC82-6195	16.6	15.5	--	8.9	13.3	13.9	14.0
HC83-2408	18.4	16.1	--	12.3	14.1	12.3	17.9
HC83-2546	16.6	13.3	--	10.2	12.0	11.6	15.2
HC83-3834	19.1	15.3	--	12.0	12.7	16.3	17.5
HC83-4507	18.4	14.7	--	12.0	12.4	12.0	16.6
HC83-4532	17.7	13.8	--	11.9	12.2	13.8	18.5
HC83-4589	15.7	21.7	--	11.4	12.3	12.9	17.8
HM8469 (IV)	14.1	10.9	--	9.2	10.8	10.8	15.1
HM8471	15.4	13.5	--	10.2	11.3	10.1	13.7
L83-3819	17.9	16.1	--	9.8	12.3	12.5	17.9
L83-7573	14.8	20.3	--	10.5	11.2	10.0	15.6
LN83-1709	15.7	12.9	--	11.5	11.8	10.5	16.6
Md83-2048	15.1	13.9	--	9.5	12.1	10.4	14.8
U80-64032	17.6	23.0	--	11.2	13.0	11.0	16.9
U80-68130	16.7	22.5	--	11.0	14.4	10.9	17.3

UNIFORM TEST III, 1987
SEED SIZE (g/100)

Strain	Adel-phia IA	Hoyt-ville OH	Ripley OH	South Charleston OH	Wooster IN	Harrow IN	Landis-ville PA	Elk Point SD
Century 84 (II)	16.3	14.7	17.1	16.1	--	19.0	18.1	15.9
Chamberlain	20.0	15.9	14.1	17.0	--	20.1	18.3	15.7
Dunfield	14.7	15.0	14.8	16.0	--	16.6	15.9	15.2
Harper 87 (III)	19.0	19.4	17.3	17.2	--	20.6	17.9	16.9
Hobbit 87 (III dt)	15.3	14.2	14.9	13.9	--	16.5	13.2	14.6
A84-284033	17.3	16.1	16.9	17.9	--	20.4	16.9	17.5
A85-293030	16.0	14.0	14.0	15.9	--	18.1	14.5	14.9
A85-298051	14.0	12.9	13.2	14.3	--	16.3	14.4	15.6
A85-392026	16.7	15.3	13.6	14.7	--	17.5	15.3	14.4
A85-393001	14.3	14.3	12.5	14.3	--	16.8	14.3	13.3
A85-394009	18.3	15.4	14.9	16.3	--	18.4	17.2	10.7
C1695	15.3	14.7	13.4	14.9	--	16.0	14.8	17.0
HC82-3452	16.7	15.8	16.8	16.7	--	18.4	15.3	20.6
HC82-5044	12.7	13.0	14.0	12.8	--	14.0	14.4	13.6
HC82-5934	16.7	14.9	14.8	15.4	--	17.1	13.3	17.0
HC82-6195	17.3	15.2	12.6	15.2	--	18.9	11.0	18.5
HC83-2408	16.7	16.6	16.0	15.3	--	18.1	15.3	17.9
HC83-2546	14.7	13.8	13.5	13.7	--	16.4	12.7	16.7
HC83-3834	15.3	14.1	16.3	15.6	--	18.6	14.5	16.4
HC83-4507	15.3	14.0	15.4	14.6	--	17.2	14.9	16.7
HC83-4532	16.3	15.3	17.4	15.8	--	18.3	15.9	17.7
HC83-4589	15.0	14.8	14.4	14.2	--	17.9	15.3	15.9
HM8469 (IV)	14.7	13.5	11.3	12.0	--	16.2	14.1	14.3
HM8471	15.7	13.2	13.0	13.2	--	16.2	14.3	13.5
L83-3819	16.0	15.0	12.8	15.1	--	17.8	16.8	14.7
L83-7573	16.3	13.2	13.6	13.5	--	16.6	14.3	13.6
LN83-1709	16.0	14.5	13.5	14.9	--	17.7	15.6	14.0
Md83-2048	15.3	11.6	11.8	12.9	--	16.0	13.3	13.3
U80-64032	16.0	14.4	16.6	16.4	--	17.3	14.7	16.4
U80-68130	16.7	15.8	15.6	16.0	--	19.2	16.6	15.8

UNIFORM TEST III, 1987
PROTEIN (%)

Strain	Mean 5 Tests	Urbana IL	Lafayette IN	Ames IA	Manhattan KS	Hoytville OH
Century 84 (II)	41.8	42.3	43.4	41.3	43.2	38.8
Chamberlain	39.1	41.4	39.5	40.2	38.1	36.1
Dunfield	38.6	40.5	39.5	38.8	39.1	35.3
Harper 87 (III)	39.7	41.7	40.3	38.7	39.2	38.4
Hobbit 87 (III dt)	37.7	37.8	38.4	37.8	37.2	37.2
A84-284033	38.5	39.3	37.9	38.6	38.4	38.1
A85-293030	39.4	41.0	40.0	40.0	39.3	36.6
A85-298051	40.0	41.5	40.7	39.8	41.0	36.8
A85-392026	39.0	40.6	40.8	38.3	39.0	36.1
A85-393001	38.6	40.2	41.0	38.8	37.0	36.2
A85-394009	40.4	41.6	42.5	39.2	41.0	37.6
C1695	38.6	38.9	41.2	38.1	38.0	36.8
HC82-3452	39.3	40.1	40.4	38.4	39.5	38.1
HC82-5044	38.2	38.7	38.9	38.8	39.2	35.4
HC82-5934	38.4	38.9	39.7	35.5	39.7	35.5
HC82-6195	38.8	39.8	39.5	37.4	39.5	37.8
HC83-2408	40.7	42.0	41.1	39.3	42.2	39.1
HC83-2546	38.7	39.3	39.8	37.5	39.2	37.7
HC83-3834	40.0	41.0	40.7	38.8	41.5	38.2
HC83-4507	37.8	37.8	39.0	36.7	38.9	36.5
HC83-4532	38.0	38.2	39.3	37.1	39.3	36.3
HC83-4589	39.7	41.3	40.6	39.1	39.3	38.3
HM8469 (IV)	40.3	41.3	41.2	39.6	39.5	39.8
HM8471	39.9	40.9	40.8	38.4	39.5	39.8
L83-3819	39.9	40.5	40.8	39.7	40.9	37.5
L83-7573	39.2	41.9	39.9	40.0	38.5	35.6
LN83-1709	38.2	39.0	39.1	37.0	39.9	36.0
Md83-2048	38.8	40.3	39.2	39.7	37.9	36.8
U80-64032	38.9	39.8	39.4	39.5	39.9	36.0
U80-68130	38.0	38.7	40.1	36.8	37.9	36.3

UNIFORM TEST III, 1987
OIL (%)

Strain	Mean 5 Tests	Urbana IL	Lafayette IN	Ames IA	Manhattan KS	Hoytville OH
Century 84 (II)	20.9	20.9	20.4	20.8	20.3	21.9
Chamberlain	21.0	20.0	21.2	19.6	21.6	22.7
Dunfield	21.9	22.3	22.1	20.7	21.2	23.0
Harper 87 (III)	21.3	20.7	21.7	20.9	21.7	21.7
Hobbit 87 (III dt)	22.7	23.1	22.9	22.3	22.8	22.4
A84-284033	22.6	22.7	23.0	21.1	23.2	22.9
A85-293030	21.6	21.4	21.0	20.8	21.7	23.1
A85-298051	21.2	20.8	21.1	20.5	20.9	22.9
A85-392026	21.6	20.6	21.1	21.0	21.5	23.8
A85-393001	21.6	21.1	21.5	21.0	22.1	22.5
A85-394009	21.0	20.5	20.7	20.7	20.9	22.4
C1695	21.8	21.3	21.2	21.1	22.4	22.8
HC82-3452	22.5	22.9	22.5	21.9	22.4	23.0
HC82-5044	22.3	22.4	22.6	21.2	21.5	23.9
HC82-5934	21.7	21.9	20.9	20.6	22.1	22.9
HC82-6195	22.6	22.0	22.8	22.0	22.5	23.7
HC83-2408	21.5	21.2	21.5	21.1	21.3	22.2
HC83-2546	22.5	23.0	22.1	21.9	22.6	23.1
HC83-3834	22.3	22.6	22.3	21.8	21.8	23.0
HC83-4507	22.7	23.5	22.6	21.7	22.2	23.3
HC83-4532	22.7	23.3	22.2	22.0	22.6	23.6
HC83-4589	21.9	21.8	21.9	20.8	22.0	23.0
HM8469 (IV)	20.9	20.1	20.9	20.3	21.9	21.1
HM8471	21.6	21.0	21.7	21.3	22.3	21.9
L83-3819	20.3	20.4	20.6	18.8	19.8	21.8
L83-7573	20.3	19.2	19.9	19.4	21.0	22.1
LN83-1709	22.3	22.2	22.1	21.4	22.1	23.9
Md83-2048	22.0	21.9	21.9	20.1	22.3	23.6
U80-64032	21.5	22.1	21.0	20.0	21.6	22.7
U80-68130	21.6	21.7	20.6	20.9	21.8	23.0

PRELIMINARY TEST IIIA, 1987

Strain	Parentage	Generation Composited
Century 84 (II)	Century (5) X Williams 82	BC4 F3
Harper 87 (III)	Harper (6) X Williams 82	BC5 F2
HM8469 (IV)	Asgrow A3127 (4) X Williams 82	BC3 F2
A86-203006	Zane X Stine 3200	F5
A86-205020	L80-4389 X Tri-Valley Charger	F5
A86-205029	L79-3910 X Stine 3200	F5
A86-301003	A80-244036 X Hack	F5
A86-301006	Asgrow A1937 X Midwest Oilseeds 2050	F5
A86-301024	A81-356022 X LN78-1136	F5
A86-302015	A81-356022 X Zane	F5
A86-302016	Asgrow A1937 X Jacques J103	F5
A86-303014	A81-356022 X LN78-1136	F5
A86-304001	A81-156013 X Northrup King S1346	F5
A86-304004	A80-244036 X A80-344003	F5
A86-304023	A81-356022 X Zane	F5
A86-304035	A81-356022 X LN78-1136	F5
A86-305018	L80-4349 X Tri-Valley Charger	F5
HS84-3729	Asgrow A3127 X S Brand S48	F5
HS85-5719	Harper X Zane	F5
LN84-3897	HW79149 X HW79015	F5
LN84-4109	HW79149 X Harper	F5
LN84-4332	HW79149 X Harper	F5
LN84-4903	HW79149 X Asgrow A3127	F5
LN84-5430	HW79149 X Cumberland	F5
LN84-7577	Hack X HW79015	F5
LN84-11023	Williams 82 X LN80-8309	F5
LN84-15293	LN80-9447 X Asgrow A3127	F5
LN84-15336	LN80-9447 X Asgrow A3127	F5
LN84-17209	LN80-9447 X LN80-8309	F5
LN84-18266	LN80-9452 X Asgrow A3127	F5
LN84-18282	LN80-9452 X Asgrow A3127	F5
LN84-18302	LN80-9452 X Asgrow A3127	F5
LN84-21627	Hack X Asgrow A3127	F5
K1139	K1062 X A79-334010	F5
K1140	K1062 X S76-2203	F5
K1141	K1062 X A79-334010	F5
K1142	K1062 X A79-334010	F5
K1143	K1062 X A79-334010	F5
U84-67078	A74-305031 X U10727	F5
U84-70098	Nebsoy X L70T-543G	F5

PRELIMINARY TEST IIIA, 1987

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code		Chlorosis Score Ames	Shattering Score Manhatten	BSR - Ames Plant n %	BSR - Ames Stem n %
Century 84 (II)	PTBDYBl	I	2.5	1	100	90.0
Harper 87 (III)	PTBSYBl	I	3.8	2	100	92.1
HM8469 (IV)	PTTDYBl	I	2.7	1	100	73.8
A86-203006	PGBDYGr	I	2.8	2	100	94.5
A86-205020	PTBSYBr	I	3.2	2	100	81.7
A86-205029	WTTDYBl	I	3.7	2	100	92.2
A86-301003	PGTDYIb	I	3.7	2	100	90.5
A86-301006	PTBDYBr	I	2.5	1	100	81.9
A86-301024	PGTDYIb	I	2.8	2	100	65.4
A86-302015	PTBDYBl	I	2.7	2	100	78.9
A86-302016	PGBDYBf	I	2.7	3	100	57.7
A86-303014	PTTDYBl	I	3.7	1	100	56.7
A86-304001	WTBDYBr	I	3.2	2	90	60.7
A86-304004	WTBDYBl	I	4.5	1	100	78.8
A86-304023	PTBDYBl	I	2.7	2	90	54.1
A86-304035	WGTDYBf	I	4.2	2	100	51.6
A86-305018	Heterogen.	I	4.8	2	90	58.1
HS84-3729	PGBDYIb	I	2.7	1	90	38.7
HS85-5719	PGBSYIb	I	4.3	2	100	77.2
LN84-3897	WTBSYBl	I	4.5	2	100	40.3
LN84-4109	WGBSYBf	I	3.8	3	100	80.9
LN84-4332	PGBSYIb	I	4.0	2	100	96.6
LN84-4903	WTBDYY	I	4.8	2	100	93.8
LN84-5430	WGBSYBf	I	4.2	2	100	95.3
LN84-7577	PGBSYG	I	3.7	3	100	93.4
LN84-11023	PTBDYBl	I	2.8	3	100	86.1
LN84-15293	WTBDYBl	I	4.3	1	100	77.7
LN84-15336	WTBDYBl	I	2.3	1	100	67.6
LN84-17209	WTBDYBl	I	3.5	2	90	55.2
LN84-18266	PTBDYBl	I	2.7	1	100	82.7
LN84-18282	WTBDYBl	I	3.5	1	100	90.2
LN84-18302	WTBDYBl	I	3.2	2	100	79.2
LN84-21627	WGBDYBf	I	3.5	3	90	56.5
K1139	WGBDYBf	I	3.7	2	100	90.9
K1140	WGTDYBf	I	2.5	1	90	50.1
K1141	WGBDYBf	I	3.3	3	100	56.0
K1142	WGTDYBf	I	2.8	2	100	60.5
K1143	PTTDYBl	I	4.2	1	70	13.6
U84-67078	WGBDYBf	I	4.8	1	80	32.6
U84-70098	WGBDYBf	I	3.8	2	60	14.6

PRELIMINARY TEST IIIA, 1987

DISEASE DATA

Strain	BP	PR		PS	PSB	SMV
			Vickery	Lafayette		
	Urbana	Ames	Tolerance	a	n	a
	Score	Race 4	Score	%	%	Score
Century 84 (II)	1.0	R	4.6	29	14	3M
Harper 87 (III)	1.0	R	4.0	16	16	5E
HM8469 (IV)	1.0	S	3.8	41	10	4E
A86-203006	1.0	S	5.0	41	28	5E
A86-205020	1.0	S	4.0	23	46	5E
A86-205029	1.0	S	5.0	25	50	5E
A86-301003	1.0	S	6.2	8	50	5E
A86-301006	1.0	S	4.8	35	26	5E
A86-301024	1.0	S	4.6	20	36	5E
A86-302015	2.5	S	6.2	50	18	5E
A86-302016	1.0	S	6.2	87	16	5E
A86-303014	2.3	S	4.8	19	30	5E
A86-304001	1.0	S	5.2	35	38	5E
A86-304004	1.0	S	4.2	8	42	5E
A86-304023	1.0	S	3.8	29	20	5E
A86-304035	1.0	S	4.6	49	20	5E
A86-305018	1.0	S	4.0	39	25	5E
HS84-3729	1.0	S	6.0	24	18	2E
HS85-5719	1.3	S	4.8	9	22	5E
LN84-3897	1.0	S	4.6	50	30	5E
LN84-4109	1.0	H	5.4	45	22	5E
LN84-4332	2.5	H	4.2	43	40	5M
LN84-4903	2.3	S	4.4	24	20	-
LN84-5430	1.0	S	4.4	24	44	5E
LN84-7577	1.0	H	4.6	22	34	4E
LN84-11023	1.0	R	4.2	33	10	5E
LN84-15293	2.8	S	4.6	6	10	5E
LN84-15336	1.0	S	6.4	26	12	5E
LN84-17209	2.5	R	5.4	32	28	5E
LN84-18266	3.3	S	5.4	19	30	4E
LN84-18282	1.0	S	4.6	33	40	5E
LN84-18302	3.0	S	5.2	10	8	5E
LN84-21627	2.5	H	5.2	32	26	5M
K1139	1.0	S	4.6	4	16	5E
K1140	1.0	H	4.8	6	42	5E
K1141	1.0	R	5.0	20	30	4M
K1142	1.0	S	4.4	19	10	5E
K1143	1.0	S	4.2	21	22	5E
U84-67078	1.0	S	5.6	53	58	4E
U84-70098	1.0	S	5.6	39	26	5E

PRELIMINARY TEST IIIA, 1987
Regional Summary

Strain No. of Tests	Yield 8 bu/a	Rank 8 No.	Maturity 7 Date	Lodging 8 Score	Plant Height 8 In.	Seed Quality 7 Score	Seed Size 7 g/100	Composition Protein 5 %	 Oil 5 %
Century 84 (II)	46.8	40	-6.9	1.4	37	1.9	16.0	40.8	21.1
Harper 87 (III)	51.4	19	9-17.7*	1.4	38	1.9	18.1	39.5	21.7
HM8469 (IV)	54.2	7	+7.0	1.3	41	1.4	13.8	40.4	20.6
A86-203006	55.7	3	-3.9	1.5	36	2.4	16.7	39.1	21.7
A86-205020	49.0	34	-0.4	2.1	41	2.2	14.6	38.7	22.1
A86-205029	47.2	39	-2.0	1.6	38	1.9	16.4	37.9	21.7
A86-301003	50.8	25	-4.3	2.4	35	2.2	17.1	37.8	22.6
A86-301006	53.1	11	-1.1	2.0	38	2.3	14.8	39.3	22.2
A86-301024	57.3	1	-0.3	1.2	38	1.8	17.0	38.9	20.6
A86-302015	51.4	19	+1.6	1.5	42	2.1	18.3	39.5	21.2
A86-302016	50.0	30	+2.6	1.7	42	1.6	13.6	37.1	22.2
A86-303014	54.7	5	+2.0	1.7	37	2.1	17.1	39.4	20.8
A86-304001	49.6	31	-2.3	1.8	39	2.0	15.7	38.2	22.4
A86-304004	55.9	2	-1.4	3.1	38	2.6	17.5	39.4	21.3
A86-304023	50.4	28	+0.1	1.5	40	1.9	18.5	39.2	22.2
A86-304035	53.3	10	+5.6	1.6	37	2.4	15.9	39.6	20.5
A86-305018	50.5	27	+5.1	1.9	40	2.6	16.3	38.8	22.1
HS84-3729	54.0	8	+3.4	1.3	37	1.6	14.6	39.0	20.7
HS85-5719	50.6	26	-1.1	1.3	37	2.4	17.5	38.4	22.2
LN84-3897	51.3	21	+3.7	1.5	41	2.1	16.8	39.1	21.8
LN84-4109	51.9	15	-0.3	1.3	36	2.0	17.2	39.0	21.7
LN84-4332	52.1	14	-1.4	1.3	36	2.0	16.8	38.7	22.4
LN84-4903	51.5	17	+6.1	1.8	38	2.0	17.1	39.7	21.2
LN84-5430	48.2	36	+2.1	1.9	40	2.0	16.8	37.9	22.4
LN84-7577	51.5	17	+2.0	1.1	31	1.9	16.0	39.0	21.9
LN84-11023	47.9	37	-2.4	1.5	38	1.4	17.6	40.7	21.1
LN84-15293	51.1	23	-0.9	1.8	38	1.4	14.0	39.4	21.0
LN84-15336	54.3	6	-1.7	1.3	37	1.6	13.7	39.2	21.7
LN84-17209	49.6	31	+1.9	1.3	36	1.6	18.5	40.3	21.4
LN84-18266	55.1	4	-0.4	1.8	37	1.6	15.1	38.3	22.6
LN84-18282	49.5	33	-0.6	1.2	38	1.7	14.9	40.2	21.2
LN84-18302	50.2	29	+0.3	1.4	40	1.6	15.2	38.9	21.9
LN84-21627	51.2	22	+0.6	1.4	40	2.1	16.7	38.5	21.7
K1139	51.6	16	+2.9	2.7	41	1.7	15.4	38.8	20.9
K1140	52.2	13	+5.0	2.7	41	1.5	16.4	39.0	21.2
K1141	53.9	9	+1.7	1.8	42	1.9	17.4	39.1	21.0
K1142	52.5	12	+6.0	1.7	42	1.7	16.3	39.5	20.1
K1143	51.0	24	+6.4	2.7	45	1.7	15.3	37.3	21.6
U84-67078	47.7	38	-1.3	2.0	38	2.4	17.6	39.3	21.7
U84-70098	48.7	35	-2.7	2.0	40	2.3	17.3	39.3	21.4

*131 Days after Planting

PRELIMINARY TEST IIIA, 1987

Yield bu/a

Strain	Mean 8 Tests	Cedar IA	Stuart IA	Urbana IL	Lafa-yette IN	Man-hattan KS	Mead NE	Hoyt-ville OH	S. Charleston OH
Century 84 (II)	46.8	56.8	50.6	54.4	37.8	49.4	42.5	38.0	44.6
Harper 87 (III)	51.4	59.0	53.6	54.3	32.9	53.7	47.4	45.5	65.0
HM8469 (IV)	54.2	60.7	49.3	57.1	48.5	62.9	46.3	48.0	60.4
A86-203006	55.7	64.2	63.3	68.3	48.1	59.0	50.1	32.7	55.1
A86-205020	49.0	52.4	48.5	58.2	41.5	50.3	42.9	40.0	57.9
A86-205029	47.2	53.3	51.0	53.9	37.1	47.9	46.1	33.5	54.8
A86-301003	50.8	59.3	66.2	63.1	44.6	53.7	51.0	17.0	51.2
A86-301006	53.1	61.9	59.0	61.5	47.0	56.6	52.5	25.9	60.3
A86-301024	57.3	65.6	57.3	65.4	56.2	53.2	53.3	44.1	63.1
A86-302015	51.4	57.1	54.4	58.4	50.4	46.0	47.9	34.6	62.0
A86-302016	50.0	58.0	48.4	60.9	43.4	55.7	47.9	34.5	51.2
A86-303014	54.7	65.1	60.3	61.7	51.6	58.1	53.6	22.9	63.9
A86-304001	49.6	57.3	57.9	57.0	36.7	50.3	54.4	27.5	55.8
A86-304004	55.9	61.2	61.0	56.9	56.5	54.2	54.6	41.3	61.1
A86-304023	50.4	60.7	53.2	59.3	35.6	53.7	49.4	32.0	58.9
A86-304035	53.3	62.3	57.8	64.3	42.0	57.1	47.3	35.0	60.8
A86-305018	50.5	58.2	47.6	57.8	45.3	52.8	44.3	38.2	59.5
HS84-3729	54.0	62.1	56.5	67.1	43.3	61.5	49.5	36.6	55.0
HS85-5719	50.6	60.8	53.3	56.0	38.9	56.1	49.3	34.1	56.3
LN84-3897	51.3	58.6	53.8	61.0	43.2	49.9	48.7	33.7	61.9
LN84-4109	51.9	62.1	56.0	56.6	46.0	46.5	50.3	43.4	54.6
LN84-4332	52.1	58.4	51.8	57.9	46.5	51.8	46.6	45.6	57.9
LN84-4903	51.5	56.2	48.3	56.6	43.7	71.1	50.0	30.1	55.8
LN84-5430	48.2	59.7	49.4	53.7	32.6	51.3	47.6	35.6	55.3
LN84-7577	51.5	59.6	59.2	62.7	53.5	52.3	53.0	22.6	48.7
LN84-11023	47.9	56.1	52.8	54.2	47.2	42.1	48.3	33.7	49.3
LN84-15293	51.1	59.0	55.6	60.1	41.5	56.1	48.7	32.6	55.5
LN84-15336	54.3	61.6	58.3	63.0	45.1	48.9	54.9	44.4	58.0
LN84-17209	49.6	52.4	51.6	57.9	46.4	47.4	46.8	38.3	55.9
LN84-18266	55.1	58.9	54.0	61.9	45.8	60.5	53.6	45.0	61.0
LN84-18282	49.5	55.7	49.7	55.4	46.3	49.4	45.6	37.0	56.7
LN84-18302	50.2	55.8	52.7	60.1	42.2	53.2	50.0	34.5	53.2
LN84-21627	51.2	58.7	56.9	59.6	42.6	47.9	49.5	38.0	56.6
K1139	51.6	62.2	51.3	56.6	43.9	59.5	50.1	36.6	52.8
K1140	52.2	60.8	50.2	57.3	41.5	59.0	51.2	36.8	60.5
K1141	53.9	57.8	53.2	60.1	49.9	53.7	51.4	47.2	57.5
K1142	52.5	57.4	49.2	56.4	45.7	61.0	52.9	37.9	59.8
K1143	51.0	61.3	55.6	56.6	39.2	56.1	49.7	37.6	52.2
U84-67078	47.7	55.7	46.3	48.9	37.0	58.1	44.5	30.0	61.3
U84-70098	48.7	53.3	50.0	55.8	39.0	51.3	49.6	30.0	60.5
C.V.%		4.1	6.8	6.4	13.7	11.1	4.8	12.2	7.5
L.S.D. (5%)		4.9	7.3	7.3	12.3	12.2	3.8	8.9	8.7
Row Sp. (In.)		27	27	30	24	30	30	30	30
Rows/Plot		4	4	4	4	4	2	4	4

PRELIMINARY TEST IIIA, 1987
Yield Rank

Strain	Yield Rank	Cedar IA	Stuart IA	Urbana IL	Lafa-yette IN	Man-hattan KS	Mead NE	Hoyt-ville OH	S. Charleston OH
Century 84 (II)	40	31	29	35	34	32	40	13	40
Harper 87 (III)	19	19	19	36	39	18	30	4	1
HM8469 (IV)	7	14	34	24	7	2	34	1	12
A86-203006	3	3	2	1	8	7	14	16	29
A86-205020	34	39	36	19	28	29	39	10	18
A86-205029	39	37	28	38	35	35	35	31	31
A86-301003	25	18	1	5	19	18	12	40	30
A86-301006	11	8	6	10	10	12	9	37	13
A86-301024	1	1	10	3	2	22	6	7	3
A86-302015	19	30	16	18	5	39	27	25	4
A86-302016	30	26	37	12	22	16	27	26	36
A86-303014	5	2	4	9	4	9	4	38	2
A86-304001	31	29	8	25	37	21	3	36	25
A86-304004	2	11	3	26	1	17	2	9	7
A86-304023	28	14	21	17	38	18	22	18	16
A86-304035	10	4	9	4	27	11	31	24	9
A86-305018	27	25	39	22	17	24	38	12	15
HS84-3729	8	6	12	2	23	3	20	21	30
HS85-8719	26	12	20	32	33	13	23	28	23
LN84-3897	21	23	18	11	24	31	24	29	5
LN84-4109	15	6	13	27	14	38	13	8	32
LN84-4332	14	24	25	20	11	26	33	3	18
LN84-4903	17	32	38	27	21	1	16	33	25
LN84-5430	36	16	33	39	40	27	29	23	28
LN84-7577	17	17	5	7	3	25	7	39	39
LN84-11023	37	33	23	37	9	40	26	29	38
LN84-15293	23	19	14	13	28	13	24	32	27
LN84-15336	6	9	7	6	18	34	1	6	17
LN84-17209	31	39	26	20	12	37	32	11	24
LN84-18266	4	21	17	8	15	5	4	5	8
LN84-18282	33	35	32	34	13	32	36	18	21
LN84-18302	29	34	24	13	26	22	16	26	33
LN84-21627	22	22	11	16	25	35	20	13	22
K1139	16	5	27	27	20	6	14	21	34
K1140	13	12	30	23	28	7	11	20	10
K1141	9	27	21	13	6	18	10	2	20
K1142	12	28	35	31	16	4	8	15	14
K1143	24	10	14	30	31	13	18	17	35
U84-67078	38	35	40	40	36	9	37	34	6
U84-70098	35	37	31	33	32	27	19	34	10

PRELIMINARY TEST IIIA, 1987
Maturity (Date)

Strain	Mean 7 Tests	Cedar IA	Stuart IA	Urbana IL	Lafa-yette IN	Man-hattan KS	Mead NE	Hoyt-ville OH	S. Charleston OH
Century 84 (II)	-6.9		-12	-7	-8	+1	-8	-12	-2
Harper 87 (III)	9-17.7		9-21	9-8	9-17	9-20	9-27	9-21	9-10
HM8469 (IV)	+7.0		+6	+11	+4	+5	+7	+7	+9
A86-203006	-3.9		-8	-2	-3	-3	-1	-7	-3
A86-205020	-0.4		-4	-1	+6	-1	-1	-2	0
A86-205029	-2.0		-4	-1	-1	-3	-1	-4	0
A86-301003	-4.3		-8	-6	-4	-3	-2	-5	-2
A86-301006	-1.1		-4	0	+1	0	-2	-2	-1
A86-301024	-0.3		0	+2	-2	-1	-1	-1	+1
A86-302015	+1.6		0	+5	+4	-1	0	-2	+5
A86-302016	+2.6		+1	+4	+4	+1	+1	+3	+4
A86-303014	+2.0		+4	+4	+2	+2	+2	-1	+1
A86-304001	-2.3		-3	0	-3	-3	-2	-5	0
A86-304004	-1.4		-4	+1	+2	-3	-1	-5	0
A86-304023	+0.1		0	0	+3	0	+1	-4	+1
A86-304035	+5.6		+4	+8	+7	+5	+5	+3	+7
A86-305018	+5.1		+2	+7	+6	+7	+8	+2	+4
HS84-3729	+3.4		+2	+7	+2	+2	+3	+2	+6
HS85-5719	-1.1		-4	-1	-2	+1	0	-1	-1
LN84-3897	+3.7		+5	+5	+4	+6	+4	0	+2
LN84-4109	-0.3		0	+4	-3	0	-1	-1	-1
LN84-4332	-1.4		-2	+2	-4	-1	-3	-1	-1
LN84-4903	+6.1		+4	+9	+7	+5	+8	+1	+9
LN84-5430	+2.1		+2	+4	+1	+3	+1	+2	+2
LN84-7577	+2.0		0	+4	+5	+4	+2	-2	+1
LN84-11023	-2.4		-5	-2	-1	-3	-2	-3	-1
LN84-15293	-0.9		-1	+3	-2	-3	-1	-1	-1
LN84-15336	-1.7		-2	+1	-4	-3	-1	-2	-1
LN84-17209	+1.9		0	+4	+1	+3	+4	+1	0
LN84-18266	-0.4		0	+3	-1	-2	-1	-2	0
LN84-18282	-0.6		-2	+4	0	-2	-2	-2	0
LN84-18302	+0.3		0	+4	-2	-2	-1	0	+3
LN84-21627	+0.6		-1	+1	+1	+2	+1	-1	+1
K1139	+2.9		0	+4	+6	+5	+3	+2	0
K1140	+5.0		+5	+5	+4	+5	+6	+3	+7
K1141	+1.7		-1	+5	+2	+2	+2	-1	+3
K1142	+6.0		+6	+9	+7	+4	+7	+2	+7
K1143	+6.4		+7	+8	+4	+7	+8	+2	+9
U84-67078	-1.3		-4	-4	+3	-2	-1	-2	+1
U84-70098	-2.7		-5	-6	-1	-3	0	-3	-1
Date Planted	5-10	-	5-8	5-1	5-4	5-20	5-18	5-11	5-5
Days to Mature	131	-	136	130	136	123	132	133	128

PRELIMINARY TEST IIIA, 1987
Lodging (Score)

Strain	Mean 8 Tests	Cedar IA	Stuart IA	Urbana IL	Lafa-yette IN	Man-hattan KS	Mead NE	Hoyt-ville OH	S. Charleston OH
Century 84 (II)	1.4	1.6	1.8	1.0	1.8	1.5	1.0	1.2	1.0
Harper 87 (III)	1.4	1.7	1.6	1.0	2.3	1.0	1.0	1.3	1.3
HM8469 (IV)	1.3	1.5	1.4	1.0	2.0	1.0	1.0	1.3	1.5
A86-203006	1.5	1.9	1.8	1.0	2.3	1.0	1.0	1.2	1.5
A86-205020	2.1	1.9	2.7	3.5	2.5	1.5	1.3	1.4	1.8
A86-205029	1.6	1.6	2.0	2.0	2.5	1.0	1.0	1.1	1.5
A86-301003	2.4	2.3	3.0	4.0	3.0	2.5	1.0	1.2	1.8
A86-301006	2.0	2.5	2.2	2.0	2.5	2.0	1.5	1.3	1.8
A86-301024	1.2	1.4	1.4	1.0	1.8	1.0	1.0	1.2	1.0
A86-302015	1.5	1.9	1.7	1.0	3.0	1.0	1.0	1.3	1.0
A86-302016	1.7	2.2	1.9	2.0	2.0	1.5	1.3	1.3	1.5
A86-303014	1.7	2.2	2.3	2.0	2.3	1.0	1.0	1.2	1.5
A86-304001	1.8	2.0	2.1	2.5	2.5	1.5	1.0	1.2	1.3
A86-304004	3.1	3.4	3.4	4.5	3.5	3.5	1.8	1.5	3.0
A86-304023	1.5	1.9	1.8	1.5	2.3	1.0	1.0	1.3	1.5
A86-304035	1.6	1.9	1.7	2.0	2.0	1.5	1.0	1.2	1.3
A86-305018	1.9	2.2	2.0	2.0	2.5	1.5	1.5	1.3	1.8
HS84-3729	1.3	1.3	1.5	1.0	2.0	1.0	1.0	1.3	1.0
HS85-5719	1.3	1.7	1.5	1.0	2.0	1.0	1.0	1.2	1.0
LN84-3897	1.5	1.8	1.7	1.5	1.8	1.5	1.0	1.3	1.0
LN84-4109	1.3	1.5	1.8	1.0	2.0	1.0	1.0	1.2	1.0
LN84-4332	1.3	1.6	1.4	1.0	1.5	1.0	1.0	1.3	1.3
LN84-4903	1.8	1.9	1.9	2.5	3.0	1.5	1.0	1.4	1.3
LN84-5430	1.9	2.1	2.3	2.0	2.8	1.5	1.5	1.4	1.5
LN84-7577	1.1	1.2	1.1	1.0	1.5	1.0	1.0	1.3	1.0
LN84-11023	1.5	1.8	2.4	2.0	1.8	1.0	1.0	1.3	1.0
LN84-15293	1.8	2.6	1.8	2.0	2.8	1.5	1.0	1.3	1.5
LN84-15336	1.3	1.6	1.6	1.0	1.8	1.0	1.0	1.3	1.0
LN84-17209	1.3	1.6	1.4	1.0	1.8	1.0	1.0	1.2	1.0
LN84-18266	1.8	2.1	2.1	1.5	2.5	1.5	1.3	1.3	1.8
LN84-18282	1.2	1.3	1.3	1.0	1.5	1.0	1.0	1.3	1.0
LN84-18302	1.4	1.7	1.6	1.5	1.8	1.0	1.0	1.3	1.0
LN84-21627	1.4	2.0	1.4	1.0	2.3	1.0	1.0	1.2	1.5
K1139	2.7	2.8	3.3	4.5	3.0	2.5	1.5	1.3	3.0
K1140	2.7	2.7	3.1	4.5	3.3	3.0	1.3	1.2	2.0
K1141	1.8	2.3	1.9	2.0	2.3	1.5	1.3	1.3	1.5
K1142	1.7	2.0	1.7	2.0	2.0	1.5	1.3	1.3	1.5
K1143	2.7	2.9	3.2	4.0	3.0	3.0	1.8	1.3	2.0
U84-67078	2.0	1.7	1.8	3.0	2.5	2.5	1.0	1.2	2.3
U84-70098	2.0	1.9	2.3	3.0	2.5	2.5	1.0	1.2	1.8

PRELIMINARY TEST IIIA, 1987
Plant Height (Inches)

Strain	Mean 8 Tests	Cedar IA	Stuart IA	Urbana IL	Lafa-yette IN	Man-hattan KS	Mead NE	Hoyt-ville OH	S. Charleston OH
Century 84 (II)	37	42	40	39	37	42	34	27	33
Harper 87 (III)	38	43	44	41	41	39	33	27	34
HM8469 (IV)	41	44	46	44	40	44	37	33	37
A86-203006	36	41	40	42	38	38	33	26	31
A86-205020	41	44	44	43	44	44	39	29	39
A86-205029	38	42	46	41	38	37	34	27	39
A86-301003	35	40	41	36	39	38	33	21	33
A86-301006	38	42	46	42	39	39	40	22	35
A86-301024	38	42	46	40	42	37	36	25	34
A86-302015	42	46	46	44	44	42	41	31	40
A86-302016	42	47	52	45	42	44	43	30	36
A86-303014	37	42	45	40	40	37	37	24	33
A86-304001	39	44	45	43	42	38	38	27	38
A86-304004	38	40	46	42	40	38	35	27	33
A86-304023	40	45	46	42	41	38	38	29	42
A86-304035	37	43	44	39	38	37	33	28	34
A86-305018	40	43	45	45	41	42	40	29	36
HS84-3729	37	40	45	42	40	38	34	25	31
HS85-5719	37	42	42	42	39	38	35	24	31
LN84-3897	41	46	48	48	42	44	39	24	36
LN84-4109	36	40	44	42	38	33	35	26	32
LN84-4332	36	39	43	40	37	38	34	26	32
LN84-4903	38	40	44	41	42	38	38	26	34
LN84-5430	40	44	46	48	39	45	38	24	33
LN84-7577	31	33	37	34	37	33	31	18	27
LN84-11023	38	44	43	42	42	35	34	27	33
LN84-15293	38	42	42	43	41	39	37	26	33
LN84-15336	37	42	44	42	38	38	34	27	34
LN84-17209	36	40	44	40	36	36	32	24	32
LN84-18266	37	41	45	40	37	38	34	28	32
LN84-18282	38	44	46	41	40	38	36	28	33
LN84-18302	40	44	46	45	43	40	39	26	35
LN84-21627	40	46	44	45	42	41	38	27	37
K1139	41	46	44	47	41	45	40	30	38
K1140	41	46	44	41	43	42	40	28	40
K1141	42	46	46	47	44	39	40	33	38
K1142	42	44	48	46	45	44	43	28	39
K1143	45	50	52	49	42	49	44	30	42
U84-67078	38	43	44	41	40	42	36	24	37
U84-70098	40	46	46	40	42	41	36	25	40

PRELIMINARY TEST IIIA, 1987
Seed Quality (Score)

Strain	Mean 7 Tests	Cedar IA	Stuart IA	Urbana IL	Lafa-yette IN	Man-hattan KS	Mead NE	Hoyt-ville OH	S. Charleston OH
Century 84 (II)	1.9		2.0	1.7	1.5	2.0	2.0	1.6	2.4
Harper 87 (III)	1.9		2.0	1.8	1.5	2.0	2.0	2.0	1.8
HM8469 (IV)	1.4		2.0	1.3	1.0	1.0	1.3	1.5	1.7
A86-203006	2.4		3.0	2.0	3.5	2.0	2.3	2.0	2.0
A86-205020	2.2		3.0	1.9	2.5	2.0	1.8	2.1	2.3
A86-205029	1.9		2.0	1.7	1.5	2.0	2.0	1.7	2.3
A86-301003	2.2		2.0	1.8	2.0	3.0	2.0	2.3	2.2
A86-301006	2.3		2.0	1.8	2.5	2.0	1.3	3.8	2.4
A86-301024	1.8		2.0	1.3	2.0	2.0	2.0	1.6	1.7
A86-302015	2.1		2.0	1.7	2.0	3.0	1.5	1.9	2.4
A86-302016	1.6		1.0	2.0	1.5	2.0	1.5	1.6	1.9
A86-303014	2.1		2.0	1.7	2.0	4.0	1.8	1.6	1.8
A86-304001	2.0		2.0	1.5	1.5	3.0	2.0	1.7	2.0
A86-304004	2.6		3.0	1.8	2.5	4.0	2.3	2.3	2.3
A86-304023	1.9		1.0	1.8	2.5	3.0	1.8	1.4	2.0
A86-304035	2.4		2.0	2.0	3.0	3.0	2.0	2.7	2.2
A86-305018	2.6		3.0	2.0	3.5	3.0	2.0	2.3	2.7
HS84-3729	1.6		2.0	1.7	1.5	2.0	1.0	1.5	1.5
HS85-5719	2.4		2.0	2.0	2.5	5.0	2.0	1.7	1.8
LN84-3897	2.0		2.0	1.8	2.0	3.0	2.0	1.7	2.0
LN84-4109	2.0		2.0	1.7	2.0	3.0	2.0	1.6	1.6
LN84-4332	2.0		2.0	1.8	2.0	2.0	2.0	1.8	2.2
LN84-4903	2.0		2.0	1.8	2.0	2.0	2.0	2.1	2.2
LN84-5430	2.0		2.0	2.1	1.5	3.0	2.0	1.7	1.8
LN84-7577	1.9		1.0	1.8	1.5	4.0	2.0	1.8	1.4
LN84-11023	1.4		2.0	1.3	1.5	1.0	1.0	1.5	1.6
LN84-15293	1.4		2.0	1.1	1.0	1.0	1.3	1.4	2.2
LN84-15336	1.6		2.0	1.1	1.5	2.0	1.0	1.5	2.3
LN84-17209	1.6		2.0	1.5	2.0	2.0	1.3	1.3	1.4
LN84-18266	1.6		1.0	1.5	1.5	2.0	1.3	1.8	1.8
LN84-18282	1.7		2.0	1.8	1.5	2.0	1.3	1.6	1.8
LN84-18302	1.6		2.0	1.3	1.5	2.0	1.0	1.7	1.7
LN84-21627	2.1		3.0	1.5	2.0	3.0	2.0	1.3	2.2
K1139	1.7		2.0	1.7	1.5	2.0	1.3	1.2	2.0
K1140	1.5		2.0	1.3	1.0	2.0	1.3	1.4	1.6
K1141	1.9		3.0	1.7	2.0	2.0	1.5	1.5	1.5
K1142	1.7		2.0	1.7	2.0	2.0	1.0	1.5	1.8
K1143	1.7		2.0	1.1	2.0	2.0	1.5	1.3	2.0
U84-67078	2.4		3.0	1.8	2.0	3.0	2.0	2.8	2.2
U84-70098	2.3		2.0	1.8	2.5	3.0	2.0	2.2	2.4

PRELIMINARY TEST IIIA, 1987

Seed Size (g/100)

Strain	Mean 7 Tests	Cedar IA	Stuart IA	Urbana IL	Lafa-yette IN	Man-hattan KS	Mead NE	Hoyt-ville OH	S. Charleston OH
Century 84 (II)	16.0		16.3	15.9	15.1	17.8	17.7	14.1	15.1
Harper 87 (III)	18.1		18.9	17.0	15.3	18.3	19.9	20.1	17.4
HM8469 (IV)	13.8		14.8	12.9	14.0	14.3	14.6	14.0	12.1
A86-203006	16.7		17.8	17.2	15.7	15.9	19.0	15.8	15.6
A86-205020	14.6		14.1	13.6	14.9	13.5	16.0	15.8	14.6
A86-205029	16.4		17.2	15.4	14.5	16.5	18.6	16.2	16.1
A86-301003	17.1		18.4	17.1	16.2	16.7	19.7	16.2	15.5
A86-301006	14.8		15.4	13.4	14.0	17.2	15.5	14.7	13.7
A86-301024	17.0		17.7	16.4	16.3	18.3	18.0	16.9	15.1
A86-302015	18.3		19.7	17.6	17.5	18.8	19.3	18.0	17.4
A86-302016	13.6		14.3	12.8	14.0	13.7	14.6	13.8	12.1
A86-303014	17.1		18.2	17.3	15.8	17.8	18.7	16.5	15.4
A86-304001	15.7		15.8	15.3	15.0	16.2	17.7	15.0	14.6
A86-304004	17.5		18.8	16.9	17.2	17.2	19.4	16.4	16.4
A86-304023	18.5		20.1	18.0	17.4	18.1	21.4	16.4	18.2
A86-304035	15.9		16.9	15.2	15.6	15.9	17.3	15.2	15.3
A86-305018	16.3		17.6	15.6	16.4	15.2	17.3	17.0	14.8
HS84-3729	14.6		15.6	13.1	13.8	15.3	15.6	15.3	13.6
HS85-5719	17.5		18.4	16.5	16.0	18.3	18.8	17.4	17.1
LN84-3897	16.8		18.0	16.0	16.0	17.5	17.3	16.9	15.9
LN84-4109	17.2		18.2	17.0	16.0	16.8	18.7	17.8	15.8
LN84-4332	16.8		17.4	16.6	16.0	17.0	16.9	17.9	16.0
LN84-4903	17.1		18.3	17.0	16.1	17.7	17.1	18.2	15.2
LN84-5430	16.8		19.1	16.2	15.2	16.9	18.5	16.4	15.0
LN84-7577	16.1		16.6	15.8	15.8	16.9	17.3	15.7	14.8
LN84-11023	17.6		19.0	17.5	16.7	19.0	17.8	17.5	16.0
LN84-15293	14.0		14.8	14.0	14.8	13.5	15.1	13.5	12.4
LN84-15336	13.7		14.9	13.9	12.8	13.9	14.9	13.5	12.3
LN84-17209	18.5		20.8	17.0	18.7	18.3	19.6	18.5	16.7
LN84-18266	15.1		16.1	14.2	14.0	15.4	15.8	15.7	13.3
LN84-18282	14.9		15.6	14.6	15.0	15.9	15.7	13.8	13.9
LN84-18302	15.2		16.0	14.8	15.0	16.1	15.7	14.7	14.2
LN84-21627	16.7		18.8	16.1	15.8	17.1	17.7	15.6	16.0
K1139	15.4		16.4	13.6	14.9	17.6	16.6	14.8	14.2
K1140	16.4		17.4	14.4	15.1	18.9	17.1	16.5	15.3
K1141	17.4		18.4	17.2	16.9	17.2	17.8	18.4	16.1
K1142	16.3		17.3	14.9	15.1	18.0	17.3	15.9	15.7
K1143	15.3		16.2	13.2	14.9	17.4	17.1	14.6	13.6
U84-67078	17.6		18.4	16.5	16.4	18.0	19.2	17.1	17.3
U84-70098	17.3		18.4	15.7	17.5	18.4	17.9	15.8	17.5

PRELIMINARY TEST IIIA, 1987
Protein (%)

Strain	Mean 5 Tests	Urbana IL	Lafayette IN	Ames IA	Manhattan KS	Hoytville OH
Century 84 (II)	40.8	41.8	42.9	41.1	39.7	38.6
Harper 87 (III)	39.5	41.6	40.6	38.4	38.3	38.4
HM8469 (IV)	40.4	41.7	41.7	40.0	38.7	39.8
A86-203006	39.1	39.4	39.9	40.6	38.1	37.3
A86-205020	38.7	40.7	39.6	38.5	37.9	36.8
A86-205029	37.9	40.0	39.2	36.6	38.0	35.5
A86-301003	37.8	39.1	39.2	37.2	37.9	35.4
A86-301006	39.3	39.9	40.6	38.6	39.9	37.5
A86-301024	38.9	39.7	40.5	39.0	38.9	36.3
A86-302015	39.5	40.0	40.9	38.2	39.3	39.2
A86-302016	37.1	38.1	39.4	36.8	37.1	34.2
A86-303014	39.4	42.2	40.3	39.6	39.4	35.7
A86-304001	38.2	40.1	39.9	38.5	37.9	34.6
A86-304004	39.4	41.4	39.9	39.0	40.4	36.3
A86-304023	39.2	40.6	41.1	38.8	39.7	35.6
A86-304035	39.6	40.6	40.4	39.9	39.4	37.9
A86-305018	38.8	39.8	40.4	37.6	39.1	37.3
HS84-3729	39.0	39.5	39.8	39.0	39.2	37.3
HS85-5719	38.4	39.3	40.8	37.8	38.9	35.2
LN84-3897	39.1	40.8	38.3	40.0	38.2	38.0
LN84-4109	39.0	40.0	39.3	38.4	40.4	36.9
LN84-4332	38.7	40.6	39.9	37.8	38.1	37.0
LN84-4903	39.7	40.9	40.9	38.6	39.6	38.4
LN84-5430	37.9	39.7	40.6	38.2	37.0	34.1
LN84-7577	39.0	40.3	39.2	38.6	39.5	37.5
LN84-11023	40.7	41.5	42.0	40.7	41.1	38.3
LN84-15293	39.4	40.5	41.3	39.7	38.8	36.6
LN84-15336	39.2	41.1	40.5	38.2	38.5	37.5
LN84-17209	40.3	42.2	42.5	40.0	40.2	36.8
LN84-18266	38.3	39.4	40.5	37.5	37.2	36.8
LN84-18282	40.2	41.6	41.4	39.3	41.1	37.7
LN84-18302	38.9	39.3	40.0	39.3	38.7	37.2
LN84-21627	38.5	40.0	40.0	38.8	39.1	34.7
K1139	38.8	39.1	41.8	37.7	39.4	35.9
K1140	39.0	39.3	40.0	39.4	39.3	36.8
K1141	39.1	40.1	39.6	39.3	38.8	37.6
K1142	39.5	40.5	39.5	38.9	39.8	38.8
K1143	37.3	38.0	38.2	38.1	36.6	35.8
U84-67078	39.3	41.1	40.0	38.8	40.2	36.5
U84-70098	39.3	40.9	40.4	38.8	41.5	34.9

PRELIMINARY TEST IIIA, 1987
Oil (%)

Strain	Mean 5 Tests	Urbana IL	Lafayette IN	Ames IA	Manhattan KS	Hoytville OH
Century 84 (II)	21.1	21.2	20.9	20.1	20.8	22.5
Harper 87 (III)	21.7	22.1	21.5	20.9	21.9	22.0
HM8469 (IV)	20.6	20.3	21.0	19.8	21.1	21.0
A86-203006	21.7	21.4	21.8	21.2	21.6	22.4
A86-205020	22.1	22.1	21.9	21.8	21.4	23.2
A86-205029	21.7	21.3	21.4	21.2	21.5	23.3
A86-301003	22.6	22.4	22.1	22.1	22.4	24.0
A86-301006	22.2	22.6	21.6	21.6	21.9	23.4
A86-301024	20.6	20.5	20.2	19.4	20.7	22.3
A86-302015	21.2	20.8	20.8	20.6	21.9	22.1
A86-302016	22.2	22.1	22.3	21.3	21.6	23.9
A86-303014	20.8	20.2	20.7	20.1	20.3	22.8
A86-304001	22.4	22.4	21.4	21.0	22.7	24.7
A86-304004	21.3	20.8	20.9	21.0	20.5	23.5
A86-304023	22.2	23.0	21.0	21.6	21.3	24.1
A86-304035	20.5	20.5	20.4	19.9	20.1	21.8
A86-305018	22.1	22.1	21.9	21.8	21.5	23.2
HS84-3729	20.7	20.8	20.4	19.8	20.5	22.2
HS85-58719	22.2	22.2	22.2	21.4	21.6	23.6
LN84-3897	21.8	21.8	22.6	19.5	22.3	22.7
LN84-4109	21.7	22.6	22.0	21.2	20.3	22.6
LN84-4332	22.4	23.3	21.3	21.9	22.6	23.1
LN84-4903	21.2	21.7	20.3	21.0	20.7	22.5
LN84-5430	22.4	22.6	21.3	21.3	22.9	24.1
LN84-7577	21.9	21.9	21.4	21.6	21.8	23.0
LN84-11023	21.1	21.5	20.0	20.2	21.3	22.6
LN84-15293	21.0	21.4	20.3	20.6	20.6	22.1
LN84-15336	21.7	21.7	21.5	21.2	21.9	22.2
LN84-17209	21.4	20.2	21.4	20.6	21.1	23.5
LN84-18266	22.6	22.5	21.6	22.1	23.2	23.7
LN84-18282	21.2	20.6	20.1	21.3	21.4	22.7
LN84-18302	21.9	22.5	21.1	20.6	22.4	23.0
LN84-21627	21.7	21.7	21.8	20.8	21.4	22.9
K1139	20.9	21.1	20.8	20.3	20.8	21.6
K1140	21.2	21.9	21.1	19.9	21.0	22.1
K1141	21.0	21.4	21.3	19.4	21.0	21.7
K1142	20.1	20.0	19.8	19.1	20.4	21.0
K1143	21.6	21.7	22.2	19.9	22.0	22.0
U84-67078	21.7	21.9	21.5	21.2	20.9	23.0
U84-70098	21.4	21.8	20.9	20.7	20.8	23.0

PRELIMINARY TEST IIIB, 1987

Strain	Parentage	Generation Composited
Century 84 (II)	Century (5) X Williams 82	BC4 F3
Harper 87 (III)	Harper (6) X Williams 82	BC5 F2
HM8469 (IV)	Asgrow A3127 (4) X Williams 82	BC3 F2
C1705	A77-314013 X L73-4673	F5
C1707	Hardin X Pella	F5
C1708	Hardin X Pella	F5
C1710	L73-4673 X Wells BC(7)-19-1	F5
C1713	A78-121014 X HW79015	F6
C1714	A78-227016 X HW79015	F6
C1717	HW79015 X Cumberland	F5
C1718	HW79015 X Cumberland	F5
C1719	HW79015 X A79-334010	F6
C1720	HW79015 X A79-334010	F6
C1724	Winchester X PRX58-35	F5
HM8597	HW79116 X HW79022	F6
HM8636	Zane (3) X HW79149	BC2 F3
L83-2334	Williams 82 X L76-0038	F5
L83-2367	Williams 82 X L76-0038	F5
L83-7529	L73-4673 X L78-4094	F5
L84-6189	Williams 82 X L78-4245	F5
Hobbit 87 (III dt)	Hobbit (6) X Williams 82	BC5 F3
HC80-2652	L74U-495 X Elf	F5
HC81-1511	L74D-634 X Hobbit	F5
HC81-4452	H74-1773 X Sprite	F5
HC82-3146	Sprite X Hobbit	F5
HC82-3435	L74D-634 X Hobbit	F5
HC82-5156	L72U-2567 X Essex	F5
HC82-6775-2	HC75-5605 X Sprite	F5
HC82-7189-3	L74D-674 X Sprite	F5
HC82-7948-2	L74D-634 X Hobbit	F5
HC83-525-3	Gnome X Williams 82	F5
HC83-3277	HC76-4030 X Williams 82	F5
HC83-4513	L74D-634 X Hobbit	F5
HC84-238-2	HW74-678 X Sprite	F5
HC84-2481-1	HC78-353 X Sprite	F5
L82-4050	L71-3628 X Elf	F8
L83-3942	L78-8694 X L78L-688	F6
L83-3985	L78-8694 X L78-9069	F6
L84-3566	Jin Shen Chi (PI 407.718) X Gnome	F5
U83-70023	Hodgson X U66434	F6

PRELIMINARY TEST IIIB, 1987

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code		Chlorosis Score Ames	Shattering Score Manhatten	BSR - Ames Plant n %	BSR - Ames Stem n %
Century 84 (II)	PTBDYBl	I	2.5	1	100	89.7
Harper 87 (III)	PTBSYBl	I	3.8	2	100	100.0
HM8469 (IV)	PTTDYBl	I	2.7	1	100	75.3
C1705	WTTDYBr	I	3.8	2	100	88.1
C1707	PTBSYBl	I	3.8	1	100	94.3
C1708	PTBSYBr	I	3.2	1	90	75.7
C1710	PGBDYY	I	3.8	2	100	96.1
C1713	PGBSYBr	I	4.5	2	100	83.4
C1714	Heterogen.	I	2.7	2	90	53.8
C1717	PGBSYIb	I	3.3	2	100	71.8
C1718	PGBDYIb	I	3.5	2	90	59.1
C1719	PGBDYIb	I	4.2	1	70	51.0
C1720	PGBDYIb	I	2.8	1	90	65.5
C1724	WTTSYBl	I	4.0	1	80	53.3
HM8579	PTTDYBl	I	3.3	1	40	16.5
HM8636	PGBDYG	I	3.8	2	80	35.4
L83-2334	WTTDYBl	I	3.7	2	60	23.7
L83-2367	WTTDYBl	I	4.0	2	80	45.6
L83-7529	Heterogen.	I	2.8	1	80	43.7
L84-6189	WTTDYBl	I	3.0	3	60	24.8
Hobbit 87 (III dt)	WTTSYBl	D	2.5	1	90	72.2
HC80-2652	PTTSYBl	D	3.7	1	100	88.4
HC81-1511	WTTSYBl	D	3.2	1	100	66.3
HC81-4452	WTTDYBl	D	2.2	1	90	73.8
HC82-3146	WTTSYBl	D	3.2	1	100	89.6
HC82-3435	WTTDYBl	D	2.2	1	80	45.9
HC82-5156	PTTDYBl	D	1.5	1	80	54.6
HC82-6775-2	WTTDYBl	D	3.7	1	80	70.3
HC82-7189-3	PTTSTBl	D	1.8	1	100	84.4
HC82-7948-2	WTTSYBl	D	3.7	1	80	53.6
HC83-525-3	WTTSYBl	D	3.2	1	80	73.6
HC83-3277	WTTDYBl	D	2.5	1	60	39.4
HC83-4513	P+WTTDYBl	D	2.5	1	60	42.5
HC84-238-2	WTTSYBl	D	2.3	1	100	79.8
HC84-2481-1	P+WTTDYBl	D	2.0	1	50	35.8
L82-4050	PTTDYBr	D	2.0	1	50	25.1
L83-3942	PTTDYBl	D	2.8	1	70	34.2
L83-3985	PGTDYIb	D	3.3	2	30	11.8
L84-3566	P+WTTDYBl	I	3.5	3	80	38.1
U83-70023	PTBDYBl	D	1.7	1	80	66.6

PRELIMINARY TEST IIIB, 1987

DISEASE DATA

Strain	BP Urbana Score	PR Ames Race 4	PR Vickery Tolerance Score	PS a %	PSB Lafayette n %	SMV a Score
Century 84 (II)	1.0	R	4.4	29	14	3M
Harper 87 (III)	1.0	R	4.0	16	16	5E
HM8469 (IV)	1.0	H	4.0	41	10	4E
C1705	1.0	S	3.0	24	22	5E
C1707	1.0	S	5.4	15	24	5E
C1708	2.5	S	5.0	27	46	5E
C1710	1.0	S	5.0	48	26	5M
C1713	1.0	S	5.8	55	34	4E
C1714	1.0	S	4.8	54	28	5E
C1717	1.0	S	6.4	56	34	3E
C1718	1.0	S	4.6	68	24	4M
C1719	1.0	S	4.8	29	34	5E
C1720	1.0	S	4.4	22	38	4E
C1724	1.0	R	4.8	16	20	4E
HM8579	1.0	R	3.8	31	20	5E
HM8636	2.0	R	6.6	25	12	5E
L83-2334	1.0	R	5.0	30	16	4E
L83-2367	1.0	R	5.0	18	14	5E
L83-7529	1.0	S	5.8	53	20	4M
L84-6189	1.0	R	5.0	29	28	5E
Hobbit 87 (III dt)	1.0	R	7.4	3	2	3E
HC80-2652	1.0	S	6.0	3	10	5E
HC81-1511	1.0	S	7.4	0	22	4E
HC81-4452	1.0	S	4.8	0	2	5E
HC82-3146	1.0	S	4.6	0	6	3E
HC82-3435	1.0	S	5.0	5	18	2E
HC82-5156	1.0	S	5.0	13	2	2E
HC82-6775-2	1.0	S	4.6	7	4	2M
HC82-7189-3	1.0	S	4.6	8	10	2E
HC82-7948-2	1.0	S	3.6	5	12	2M
HC83-525-3	1.0	R	4.2	8	6	5E
HC83-3277	1.0	S	5.4	8	2	4E
HC83-4513	1.0	S	2.6	2	2	3E
HC84-238-2	1.0	H	2.8	1	4	1
HC84-2481-1	1.0	S	4.6	5	4	2M
L82-4050	1.0	S	4.8	2	6	5E
L83-3942	1.0	S	4.8	9	16	3E
L83-3985	1.0	S	4.8	9	12	-
L84-3566	1.0	H	3.0	14	24	5E
U83-70023	1.0	S	8.2	1	8	5E

PRELIMINARY TEST IIIB, 1987
Regional Summary

Strain No. of Tests	Yield 8 bu/a	Rank 8 No.	Maturity 7 Date	Lodging 8 Score	Plant Height 8 In.	Seed Quality 7 Score	Seed Size 7 g/100	Composition Protein 5 %	 Oil 5 %
Century 84 (II)	46.3	35	-7.4	1.2	34	2.1	16.8	41.5	20.9
Harper 87 (III)	53.4	7	9-18.3*	1.3	36	1.9	18.6	40.2	20.8
HM8469 (IV)	55.7	1	+6.6	1.3	39	1.5	14.0	39.8	20.7
C1705	50.6	19	-1.1	1.8	40	1.9	15.1	37.9	22.1
C1707	50.9	17	+0.1	1.5	41	2.4	17.1	38.9	21.7
C1708	48.9	26	-2.7	2.3	42	2.1	17.4	37.8	22.2
C1710	47.3	33	-2.9	1.9	44	2.3	16.6	38.7	21.2
C1713	51.2	14	+3.7	1.6	43	2.2	18.0	39.0	20.8
C1714	49.8	24	-0.6	1.5	40	1.9	16.8	37.7	22.1
C1717	55.0	3	+2.1	1.9	40	1.8	15.1	37.9	22.4
C1718	51.4	12	+0.6	1.5	42	1.8	15.1	39.5	21.4
C1719	52.6	8	+0.4	1.8	44	2.0	14.9	38.6	20.9
C1720	54.4	4	+0.6	1.9	40	1.8	17.0	39.4	20.9
C1724	51.1	15	-2.3	1.8	38	1.5	17.1	39.8	21.2
HM8597	55.6	2	+1.9	1.2	35	1.7	13.4	38.5	21.0
HM8636	54.2	5	-2.4	1.4	37	2.4	19.3	38.8	22.9
L83-2334	48.5	30	+6.3	1.8	44	1.7	16.6	39.5	21.3
L83-2367	50.9	17	+6.4	1.8	43	1.7	17.0	39.4	21.3
L83-7529	48.6	29	-0.9	1.4	39	2.1	16.3	38.3	20.9
L84-6189	52.6	8	+3.4	1.9	42	2.2	17.3	40.3	20.8
Hobbit 87 (III dt)	53.8	6	+1.4	1.2	25	1.6	15.2	37.8	22.8
HC80-2652	47.0	34	-2.4	1.1	25	1.8	17.1	39.0	21.9
HC81-1511	51.5	11	+1.1	1.1	25	1.7	17.0	39.3	22.3
HC81-4452	49.8	24	+4.4	1.1	27	1.6	14.6	39.1	20.5
HC82-3146	50.5	20	-1.7	1.1	24	1.5	16.5	36.9	23.5
HC82-3435	50.0	22	+0.6	1.0	22	1.3	16.0	38.6	22.5
HC82-5156	48.5	30	+3.9	1.1	25	1.5	13.9	39.8	22.2
HC82-6775-2	43.7	38	0.0	1.1	25	1.7	17.7	38.2	22.5
HC82-7189-3	50.0	22	+3.7	1.1	25	1.8	15.0	37.7	22.6
HC82-7948-2	51.1	15	+4.6	1.1	24	1.4	17.9	39.6	21.8
HC83-525-3	44.8	37	-1.9	1.1	24	1.6	14.4	40.3	21.3
HC83-3277	48.7	27	+4.0	1.2	24	1.5	15.0	39.4	21.9
HC83-4513	47.7	32	+2.4	1.0	24	1.4	16.1	38.7	22.7
HC84-238-2	45.0	36	-2.0	1.0	24	1.7	16.4	38.2	22.9
HC84-2481-1	41.6	39	+1.9	1.1	23	1.8	17.0	39.0	22.7
L82-4050	52.4	10	+0.7	1.2	29	1.7	18.4	38.3	21.4
L83-3942	51.4	12	+2.0	1.5	33	1.3	17.6	38.2	22.3
L83-3985	50.4	21	+5.0	1.6	37	1.6	15.7	39.5	21.9
L84-3566	48.7	27	+5.3	1.6	38	1.9	15.9	38.8	22.3
U83-70023	40.5	40	-2.1	1.1	21	1.4	14.5	39.9	22.4

*131 Days after Planting

PRELIMINARY TEST IIIB, 1987
Yield bu/a

Strain	Mean 8 Tests	Cedar IA	Stuart IA	Urbana IL	Lafa-yette IN	Man-hattan KS	Mead NE	Hoyt-ville OH	S. Charleston OH
Century 84 (II)	46.3	52.5	50.5	54.4	43.4	36.3	41.0	38.4	53.8
Harper 87 (III)	53.4	58.5	52.8	54.3	48.5	54.7	49.7	40.3	68.4
HM8469 (IV)	55.7	57.0	46.2	57.1	54.8	60.0	51.6	43.9	75.3
C1705	50.6	52.7	51.6	55.1	44.5	51.3	49.4	37.4	62.5
C1707	50.9	55.5	51.3	57.7	38.1	57.1	44.7	39.1	63.8
C1708	48.9	52.3	48.3	55.3	42.2	53.2	43.2	31.3	65.6
C1710	47.3	53.6	45.1	51.1	39.9	52.8	44.7	33.0	58.5
C1713	51.2	55.6	51.5	59.9	50.6	54.2	46.7	25.5	65.5
C1714	49.8	56.7	47.4	59.6	44.2	53.7	45.5	29.1	62.4
C1717	55.0	61.0	55.9	59.6	47.9	57.1	53.1	41.7	63.8
C1718	51.4	56.9	51.5	59.9	36.4	55.2	47.1	36.9	66.9
C1719	52.6	56.7	49.3	61.6	40.8	51.8	45.5	46.4	68.5
C1720	54.4	61.0	57.5	66.6	34.5	52.3	49.0	45.0	69.1
C1724	51.1	56.2	52.0	56.2	45.1	49.9	45.8	41.5	62.4
HM8597	55.6	63.2	56.3	66.1	47.3	60.5	46.5	38.4	65.9
HM8636	54.2	61.2	60.2	61.5	44.6	49.4	45.4	44.1	67.1
L83-2334	48.5	50.9	40.0	51.5	42.4	61.0	47.9	30.0	64.4
L83-2367	50.9	54.4	43.3	56.8	49.0	58.1	46.0	39.1	60.4
L83-7529	48.6	51.1	47.7	53.4	45.2	54.2	44.7	31.1	61.4
L84-6189	52.6	52.9	49.9	59.8	50.2	52.3	48.7	39.8	67.1
Hobbit 87 (III dt)	53.8	59.1	55.6	58.2	52.5	42.6	54.5	46.0	61.7
HC80-2652	47.0	56.0	47.3	48.2	52.0	34.8	48.5	36.2	52.7
HC81-1511	51.5	57.4	57.3	56.2	51.6	49.4	46.8	32.8	60.5
HC81-4452	49.8	57.7	49.0	48.4	46.9	43.1	45.4	45.7	62.1
HC82-3146	50.5	53.6	53.6	61.4	51.3	32.4	51.0	37.4	63.5
HC82-3435	50.0	57.9	56.5	58.6	50.7	32.4	51.7	34.4	58.1
HC82-5156	48.5	52.5	52.9	52.5	54.6	42.1	49.2	30.5	53.9
HC82-6775-2	43.7	50.4	46.8	47.4	47.5	20.8	39.6	35.1	61.6
HC82-7189-3	50.0	57.3	50.4	53.9	53.2	35.8	48.0	37.9	63.8
HC82-7948-2	51.1	59.5	55.8	57.5	49.6	33.4	45.4	46.4	61.4
HC83-525-3	44.8	52.7	45.9	50.0	42.9	22.7	41.2	41.0	61.7
HC83-3277	48.7	54.8	53.2	54.4	51.3	22.3	47.4	44.4	61.5
HC83-4513	47.7	57.9	50.8	56.2	48.4	31.9	46.4	34.8	55.0
HC84-238-2	45.0	53.7	47.8	42.5	43.6	29.0	49.5	37.5	56.2
HC84-2481-1	41.6	43.2	53.8	52.4	41.1	22.7	23.5	41.0	54.9
L82-4050	52.4	62.1	51.4	57.3	54.3	46.5	52.2	35.6	60.1
L83-3942	51.4	58.6	52.7	53.1	51.4	52.8	45.6	37.0	60.3
L83-3985	50.4	56.1	49.8	54.2	52.3	50.8	46.5	37.0	56.3
L84-3566	48.7	57.6	46.3	52.3	50.5	46.5	50.8	27.4	58.0
U83-70023	40.5	53.0	52.1	48.1	43.8	23.7	44.9	16.5	42.1
C.V. (%)		7.1	6.0	6.4	14.4	11.0	10.2	12.2	8.2
L.S.D. (5%)		7.9	6.2	7.3	13.8	10.1	7.8	8.9	10.1
Row Sp. (In.)		27	27	30	24	30	30	30	30
Rows/Plot		4	4	4	4	4	2	4	4

PRELIMINARY TEST IIIB, 1987
Yield Rank

Strain	Yield Rank	Cedar IA	Stuart IA	Urbana IL	Lafa-yette IN	Man-hattan KS	Mead NE	Hoyt-ville OH	S. Charleston OH
Century 84 (II)	35	34	23	23	31	28	38	18	38
Harper 87 (III)	7	9	13	25	18	8	8	13	4
HM8469 (IV)	1	16	36	16	1	3	5	8	1
C1705	19	32	17	22	27	18	10	21	16
C1707	17	24	21	13	38	5	33	15	12
C1708	26	36	29	21	34	12	36	33	9
C1710	33	28	38	34	37	14	33	31	30
C1713	14	23	18	6	13	9	20	39	10
C1714	24	19	32	9	28	11	27	37	17
C1717	3	4	6	9	20	5	2	9	12
C1718	12	17	18	6	39	7	18	25	7
C1719	8	18	27	3	36	17	27	2	3
C1720	4	4	2	1	40	12	12	5	2
C1724	15	20	16	20	25	20	25	10	17
HM8597	2	1	5	2	22	2	21	17	8
HM8636	5	3	1	4	26	21	29	7	5
L83-2334	30	38	40	33	33	1	16	36	11
L83-2367	17	26	39	17	17	4	24	16	27
L83-7529	29	37	31	28	24	9	33	34	24
L84-6189	8	31	25	8	15	16	13	14	5
Hobbit 87 (III dt)	6	7	8	12	5	26	1	3	20
HC80-2652	34	22	33	37	7	30	14	26	39
HC81-1511	11	14	3	18	8	21	19	32	26
HC81-4452	24	12	28	36	23	25	29	4	19
HC82-3146	20	28	10	5	10	32	6	22	15
HC82-3435	22	10	4	11	12	32	4	30	31
HC82-5156	30	34	12	30	2	27	11	35	37
HC82-6775-2	38	39	34	39	21	40	39	28	22
HC82-7189-3	22	15	24	27	4	29	15	19	12
HC82-7948-2	15	6	7	14	16	31	29	1	24
HC83-525-3	37	32	37	35	32	37	37	12	20
HC83-3277	27	25	11	24	11	39	17	6	23
HC83-4513	32	10	22	18	19	34	23	29	35
HC84-238-2	36	27	30	40	30	35	9	20	34
HC84-2481-1	39	40	9	31	35	37	40	11	36
L82-4050	10	2	20	15	3	23	3	27	29
L83-3942	12	8	14	29	9	14	26	23	28
L83-3985	21	21	26	26	6	19	21	24	33
L84-3566	27	13	35	32	14	23	7	38	32
U83-70023	40	30	15	38	29	36	32	40	40

PRELIMINARY TEST IIIB, 1987
Maturity (Date)

Strain	Mean 7 Tests	Cedar IA	Stuart IA	Urbana IL	Lafa-yette IN	Man-hattan KS	Mead NE	Hoyt-ville OH	S. Charleston OH
Century 84 (II)	-7.4		-10	-1	-6	-11	-9	-13	-2
Harper 87 (III)	9-18.3		9-20	9-8	9-17	9-22	9-29	9-22	9-10
HM8469 (IV)	+6.6		+6	+11	+5	+4	+5	+5	+10
C1705	-1.1		0	-1	+3	-2	-3	-3	-2
C1707	+0.1		-2	+2	+2	+2	-2	-3	+2
C1708	-2.7		-4	-3	+1	-4	-4	-4	-1
C1710	-2.9		-4	-3	+2	-4	-3	-7	-1
C1713	+3.7		+6	+6	+7	+4	+2	-2	+3
C1714	-0.6		+1	+2	+4	-3	-2	-6	0
C1717	+2.1		+3	+2	+3	+3	+3	-1	+2
C1718	+0.6		+2	0	+6	+1	-2	-4	+1
C1719	+0.4		0	+2	+5	0	-1	-4	+1
C1720	+0.6		+1	+4	+2	0	0	-3	0
C1724	-2.3		-2	-2	+3	-5	-3	-6	-1
HM8597	+1.9		+2	+4	+1	+1	-1	+1	+5
HM8636	-2.4		-2	-2	-2	-4	-2	-4	-1
L83-2334	+6.3		+6	+10	+6	+5	+6	+3	+8
L83-2367	+6.4		+6	+7	+7	+3	+7	+3	+12
L83-7529	-0.9		-2	+2	+1	-1	-3	-4	+1
L84-6189	+3.4		+4	+5	+4	+2	+2	0	+7
Hobbit 87 (III dt)	+1.4		0	+2	0	+1	+5	0	+2
HC80-2652	-2.4		-6	-3	-3	-2	0	-3	0
HC81-1511	+1.1		+2	+4	+1	-1	+2	-3	+3
HC81-4452	+4.4		+3	+3	+6	+3	+4	+1	+11
HC82-3146	-7.1		-5	0	-3	-1	-1	-2	0
HC82-3435	+0.6		+1	+2	+1	0	+2	-2	0
HC82-5156	+3.9		+2	+4	+6	+3	+3	-1	+10
HC82-6775-2	0.0		-1	0	0	0	0	0	+1
HC82-7189-3	+3.7		+4	+3	+6	+3	+3	-1	+8
HC82-7948-2	+4.6		+2	+4	+6	+4	+6	+3	+7
HC83-525-3	-1.9		-4	-4	-1	-1	0	-2	-1
HC83-3277	+4.0		+2	+4	+6	+5	+5	+2	+4
HC83-4513	+2.4		+2	+2	+3	+1	+3	+1	+5
HC84-238-2	-2.0		-4	-4	-3	+1	-1	-3	0
HC84-2481-1	+1.9		+4	+2	+3	0	+1	-1	+4
L82-4050	+0.7		+3	+1	0	-4	+1	-1	+5
L83-3942	+2.0		+4	+2	+2	-5	+1	-1	+11
L83-3985	+5.0		+5	+5	+7	+1	+3	+3	+11
L84-3566	+5.3		+6	+9	+7	+3	+5	-1	+8
U83-70023	-2.1		-2	-3	-2	-5	-1	-2	0
Date Planted	5-10	-	5-8	5-1	5-4	5-20	5-18	5-11	5-5
Days to Mature	131	-	135	130	136	125	134	134	128

PRELIMINARY TEST IIIB, 1987
Lodging (Score)

Strain	Mean 8 Tests	Cedar IA	Stuart IA	Urbana IL	Lafa-yette IN	Man-hattan KS	Mead NE	Hoyt-ville OH	S. Charleston OH
Century 84 (II)	1.2	1.2	1.4	1.0	1.5	1.0	1.0	1.2	1.3
Harper 87 (III)	1.3	1.3	1.4	1.0	2.0	1.0	1.0	1.2	1.5
HM8469 (IV)	1.3	1.6	1.6	1.0	1.8	1.0	1.0	1.4	1.3
C1705	1.8	1.6	1.9	2.5	3.0	1.0	1.3	1.3	1.8
C1707	1.5	1.7	1.5	1.5	2.3	1.0	1.0	1.4	1.8
C1708	2.3	2.2	2.8	4.0	3.0	1.5	1.3	1.2	2.5
C1710	1.9	2.3	2.2	3.0	2.3	1.0	1.5	1.2	2.0
C1713	1.6	1.9	1.8	2.0	2.3	1.0	1.0	1.3	1.8
C1714	1.5	1.8	1.9	1.0	2.0	1.0	1.0	1.1	1.8
C1717	1.9	2.0	2.1	3.0	2.3	1.5	1.3	1.3	1.5
C1718	1.5	1.9	1.7	1.5	2.0	1.0	1.0	1.3	1.8
C1719	1.8	2.2	1.8	2.0	2.3	1.0	1.3	1.5	2.5
C1720	1.9	1.9	2.1	2.5	2.8	1.0	1.5	1.3	2.3
C1724	1.8	1.8	1.7	2.0	2.8	1.0	1.3	1.3	2.8
HM8597	1.2	1.3	1.2	1.0	1.5	1.0	1.0	1.3	1.0
HM8636	1.4	1.7	1.6	1.0	2.3	1.0	1.0	1.3	1.5
L83-2334	1.8	2.2	1.6	2.0	2.3	1.0	1.3	1.4	2.8
L83-2367	1.8	2.3	1.6	1.0	2.8	1.0	1.5	1.6	2.3
L83-7529	1.4	1.6	1.3	1.5	2.0	1.0	1.0	1.1	1.8
L84-6189	1.9	2.1	1.7	2.0	2.5	1.5	1.3	1.4	2.3
Hobbit 87 (III dt)	1.2	1.2	1.1	1.0	1.0	1.0	1.0	1.2	1.8
HC80-2652	1.1	1.2	1.1	1.0	1.0	1.0	1.0	1.2	1.3
HC81-1511	1.1	1.1	1.2	1.0	1.0	1.0	1.0	1.1	1.5
HC81-4452	1.1	1.1	1.2	1.0	1.0	1.0	1.0	1.3	1.0
HC82-3146	1.1	1.1	1.2	1.0	1.0	1.0	1.0	1.2	1.5
HC82-3435	1.0	1.1	1.1	1.0	1.0	1.0	1.0	1.1	1.0
HC82-5156	1.1	1.1	1.1	1.0	1.0	1.0	1.3	1.1	1.0
HC82-6775-2	1.1	1.1	1.2	1.0	1.0	1.0	1.0	1.1	1.0
HC82-7189-3	1.1	1.1	1.2	1.0	1.0	1.0	1.0	1.3	1.0
HC82-7948-2	1.1	1.1	1.1	1.0	1.0	1.0	1.0	1.2	1.0
HC83-525-3	1.1	1.1	1.2	1.0	1.0	1.0	1.0	1.2	1.3
HC83-3277	1.2	1.1	1.2	1.0	1.0	1.0	1.0	1.4	1.5
HC83-4513	1.0	1.1	1.1	1.0	1.0	1.0	1.0	1.1	1.0
HC84-238-2	1.0	1.1	1.1	1.0	1.0	1.0	1.0	1.1	1.0
HC84-2481-1	1.1	1.1	1.1	1.5	1.0	1.0	1.0	1.2	1.0
L82-4050	1.2	1.6	1.3	1.0	1.0	1.0	1.0	1.2	1.3
L83-3942	1.5	1.9	1.7	2.0	1.5	1.0	1.3	1.5	1.3
L83-3985	1.6	2.1	1.7	2.0	2.0	1.0	1.3	1.8	1.0
L84-3566	1.6	2.2	1.5	1.5	2.0	1.0	1.5	1.2	1.5
U83-70023	1.1	1.2	1.2	1.0	1.0	1.0	1.0	1.1	1.0

PRELIMINARY TEST IIIB, 1987
Plant Height (Inches)

Strain	Mean 8 Tests	Cedar IA	Stuart IA	Urbana IL	Lafa-yette IN	Man-hattan KS	Mead NE	Hoyt-ville OH	S. Charleston OH
Century 84 (II)	34	38	42	39	38	21	32	27	34
Harper 87 (III)	36	39	44	41	41	27	36	26	34
HM8469 (IV)	39	44	47	44	46	28	38	29	37
C1705	40	44	48	45	46	29	40	27	40
C1707	41	43	46	44	43	40	38	31	45
C1708	42	48	46	49	48	30	41	28	48
C1710	44	50	50	49	51	39	45	28	41
C1713	43	49	50	48	50	35	44	27	42
C1714	40	46	46	46	47	27	39	26	39
C1717	40	44	43	40	44	43	38	30	37
C1718	42	46	47	43	47	43	39	30	37
C1719	44	46	50	47	46	41	42	35	45
C1720	40	42	46	43	44	39	38	29	40
C1724	38	42	44	43	47	25	36	31	39
HM8597	35	41	42	41	39	25	36	25	33
HM8636	37	42	42	40	44	27	35	29	36
L83-2334	44	48	50	48	51	43	42	29	43
L83-2367	43	52	50	49	50	31	41	31	41
L83-7529	39	47	46	46	45	28	36	29	37
L84-6189	42	46	47	43	45	39	41	29	42
Hobbit 87 (III dt)	25	28	28	23	22	29	25	20	27
HC80-2652	25	26	27	22	26	30	24	21	24
HC81-1511	25	26	26	25	25	27	24	21	24
HC81-4452	27	32	28	29	26	20	27	26	27
HC82-3146	24	25	26	23	24	23	24	21	23
HC82-3435	22	26	25	24	25	15	23	18	20
HC82-5156	25	26	30	23	24	28	24	21	24
HC82-6775-2	25	30	27	24	22	27	24	20	23
HC82-7189-3	25	26	25	23	24	30	24	21	25
HC82-7948-2	24	26	28	24	22	27	22	19	24
HC83-525-3	24	26	25	22	25	24	23	20	24
HC83-3277	24	22	26	22	23	23	24	24	24
HC83-4513	24	28	28	24	25	26	24	19	21
HC84-238-2	24	26	30	24	24	18	23	20	23
HC84-2481-1	23	20	27	19	24	27	24	20	23
L82-4050	29	32	36	26	31	27	30	22	28
L83-3942	33	38	36	27	36	21	36	33	34
L83-3985	37	40	40	32	41	35	40	34	36
L84-3566	38	44	46	44	44	29	38	27	34
U83-70023	21	26	25	23	25	15	24	12	21

PRELIMINARY TEST IIIB, 1987
Seed Quality (Score)

Strain	Mean 7 Tests	Cedar IA	Stuart IA	Urbana IL	Lafa-yette IN	Man-hattan KS	Mead NE	Hoyt-ville OH	S. Charleston OH
Century 84 (II)	2.1		2.0	1.7	2.0	3.0	2.0	2.1	1.8
Harper 87 (III)	1.9		2.0	1.8	2.0	2.0	2.0	2.2	1.6
HM8469 (IV)	1.5		2.0	1.3	1.0	2.0	1.5	1.6	1.2
C1705	1.9		2.0	1.5	1.5	3.0	2.0	1.7	1.5
C1707	2.4		2.0	1.9	3.5	3.0	2.0	2.4	2.1
C1708	2.1		2.0	1.7	2.5	2.0	2.0	1.8	2.4
C1710	2.3		2.0	1.9	3.0	3.0	2.5	2.0	2.0
C1713	2.2		2.0	1.9	2.0	3.0	2.0	2.6	1.7
C1714	1.9		2.0	1.7	1.5	2.0	2.0	1.8	2.1
C1717	1.8		1.0	1.5	2.0	3.0	1.5	1.4	2.0
C1718	1.8		1.0	1.7	1.5	3.0	1.8	1.7	2.2
C1719	2.0		2.0	1.5	2.0	3.0	1.8	1.6	1.9
C1720	1.8		1.0	1.8	2.0	2.0	2.0	1.8	2.0
C1724	1.5		1.0	1.1	1.5	2.0	1.5	1.5	2.0
HM8597	1.7		2.0	1.5	1.0	3.0	1.0	1.8	1.5
HM8636	2.4		3.0	1.8	2.5	3.0	2.5	2.1	2.0
L83-2334	1.7		1.0	2.0	1.5	2.0	2.0	1.7	1.7
L83-2367	1.7		2.0	1.5	1.5	2.0	2.0	1.7	1.5
L83-7529	2.1		2.0	1.9	2.0	3.0	2.0	1.7	2.0
L84-6189	2.2		3.0	1.8	2.0	3.0	2.0	2.0	1.6
Hobbit 87 (III dt)	1.6		2.0	1.1	1.0	2.0	1.5	1.8	1.5
HC80-2652	1.8		2.0	1.3	1.5	2.0	1.8	2.1	2.0
HC81-1511	1.7		2.0	1.3	1.5	2.0	1.3	1.7	2.2
HC81-4452	1.6		2.0	1.1	1.0	2.0	2.0	1.8	1.4
HC82-3146	1.5		2.0	1.1	1.5	1.0	1.3	2.0	1.7
HC82-3435	1.3		2.0	1.1	1.0	1.0	1.0	1.7	1.6
HC82-5156	1.5		2.0	1.1	1.0	2.0	1.0	1.7	1.6
HC82-6775-2	1.7		2.0	1.3	1.5	2.0	1.3	1.6	2.0
HC82-7189-3	1.8		3.0	1.1	1.5	2.0	1.5	1.4	2.0
HC82-7948-2	1.4		2.0	1.1	1.0	1.0	1.0	1.4	2.0
HC83-525-3	1.6		2.0	1.3	1.0	2.0	1.5	1.5	1.8
HC83-3277	1.5		2.0	1.1	1.0	2.0	1.3	1.4	1.6
HC83-4513	1.4		2.0	1.1	1.5	1.0	1.0	1.6	1.8
HC84-238-2	1.7		2.0	1.5	1.0	2.0	1.5	1.8	2.0
HC84-2481-1	1.8		2.0	1.5	1.5	2.0	1.5	2.0	1.8
L82-4050	1.7		2.0	1.3	1.5	2.0	1.3	1.7	1.8
L83-3942	1.3		1.0	1.1	1.0	1.0	1.8	1.8	1.7
L83-3985	1.6		2.0	1.1	1.5	2.0	1.8	1.8	1.3
L84-3566	1.9		2.0	1.8	2.0	2.0	2.0	1.8	2.0
U83-70023	1.4		2.0	1.1	1.0	2.0	1.0	1.6	1.2

PRELIMINARY TEST IIIB, 1987
Seed Size (g/100)

Strain	Mean 7 Tests	Cedar IA	Stuart IA	Urbana IL	Lafa-yette IN	Man-hattan KS	Mead NE	Hoyt-ville OH	S. Charleston OH
Century 84 (II)	16.8		16.4	15.9	16.8	20.0	17.3	14.8	16.7
Harper 87 (III)	18.6		18.6	17.0	17.5	18.4	20.3	19.5	18.6
HM8469 (IV)	14.0		14.7	12.9	15.0	14.6	15.0	12.4	13.4
C1705	15.1		16.0	14.9	15.4	16.0	15.9	13.1	14.3
C1707	17.1		18.2	17.3	16.6	19.0	18.1	14.7	16.1
C1708	17.4		18.0	17.0	16.9	19.8	17.8	14.3	17.7
C1710	16.6		16.1	16.0	17.8	18.5	17.3	13.7	16.5
C1713	18.0		18.6	17.5	19.3	17.9	20.0	15.4	17.0
C1714	16.8		17.6	15.7	17.6	18.4	17.7	14.4	16.5
C1717	15.1		15.8	14.0	14.7	16.3	16.7	14.4	14.0
C1718	15.1		15.2	14.8	15.5	15.2	16.0	12.9	14.9
C1719	14.9		15.2	13.9	14.2	15.6	15.9	14.2	15.2
C1720	17.0		18.1	16.5	16.7	18.3	17.6	15.2	16.5
C1724	17.1		17.6	17.0	17.4	17.3	17.4	15.6	17.2
HM8597	13.4		14.4	12.9	13.7	14.4	14.2	11.1	12.8
HM8636	19.3		19.6	19.9	19.8	19.4	20.9	17.3	18.4
L83-2334	16.6		17.8	14.4	16.9	16.5	18.0	16.1	16.4
L83-2367	17.0		18.3	14.9	18.5	16.3	17.5	17.4	16.0
L83-7529	16.3		17.0	15.0	16.8	16.7	18.1	13.8	16.5
L84-6189	17.3		18.2	16.3	17.6	17.6	18.5	16.3	16.9
Hobbit 87 (III dt)	15.2		15.1	14.3	15.2	17.8	15.6	14.0	14.5
HC80-2652	17.1		17.5	16.2	20.0	19.0	17.8	14.0	15.5
HC81-1511	17.0		16.8	18.1	17.9	18.0	18.8	13.3	16.2
HC81-4452	14.6		15.5	13.1	14.5	15.9	15.4	14.2	13.5
HC82-3146	16.5		16.2	16.4	16.9	20.6	18.0	12.3	15.2
HC82-3435	16.0		16.0	15.6	16.9	17.9	18.2	12.8	14.9
HC82-5156	13.9		13.4	12.6	15.5	14.6	15.0	13.2	13.3
HC82-6775-2	17.7		17.7	17.0	20.1	20.0	19.0	14.2	16.1
HC82-7189-3	15.0		15.0	14.3	14.5	16.3	16.6	13.8	14.3
HC82-7948-2	17.9		17.8	16.5	16.9	20.4	20.0	16.2	17.5
HC83-525-3	14.4		13.6	13.8	15.9	17.2	14.3	13.1	12.8
HC83-3277	15.0		14.0	13.5	15.0	19.0	16.7	13.5	13.4
HC83-4513	16.1		15.0	15.0	16.9	18.6	17.9	14.2	15.1
HC84-238-2	16.4		17.1	15.0	16.7	18.6	17.9	14.3	15.2
HC84-2481-1	17.0		17.6	16.5	17.3	18.6	18.5	14.6	16.0
L82-4050	18.4		19.1	18.0	19.8	20.2	19.5	16.4	15.6
L83-3942	17.6		17.8	15.8	19.0	20.4	18.5	15.2	16.3
L83-3985	15.7		16.1	14.5	17.4	17.9	16.8	13.1	14.4
L84-3566	15.9		17.1	15.2	18.5	15.7	17.7	12.7	14.6
U83-70023	14.5		14.7	12.6	15.1	17.1	14.4	13.3	14.4

PRELIMINARY TEST IIIB, 1987
Protein (%)

Strain	Mean 5 Tests	Urbana IL	Lafayette IN	Ames IA	Manhattan KS	Hoytville OH
Century 84 (II)	41.5	42.0	42.5	41.2	43.5	38.4
Harper 87 (III)	40.2	41.6	41.5	38.5	39.7	39.6
HM8469 (IV)	39.8	40.9	40.7	39.6	37.9	40.0
C1705	37.9	39.1	39.4	38.2	37.7	35.3
C1707	38.9	40.8	39.5	36.3	39.7	38.0
C1708	37.8	38.3	41.6	37.7	37.5	33.9
C1710	38.7	40.6	41.6	38.0	38.6	34.9
C1713	39.0	39.9	40.4	39.5	38.3	37.0
C1714	37.7	39.2	38.9	38.0	38.2	34.3
C1717	37.9	38.1	39.7	38.3	36.7	36.9
C1718	39.5	40.0	41.5	38.4	39.6	37.9
C1719	38.6	39.3	40.4	37.6	39.2	36.7
C1720	39.4	40.9	41.7	38.0	40.0	36.4
C1724	39.8	40.6	41.2	38.4	40.2	38.8
HM8597	38.5	40.2	39.8	37.7	37.7	36.9
HM8636	38.8	39.6	40.1	37.8	39.3	37.1
L83-2334	39.5	40.9	40.3	39.3	38.3	38.5
L83-2367	39.4	40.4	40.5	38.5	38.2	39.2
L83-7529	38.3	40.5	40.5	38.0	38.7	33.9
L84-6189	40.3	40.8	41.5	38.6	40.8	39.7
Hobbit 87 (III dt)	37.8	38.5	38.9	36.3	38.0	37.4
HC80-2652	39.0	39.6	39.7	38.9	39.8	37.1
HC81-1511	39.3	40.4	40.2	39.4	39.1	37.5
HC81-4452	39.1	39.4	39.8	37.9	40.2	38.2
HC82-3146	36.9	37.1	39.1	36.0	37.9	34.4
HC82-3435	38.6	39.9	39.6	38.8	37.7	36.8
HC82-5156	39.8	40.0	40.4	39.2	40.7	38.9
HC82-6775-2	38.2	38.8	40.6	37.6	38.3	35.6
HC82-7189-3	37.7	37.3	38.7	37.3	37.3	37.9
HC82-7948-2	39.6	40.6	41.3	38.0	39.5	38.6
HC83-525-3	40.3	40.8	42.2	39.7	39.9	38.7
HC83-3277	39.4	39.9	40.5	38.6	39.1	38.7
HC83-4513	38.7	38.2	39.8	38.0	39.7	37.9
HC84-238-2	38.2	38.8	40.2	37.7	37.5	37.0
HC84-2481-1	39.0	38.9	39.3	39.1	40.6	37.3
L82-4050	38.3	39.1	39.7	38.6	36.8	37.4
L83-3942	38.2	38.6	40.1	38.5	37.0	36.7
L83-3985	39.5	40.6	42.0	40.8	38.8	35.1
L84-3566	38.8	40.2	40.7	39.3	38.9	35.0
U83-70023	39.9	40.8	40.8	39.8	40.0	38.2

PRELIMINARY TEST IIIA, 1987
Oil (%)

Strain	Mean 5 Tests	Urbana IL	Lafayette IN	Ames IA	Manhattan KS	Hoytville OH
Century 84 (II)	20.9	21.1	20.9	20.3	19.9	22.1
Harper 87 (III)	20.8	21.1	20.9	20.4	20.7	20.7
HM8469 (IV)	20.7	20.5	20.8	19.9	21.9	20.2
C1705	22.1	23.4	22.4	20.6	21.1	23.2
C1707	21.7	22.0	22.1	22.6	20.2	21.4
C1708	22.2	23.1	20.9	21.1	21.5	24.6
C1710	21.2	20.5	20.9	20.5	20.4	23.5
C1713	20.8	21.0	20.6	20.2	20.6	21.5
C1714	22.1	22.1	21.4	21.5	22.0	23.4
C1717	22.4	23.0	22.8	21.0	22.9	22.4
C1718	21.4	21.5	21.5	21.6	20.6	21.6
C1719	20.9	21.5	20.7	20.0	20.3	22.2
C1720	20.9	20.5	20.8	21.1	20.0	22.2
C1724	21.2	21.8	22.1	20.7	20.6	20.9
HM8497	21.0	20.5	21.2	20.4	21.3	21.6
HM8636	22.9	24.1	23.2	22.0	22.5	22.8
L83-2334	21.3	21.3	22.3	19.9	21.4	21.7
L83-2367	21.3	21.1	22.1	20.6	21.1	21.7
L83-7529	20.9	20.2	20.7	20.9	20.2	23.2
L84-6189	20.8	21.2	21.6	20.1	20.2	21.0
Hobbit 87 (III dt)	22.8	23.6	23.0	22.3	23.3	22.0
HC80-2652	21.9	22.4	22.2	20.6	21.8	22.3
HC81-1511	22.3	22.6	22.5	22.3	21.9	22.4
HC81-4452	20.5	20.6	20.5	20.5	19.9	20.9
HC82-3146	23.5	24.6	22.7	23.1	23.2	24.1
HC82-3435	22.5	23.1	22.4	21.4	22.5	23.2
HC82-5156	22.2	23.4	22.3	21.1	21.9	22.2
HC82-6775-2	22.5	23.3	22.0	21.8	22.5	22.8
HC82-7189-3	22.6	23.3	22.6	21.7	22.3	22.9
HC82-7948-2	21.8	22.5	21.7	21.7	21.7	21.5
HC83-525-3	21.3	22.5	20.9	20.5	21.4	21.4
HC83-3277	21.9	22.9	21.8	21.2	22.0	21.8
HC83-4513	22.7	23.8	22.6	21.6	22.9	22.5
HC84-238-2	22.9	23.7	22.6	21.7	23.5	23.1
HC84-2481-1	22.7	24.0	23.5	21.4	22.1	22.5
L82-4050	21.4	23.1	21.2	19.1	22.1	21.4
L83-3942	22.3	23.4	22.3	21.1	22.7	22.0
L83-3985	21.9	22.3	21.4	19.9	22.5	23.6
L84-3566	22.3	22.4	22.0	21.0	22.3	24.0
U83-70023	22.4	22.3	22.4	21.5	22.7	23.3

UNIFORM TEST IV, 1987

Strain	Parentage	Previous Testing	Generation Composited
Chamberlain (III)	A76-304020 X Land O'Lakes Max	1	F4
Morgan (IV)	Union X Miles	4	F5
Ripley	Hodgson X V68-1034	5	F5
Stafford	V66-318 X V68-2331	-	F5
C1653	A75-305022 X Century	2	F5
C1692	A77-314013 X L73-4673	PTIVB	F5
HM8469	Asgrow A3127 (4) X Williams 82	UTIII	BC3 F2
K1126	H7847 X Forrest	PTIVA	F5
Ky82-0881	Desoto X Essex	PTIVA	F5
Ky82-1482	K1035 X Essex	PTIVA	F5
LN83-2356	LN78-2714 X HC76-4030	PTIVA	F4
LN82-2366	Sprite X L75-3632	1	F5
LS80-6521	Franklin X Pixie	2	F5
Md81-0953	A75-305022 X Elf	1	F5
S83-1004	Cumberland X Forrest	PTIVA	F5
S84-6484	Douglas X Peking	PTIVA	F5

DESCRIPTIVE DATA

Strain	Descriptive Code		Chlorosis Score Lamberton	Shattering Score Belle ville	Eldor ado	Lubb ock	Manhat tan
Chamberlain (III)	PTBSYBl	I	4.0	1.7	-	2.5	3
Morgan (IV)	WTTDYBl	I	4.0	1.0	1.7	2.0	2
Ripley	PGTSYBf	D	3.0	1.0	2.0	2.2	1
Stafford	PGTSYIb	D	4.0	1.0	1.0	1.5	1
C1653	WTBDYBr	I	4.0	1.0	2.0	2.0	1
C1692	WTBDYG	I	4.0	1.0	1.0	1.7	1
HM8469	PTTDYBl	I	4.0	1.0	1.0	1.5	1
K1126	WTTDYBl	I	4.0	1.0	1.0	1.5	1
Ky82-0881	PTTDYBl+Br	I	4.0	1.0	1.7	3.2	3
Ky82-1482	WTTDYBl	I	4.0	1.0	1.3	1.8	1
LN83-2356	PTTBYBl	I	4.0	1.0	1.3	1.5	2
LN82-2366	P+WGTDYBf	I	5.0	1.0	1.0	2.5	2
LS80-6521	PTBSYBl	I	4.0	1.0	1.0	2.5	1
Md81-0953	WTTSYBr	I	4.0	1.3	1.0	2.0	1
S83-1004	WGTSYBf	I	4.0	1.0	1.0	2.5	1
S84-6484	WTTSYBl	I	4.0	1.0	1.0	1.5	2

UNIFORM TEST IV, 1987

DISEASE DATA

Score	Mottling Score Eldorado	BTS Ames a Score	Mottling Orange %	PS %	PR Vickery Tolerance Score	PS Lafayette a %	PSB Lafayette n %	SMV a Score
Chamberlain (III)	3.0	4	0.0	11.0	5.4	22	16	5E
Morgan (IV)	3.0	3	0.0	1.3	5.0	35	18	5E
Ripley	1.0	3	0.0	2.7	4.4	3	4	4M
Stafford	2.0	4	0.0	0.3	3.8	0	8	1
C1653	3.0	3	0.0	8.0	5.6	37	28	5E
C1692	3.0	3	0.0	12.3	6.8	29	40	5E
HM8469	2.5	3	0.0	9.7	3.4	41	10	4E
K1126	2.5	3	0.0	7.3	5.6	37	8	5E
Ky82-0881	2.0	3	0.0	3.3	5.0	16	12	5E
Ky82-1482	2.0	3	0.0	23.7	5.2	25	4	2M
LN83-2356	2.5	4	0.3	4.3	4.2	14	16	5E
LN82-2366	1.0	4	0.0	17.3	4.4	39	8	3M
LS80-6521	3.0	4	0.3	1.6	4.0	12	2	5E
Md81-0953	3.5	3	0.0	2.6	3.6	23	10	5E
S83-1004	1.0	3	0.0	4.0	2.8	3	4	5M
S84-6484	1.0	2	0.0	3.3	3.2	16	18	5M

UNIFORM TEST IV, 1987

Regional Summary

Strain	Yield	Rank	Maturity	Lodging	Plant Height	Seed Quality	Seed Size	Composition Protein	Composition Oil
No. of Tests	19	19	18	19	19	18	17	5	5
	bu/a	No.	date	score	in.	score	g/100	%	%
Chamberlain (III)	39.9	16	-8.0	1.7	36	2.6	16.3	40.4	20.8
Morgan (IV)	42.0	8	9-22.6*	1.6	37	1.9	15.8	42.1	20.3
Ripley	42.3	7	-3.7	1.2	22	1.6	12.8	40.8	21.4
Stafford	40.5	15	+13.4	1.8	34	1.8	12.4	41.2	20.1
C1653	42.7	6	0.0	1.5	36	2.5	15.7	39.7	21.7
C1692	42.9	4	-2.2	1.7	35	2.3	16.9	41.1	21.1
HM8469	45.0	1	-3.2	1.4	34	1.7	13.2	41.8	20.4
K1126	40.7	14	-2.6	1.4	33	1.7	13.3	40.6	20.2
Ky82-0881	41.4	13	+2.3	1.6	37	2.0	13.8	41.1	19.5
Ky82-1482	41.9	10	+1.2	1.5	38	1.8	14.0	41.2	20.4
LN83-2356	42.9	4	-2.8	1.8	34	1.9	17.7	42.5	21.2
LN82-2366	44.7	2	-4.2	1.7	32	1.9	15.7	40.4	21.8
LS80-6521	41.8	12	+3.5	1.7	38	1.7	14.4	40.7	20.5
Md81-0953	42.0	8	-1.3	1.8	36	1.9	14.0	40.3	21.2
S83-1004	43.0	3	+2.1	1.7	39	1.6	12.1	40.8	20.3
S84-6484	41.9	10	0.0	1.5	34	1.9	16.5	41.7	20.6

*129 days after planting.

1986-1987 2-YEAR MEAN

No. of Tests	37	37	34	36	37	35	33	10	10
Chamberlain (III)	44.4	6	-7.7	2.0	37	2.6	17.0	40.4	21.0
Morgan (IV)	45.8	5	9-23.6*	2.0	38	2.0	16.8	42.4	20.4
Ripley	46.1	4	-4.0	1.2	22	1.6	13.2	40.2	21.2
C1653	47.5	2	-0.2	1.6	38	2.4	16.6	40.2	21.6
LN82-2366	47.8	1	-5.3	1.9	34	2.0	16.2	40.6	21.8
LS80-6521	44.0	7	+4.2	2.0	39	1.8	15.2	40.2	21.0
Md81-0953	46.5	3	-0.4	2.1	38	2.0	14.8	40.2	21.2

*129 days after planting.

1985-1987 3-YEAR MEAN

No. of Tests	54	54	48	53	54	52	49		
Morgan (IV)	45.5	3	9-25.2*	1.9	38	2.1	17.0	42.6	20.6
Ripley	46.9	2	-3.0	1.3	23	1.6	13.6	40.1	21.4
C1653	47.5	1	-0.1	1.4	36	2.4	17.2	40.4	21.8
LS80-6521	43.8	4	+3.6	1.9	38	1.9	15.6	40.4	21.4

*129 days after planting.

UNIFORM TEST IV, 1987
YIELD (bu/a)

Strain	Mean 19 Tests	Belle-ville IL	Carbondale IL	Eldorado IL	Lafayette IN	Vincennes IN
Chamberlain III	39.9	37.7	28.9	45.0	47.1	55.6
Morgan (IV)	42.0	56.3	37.4	47.0	34.7	69.8
Ripley	42.3	36.3	44.4	41.8	38.7	70.6
Stafford	40.5	57.3	58.6	43.8	31.8	51.7
C1653	42.7	49.7	45.0	39.5	33.2	68.7
C1692	42.9	37.5	37.6	49.6	39.7	84.2
HM8469	45.0	49.1	42.0	48.4	38.8	78.2
K1126	40.7	43.7	39.7	42.0*	35.0	67.3
Ky82-0881	41.4	54.0	37.1	46.9	28.1	65.2
Ky82-1482	41.9	50.4	40.0	42.2	32.0	72.6
LN83-2356	42.9	39.7	39.1	42.1	45.1	72.7
LN82-2366	44.7	38.1	44.0	55.9	42.8	84.9
LS80-6521	41.8	57.6	43.0	49.8	47.7	72.5
Md81-0953	42.0	45.3	38.5	42.7	35.9	65.4
S83-1004	43.0	61.9	40.7	54.4	35.2	70.0
S84-6484	41.9	52.8	31.9	45.2	45.3	76.1
C.V. (%)		14.7	13.2	7.3	14.9	8.1
L.S.D. (5%)		11.5	8.8	5.6	9.5	9.5
Row sp. (in.)		30	30	30	24	15
Rows/plot		4	4	4	4	5
Reps		3	3	3	3	3

*Calculated from 2 reps.

YIELD RANK

Chamberlain III	16	14	16	9	2	15
Morgan (IV)	8	4	13	6	12	10
Ripley	7	16	3	15	8	8
Stafford	15	3	1	10	15	16
C1653	6	8	2	16	13	11
C1692	4	15	12	4	6	2
HM8469	1	9	6	5	7	3
K1126	14	11	9	14	11	12
Ky82-0881	13	5	14	7	16	14
Ky82-1482	10	7	8	12	14	6
LN83-2356	4	12	10	13	4	5
LN82-2366	2	13	4	1	5	1
LS80-6521	12	2	5	3	1	7
Md81-0953	8	10	11	11	9	13
S83-1004	3	1	7	2	10	9
S84-6484	10	6	15	8	3	4

UNIFORM TEST IV, 1987
YIELD (bu/a)

Strain	Man-hattan KS	Pow-hattan KS	Lexing-ton KY	Queens-town MD	Loam Portage-ville MO	Clay Portage-ville MO	Columbia MO
Chamberlain III	40.0	40.0	25.8	28.6	36.2	35.6	17.8*
Morgan (IV)	44.5	36.1	25.8	29.9	42.1	35.9	30.7
Ripley	42.9	38.4	27.3	29.6	42.7	38.1	25.4
Stafford	49.7	48.7	14.8	42.4	35.3	37.6	39.1
C1653	52.3	41.6	25.9	31.8	39.2	34.7	28.4
C1692	46.8	43.6	28.3	30.0	43.0	29.4	39.1
HM8469	54.2	43.2	29.1	35.6	46.5	38.9	33.9
K1126	51.9	40.3	27.4	27.8	40.5	35.5	27.5
Ky82-0881	48.1	47.1	24.1	32.8	40.8	34.7	33.6
Ky82-1482	46.5	43.2	22.2	35.7	41.6	38.3	29.6
LN83-2356	50.0	37.4	26.6	31.9	45.4	36.3	28.7
LN82-2366	53.6	40.0	29.8	33.5	47.1	36.7	30.4
LS80-6521	40.0	36.1	19.9	31.7	43.9	33.0	29.0
Md81-0953	50.7	46.1	26.9	35.1	42.3	34.1	22.1
S83-1004	44.5	42.6	24.9	36.6	45.7	38.5	36.7
S84-6484	46.1	40.0	22.6	33.7	46.8	37.5	27.8
C.V. (%)	12.9	9.7	7.7	10.2	7.1	8.5	12.5
L.S.D. (5%)	10.2	6.7	3.4	5.6	5.1	5.1	6.3
Row sp. (in.)	30	30	30	30	30	30	30
Rows/plot	4	4	4	4	4	4	4
Reps	3	3	3	3	3	3	3

*Severe charcoal root rot.

YIELD RANK

Chamberlain III	15	10	9	15	15	10	16
Morgan (IV)	12	15	9	13	10	9	6
Ripley	14	13	5	14	8	4	14
Stafford	7	1	16	1	16	5	1
C1653	3	8	8	10	14	12	11
C1692	9	4	3	12	7	16	2
HM8469	1	5	2	4	3	1	4
K1126	4	9	4	16	13	11	13
Ky82-0881	8	2	12	8	12	12	5
Ky82-1482	10	5	14	3	11	3	8
LN83-2356	6	14	7	9	5	8	10
LN82-2366	2	10	1	7	1	7	7
LS80-6521	15	15	15	11	6	15	9
Md81-0953	5	3	6	5	9	14	15
S83-1004	12	7	11	2	4	2	3
S84-6484	11	10	13	6	2	6	12

UNIFORM TEST IV, 1987
YIELD (bu/a)

Strain	Lincoln NE	Adelphia NJ	Ripley OH	South Charleston OH	Landis-ville PA	Lubbock TX	Orange VA
Chamberlain III	51.5	51.6	32.9	58.4	52.3	44.9	28.0
Morgan (IV)	36.6	48.4	36.0	54.4	55.3	45.8	30.1
Ripley	56.3	49.5	38.4	51.5	55.4	44.8	30.8
Stafford	13.5	40.1	20.6	38.4	45.0	60.3	37.3
C1653	44.1	49.9	37.9	54.3	58.0	51.7	26.2
C1692	45.6	42.0	36.3	56.0	51.1	48.4	25.7
HM8469	49.1	51.0	30.2	58.5	57.3	40.8	30.3
K1126	50.3	44.3	31.2	45.8	50.0	43.9	29.0
Ky82-0881	41.0	35.1	31.5	49.9	57.0	48.8	31.3
Ky82-1482	37.8	40.0	29.1	47.9	57.4	57.5	32.5
LN83-2356	47.4	58.6	35.7	54.7	53.1	43.9	26.8
LN82-2366	53.8	46.2	35.1	60.4	48.4	43.9	23.9
LS80-6521	37.9	48.6	27.5	50.7	51.1	43.3	30.3
Md81-0953	45.8	46.0	35.9	56.5	55.1	43.4	30.6
S83-1004	40.2	41.0	27.3	46.9	50.0	49.6	30.6
S84-6484	38.5	42.2	26.5	56.2	51.4	48.4	28.0
C.V. (%)	11.1	16.0	9.8	8.0	7.6	8.5	5.9
L.S.D. (5%)	8.0	3.3	5.1	7.1	6.7	6.7	2.9
Row sp. (in.)	30	30	28	30	24	40	30
Rows/plot	4	4	4	4	4	4	2
Reps	3	3	3	3	3	3	3

YIELD RANK

Chamberlain III	3	2	8	3	9	9	11
Morgan (IV)	15	7	4	8	6	8	9
Ripley	1	5	1	10	5	10	4
Stafford	16	14	16	16	16	1	1
C1653	9	4	2	9	1	3	14
C1692	8	12	3	6	11	6	15
HM8469	5	3	11	2	3	16	7
K1126	4	10	10	15	13	11	10
Ky82-0881	10	16	9	12	4	5	3
Ky82-1482	14	15	12	13	2	2	2
LN83-2356	6	1	6	7	8	11	13
LN82-2366	2	8	7	1	15	11	16
LS80-6521	13	6	13	11	11	15	7
Md81-0953	7	9	5	4	7	14	5
S83-1004	11	13	14	14	13	4	5
S84-6484	12	11	15	5	10	6	11

UNIFORM TEST IV, 1987
MATURITY (date)

Strain	Mean 18 Tests	Belle-ville IL	Carbondale IL	Eldorado IL	Lafayette IN	Vincennes IN
Chamberlain III	-8.0	-10	-7	-9	-5	-10
Morgan (IV)	9-22.6	9-15	9-14	9-12	9-27	9-10
Ripley	-3.7	-5	-5	-8	-6	-10
Stafford	+13.4	+15	+10	+18	+13	+12
C1653	0.0	0	-1	-2	+2	-1
C1692	-2.2	-7	-1	-3	+1	-3
HM8469	-3.2	-5	-5	-2	-4	-2
K1126	-2.6	-3	-5	-3	-2	-2
Ky82-0881	+2.3	+	-1	+3	-1	+1
Ky82-1482	+1.2	0	-2	-1	-2	+1
LN83-2356	-2.8	-5	-5	-6	+2	-4
LN82-2366	-4.2	-10	-1	-4	-2	-7
LS80-6521	+3.5	+5	-3	+5	+4	+4
Md81-0953	-1.3	+3	-5	+1	+2	-1
S83-1004	+2.1	+6	-5	+4	+1	+3
S84-6484	0.0	-1	-5	0	+1	-1
Date planted	5-17	5-9	5-6	5-14	5-4	5-8
Days to mature	129	129	131	121	146	125

LODGING (score)

Chamberlain III	1.7	1.5	1.3	1.8	2.8	2.3
Morgan (IV)	1.6	1.3	1.2	1.3	2.7	3.2
Ripley	1.2	1.0	1.0	1.2	1.2	1.0
Stafford	1.8	1.2	1.7	1.3	3.2	1.8
C1653	1.5	1.1	1.2	1.2	2.3	3.0
C1692	1.7	1.3	1.3	1.2	2.5	2.2
HM8469	1.4	1.3	1.0	1.2	2.3	2.0
K1126	1.4	1.2	1.0	1.2	2.3	1.7
Ky82-0881	1.6	1.5	1.3	1.2	2.2	2.7
Ky82-1482	1.5	1.4	1.7	1.6	1.8	2.0
LN83-2356	1.8	1.8	1.3	1.9	2.5	3.5
LN82-2366	1.7	1.2	1.0	1.5	2.8	3.3
LS80-6521	1.7	1.5	1.3	1.4	2.7	2.5
Md81-0953	1.8	1.8	1.3	1.3	3.0	3.5
S83-1004	1.7	1.8	1.3	1.3	2.2	3.2
S84-6484	1.5	1.3	1.3	1.2	2.0	2.7

UNIFORM TEST IV, 1987
MATURITY (date)

Strain	Man-hattan KS	Pow-hattan KS	Lexing-ton KY	Queens-town MD	Loam Portage-ville MO	Clay Portage-ville MO	Columbia MO
Chamberlain III	-5	--	-10	-13	-9	-8	-11
Morgan (IV)	9-27	--	9-6	10-6	9-16	9-24	9-7
Ripley	-5	--	-6	-6	-6	-1	-3
Stafford	Frost	--	+15	+17	+11	+7	+17
C1653	0	--	0	+2	-2	+1	-1
C1692	-2	--	-4	-5	-3	-2	-1
HM8469	-4	--	-1	-9	-5	-3	-1
K1126	0	--	0	-12	-5	-4	+1
Ky82-0881	0	--	+2	+5	-2	0	+6
Ky82-1482	+1	--	+2	+3	-3	-2	+3
LN83-2356	-3	--	0	-1	-4	-3	-7
LN82-2366	-1	--	-10	+1	-3	0	-8
LS80-6521	0	--	+5	+5	+3	+1	+5
Md81-0953	-3	--	-3	+2	+1	-1	-3
S83-1004	0	--	+5	-1	+3	-1	+7
S84-6484	-2	--	0	+1	-1	-3	+1
Date planted	5-26	--	5-11	6-1	5-9	5-29	4-29
Days to mature	124	--	118	127	130	118	133

LODGING (score)

Chamberlain III	1.0	1.0	2.0	2.3	2.0	2.0	1.0
Morgan (IV)	1.0	1.0	1.5	1.3	1.5	2.0	1.0
Ripley	1.0	1.0	2.3	1.3	1.0	1.0	1.0
Stafford	1.0	1.0	1.5	2.2	1.5	1.0	1.0
C1653	1.0	1.0	1.2	1.7	1.5	1.0	1.0
C1692	1.0	1.0	2.0	2.0	1.5	1.0	1.0
HM8469	1.0	1.0	1.5	2.0	1.0	1.0	1.0
K1126	1.0	1.0	1.5	2.0	1.0	1.0	1.0
Ky82-0881	1.0	1.0	1.7	2.0	1.5	1.0	1.0
Ky82-1482	1.0	1.0	1.7	2.2	1.5	1.0	1.0
LN83-2356	1.0	1.0	1.8	2.2	1.5	1.5	1.0
LN82-2366	1.0	1.0	1.7	2.2	1.5	1.5	1.0
LS80-6521	1.0	1.0	1.5	2.2	2.0	2.0	1.0
Md81-0953	1.0	1.0	1.7	2.2	2.0	1.0	1.0
S83-1004	1.0	1.0	1.7	2.3	2.0	1.5	1.0
S84-6484	1.0	1.0	1.8	2.2	1.5	1.0	1.0

UNIFORM TEST IV, 1987
MATURITY (date)

Strain	Lincoln NE	Adelphia NJ	Ripley OH	South Charleston OH	Landis-ville PA	Lubbock TX	Orange VA
Chamberlain III	-7	-2	-7	-13	-7	-8	-2
Morgan (IV)	10-15	10-19	9-1	9-24	10-9	9-21	10-3
Ripley	-4	-5	-5	-2	0	+3	+7
Stafford	+5	+13	+13	+21	+14	+15	+11
C1653	0	-1	-2	-4	0	-2	+10
C1692	-1	0	-8	-4	0	-6	+11
HM8469	-2	-3	-6	-3	0	-9	+6
K1126	-1	-5	-2	-5	0	-5	+5
Ky82-0881	0	+3	+5	+6	+3	+1	+8
Ky82-1482	+1	0	+2	+6	0	+2	+10
LN83-2356	-1	0	-5	-3	-4	-6	+7
LN82-2366	-4	-4	-12	-8	-4	-6	+7
LS80-6521	0	+8	+5	+8	+3	+1	+3
Md81-0953	0	-2	-5	-3	-4	-6	+3
S83-1004	0	+1	+2	+9	0	+5	-1
S84-6484	0	-1	+2	+1	0	-1	+8
Date planted	6-5	6-11	4-27	5-5	6-1	5-15	6-2
Days to mature	132	130	125	142	130	129	123

LODGING (score)

Chamberlain III	3.8	1.3	1.3	1.7	1.0	1.5	1.0
Morgan (IV)	3.7	1.7	1.1	1.5	1.0	1.5	1.0
Ripley	3.2	1.0	1.2	1.0	1.0	1.0	1.0
Stafford	4.2	3.3	2.3	1.3	2.0	1.2	1.3
C1653	3.3	1.7	1.1	1.0	1.3	1.5	1.0
C1692	4.3	2.7	1.1	1.2	1.0	1.3	1.0
HM8469	3.3	1.0	1.1	1.0	1.0	1.5	1.0
K1126	3.7	1.0	1.1	1.3	1.0	1.3	1.0
Ky82-0881	4.5	2.3	1.2	1.5	1.3	1.2	1.0
Ky82-1482	3.3	2.0	1.2	1.5	1.3	1.5	1.0
LN83-2356	3.5	2.7	1.3	1.2	1.0	1.5	1.0
LN82-2366	4.5	1.0	1.1	1.5	1.0	1.5	1.0
LS80-6521	3.7	2.0	1.3	1.2	1.7	1.5	1.0
Md81-0953	4.2	3.0	1.1	2.0	1.0	1.2	1.0
S83-1004	3.8	1.7	1.2	1.3	1.0	1.5	1.0
S84-6484	3.3	1.7	1.2	1.7	1.0	1.5	1.0

UNIFORM TEST IV, 1987
PLANT HEIGHT (inches)

Strain	Mean 19 Tests	Belle-ville IL	Carbondale IL	Eldorado IL	Lafayette IN	Vincennes IN
Chamberlain III	36	36	40	43	49	44
Morgan (IV)	37	43	44	45	48	44
Ripley	22	20	21	26	30	22
Stafford	34	34	35	36	43	32
C1653	36	38	42	44	51	42
C1692	35	34	39	43	48	40
HM8469	34	35	38	39	45	38
K1126	33	37	36	37	43	39
Ky82-0881	37	43	41	43	48	42
Ky82-1482	38	38	40	44	51	41
LN83-2356	34	36	36	40	47	39
LN82-2366	32	30	34	38	42	38
LS80-6521	38	43	45	47	51	46
Md81-0953	36	38	39	41	50	41
S83-1004	39	44	44	51	51	49
S84-6484	34	39	38	42	47	37

SEED QUALITY (score)

Chamberlain III	2.6	3.2	5.0	3.7	1.5	2.0
Morgan (IV)	1.9	2.2	3.0	2.5	1.5	1.5
Ripley	1.6	2.0	1.0	2.0	1.0	1.0
Stafford	1.8	1.5	2.0	2.0	1.0	1.0
C1653	2.5	2.3	4.0	2.8	2.0	1.5
C1692	2.3	2.3	3.0	2.5	2.5	1.5
HM8469	1.7	2.0	2.0	2.3	1.5	1.0
K1126	1.7	1.8	2.0	2.2	1.5	1.5
Ky82-0881	2.0	2.0	2.0	2.5	1.5	1.5
Ky82-1482	1.8	1.8	2.0	2.0	1.5	1.0
LN83-2356	1.9	2.3	2.0	2.5	1.5	1.0
LN82-2366	1.9	1.8	2.0	2.0	2.0	1.5
LS80-6521	1.7	1.7	2.0	2.0	1.0	1.0
Md81-0953	1.9	2.0	2.0	2.3	1.5	1.5
S83-1004	1.6	1.5	2.0	2.0	1.0	1.0
S84-6484	1.9	2.0	2.0	2.7	1.5	1.5

UNIFORM TEST IV, 1987
PLANT HEIGHT (inches)

Strain	Manhattan KS	Powhattan KS	Lexington KY	Queenstown MD	Loam Portageville MO	Clay Portageville MO	Columbia MO
Chamberlain III	37	31	35	28	40	32	33
Morgan (IV)	38	32	36	28	42	33	32
Ripley	22	20	28	19	20	17	15
Stafford	36	32	38	27	37	23	31
C1653	39	30	31	28	43	31	31
C1692	35	32	35	25	43	28	32
HM8469	36	32	31	27	38	29	30
K1126	36	27	33	25	37	27	31
Ky82-0881	39	33	34	31	43	32	33
Ky82-1482	38	33	40	30	43	31	32
LN83-2356	35	31	35	26	39	29	34
LN82-2366	35	30	30	24	38	25	31
LS80-6521	38	35	37	33	43	34	35
Md81-0953	37	32	36	25	43	28	35
S83-1004	42	34	40	31	46	31	36
S84-6484	37	31	33	26	41	30	30

SEED QUALITY (score)

Strain	Manhattan KS	Powhattan KS	Lexington KY	Queenstown MD	Loam Portageville MO	Clay Portageville MO	Columbia MO
Chamberlain III	1.0	3.0	2.0	2.3	3.5	3.5	--
Morgan (IV)	1.0	2.0	2.0	1.5	3.0	2.0	--
Ripley	2.0	2.0	1.0	1.7	1.5	2.0	--
Stafford	1.0	2.0	2.0	1.0	1.0	2.0	--
C1653	3.0	5.0	1.0	3.0	3.5	3.0	--
C1692	3.0	3.0	2.0	1.2	2.5	3.0	--
HM8469	1.0	2.0	1.0	1.0	2.0	2.0	--
K1126	1.0	2.0	1.0	1.0	2.0	1.5	--
Ky82-0881	2.0	2.0	2.0	1.7	3.0	3.5	--
Ky82-1482	2.0	2.0	1.0	1.2	1.5	2.0	--
LN83-2356	2.0	2.0	2.0	1.0	2.5	2.0	--
LN82-2366	1.0	2.0	2.0	1.3	2.5	2.5	--
LS80-6521	1.0	2.0	2.0	1.0	2.5	2.0	--
Md81-0953	1.0	2.0	1.0	1.2	3.0	2.5	--
S83-1004	1.0	2.0	1.0	1.0	1.5	2.0	--
S84-6484	1.0	2.0	2.0	1.7	2.5	2.5	--

UNIFORM TEST IV, 1987

PLANT HEIGHT (inches)

Strain	Lincoln NE	Adelphia NJ	Ripley OH	South Charleston OH	Landis-ville PA	Lubbock TX	Orange VA
Chamberlain III	44	34	29	37	32	27	26
Morgan (IV)	46	35	30	43	32	26	25
Ripley	30	25	24	29	25	14	19
Stafford	44	36	34	40	35	22	27
C1653	46	35	29	40	31	27	25
C1692	45	34	29	34	32	25	26
HM8469	44	31	30	36	28	24	27
K1126	44	32	28	33	28	25	24
Ky82-0881	43	35	32	43	34	26	28
Ky82-1482	48	37	34	46	34	29	27
LN83-2356	44	35	30	37	30	24	26
LN82-2366	42	31	27	32	26	21	24
LS80-6521	45	37	30	42	33	26	28
Md81-0953	46	35	30	39	33	26	24
S83-1004	49	36	30	41	33	29	29
S84-6484	42	34	27	37	30	24	25

SEED QUALITY (score)

Chamberlain III	2.2	1.0	3.3	2.2	2.5	2.0	3.2
Morgan (IV)	2.3	1.0	1.2	2.0	2.0	1.5	1.8
Ripley	1.8	1.0	1.3	1.2	2.0	2.0	1.8
Stafford	4.7	1.3	1.8	2.0	2.0	1.7	1.5
C1653	2.7	1.0	2.0	1.5	2.5	2.0	2.8
C1692	2.3	1.0	1.8	2.0	2.5	1.5	3.8
HM8469	2.0	1.0	1.3	1.3	2.3	1.5	2.5
K1126	2.0	1.0	1.2	1.6	2.0	1.5	2.3
Ky82-0881	2.5	1.0	1.4	1.8	2.5	2.0	2.0
Ky82-1482	2.5	1.0	1.1	2.4	2.5	1.2	2.3
LN83-2356	2.7	1.0	1.3	1.8	2.0	1.5	2.3
LN82-2366	2.2	1.0	1.7	2.2	2.8	1.5	3.3
LS80-6521	2.7	1.0	1.4	1.2	2.5	1.5	1.8
Md81-0953	2.5	1.0	1.4	1.9	2.3	1.7	2.2
S83-1004	2.8	1.0	1.1	1.5	2.3	1.1	1.8
S84-6484	2.5	1.0	1.2	1.6	2.2	1.3	1.8

UNIFORM TEST IV, 1987
SEED SIZE (g/100)

Strain	Mean 17 Tests	Belle-ville IL	Carbondale IL	Eldorado IL	Lafayette IN	Vincennes IN
Chamberlain III	16.3	11.6	15.6	11.6	15.0	15.6
Morgan (IV)	15.8	13.9	15.0	11.6	15.8	17.0
Ripley	12.8	9.5	12.2	9.1	12.8	11.5
Stafford	12.4	9.8	11.5	9.7	11.7	11.2
C1653	15.7	13.0	15.5	10.2	15.3	13.8
C1692	16.9	12.6	15.0	12.8	15.5	17.4
HM8469	13.2	11.1	11.4	9.7	12.1	13.8
K1126	13.3	9.9	11.8	9.7	12.7	13.6
Ky82-0881	13.8	10.8	12.4	10.3	13.4	12.8
Ky82-1482	14.0	11.6	12.9	10.0	14.3	14.3
LN83-2356	17.7	15.0	16.1	12.8	17.5	17.4
LN82-2366	15.7	12.3	16.0	12.7	15.5	16.9
LS80-6521	14.4	12.0	13.2	10.5	14.2	14.0
Md81-0953	14.0	11.9	12.6	10.0	13.7	13.8
S83-1004	12.1	9.4	11.2	9.2	12.7	12.0
S84-6484	16.5	12.4	14.9	11.4	17.3	15.2

UNIFORM TEST IV, 1987
SEED SIZE (g/100)

Strain	Man-hattan KS	Pow-hattan KS	Lexing-ton KY	Queens-town MD	Loam Portage-ville MO	Clay Portage-ville MO	Columbia MO
Chamberlain III	17.9	18.5	11.1	14.6	--	--	9.5
Morgan (IV)	14.0	15.3	10.7	16.6	--	--	12.7
Ripley	13.7	14.6	8.0	12.4	--	--	11.1
Stafford	11.9	13.0	9.6	17.0	--	--	11.7
C1653	15.4	15.3	10.2	16.5	--	--	11.1
C1692	19.1	18.0	12.5	16.2	--	--	13.9
HM8469	13.0	12.2	9.8	12.7	--	--	10.4
K1126	18.4	11.8	9.8	11.7	--	--	9.4
Ky82-0881	14.7	14.4	9.4	14.7	--	--	10.5
Ky82-1482	13.9	14.0	8.9	15.1	--	--	10.8
LN83-2356	17.3	19.3	13.1	17.0	--	--	12.5
LN82-2366	16.6	16.4	11.1	13.8	--	--	11.2
LS80-6521	13.0	12.3	10.3	15.7	--	--	11.2
Md81-0953	13.6	14.7	9.9	14.2	--	--	9.1
S83-1004	11.1	11.3	8.8	12.7	--	--	9.6
S84-6484	17.9	18.8	11.2	18.3	--	--	13.8

UNIFORM TEST IV, 1987
SEED SIZE (g/100)

Strain	Lincoln NE	Adelphia NJ	Ripley OH	South Charleston OH	Landis-ville PA	Lubbock TX	Orange VA
Chamberlain III	19.6	19.7	14.7	15.6	20.9	20.6	24.5
Morgan (IV)	18.1	16.7	13.6	15.7	21.0	18.3	21.8
Ripley	15.7	13.3	10.9	10.5	16.7	16.5	19.5
Stafford	9.0	12.7	11.1	12.1	16.3	15.1	17.8
C1653	19.7	16.3	13.9	15.3	23.4	20.4	21.5
C1692	19.6	16.3	14.4	15.7	23.3	21.1	23.4
HM8469	17.3	14.7	11.8	12.1	18.0	15.8	18.5
K1126	16.7	14.0	11.4	11.3	17.8	16.9	19.9
Ky82-0881	15.6	13.3	12.2	13.1	20.9	16.5	19.8
Ky82-1482	17.0	13.7	11.3	12.9	19.2	17.0	20.0
LN83-2356	21.1	21.0	15.4	16.6	23.5	20.8	24.1
LN82-2366	18.7	15.3	14.7	15.4	19.9	20.1	19.6
LS80-6521	16.7	17.7	11.9	12.7	20.9	17.0	21.0
Md81-0953	17.3	16.0	12.3	14.2	18.8	15.4	20.2
S83-1004	13.9	13.0	10.5	11.1	16.8	14.8	17.5
S84-6484	18.8	17.0	13.4	14.8	24.0	18.4	23.3

UNIFORM TEST IV, 1987
PROTEIN(%)

Strain	Mean 5 Tests	Eldorado IL	Manhattan KS	Lexington KY	Queenstown MD	Ripley OH
Chamberlain III	40.4	--	39.3	42.7	38.3	41.3
Morgan (IV)	42.1	42.0	41.0	42.8	42.0	42.8
Ripley	40.8	41.3	38.8	41.9	37.2	41.2
Stafford	41.2	--	37.5	45.9	37.1	44.3
C1653	39.7	41.4	37.2	42.5	36.9	40.5
C1692	41.1	41.4	39.8	42.5	40.3	41.5
HM8469	41.8	42.9	39.2	44.2	40.8	42.1
K1126	40.6	41.8	38.5	43.7	38.3	40.7
Ky82-0881	41.1	40.4	38.5	44.7	40.9	41.0
Ky82-1482	41.2	43.7	39.2	43.3	39.4	40.3
LN83-2356	42.5	44.1	41.4	43.3	40.1	43.5
LN82-2366	40.4	41.0	40.4	42.3	37.6	40.6
LS80-6521	40.7	39.2	37.7	44.7	41.3	40.6
Md81-0953	40.3	41.0	38.0	43.3	38.8	40.5
S83-1004	40.8	41.4	37.7	44.6	38.7	41.5
S84-6484	41.7	42.6	39.6	44.8	38.5	43.2

OIL (%)

Strain	Mean 5 Tests	Eldorado IL	Manhattan KS	Lexington KY	Queenstown MD	Ripley OH
Chamberlain III	20.8	--	21.5	18.1	22.6	20.8
Morgan (IV)	20.3	20.9	20.1	18.5	21.4	20.7
Ripley	21.4	22.4	21.4	19.1	23.4	20.5
Stafford	20.1	--	20.9	17.6	23.2	18.6
C1653	21.7	22.3	22.2	19.1	23.6	21.4
C1692	21.1	21.4	21.6	19.6	22.5	20.6
HM8469	20.4	20.0	21.6	18.9	21.1	20.5
K1126	20.2	20.3	21.1	17.8	22.0	20.0
Ky82-0881	19.5	20.4	20.4	16.7	20.6	19.5
Ky82-1482	20.4	19.2	21.1	18.1	22.9	20.8
LN83-2356	21.2	20.2	21.8	20.0	22.3	21.5
LN82-2366	21.8	21.9	22.1	20.2	23.0	21.8
LS80-6521	20.5	22.0	21.3	18.5	20.3	20.6
Md81-0953	21.2	21.4	21.5	19.6	21.5	22.2
S83-1004	20.3	21.0	20.5	17.4	22.2	20.3
S84-6484	20.6	20.4	21.8	18.4	23.0	19.4

PRELIMINARY TEST IV, 1987

Strain	Parentage	Generation Composited
Chamberlain (III)	A76-304020 X Land O'Lakes Max	F4
Morgan (IV)	Union X Miles	F5
Pyramid	Franklin X J74-5	F4
C1723	HW79015 X Sparks	F5
HC83-4219	Amcor X L70T-543G	F5
HS84-3741	Asgrow A3127 X S Brand S48	F5
K1144	K1062 X S76-2203	F5
K1145	Essex X Cumberland	F5
K1146	Essex X K1062	F5
K1147	Essex X Cumberland	F5
K1148	Essex X Cumberland	F5
K1149	Forrest X Cumberland	F5
Ky84-0215	L73-318 X K1046	F5
Ky84-0405	VS75-595 X Cumberland	F5
L83-3804	L78-8694 X L78L-449	F6
L83-3933	L78-8694 X L78L-688	F6
LN84-452	A78-227015 X Asgrow A3127	F5
LN84-3945	HW79149 X Harper	F5
LN84-4037	HW79149 X Harper	F5
LN84-4082	HW79149 X Harper	F5
LN84-8563	Hack X Harper	F5
LN84-9583	Hack X Cumberland	F5
LN84-11018	Williams 82 X LN80-8309	F5
LN84-13426	Northrup King S1492 X Harper	F5
LN84-21610	Hack X Asgrow A3127	F5
LS80-W6863	L73-6536 X Pixie	F6
LS82-A3510	L73-6536 X Pixie	F5
LS82-B2745	L73-6536 X Mitchell	F5
LS82-E1804	Franklin X Williams	F5
LS82-E3079	Mack X Crawford	F5
Md84-0502	BSR 301 X Essex	F5
S84-6095	Douglas X PI 88.788	F6
S85-1084	(Williams X PI 88.788) X (Union X Douglas)	F6
S85-1345	Douglas (2) X Fayette	F6
S85-11561	L77-443 (2) X (Williams X PI209.332)	F6
Ripley (IV dt)	Hodgson X V68-1034	F5
HC80-1224	Ransom X Union	F5
HC81-3983	Williams X Sprite	F5
HC82-5265	L72U2567 X Essex	F5
HC82-6611-1	Essex X Sprite	F5
HC83-4053	HC76-4030 X Pixie	F5
HC84-280-1a	Hobbit X Ransom	F5
HC84-923-1	M70-153 X Sprite	F5
HC84-2514	Sprite X Ransom	F5
HC84-2594-x	Asgrow A3127 X Bedford	F5
V84-579	Will X Md71-583	F5

PRELIMINARY TEST IV, 1987
DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code		Shattering Score Eldor.	Shattering Score Manhatt.	Mottle Score Eldor.	PR Vickery Tolerance Score	PS Lafayette a %	PSB Lafayette n %	SMV Lafayette a Score
Chamberlain (III)	PTBSYBl	I	3.0	3	3.0	4.4	12	16	5E
Morgan (IV)	WTTDYBl	I	1.5	2	2.5	5.2	35	18	5E
Pyramid	PGTSYIb	I	1.0	2	3.0	5.2	21	22	4E
C1723	PTBDYBl	I	2.0	2	1.5	4.2	29	36	5E
HC83-4219	WGBSYBf	I	1.5	3	2.5	4.0	54	30	5E
HS84-3741	PTBDYBl+Br	I	1.0	1	2.0	6.0	36	32	5E
K1144	WTBDYBl	I	1.0	2	2.0	4.8	21	0	5E
K1145	PGBDYIb	I	1.0	1	1.5	5.0	18	6	5E
K1146	WTTDYBl	I	1.0	2	1.5	4.6	9	12	4M
K1147	PGBSYBf	I	1.5	2	1.0	5.0	26	16	4M
K1148	PGBDYIb	I	1.0	1	1.5	4.8	47	12	3M
K1149	WGBSYIb	I	1.0	2	2.0	5.6	45	10	4M
Ky84-0215	WTBSYY	I	1.0	2	3.0	5.0	12	12	5M
Ky84-0405	WTBSYBl	I	1.0	2	2.5	5.2	6	2	5E
L83-3804	PTBDYBl	D	1.0	1	3.5	5.8	0	0	-
L83-3933	PTBDYBr	D	1.0	1	2.5	7.0	0	2	5E
LN84-452	WGTDYBf	I	1.0	1	1.0	5.8	16	14	3M
LN84-3945	WTBSYBr	I	2.0	3	3.0	4.4	29	24	5E
LN84-4037	PGBSYBf	I	2.0	2	1.5	3.2	28	12	5E
LN84-4082	PGBSYIb	I	2.5	1	2.0	4.2	23	34	5E
LN84-8563	WTBSYBl	I	2.5	2	2.5	6.2	7	50	5E
LN84-9583	PGBDYIb	I	1.0	1	1.5	3.4	13	20	5M
LN84-11018	WTTDYBl	I	1.5	2	2.5	7.0	17	28	5E
LN84-13426	WTTSYBf	I	2.5	2	1.5	5.8	14	16	3M
LN84-21610	PTTDYIb	I	3.5	2	2.5	4.0	20	30	5M
LS80-W6863	PTBSYBl	I	1.0	2	2.0	4.6	10	4	4E
LS82-A3510	PTBSYBl	I	1.0	1	1.5	4.4	5	4	2M
LS82-B2745	PTTSYBl	I	1.0	2	3.0	5.4	12	14	5E
LS82-E1804	PTBDYBl	I	1.0	2	1.5	4.8	12	30	5E
LS82-E3079	PTTSYBl	I	1.0	2	1.5	3.6	2	22	5E
Md84-0502	PTTDYBr	I	1.5	2	3.0	5.8	26	32	4E
S84-6095	WTBDYBr	I	1.0	2	1.5	4.6	8	34	5E
S85-1084	WTTSYBl	I	1.0	1	1.0	3.0	24	20	4E
S85-1345	WTBDYBl	I	1.0	2	1.5	5.0	10	14	5E
S85-11561	WTBDYBl	I	1.5	1	2.0	4.8	12	24	3M
Ripley (IV dt)	PGTSYBf	D	2.0	1	1.5	3.0	3	4	4M
HC80-1224	WTTSYBl	D	1.0	1	2.0	4.4	2	8	-
HC81-3983	WTTSYBl	D	1.0	1	2.0	3.0	5	12	3E
HC82-5265	PTTDYBr	D	2.0	2	1.5	3.8	0	0	1
HC82-6611-1	WTTDYBl	D	1.5	1	2.0	2.8	6	4	3E
HC83-4053	PTTDYBl	D	1.0	1	1.5	4.6	2	0	2M
HC84-280-1a	PTTDYBl	D	1.0	1	1.5	3.8	1	4	3E
HC84-923-1	PTTSYBr	D	1.5	1	2.5	4.4	6	12	4E
HC84-2514	WTTSYBl	D	1.0	1	2.5	3.2	2	4	3E
HC84-2594-x	PTTDYBl	D	1.0	1	3.0	3.6	0	2	4E

PRELIMINARY TEST IV, 1987
Regional Summary

Strain No. of Tests	Yield 7 bu/a	Rank 7 No.	Maturity 8 Date	Lodging 8 Score	Plant Height 8 In.	Seed Quality 8 Score	Seed Size 8 g/100	Composition Protein 5 %	 Oil 5 %
Chamberlain (III)	35.4	35	-9.8	1.9	38	2.6	15.2	41.3	20.1
Morgan (IV)	40.9	9	9-17.1*	1.6	38	1.9	14.7	41.9	19.8
Pyramid	34.7	38	+3.4	1.9	43	1.9	12.9	40.4	19.4
C1723	39.9	14	-5.0	1.6	40	2.2	13.9	40.5	20.7
HC83-4219	36.3	28	-3.4	2.5	43	2.9	14.8	40.1	21.3
HS84-3741	40.1	13	-2.5	1.4	36	2.7	13.7	41.7	19.6
K1144	42.3	6	-0.8	1.6	40	2.0	13.2	40.7	19.6
K1145	41.3	7	0.0	1.4	33	1.9	13.6	41.8	20.4
K1146	43.5	3	+2.6	1.7	37	2.4	13.9	40.9	20.6
K1147	35.9	30	-2.5	2.6	40	2.0	12.7	41.7	20.1
K1148	44.2	1	+2.5	1.9	40	2.0	13.3	41.5	20.4
K1149	39.5	18	+1.1	2.3	45	1.8	13.1	40.1	21.8
Ky84-0215	40.3	12	+5.0	1.9	45	2.2	15.3	41.4	20.2
Ky84-0405	39.9	14	+2.9	1.8	42	1.5	13.6	41.5	20.8
L83-3804	38.9	20	+3.9	2.1	34	2.0	14.7	40.1	20.9
L83-3933	37.8	25	+9.5	1.5	29	2.4	16.2	40.9	20.5
LN84-452	43.4	4	-5.4	1.4	34	1.9	13.7	40.8	20.4
LN84-3945	36.8	26	-6.9	1.2	33	2.9	15.1	41.7	20.9
LN84-4037	44.1	2	-6.1	1.4	33	2.5	16.5	40.6	20.9
LN84-4082	40.9	9	-5.8	2.0	36	2.6	16.2	40.7	21.2
LN84-8563	38.8	21	-3.9	1.5	36	2.1	15.9	41.1	20.9
LN84-9583	41.1	8	-4.9	1.6	35	1.8	15.8	40.7	21.3
LN84-11018	39.9	14	-4.8	1.4	35	1.4	14.3	41.0	20.8
LN84-13426	39.6	17	-5.6	1.6	33	2.0	14.4	40.3	20.8
LN84-21610	38.1	23	-8.3	1.7	34	2.3	13.7	40.6	20.4
LS80-W6863	35.8	32	+3.8	1.7	44	1.8	13.3	40.7	21.1
LS82-A3510	36.0	29	+2.9	2.3	42	2.3	13.6	39.7	21.2
LS82-B2745	33.2	41	+3.6	2.4	42	2.3	12.7	39.9	20.2
LS82-E1804	32.0	42	+6.6	1.8	45	2.3	13.7	41.0	20.2
LS82-E3079	37.9	24	+6.4	2.0	41	1.4	13.2	41.3	20.6
Md84-0502	40.8	11	+2.4	1.8	42	2.4	13.0	41.8	20.1
S84-6095	30.2	45	+13.4	3.1	42	3.1	14.2	42.5	18.7
S85-1084	39.4	19	+2.0	1.8	41	2.2	14.8	41.3	20.7
S85-1345	35.1	36	+9.0	2.2	43	3.3	17.6	42.0	20.3
S85-11561	35.1	36	+9.4	2.5	44	3.0	14.9	42.6	19.3
Ripley (IV dt)	42.5	5	-6.8	1.4	24	1.3	11.5	39.8	21.3
HC80-1224	34.5	39	-5.8	1.1	20	1.7	14.7	41.8	21.4
HC81-3983	38.7	22	-7.1	1.2	19	1.9	17.3	41.1	21.5
HC82-5265	36.7	27	-8.3	1.3	22	2.0	13.1	42.8	20.9
HC82-6611-1	35.8	32	-4.3	1.2	19	1.6	12.2	41.4	20.0
HC83-4053	35.6	34	-8.0	1.2	19	1.6	13.6	44.0	19.9
HC84-280-1a	31.2	43	-7.6	1.1	18	1.5	11.7	41.2	20.4
HC84-923-1	30.0	46	-5.5	1.3	17	2.4	14.3	41.5	21.1
HC84-2514	34.1	40	-2.1	1.1	19	1.9	15.0	41.1	21.8
HC84-2594-x	30.7	44	-3.9	1.1	19	1.5	11.1	41.4	19.9
V84-579	35.9	30	-0.1	1.6	23	1.7	12.4	40.9	19.7

* 129 days after planting.

PRELIMINARY TEST IV, 1987
Yield (bu/a)

Strain	Mean 7 Tests	Carbondale IL	Eldorado IL	Vincennes* IN
Chamberlain (III)	35.4	29.8	35.8	30.9
Morgan (IV)	40.9	34.5	43.6	49.1
Pyramid	34.7	34.8	39.8	53.0
C1723	39.9	39.2	41.8	38.8
HC83-4219	36.3	23.8	39.7	40.6
HS84-3741	40.1	39.8	41.7	49.1
K1144	42.3	45.1	41.4	59.7
K1145	41.3	33.5	47.5	53.5
K1146	43.5	38.7	44.0	56.5
K1147	35.9	40.2	46.2	51.4
K1148	44.2	44.9	47.4	49.4
K1149	39.5	35.2	38.8	55.4
Ky84-0215	40.3	37.9	47.3	57.8
Ky84-0405	39.9	37.4	41.2	50.5
L83-3804	38.9	38.2	41.1	48.2
L83-3933	37.8	39.3	43.3	45.2
LN84-452	43.4	40.0	50.4	57.8
LN84-3945	36.8	33.1	34.6	34.4
LN84-4037	44.1	47.1	45.4	52.9
LN84-4082	40.9	35.4	47.7	43.6
LN84-8563	38.8	40.2	37.8	55.0
LN84-9583	41.1	33.4	45.3	52.7
LN84-11018	39.9	38.4	39.3	47.9
LN84-13426	39.6	38.7	31.7	60.0
LN84-21610	38.1	31.4	35.9	25.8
LS80-W6863	35.8	39.1	39.0	68.8
LS82-A3510	36.0	38.1	46.4	51.6
LS82-B2745	33.2	33.0	40.6	45.7
LS82-E1804	32.0	27.4	41.1	60.3
LS82-E3079	37.9	35.3	44.4	53.6
Md84-0502	40.8	35.6	46.7	58.6
S84-6095	30.2	28.5	44.7	48.9
S85-1084	39.4	32.7	44.6	52.4
S85-1345	35.1	36.0	49.4	49.8
S85-11561	35.1	34.2	42.6	57.1
Ripley (IV dt)	42.5	42.5	46.5	44.9
HC80-1224	34.5	37.8	36.9	31.8
HC81-3983	38.7	35.8	44.1	53.5
HC82-5265	36.7	35.3	33.0	43.0
HC82-6611-1	35.8	32.9	37.5	48.3
HC83-4053	35.6	34.0	36.6	43.6
HC84-280-1a	31.2	28.4	30.3	27.2
HC84-923-1	30.0	25.2	17.9	10.3
HC84-2514	34.1	37.0	29.6	38.7
HC84-2594-x	30.7	30.0	31.9	18.8
V84-579	35.9	39.5	33.9	40.5
C.V. (%)		13.0	10.8	24.8
L.S.D. (5%)		9.1	8.8	23.7
Row sp. (in.)		30	30	15
Rows/plot		4	4	5
Reps		2	2	2

*Not Included in the Mean

PRELIMINARY TEST IV, 1987
Yield (bu/a)

Strain	Manhattan KS	Lexington KY	Queenstown MD	Ripley OH	S.Charleston OH
Chamberlain (III)	37.3	25.9	24.8	31.5	63.0
Morgan (IV)	47.9	26.2	35.8	34.3	63.9
Pyramid	42.6	18.9	37.1	20.1	49.9
C1723	44.0	23.6	32.2	34.0	64.3
HC83-4219	40.7	25.2	32.4	31.8	60.6
HS84-3741	51.3	25.9	29.0	33.4	59.3
K1144	50.3	24.0	41.6	31.3	62.6
K1145	46.5	25.4	42.7	31.9	61.3
K1146	55.2	21.8	43.6	32.7	68.2
K1147	50.8	25.1	36.1	36.5	61.4
K1148	50.3	26.4	45.4	32.1	63.1
K1149	45.5	23.1	39.4	28.8	65.4
Ky84-0215	48.4	24.6	35.6	30.2	58.4
Ky84-0405	53.2	22.0	38.1	28.9	58.5
L83-3804	49.9	20.8	34.4	27.2	60.9
L83-3933	53.7	16.0	35.2	19.9	57.1
LN84-452	50.8	26.0	35.4	32.4	68.6
LN84-3945	48.4	23.3	31.2	29.6	57.1
LN84-4037	53.2	30.2	37.9	35.2	59.7
LN84-4082	46.9	24.5	35.0	34.2	62.8
LN84-8563	51.3	24.5	30.9	29.0	58.2
LN84-9583	46.9	27.1	37.7	32.9	64.6
LN84-11018	44.0	26.0	31.3	35.6	65.0
LN84-13426	42.6	30.1	32.8	40.6	60.6
LN84-21610	43.6	27.5	30.6	36.6	61.0
LS80-W6863	41.6	22.9	27.8	30.3	49.7
LS82-A3510	42.1	21.4	28.7	25.0	50.2
LS82-B2745	44.5	17.6	28.1	23.6	45.2
LS82-E1804	40.2	17.4	27.4	24.2	46.1
LS82-E3079	40.2	18.9	39.4	29.0	58.3
Md84-0502	48.9	25.6	35.8	29.5	63.5
S84-6095	35.8	15.2	28.6	15.6	42.8
S85-1084	46.9	20.2	38.1	29.3	63.7
S85-1345	46.0	13.7	30.0	19.7	50.8
S85-11561	43.6	20.1	34.2	25.3	45.8
Ripley (IV dt)	45.0	24.9	37.9	35.4	65.5
HC80-1224	20.3	25.2	30.4	38.5	52.7
HC81-3983	33.4	25.2	38.4	41.0	53.0
HC82-5265	32.4	24.4	38.3	39.7	53.5
HC82-6611-1	28.6	22.0	36.1	36.3	57.2
HC83-4053	31.5	23.9	31.0	40.9	51.2
HC84-280-1a	23.2	22.7	34.4	33.7	45.9
HC84-923-1	14.5	26.0	32.3	41.3	52.7
HC84-2514	19.4	24.2	34.5	39.7	54.6
HC84-2594-x	13.6	22.3	32.0	34.5	50.3
V84-579	49.4	14.8	33.5	26.5	53.9
C.V. (%)	13.0	7.7	13.4	11.1	8.1
L.S.D. (5%)	11.1	3.4	9.3	7.1	9.4
Row sp. (in.)	30	30	30	28	30
Rows/plot	4	4	4	4	4
Reps	2	2	2	2	2

PRELIMINARY TEST IV, 1987
Yield Rank

Strain	Yield Rank	Carbondale IL	Eldorado IL	Vincennes IN
Chamberlain (III)	35	41	38	42
Morgan (IV)	9	30	18	24
Pyramid	38	29	28	15
C1723	14	11	21	38
HC83-4219	28	46	29	36
HS84-3741	13	8	22	24
K1144	6	2	23	4
K1145	7	33	4	13
K1146	3	13	17	9
K1147	30	5	10	20
K1148	1	3	5	23
K1149	18	28	32	10
Ky84-0215	12	18	6	6
Ky84-0405	14	20	24	21
L83-3804	20	16	25	28
L83-3933	25	10	19	31
LN84-452	4	7	1	6
LN84-3945	26	35	39	40
LN84-4037	2	1	11	16
LN84-4082	9	25	3	34
LN84-8563	21	5	33	11
LN84-9583	8	34	12	17
LN84-11018	14	15	30	29
LN84-13426	17	13	43	3
LN84-21610	23	39	37	44
LS80-W6863	32	12	31	1
LS82-A3510	29	17	9	19
LS82-B2745	41	36	27	30
LS82-E1804	42	44	25	2
LS82-E3079	24	26	15	12
Md84-0502	11	24	7	5
S84-6095	45	42	13	26
S85-1084	19	38	14	18
S85-1345	36	22	2	22
S85-11561	36	31	20	8
Ripley (IV dt)	5	4	8	32
HC80-1224	39	19	35	41
HC81-3983	22	23	16	13
HC82-5265	27	26	41	35
HC82-6611-1	32	37	34	27
HC83-4053	34	32	36	33
HC84-280-1a	43	43	44	43
HC84-923-1	26	45	46	46
HC84-2514	40	21	45	39
HC84-2594-x	44	40	42	45
V84-579	30	9	40	37

PRELIMINARY TEST IV, 1987
Yield Rank

Strain	Manhattan KS	Lexington KY	Queenstown MD	Ripley OH	S.Charleston OH
Chamberlain (III)	36	10	46	26	12
Morgan (IV)	16	6	17	15	8
Pyramid	29	39	14	43	40
C1723	25	26	31	17	7
HC83-4219	33	14	29	25	19
HS84-3741	5	10	40	19	22
K1144	9	24	4	27	14
K1145	20	13	3	24	16
K1146	1	34	2	21	2
K1147	7	17	15	9	15
K1148	9	5	1	23	11
K1149	22	28	5	36	4
Ky84-0215	14	19	19	29	24
Ky84-0405	3	32	9	35	23
L83-3804	11	36	24	37	18
L83-3933	2	45	21	44	28
LN84-452	7	7	20	22	1
LN84-3945	14	27	34	30	28
LN84-4037	3	1	11	13	21
LN84-4082	17	20	22	16	13
LN84-8563	5	20	36	33	26
LN84-9583	17	4	13	20	6
LN84-11018	25	7	33	11	5
LN84-13426	29	2	28	4	19
LN84-21610	27	3	37	8	17
LS80-W6863	32	29	44	28	41
LS82-A3510	31	35	41	40	39
LS82-B2745	24	41	43	42	45
LS82-E1804	34	42	45	41	42
LS82-E3079	34	39	5	33	25
Md84-0502	13	12	17	31	10
S84-6095	37	44	42	46	46
S85-1084	17	37	9	32	9
S85-1345	21	46	39	45	37
S85-11561	27	38	26	39	44
Ripley (IV dt)	23	18	11	12	3
HC80-1224	43	14	38	7	34
HC81-3983	38	14	7	2	33
HC82-5265	39	22	8	5	32
HC82-6611-1	41	32	15	10	27
HC83-4053	40	25	35	3	36
HC84-280-1a	42	30	24	18	43
HC84-923-1	45	7	30	1	34
HC84-2514	44	23	23	5	30
HC84-2594-x	46	31	32	14	38
V84-579	12	45	27	38	31

PRELIMINARY TEST IV, 1987

Maturity (Date)

Strain	Mean 8 Tests	Carbondale IL	Eldorado IL	Vincennes IN
Chamberlain (III)	-9.8	-8	-12	-10
Morgan (IV)	9-17.1	9-20	9-15	9-11
Pyramid	+3.4	-3	0	+4
C1723	-5.0	-8	-6	-3
HC83-4219	-3.4	-5	-8	-4
HS84-3741	-2.5	-6	-2	+1
K1144	-0.8	-6	-3	+1
K1145	0.0	+1	-4	-1
K1146	+2.6	+2	0	+3
K1147	-2.5	-4	-6	-2
K1148	+2.5	+2	-1	+1
K1149	+1.1	-8	-2	0
Ky84-0215	+5.0	-1	+1	+7
Ky84-0405	+2.9	-5	+1	+3
L83-3804	+3.9	-7	0	0
L83-3933	+9.5	+3	+7	+8
LN84-452	-5.4	-7	-7	-4
LN84-3945	-6.9	-5	-6	0
LN84-4037	-6.1	-5	-6	-2
LN84-4082	-5.8	-8	-7	-4
LN84-8563	-3.9	-6	-5	-2
LN84-9583	-4.9	-7	-7	-2
LN84-11018	-4.8	-8	-5	-4
LN84-13426	-5.6	-7	-9	-3
LN84-21610	-8.3	-7	-12	-6
LS80-W6863	+3.8	-6	+3	+7
LS82-A3510	+2.9	-6	+1	+4
LS82-B2745	+3.6	-8	0	+3
LS82-E1804	+6.6	-5	+3	+7
LS82-E3079	+6.4	-6	+3	+8
Md84-0502	+2.4	-1	-2	+1
S84-6095	+13.4	+3	+12	+15
S85-1084	+2.0	-4	-1	+2
S85-1345	+9.0	+1	+5	+14
S85-11561	+9.4	+2	+16	+4
Ripley (IV dt)	-6.8	-7	-9	-13
HC80-1224	-5.8	-7	-4	-8
HC81-3983	-7.1	-7	-6	-12
HC82-5265	-8.3	-8	-9	-11
HC82-6611-1	-4.3	-6	-3	-6
HC83-4053	-8.0	-8	-6	-5
HC84-280-1a	-7.6	-8	-6	-11
HC84-923-1	-5.5	-3	-5	-11
HC84-2514	-2.1	-6	0	-5
HC84-2594-x	-3.9	-7	-1	-4
V84-579	-0.1	-7	-1	-1
Date Planted	5-12	5-6	5-14	5-8
Days to Mature	128	137	124	126

PRELIMINARY TEST IV, 1987
Maturity (Date)

Strain	Manhattan KS	Lexington KY	Queenstown MD	Ripley OH	S.Charleston OH
Chamberlain (III)	-4	-10	-13	-9	-12
Morgan (IV)	9-26	9-8	10-2	8-31	9-26
Pyramid	+2	+3	+8	+8	+5
C1723	-3	-8	-2	-5	-5
HC83-4219	+1	-5	-2	-7	-7
HS84-3741	-1	0	-4	-3	-5
K1144	0	0	+2	-1	+1
K1145	0	0	+4	-5	+5
K1146	+2	0	+11	0	+3
K1147	0	-1	-1	-4	-2
K1148	+1	+2	+3	+5	+7
K1149	+2	+3	+4	+3	+7
Ky84-0215	+3	+3	+7	+7	+13
Ky84-0405	+2	+2	+7	+4	+9
L83-3804	+3	+3	+13	+6	+13
L83-3933	+6	+6	+18	+9	+19
LN84-452	-2	-6	-5	-6	-6
LN84-3945	-1	-6	-15	-6	-10
LN84-4037	+1	-7	-5	-9	-10
LN84-4082	+1	-10	-1	-9	-8
LN84-8563	+1	-5	-1	-6	-7
LN84-9583	-1	-5	-3	-5	-9
LN84-11018	-3	-3	-3	-6	-6
LN84-13426	0	-10	0	-7	-9
LN84-21610	-2	-12	-7	-11	-9
LS80-W6863	0	+2	+10	+2	+12
LS82-A3510	-1	+2	+10	+6	+7
LS82-B2745	+3	+3	+11	+6	+11
LS82-E1804	+7	+3	+13	+8	+17
LS82-E3079	+3	+6	+12	+11	+14
Md84-0502	+1	+1	+10	+2	+7
S84-6095	+9	+13	+22	+14	+19
S85-1084	+2	0	+7	+1	+9
S85-1345	+8	+3	+15	+7	+19
S85-11561	+10	+3	+15	+8	+17
Ripley (IV dt)	-2	-8	-6	-5	-4
HC80-1224	0	-8	-9	-4	-6
HC81-3983	-1	-12	-1	-11	-7
HC82-5265	-2	-10	-13	-6	-7
HC82-6611-1	+1	-8	0	-8	-4
HC83-4053	-3	-8	-15	-11	-8
HC84-280-1a	-4	-8	-12	-5	-7
HC84-923-1	+1	-8	-5	-6	-7
HC84-2514	+3	-5	+3	-4	-3
HC84-2594-x	-1	-3	-4	-6	-5
V84-579	+2	+3	+4	+2	-3
Date Planted	5-20	5-11	6-1	4-27	5-5
Days to Mature	129	120	123	126	144

PRELIMINARY TEST IV, 1987
Lodging (Score)

Strain	Mean 8 Tests	Carbondale IL	Eldorado IL	Vincennes IN
Chamberlain (III)	1.9	1.5	2.0	2.3
Morgan (IV)	1.6	1.0	1.9	2.3
Pyramid	1.9	1.5	2.2	2.5
C1723	1.6	1.5	1.7	2.0
HC83-4219	2.5	2.3	2.8	2.8
HS84-3741	1.4	1.0	1.3	1.8
K1144	1.6	1.0	1.3	2.5
K1145	1.4	1.3	1.3	1.5
K1146	1.7	1.3	1.4	1.8
K1147	2.6	2.3	3.5	4.0
K1148	1.9	1.8	2.1	3.0
K1149	2.3	2.3	2.5	3.0
Ky84-0215	1.9	2.0	1.8	2.0
Ky84-0405	1.8	1.5	1.9	2.8
L83-3804	2.1	1.8	2.0	1.0
L83-3933	1.5	1.0	1.2	2.5
LN84-452	1.4	1.0	1.4	1.5
LN84-3945	1.2	1.0	1.1	1.0
LN84-4037	1.4	1.0	1.2	1.3
LN84-4082	2.0	1.5	2.3	1.8
LN84-8563	1.5	1.0	1.4	3.0
LN84-9583	1.6	1.8	1.6	2.0
LN84-11018	1.4	1.0	1.1	1.3
LN84-13426	1.6	1.3	1.4	1.8
LN84-21610	1.7	1.0	1.8	1.8
LS80-W6863	1.7	2.0	1.5	2.3
LS82-A3510	2.3	2.0	3.5	3.5
LS82-B2745	2.4	3.0	2.9	2.5
LS82-E1804	1.8	1.8	2.1	2.3
LS82-E3079	2.0	3.0	1.7	2.8
Md84-0502	1.8	1.3	1.8	2.0
S84-6095	3.1	2.5	3.3	5.0
S85-1084	1.8	1.3	1.8	2.8
S85-1345	2.2	2.0	2.0	4.0
S85-11561	2.5	2.5	3.0	3.8
Ripley (IV dt)	1.4	1.0	1.2	1.0
HC80-1224	1.1	1.0	1.1	1.0
HC81-3983	1.2	1.0	1.2	1.0
HC82-5265	1.3	1.0	1.1	1.0
HC82-6611-1	1.2	1.0	1.1	1.0
HC83-4053	1.2	1.0	1.1	1.0
HC84-280-1a	1.1	1.0	1.1	1.0
HC84-923-1	1.3	1.0	1.0	1.0
HC84-2514	1.1	1.0	1.1	1.0
HC84-2594-x	1.1	1.0	1.0	1.0
V84-579	1.6	1.0	1.8	1.3

PRELIMINARY TEST IV, 1987
Lodging (Score)

Strain	Manhattan KS	Lexington KY	Queenstown MD	Ripley OH	S.Charleston OH
Chamberlain (III)	1.0	2.5	2.3	1.2	2.3
Morgan (IV)	1.0	1.5	2.0	1.1	2.0
Pyramid	1.5	1.5	2.5	1.5	1.8
C1723	1.0	1.3	1.8	1.2	2.0
HC83-4219	2.0	2.8	2.3	.1.6	3.0
HS84-3741	1.0	1.5	2.0	1.1	1.8
K1144	1.0	1.5	2.3	1.3	1.5
K1145	1.0	1.5	2.0	1.2	1.0
K1146	1.0	1.8	2.3	1.3	2.3
K1147	1.0	3.5	2.5	1.4	2.3
K1148	1.0	1.5	2.3	1.3	1.8
K1149	1.5	2.0	2.8	2.1	2.3
Ky84-0215	1.0	2.3	2.5	1.3	2.0
Ky84-0405	1.0	1.5	2.3	1.3	2.0
L83-3804	1.0	3.0	2.8	2.7	2.3
L83-3933	1.0	1.3	2.0	1.3	1.3
LN84-452	1.0	1.8	1.8	1.1	1.5
LN84-3945	1.0	1.5	1.5	1.1	1.5
LN84-4037	2.0	1.5	2.0	1.2	1.3
LN84-4082	1.5	2.0	2.3	1.3	3.3
LN84-8563	1.0	1.5	1.0	1.2	1.5
LN84-9583	1.0	1.5	2.3	1.2	1.5
LN84-11018	1.0	1.5	2.0	1.1	1.8
LN84-13426	1.5	1.5	2.0	1.1	1.8
LN84-21610	1.0	1.8	2.0	1.3	2.5
LS80-W6863	1.0	1.5	2.0	1.2	2.0
LS82-A3510	1.0	2.0	2.3	1.3	2.8
LS82-B2745	1.0	2.0	2.3	1.6	3.5
LS82-E1804	1.0	1.5	2.0	1.3	2.3
LS82-E3079	1.0	1.8	2.3	1.4	2.0
Md84-0502	1.0	3.0	2.0	1.2	1.8
S84-6095	1.5	2.5	3.8	2.4	3.5
S85-1084	1.0	1.5	2.3	1.3	2.5
S85-1345	1.0	1.5	2.3	1.4	3.0
S85-11561	1.5	1.5	2.5	2.0	3.3
Ripley (IV dt)	1.0	2.5	2.0	1.5	1.3
HC80-1224	1.0	1.5	1.0	1.0	1.0
HC81-3983	1.0	2.0	1.0	1.1	1.0
HC82-5265	1.0	2.0	1.5	1.1	1.3
HC82-6611-1	1.0	2.0	1.0	1.1	1.0
HC83-4053	1.0	1.8	2.0	1.0	1.0
HC84-280-1a	1.0	1.5	1.5	1.0	1.0
HC84-923-1	1.0	1.8	2.0	1.0	1.3
HC84-2514	1.0	1.5	1.0	1.1	1.0
HC84-2594-x	1.0	2.0	1.0	1.0	1.0
V84-579	1.0	1.5	2.3	1.3	2.5

PRELIMINARY TEST IV, 1987
Plant Height (Inches)

Strain	Mean 8 Tests	Carbondale IL	Eldorado IL	Vincennes IN
Chamberlain (III)	38	41	44	36
Morgan (IV)	38	42	46	41
Pyramid	43	45	51	44
C1723	40	40	50	35
HC83-4219	43	50	48	46
HS84-3741	36	38	42	38
K1144	40	43	45	41
K1145	33	38	39	36
K1146	37	37	40	39
K1147	40	41	42	38
K1148	40	43	44	40
K1149	45	48	51	48
Ky84-0215	45	49	49	45
Ky84-0405	42	45	45	43
L83-3804	34	32	43	27
L83-3933	29	35	30	20
LN84-452	34	37	40	32
LN84-3945	33	37	35	30
LN84-4037	33	38	36	33
LN84-4082	36	39	44	38
LN84-8563	36	37	41	38
LN84-9583	35	38	41	38
LN84-11018	35	39	37	37
LN84-13426	33	35	34	34
LN84-21610	34	37	37	36
LS80-W6863	44	44	48	51
LS82-A3510	42	43	47	44
LS82-B2745	42	45	50	40
LS82-E1804	45	45	52	53
LS82-E3079	41	42	46	46
Md84-0502	42	44	46	46
S84-6095	42	40	50	39
S85-1084	41	43	50	44
S85-1345	43	50	51	50
S85-11561	44	47	50	43
Ripley (IV dt)	24	24	26	17
HC80-1224	20	19	20	17
HC81-3983	19	19	23	18
HC82-5265	22	21	21	17
HC82-6611-1	19	14	20	16
HC83-4053	19	18	19	18
HC84-280-1a	18	15	19	15
HC84-923-1	17	16	15	17
HC84-2514	19	15	18	19
HC84-2594-x	19	19	18	14
V84-579	33	35	36	29

PRELIMINARY TEST IV, 1987
Plant Height (Inches)

Strain	Manhattan KS	Lexington KY	Queenstown MD	Ripley OH	S.Charleston OH
Chamberlain (III)	39	37	31	32	43
Morgan (IV)	35	38	33	36	33
Pyramid	39	38	40	43	42
C1723	38	37	38	35	45
HC83-4219	38	46	34	36	45
HS84-3741	35	36	28	33	39
K1144	43	35	36	32	43
K1145	33	29	31	26	35
K1146	37	34	30	35	41
K1147	38	40	36	37	45
K1148	37	40	38	37	41
K1149	40	47	44	34	47
Ky84-0215	44	40	45	40	50
Ky84-0405	46	37	42	34	44
L83-3804	31	36	31	34	39
L83-3933	29	28	23	32	36
LN84-452	35	27	28	29	41
LN84-3945	38	29	30	31	35
LN84-4037	33	34	30	26	32
LN84-4082	32	30	32	30	41
LN84-8563	37	35	28	28	40
LN84-9583	35	31	34	29	37
LN84-11018	33	31	31	30	39
LN84-13426	36	32	29	27	36
LN84-21610	36	34	26	32	37
LS80-W6863	45	40	36	36	48
LS82-A3510	45	36	38	37	45
LS82-B2745	50	38	36	34	46
LS82-E1804	47	40	34	38	50
LS82-E3079	42	33	37	33	46
Md84-0502	43	42	36	38	41
S84-6095	45	37	41	35	48
S85-1084	39	33	38	37	41
S85-1345	39	32	39	32	49
S85-11561	46	38	42	36	46
Ripley (IV dt)	21	30	19	26	27
HC80-1224	14	22	17	24	23
HC81-3983	15	22	16	19	21
HC82-5265	18	24	19	27	25
HC82-6611-1	15	21	15	24	24
HC83-4053	15	22	16	22	24
HC84-280-1a	15	23	14	21	21
HC84-923-1	13	20	17	19	22
HC84-2514	16	25	13	22	22
HC84-2594-x	12	24	16	27	24
V84-579	30	38	29	33	35

PRELIMINARY TEST IV, 1987
Seed Quality (Score)

Strain	Mean 8 Tests	Carbondale IL	Eldorado IL	Vincennes IN
Chamberlain (III)	2.6	3.0	3.3	2.0
Morgan (IV)	1.9	3.0	2.3	2.0
Pyramid	1.9	2.0	2.5	2.0
C1723	2.2	3.0	2.3	2.5
HC83-4219	2.9	5.0	3.3	3.0
HS84-3741	2.7	4.0	3.5	2.5
K1144	2.0	3.0	2.8	1.5
K1145	1.9	4.0	2.5	1.5
K1146	2.4	3.0	2.5	2.0
K1147	2.0	3.0	2.5	1.5
K1148	2.0	3.0	2.5	1.5
K1149	1.8	3.0	2.0	1.0
Ky84-0215	2.2	3.0	2.5	1.5
Ky84-0405	1.5	2.0	2.3	1.0
L83-3804	2.0	2.0	2.5	1.5
L83-3933	2.4	4.0	3.0	1.5
LN84-452	1.9	3.0	2.5	1.5
LN84-3945	2.9	4.0	3.0	3.0
LN84-4037	2.5	4.0	3.0	2.0
LN84-4082	2.6	4.0	2.8	3.0
LN84-8563	2.1	3.0	2.5	2.0
LN84-9583	1.8	3.0	2.8	2.0
LN84-11018	1.4	1.0	2.3	1.0
LN84-13426	2.0	2.0	2.8	1.5
LN84-21610	2.3	4.0	3.0	2.0
LS80-W6863	1.8	3.0	2.0	1.5
LS82-A3510	2.3	4.0	2.5	1.5
LS82-B2745	2.3	3.0	2.8	2.0
LS82-E1804	2.3	3.0	2.8	1.5
LS82-E3079	1.4	1.0	2.0	1.0
Md84-0502	2.4	5.0	2.8	1.5
S84-6095	3.1	4.0	3.0	3.0
S85-1084	2.2	3.0	2.5	2.0
S85-1345	3.3	5.0	3.3	4.0
S85-11561	3.0	4.0	2.8	2.5
Ripley (IV dt)	1.3	1.0	2.3	1.0
HC80-1224	1.7	2.0	2.0	2.0
HC81-3983	1.9	3.0	2.5	1.5
HC82-5265	2.0	3.0	2.5	1.5
HC82-6611-1	1.6	2.0	2.3	1.0
HC83-4053	1.6	3.0	2.0	1.0
HC84-280-1a	1.5	2.0	2.0	1.5
HC84-923-1	2.4	4.0	2.8	1.5
HC84-2514	1.9	2.0	2.3	1.5
HC84-2594-x	1.5	1.0	2.0	1.0
V84-579	1.7	1.0	2.5	1.0

PRELIMINARY TEST IV, 1987
Seed Quality (Score)

Strain	Manhattan KS	Lexington KY	Queenstown MD	Ripley OH	S.Charleston OH
Chamberlain (III)	2.0	3.0	2.0	3.5	2.3
Morgan (IV)	2.0	2.0	1.0	1.1	1.6
Pyramid	2.0	2.0	1.3	1.8	1.7
C1723	2.0	2.0	1.3	1.9	2.2
HC83-4219	3.0	2.0	2.0	3.0	1.7
HS84-3741	2.0	2.0	1.5	3.5	2.3
K1144	2.0	2.0	1.0	1.5	2.0
K1145	1.0	1.0	2.3	1.6	1.4
K1146	3.0	2.0	2.8	1.8	1.9
K1147	2.0	1.0	2.8	1.2	2.2
K1148	1.0	2.0	2.0	1.3	2.3
K1149	1.0	2.0	1.8	1.6	1.8
Ky84-0215	2.0	2.0	3.3	1.4	2.2
Ky84-0405	1.0	1.0	1.8	1.3	1.6
L83-3804	1.0	2.0	3.3	1.7	1.9
L83-3933	1.0	2.0	4.0	1.7	1.8
LN84-452	1.0	2.0	1.5	1.3	2.0
LN84-3945	3.0	2.0	2.8	2.7	2.3
LN84-4037	1.0	2.0	3.0	2.7	2.5
LN84-4082	2.0	1.0	3.0	2.5	2.2
LN84-8563	1.0	2.0	2.3	2.3	1.7
LN84-9583	1.0	1.0	1.8	1.3	1.5
LN84-11018	1.0	2.0	1.3	1.2	1.5
LN84-13426	2.0	2.0	2.0	1.8	1.6
LN84-21610	2.0	1.0	2.3	1.8	2.1
LS80-W6863	1.0	1.0	2.3	2.4	1.5
LS82-A3510	2.0	1.0	4.0	1.7	2.0
LS82-B2745	2.0	2.0	3.3	1.5	1.7
LS82-E1804	2.0	2.0	2.8	2.2	1.7
LS82-E3079	1.0	1.0	2.0	1.3	1.5
Md84-0502	2.0	1.0	3.5	1.1	2.0
S84-6095	2.0	3.0	4.0	3.2	2.3
S85-1084	2.0	2.0	3.3	1.2	1.7
S85-1345	3.0	2.0	4.0	2.5	2.2
S85-11561	2.0	3.0	3.8	3.8	1.8
Ripley (IV dt)	1.0	1.0	1.3	1.1	1.5
HC80-1224	1.0	2.0	1.8	1.1	1.9
HC81-3983	1.0	2.0	1.5	1.6	1.7
HC82-5265	2.0	2.0	1.8	1.3	1.8
HC82-6611-1	1.0	2.0	1.5	1.5	1.5
HC83-4053	1.0	2.0	1.3	1.3	1.4
HC84-280-1a	1.0	2.0	1.0	1.1	1.2
HC84-923-1	2.0	2.0	3.3	2.3	1.6
HC84-2514	2.0	1.0	3.3	1.8	1.5
HC84-2594-x	2.0	2.0	1.5	1.1	1.5
V84-579	2.0	1.0	3.0	1.4	1.7

PRELIMINARY TEST IV, 1987
Seed Size (g/100)

Strain	Mean 8 Tests	Carbondale IL	Eldorado IL	Vincennes IN
Chamberlain (III)	15.2	16.3	12.1	16.2
Morgan (IV)	14.7	16.3	13.1	15.6
Pyramid	12.9	12.9	10.9	13.3
C1723	13.9	14.9	11.1	15.2
HC83-4219	14.8	14.7	12.1	16.3
HS84-3741	13.7	14.1	11.5	14.6
K1144	13.2	13.7	10.8	13.8
K1145	13.6	14.2	11.1	13.6
K1146	13.9	14.4	11.3	15.3
K1147	12.7	13.1	9.8	13.7
K1148	13.3	14.0	11.1	12.9
K1149	13.1	13.6	9.8	13.5
Ky84-0215	15.3	15.3	12.0	15.4
Ky84-0405	13.6	13.9	10.1	14.8
L83-3804	14.7	14.6	11.5	16.0
L83-3933	16.2	15.0	13.2	15.2
LN84-452	13.7	14.3	11.1	15.4
LN84-3945	15.1	16.0	12.5	17.4
LN84-4037	16.5	17.6	14.1	17.3
LN84-4082	16.2	17.6	14.0	17.6
LN84-8563	15.9	16.5	12.0	17.4
LN84-9583	15.8	16.7	12.2	17.0
LN84-11018	14.3	15.3	10.9	15.7
LN84-13426	14.4	15.3	11.3	15.2
LN84-21610	13.7	14.7	10.5	13.7
LS80-W6863	13.3	13.7	10.8	14.7
LS82-A3510	13.6	13.7	12.4	14.8
LS82-B2745	12.7	12.7	9.4	13.7
LS82-E1804	13.7	13.4	10.4	14.7
LS82-E3079	13.2	12.6	11.5	13.8
Md84-0502	13.0	14.3	11.0	13.5
S84-6095	14.2	13.6	12.5	15.9
S85-1084	14.8	15.3	10.7	15.5
S85-1345	17.6	18.6	14.3	18.6
S85-11561	14.9	14.8	12.7	15.8
Ripley (IV dt)	11.5	12.5	9.0	12.4
HC80-1224	14.7	16.8	11.7	16.3
HC81-3983	17.3	17.6	14.3	17.8
HC82-5265	13.1	13.9	10.4	14.7
HC82-6611-1	12.2	13.3	9.5	13.1
HC83-4053	13.6	13.8	12.0	13.9
HC84-280-1a	11.7	12.7	9.1	12.2
HC84-923-1	14.3	17.2	12.9	14.5
HC84-2514	15.0	16.2	11.4	15.5
HC84-2594-x	11.1	11.8	9.2	12.3
V84-579	12.4	11.6	9.2	13.8

PRELIMINARY TEST IV, 1987
Seed Size (g/100)

Strain	Manhattan KS	Lexington KY	Queenstown MD	Ripley OH	S.Charleston OH
Chamberlain (III)	19.2	12.3	14.1	14.4	17.2
Morgan (IV)	18.2	11.0	14.1	13.2	16.1
Pyramid	14.9	10.2	15.7	12.3	13.0
C1723	17.7	10.8	13.8	14.0	13.9
HC83-4219	19.8	10.9	13.6	14.2	16.4
HS84-3741	16.4	11.1	14.1	14.0	13.9
K1144	15.8	9.8	16.0	11.7	14.2
K1145	19.4	9.9	14.2	12.6	13.6
K1146	17.0	10.3	15.8	12.5	14.7
K1147	17.8	9.0	12.7	11.5	13.8
K1148	17.1	10.4	15.1	12.2	13.8
K1149	17.9	10.0	13.0	11.9	15.3
Ky84-0215	19.1	11.6	18.0	14.5	16.8
Ky84-0405	16.5	10.2	15.9	12.0	15.1
L83-3804	18.6	10.3	18.4	13.0	15.3
L83-3933	19.4	13.7	21.5	14.1	17.4
LN84-452	17.7	10.9	13.4	11.7	15.3
LN84-3945	20.0	12.1	13.0	14.3	15.7
LN84-4037	20.6	13.1	16.0	15.9	17.0
LN84-4082	21.3	11.7	15.9	14.7	17.0
LN84-8563	20.8	13.0	16.2	14.0	17.0
LN84-9583	19.7	12.2	15.8	16.2	16.8
LN84-11018	17.9	12.2	13.8	13.8	14.8
LN84-13426	19.3	11.7	14.9	13.2	14.6
LN84-21610	17.8	11.4	13.5	13.3	14.9
LS80-W6863	15.1	11.3	14.4	12.6	13.8
LS82-A3510	15.6	10.9	15.5	12.7	13.5
LS82-B2745	14.6	10.7	15.9	11.4	13.2
LS82-E1804	16.1	10.3	18.4	11.7	14.3
LS82-E3079	15.4	10.1	16.8	12.1	13.5
Md84-0502	16.8	10.2	13.3	11.2	13.9
S84-6095	15.5	11.2	17.1	13.0	14.7
S85-1084	17.6	11.2	17.8	13.8	16.5
S85-1345	20.7	11.9	21.9	14.9	19.9
S85-11561	16.6	12.2	18.1	13.6	15.0
Ripley (IV dt)	15.0	8.8	11.7	11.2	11.6
HC80-1224	19.0	12.0	13.1	14.6	14.3
HC81-3983	23.8	13.7	16.7	17.5	17.2
HC82-5265	16.3	10.3	11.6	13.7	13.8
HC82-6611-1	16.5	8.7	11.6	12.4	12.7
HC83-4053	19.1	10.6	12.0	14.0	13.6
HC84-280-1a	14.4	9.3	11.7	11.8	12.7
HC84-923-1	15.4	11.8	13.5	14.0	15.4
HC84-2514	20.1	12.2	14.6	14.9	15.1
HC84-2594-x	14.1	7.9	11.0	11.8	10.9
V84-579	15.9	9.7	13.0	11.6	14.2

PRELIMINARY TEST IV, 1987

Protein

Strain	Mean 5 Tests	Eldorado IL	Manhattan KS	Lexington KY	Queenstown MD	Ripley OH
Chamberlain (III)	41.3	41.0	39.2	44.1	39.9	42.3
Morgan (IV)	41.9	42.5	41.1	43.6	40.6	41.6
Pyramid	40.4	40.2	39.0	42.3	38.5	42.2
C1723	40.5	41.8	39.6	42.3	39.1	39.5
HC83-4219	40.1	42.2	39.5	41.1	36.9	41.0
HS84-3741	41.7	42.1	41.2	43.6	40.6	40.8
K1144	40.7	40.8	38.0	43.7	39.1	42.1
K1145	41.8	42.4	41.5	43.3	40.5	41.1
K1146	40.9	42.4	38.3	41.4	38.7	43.6
K1147	41.7	43.0	39.2	43.6	39.9	42.8
K1148	41.5	42.2	40.9	42.7	39.1	42.6
K1149	40.1	40.2	37.6	43.8	38.7	40.4
Ky84-0215	41.4	41.3	39.6	42.5	40.5	43.3
Ky84-0405	41.5	42.4	38.7	43.5	39.7	43.1
L83-3804	40.1	41.5	38.1	40.8	39.3	41.0
L83-3933	40.9	41.3	36.7	43.2	40.7	42.6
LN84-452	40.8	42.5	39.8	41.3	38.8	41.7
LN84-3945	41.7	43.1	39.7	43.7	41.3	40.5
LN84-4037	40.6	42.9	38.5	43.0	39.7	38.8
LN84-4082	40.7	42.1	39.7	41.8	39.4	40.4
LN84-8563	41.1	42.1	37.9	44.2	40.2	40.9
LN84-9583	40.7	41.8	36.5	44.4	38.4	42.3
LN84-11018	41.0	42.8	38.8	43.8	38.8	40.6
LN84-13426	40.3	42.5	39.4	42.1	37.3	40.1
LN84-21610	40.6	42.3	39.0	41.9	38.8	41.1
LS80-W6863	40.7	39.5	39.0	43.1	39.8	42.0
LS82-A3510	39.7	38.6	37.2	43.3	38.8	40.8
LS82-B2745	39.9	40.3	35.8	42.5	39.3	41.5
LS82-E1804	41.0	40.5	38.1	43.0	40.7	42.7
LS82-E3079	41.3	42.0	38.6	44.6	39.9	41.6
Md84-0502	41.8	42.9	39.6	45.1	39.3	42.0
S84-6095	42.5	42.3	40.0	43.7	44.4	41.9
S85-1084	41.3	42.9	39.0	44.4	38.2	42.1
S85-1345	42.0	41.0	41.6	43.0	41.3	43.1
S85-11561	42.6	41.3	40.3	44.1	42.1	45.2
Ripley (IV dt)	39.8	40.9	39.1	43.3	36.8	39.1
HC80-1224	41.8	42.0	40.4	45.0	39.7	42.1
HC81-3983	41.1	41.1	39.3	44.5	38.5	42.3
HC82-5265	42.8	44.2	42.7	45.1	41.0	41.0
HC82-6611-1	41.4	42.5	38.7	44.7	40.8	40.1
HC83-4053	44.0	44.1	42.4	46.7	43.6	43.0
HC84-280-1a	41.2	42.1	39.5	43.6	38.5	42.1
HC84-923-1	41.5	42.6	41.0	44.8	38.5	40.5
HC84-2514	41.1	41.8	39.2	43.1	39.0	42.2
HC84-2594-x	41.4	41.8	40.3	43.6	39.8	41.3
V84-579	40.9	42.2	36.3	46.1	38.3	41.6

PRELIMINARY TEST IV, 1987

Oil

Strain	Mean 5 Tests	Eldorado IL	Manhattan KS	Lexington KY	Queenstown MD	Ripley OH
Chamberlain (III)	20.1	21.0	21.1	17.4	21.1	19.9
Morgan (IV)	19.8	20.6	20.2	17.5	20.9	19.9
Pyramid	19.4	20.4	19.5	18.2	20.4	18.6
C1723	20.7	21.0	20.9	18.6	21.5	21.6
HC83-4219	21.3	20.6	21.6	19.7	23.1	21.7
HS84-3741	19.6	20.5	20.2	17.0	21.1	19.4
K1144	19.6	20.0	20.4	17.5	21.2	18.8
K1145	20.4	20.3	20.4	18.5	21.2	21.4
K1146	20.6	20.5	21.8	18.9	22.1	19.7
K1147	20.1	19.5	21.2	18.8	20.7	20.5
K1148	20.4	20.8	21.5	18.4	21.8	19.6
K1149	21.8	22.5	22.5	19.6	23.7	20.6
Ky84-0215	20.2	20.8	19.8	19.7	20.8	19.7
Ky84-0405	20.8	21.3	21.8	18.1	22.5	20.1
L83-3804	20.9	22.2	19.9	21.0	21.5	19.7
L83-3933	20.5	21.1	21.5	19.8	20.6	19.4
LN84-452	20.4	20.4	20.9	19.1	21.8	19.6
LN84-394	20.9	21.5	21.4	18.7	20.8	22.0
LN84-4037	20.9	21.1	21.5	18.7	21.6	21.4
LN84-4082	21.2	21.4	21.4	19.8	22.5	20.8
LN84-8563	20.9	21.2	21.7	19.0	21.9	20.5
LN84-9583	21.3	21.0	23.0	18.1	22.6	21.7
LN84-11018	20.8	20.5	21.2	18.9	22.7	20.6
LN84-13426	20.8	20.2	20.8	18.9	22.5	21.4
LN84-21610	20.4	20.0	21.0	19.4	21.6	20.0
LS80-W6863	21.1	23.3	21.5	19.2	22.1	19.4
LS82-A3510	21.2	22.6	21.5	19.6	22.0	20.2
LS82-B2745	20.2	20.4	21.4	18.4	21.7	19.1
LS82-E1804	20.2	21.0	20.6	18.7	21.7	19.7
LS82-E3079	20.6	20.9	21.1	19.1	22.3	19.4
Md84-0502	20.1	20.2	20.9	17.8	22.3	19.1
S84-6095	18.7	19.6	19.4	17.9	18.0	18.8
S85-1084	20.7	20.4	21.5	18.3	23.0	20.1
S85-1345	20.3	21.3	20.5	19.3	21.2	19.2
S85-11561	19.3	20.5	20.4	17.5	20.6	17.3
Ripley (IV dt)	21.3	21.8	21.1	18.9	22.9	21.6
HC80-1224	21.4	21.7	21.8	19.6	22.5	21.3
HC81-3983	21.5	21.7	21.9	19.8	22.9	21.3
HC82-5265	20.9	20.8	21.5	18.9	21.6	21.8
HC82-6611-1	20.0	19.7	21.7	17.6	20.7	20.5
HC83-4053	19.9	20.6	21.0	17.5	20.1	20.3
HC84-280-1a	20.4	20.0	20.9	18.2	22.7	20.3
HC84-923-1	21.1	21.0	20.9	18.9	23.0	21.7
HC84-2514	21.8	21.7	22.9	19.8	23.4	21.0
HC84-2594-x	19.9	19.7	20.9	17.8	20.9	20.4
V84-579	19.7	18.9	21.3	17.4	21.4	19.3