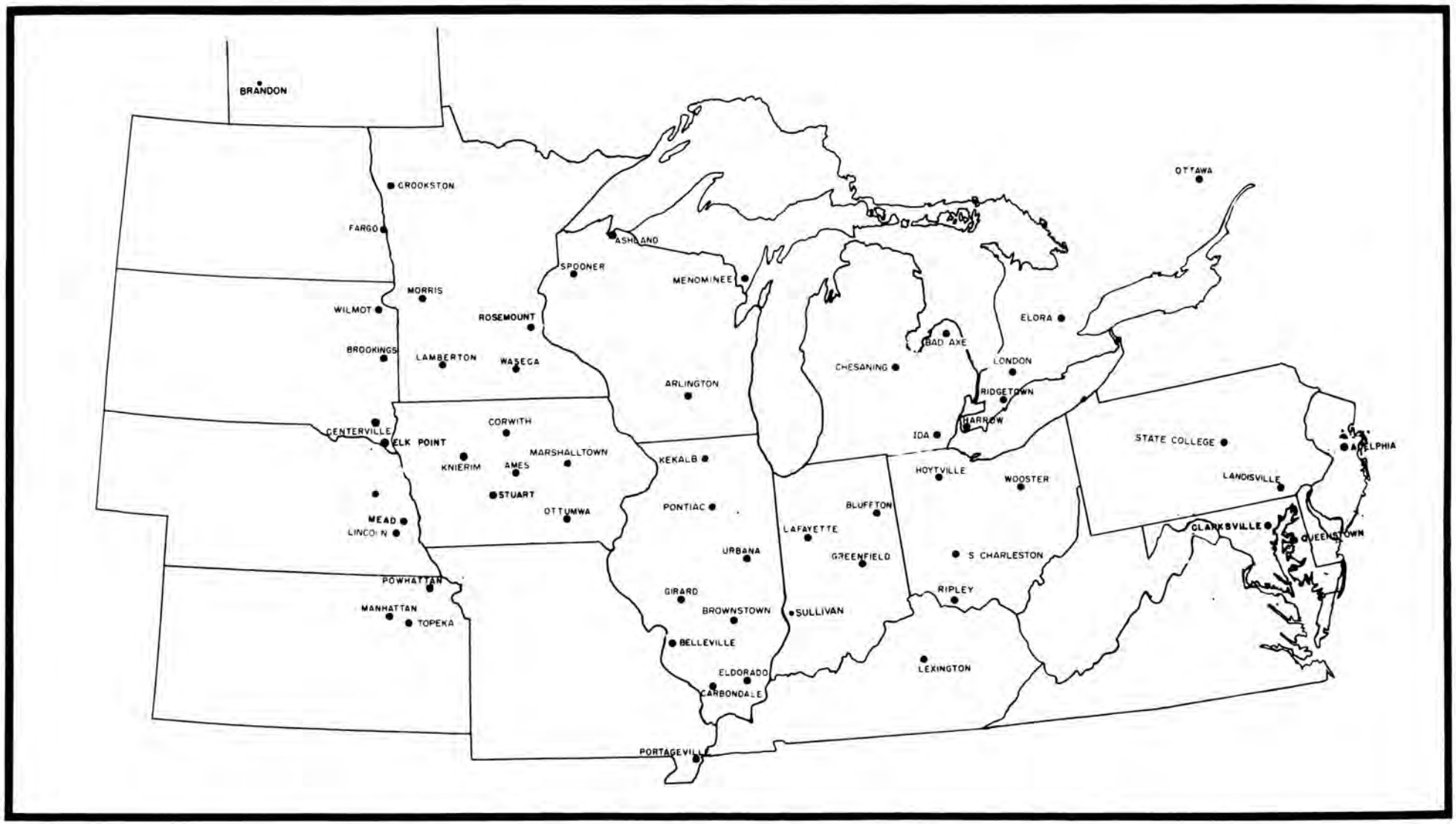

LOCATIONS OF UNIFORM SOYBEAN TESTS, NORTHERN STATES, 1983

THE UNIFORM SOYBEAN TESTS

NORTHERN STATES

1986

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ACKNOWLEDGEMENTS

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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 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 screen the experimental strains for maturity and general agronomic performance for one year before they are entered in the Uniform 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 or experimental lines entered in the uniform tests should not be sent to non-participants. 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 Statements or data in the report, therefore, should not be published unless permission has been obtained previously by those concerned.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 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)	Hodgson 78 (I)
I	Sibley	-4 to +4	Dawson (0)	Elgin (II)
II	Elgin	-3 to +5	Hardin (0)	Zane (III)
III	Harper	-4 to +4	Century 84 (II)	Morgan (IV)
IV	Morgan	-4 to +7	Chamberlain (III)	Douglas (IV)

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

Lodging is rated at maturity according to the following scores:

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

Height is the average length in inches of plants from the ground to the tip of the main stem at the time of maturity. (To convert to centimeters, multiply by 2.54).

Seed Quality is rated according to the following scores considering the amount and degree of wrinkling, defective seed coat (growth cracks), greenishness, and moldy or rotten seeds. (Threshing or handling damage is not considered, nor is mottling or other pigment).

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

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

Seed Composition is measured on sample submitted to the Laboratory. A 60 to 70-gram sample of clean seeds is prepared by taking an equal volume or weight of seeds 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 longation and was 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 ("d") delayed 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, FE2, 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 imbibe water.

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

POLICY ON TESTING AND RELEASE OF STRAINS

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

Development and release of soybean strains is carried out by many public institutions. The programs at these institutions operate independently until strains are available for advanced testing in the Uniform Soybean Tests. The Uniform Soybean Tests are coordinated by the Agricultural Research Service, U.S. Department of Agriculture. The tests are divided into those in the Northern States, for strains in maturity groups 00 to IV, and those in the Southern States, for strains in maturity groups 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 state's 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 1986

Variety	Experimental Designation	Uniform Test Evaluations
Chamberlain	LN80-8478	UT III 1984-1986, PT IV 1983, 1986, PT III 1986
Dassel	M75-25	UT O 1982-1985
Hoyt	HC78-523	UT II 1983-1986, PT IIB 1982, 1986
Morgan	Md79-5043	UT IV 1983-1986, PT IV 1982, 1986, UT III 1986, PT III 1986
Regal	C-Union BC	UT IV 1985
Sibley	M74-62	UT I 1982-1986, PT I 1981, 1986

Pella 86
Cartter

Variety	Release Date	Releasing States	Foundation Seed Production
Chamberlain	August 1, 1986	IL, IA, MD, MO, NE, OH	1986
Dassel	February, 14, 1986	MN	1985
Hoyt	October 1, 1986	OH	1986
Morgan	August 1, 1986	MD, NJ, VA, SD, and WI	1985
Regal	August 1, 1986	IN, MD, and MO	1985
Sibley	February 14, 1986	MI, MN, ND, SD, and WI	1985

UNIFORM TEST LOCATIONS 1986

Location		Conducted by	Uniform Tests						Preliminary Tests			
			00	0	I	II	III	IV	I	II	III	IV
IA	Ames	W.R. Fehr				X				X		
	Corwith	W.R. Fehr			X				X			
	Marshalltown	W.R. Fehr				X				X		
	Ottumwa	W.R. Fehr					X				X	
	Spencer	W.R. Fehr			X				X			
	Stuart	W.R. Fehr					X				X	
IL	Belleville	R.L. Bernard						X				
	Carbondale	O. Meyers, Jr.						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	
	Sullivan	J.R. Wilcox					X	X				X
KS	Manhatten	W.T. Schapaugh, Jr.					X	X			X	X
	Topeka	W.T. Schapaugh, Jr.						X			X	X
	Powhattan	W.T. Schapaugh, Jr.					X					
KY	Lexington	T. Pfeiffer					X	X				X
MAN	Brandon	L. Bailey	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			
	Morris	J.H. Orf	X	X								
	Rosemount	J.H. Orf	X	X								
	Waseca	J.H. Orf			X	X			X			
MD	Portageville (Loam)	S.C. Anand						X				
	Portageville (Clay)	S.C. Anand						X				
	Columbia	H. Minor					X	X				
NE	Lincoln	J.E. Specht						X				
	Mead	J.E. Specht			X	X	X			X	X	
NJ	Adelphia	J.R. Justin				X	X			X		

UNIFORM TEST LOCATIONS - 1986

Location		Conducted by	Uniform Tests 00	0	I	II	III	IV	Preliminary Tests I	II	III	IV
ND	Fargo	D.H. Whited	X	X								
OH	Hoytville	B.A. McBlain				X	X			X	X	
	Ripley	S.K.St. Martin					X	X				X
	S. Charlestown	R.L. Cooper					X	X			X	X
	Wooster	B.A. McBlain				X	X					
Ont.	Elora	W. Beversdorf	X	X								
	Harrow	R. Buzzell				X	X					
	London	W. Beversdorf			X							
	Ottawa	H.D. Voldeng	X	X								
	Ridgetown	G.R. Ablett			X	X			X			
	Smithfield	H.D. Voldeng & S. Miller		X								
PA	Landisville	J.O. Yocum &					X	X				
	Rock Springs	O.E. Hatley				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.	Locations with agronomic data (X)		8	9	13	21	21	18	8	10	8	8
No.	With seed composition data (X)		5	5	4	4	4	5	3	4	4	5

1986 DISEASE, SHATTERING, AND DESCRIPTIVE DATA

Location		Tests Conducted by	Tests	U.T.	P.T.
IA	Ames	J. Dunleavy	BTS	00-IV	
	Ames	W.R. Fehr	Iron Chlorosis	00-IV	I-III
	Ames	W.R. Fehr	Emergence	00-III	
	Ames	H. Tachibana	BSR	00-IV	I-IV
IL	Eldorado	R.L. Bernard	Shattering	III	IV
IN	Lafayette	T.S. Abney & T.L. Richards	PS, PSB, SMV	00-IV	I-IV
KS	Manhatten	W.T. Schapaugh, Jr.	Shattering	00-IV	I-IV
MN	St. Paul	J.H. Orf	BSR	00-IV	I
	Lamberton	J.H. Orf	Iron Chlorosis	00-IV	I
OH	Vickery	A.F. Schmitthenner	PR Tolerance	II-IV	II-IV
VA	Orange	D.E. Starner	PS, Mottling	IV	

IDENTIFICATION OF PARENT STRAINS

Strain	Parentage
A1	Anoka X Mack
A2	Unknown
A72-507	Amsoy X Wayne
A72-512	Amsoy X Wayne
A73-21030	L65-1342 X IVR EX 4311
A74-203002	M59-120 X IVR EX 4731
A75-103019	AP6 (S1) C0
A75-203036	IVR Ex 4428 X Woodworth
A75-204018	IVR Ex 4731 X Wirth
A75-302003	L15 X AP68-1016
A75-305022	Wye X (Amsoy X Wayne)
A75-332035	L15 X AP68-1016
A76-304020	(Beeson X AP68-1016) X (L15 X Calland)
A77-112008	Washington X A72-512
A77-211021	Beeson X A72-507
A77-314013	A73-21030 X Williams
A78-123018	Pride B-216 X Hodgson ~~or NK 9447 Exp. X Hodgson~~
A78-125029	Pride B216 X AX900-4-3
A79-131010	L69U40-19-1 X AX 909-15-1
A79-135010	Pride B216 X Cumberland
A79-331022	AX 913-5 X Oakland
A79-331028	AX 913-5 X Oakland
A79-334010	Pride B-216 X Land O'Lakes 4102
A79-336014	Pella X Oakland
A80-143015	A75-204018 X Weber
A80-149008	C1532 X 1YT-75-206013
A80-245002	Unknown
A80-245022	Northrup King S1492 X Weber
A80-245023	A75-332035 X Weber
A80-247007	A75-204018 X Weber
A80-344003	A75-332035 X Century
A81-157024	Pride $B216^2$ X A2
Amsoy 71 dt	Determinate Amsoy 71, M_2 from EMS treatment
Amurskaja 41	Unknown
AP6	40 lines intermated
AP68-1016	$Clark^5$ X PI 84946-2
AP68-1022	$Clark^5$ X PI84.946-2
AP68-1119	$Clark^4$ X PI84.946-2
AP68-1216	$Clark^4$ X PI84.946-2
Asgrow A3127	Williams X Essex
AX739	AP68-1216 X AP68-1016
AX751	Beeson X AP68-1119
AX900-4-3	CX407 BC_7-326 X AP68-1022
AX909-15-1	AP68-1016 X (C1426 X AP68-1016)
BD22115-13	(Amsoy X Portage) X 840-7-3
C1253	Blackhawk X Harosoy
CX407BC_7-326	Amsoy X C1253
C1421	$Adelphia^8$ X Mukden
C1426	C1253 X Kent
C1430	C1253 X Kent
C1432	C1253 X Kent

IDENTIFICATION OF PARENT STRAINS

Strain	Parentage
C1573	C1421 X Williams
D49-2525	S-100 X CNS
D53-184	D49-2525 X L6-5679
D63-6100	Hill[4] X PI171.442
D66-12392	D63-6100 X Dyer
D68-18	Unknown
Gold Tag 1250	Unknown
H75-5605	Unknown
H7847	Evans X Williams
HC74-3400	Williams X Ransom
HC76-644	L66-531 X Williams
HC76-3840	L72U-2567 X Hodgson
HC76-4030	L72U-2567 X Essex
Hofler Censoy	Unknown
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
HW 79149	(A72-507[6] X A1) X (A72-507[5] X PI82263-2)
IVR Ex 4311	Hark X Wayne
IVR Ex 4428	Corsoy X Wayne
IVR Ex 4731	Amsoy X Wayne
J22	PI81041 X Arksoy 2913
J74-5	Nathan
JA45	PI 196.163
JA53-7-6	PI 358.323
K74-104-76-167	Williams X Tracy
K74-113-76-486	Tracy X Pomona
K1022	Williams X Columbus
K1028	Williams X Calland
K1035	Williams X Calland
K1042	L66L-140 X Cutler 71
K1056	Tracy X Williams
L6-5679	Lincoln X Richland
L12	L6 X L11
L15	Wayne[6] X Clark 63; Wayne isoline with Rps.
L27	Corsoy[8] X Kingwa
L46-2132	Lincoln[2] X Richland
L57-0034	Clark X Adams
L60-347-1-60-2B (OX720-2b)	Harosoy X Higan
L62-361	Harosoy[6] X T117
L62-535	dt_1 from Harosoy[6] X T145
L65-1342	Wayne[2] X Clark e 2
L66-531	dt_1 e_2 E_1 from (Clark[6] x PI86.024) X (clark[6] x T175)
~~L66-531~~	~~Williams X Ransom~~
L66-1322	(Sel. Hawkeye x Lee) X (Sel. Hawkeye x Lee)

IDENTIFICATION OF PARENT STRAINS

Strain	Parentage
L66L-140	Wayne X L57-0034
L66L-154	Wayne X L57-0034
L68-4106	[(Wayne^{6} x Clark 63)^{5} X (Clark^{6} x T201) X (Clark^{6} X T145)] X (Wayne^{10} X Kanrich)
L69L-3	L66-531 X L62-535
L69U-37-17-5	Calland X Corsoy
L69U40-16-4	Calland X Amsoy
L69U-40-19-1	Calland X Amsoy
L70T-543G	L15 X Amsoy 71
L71-1277	Dt_2S from (Clark^{6} X Higan) X (Clark^{6} X T117)
L71-3628	L66-1322 X L62-535
L72U-2567	Williams X Ransom
L73-4124	D66-12392 X L69L-3
L73-4673	Corsoy X L66L-154
L73-6356	Custer X L12
L73-6536	Custer X L12
L73U-632	Miller 67 X L66L-140
L74-3897	Williams X Beeson
L74-4611	Beeson X L71-1277
L74D-619	Williams X Ransom
L74D-634	Williams X Ransom
L74D-674	Amsoy 71 X Ransom
L75-0570	Wells^{6} X T259 (Illinois Male Sterile)
L75-3632	Corsoy^{6} X Lee
L75-8064	Unknown
L76-0022	Williams^{4} X PI171.451
L77-1836	Williams^{7} X Harrel (Rps1-b)
L78-0376	Clark^{2} X PI84.946-2
L78-4094	Beeson X L68-0376
L78-4245	L68-4106 X L68-0376
L78-8694	L71-3628 X Elf
L78-9069	L73-4124 X Elf
L78L-449	L73-4124 X Essex
L78L-499	Unknown
Land O'Lakes 4102	Unknown
Land O'Lakes Max	Unknown
LN78-537	Union X K1028
LN78-2123	Unknown
LN78-2714	Evans X K1028
LN1060	Williams X Tracy
LS77-13	D68-18 X PI88.788
M10	Lincoln^{2} X Richland
M53-43	M10 X PI180.501
M53-117	M10 X PI180.501
M54-110	Harosoy X Norchief
M54-120	Unknown
M54-139	Renville X Capital
M54-240	(Lincoln^{2} X Richland) X Korean
M59-120	M54-240 X M54-139

IDENTIFICATION OF PARENT STRAINS

Strain	Parentage
M62-93	Merit X M54-110
M62-101	Merit X M54-110
M62-263	Grant X M319W
M62-345	M319W X Harosoy
M63-87	Chippewa 64 X PI 261.475
M63-158	PI 261.475 X Pridesoy II
M63-194	Corsoy X PI 132.207
M63-217Y	Corsoy X M53-117
M64-3	Traverse X JA45
M65-442	Anoka X Amsoy
M67-141	Corsoy X Wayne
M68-49	Evans X M59-120
M68-49-26	Evans X M54-120
M68-176	Merit X Beeson
M68-201	Evans X Steele
M68-213	M62-101 X Steele
M68-256	Evans X Steele
M69-36	Merit X Corsoy
M69-42	M63-158(Bf) X Provar
M70-9	M64-3 X Amsoy 71
M70-127	Evans X M63-217Y
M70-184	Steele X (Evans x Lee)
M70-294	JA53-7-6 X M63-217Y
M70-330	M62-93 X M64-3
M70-436	Evans X M64-3
M70-447	Provar X M53-43
M40-484	M63-87 X M53-43
M70-504	M63-87 X PI 189.880
M70-597	Steele X AP68-1016
M71-25	Clay X Evans
M71-26	Clay X M63-2174
M71-38	Wilkin X M62-263
M71-52	Evans X M62-345
M71-65	Steele X M63-194
M72-3	Evans X Hodgson
M72-26	Evans X Wells
M73-105	M68-49 X Clay
M73-129	M68-49 X Hodgson
M74-69	M68-256 X Hodgson
M75-2	Hodgson[4] X [M67-141 X (Chippewa X Higan)]
M319W	Lincoln X Hawkeye
Merchman Washington V	Unknown
Midwest Oilseeds 2050	Unknown
Midwest Oilseeds 3010	Unknown

IDENTIFICATION OF PARENT STRAINS

Strain	Parentage
MRC Cheyenne	Unknown
Miller 67	Unknown
NAPB HP20-20	Clay X williams
Peterson 1677	Unknown
Peterson 85	Provar X (Amsoy X PI 248.404)
PMGT-C2S1-116-18	Cycle two, S3 selections from PMGT Rec. Sel. Pop. (A75-103019, A76-202015, A76-304005, Cumberland, Pella, Agripro AP26, Century, Northrup King S1346, Pfizer Genetics CX276, Pride B216)
Pride B-203	Pride B-2-216[6] X (Mack X Corsoy)
Pride B-216	Corsoy X Wayne
Salut 216	Unknown
Schechinger 548	Unknown
SRF 150	Unknown
T117	Ak114 X PI65.394
Tri-Valley Charger	IVR 1120 X Calland
Tri Valley Charger III	Unknown
U10426	C1432 X C1430
U10816	C1253 X Wayne
U37219	C1430 X Calland
U66434	FC04.0073 X Clark 63
V66-318	D53-184 X J22
V68-1034	York X PI71.506
V71-793	Delmar X V66-318
1YT-75-206013	AX739 X AX751
840-7-3	from Sven A. Holmberg, Sweden

UNIFORM TEST 00, 1986

Entry	Parentage	Previous Testing*	Generation Composited
Bicentennial	Harosoy 63 X Fiskevy V	3	F7
Clay (0)	Capital X Renville	9	F5
Maple Ridge	Fiskeyby III X Evans	6	F5
McCall (00)	(Acne X Chippewa) X Hark	13	F5
M81-411	L75-0507 X McCall	1	F5
M82-262	Swift X M68-176	-	F5
M82-303	M70-330 X M68-176	-	F5
M82-418	M71-25 X M71-65	-	F5
M82-434	M71-25 X M70-447	-	F5
ND851	(BD21115 X SRF150) X (Merit X Anoka)	1	F5
ND861	Wilkin X L62-361	-	F5
ND862	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
OT84-4	Evans^{3} e3 X 840-7-3	-	F5
Maple Glen OT84-12	BD21115-13 X Premier	-	F5

* Number of years in test or name of 1985 test.

UNIFORM TEST 00, 1986

DESCRIPTIVE DATA

Strain	Descriptive Code		Chlorosis Score		Emergence Score	Shattering Score
			Ames	Lamberton	Ames	Manhattan
Bicentennial	PTBDYBr	I	4.0	4	1	1
Clay (0)	PGBSYY	I	3.2	4	2	2
Maple Ridge	PTBDYY	I	2.0	2	2	1
McCall (00)	PGBDYY	I	2.7	3	1	1
M81-411	PGBDYY	I	2.5	4	1	2
M82-262	PGBDYIb	I	2.0	2	5	1
M82-303	PGTDYY	I	2.3	5	2	1
M82-418	PGBDYY	I	3.3	3	2	1
M82-434	PGBDYY	I	2.2	3	1	1
ND851	PTBDYY	I	2.2	2	1	2
ND861	WGBSYY	I	2.5	3	1	2
ND862	PGBSYGr	I	2.5	3	1	1
ND863	WGBSYY	I	2.0	3	1	2
ND864	PGBDYY	I	2.2	2	1	3
ND865	WGBDYY	I	2.5	3	2	3
ND866	WGBSYY	I	2.8	3	1	2
ND867	PGBDYGr	I	2.5	3	1	2
ND868	PGBDYGr	I	2.8	3	1	2
OT84-4	W+PGBDYY	I	2.8	4	1	2
OT84-12	PTBDYY	I	4.0	4	1	1

UNIFORM TEST 00, 1986

DISEASE DATA

	BSR			BTS	PS	PSB	SMV
	Ames		St. Paul				
	Plant	Stem	Plant	Ames	Lafayette		
	N	N	N	a	a	n	a
Strain	%	%	%	Score	%	%	Score
Bicentennial	100	59.3	100	3	3	4	4M
Clay (0)	100	67.2	60	4	8	12	4E
Maple Ridge	100	85.4	40	3	17	36	3E
McCall (00)	100	82.5	80	4	27	30	2M
M81-411	100	59.3	80	4	14	26	3M
M82-262	100	58.9	60	3	11	48	1
M82-303	100	52.8	40	3	13	54	2M
M82-418	100	72.6	60	3	16	32	3E
M82-434	100	69.7	70	3	17	32	2E
ND851	100	50.6	60	3	4	34	2E
ND861	100	75.7	60	3	16	32	1
ND862	100	68.4	60	3	17	14	1
ND863	100	72.6	60	3	14	32	1
ND864	100	79.0	80	3	15	24	2E
ND865	100	72.3	60	3	28	16	1
ND866	100	80.6	80	3	33	60	3E
ND867	100	75.8	60	3	19	14	3E
ND868	100	74.1	40	3	20	26	1
OT84-4	100	65.8	50	3	3	24	1
OT84-12	100	40.7	80	3	10	16	4E

None of the strains in this test were superior in performance to Bicentennial, based on the two-year means. A few strains were fairly susceptible to shattering at Manhatten. Several strains were also very susceptible to iron Chlorosis. Bicentennial had a much lower incidence of seed infected with pathogens causing purple seed stain and pod and stem blight those did other entries in this test. The strains M82-262 and M82-418 are both resistant to PR race 1, based on Minnesota tests.

UNIFORM TEST 00, 1986

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	%	%
Bicentennial	40.8	2	+8.7	2.2	34	1.8	18.2	40.9	19.1
Clay (0)	36.8	17	+5.7	1.9	30	1.8	15.4	41.2	18.9
Maple Ridge	38.5	9	-0.8	1.4	28	1.7	15.1	40.8	18.9
McCall (00)	38.9	5	9-16.0*	2.2	31	1.9	14.1	40.0	18.6
M81-411	38.9	5	+6.0	2.2	35	1.9	15.2	41.3	18.3
M82-262	35.8	18	+5.4	1.8	34	2.1	13.1	38.4	19.8
M82-303	38.6	7	+8.4	2.2	35	2.3	13.4	38.6	20.0
M82-418	38.6	7	+10.1	2.5	34	2.1	16.2	39.9	19.3
M82-434	37.2	14	+6.4	1.6	30	2.0	15.4	42.4	19.0
ND851	40.0	4	+4.7	2.3	36	1.9	15.7	40.3	19.8
ND861	35.3	19	-5.7	1.1	25	1.9	14.5	41.6	18.3
ND862	37.0	15	-2.0	2.1	32	2.1	16.6	41.9	17.9
ND863	38.4	10	-5.4	1.3	27	1.8	15.1	39.9	19.8
ND864	38.1	11	-3.1	1.4	30	1.7	17.2	40.9	19.5
ND865	33.0	20	-7.3	1.3	23	1.8	15.5	40.8	19.2
ND866	40.2	3	-0.7	1.6	28	1.8	15.0	40.6	19.1
ND867	37.9	13	-1.9	1.7	32	2.0	18.1	40.6	19.8
ND868	37.0	15	-1.4	1.8	31	1.9	17.7	40.9	19.5
OT84-4	38.0	12	-1.1	1.8	29	1.8	14.6	41.0	19.2
OT84-12 *Maple Glen*	41.0	1	+6.1	2.1	31	2.1	17.6	41.5	19.4

* 116 Days after planting.

1985-1986, 2-YEAR MEAN

Strain	Yield	Rank	Maturity	Lodging	Plant Height	Seed Quality	Seed Size	Composition Protein	Composition Oil
No. of Tests	16	16	15	16	16	15	15	9	9
	bu/a	No.	Date	Score	In	Score	g/100	%	%
Bicentennial	37.2	1	+7.2	1.9	32	2.0	18.8	40.7	18.6
Clay (0)	33.4	6	+7.6	1.7	28	2.2	15.4	41.1	18.6
Maple Ridge	35.3	5	-2.6	1.4	26	1.8	15.2	40.6	18.6
McCall (00)	37.0	2	9-17.2*	1.8	30	2.0	14.5	40.2	18.4
M81-411	36.1	3	+6.4	1.8	32	2.2	15.4	41.8	17.9
ND851	36.0	4	+5.6	1.8	33	2.0	16.1	40.4	19.4

* 116 Days after planting.

UNIFORM TEST 00, 1986

YIELD (bu/a)

Strain	Mean 8 Tests	Brandon Man.	Crookston MN	Morris MN	Rosemount MN	Fargo ND	Elora ONT	Ottawa ONT	Ashland WI
Bicentennial	40.8	39.2	30.8	53.6	48.7	51.8	35.1	39.5	27.7
Clay (0)	36.8	27.9	30.4	51.6	41.7	48.8	32.1	37.0	25.2
Maple Ridge	38.5	35.2	35.3	42.2	40.8	52.6	32.4	41.5	28.2
McCall (00)	38.9	33.1	34.4	49.5	39.1	48.2	35.7	38.8	32.4
M81-411	38.9	28.3	29.3	48.8	47.2	51.8	34.2	42.0	29.5
M82-262	35.8	26.0	28.0	51.5	44.7	43.9	29.0	38.9	24.2
M82-303	38.6	24.7	31.4	54.2	48.9	54.2	32.3	35.2	27.8
M82-418	38.6	19.2	28.0	55.9	49.6	49.2	35.8	42.1	29.1
M82-434	37.2	28.4	31.4	53.0	40.2	44.5	31.2	39.2	29.6
ND851	40.0	34.6	29.2	53.0	44.4	57.2	29.7	41.1	30.7
ND861	35.3	31.8	29.6	44.0	36.9	49.5	22.9	43.1	21.9
ND862	37.0	34.0	29.1	51.3	39.3	48.1	29.5	36.9	27.8
ND863	38.4	36.1	32.2	45.2	40.3	52.6	26.8	44.0	29.7
ND864	38.1	34.2	30.0	43.4	39.8	55.0	31.8	40.4	30.1
ND865	33.0	34.8	31.2	35.8	35.0	50.8	25.2	34.1	17.3
ND866	40.2	40.2	33.6	46.4	43.8	52.6	29.7	43.5	31.9
ND867	37.9	33.2	29.7	43.2	42.3	48.5	31.2	41.7	33.5
ND868	37.0	36.3	30.8	43.2	41.5	49.8	26.5	39.9	27.7
OT84-4	38.0	37.3	33.6	48.6	43.9	50.9	25.6	37.5	26.5
OT84-12	41.0	31.8	30.1	55.5	51.0	51.0	34.2	43.0	31.7
C.V. (%)		6.5	11.9	9.6	9.0	6.0	9.4	6.8	20.8
L.S.D. (5%)		2.9	5.2	7.7	6.4	5.0	4.0	3.8	9.2
Row Sp. (in.)		9	12	10	10	12	15	16	24
Rows/Plot		4	8	10	10	2	4	4	4
Reps		4	4	3	3	3	4	4	3

UNIFORM TEST 00, 1986
YIELD RANK

Strain	Yield Rank	Brandon Man.	Crookston MN	Morris MN	Rosemount MN	Fargo ND	Elora ONT	Ottawa ONT	Ashland WI
Bicentennial	2	14	9	4	4	7	1	12	14
Clay (0)	17	17	11	7	11	15	8	17	17
Maple Ridge	9	5	1	19	13	4	6	8	11
McCall (00)	5	11	2	10	18	17	3	15	2
M81-411	5	16	16	11	5	7	4	6	9
M82-262	18	18	19	8	6	20	15	14	18
M82-303	7	19	6	3	3	3	7	19	12
M82-418	7	20	19	1	2	14	1	5	10
M82-434	14	15	6	5	15	19	10	13	8
ND851	4	7	17	5	7	1	12	9	5
ND861	19	12	15	15	19	13	20	3	19
ND862	15	9	18	9	17	18	14	18	12
ND863	10	4	5	14	14	4	16	1	7
ND864	11	8	13	16	16	2	9	10	6
ND865	20	6	8	20	20	11	19	20	20
ND866	3	1	3	13	9	4	12	2	3
ND867	13	10	14	17	10	16	10	7	1
ND868	15	3	9	17	12	12	17	11	14
OT84-4	12	2	3	12	8	10	18	16	16
OT84-12	1	13	12	2	1	9	4	4	4

MATURITY (Date)

Strain	Mean 7 Tests							
Bicentennial	+8.7	+9	+10	+10	+13	+5	+6	+8
Clay (0)	+5.7	+5	+7	+4	+5	+5	+6	+8
Maple Ridge	-0.8	-13	-2	-5	-7	-11	-10	-6
McCall (00)	9-16.0	9-12	9-7	8-29	9-8	9-25	9-30	10-2
M81-411	+6.0	+6	+10	+8	+7	+5	+4	+2
M82-262	+5.4	+6	+10	+6	+5	0	+6	+5
M82-303	+8.4	+10	+12	+10	+6	+4	+11	+6
M82-418	+10.1	+10	+12	+9	+8	+7	+13	+12
M82-434	+6.4	+6	+8	+6	+6	+2	+9	+8
ND851	+4.7	+2	+9	+3	+6	+5	+6	+2
ND861	-5.7	-15	-4	-6	-7	-4	-7	+3
ND862	-2.0	-10	-3	-3	-3	+3	+3	-1
ND863	-5.4	-15	-5	-1	-8	0	-6	-3
ND864	-3.1	-11	-2	-4	-7	+1	-2	+3
ND865	-7.3	-11	-6	-6	-8	-12	-6	-2
ND866	-0.7	-14	-2	-1	-3	+4	+5	+6
ND867	-1.9	-12	-2	-1	-4	+3	+2	+1
ND868	-1.4	-14	-1	+2	-3	+2	+1	+3
OT84-4	-1.1	-3	+1	+2	-5	-3	-4	+4
OT84-12	+6.1	+8	+12	+9	+7	0	+5	+2
Date Planted	5-23	5-20	5-14	5-21	5-22	5-29	5-29	5-23
Days to Mature	117	115	116	102	109	119	124	132

UNIFORM TEST 00, 1986

LODGING (Score)

Strain	Mean 8 Tests	Brandon Man.	Crookston MN	Morris MN	Rosemount MN	Fargo ND	Elora ONT	Ottawa ONT	Ashland WI
Bicentennial	2.2	1.0	1.8	2.7	3.0	1.7	1.8	4.5	1.3
Clay (0)	1.9	1.0	1.5	2.0	2.7	2.3	1.4	3.2	1.3
Maple Ridge	1.4	1.0	1.0	2.0	2.0	1.0	1.0	2.2	1.3
McCall (00)	2.2	1.0	2.8	2.3	2.3	3.7	1.5	2.7	1.0
M81-411	2.2	1.0	2.3	2.7	2.7	3.0	1.4	3.0	1.7
M82-262	1.8	1.0	1.3	2.3	2.7	1.7	1.0	3.2	1.0
M82-303	2.2	1.0	2.0	3.3	2.7	2.7	1.0	4.0	1.0
M82-418	2.5	1.0	1.5	3.3	2.7	4.0	1.4	4.5	1.3
M82-434	1.6	1.0	1.0	2.0	3.0	1.3	1.0	2.5	1.3
ND851	2.3	1.0	1.0	2.7	3.0	4.7	1.1	3.2	1.7
ND861	1.1	1.0	1.0	1.0	1.7	1.0	1.0	2.0	1.0
ND862	2.1	1.0	1.0	2.3	3.0	2.3	1.5	3.5	2.0
ND863	1.3	1.0	1.0	1.0	2.0	1.0	1.0	2.0	1.0
ND864	1.4	1.0	1.0	1.3	2.0	1.0	1.0	2.8	1.3
ND865	1.3	1.0	1.0	1.0	1.7	1.3	1.0	2.0	1.3
ND866	1.6	1.0	1.0	1.0	2.3	2.3	1.1	2.8	1.0
ND867	1.7	1.0	1.3	1.7	2.0	2.0	1.0	3.0	1.3
ND868	1.8	1.0	1.3	2.0	2.0	2.7	1.0	3.3	1.3
OT84-4	1.8	1.0	1.8	2.3	2.0	2.3	1.0	2.8	1.3
OT84-12	2.1	1.0	2.0	3.0	2.3	3.0	1.0	3.0	1.3

PLANT HEIGHT (Inches)

Strain	Mean 8 Tests								
Bicentennial	34	32	43	37	40	34	29	34	25
Clay (0)	30	31	36	33	34	31	22	28	24
Maple Ridge	28	26	34	29	32	29	22	27	23
McCall (00)	31	31	41	33	37	32	25	27	23
M81-411	35	31	45	39	43	36	28	32	29
M82-262	34	34	41	37	40	37	24	32	23
M82-303	35	33	44	39	39	38	24	33	28
M82-418	34	33	43	39	37	36	26	35	23
M82-434	30	28	33	34	33	32	22	30	25
ND851	36	34	39	39	42	40	27	36	32
ND861	25	28	31	24	28	26	20	25	19
ND862	32	31	36	34	36	30	26	33	29
ND863	27	28	32	28	30	28	20	28	21
ND864	30	30	37	32	33	30	26	30	23
ND865	23	23	29	21	25	26	19	21	17
ND866	28	28	32	28	33	31	23	27	23
ND867	32	32	37	32	34	32	27	32	27
ND868	31	32	35	32	36	32	25	32	26
OT84-4	29	31	34	31	34	27	22	31	22
OT84-12	31	30	39	31	39	32	23	30	24

UNIFORM TEST 00, 1986
SEED QUALITY (Score)

Strain	Mean 7 Tests	Brandon Man.	Crookston MN	Morris MN	Rosemount MN	Fargo ND	Elora ONT	Ottawa ONT	Ashland WI
Bicentennial	1.8		2.3	1.3	2.0	2.2	1.8	2.0	1.0
Clay (0)	1.8		1.3	1.7	2.0	1.5	3.1	2.0	1.0
Maple Ridge	1.7		1.7	1.7	3.0	1.5	1.8	1.3	1.0
McCall (00)	1.9		1.7	2.0	3.0	1.0	3.3	1.3	1.0
M81-411	1.9		2.0	2.0	2.0	1.8	2.8	2.0	1.0
M82-262	2.1		2.3	1.7	3.0	2.2	2.5	2.0	1.0
M82-303	2.3		2.0	2.0	3.3	3.0	2.9	2.0	1.0
M82-418	2.1		2.3	2.0	1.7	3.0	2.8	2.0	1.0
M82-434	2.0		2.0	2.0	1.7	2.2	2.8	2.0	1.0
ND851	1.9		1.7	1.3	2.0	3.0	2.5	2.0	1.0
ND861	1.9		1.3	1.7	2.3	2.2	2.6	2.0	1.0
ND862	2.1		2.0	2.7	3.0	1.2	2.9	2.0	1.0
ND863	1.8		1.7	2.0	2.0	1.2	2.5	2.1	1.0
ND864	1.7		1.7	1.7	2.0	1.0	3.0	1.3	1.0
ND865	1.8		2.0	2.0	2.7	1.2	1.5	2.0	1.0
ND866	1.8		1.3	1.7	2.0	1.0	3.5	2.0	1.0
ND867	2.0		2.0	2.0	3.0	1.0	3.6	1.7	1.0
ND868	1.9		1.7	1.7	3.0	1.0	3.4	1.2	1.0
OT84-4	1.8		2.0	1.7	2.0	2.2	2.0	1.7	1.0
OT84-12	2.1		2.3	2.0	3.0	2.2	2.5	1.7	1.0

SEED SIZE (g/100)

Strain	Mean 7 Tests							
Bicentennial	18.2	19.0	20.5	18.2	18.6	17.7	19.7	14.0
Clay (0)	15.4	15.5	17.2	15.9	16.7	13.5	15.6	13.3
Maple Ridge	15.1	12.5	15.6	15.3	15.7	16.2	16.2	13.9
McCall (00)	14.1	13.4	14.9	13.1	14.6	14.1	15.0	13.6
M81-411	15.2	12.8	16.7	16.3	17.3	14.6	15.1	13.4
M82-262	13.1	10.5	14.8	14.7	14.2	11.6	13.9	12.0
M82-303	13.4	13.6	15.8	14.9	14.1	11.1	12.9	11.6
M82-418	16.2	14.1	19.4	18.4	18.6	16.1	16.2	13.8
M82-434	15.4	15.2	18.4	15.0	16.9	14.3	14.9	13.4
ND851	15.7	14.5	16.8	17.4	15.9	14.1	17.2	13.9
ND861	14.5	12.5	15.3	13.9	15.7	14.5	15.5	13.8
ND862	16.6	15.5	18.6	16.7	16.5	17.1	18.2	13.9
ND863	15.1	13.9	16.7	14.9	15.4	14.6	16.6	13.8
ND864	17.2	16.6	19.0	16.5	18.0	18.0	18.4	13.9
ND865	15.5	14.3	17.2	15.3	16.7	15.1	15.8	13.9
ND866	15.0	13.2	16.7	15.1	16.3	14.8	15.4	13.6
ND867	18.1	17.1	19.2	18.6	19.8	18.2	20.1	14.0
ND868	17.7	15.2	19.5	17.7	19.0	18.5	20.2	13.9
OT84-4	14.6	12.8	17.2	14.5	15.7	13.4	15.3	13.5
OT84-12	17.6	17.0	19.8	18.7	18.0	17.2	18.5	13.9

UNIFORM TEST 00, 1986

PROTEIN (%)

Strain	Mean 5 Tests	Morris MN	Rosemount MN	Fargo ND	Elora ONT	Ashland WI
Bicentennial	40.9	42.1	39.9	40.1	41.9	40.7
Clay (0)	41.2	40.6	39.9	40.7	43.7	41.0
Maple Ridge	40.8	40.7	41.1	41.0	40.2	41.0
McCall (00)	40.0	39.4	39.3	39.9	40.6	40.6
M81-411	41.3	41.5	40.6	41.5	41.5	41.5
M82-262	38.4	37.7	36.9	38.6	39.6	39.1
M82-303	38.6	37.3	36.8	38.3	40.4	40.0
M82-418	39.9	39.8	39.2	40.0	41.3	39.4
M82-434	42.4	42.2	41.8	41.9	43.3	42.8
ND851	40.3	41.2	39.2	39.0	41.2	41.1
ND861	41.6	41.6	40.7	40.3	41.4	44.2
ND862	41.9	41.3	40.5	40.8	44.2	42.7
ND863	39.9	40.2	38.6	39.3	40.0	41.3
ND864	40.9	39.9	39.2	40.5	42.0	42.9
ND865	40.8	41.6	40.1	40.0	40.8	41.3
ND866	40.6	41.0	39.8	39.2	41.5	41.7
ND867	40.6	40.5	39.4	39.9	40.8	42.5
ND868	40.9	40.7	39.7	39.6	42.2	42.4
OT84-4	41.0	40.2	40.0	40.2	41.7	43.1
OT84-12	41.5	42.3	40.9	41.4	42.6	40.4

OIL (%)

Strain	Mean 5 Tests					
Bicentennial	19.1	19.7	20.3	19.7	17.9	18.0
Clay (0)	18.9	20.1	20.5	19.6	17.9	16.6
Maple Ridge	18.9	19.4	19.5	19.0	18.3	18.4
McCall (00)	18.6	19.6	19.6	18.4	18.1	17.2
M81-411	18.3	18.6	19.6	18.5	18.5	16.5
M82-262	19.8	21.1	21.5	19.6	19.1	17.8
M82-303	20.0	20.8	21.7	20.2	19.5	17.6
M82-418	19.3	20.6	20.6	19.3	18.3	17.9
M82-434	19.0	19.6	20.1	18.9	18.4	18.0
ND851	19.8	20.3	21.4	20.1	18.7	18.3
ND861	18.3	18.6	19.8	19.1	17.6	16.5
ND862	17.9	18.6	19.6	18.1	16.6	16.4
ND863	19.8	20.5	21.6	20.4	19.2	17.2
ND864	19.5	20.6	20.9	19.6	18.7	17.5
ND865	19.2	19.4	20.3	19.5	19.3	17.6
ND866	19.1	19.3	20.2	20.0	18.9	17.2
ND867	19.8	20.4	21.2	20.0	20.1	17.4
ND868	19.5	20.3	21.3	19.8	18.8	17.5
OT84-4	19.2	20.0	20.4	19.9	18.6	17.3
OT84-12	19.4	19.7	20.4	18.9	19.5	18.4

Uniform Test O, 1986

Strain	Parentage	Previous Testing*	Generation Composited
Dawson (O)	Evans X M63-217Y	5	F5
Hodgson 78 (I)	Hodgson X Merit	9	BC6 F5
McCall (OO)	(Acme X Chippewa) X Hark	6	F5
M74-12	Evans X Peterson 85	1	F5
M77-252	M70-504 X M69-42	2	F5
M81-18	Evans X M65-442	1	F5
M81-27	M68-49-26 X M70-294	1	F5
M81-70	Evans X Maple Arrow	1	F5
M81-76	M68-49-26 X M70-184	1	F5
M81-98	M70-9 X M68-201	1	F5
M81-571	M70-484 X Dawson	1	F5
M82-102	M71-26 X Lakota	-	F5
M82-317	M71-38 X M68-213	-	F5
M82-324	M71-38 X M68-213	-	F5
M82-387	Clay X Pride B216	-	F5
M82-408	M71-25 X Hodgson 78	-	F5
M82-545	M70-436 X Vickery	-	F5
M82-585	M70-330 X M68-176	-	F5
M82-601	M70-484 X Vickery	-	F5
M82-791	M68-256 X L74-3897	-	F5
M82-806	M71-52 X Wells II	-	F5
M82-996	M72-3 X Peterson 1677	-	F5
M82-1004	M72-3 X Peterson 1677	-	F5
M82-1011	M72-3 X Peterson 1677	-	F5
M82-1027	M72-3 X Peterson 1677	-	F5
OT83-4	Maple Arrow X Harcor	2	F5
OT84-14	Maple Arrow X Wayne	1	F5

*Number of years in test or name of 1985 test.

Several strains in this test were higher yielding and had better lodging resistance than the check varieties in 1986. The strain M77-252 has had consistently higher seed protein and lower seed oil than the other entries. The strain M81-27 had very low iron chlorosis scores in Ames and Lamberton. All Minnesota strains except M82-387 are resistant to PR race 1 based on Minnesota test.

UNIFORM TEST 0, 1986

DESCRIPTIVE DATA

Strain	Descriptive Code		Chlorosis Score Ames	Chlorosis Score Lamberton	Emergence Score Ames	Shattering Score Manhattan
Dawson (0)	PGBDYY	I	1.8	2	1	1
Hodgson 78 (I)	PGBDYBf	I	2.7	3	4	1
McCall (00)	PGBDYY	I	2.7	3	1	2
M74-12	PGBDYIb	I	2.5	3	2	1
M77-252	PGBDYBf	I	3.0	5	1	1
M81-18	PGBDYY	I	2.8	2	3	1
M81-27	WGBDYY	I	1.7	1	2	2
M81-70	PGBDYBf	I	3.2	3	1	2
M81-76	PGBDYY+Br	I	3.7	3	1	1
M81-98	WGTDYY+IB	I	2.8	5	2	1
M81-571	WGBDYY	I	3.2	3	1	1
M81-102	WTTDYB1	I	3.0	2	2	1
M82-317	PGBDYIb	I	2.7	4	4	2
M82-324	PGBDYIb	I	3.3	3	2	1
M82-387	PGBDYY	I	3.2	4	1	1
M82-408	WGBDYY	I	1.8	3	2	1
M82-545	PGBDYY	I	3.7	2	1	1
M82-585	WGTDYY	I	2.7	4	3	1
M82-601	PGBDYY	I	2.5	4	2	2
M82-791	WGTDYBf	I	2.5	4	2	1
M82-806	WGBDYY	I	3.2	3	1	1
M82-996	WGBDYBf	I	2.8	3	2	1
M82-1004	PGBDYY	I	2.2	3	2	1
M82-1011	PGBDYBf	I	3.2	3	5	-
M82-1027	W+PGBDYY	I	2.8	5	4	2
OT83-4	PGBSYBf	I	3.2	4	2	1
OT84-14	WTBSYB1	I	3.0	5	1	1

UNIFORM TEST 0, 1986

DISEASE DATA

	BSR			BTS	PS	PSB	SMV
	Ames		St. Paul				
	Plant	Stem	Plant	Ames	Lafayette		
	N	N	N	a	a	n	a
Strain	%	%	%	Score	%	%	Score
Dawson (0)	100	48.3	60	3	11	20	1
Hodgson 78 (I)	100	54.6	80	4	13	16	2M
McCall (00)	100	69.5	80	4	27	36	2M
M74-12	100	63.4	60	4	31	24	1
M77-252	100	65.9	60	5	13	18	5E
M81-18	100	62.3	80	4	24	28	1
M81-27	100	72.3	70	4	6	12	2E
M81-70	100	70.2	70	3	4	36	2E
M81-76	100	69.9	70	4	12	14	1
M81-98	100	55.0	70	4	12	12	3M
M81-571	100	55.9	70	4	4	18	1
M81-102	100	61.8	60	4	11	12	3M
M82-317	100	61.3	70	4	5	26	2E
M82-324	100	48.4	60	4	10	26	1
M82-387	100	62.1	60	4	12	22	2E
M82-408	100	67.0	60	4	8	20	1
M82-545	100	64.3	50	3	26	16	4E
M82-585	100	61.1	70	4	11	42	4E
M82-601	100	52.0	70	3	13	20	2E
M82-791	100	48.5	40	3	15	22	1
M82-806	100	40.4	60	4	5	30	4E
M82-996	90	54.5	70	3	15	36	3M
M82-1004	100	41.0	60	3	22	18	1
M82-1011	100	43.6	60	3	11	40	2M
M82-1027	100	40.6	70	3	29	26	2M
OT83-4	100	44.6	50	3	22	14	3E
OT84-14	100	40.9	-	3	17	18	1

UNIFORM TEST 0, 1986

Regional Summary

Strain	Yield	Rank	Maturity	Lodging	Plant Height	Seed Quality	Seed Size	Composition Protein	Composition Oil
No. of Tests	9	9	7	8	9	8	9	5	5
	bu/a	No.	Date	Score	In	Score	g/100	%	%
Dawson (0)	40.5	20	9-29.9*	2.7	35	2.0	14.1	40.4	18.6
Hodgson 78 (I)	40.9	18	+6.1	2.8	39	1.6	14.7	40.2	18.6
McCall (00)	37.2	24	-10.3	2.0	30	1.9	14.6	39.5	18.8
M74-12	43.9	4	+1.3	1.8	35	1.9	16.3	41.7	18.5
M77-252	35.1	27	+0.1	3.0	32	1.8	17.3	44.4	16.2
M81-18	44.1	1	-3.7	2.0	34	1.9	15.4	39.3	19.7
M81-27	41.6	15	+3.0	2.0	33	2.1	15.4	40.4	18.9
M81-70	38.5	23	+2.4	2.9	37	2.0	15.1	40.8	19.3
M81-76	40.2	21	+1.6	2.4	36	2.1	18.5	41.7	18.5
M81-98	41.7	14	+2.1	1.5	33	1.9	14.3	40.6	19.3
M81-571	42.3	10	+1.9	2.8	36	2.1	14.3	40.6	18.6
M82-102	36.9	25	+1.0	2.2	35	2.0	16.8	42.1	18.6
M82-317	44.0	2	+0.5	2.1	34	1.6	16.0	40.6	18.3
M82-324	42.0	13	+0.4	2.3	36	1.8	14.9	41.7	18.4
M82-387	41.6	15	+0.1	2.4	34	2.0	15.7	41.0	18.5
M82-408	43.4	7	+3.9	2.0	34	1.9	16.4	39.9	19.0
M82-545	41.2	17	+1.3	1.9	37	1.9	15.8	41.1	18.5
M82-585	40.9	18	+2.9	1.8	37	2.1	14.3	39.3	19.4
M82-601	42.1	11	-0.3	2.7	35	2.0	14.7	40.7	19.0
M82-791	38.7	22	+4.1	2.0	38	1.7	14.7	42.3	18.1
M82-806	35.9	26	+4.2	2.0	36	2.0	16.9	43.0	17.8
M82-996	43.6	6	+2.0	1.8	35	1.6	13.8	40.0	19.0
M82-1004	42.1	11	+3.4	2.4	37	1.9	12.6	40.8	18.1
M82-1011	43.8	5	+1.0	1.7	34	1.7	15.0	39.1	19.6
M82-1027	42.8	8	+3.4	3.0	38	2.0	15.4	40.1	18.7
OT83-4	44.0	2	0.0	2.2	36	1.4	14.1	41.0	18.9
OT84-14	42.7	9	+1.0	2.7	35	1.7	16.4	40.9	19.1

* 129 Days after planting.

UNIFORM TEST 0, 1986

1985-1986 2-YEAR MEAN

Strain	Yield	Rank	Maturity	Lodging	Plant Height	Seed Quality	Seed Size	Composition Protein	Composition Oil
No. of Tests	18	18	15	17	18	16	18	9	9
	bu/a	No.	Date	Score	In	Score	g/100	%	%
Dawson (0)	39.5	10	9-27.6*	2.2	32	1.8	15.1	40.4	18.8
Hodgson 78 (I)	40.2	7	+6.8	2.3	36	1.8	16.2	40.0	18.9
McCall (00)	35.0	12	-11.4	1.8	28	2.0	15.2	39.6	18.8
M74-12	41.3	2	+0.8	1.6	31	2.0	17.4	41.5	18.6
M77-252	35.0	12	+0.5	2.4	30	1.9	18.6	44.8	16.2
M81-18	42.2	1	-4.1	1.6	30	1.8	16.2	38.8	19.8
M81-27	40.6	6	+3.2	1.7	31	1.9	16.5	40.0	19.2
M81-70	38.8	11	+3.3	2.6	36	1.8	16.8	40.4	19.6
M81-76	39.8	9	+1.9	2.0	33	2.0	19.8	41.6	19.0
M81-98	40.7	5	+3.4	1.4	32	2.1	15.4	39.9	19.8
M81-571	41.0	3	+2.4	2.2	33	1.9	15.3	40.0	19.0
OT83-4	40.0	8	+0.4	2.0	34	1.5	15.0	40.8	19.0
OT84-14	40.9	4	-0.5	2.2	32	1.6	17.5	40.8	19.4

* 130 Days After Planting

1984-1986 3-YEAR MEAN

No. of Tests	26	26	23	25	26	24	26	14	14
Dawson (0)	39.5	3	9-24.5*	2.0	31	1.7	15.2	39.7	19.9
Hodgson (I)	40.8	2	+6.4	2.1	36	1.7	16.3	39.6	19.8
McCall (00)	34.3	5	-10.4	1.7	27	1.9	15.2	39.5	19.5
M77-252	35.0	4	+1.0	2.1	29	1.8	18.3	44.2	17.2
OT83-4	40.9	1	+0.5	1.9	33	1.5	16.8	41.7	19.0

* 128 Days After Planting

UNIFORM TEST 0, 1986

YIELD (bu/a)

Strain	Mean 9 Tests	Bad Axe MI	Morris MN	Rosemount MN	Fargo ND	Ottawa ONT	Smithfield ONT	Elora ONT	Wilmot SD	Spooner WI
Dawson (0)	40.5	34.1	54.9	51.1	50.5	37.8	30.4	30.7	42.3	33.0
Hodgson 78 (I)	40.9	34.5	60.9	52.1	44.9	34.8	39.9	31.8	35.9	33.5
McCall (00)	37.2	28.9	50.1	46.1	46.4	32.5	37.5	32.2	30.9	29.9
M74-12	43.9	31.4	69.2	54.7	47.6	39.0	38.9	31.9	42.7	39.3
M77-252	35.1	29.2	42.8	51.2	42.6	29.7	29.8	26.7	33.7	30.6
M81-18	44.1	36.2	65.3	48.1	55.6	41.8	34.2	34.6	42.8	38.1
M81-27	41.6	33.2	56.1	54.8	51.6	36.9	34.0	31.3	43.2	33.6
M81-70	38.5	34.0	51.2	50.4	45.0	33.7	36.8	29.4	33.0	33.0
M81-76	40.2	34.5	53.7	49.8	51.4	27.2	36.4	30.5	44.3	33.8
M81-98	41.7	29.9	57.4	54.8	49.6	38.6	36.8	31.8	40.4	36.3
M81-571	42.3	37.0	63.8	55.3	48.8	34.7	37.7	31.8	42.0	30.0
M82-102	36.9	27.8	45.8	46.5	42.0	35.8	29.2	31.5	36.6	36.7
M82-317	44.0	33.4	63.3	47.2	53.3	42.3	39.4	33.7	39.8	38.5
M82-324	42.0	31.6	57.9	53.1	50.9	34.9	36.7	35.5	41.3	35.8
M82-387	41.6	36.6	59.8	53.9	49.8	40.6	34.1	31.8	36.5	30.9
M82-408	43.4	35.0	58.4	55.5	50.2	38.0	37.9	33.3	42.8	39.9
M82-545	41.2	33.3	61.5	53.5	48.0	35.5	33.1	33.0	37.4	35.8
M82-585	40.9	33.2	61.1	49.6	44.7	36.9	36.0	31.0	38.5	37.0
M82-601	42.1	29.8	62.2	50.3	48.5	40.5	37.9	33.7	39.7	36.1
M82-791	38.7	32.5	48.8	47.1	48.1	27.9	37.1	31.4	40.6	34.9
M82-806	39.5	35.9	55.1	47.4	40.7	33.3	35.7	30.3	40.6	36.6
M82-996	43.6	33.2	62.8	52.1	57.2	40.4	35.3	31.0	44.4	36.3
M82-1004	42.1	28.2	65.2	50.3	52.5	38.6	36.4	29.1	42.3	35.9
M82-1011	43.8	35.4	60.9	50.2	53.9	37.7	35.5	35.6	47.0	38.2
M82-1027	42.8	31.6	56.5	52.6	51.8	42.0	34.4	37.3	44.1	35.1
OT83-4	44.0	33.9	64.2	56.3	47.5	40.0	42.8	35.6	40.0	35.4
OT84-14	42.7	31.6	63.7	53.7	49.0	39.8	40.7	35.1	36.3	34.2
C.V. (%)		11.6	9.6	9.6	10.3	9.6	12.3	8.8	9.3	9.4
L.S.D. (5%)		5.4	9.2	8.1	8.3	5.0	6.3	3.9	6.1	5.3
Row Sp. (In.)		20	10	10	12	16	18	15	30	36
Rows/Plot		4	10	10	2	4	4	4	4	4
Reps		4	3	3	3	4	4	4	3	3

UNIFORM TEST 0, 1986

YIELD RANK

Strain	Yield Rank	Bad Axe MI	Morris MN	Rosemount MN	Fargo ND	Ottawa ONT	Smithfield ONT	Elora ONT	Wilmot SD	Spooner WI
Dawson (0)	20	9	21	15	10	13	25	22	9	22
Hodgson 78 (I)	18	7	12	12	23	20	3	13	24	21
McCall (00)	24	25	24	27	21	24	9	11	27	27
M74-12	4	21	1	6	19	9	5	12	8	2
M77-252	27	24	26	14	25	25	26	27	25	25
M81-18	1	3	2	22	2	3	21	6	6	5
M81-27	15	14	19	4	7	15	23	19	5	20
M81-70	23	10	23	16	22	22	11	25	26	22
M81-76	21	7	22	20	8	27	14	23	3	19
M81-98	14	22	17	4	13	10	11	13	15	9
M81-571	10	1	5	3	15	21	8	13	11	26
M82-102	25	27	27	26	26	17	27	17	21	7
M82-317	2	12	7	24	4	1	4	7	17	3
M82-324	13	18	16	10	9	19	13	4	12	13
M82-387	15	2	14	7	12	4	22	13	22	24
M82-408	7	6	15	2	11	12	6	9	6	1
M82-545	17	13	10	9	18	18	24	10	20	13
M82-585	18	14	11	21	24	15	16	20	19	6
M82-601	11	23	9	17	16	5	6	7	18	11
M82-791	22	17	25	25	17	26	10	18	13	17
M82-806	26	4	20	23	27	23	17	24	13	8
M82-996	6	14	8	12	1	6	19	20	2	9
M82-1004	11	26	3	17	5	10	14	26	9	12
M82-1011	5	5	12	19	3	14	18	2	1	4
M82-1027	8	18	18	11	6	2	20	1	4	16
OT83-4	2	11	4	1	20	7	1	2	16	15
OT84-14	9	18	6	8	14	8	2	5	23	18

UNIFORM TEST 0, 1986

MATURITY (Date)

Strain	Mean 7 Tests	Bad Axe MI	Morris MN	Rosemount MN	Fargo ND	Ottawa ONT*	Smithfield ONT	Elora ONT	Wilmot SD	Spooner WI
Dawson (0)	9-29.9	9-25	9-25	9-17	9-25	10-18		10-6	9-29	9-24
Hodgson 78 (I)	+6.1	+7	+6	+8	+9	+5		+6	+5	+5
McCall (00)	-10.3	0	-19	-10	-15	-20		-9	-11	-8
M74-12	+1.3	+2	0	+3	+1	+3		+2	+1	0
M77-252	+0.1	+2	-3	-5	+4	+1		+2	+1	0
M81-18	-3.7	+3	-3	-6	-8	-4		-6	-1	-5
M81-27	+3.0	+5	+1	+4	+5	+2		+3	+1	+2
M81-70	+2.4	+2	+2	+4	+4	+1		+2	+2	+1
M81-76	+1.6	+1	+1	+3	+1	+6		+3	+2	0
M81-98	+2.1	0	+1	+6	+3	+4		+3	+2	0
M81-571	+1.9	-1	+2	+2	+4	+6		+2	+3	+1
M82-102	+1.0	+6	-1	-3	+2	+2		+3	0	0
M82-317	+0.5	+2	0	-3	+1	+3		0	+2	+1
M82-324	+0.4	+3	+1	-2	+1	+1		-1	+1	0
M82-387	+0.1	+2	-1	-3	+1	0		+2	0	0
M82-408	+3.9	+4	+4	+7	+5	+5		+3	+3	+1
M82-545	+1.3	+2	+1	+3	+1	-1		+3	-1	0
M82-585	+2.9	+3	+3	+3	+5	+4		+4	+2	0
M82-601	-0.3	0	0	-4	+2	+1		0	0	0
M82-791	+4.1	+7	+1	+7	+4	+6		+7	+2	+1
M82-806	+2.4	+1	+3	+7	+1	+5		+2	+2	+1
M82-996	+2.0	+2	+2	0	+2	+5		+6	+1	+1
M82-1004	+3.4	+2	+2	+7	+4	+1		+5	+3	+1
M82-1011	+1.0	+5	0	-4	0	+1		+5	+1	0
M82-1027	+3.4	+3	+2	+6	+4	+6		+6	+2	+1
OT83-4	0.0	+1	+1	0	-1	-5		+1	+1	-3
OT84-14	+1.0	+2	+1	+2	+2	-8		-1	+2	-1
Date Planted	5-24	5-27	5-14	5-21	5-22	5-29		5-29	6-3	5-20
Days to Mature	126	121	134	123	126	142		130	118	127

* Not included in mean.

UNIFORM TEST 0, 1986

LODGING (Score)

Strain	Mean 8 Tests	Bad Axe MI	Morris MN	Rosemount MN	Fargo ND	Ottawa ONT	Smithfield ONT*	Elora ONT	Wilmot SD	Spooner WI
Dawson (0)	2.7	2.5	3.7	3.7	2.7	3.8	1.8	1.8	1.7	1.3
Hodgson 78 (I)	2.8	3.0	3.0	3.0	4.0	4.1	1.0	1.4	1.7	2.3
McCall (00)	2.0	1.2	2.0	2.7	3.3	3.7	1.0	1.1	1.0	1.0
M74-12	1.8	1.5	2.0	2.3	1.3	3.7	1.0	1.0	1.0	1.7
M77-252	3.0	2.2	3.3	4.0	4.7	4.4	1.0	2.1	1.0	2.0
M81-18	2.0	1.5	2.3	2.0	3.0	4.2	0.9	1.1	1.0	1.0
M81-27	2.0	1.5	2.0	2.7	2.0	4.1	1.0	1.3	1.0	1.7
M81-70	2.9	1.8	3.0	3.7	3.3	4.2	1.4	2.4	2.3	2.7
M81-76	2.4	2.3	3.0	3.0	2.0	4.7	1.1	1.4	1.0	1.7
M81-98	1.5	1.0	2.3	2.0	1.0	3.0	1.1	1.0	1.0	1.0
M81-571	2.8	2.3	3.7	3.7	3.0	4.3	1.3	2.1	1.3	2.3
M82-102	2.2	1.3	3.3	2.7	2.0	4.0	0.9	1.3	1.0	1.7
M82-317	2.1	1.7	2.3	2.7	2.3	3.4	1.1	1.4	1.0	2.0
M82-324	2.3	3.0	2.7	2.3	2.0	4.5	1.0	1.4	1.3	1.3
M82-387	2.4	1.8	2.7	3.7	2.3	4.0	1.3	1.6	1.3	1.7
M82-408	2.0	1.3	2.7	3.0	2.0	4.0	0.8	1.0	1.0	1.3
M82-545	1.9	2.3	2.0	3.0	1.0	3.4	1.1	1.5	1.0	1.3
M82-585	1.8	1.5	2.3	2.0	1.7	3.8	0.9	1.3	1.0	1.0
M82-601	2.7	1.8	4.0	4.0	3.0	3.4	1.5	1.6	1.7	2.0
M82-791	2.0	1.7	3.3	3.0	2.0	3.0	1.2	1.0	1.0	1.0
M82-806	2.0	1.7	2.7	3.0	2.0	3.1	1.0	1.1	1.0	1.3
M82-996	1.8	1.8	2.0	2.7	1.3	3.5	1.2	1.0	1.0	1.0
M82-1004	2.4	1.9	3.7	4.0	2.0	2.6	1.0	1.3	2.3	1.3
M82-1011	1.7	1.5	1.7	2.6	1.0	4.0	1.1	1.0	1.0	1.3
M82-1027	3.0	1.7	4.0	4.0	4.3	4.1	1.4	2.1	1.7	2.3
OT83-4	2.2	1.8	2.3	3.0	1.0	4.4	1.1	1.4	1.3	2.0
OT84-14	2.7	1.8	3.0	4.0	3.7	4.1	1.6	1.6	1.0	2.3

* Not included in mean.

UNIFORM TEST 0, 1986

PLANT HEIGHT (Inches)

Strain	Mean 9 Tests	Bad Axe MI	Morris MN	Rosemount MN	Fargo ND	Ottawa ONT	Smithfield ONT	Elora ONT	Wilmot SD	Spooner WI
Dawson (0)	35	34	42	45	38	35	27	29	35	34
Hodgson 78 (I)	39	39	47	50	40	32	30	31	41	39
McCall (00)	30	29	35	39	33	31	22	23	30	27
M74-12	35	33	44	40	37	34	25	26	38	35
M77-252	32	32	36	39	31	35	25	26	30	31
M81-18	34	33	41	40	35	32	24	26	38	34
M81-27	33	32	39	41	39	30	24	29	31	36
M81-70	37	34	45	47	41	35	27	30	35	37
M81-76	36	35	47	43	38	30	27	28	38	37
M81-98	33	31	42	40	38	28	24	26	37	35
M81-571	36	34	46	44	36	32	27	27	40	36
M82-102	35	31	43	47	37	30	25	30	38	37
M82-317	34	31	42	43	38	34	25	24	34	37
M82-324	36	37	44	45	40	33	27	28	37	37
M82-387	34	32	42	43	36	34	27	25	35	34
M82-408	34	33	42	41	36	35	22	25	36	35
M82-545	37	33	47	46	38	35	25	30	38	39
M82-585	37	31	47	47	39	33	27	28	42	37
M82-601	35	33	46	44	39	32	25	28	36	32
M82-791	38	36	50	49	42	30	28	29	40	40
M82-806	36	33	46	43	40	35	25	27	38	38
M82-996	35	34	44	45	39	30	25	27	34	37
M82-1004	37	32	48	47	40	32	29	29	37	37
M82-1011	34	31	41	43	35	34	23	26	37	34
M82-1027	38	34	50	47	43	34	26	31	39	35
OT83-4	36	35	46	39	36	31	28	31	38	36
OT84-14	35	30	42	45	37	34	27	27	34	37

UNIFORM TEST 0, 1986

SEED QUALITY (Score)

Strain	Mean 9 Tests	Bad Axe MI	Morris MN	Rosemount MN	Fargo ND	Ottawa ONT	Smithfield ONT	Elora ONT	Wilmot SD	Spooner WI
Dawson (0)	2.0		2.0	3.7	1.0	1.8	1.9	2.4	2.0	1.0
Hodgson 78 (I)	1.6		1.7	1.7	2.0	1.2	1.3	1.6	2.0	1.0
McCall (00)	1.9		1.3	2.3	2.2	1.3	1.7	3.3	2.0	1.0
M74-12	1.9		1.7	3.3	1.5	2.0	1.8	2.1	2.0	1.0
M77-252	1.8		1.7	2.0	1.8	2.0	2.0	2.0	2.0	1.0
M81-18	1.9		1.3	2.3	2.0	1.5	2.1	2.9	2.0	1.0
M81-27	2.1		2.0	3.7	1.0	1.7	2.0	3.1	2.0	1.0
M81-70	2.0		1.7	3.0	2.2	1.7	2.0	2.2	2.0	1.0
M81-76	2.1		2.0	3.7	1.8	2.0	2.0	2.5	2.0	1.0
M81-98	1.9		2.0	3.7	1.0	2.0	1.5	1.8	2.0	1.0
M81-571	2.1		2.0	3.3	2.2	2.0	2.0	2.5	2.0	1.0
M82-102	2.0		2.0	3.0	1.5	2.0	2.1	2.1	2.0	1.0
M82-317	1.6		1.7	2.3	1.0	1.8	1.2	1.8	2.0	1.0
M82-324	1.8		2.0	2.7	1.5	2.0	1.5	2.0	2.0	1.0
M82-387	2.0		2.0	3.0	2.3	1.8	2.0	2.1	2.0	1.0
M82-408	1.9		2.0	3.0	2.2	1.8	1.5	1.9	2.0	1.0
M82-545	1.9		2.0	3.0	1.0	2.0	2.1	1.9	2.0	1.0
M82-585	2.1		1.7	3.7	1.0	2.0	2.0	2.0	3.0	1.0
M82-601	2.0		2.0	3.7	1.0	2.0	1.7	2.4	2.0	1.0
M82-791	1.7		1.7	2.0	1.0	2.0	1.7	2.4	2.0	1.0
M82-806	2.0		1.7	3.0	2.3	1.7	2.0	2.3	2.0	1.0
M82-996	1.6		1.3	1.7	1.0	2.0	1.7	2.1	2.0	1.0
M82-1004	1.9		1.7	2.0	2.2	2.0	2.1	1.9	2.0	1.0
M82-1011	1.7		2.0	2.7	1.0	1.7	1.5	2.0	2.0	1.0
M82-1027	2.0		2.0	3.0	1.5	1.7	1.7	3.0	2.0	1.0
OT83-4	1.4		1.3	2.0	1.8	1.0	1.2	1.6	1.0	1.0
OT84-14	1.7		1.7	3.0	1.8	1.2	1.3	1.5	2.0	1.0

UNIFORM TEST 0, 1986

SEED SIZE (g/100)

Strain	Mean 9 Tests	Bad Axe MI	Morris MN	Rosemount MN	Fargo ND	Ottawa ONT	Smithfield ONT	Elora ONT	Wilmot SD	Spooner WI
Dawson (0)	14.1	12.8	15.8	14.9	14.5	13.4	14.2	10.5	16.1	15.0
Hodgson 78 (I)	14.7	14.6	15.8	15.9	15.4	14.2	14.2	11.9	16.2	14.0
McCall (00)	14.6	14.9	14.5	14.8	14.2	15.1	14.9	11.4	15.1	16.5
M74-12	16.3	15.7	17.8	18.0	17.0	14.8	16.5	11.7	17.8	17.3
M77-252	17.3	16.4	17.7	17.8	18.7	16.8	17.7	15.1	18.0	17.5
M81-18	15.4	14.7	17.2	16.7	15.8	14.2	15.5	11.1	16.6	16.4
M81-27	15.4	14.8	17.2	16.9	16.5	14.0	15.4	11.5	17.5	15.1
M81-70	15.1	14.9	17.1	16.4	15.5	13.6	16.3	10.7	16.1	14.9
M81-76	18.5	17.6	20.7	20.8	18.2	16.4	18.7	14.7	20.0	19.5
M81-98	14.3	12.5	17.0	16.1	15.5	13.3	13.7	10.2	15.1	15.2
M81-571	14.3	13.8	16.7	16.4	15.3	12.6	13.2	10.6	15.7	14.2
M82-102	16.8	15.7	18.2	18.3	17.9	14.0	17.1	13.4	18.7	17.8
M82-317	16.0	14.2	18.6	17.0	17.0	15.8	15.6	11.5	16.6	17.6
M82-324	14.9	13.8	17.0	15.9	15.8	14.2	14.3	11.3	15.8	15.8
M82-387	15.7	15.4	17.8	17.5	17.7	15.4	13.5	11.2	16.3	16.6
M82-408	16.4	15.2	18.2	16.9	17.6	16.1	16.2	12.8	17.7	16.8
M82-545	15.8	14.6	18.1	17.3	17.0	14.9	14.0	12.9	16.4	17.3
M82-585	14.3	13.5	16.0	15.1	14.8	13.7	14.3	10.3	15.8	15.1
M82-601	14.7	14.8	16.6	15.1	15.7	13.3	14.0	11.5	16.4	14.7
M82-791	14.7	13.7	16.2	14.9	16.0	13.9	15.4	11.5	15.5	15.1
M82-806	16.9	15.9	18.6	19.2	18.4	15.0	16.4	13.9	17.5	16.9
M82-996	13.8	12.2	15.6	14.7	14.7	13.3	13.6	10.1	15.3	14.7
M82-1004	12.6	11.6	13.8	12.8	14.3	12.6	11.8	9.5	13.7	13.4
M82-1011	15.0	14.3	16.5	15.4	16.3	14.7	14.4	10.4	16.4	16.5
M82-1027	15.4	14.3	16.2	15.9	16.8	15.7	14.5	11.5	18.3	15.6
OT83-4	14.1	13.3	15.7	14.6	15.1	14.2	13.7	9.9	14.3	15.7
OT84-14	16.4	16.0	17.0	15.7	16.8	16.4	17.6	14.3	18.1	15.8

PROTEIN (%)

Strain	Mean 5 Tests	Morris MN	Elora ONT	Fargo ND	Wilmot SD	Spooner WI
Dawson (0)	40.4	40.3	41.8	39.1	40.2	40.6
Hodgson 78 (I)	40.2	38.9	41.7	39.1	40.1	41.2
McCall (00)	39.5	39.5	39.5	39.7	39.5	39.8
M74-12	41.7	41.1	43.0	39.7	42.5	42.0
M77-252	44.4	44.0	44.9	44.2	44.4	44.5
M81-18	39.3	38.8	40.8	38.0	40.3	38.7
M81-27	40.4	40.3	41.7	39.6	39.4	41.0
M81-70	40.8	40.3	42.1	39.2	41.2	40.4
M81-76	41.7	41.8	43.5	40.2	42.2	41.0
M81-98	40.6	40.4	42.5	39.0	40.4	40.8
M81-571	40.6	39.8	43.0	39.9	40.2	40.1
M82-102	42.1	42.1	44.1	41.6	41.8	40.9
M82-317	40.6	41.1	41.2	40.4	40.2	40.3
M82-324	41.7	42.1	42.9	40.8	41.7	41.2
M82-387	41.0	40.8	43.5	39.7	41.0	40.0
M82-408	39.9	40.0	40.2	39.7	40.1	39.7
M82-545	41.1	41.2	43.0	40.1	40.1	41.0
M82-585	39.3	39.1	41.0	38.0	39.0	39.5
M82-601	40.7	40.5	41.5	39.5	40.9	40.9
M82-791	42.3	41.9	44.3	41.8	41.7	41.8
M82-806	43.0	42.4	44.2	41.4	43.9	43.0
M82-996	40.0	39.6	42.7	39.1	39.3	39.1
M82-1004	40.8	39.4	42.7	40.4	40.5	40.9
M82-1011	39.1	39.1	40.7	37.1	39.6	39.0
M82-1027	40.1	39.7	41.3	39.7	39.8	40.2
OT83-4	41.0	41.1	42.1	40.3	41.0	40.4
OT84-14	40.9	39.9	43.0	40.4	41.5	39.5

UNIFORM TEST 0, 1986

OIL (%)

Strain	Mean 5 Tests	Morris MN	Elora ONT	Fargo ND	Wilmot SD	Spooner WI
Dawson (0)	18.6	19.3	16.9	18.8	19.2	19.0
Hodgson 78 (I)	18.6	19.5	16.4	19.0	19.3	18.8
McCall (00)	18.8	19.5	18.1	18.3	19.2	19.1
M74-12	18.5	19.5	16.6	19.4	18.5	18.7
M77-252	16.2	17.3	14.6	15.9	16.8	16.4
M81-18	19.7	20.9	19.6	19.8	19.0	19.3
M81-27	18.9	19.9	17.2	19.1	19.6	18.5
M81-70	19.3	20.8	18.0	19.8	18.9	19.2
M81-76	18.5	19.5	17.0	19.1	18.6	18.4
M81-98	19.3	20.4	17.0	20.1	19.7	19.4
M81-571	18.6	19.8	17.0	18.9	18.7	18.8
M82-102	18.6	18.6	17.9	17.8	18.2	18.0
M82-317	18.3	19.1	17.2	18.0	18.1	18.9
M82-324	18.4	18.9	16.8	18.8	18.3	19.3
M82-387	18.5	19.6	17.3	19.2	19.6	19.6
M82-408	19.0	19.7	18.0	18.7	19.3	19.2
M82-545	18.5	19.2	17.0	18.6	19.1	18.8
M82-585	19.4	20.4	17.3	19.7	19.9	19.5
M82-601	19.0	19.9	17.8	19.4	18.8	19.0
M82-791	18.1	19.0	16.5	18.3	18.4	18.4
M82-806	17.8	18.7	16.6	18.4	17.6	17.6
M82-996	19.0	20.3	16.4	19.0	19.8	19.5
M82-1004	18.1	19.7	15.8	18.0	18.6	18.2
M82-1011	19.6	20.5	17.8	20.2	19.6	19.9
M82-1027	18.7	20.0	16.9	18.9	19.2	18.7
OT83-4	18.9	20.0	16.7	19.6	18.8	19.2
OT84-14	19.1	20.1	17.4	19.3	18.9	19.7

UNIFORM TEST I, 1986

Strain	Parentage	Previous Testing*	Generation Composited
BSR 101	L69U40-16-4 X A76-304020	2	F4
Dawson (0)	Evans X M63-217Y	-	F5
Elgin (II)	AP6(2YT) (F4)C1	2	F4
Hardin	Corsoy X Cutler 71	3	F3
Sibley (I)	M68-256 X Hodgson	4	F5
M81-77	M68-49-26 X M70-184	PTI	F5
M81-380	M71-127 X Century	PTI	F5
M81-382	M70-127 X Century	PTI	F5
M81-564	M69-36 X Weber	PTI	F5
W10186	Salut 216 X Amurskaja 41	PTI	F5

* Number of years in test or name of 1985 test.

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code		Chlorosis Score		Emergence Score	Shattering Score
			Ames	Lamberton	Ames	Manhattan
BSR 101	PGTDYIb	I	2.7	2	3	1
Dawson (0)	PGBDYY	I	2.0	2	1	-
Elgin (II)	PTBSYBL	I	3.8	4	5	1
Hardin	PGBDYY	I	3.2	4	2	1
Sibley (I)	WGBDYY	I	3.3	4	1	2
M81-77	WGBDYY	I	3.2	4	2	1
M81-380	PGBDYIb	I	2.7	2	2	1
M81-382	PTBDYBl	I	2.5	3	3	1
M81-564	WGBDYBL	I	2.7	2	1	1
W10186	PGBDYBf	I	2.5	3	5	1

Strain	BSR			BTS	PS	PSB	SMV
	Ames		St. Paul				
	Plant N %	Stem N %	Plant N %	Ames a Score	Lafayette a %	Lafayette N %	Lafayette a Score
BSR 101	80	18.3	40	3	16	8	4E
Dawson (0)	100	84.3	60	3	11	20	1
Elgin (II)	100	75.9	60	4	8	14	5E
Hardin	100	52.0	60	3	35	12	5E
Sibley (I)	100	60.5	80	4	14	16	1
M81-77	100	61.8	70	4	9	18	3M
M81-380	100	66.6	80	4	16	30	1
M81-382	100	70.9	70	4	17	28	5E
M81-564	100	75.6	60	3	8	10	3M
W10186	100	67.6	80	4	14	18	3M

UNIFORM TEST I, 1986

REGIONAL SUMMARY

Strain	Yield	Rank	Maturity	Lodging	Plant Height	Seed Quality	Seed Size	Composition	
								Protein	Oil
No. of Tests	13	13	12	13	13	10	12	4	4
	bu/a	No.	Date	Score	In.	Score	g/100	%	%
BSR 101	47.2	2	+6.0	1.9	36	2.1	15.8	39.9	19.3
Dawson (0)	42.8	10	-7.4	2.1	31	2.0	15.2	39.8	20.6
Elgin (II)	46.7	4	+7.8	2.2	34	2.1	16.3	39.9	19.4
Hardin	48.8	1	+4.2	2.7	39	2.0	14.3	40.0	19.7
Sibley (I)	46.0	5	9-20.6*	2.5	35	1.9	17.6	40.5	20.2
M81-77	44.5	7	+0.6	2.0	32	2.1	17.8	41.3	19.7
M81-380	43.6	8	-2.4	2.0	33	2.0	19.0	41.4	19.9
M81-382	46.8	3	-1.6	1.7	36	2.2	20.1	42.4	19.2
M81-564	43.3	9	+0.1	2.0	34	2.2	11.6	39.2	20.0
W10186	45.1	6	-3.1	1.7	35	2.0	15.5	39.9	20.3

*123 Days After Planting

1984-1986, 3-YEAR MEAN

Strain	Yield	Rank	Maturity	Lodging	Plant Height	Seed Quality	Seed Size	Protein	Oil
No. of Tests	40	40	37	40	40	31	37	12	12
	bu/a	No.	Date	Score	In.	Score	g/100	%	%
BSR 101	43.1	3	+5.2	1.6	33	2.1	17.0	40.0	20.1
Elgin (II)	43.9	1	+6.3	1.8	32	2.2	16.9	39.8	20.1
Hardin	43.6	2	+3.3	2.1	36	2.0	15.1	39.9	20.4
Sibley (II)	41.0	4	9-20.0*	1.9	32	1.8	18.4	40.2	21.1

*122 Days After Planting

None of the entries in the 1986 test were higher in average seed yield than Hardins. All of the entries were resistant to shattering and all but BSR 101 appeared to be quite susceptible to brown stem rot. The strains M81-77, M81-380, and M81-382 are all resistant but M81-564 is susceptible to PR race 1, based on Minnesota tests.

UNIFORM TEST I, 1986

YIELD (bu/a)

Strain	Mean 13 Tests	Corwith,IA	Spencer,IA	Lafayette,IN	Lamberton,MN	Waseca,MN
BSR 101	47.2	48.8	42.7	55.1	58.5	51.6
Dawson (0)	42.8	41.1	38.5	45.8	63.6	53.1
Elgin (II)	46.7	40.5	39.7	55.5	58.1	55.6
Hardin	48.8	51.0	41.9	57.9	70.2	56.2
Sibley (I)	46.0	43.8	42.8	48.9	66.2	53.3
M81-77	44.5	45.7	41.8	48.8	57.8	52.8
M81-380	43.6	45.4	41.9	49.1	64.2	51.0
M81-382	46.8	45.5	45.3	51.8	66.4	52.5
M81-564	43.3	43.1	39.1	56.4	60.1	51.1
W10186	45.1	42.0	42.2	53.8	64.5	56.3
C.V. (%)		5.8	4.8	5.4	12.0	7.0
L.S.D. (5%)		3.7	2.8	4.6	11.4	6.4
Row sp (in)		27	27	24	10	10
Rows/plot		4	4	4	10	10
Reps		4	4	3	3	3

Strain	Britton, MI	Saginaw, MI	Mead, NE	London, Ont.
BSR 101	53.6	32.5	48.9	42.4
Dawson (0)	41.8	29.2	33.5	36.9
Elgin (II)	54.9	34.9	48.0	41.0
Hardin	47.4	30.6	41.9	43.0
Sibley (I)	47.7	29.1	35.9	40.6
M81-77	47.5	28.9	36.4	41.0
M81-380	44.1	29.8	36.6	37.9
M81-382	46.1	32.8	43.3	39.5
M81-564	43.3	27.5	38.4	31.8
W10186	44.3	31.7	37.1	35.2
C.V. (%)	9.3	13.0	7.2	9.0
L.S.D. (5%	6.3	NS	4.9	5.1
Row sp (in)	20	20	30	14.8
Rows/plot	4	4	4	4
Reps	4	4	3	4

UNIFORM TEST I, 1986

YIELD (bu/a)

Strain	Ridgetown, Ont.	Brookings, SD	Wilmot, SD	Arlington, WI
BSR 101	45.1	47.0	43.8	43.2
Dawson (0)	40.8	40.6	43.4	47.5
Elgin (II)	47.5	45.7	44.5	40.8
Hardin	48.9	48.7	45.5	51.2
Sibley (I)	50.0	45.9	45.2	48.1
M81-77	49.7	42.0	38.7	47.9
M81-380	47.2	45.6	42.4	41.6
M81-382	49.2	47.1	47.7	41.2
M81-564	39.2	43.2	45.6	44.6
W10186	46.3	42.6	43.2	47.7
C.V. (%)	9.3	7.5	7.7	6.9
L.S.D. (5%)	7.4	NS	NS	5.2
Row sp (in)	24	30	30	30
Rows/plot	4	4	4	4
Reps	3	3	3	3

YIELD RANK

Strain	Yield Rank	Corwith,IA	Spencer,IA	Lafayette,IN	Lamberton,MN	Waseac,MN
BSR 101	2	2	3	4	8	8
Dawson (0)	10	9	10	10	6	5
Elgin (II)	4	10	8	3	9	3
Hardin	1	1	5	1	1	2
Sibley (I)	5	6	2	8	3	4
M81-77	7	3	7	9	10	6
M81-380	8	5	5	7	5	10
M81-382	3	4	1	6	2	7
M81-564	9	7	9	2	7	9
W10186	6	8	4	5	4	1

UNIFORM TEST I, 1986

YIELD RANK

Strain	Britton, MI	Saginaw, MI	Mead, NE	London, Ont.
BSR 101	2	3	1	2
Dawson (0)	10	7	10	8
Elgin (II)	1	1	2	3
Hardin	5	5	4	1
Sibley (I)	3	8	9	5
M81-77	4	9	8	3
M81-380	8	6	7	7
M81-382	6	2	3	6
M81-564	9	10	5	10
W10186	1	4	6	9

YIELD RANK

Strain	Ridgetown, Ont.	Brookings, SD	Wilmot, SD	Arlington, WI
BSR 101	8	3	6	7
Dawson (0)	9	10	7	5
Elgin (II)	5	5	5	10
Hardin	4	1	3	1
Sibley (I)	1	4	4	2
M81-77	2	9	10	3
M81-380	6	6	9	8
M81-382	3	2	1	9
M81-564	10	7	2	6
W10186	7	8	8	4

MATURITY (date)

Strain	Mean 12 Tests	Corwith,IA	Spencer,IA	Lafayette,IN	Lamberton,MN	Waseca,MN
BSR 101	+6.0	+7		+5	+8	+7
Dawson (0)	-7.4	-9		-5	-8	-11
Elgin (II)	+7.8	+8		+12	+7	+5
Hardin	+4.2	+4		+7	+5	+3
Sibley (I)	9-20.6	9-13		8-28	9-18	9-20
M81-77	+0.6	0		0	-1	-1
M81-380	-2.4	-5		+4	-4	-7
M81-382	-1.6	-4		0	-5	-6
M81-564	+0.1	-2		+3	-1	-1
W10186	-3.1	-6		-1	-8	-6
Date Planted	5-21	5-21		5-23	5-13	5-6
Days to Mature	123	123		98	128	137

UNIFORM TEST I, 1986

MATURITY (date)

Strain	Britton, MI	Saginaw, MI	Mead, NE	London, Ont.
BSR 101	+6	+9	+1	+6
Dawson (0)	-4	-2	-9	-9
Elgin (II)	+10	+6	+11	+7
Hardin	+4	+4	+2	+4
Sibley (I)	9-8	10-1	9-10	9-19
M81-77	+2	0	-2	+4
M81-380	-1	-2	-6	-4
M81-382	-1	+4	-6	-4
M81-564	-1	+2	-3	+1
W10186	-2	+1	-7	-2
Date Planted	5-10	5-30	5-21	5-14
Days to Mature	121	124	112	128

MATURITY (date)

Strain	Ridgetown, Ont.	Brookings, SD	Wilmot, SD	Arlington, WI
BSR 101	+5	+5	+4	+9
Dawson (0)	-6	-7	-7	-12
Elgin (II)	+6	+4	+7	+10
Hardin	+3	+2	+3	+9
Sibley (I)	9-23	10-1	10-6	10-10
M81-77	0	0	+1	+4
M81-380	-1	-2	-3	+2
M81-382	0	-1	-2	+6
M81-564	0	-1	-3	+7
W10186	-1	-3	-2	0
Date Planted	5-30	5-29	6-3	5-21
Days to Mature	116	125	125	142

UNIFORM TEST I, 1986

LODGING (Score)

Strain	Mean 13 Tests	Corwith,IA	Spencer,IA	Lafayette,IN	Lamberton,MN	Waseca,MN
BSR 101	1.9	1.6	2.2	1.2	4.3	1.0
Dawson (0)	2.1	1.9	2.4	1.2	3.7	2.0
Elgin (II)	2.2	2.2	2.4	2.2	5.0	1.7
Hardin	2.7	2.1	3.0	2.8	5.0	2.0
Sibley (I)	2.5	3.0	2.6	2.0	5.0	2.3
M81-77	2.0	2.3	2.1	1.0	4.7	2.0
M81-380	2.0	1.7	2.3	1.0	4.0	1.3
M81-382	1.7	1.6	2.2	1.0	2.7	1.7
M81-564	2.0	1.7	2.5	1.2	4.0	2.0
W10186	1.7	1.6	2.1	1.3	3.0	1.0

Strain	Britton, MI	Saginaw, MI	Mead, NE	London, Ont.
BSR 101	1.3	2.5	1.0	1.0
Dawson (0)	1.0	3.0	1.7	1.0
Elgin (II)	1.5	3.5	1.2	1.0
Hardin	2.0	3.8	2.0	1.0
Sibley (I)	1.8	4.2	2.0	1.0
M81-77	1.5	3.8	1.0	1.0
M81-380	1.0	3.8	1.0	1.0
M81-382	1.0	2.5	1.0	1.0
M81-564	1.0	3.0	1.7	1.0
W10186	1.0	3.0	1.3	1.0

Strain	Ridgetown, Ont.	Brookings, SD	Wilmot, SD	Arlington, WI
BSR 101	1.0	2.0	1.7	3.7
Dawson (0)	1.0	1.7	2.0	4.2
Elgin (II)	1.0	2.3	1.3	3.5
Hardin	2.0	2.3	2.7	4.0
Sibley (I)	1.0	1.7	1.7	4.2
M81-77	1.0	1.0	1.0	3.8
M81-380	1.3	2.3	1.0	3.3
M81-382	1.0	2.3	1.3	3.0
M81-564	1.0	2.0	1.3	3.8
W10186	1.0	2.0	1.3	3.0

UNIFORM TEST I, 1986

PLANT HEIGHT (Inches)

Strain	Mean 13 Tests	Corwith,IA	Spencer,IA	Lafayette,IN	Lamberton,MN	Waseca,MN
BSR 101	36	38	35	37	43	43
Dawson (0)	31	30	28	27	35	37
Elgin (II)	34	34	32	34	38	42
Hardin	39	40	37	41	49	42
Sibley (I)	35	35	34	35	44	42
M81-77	32	32	32	29	37	34
M81-380	33	33	31	29	39	40
M81-382	36	35	34	35	43	43
M81-564	34	32	32	32	39	41
W10186	35	34	32	35	39	41

Strain	Britton, MI	Saginaw, MI	Mead, NE	London, Ont.
BSR 101	33	32	36	31
Dawson (0)	26	30	28	29
Elgin (II)	32	32	34	31
Hardin	34	38	37	32
Sibley (I)	28	35	35	30
M81-77	29	32	27	30
M81-380	28	31	30	28
M81-382	33	33	35	31
M81-564	29	33	32	27
W10186	30	35	32	31

Strain	Ridgetown, Ont.	Brookings, SD	Wilmot, SD	Arlington, WI
BSR 101	29	36	41	37
Dawson (0)	22	29	37	41
Elgin (II)	28	33	38	38
Hardin	33	41	43	45
Sibley (I)	29	31	38	43
M81-77	28	32	34	38
M81-380	28	34	38	39
M81-382	29	34	38	41
M81-564	25	38	38	39
W10186	29	34	39	43

UNIFORM TEST I, 1986

SEED QUALITY (Score)

Strain	Mean 10 Tests	Corwith, IA	Spencer, IA	Lafayette, IN	Lamberton, MN	Waseca, MN
BSR 101	2.1	2.0		1.5	2.0	3.3
Dawson (O)	2.0	2.0		1.5	2.7	2.3
Elgin (II)	2.1	2.0		1.0	1.7	2.7
Hardin	2.0	1.0		1.0	1.7	3.0
Sibley (I)	1.9	1.0		1.5	2.0	3.7
M81-77	2.1	1.0		1.5	2.0	3.3
M81-380	2.0	2.0		2.0	2.3	2.7
M81-382	2.2	2.0		1.0	1.7	3.0
M81-564	2.2	3.0		1.5	1.7	3.0
W10186	2.0	2.0		1.5	2.3	2.7

Strain	Britton, MI	Saginaw, MI	Mead, NE	London, Ont.
BSR 101			2.7	2.6
Dawson (O)			2.2	1.5
Elgin (II)			2.0	2.0
Hardin			2.0	2.1
Sibley (I)			2.2	2.0
M81-77			2.0	2.5
M81-380			2.7	1.5
M81-382			2.3	1.9
M81-564			1.5	2.2
W10186			2.0	1.5

Strain	Ridgetown, Ont.	Brookings, SD	Wilmot, SD	Arlington, WI
BSR 101	1.0	2.0	2.0	2.0
Dawson (O)	1.0	2.0	1.0	4.0
Elgin (II)	2.0	3.0	4.0	1.0
Hardin	2.0	2.0	3.0	2.0
Sibley (I)	1.0	2.0	2.0	2.0
M81-77	2.0	2.0	3.0	2.0
M81-380	1.0	2.0	2.0	2.0
M81-382	2.0	3.0	3.0	2.0
M81-564	1.0	3.0	2.0	3.0
W10186	2.0	2.0	2.0	2.0

UNIFORM TEST I, 1986

SEED SIZE (g/100)

Strain	Mean 12 Tests	Corwith,IA	Spencer,IA	Lafayette,IN	Lamberton,MN	Waseca,MN
BSR 101	15.8	15.7		14.9	16.6	15.4
Dawson (0)	15.2	13.8		13.9	17.0	14.4
Elgin (II)	16.3	15.4		13.1	17.3	15.1
Hardin	14.3	14.2		13.4	14.6	14.6
Sibley (I)	17.6	16.8		15.9	19.5	17.3
M81-77	17.8	17.7		17.3	18.3	17.7
M81-380	19.0	18.0		19.8	19.0	18.3
M81-382	20.1	19.2		18.3	20.6	18.9
M81-564	11.6	11.1		10.8	12.0	11.2
W10186	15.5	14.6		15.0	15.5	14.7

Strain	Britton, MI	Saginaw, MI	Mead, NE	London, Ont.
BSR 101	17.0	15.5	17.8	14.4
Dawson (0)	15.6	15.5	15.8	14.2
Elgin (II)	16.8	16.3	16.4	15.5
Hardin	14.8	14.1	14.9	13.8
Sibley (I)	18.9	15.7	18.4	16.8
M81-77	18.6	15.0	19.5	16.8
M81-380	19.0	17.1	18.6	18.7
M81-382	21.1	18.3	20.1	20.9
M81-564	11.3	12.8	12.1	10.8
W10186	15.9	15.4	15.6	14.6

Strain	Ridgetown, Ont.	Brookings, SD	Wilmot, SD	Arlington, WI
BSR 101	15.9	16.2	15.5	14.5
Dawson (0)	16.9	15.3	14.9	15.3
Elgin (II)	17.1	17.2	17.9	16.9
Hardin	15.0	14.9	14.3	13.1
Sibley (I)	18.0	18.3	18.3	17.6
M81-77	18.3	17.8	17.9	18.2
M81-380	20.5	20.6	20.3	17.8
M81-382	22.3	20.6	20.9	19.5
M81-564	11.7	12.0	11.7	12.0
W10186	16.4	15.9	17.0	15.6

UNIFORM TEST I, 1986

PROTEIN (%)

Strain	Mean 4 Tests	Waseca, MN	London, Ont.	Brookings, SD	Arlington, WI
BSR 101	39.9	37.0	40.7	41.3	40.6
Dawson (O)	39.8	37.8	41.2	40.1	40.0
Elgin (II)	39.9	36.8	40.3	40.4	42.0
Hardin	40.0	37.3	41.0	41.3	40.4
Sibley (I)	40.5	38.6	41.4	41.0	40.8
M81-77	41.3	39.4	42.3	41.9	41.6
M81-380	41.4	40.4	41.6	41.7	42.0
M81-382	42.4	36.5	44.1	43.6	45.2
M81-564	39.2	37.5	39.8	39.2	40.2
W10186	39.9	37.0	41.4	40.3	40.7

OIL (%)

BSR 101	19.3	21.2	19.1	18.6	18.3
Dawson (O)	20.6	21.6	20.1	20.0	20.7
Elgin (II)	19.4	21.7	19.7	18.1	18.2
Hardin	19.7	21.7	19.7	18.5	19.0
Sibley (I)	20.2	20.9	19.9	19.4	20.4
M81-77	19.7	20.7	19.8	18.9	19.5
M81-380	19.9	20.0	20.2	19.7	19.5
M81-382	19.2	21.1	18.7	18.6	18.4
M81-564	20.0	21.4	19.5	19.2	19.7
W10186	20.3	20.9	19.8	20.2	20.1

'reliminary Test I, 1986

Strain	Parentage	Generation Composited
Dawson (O)	Evans X M63-217Y	F5
Elgin (II)	AP6(2YT) (F4)C1	F4
Sibley (I)	M68-256 X Hodgson	F5
A85-191029	A80-245022 X A80-344003	F5
A85-191030	Pride B203 X Asgrow A1937	F5
A85-191033	Pride B203 X A79-135010	F5
A85-192028	Pride B203 X Midwest Oilseeds 3010	F5
A85-192034	A80-344003 X Asgrow A1937	F5
A85-193012	A80-247007 X A80-143015	F5
A85-193020	Asgrow A1937 X Tri Valley Charger III	F5
A85-193023	A79-135010 X Asgrow A1937	F5
A85-193033	Pride B203 X A81-157024	F5
A85-194007	Hofler Censoy X A80-143015	F5
A85-194010	Hofler Censoy X A80-143015	F5
A85-194012	MRC Cheyenne X A80-143015	F5
A85-195005	A80-149008 X Midwest Oilseeds 2050	F5
A85-195013	A79-334010 X A79-131010	F5
A85-291010	Midwest Oilseeds 3010 X Asgrow A1937	F5
M82-106	M73-105 X Vickery	F5
M82-118	M74-69 X Wells II	F5
M82-559	Vickery X Century	F5
M82-772	M68-772 X M70-597	F5
M82-776	M68-256 X M70-597	F5
M82-808	M71-52 X Wells II	F5
M82-946	M74-69 X A77-112008	F5
OX Hodgson 1c Hm	Hodgson[3] X M75-2	BC6 F3

Many of the lines in this test matured too late for continued testing in Group I (Sibley+4) and should be moved to Group II for further evaluation. Several strains had good resistance to iron chlorosis in both the Ames and Lamberton tests. All of the Minnesota strains were resistant to PR race 1 based on Minnesota tests. The strain OX Hodgson 1c Hm has the Rps1-c gene for PR resistance and the HM gene for tolerance to metribrezin.

PRELIMINEARY TEST I, 1986

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code		Chlorosis Score Ames	Chlorosis Score Lamberton	Shattering Score Manhattan
Dawson (0)	PGBDYY	I	2.0	2	1
Elgin (II)	PTBDYBl	I	3.8	4	1
Sibley (I)	WGBDYY	I	3.3	4	2
A85-191029	WTBDYBr	I	3.8	4	1
A85-191030	PGBDYBf	I	4.0	4	1
A85-191033	WTTDYBr	I	4.0	5	2
A85-192028	WG+TBDYY	I	4.0	5	2
A85-192034	W+PTBDYBr	I	2.8	3	2
A85-193012	WTBDYBr	I	2.0	4	1
A85-193020	PTBDYBr	I	4.0	3	1
A85-193023	W+PTTDYB+Br	I	3.7	4	1
A85-193033	WGBDYY	I	3.8	5	2
A85-194007	PGBDYIb	I	2.5	2	1
A85-194010	PGBDYY	I	2.3	2	1
A85-194012	W+BDYY	I	2.5	3	1
A85-195005	PGB+TDYIb	I	2.8	4	1
A85-195013	PTBDYBr	I	3.5	4	1
A85-291010	PGBSYBr	I	3.3	3	1
M82-106	WGBDYBf	I	2.5	2	1
M82-118	P+WGBDYY	I	3.0	2	1
M82-559	PGBDYY	I	3.2	4	1
M82-772	PGBDYY	I	2.2	2	-
M82-776	PGBDYY	I	2.2	3	-
M82-808	PGBSYGr	I	3.3	5	1
M82-946	PGBDYY	I	3.2	5	1
OX Hodgson lc Hm	PGBDYBf	I	2.3	2	2

PRELIMINEARY TEST I, 1986

DISEASE DATA

	BSR			PS	PSB	SMV
	Ames		St. Paul			
	Plant	Stem	Plant	Lafayette		
	N	N	N	a	N	a
Strain	%	%	%	%	%	Score
Dawson (0)	100	74.3	60	11	20	1
Elgin (II)	100	72.3	60	8	14	5E
Sibley (I)	100	54.8	80	14	16	1
A85-191029	100	52.0	50	12	22	5E
A85-191030	100	50.6	50	27	24	3E
A85-191033	100	55.0	50	9	26	5E
A85-192028	100	64.4	50	14	6	5E
A85-192034	100	59.6	50	21	16	4E
A85-193012	100	64.8	60	0	16	5E
A85-193020	100	41.3	70	7	16	4M
A85-193023	100	51.6	50	49	26	5E
A85-193033	100	51.5	50	18	4	4E
A85-194007	100	81.1	60	16	10	3E
A85-194010	100	64.3	50	19	14	4E
A85-194012	100	68.7	50	4	34	5E
A85-195005	90	31.8	30	21	24	4M
A85-195013	100	78.5	50	23	6	4E
A85-291010	100	60.3	50	26	10	5E
M82-106	100	87.2	60	37	22	1
M82-118	100	95.8	70	22	18	1
M82-559	100	92.8	60	6	32	3E
M82-772	100	86.8	-	23	18	2M
M82-776	100	91.7	60	12	16	2M
M82-808	100	86.0	70	31	34	3M
M82-946	100	82.6	80	26	18	4E
OX Hodgson lc Hm	100	97.1	60	1	14	3E

PRELIMINARY TEST I, 1986

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 6 Score	Seed Size 7 g/100	Composition Protein 3 %	Oil 3 %
Dawson (0)	41.8	24	-6.7	2.6	33	2.4	14.6	39.0	21.2
Elgin (II)	44.3	15	+8.6	2.5	35	2.3	16.5	39.7	19.3
Sibley (I)	44.1	19	9-24.3*	2.7	36	2.2	17.4	40.5	19.8
A85-191029	46.7	5	+8.1	2.3	37	2.4	13.7	41.3	18.3
A85-191030	43.4	23	+2.7	2.4	36	2.5	14.5	40.4	19.9
A85-191033	46.4	8	+4.9	2.5	36	2.4	15.7	40.7	19.4
A85-192028	46.3	9	+7.7	2.4	37	2.5	14.3	40.8	18.8
A85-192034	47.8	3	+5.7	1.9	35	1.9	15.6	41.5	19.1
A85-193012	43.8	22	+9.3	3.0	40	2.0	13.6	39.0	18.3
A85-193020	47.3	4	+7.9	2.7	38	2.1	17.1	40.4	19.5
A85-193023	48.6	2	+6.1	2.6	34	2.5	15.7	39.7	19.9
A85-193033	43.9	21	+6.1	2.4	38	2.0	15.5	41.9	18.8
A85-194007	41.1	26	+9.4	2.5	38	2.6	15.4	39.7	19.2
A85-194010	41.8	24	+9.6	2.9	37	2.8	15.5	39.8	19.5
A85-194012	44.5	14	+9.3	2.7	38	2.5	13.7	39.3	18.8
A85-195005	46.7	5	+8.9	2.5	39	2.2	14.2	40.8	20.3
A85-195013	44.3	15	+9.0	3.0	38	2.1	16.3	40.6	19.4
A85-291010	48.9	1	+6.9	2.4	37	1.9	15.6	40.2	19.3
M82-106	45.3	11	+1.1	1.9	33	2.3	15.7	41.5	19.4
M82-118	45.3	11	+0.3	1.8	36	1.9	15.0	40.3	20.0
M82-559	44.6	13	+0.4	1.7	32	2.0	16.8	42.3	18.7
M82-772	44.3	15	+0.0	2.2	37	2.3	17.1	42.4	18.9
M82-776	44.3	15	-1.7	2.1	36	2.5	17.2	41.5	20.1
M82-808	45.7	10	+2.6	2.3	38	2.0	17.3	40.4	19.5
M82-946	46.7	5	+2.6	1.9	35	2.3	16.9	41.9	18.6
OX Hodgson 1c Hm	44.0	20	-3.0	2.2	35	2.2	15.0	39.9	20.0

* 126 days after planting.

PRELIMINARY TEST I, 1986

YIELD (bu/a)

Strain	Mean 8 Tests	Corwith IA	Spencer IA	Saginaw MI	Lamber-ton MN	Waseca MN	Ridge-town ONT	Brookings SD	Arling-ton WI
Dawson (0)	41.8	41.6	38.2	29.7	37.8	52.5	46.6	43.6	44.1
Elgin (II)	44.3	43.5	43.3	37.1	46.3	52.1	41.6	48.7	42.1
Sibley (I)	44.1	47.4	43.4	29.4	45.7	48.6	43.4	45.1	49.6
A85-191029	46.7	48.9	44.6	34.7	50.3	54.4	51.2	50.2	39.6
A85-191030	43.4	49.3	46.6	30.1	57.0	52.1	48.8	46.1	44.0
A85-191033	46.4	48.1	44.8	34.0	47.0	54.8	46.4	49.2	47.0
A85-192028	46.3	50.8	44.6	31.2	48.2	53.6	50.4	47.8	43.6
A85-192034	47.8	52.0	44.2	37.6	51.2	54.5	47.4	50.4	44.9
A85-193012	43.8	43.1	41.3	35.9	40.6	49.1	45.6	48.3	46.3
A85-193020	47.3	55.0	41.2	34.2	55.0	51.1	44.3	52.5	44.8
A85-193023	48.6	52.3	48.9	33.2	47.8	54.8	48.5	53.1	50.0
A85-193033	43.9	49.4	41.8	32.5	44.5	48.0	48.4	43.9	42.3
A85-194007	41.1	42.3	40.8	29.4	40.8	47.1	45.8	42.7	40.0
A85-194010	41.8	40.4	42.0	29.4	29.6	45.9	50.4	51.4	45.1
A85-194012	44.5	47.7	45.4	35.5	39.0	44.6	48.2	46.4	48.8
A85-195005	46.7	51.6	43.8	35.0	42.6	57.6	50.7	47.4	44.6
A85-195013	44.3	46.0	39.5	38.9	41.9	51.0	48.1	44.6	44.4
A85-291010	48.9	53.0	45.4	33.8	49.2	54.4	50.0	53.3	52.0
M82-106	45.3	44.9	44.3	34.4	50.0	49.1	50.2	45.1	44.2
M82-118	45.3	49.8	41.4	33.8	48.4	50.1	51.4	44.1	43.4
M82-559	44.6	49.0	42.4	31.6	47.0	52.1	49.0	40.7	44.9
M82-772	44.3	49.1	41.9	30.0	47.0	47.5	46.9	45.0	47.3
M82-776	44.3	49.5	41.8	28.4	43.5	48.7	50.8	46.6	45.4
M82-808	45.7	47.3	43.4	31.6	49.2	54.8	52.0	41.6	46.0
M82-946	46.7	49.6	44.2	38.5	55.1	49.8	44.5	43.1	48.4
OX Hodgson 1c Hm	44.0	44.8	41.6	34.0	50.0	46.4	41.8	45.5	48.0
C.V. (%)		5.2	5.0	9.3	7.3	8.7	7.9	9.1	5.13
L.S.D. (5%)		4.9	4.2	NS	7.8	9.1	7.8	NS	4.8
Row Sp. (in)		27	27	20	30	30	24	30	30
Rows/Plot		4	4	4	2	2	4	4	4
Reps		2	2	2	2	2	2	2	2

PRELIMINARY TEST I, 1986

YIELD RANK

Strain	Yield Rank	Corwith IA	Spencer IA	Saginaw MI	Lamber-ton MN	Waseca MN	Ridge-town ONT	Brookings SD	Arling-ton WI
Dawson (0)	24	25	26	22	25	9	18	22	19
Elgin (II)	15	22	14	4	16	10	26	8	24
Sibley (I)	19	17	12	25	17	20	24	16	3
A85-191029	5	14	6	8	5	6	3	6	26
A85-191030	23	11	2	20	1	10	11	14	20
A85-191033	8	15	5	11	13	2	19	7	8
A85-192028	9	6	6	19	11	8	6	10	21
A85-192034	3	4	9	3	4	5	16	5	13
A85-193012	22	23	22	5	23	17	21	9	9
A85-193020	4	1	23	10	3	13	23	3	15
A85-193023	2	3	1	15	12	2	12	2	2
A85-193033	21	10	18	16	18	21	13	21	23
A85-194007	26	24	24	23	22	23	20	24	25
A85-194010	24	26	16	23	26	25	6	4	12
A85-194012	14	16	3	6	24	26	14	13	4
A85-195005	5	5	11	7	20	1	5	11	16
A85-195013	15	19	25	1	21	14	15	19	17
A85-291010	1	2	3	13	8	6	9	1	1
M82-106	11	20	8	9	6	17	8	17	18
M82-118	11	7	21	13	10	15	2	20	22
M82-559	13	13	15	17	13	10	10	26	13
M82-772	15	12	17	21	13	22	17	18	7
M82-776	15	9	18	26	19	19	4	12	11
M82-808	10	18	12	17	8	2	1	25	10
M82-946	5	8	9	2	2	16	22	23	5
OX Hodgson 1c Hm	20	21	20	11	6	24	25	15	6

PRELIMINARY TEST I, 1985

MATURITY (Date)

Strain	Mean 7 Tests	Corwith IA	Spencer IA	Saginaw MI	Lamber-ton MN	Waseca MN	Ridge-town ONT	Brookings SD	Arling-ton WI
Dawson (0)	-6.7	-8		+1	-10	-8	-7	-8	-7
Elgin (II)	+8.6	+9		+12	+6	+7	+8	+5	+13
Sibley (I)	9-24.3	9-11		9-29	9-20	9-19	9-23	10-1	10-7
A85-191029	+8.1	+8		+10	+9	+7	+4	+6	+13
A85-191030	+2.7	+4		+5	-1	+4	0	0	+7
A85-191033	+4.9	+6		+5	+5	+7	+3	+3	+5
A85-192028	+7.7	+6		+12	+7	+6	+4	+6	+13
A85-192034	+5.7	+6		+10	+5	+5	+4	+5	+5
A85-193012	+9.3	+10		+13	+9	+8	+4	+7	+14
A85-193020	+7.9	+9		+13	+5	+7	+5	+6	+10
A85-193023	+6.1	+7		+9	+2	+6	+6	+3	+10
A85-193033	+6.1	+6		+9	+4	+5	+4	+4	+11
A85-194007	+9.4	+8		+12	+9	+8	+10	+5	+14
A85-194010	+9.6	+11		+14	+8	+7	+6	+8	+13
A85-194012	+9.3	+10		+12	+9	+8	+7	+5	+14
A85-195005	+8.9	+10		+13	+9	+8	+4	+6	+12
A85-195013	+9.0	+12		+12	+7	+7	+6	+7	+12
A85-291010	+6.9	+8		+14	+7	+6	-1	+5	+9
M82-106	+1.1	+1		+3	-7	+1	0	+1	+9
M82-118	+0.3	+1		+2	-3	-1	0	0	+3
M82-559	+0.4	+1		+3	-5	-6	0	+1	+9
M82-772	+0.0	+0		+2	-5	-5	0	-1	+9
M82-776	-1.7	-2		+3	-6	-6	+1	-2	0
M82-808	+2.6	+2		+1	+2	+1	+2	+1	+9
M82-946	+2.6	+2		+5	-2	-1	+4	+1	+9
OX Hodgson 1c Hm	-3.0	-3		0	-9	-6	-2	0	-1
Date Planted	5-21	5-21		5-30	5-13	5-6	5-30	5-29	5-21
Days to Mature	126	113		122	130	136	116	125	139

PRELIMINARY TEST I, 1986

LODGING (Score)

Strain	Mean 8 Tests	Corwith IA	Spencer IA	Saginaw MI	Lamber-ton MN	Waseca MN	Ridge-town ONT	Brookings SD	Arling-ton WI
Dawson (0)	2.6	2.1	2.3	3.5	4.0	1.5	1.0	2.0	4.5
Elgin (II)	2.5	2.4	2.2	3.0	4.5	1.0	1.0	2.0	3.8
Sibley (I)	2.7	3.0	2.6	3.5	4.5	1.5	1.0	2.0	3.8
A85-191029	2.3	1.8	2.0	3.0	3.5	1.5	1.0	2.0	3.2
A85-191030	2.4	2.6	2.3	3.0	3.0	1.5	1.0	2.0	3.5
A85-191033	2.5	2.2	2.1	3.0	4.5	1.5	1.0	2.0	3.5
A85-192028	2.4	2.0	2.2	3.0	4.0	1.5	1.0	2.0	3.5
A85-192034	1.9	1.5	1.8	2.0	2.5	1.0	1.0	2.0	3.0
A85-193012	3.0	3.0	2.5	3.5	4.5	2.0	2.0	3.0	3.8
A85-193020	2.7	1.9	2.4	3.5	5.0	1.0	1.0	2.5	4.2
A85-193023	2.6	2.1	2.3	3.0	4.0	2.0	1.0	2.0	4.2
A85-193033	2.4	2.1	2.4	2.5	5.0	1.5	1.0	2.0	2.8
A85-194007	2.5	2.3	2.4	3.0	4.0	1.5	1.5	2.0	3.5
A85-194010	2.9	3.5	2.3	3.5	4.5	2.5	1.0	2.5	3.5
A85-194012	2.7	2.8	2.7	3.0	4.5	2.0	1.0	2.0	3.5
A85-195005	2.5	1.7	2.4	3.0	4.5	1.0	1.5	2.0	4.0
A85-195013	3.0	2.5	3.1	3.5	4.5	2.0	2.0	2.0	4.5
A85-291010	2.4	2.1	2.2	3.0	4.0	1.0	1.0	2.0	3.8
M82-106	1.9	1.8	1.9	2.5	2.5	1.0	1.0	1.0	3.5
M82-118	1.8	1.7	2.0	2.0	2.5	1.0	1.0	1.5	3.0
M82-559	1.7	1.5	1.7	1.5	2.5	1.0	1.0	1.0	3.2
M82-772	2.2	1.8	2.3	3.0	3.0	1.0	1.0	2.0	3.8
M82-776	2.1	1.6	2.7	2.0	3.0	1.0	1.0	2.0	3.8
M82-808	2.3	1.9	2.2	3.0	4.0	1.0	1.0	2.0	3.5
M82-946	1.9	1.8	2.0	2.5	2.0	1.5	1.0	1.5	3.0
OX Hodgson 1c Hm	2.2	2.3	2.6	2.5	3.0	1.0	1.0	2.0	3.5

PRELIMINARY TEST I, 1986

PLANT HEIGHT (Inches)

Strain	Mean 8 Tests	Corwith IA	Spencer IA	Saginaw MI	Lamber-ton MN	Waseca MN	Ridge-town ONT	Brookings SD	Arling-ton WI
Dawson (0)	33	32	28	34	34	35	26	32	42
Elgin (II)	35	35	34	34	37	39	27	33	37
Sibley (I)	36	36	34	34	38	38	29	35	42
A85-191029	37	40	36	34	43	41	30	38	35
A85-191030	36	36	34	33	40	42	28	37	36
A85-191033	36	38	37	33	41	40	29	33	35
A85-192028	37	39	36	32	43	41	30	34	39
A85-192034	35	33	32	36	36	38	28	36	39
A85-193012	40	39	38	39	44	43	34	39	42
A85-193020	38	41	36	33	40	41	32	42	39
A85-193023	34	36	34	34	39	40	29	31	32
A85-193033	38	40	38	37	44	42	30	36	38
A85-194007	38	39	36	38	42	41	31	35	44
A85-194010	37	44	36	37	39	39	30	36	38
A85-194012	38	38	38	38	40	41	33	37	39
A85-195005	39	42	38	37	43	43	32	36	42
A85-195013	38	38	35	38	40	40	35	37	40
A85-291010	37	39	36	33	41	41	30	37	39
M82-106	33	35	32	31	33	41	26	33	34
M82-118	36	36	35	36	38	41	29	33	39
M82-559	32	31	30	26	39	36	28	35	32
M82-772	37	34	34	36	41	43	30	35	39
M82-776	36	36	32	29	42	42	31	35	38
M82-808	38	42	36	35	41	42	30	34	40
M82-946	35	37	34	33	41	40	26	35	37
OX Hodgson 1c Hm	35	36	34	34	38	38	28	30	42

PRELIMINARY TEST I, 1986

SEED QUALITY (Score)

Strain	Mean 6 Tests	Corwith IA	Spencer IA	Saginaw MI	Lamber-ton MN	Waseca MN	Ridge-town ONT	Brookings SD	Arling-ton WI
Dawson (O)	2.4	2.0			3.5	2.0	1.0	2.0	4.0
Elgin (II)	2.3	2.0			2.5	2.0	1.0	3.0	3.0
Sibley (I)	2.2	1.0			2.0	4.0	1.0	2.0	3.0
A85-191029	2.4	1.0			2.5	3.0	2.0	4.0	2.0
A85-191030	2.5	2.0			2.0	3.0	2.0	3.0	3.0
A85-191033	2.4	2.0			2.0	3.3	2.0	3.0	2.0
A85-192028	2.5	2.0			2.0	3.7	2.0	3.0	2.0
A85-192034	1.9	2.0			1.5	2.7	1.0	2.0	2.0
A85-193012	2.0	1.0			2.0	2.0	2.0	3.0	2.0
A85-193020	2.1	2.0			2.0	3.3	1.0	2.0	2.0
A85-193023	2.5	2.0			2.5	2.7	2.0	3.0	3.0
A85-193033	2.0	1.0			3.0	3.0	1.0	2.0	2.0
A85-194007	2.6	3.0			2.5	2.0	2.0	3.0	3.0
A85-194010	2.8	3.0			4.0	2.0	2.0	3.0	3.0
A85-194012	2.5	2.0			3.5	2.3	2.0	3.0	2.0
A85-195005	2.2	2.0			3.0	2.3	2.0	3.0	1.0
A85-195013	2.1	2.0			2.5	2.3	1.0	3.0	2.0
A85-291010	1.9	1.0			2.5	2.0	1.0	3.0	2.0
M82-106	2.3	2.0			3.5	3.0	1.0	2.0	2.0
M82-118	1.9	1.0			2.5	3.0	1.0	2.0	2.0
M82-559	2.0	1.0			3.0	2.7	1.0	2.0	2.0
M82-772	2.3	1.0			3.5	3.3	1.0	2.0	3.0
M82-776	2.5	2.0			3.5	2.7	1.0	2.0	4.0
M82-808	2.0	1.0			3.0	3.0	1.0	2.0	2.0
M82-946	2.3	2.0			3.5	3.3	1.0	2.0	2.0
OX Hodgson 1c Hm	2.2	2.0			2.5	2.7	2.0	2.0	2.0

PRELIMINARY TEST I, 1986

SEED SIZE (g/100)

Strain	Mean 7 Tests	Corwith IA	Spencer IA	Saginaw MI	Lamber-ton MN	Waseca MN	Ridge-town ONT	Brookings SD	Arling-ton WI
Dawson (O)	14.6	13.9		11.4	15.5	14.1	16.7	15.6	14.7
Elgin (II)	16.5	15.8		14.2	17.2	14.9	17.0	17.8	18.3
Sibley (I)	17.4	16.6		16.8	19.6	17.5	18.8	17.2	15.0
A85-191029	13.7	14.0		13.1	13.8	13.7	14.3	14.0	12.7
A85-191030	14.5	13.8		13.1	15.3	14.4	16.0	14.8	14.4
A85-191033	15.7	15.6		14.1	16.9	15.9	15.6	16.8	15.3
A85-192028	14.3	14.0		11.4	16.3	13.7	15.4	15.3	13.7
A85-192034	15.6	16.4		13.9	17.4	15.7	16.1	16.5	13.3
A85-193012	13.6	13.8		12.4	14.0	13.5	14.5	13.5	13.5
A85-193020	17.1	16.7		17.2	17.7	15.8	18.6	17.9	15.7
A85-193023	15.7	15.9		14.2	16.2	15.0	17.1	16.2	15.6
A85-193033	15.5	16.0		13.5	17.2	14.2	16.2	16.7	14.4
A85-194007	15.4	15.3		13.7	16.8	14.9	16.4	15.9	14.8
A85-194010	15.5	14.3		15.7	16.2	14.5	16.2	15.9	15.5
A85-194012	13.7	13.6		13.7	14.2	12.9	14.3	14.0	13.3
A85-195005	14.2	14.9		12.2	14.2	14.6	15.2	14.4	13.7
A85-195013	16.3	16.1		16.5	16.9	15.6	17.0	17.0	14.9
A85-291010	15.6	15.7		14.6	16.8	14.9	16.3	16.4	14.4
M82-106	15.7	14.8		15.1	15.9	15.0	18.9	15.1	15.4
M82-118	15.0	14.9		13.3	15.9	13.6	16.5	15.6	14.9
M82-559	16.8	17.2		14.8	18.4	16.0	18.9	17.3	15.1
M82-772	17.1	17.0		14.9	18.2	16.9	19.4	17.3	16.3
M82-776	17.2	17.1		16.0	17.7	16.4	19.1	17.4	16.7
M82-808	17.3	16.5		16.0	18.6	16.2	18.2	17.4	18.1
M82-946	16.9	16.3		16.1	17.2	16.6	18.5	17.3	16.2
OX Hodgson 1c Hm	15.0	14.6		14.5	16.1	12.9	17.1	15.0	15.1

PRELIMINARY TEST I, 1986

PROTEIN (%)

Strain	Mean 3 Tests	Waseca, MN	Brookings, S.D.	Arlington, WI
Dawson (0)	39.0	36.2	40.1	40.8
Elgin (II)	39.7	37.1	40.4	41.7
Sibley (I)	40.5	37.6	42.4	41.6
A85-191029	41.3	39.5	42.6	41.7
A85-191030	40.4	37.1	41.0	43.0
A85-191033	40.7	38.5	41.9	41.8
A85-192028	40.8	38.2	41.7	42.5
A85-192034	41.5	38.3	42.5	43.8
A85-193012	39.0	36.1	41.1	39.8
A85-193020	40.4	38.3	41.7	41.2
A85-193023	39.7	37.2	41.2	40.6
A85-193033	41.9	39.0	43.1	43.7
A85-194007	39.7	37.7	39.7	41.8
A85-194010	39.8	36.7	41.5	41.2
A85-194012	39.3	38.4	38.7	40.7
A85-195005	40.8	38.6	41.9	41.8
A85-195013	40.6	38.4	41.7	41.8
A85-291010	40.2	38.6	41.7	40.3
M82-106	41.5	38.7	42.7	43.2
M82-118	40.3	37.4	41.6	41.9
M82-559	42.3	39.6	43.3	44.1
M82-772	42.4	40.9	43.8	42.4
M82-776	41.5	39.7	42.6	42.2
M82-808	40.4	37.5	41.3	42.4
M82-946	41.9	39.2	42.7	43.9
OX Hodgson - 1c Hm	39.9	37.3	41.2	41.3

PRELIMINARY TEST I, 1986

OIL (%)

Strain	Mean 3 Tests	Waseca, MN	Brookings, S.D.	Arlington, WI
Dawson (O)	21.2	21.9	20.1	21.6
Elgin (II)	19.3	21.1	18.6	18.1
Sibley (I)	19.8	21.7	19.3	18.5
A85-191029	18.3	19.5	17.4	17.9
A85-191030	19.9	21.3	19.2	19.1
A85-191033	19.4	21.2	18.3	19.3
A85-192028	18.8	20.4	18.1	17.3
A85-192034	19.1	21.2	18.6	17.6
A85-193012	18.3	20.0	17.5	17.4
A85-193020	19.5	20.9	18.4	19.1
A85-193023	19.9	21.8	18.6	19.4
A85-193033	18.8	20.7	18.1	17.5
A85-194007	19.2	20.3	18.6	18.7
A85-194010	19.5	21.4	18.6	18.6
A85-194012	18.8	19.6	19.2	17.9
A85-195005	20.3	21.1	18.5	21.4
A85-195013	19.4	20.4	18.3	19.4
A85-291010	19.3	20.7	18.3	18.8
M82-106	19.4	21.1	18.9	18.1
M82-118	20.0	21.7	19.3	19.1
M82-559	18.7	19.9	18.8	17.5
M82-772	18.9	20.0	18.3	18.4
M82-776	20.1	20.9	19.4	19.9
M82-808	19.5	21.1	18.8	18.7
M82-946	18.6	20.1	17.5	18.2
OX Hodgson 1c Hm	20.0	21.4	19.1	19.5

UNIFORM TEST 11, 1986

Strain	Parentage	Previous Generation Testing*	Composited
Century 84	Century^{5} X Williams 82	4	BC4 F3
Elgin (II)	AP6(2YT) (F4) C1	5	F4
A Elgin BC	Elgin^{5} X Williams 82	1	BC4 F2
Hardin (I)	Corsoy^{3} X Cutler 71	-	F3
Hoyt	Harcor X Elf	4	F5
Preston	Schechinger S48 X Land O'Lakes Max	-	F4
Zane (III)	Cumberland X Pella	1	F5
A83-172007	A77-211021 X Merschman Washington V	UTI	F4
A83-273009	Asgrow 3127 X Tri-Valley Charger	1	F4
A84-284033	HW79015 X A80-247007	PTIIA	F4
C1678	Hobbit X Lakota	PTIIB	F6
HC80-1742	Union X Gnome	PTIIB	F5
HC80-1756	L73U-632 X Elf	1	F5
M81-381	M70-127 X Century	PTI	F5
M81-384	M70-127 X Century	PTI	F5

* Number of years in test or name of 1985 test.

The strain A83-273009 has been the highest yielding entry in each of the past 2 years in this test. The strain A84-284033 matured slightly later than Zane and additional testing should be in UT III. M81-384 had low iron chlorosis scores at both Ames and Lamberton. All entries appeared to be susceptible to brown stem rot.

UNIFORM TEST II, 1986

DESCRIPTIVE DATA

Strain	Descriptive Code		Chlorosis Score Ames	Chlorosis Score Lamberton	Emergence Score Ames	Shattering Score Manhattan
Century 84	PTBSYB1	I	2.2	3	4	1
Elgin (II)	PTBDYB1	I	3.7	4	5	1
A Elgin BC	PTBSYB1	I	3.3	4	4	1
Hardin (I)	PGBDYY	I	4.0	4	2	1
Hoyt	PTTSYB1	D	3.7	3	1	1
Preston	PTBDYGr	I	3.2	4	4	1
Zane (III)	PGBSYIb	I	3.5	4	5	1
A83-172007	WTBDYBr	I	3.6	4	1	1
A83-273009	PTTDYBr	I	3.5	5	1	1
A84-284003	WGBDYBf	I	2.8	3	3	1
C1678	WTTDYB1	D	2.8	5	1	1
HC80-1742	PTTDYB1	D	2.5	4	2	-
HC80-1756	WTTDYB1	D	3.7	3	3	-
M81-381	PTBDYBr	I	2.8	3	2	1
M81-384	PGBDYIb	I	1.8	2	5	1

DISEASE DATA

Strain	BSR Ames Plant N %	BSR Ames Stem N %	BSR St. Paul Plant N %	BTS Ames a Score	PR Vickery Tolerance Score	PS Lafayette a %	PSB Lafayette n %	SMV Lafayette a Score
Century 84	100	97.7	50	3	2.8	27	58	5E
Elgin (II)	100	97.3	60	4	3.4	8	14	5E
A Elgin BC	100	94.3	60	4	2.9	10	20	5E
Hardin (I)	100	97.3	60	3	3.8	35	12	5E
Hoyt	100	98.0	50	3	4.0	9	42	5E
Preston	100	87.8	60	4	3.5	7	32	5E
Zane (III)	100	84.7	30	4	3.0	7	22	5E
A83-172007	100	86.5	50	3	4.1	27	54	5E
A83-273009	100	76.5	60	2	3.0	7	28	5E
A84-284003	100	73.1	40	4	4.2	12	22	-
C1678	100	98.0	60	3	3.4	3	34	3E
HC80-1742	100	100.0	0	3	3.6	10	56	5E
HC80-1756	100	99.0	50	3	3.6	4	64	5E
M81-381	100	96.2	80	4	3.6	36	62	4E
M81-384	100	98.0	60	4	3.3	-	-	-

UNIFORM TEST II, 1986

Regional Summary

Strain No. of Tests	Yield 21 bu/a	Rank 21 No.	Maturity 20 Date	Lodging 21 Score	Plant Height 21 In	Seed Quality 18 Score	Seed Size 19 g/100	Composition Protein 4 %	Oil 4 %
Century 84	50.4	7	+1.3	1.6	37	1.8	17.1	42.2	20.0
Elgin (II)	49.9	8	9-22.3*	2.0	34	1.9	16.2	37.6	21.3
A Elgin BC	51.5	4	+0.9	2.4	34	1.8	16.1	37.9	21.6
Hardin (I)	48.6	15	-3.6	2.6	37	2.0	14.3	38.2	22.1
Hoyt	51.5	4	+2.7	1.7	24	1.9	13.6	40.6	20.7
Preston	49.3	13	+2.9	2.2	38	2.2	16.7	39.9	20.7
Zane (III)	51.2	6	+5.2	2.0	38	1.8	18.4	38.9	21.6
A83-172007	49.5	11	-3.3	2.4	39	2.4	18.7	39.8	21.2
A83-273009	53.8	1	+1.6	1.8	35	1.8	15.4	39.5	21.0
A84-284033	52.9	2	+5.8	2.3	44	2.0	17.5	38.1	21.7
C1678	49.5	11	+0.9	1.4	26	1.6	14.9	38.8	21.2
HC80-1742	49.7	9	+2.1	1.4	25	2.0	16.0	40.4	19.8
HC80-1756	49.7	9	+1.3	1.4	26	1.9	15.7	41.2	19.8
M81-381	49.1	14	-2.8	1.8	35	2.1	17.9	40.7	21.0
M81-384	51.7	3	-2.1	1.8	35	1.7	17.3	39.0	21.7

* 126 Days after planting.

1985-1986 2-YEAR MEAN

No. of Tests	42	42	40	42	42	36	39	7	7
Century 84	47.8	6	+3.0	1.4	36	2.0	18.2	42.6	20.2
Elgin (II)	48.6	4	9-23.8*	1.8	32	1.9	17.8	37.5	22.2
A Elgin BC	50.0	2	+1.1	1.8	32	1.9	17.6	37.8	22.2
Hoyt	48.4	5	+2.9	1.8	24	2.0	14.2	41.1	21.2
Zane (III)	49.6	3	+5.3	1.8	37	1.8	19.2	39.6	22.1
A83-273009	51.4	1	+1.4	1.8	34	1.8	16.4	39.3	21.5
HC80-1756	47.4	7	+1.5	1.4	26	1.9	16.3	41.4	20.6

* 128 Days after planting.

UNIFORM TEST II, 1986

YIELD (bu/a)

Strain	Mean 21 Tests	Ames IA	Marshall-town IA	Dekalb IL	Pontiac IL	Urbana IL	Bluff-ton IN	Lafayette IN	Britton MI	Saginaw MI	Lamber-ton MN
Century 84	50.4	49.5	46.5	67.5	54.9	57.4	71.2	56.3	53.6	34.0	55.3
Elgin (II)	49.9	50.0	47.8	66.3	56.4	58.9	58.1	51.0	55.9	30.4	65.3
A Elgin BC	51.5	48.1	49.8	68.5	60.1	63.0	64.6	53.7	60.0	28.9	59.7
Hardin (I)	48.6	50.6	48.1	56.8	49.2	58.4	51.7	52.3	51.3	29.2	68.4
Hoyt	51.5	51.1	45.5	56.5	62.0	50.2	61.5	65.5	53.8	32.7	58.8
Preston	49.3	49.6	50.0	61.8	56.5	59.0	62.1	57.0	44.2	30.1	56.4
Zane (III)	51.2	52.6	53.7	67.4	59.6	63.4	64.4	61.6	51.7	29.3	57.9
A83-172007	49.5	50.9	52.2	63.2	54.3	56.6	51.2	49.2	53.0	26.2	63.6
A83-273009	53.8	53.4	51.1	68.2	61.4	67.5	60.3	62.1	53.3	31.9	61.8
A84-284033	52.9	51.8	51.4	68.8	65.5	63.1	68.5	65.2	51.4	32.2	62.2
C1678	49.5	48.1	42.5	54.1	55.7	55.6	58.2	57.4	51.2	36.3	57.9
HC80-1742	49.7	48.1	43.3	51.1	57.5	58.6	54.2	58.7	51.9	36.1	55.3
HC80-1756	49.7	47.4	43.2	55.9	58.2	54.6	50.0	59.1	50.4	34.2	64.4
M81-381	49.1	46.7	49.3	62.0	56.5	51.4	57.6	54.2	47.2	29.3	63.6
M81-384	51.7	55.3	55.0	64.3	55.7	58.3	57.0	53.9	52.2	34.1	66.1
C.V. (%)		6.6	4.0	6.0	6.6	9.5	14.0	6.2	10.4	13.5	8.2
L.S.D. (5%)		4.6	6.0	6.3	6.4	NS	13.4	5.6	NS	NS	8.3
Row Sp. (In.)		27	27	30	30	30	15	24	20	20	10
Rows/Plot		4	4	4	4	4	5	4	4	4	10
Reps		4	4	3	3	3	3	3	4	4	3

UNIFORM TEST II, 1986

YIELD (bu/a)

Strain	Waseca MN	Mead NE	Adelphia NJ	Hoyt-ville OH	Wooster OH	Harrow ONT	Ridge-town ONT	Rock Springs PA	Brookings SD	Center-ville SD	Arling-ton WI
Century 84	38.7	54.5	42.2	67.1	35.6	55.2	45.6	40.9	42.9	50.1	39.5
Elgin (II)	46.7	47.5	39.1	54.5	35.9	52.7	47.4	37.5	50.5	51.4	45.3
A Elgin BC	43.7	47.0	41.8	63.4	36.2	56.1	49.1	42.8	49.1	54.3	40.6
Hardin (I)	47.8	42.9	35.4	39.8	39.4	61.4	50.7	39.0	48.2	53.0	47.8
Hoyt	50.4	61.3	47.1	51.9	39.1	60.6	50.6	41.8	45.9	51.0	44.9
Preston	47.0	50.2	39.4	45.5	36.8	57.3	49.0	41.1	48.6	52.2	42.0
Zane (III)	50.0	44.4	35.7	60.9	38.6	54.8	43.5	46.8	43.2	52.2	44.1
A83-172007	45.4	44.9	39.1	42.4	39.0	59.7	51.8	42.6	50.8	51.6	52.0
A83-273009	52.0	59.6	45.3	61.8	37.6	57.9	50.9	40.9	50.9	56.0	45.4
A84-284033	52.6	51.2	48.1	31.5	41.9	64.7	50.8	46.7	47.1	54.9	42.2
C1678	47.0	54.4	42.3	57.3	33.6	55.1	48.2	43.4	41.8	50.8	48.0
HC80-1742	47.0	60.7	31.3	55.6	38.4	58.8	48.0	41.1	45.1	51.3	50.9
HC80-1756	48.0	59.7	35.7	55.8	38.5	55.9	51.0	40.2	43.4	49.8	47.7
M81-381	44.5	46.6	42.9	49.1	41.2	55.9	51.4	36.2	46.0	56.4	43.9
M81-384	48.6	47.2	34.5	47.9	39.0	60.2	54.9	41.1	50.6	58.6	50.5
C.V. (%)	11.4	7.4	15.3	13.1	11.2	4.6	6.9	10.2	5.6	5.5	5.4
L.S.D. (5%)	8.9	6.3	7.5	11.2	7.0	3.8	5.8	NS	4.3	4.8	3.9
Row Sp. (In.)	10	30	30	30	30	30	24	30	30	30	30
Rows/Plot	10	4	4	4	4	4	4	4	4	4	4
Reps	3	3	3	3	3	4	3	3	3	3	3

UNIFORM TEST II, 1986

YIELD RANK

Strain	Yield Rank	Ames IA	Marshall-town IA	Dekalb IL	Pontiac IL	Urbana IL	Bluff-ton IN	Lafayette IN	Britton MI	Saginaw MI	Lamber-ton MN
Century 84	7	10	11	4	13	10	1	9	4	5	15
Elgin (II)	8	8	10	6	12	6	9	14	2	9	3
A Elgin BC	4	11	7	2	4	4	3	12	1	14	10
Hardin (I)	15	7	9	11	15	8	13	13	11	13	1
Hoyt	4	5	12	12	2	15	6	1	3	6	11
Preston	13	9	6	10	10	5	5	8	15	10	14
Zane (III)	6	3	2	5	5	2	4	4	9	12	12
A83-172007	11	6	3	8	14	11	14	15	6	15	6
A83-273009	1	2	5	3	3	1	7	3	5	8	9
A84-284033	2	4	4	1	1	3	2	2	10	7	8
C1678	11	11	16	14	8	12	8	7	12	1	12
HC80-1742	9	11	14	15	7	7	12	6	8	2	15
HC80-1756	9	14	15	13	6	13	15	5	13	3	4
M81-381	14	15	8	9	10	14	10	10	14	11	6
M81-384	3	1	1	7	8	9	11	11	7	4	2

UNIFORM TEST II, 1986

YIELD RANK

Strain	Waseca MN	Mead NE	Adelphia NJ	Hoyt-ville OH	Wooster OH	Harrow ONT	Ridge-town ONT	Rock Springs PA	Brookings SD	Center-ville SD	Arling-ton WI
Century 84	15	5	6	1	14	12	14	11	14	14	15
Elgin (II)	11	9	9	8	13	15	13	14	4	10	8
A Elgin BC	14	11	7	2	12	9	9	4	5	5	14
Hardin (I)	7	15	13	14	3	2	7	13	7	6	5
Hoyt	3	1	2	9	4	3	8	6	10	12	9
Preston	8	8	8	12	11	8	10	7	6	7	13
Zane (III)	4	14	11	4	7	14	15	1	13	7	10
A83-172007	12	13	9	13	5	5	2	5	2	9	1
A83-273009	2	4	3	3	10	7	5	10	1	3	7
A84-284033	1	7	1	15	1	1	6	2	8	4	12
C1678	8	6	5	5	15	13	11	3	15	13	4
HC80-1742	8	2	15	7	9	6	12	7	11	11	2
HC80-1756	6	3	11	6	8	10	4	12	12	15	6
M81-381	13	12	4	10	2	10	3	15	9	2	11
M81-384	3	10	14	11	5	4	1	7	3	1	3

UNIFORM TEST II, 1986

MATURITY (Date)

Strain	Mean 20 Tests	Ames IA	Marshall-town IA	Dekalb IL	Pontiac IL	Urbana IL	Bluff-ton IN	Lafayette IN	Britton MI	Saginaw MI	Lamber-ton MN
Century 84	+1.3	0		+	+1	+1	+1	0	+3	+4	-4
Elgin (II)	9-22.3	9-20		9-15	9-2	8-31	9-17	9-9	9-18	10-10	9-24
A Elgin BC	+0.9	+1		0	+2	+1	+1	+1	+2	+1	+4
Hardin (I)	-3.6	-5		-5	0	-6	-6	-4	-7	-4	-2
Hoyt	+2.7	+2		0	+4	+3	+2	+7	0	+3	+7
Preston	+2.9	+2		+1	+6	+2	+2	+4	+3	+5	+5
Zane (III)	+5.2	+4		+6	+5	+5	+3	+6	+2	+4	+9
A83-172007	-3.3	-6		-1	0	-6	-6	-6	-6	-3	-3
A83-273009	+1.6	+3		0	+3	+1	-1	+6	-1	+2	+7
A84-284033	+5.8	+6		+9	+10	+5	+4	+9	+2	+4	+10
C1678	+0.9	+2		0	+3	-2	0	+4	-4	+1	+6
HC80-1742	+2.1	+2		+2	+4	+1	0	+4	-1	+3	+7
HC80-1756	+1.3	+1		+3	+3	-1	-1	+1	-2	+1	+6
M81-381	-2.8	-7		-1	0	-5	-3	-6	-4	-3	+1
M81-384	-2.1	-5		-2	0	-5	-3	-6	-4	-1	+2
Date Planted	5-19	5-23		5-3	5-8	5-5	6-3	5-23	5-10	5-30	5-13
Days to Mature	126	120		135	119	118	106	109	131	133	134

UNIFORM TEST II, 1986

MATURITY (Date)

Strain	Waseca MN	Mead NE	Adelphia NJ	Hoyt-ville OH	Wooster OH	Harrow ONT	Ridge-town ONT	Rock Springs PA	Brookings SD	Center-ville SD	Arling-ton WI
Century 84	0	0	-2	+1	+2	0	+3	+4	+6	0	+4
Elgin (II)	9-25	9-21	9-26	9-16	9-13	9-28	9-28	9-29	10-6	9-27	10-21
A Elgin BC	0	+2	-1	+1	+1	0	+1	+2	-1	0	0
Hardin (I)	-3	-4	-2	-8	-3	-1	-2	-1	-3	-3	-2
Hoyt	+5	+1	-1	+2	+1	+4	+3	+6	+3	+2	0
Preston	+3	+2	+3	0	+1	+4	+5	+4	+2	+1	+2
Zane (III)	+9	+6	+4	+4	+3	+5	+7	+5	+9	+5	+3
A83-172007	0	-8	-3	-7	-3	-1	-1	-2	-2	-2	0
A83-273009	+3	+1	-1	0	+1	+1	+1	+3	+2	+1	-1
A84-284033	+7	+6	+3	+1	+5	+7	+8	+6	+6	+5	+2
C1678	+4	+1	-4	0	-1	+1	0	+4	0	+2	0
HC80-1742	+4	0	-3	0	+1	+2	+2	+6	+4	+3	0
HC80-1756	+4	-1	-3	+2	-1	+3	+2	+7	+1	+1	0
M81-381	-2	-7	-4	-5	-2	-3	-1	+1	-1	-2	-1
M81-384	0	-7	-2	-3	-1	-1	-1	+2	+1	-2	-2
Date Planted	5-6	5-21	5-27	5-6	5-9	6-4	5-30	5-31	5-29	5-22	5-21
Days to Mature	142	123	122	133	127	116	121	121	130	128	153

UNIFORM TEST II, 1986

LODGING (Score)

Strain	Mean 21 Tests	Ames IA	Marshall-town IA	Dekalb IL	Pontiac IL	Urbana IL	Bluff-ton IN	Lafayette IN	Britton MI	Saginaw MI	Lamber-ton MN
Century 84	1.6	1.5	1.8	1.5	2.7	1.0	1.0	1.0	1.8	2.5	2.3
Elgin (II)	2.0	1.6	2.0	1.7	2.7	1.7	1.2	1.7	2.3	2.8	5.0
A Elgin BC	2.4	2.0	2.1	2.0	3.0	2.0	1.0	2.3	3.0	3.5	5.0
Hardin (I)	2.6	2.0	2.1	2.0	3.8	2.7	1.7	3.3	2.5	3.7	5.0
Hoyt	1.7	1.7	1.5	1.5	1.7	1.0	1.2	1.0	1.8	2.3	3.0
Preston	2.2	1.8	2.0	1.8	3.3	2.0	1.5	1.8	2.3	3.0	4.7
Zane (III)	2.0	1.7	1.9	1.7	3.2	1.3	1.2	1.7	2.0	3.3	4.3
A83-172007	2.4	1.7	2.0	1.8	3.3	2.0	1.5	2.3	2.8	3.7	4.3
A83-273009	1.8	1.6	1.8	1.7	1.8	1.0	1.0	2.0	1.3	3.0	4.3
A84-284033	2.3	2.3	2.1	2.0	3.3	3.3	1.3	2.0	1.8	3.7	4.3
C1678	1.4	1.5	1.5	1.5	1.5	1.0	1.0	1.0	1.3	1.7	2.7
HC80-1742	1.4	1.5	1.5	1.5	1.5	1.0	1.0	1.0	1.5	1.2	2.7
HC80-1756	1.4	1.7	1.5	1.5	1.5	1.0	1.0	1.0	1.3	1.5	2.7
M81-381	1.8	1.7	1.7	1.7	2.7	1.0	1.0	1.3	1.8	3.3	4.7
M81-384	1.8	1.6	1.8	1.5	3.0	2.0	1.0	1.0	1.5	3.0	4.0

UNIFORM TEST II, 1986

LODGING (Score)

Strain	Waseca MN	Mead NE	Adelphia NJ	Hoyt-ville OH	Wooster OH	Harrow ONT	Ridge-town ONT	Rock Springs PA	Brookings SD	Center-ville SD	Arling-ton WI
Century 84	1.0	1.0	1.0	1.4	1.3	1.3	1.7	1.3	2.7	1.0	3.2
Elgin (II)	1.3	1.5	2.0	1.5	1.2	1.4	1.7	1.0	2.7	1.3	3.5
A Elgin BC	1.7	2.0	2.3	2.2	1.2	2.1	2.7	1.0	3.0	2.0	3.3
Hardin (I)	2.3	2.3	3.0	1.7	1.2	2.0	2.3	2.7	2.3	2.7	3.3
Hoyt	1.0	1.0	1.3	1.1	1.2	1.4	1.3	2.0	2.0	2.0	3.7
Preston	1.7	2.0	2.0	1.7	1.3	1.5	2.3	1.3	2.3	2.0	3.7
Zane (III)	1.3	1.3	1.7	1.5	1.3	1.3	1.3	1.3	3.0	1.7	3.2
A83-172007	1.7	2.2	2.7	1.6	1.2	2.3	2.3	2.0	2.0	2.7	3.5
A83-273009	1.0	1.0	1.7	1.7	1.3	1.3	1.0	1.0	2.7	2.0	3.0
A84-284033	2.3	2.2	1.7	1.3	1.2	1.5	1.7	2.0	2.3	2.3	3.5
C1678	1.3	1.0	1.0	1.1	1.2	1.3	1.0	1.0	1.3	1.0	3.5
HC80-1742	1.0	1.0	1.0	1.1	1.2	1.0	1.0	1.7	1.7	1.7	2.0
HC80-1756	1.0	1.0	1.0	1.3	1.2	1.1	1.0	1.7	2.0	1.0	2.7
M81-381	1.0	1.0	2.0	1.2	1.2	1.4	1.3	1.0	2.0	1.7	3.2
M81-384	2.0	1.5	1.0	1.2	1.2	1.1	1.0	1.0	2.7	2.0	3.3

UNIFORM TEST II, 1986

PLANT HEIGHT (Inches)

Strain	Mean 21 Tests	Ames IA	Marshall-town IA	Dekalb IL	Pontiac IL	Urbana IL	Bluff-ton IN	Lafayette IN	Britton MI	Saginaw MI	Lamber-ton MN
Century 84	37	37	40	43	43	41	35	39	37	35	44
Elgin (II)	34	36	35	37	40	40	29	35	31	31	42
A Elgin BC	34	35	36	39	40	39	31	35	33	32	41
Hardin (I)	37	36	39	39	40	41	36	41	32	37	46
Hoyt	24	23	24	23	26	21	22	25	26	24	28
Preston	38	40	44	41	42	44	34	41	36	34	49
Zane (III)	38	42	42	41	41	44	34	40	35	36	47
A83-172007	39	37	40	43	49	43	36	40	38	40	48
A83-273009	35	36	36	38	42	41	31	39	33	36	43
A84-284033	44	48	47	46	54	52	39	53	39	48	54
C1678	26	26	28	26	28	23	24	26	29	27	28
HC80-1742	25	23	25	24	27	25	23	23	27	25	34
HC80-1756	26	23	26	26	27	24	25	24	28	25	26
M81-381	35	34	36	39	42	38	31	34	33	35	41
M81-384	35	36	36	39	41	39	30	35	30	34	42

UNIFORM TEST II, 1986

PLANT HEIGHT (Inches)

Strain	Waseca MN	Mead NE	Adelphia NJ	Hoyt-ville OH	Wooster OH	Harrow ONT	Ridge-town ONT	Rock Springs PA	Brookings SD	Center-ville SD	Arling-ton WI
Century 84	46	37	33	34	26	36	36	32	40	32	37
Elgin (II)	41	34	29	31	25	31	31	28	33	33	35
A Elgin BC	43	35	28	32	24	31	31	26	34	31	35
Hardin (I)	43	45	37	29	28	36	35	35	36	34	41
Hoyt	31	27	20	17	15	25	25	27	26	27	26
Preston	45	40	33	31	26	37	35	35	38	30	35
Zane (III)	45	38	32	33	27	37	35	36	38	30	38
A83-172007	47	38	34	32	32	36	35	34	38	32	41
A83-273009	44	35	29	34	25	32	31	30	37	34	35
A84-284033	49	49	41	28	33	42	39	41	44	32	39
C1678	34	26	21	22	18	24	26	28	28	29	32
HC80-1742	31	28	20	24	16	25	26	27	27	25	28
HC80-1756	31	28	19	24	20	27	27	28	28	25	31
M81-381	45	34	30	30	27	33	34	32	37	33	40
M81-384	40	35	28	27	27	34	35	31	38	33	40

UNIFORM TEST II, 1986

SEED QUALITY (Score)

Strain	Mean 18 Tests	Ames IA	Marshall-town IA	Dekalb IL	Pontiac IL	Urbana IL	Bluff-ton IN	Lafayette IN	Britton MI	Saginaw MI	Lamber-ton MN
Century 84	1.8	1.0		1.9	3.1	1.8	1.0	2.0			1.3
Elgin (II)	1.9	2.0		1.9	3.7	1.4	1.0	1.5			1.3
A Elgin BC	1.8	2.0		1.9	3.3	1.4	1.0	1.5			1.3
Hardin (I)	2.0	1.0		2.2	4.8	1.3	1.0	2.0			2.0
Hoyt	1.9	2.0		2.4	2.6	1.8	1.0	1.0			1.7
Preston	2.2	3.0		1.9	2.8	1.8	1.0	2.0			1.7
Zane (III)	1.8	1.0		1.9	2.0	1.3	1.0	2.0			1.3
A83-172007	2.4	3.0		2.2	5.0	2.2	1.0	3.5			3.0
A83-273009	1.8	2.0		1.8	2.1	1.6	1.0	1.5			1.7
A84-284033	2.0	2.0		2.7	2.6	1.5	1.0	1.5			1.7
C1678	1.6	1.0		2.0	2.1	1.1	2.0	1.5			1.3
HC80-1742	2.0	2.0		2.8	3.2	2.0	1.5	1.5			1.3
HC80-1756	1.9	1.0		3.1	3.8	1.2	1.5	2.0			1.3
M81-381	2.1	3.0		1.8	3.6	2.4	1.5	2.5			2.7
M81-384	1.7	1.0		1.5	4.1	1.5	1.0	2.0			2.0

UNIFORM TEST II, 1986

SEED QUALITY (Score)

Strain	Waseca MN	Mead NE	Adelphia NJ	Hoyt-ville OH	Wooster OH	Harrow ONT	Ridge-town ONT	Rock Springs PA	Brookings SD	Center-ville SD	Arling-ton WI
Century 84	2.3	2.8	1.0	1.3	1.6	2.0	1.0	2.0	4.0	1.0	1.0
Elgin (II)	2.3	2.2	1.0	1.5	1.2	2.0	2.0	2.0	4.0	2.0	2.0
A Elgin BC	2.0	2.2	1.0	1.4	1.2	2.0	2.0	2.5	3.0	2.0	1.0
Hardin (I)	3.3	1.8	1.0	2.4	1.3	1.0	1.0	2.0	2.0	3.0	2.0
Hoyt	2.3	1.0	1.0	1.5	1.2	2.0	2.0	2.0	4.0	3.0	2.0
Preston	2.0	2.2	1.7	1.6	1.7	2.0	3.0	2.5	4.0	2.0	2.0
Zane (III)	1.7	2.8	1.0	1.8	1.3	2.0	1.0	2.0	4.0	3.0	2.0
A83-172007	3.3	2.3	1.3	2.3	1.4	2.0	2.0	2.0	2.0	2.0	2.0
A83-273009	2.0	1.8	1.0	1.3	1.2	3.0	3.0	2.0	3.0	1.0	2.0
A84-284033	1.7	2.5	1.0	2.6	1.3	2.0	3.0	2.5	3.0	2.0	1.0
C1678	1.3	1.2	1.0	1.6	1.5	2.0	2.0	2.0	3.0	2.0	1.0
HC80-1742	1.7	1.3	1.0	1.8	1.8	2.0	3.0	2.5	3.0	2.0	1.0
HC80-1756	1.7	1.0	1.0	2.2	1.4	2.0	2.0	2.5	3.0	2.0	1.0
M81-381	3.3	2.3	1.0	2.3	2.0	1.0	1.0	2.0	2.0	1.0	2.0
M81-384	2.7	2.0	1.0	2.1	1.7	2.0	1.0	1.5	2.0	1.0	1.0

UNIFORM TEST II, 1986

SEED SIZE (g/100)

Strain	Mean 19 Tests	Ames IA	Marshall-town IA	Dekalb IL	Pontiac IL	Urbana IL	Bluff-ton IN	Lafayette IN	Britton MI	Saginaw MI	Lamber-ton MN
Century 84	17.1	17.4		18.7	16.3	15.9	18.5	16.1	17.2	16.3	15.4
Elgin (II)	16.2	16.7		17.8	16.0	14.2	14.8	14.6	16.4	15.8	16.8
A Elgin BC	16.1	16.1		17.9	15.9	14.5	15.5	14.4	16.8	15.3	17.5
Hardin (I)	14.3	14.0		14.9	15.6	15.2	14.6	14.4	14.8	12.6	15.3
Hoyt	13.6	13.1		15.5	14.6	15.2	16.6	14.7	13.3	12.2	12.0
Preston	16.7	17.0		19.5	17.7	16.1	12.4	17.8	17.5	15.7	15.1
Zane (III)	18.4	19.0		21.4	19.0	17.6	16.7	19.3	19.7	16.6	18.5
A83-172007	18.7	18.5		21.2	18.6	19.0	18.5	18.1	20.2	17.9	18.8
A83-273009	15.4	15.2		17.4	14.9	15.0	17.5	17.6	14.9	14.9	15.2
A84-284033	17.5	17.5		21.0	18.3	19.1	14.4	19.2	18.9	16.2	16.5
C1678	14.9	15.5		17.1	13.7	15.1	17.0	14.4	15.0	13.1	13.0
HC80-1742	16.0	14.9		18.8	15.7	18.7	15.0	16.5	15.8	14.7	15.0
HC80-1756	15.7	14.3		19.0	16.0	16.9	14.3	15.3	15.3	14.8	15.2
M81-381	17.9	17.7		20.9	18.9	18.2	14.4	17.3	18.8	16.9	18.8
M81-384	17.3	17.0		18.9	17.1	16.7	17.5	16.2	18.9	15.8	17.9

UNIFORM TEST II, 1986

SEED SIZE (g/100)

Strain	Waseca MN	Mead NE	Adelphia NJ	Hoyt-ville OH	Wooster OH	Harrow ONT	Ridge-town ONT	Rock Springs PA	Brookings SD	Center-ville SD	Arling-ton WI
Century 84	17.8	17.4		16.6	14.7	18.8	17.0	20.5	17.9	17.5	15.6
Elgin (II)	15.9	15.6		15.1	12.6	16.7	16.2	19.3	18.0	16.3	18.2
A Elgin BC	15.4	16.6		14.9	13.6	17.2	16.6	18.4	17.1	16.2	16.7
Hardin (I)	13.9	15.2		13.4	10.6	15.1	14.1	15.2	14.1	15.1	13.4
Hoyt	11.9	14.9		13.0	11.6	14.2	13.5	13.9	12.7	13.6	12.6
Preston	16.6	17.9		15.8	14.8	18.0	16.3	17.5	17.3	17.2	16.5
Zane (III)	18.7	20.1		18.6	16.9	17.8	16.0	18.7	19.8	18.8	17.3
A83-172007	17.2	18.9		16.8	15.6	19.5	19.4	19.9	19.1	18.8	18.4
A83-273009	15.1	16.6		13.9	12.4	15.6	14.0	16.0	16.0	15.8	14.4
A84-284033	17.6	19.2		16.1	14.7	18.2	16.2	17.7	17.1	18.4	15.4
C1678	14.4	17.2		14.0	11.9	16.2	16.0	17.5	13.6	15.3	13.7
HC80-1742	15.4	17.2		15.6	13.9	16.9	16.2	16.6	15.9	14.7	17.1
HC80-1756	14.6	16.1		14.9	13.1	16.9	16.5	17.9	15.4	15.0	17.6
M81-381	16.3	18.8		16.5	15.1	18.8	18.6	20.6	17.7	17.8	18.4
M81-384	16.9	16.7		15.1	15.6	18.7	18.0	19.6	17.0	18.0	17.9

UNIFORM TEST II, 1986

PROTEIN (%)

Strain	Mean 4 Tests	Urbana, IL	Lafayette, IN	Waseca, MN	Mead, NE
Century 84	42.2	43.2	41.2	40.0	44.2
Elgin (II)	37.6	37.3	38.0	37.8	37.1
A Elgin BC	37.9	38.3	37.9	37.2	38.1
Hardin (I)	38.2	39.5	38.2	36.6	38.4
Hoyt	40.6	42.8	40.0	39.2	40.3
Preston	39.9	39.8	39.3	39.4	[illegible]
Zane (III)	38.9	39.4	38.1	39.2	39.0
A83-172007	39.8	41.5	40.4	38.1	39.3
A83-273009	39.5	39.5	38.8	39.4	40.4
A84-284003	38.1	39.4	37.7	36.9	38.3
C1678	38.8	39.3	38.4	39.3	38.2
HC80-1742	40.4	42.0	39.5	40.4	39.6
HC80-1756	41.2	42.9	41.4	40.1	40.5
M81-381	40.7	41.2	40.6	38.5	42.4
M81-384	39.0	39.9	39.5	37.5	38.9

OIL (%)

Strain	Mean 4 Tests	Urbana, IL	Lafayette, IN	Waseca, MN	Mead, NE
Century 84	20.0	20.4	20.4	20.3	19.0
Elgin (II)	21.3	22.4	21.5	20.5	20.8
A Elgin BC	21.6	22.8	21.9	20.7	21.1
Hardin (I)	22.1	23.1	22.3	21.4	21.6
Hoyt	20.7	21.9	21.1	19.5	20.3
Preston	20.7	21.9	21.2	19.3	20.3
Zane (III)	21.6	22.9	22.3	19.6	21.4
A83-172007	21.2	21.6	21.1	21.2	20.7
A83-273009	21.0	22.4	21.6	19.6	20.2
A84-284003	21.7	22.8	22.3	20.3	21.2
C1678	21.2	23.2	21.4	18.9	21.1
HC80-1742	19.8	21.5	20.2	18.1	19.4
HC80-1756	19.8	21.4	19.6	18.1	20.2
M81-381	21.0	22.1	21.5	20.8	19.6
M81-384	21.7	23.0	21.9	21.2	20.7

Preliminary Test IIA. 1986

Strain	Parentage	Generation Composited
BSR 101 (I)	L69U40-16-4 X A76-304020	F4
Elgin (II)	AP6(2YT) (F_4)C1	F4
Zane (III)	Cumberland X Pella	F5
E84005	Sparks X Hardin	F4
E84062	Sprite X Altona	F4
E84098	Sprite X Hardin	F4
E84108	Sprite X Hardin	F4
E84113	Sprite X Hardin	F4
E84150	Sprite X Century	F4
E84155	Sprite X L73-4673	F4
E84159	Sprite X L73-4673	F4
E84165	Sprite X L73-4673	F4
LN82-407	Sparks X Century	F5
LN82-3254	Williams 82 X Hardin	F5
LN82-3480	Williams 82 X Hardin	F5
LN82-4624	Williams 82 X L73-4673	F5
LN82-4762	Williams 82 X L73-4673	F5
LN82-4853	Williams 82 X L73-4673	F5
LN82-9648	K74-113-76-486 X Century	F5
LN83-865	BSR 201 X LN78-537	F4
LN83-1338	A78-125029 X HC76-4030	F4
LN83-1397	A78-125029 X HC76-4030	F4
M82-605	M70-484 X Century	F5
M82-660	Wells X Desoto	F5
M82-864	M73-129 X L74-3897	F5
M82-951	M74-69 X A77-112008	F5
U83-61051	Nebsoy X Elf	F8
U83-63035	Nebsoy X Beeson	F6
U83-64005	U10816 X Elf	F5
U83-64008	U10816 X Elf	F5
U83-64012	U10816 X Elf	F5
U83-64015	U10816 X Elf	F5
U83-66021	Nebsoy X Amsoy 71	F6
U83-68010	A75-203036 X L74D 674	F5
U83-68085	Nebsoy X Williams	F6
U83-75056	Hodgson X Desoto	F5

A few entries in this test matured later than Zane and should be moved to UT III for additional testing. All M strains are resistant to PR race 1 based on Minnesota tests. LN82-407 and LN83-865 have the gene Rps1-a. LN82-9648 has the genes Rps1-b and Rps3 and is sensitive to metribrezin. The strains LN82-3254, LN82-3480, LN82-4624, LN82-4762, and LN82-4853 all have the gene Rps1-k.

PRELIMINARY TEST IIA, 1986

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code	Chlorosis Score		Shattering Score	BSR	
			Ames	Manhattan	Plant N %	Stem N %
BSR 101 (I)	PGTDYIb	I	2.5	1	100	43.1
Elgin (II)	PTBDYBL	I	3.7	1	100	80.6
Zane (II)	PGBSYIb	I	3.5	1	100	60.3
E84005	PGBDYIb	I	2.8	1	100	87.1
E84062	PTBSYBL	I	2.7	1	100	74.8
E84098	PGBDYY	I	4.2	1	100	77.2
E84108	PGBDYY	I	4.0	1	100	83.8
E84113	P+WTB+TDYBL	I	4.0	1	100	72.0
E84150	P+WTBSYBL	I	3.2	1	100	87.5
E84155	WTTDYGr	I	3.2	1	100	68.4
E84159	WGTSYBf	I	3.3	1	100	68.6
E84165	P+WG+TTDYBf+Bl	I	3.5	1	100	71.9
LN82-407	WTBDYBL	I	2.5	2	100	89.4
LN82-3254	P+WTBSYGr	I	3.7	1	100	85.4
LN82-3480	PTTSYGr	I	3.5	1	100	85.8
LN82-4624	WTTDYBr	I	3.5	1	100	83.4
LN82-4762	PTTSYBL	I	3.8	1	100	91.1
LN82-4853	PTTDYY+Ib	I	3.3	1	100	80.9
LN82-9648	WTTDYBL	I	2.2	1	100	82.4
LN83-865	WGBDYBf	I	4.3	2	100	54.8
LN83-1338	WTBDYBL	I	3.2	1	100	93.6
LN83-1397	WGTDYBf	I	3.8	1	100	81.8
M82-605	PGBDYIb	I	2.5	1	100	88.9
M82-660	PGBDYIb	I	3.3	2	90	71.0
M82-864	PGBSYY	I	3.2	1	100	91.1
M82-951	PGBDYY	I	3.0	1	100	90.4
U83-61051	WGBSYBf	I	3.2	-	100	92.6
U83-63035	PGBSYIb	I	4.2	-	100	81.0
U83-64005	WTTSYBL	I	3.3	1	100	89.3
U83-64008	WTTSYBL	I	3.5	1	-	-
U83-64012	PGTSYIb	I	4.3	1	100	75.8
U83-64015	WTTSYBL	I	3.0	1	100	80.8
U83-66021	PGBSYIb	I	3.3	1	100	76.2
U83-68010	WGTDYY	I	3.8	1	100	66.3
U83-68085	WGTSYBf	I	4.0	1	100	76.9
U83-75056	PTBDYBr	I	3.2	1	100	92.8

PRELIMINARY TEST IIA, 1986

DIEASE DATA

	PR	PS	PSB	SMV
	Vickery	Lafayette		
Strain	Tolerance Score	a %	n %	a Score
BSR 101 (I)	2.9	16	8	4E
Elgin (II)	3.5	8	14	5E
Zane (II)	2.9	5	20	5E
E84005	3.8	8	40	4E
E84062	3.7	11	40	4E
E84098	3.5	8	46	1
E84108	3.1	31	30	4E
E84113	3.1	15	32	4E
E84150	3.1	39	32	3E
E84155	3.2	25	40	2E
E84159	3.0	3	30	1
E84165	3.6	16	38	3E
LN82-407	3.2	18	54	5E
LN82-3254	2.8	25	36	5E
LN82-3480	3.4	25	41	5E
LN82-4624	3.0	27	28	5E
LN82-4762	2.7	31	24	4E
LN82-4853	2.8	16	28	5E
LN82-9648	3.2	24	34	5E
LN83-865	3.1	17	14	5E
LN83-1338	3.3	11	46	4E
LN83-1397	3.2	12	16	4E
M82-605	3.9	23	36	3E
M82-660	3.2	24	60	5E
M82-864	4.1	21	48	5E
M82-951	4.2	39	22	5E
U83-61051	3.8	8	26	5E
U83-63035	3.4	15	16	2M
U83-64005	3.9	11	46	5E
U83-64008	-	29	64	5E
U83-64012	3.3	26	40	5E
U83-64015	3.4	26	36	5E
U83-66021	3.3	20	26	3E
U83-68010	3.8	7	40	5E
U83-68085	3.4	26	32	4E
U83-75056	2.9	8	40	5E

Regional Summary

Strain No. of Tests	Yield 10 bu/a	Rank 10 No.	Maturity 8 Date	Lodging 10 Score	Plant Height 10 In	Seed Quality 8 Score	Seed Size 8 g/100	Composition Protein 3 %	Oil 3 %
BSR 101 (I)	49.6	9	-5.8	1.7	35	2.2	15.7	38.6	21.4
Elgin (II)	50.1	6	9-17.3*	1.8	33	1.9	15.2	36.9	21.9
Zane (III)	51.8	2	+4.3	2.0	39	1.8	18.3	38.6	22.2
E84005	48.1	25	+1.5	1.9	37	2.1	16.4	38.0	21.8
E84062	44.8	34	-1.3	2.8	35	1.6	16.7	38.5	22.8
E84098	49.4	13	+1.9	2.5	40	1.5	15.2	36.8	23.1
E84108	48.5	22	-0.4	2.8	40	1.6	15.6	38.0	23.4
E84113	49.0	15	+2.1	2.6	39	1.6	15.7	37.8	22.4
E84150	49.6	9	-3.9	1.8	37	1.4	18.3	39.9	22.1
E84155	49.0	15	+4.3	1.5	35	1.6	16.4	39.3	22.0
E84159	50.9	4	+1.6	1.3	36	1.9	16.9	39.5	22.1
E84165	52.2	1	-0.5	1.8	34	1.3	16.7	38.2	22.6
LN82-407	48.6	21	+1.6	2.0	38	1.6	18.6	39.9	21.2
LN82-3254	50.2	5	+2.4	2.7	38	1.6	15.6	39.0	21.1
LN82-3480	47.4	26	+5.3	2.4	37	1.5	15.6	39.9	21.0
LN82-4624	49.0	15	+4.3	2.2	40	1.8	16.0	39.6	20.3
LN82-4762	48.7	20	+6.4	2.4	42	1.7	16.0	38.1	21.7
LN82-4853	48.3	24	+4.3	2.4	39	2.1	17.1	40.0	20.8
LN82-9648	51.7	3	+3.5	1.6	36	1.6	17.4	42.2	19.6
LN83-865	49.8	8	+5.8	1.9	34	1.6	17.6	39.8	21.2
LN83-1338	50.1	6	-0.4	2.5	34	1.6	15.7	41.3	21.3
LN83-1397	49.4	13	+1.1	1.8	37	1.9	14.7	41.8	20.7
M82-605	42.0	35	-8.5	1.4	32	2.2	17.4	40.7	21.3
M82-660	49.5	11	-3.0	1.7	38	1.8	15.0	40.4	21.4
M82-864	41.4	36	-5.5	1.6	33	2.2	18.1	40.8	21.7
M82-951	48.8	19	-6.0	1.5	34	1.7	15.5	40.1	21.1
U83-61051	45.1	33	0.0	1.5	33	1.7	15.9	38.8	21.3
U83-63035	46.0	29	-2.3	1.8	38	2.0	17.7	38.0	21.5
U83-64005	45.3	32	-3.1	2.1	33	1.9	16.4	40.0	21.3
U83-64008	48.5	22	-4.5	1.6	34	1.7	16.5	39.6	22.4
U83-64012	46.2	28	-1.6	1.9	35	1.7	16.5	39.9	21.6
U83-64015	46.5	27	-1.5	2.1	37	1.7	16.8	39.5	21.9
U83-66021	48.9	18	+0.3	2.4	37	1.7	16.4	39.1	21.1
U83-68010	45.5	31	+1.6	2.7	39	1.7	13.6	38.2	21.8
U83-68085	45.8	30	+1.3	2.2	39	1.8	16.4	39.5	20.8
U83-75056	49.5	11	+2.1	2.6	38	1.9	17.2	39.8	21.1

* 122 Days after planting.

PRELIMINARY TEST IIA, 1986

YIELD (bu/a)

Strain	Mean 10 Tests	Ames IA	Marshalltown IA	Urbana IL	Lafayette IN
BSR 101 (I)	49.6	55.0	52.3	58.5	45.3
Elgin (II)	50.1	48.0	47.7	64.2	45.4
Zane (III)	51.8	50.9	50.1	71.4	56.6
E84005	48.1	50.6	55.1	64.3	45.2
E84062	44 8	47.8	47.9	60.8	41.6
E84098	49.4	46.9	48.4	69.3	53.2
E84108	48.5	47.9	50.3	61.6	47.4
E84113	49.0	46.5	47.0	64.1	54.3
E84150	49.6	50.7	53.2	64.3	50.8
E84155	49.0	48.9	45.5	70.5	55.2
E84159	50.9	53.9	49.0	70.9	56.2
E84165	52.2	51.3	47.4	68.5	47.4
LN82-407	48.6	49.1	46.6	66.0	54.5
LN82-3254	50.2	46.0	47.9	67.9	45.6
LN82-3480	47.4	42.5	42.3	58.3	51.3
LN82-4624	49.0	45.3	40.5	68.3	51.8
LN82-4762	48.7	47.0	41.6	67.8	51.7
LN82-4853	48.3	39.1	44.4	63.7	51.1
LN82-9648	51.7	51.5	47.1	63.0	52.6
LN83-865	49.8	50.3	49.9	64.2	49.5
LN83-1338	50.1	51.4	52.3	64.5	48.1
LN83-1397	49.4	47.8	51.3	66.3	45.5
M82-605	42.0	50.4	51.8	40.7	35.1
M82-660	49.5	49.3	51.0	62.3	45.0
M82-864	41.4	48.3	48.5	55.4	39.8
M82-951	48.8	52.1	50.0	61.9	46.4
U83-61051	45.1	41.8	41.7	65.9	36.8
U83-63035	46.0	43.5	48.6	58.1	48.3
U83-64005	45.3	47.6	47.4	63.8	34.6
U83-64008	48.5	43.5	45.7	65.2	50.2
U83-64012	46.2	47.1	45.5	60.5	40.1
U83-64015	46.5	48.0	46.5	62.0	42.6
U83-66021	48.9	45.9	48.0	64.4	45.2
U83-68010	45.5	43.5	44.4	67.9	38.5
U83-68085	45.8	36.5	37.1	60.0	48.5
U83-75056	49.5	51.2	47.3	63.3	41.1
C.V. (%)		7.9	7.1	5.7	8.6
L.S.D. (5%)		7.5	6.7	7.3	8.3
Row Sp. (In.)		27	27	30	24
Rows/Plot		4	4	4	4
Reps		2	2	2	3

YIELD (bu/a)

Britton MI	Mead NE	Adelphia NJ	Hoytville OH	Centerville SD	Arlington WI
47.6	52.9	36.3	50.8	54.3	42.8
61.6	50.6	40.3	43.1	53.5	46.5
53.3	46.7	45.0	50.3	53.4	40.5
46.6	43.6	43.5	33.8	54.7	43.7
39.9	42.0	37.6	24.7	52.7	52.9
52.4	47.6	37.4	37.3	51.7	49.3
53.2	47.9	38.1	38.4	51.1	48.6
52.4	47.1	41.4	32.9	53.8	50.0
52.6	47.6	40.0	38.2	53.8	45.0
56.7	46.9	38.1	34.7	49.1	44.7
45.9	49.2	42.4	41.4	50.9	49.3
54.1	51.1	44.6	50.5	55.5	51.7
48.3	46.3	44.2	36.8	57.2	37.3
50.9	46.3	45.2	49.0	56.4	46.9
52.0	48.7	42.2	51.2	51.7	33.8
47.6	45.8	45.4	50.7	53.5	41.5
54.2	47.5	40.0	46.5	50.3	40.0
50.9	40.3	42.1	52.0	53.4	46.0
63.7	52.2	44.9	49.9	55.1	37.4
54.4	49.1	44.8	39.4	54.1	42.7
55.6	46.0	39.7	44.7	52.1	46.7
50.2	50.9	44.3	44.9	51.8	40.5
41.9	48.0	31.1	27.4	52.1	41.8
47.5	46.4	43.9	51.8	53.2	44.2
46.6	38.8	29.6	14.1	51.7	41.2
51.3	45.1	42.6	35.3	54.7	48.3
47.2	43.9	45.4	25.8	58.3	44.2
50.7	41.4	41.3	37.4	49.0	41.7
49.6	38.2	44.1	26.3	57.4	43.6
45.6	46.4	48.2	41.8	53.3	45.0
43.2	45.6	45.8	39.4	52.6	41.9
42.1	44.7	42.3	43.4	51.6	41.3
58.1	48.1	45.2	37.9	50.3	46.1
50.7	43.0	46.5	33.5	50.1	36.8
50.9	38.1	44.9	40.4	52.0	49.7
51.2	48.1	46.2	51.8	55.3	39.1
8.8	8.6	13.5	16.9	6.2	6.5
9.0	8.0	9.6	14.6	NS	5.8
20	30	30	30	30	30
4	2	4	4	4	4
2	2	2	2	2	2

PRELIMINARY TEST IIA, 1986

YIELD RANK

Strain	Yield Rank	Ames IA	Marshalltown IA	Urbana IL	Lafayette IN
BSR 101 (I)	9	1	3	22	24
Elgin (II)	6	17	19	18	23
Zane (III)	2	8	9	1	1
E84005	25	10	1	16	25
E84062	34	20	17	29	29
E84098	13	25	15	4	6
E84108	22	19	8	28	18
E84113	15	26	24	20	5
E84150	9	9	2	16	12
E84155	15	15	28	3	3
E84159	4	2	12	2	2
E84165	1	6	20	5	18
LN82-407	21	14	25	11	4
LN82-3254	5	27	17	7	21
LN82-3480	26	33	32	33	10
LN82-4624	15	29	35	6	8
LN82-4762	20	24	34	9	9
LN82-4853	24	35	30	22	11
LN82-9648	3	4	23	24	7
LN83-865	8	12	11	18	14
LN83-1338	6	5	3	14	17
LN83-1397	13	20	6	10	22
M82-605	35	11	5	36	35
M82-660	11	13	7	25	27
M82-864	36	16	14	35	32
M82-951	19	3	10	27	20
U83-61051	33	34	33	12	34
U83-63035	29	30	13	34	16
U83-64005	32	22	20	21	36
U83-64008	22	30	27	13	13
U83-64012	28	23	28	30	31
U83-64015	27	17	26	26	28
U83-66021	18	28	16	15	25
U83-68010	31	30	30	7	33
U83-68085	30	26	36	31	15
U83-75056	11	17	22	23	30

PRELIMINARY TEST IIA, 1986

YIELD RANK

Britton MI	Mead NE	Adelphia NJ	Hoytville OH	Centerville SD	Arlington WI
25	1	34	5	10	21
2	5	26	15	14	11
9	18	9	8	16	29
29	29	18	29	8	19
36	31	32	35	20	1
12	13	33	25	26	5
10	12	30	21	30	7
12	16	24	31	12	3
11	13	27	22	12	14
4	17	30	28	35	16
31	6	20	17	31	5
8	3	13	7	5	2
24	21	15	26	3	34
17	21	7	10	4	9
14	8	22	4	26	36
25	24	5	6	14	26
7	15	27	11	32	31
17	33	23	1	16	13
1	2	10	9	7	33
6	7	12	19	11	22
5	23	29	13	22	10
22	4	14	12	25	29
35	11	35	32	22	24
27	19	17	2	19	17
29	34	36	36	26	28
15	26	19	27	8	8
28	28	5	34	1	17
20	32	25	24	36	25
23	35	16	33	2	20
32	19	1	16	18	14
33	25	4	19	21	23
34	27	21	14	29	27
3	9	7	23	32	12
20	30	2	30	34	35
17	36	10	18	24	4
16	9	3	2	6	32

PRELIMINARY TEST IIA, 1986

MATURITY (Date)

Strain	Mean 8 Tests	Ames IA	Marshalltown IA	Urbana IL	Lafayette IN
BSR 101 (I)	-5.8	-4		-7	-8
Elgin (II)	9-17.3	9-21		8-30	9-10
Zane (III)	+4.3	+2		+6	+7
E84005	+1.5	0		+3	+1
E84062	-1.3	-2		-1	+2
E84098	+1.9	+1		+1	+4
E84108	-0.4	-2		-1	+1
E84113	+2.1	0		+3	+6
E84150	-3.9	-6		-2	-6
E84155	+4.3	+6		+6	+9
E84159	+1.6	+2		+4	+3
E84165	-0.5	+1		+1	+4
LN82-407	+1.6	+2		+3	+2
LN82-3254	+2.4	+2		+4	+5
LN82-3480	+5.3	+6		+9	+8
LN82-4624	+4.3	+5		+7	+7
LN82-4762	+6.4	+8		+8	+8
LN82-4853	+4.3	+2		+7	+8
LN82-9648	+3.5	+2		+5	+5
LN83-865	+5.8	+6		+10	+8
LN83-1338	-0.4	0		+1	0
LN83-1397	+1.1	+2		+3	+2
M82-605	-8.5	-8		-9	-9
M82-660	-3.0	-4		-2	-5
M82-864	-5.5	-8		-3	-9
M82-951	-6.0	-6		-4	-8
U83-61051	0.0	0		+4	-2
U83-63035	-2.3	-1		-1	-2
U83-64005	-3.1	-2		+1	-4
U83-64008	-4.5	-6		-1	-4
U83-64012	-1.6	-2		+1	-2
U83-64015	-1.5	-2		+1	-1
U83-66021	+0.3	0		0	-3
U83-68010	+1.6	0		+4	+6
U83-68085	+1.3	0		+4	+3
U83-75056	+2.1	0		+2	+2
Date Planted	5-18	5-23		5-5	5-23
Days to Mature	126	121		139	110

MATURITY (Date)

Britton MI	Mead NE	Adelphia NJ	Hoytville OH	Centerville SD	Arlington WI*
-7	-6	-7	-7	0	+1
9-19	9-22	9-27	9-15	9-26	10-20
+2	+5	+3	+4	+5	+2
-1	+2	+5	+1	+1	+1
-6	-2	0	-4	+3	+1
+1	+4	+2	0	+2	0
-1	+1	-1	-1	+1	+2
-1	+3	+2	+2	+2	0
-5	-6	-4	-2	0	0
+2	+5	-1	+4	+3	+1
-3	+3	-1	+3	+2	0
-5	0	-4	-2	+1	0
-2	+5	-1	+2	+2	+2
+2	+4	-2	+1	+3	+1
+4	+6	-1	+5	+5	+2
+2	+6	-1	+4	+4	+2
+4	+8	+3	+5	+7	+2
+3	+6	-2	+3	+7	+2
+3	+4	+3	+4	+2	+2
+3	+6	+4	+7	+6	+2
-2	-1	-3	+2	0	0
-2	+5	-3	0	+2	+2
-8	-11	-9	-5	-9	-13
-5	-1	-4	-3	0	-2
-8	-8	-1	-6	-1	-2
-7	-9	-7	-6	-1	0
-3	0	-1	0	+2	+2
-4	-2	-5	-5	+2	+1
-3	-9	-5	-3	0	0
-8	-5	-5	-5	-2	-2
-5	-1	-5	0	+1	-1
-5	+1	-4	-2	0	0
+1	+2	-3	+1	+4	+1
-2	+3	-1	0	+3	-1
+1	+1	-3	+1	+3	0
+1	+4	0	+4	+4	+2
5-10	5-21	5-30	5-6	5-22	5-21
132	124	120	132	127	152

* Not included in mean.

PRELIMINARY TEST IIA, 1986

LODGING (Score)

Strain	Mean 10 Tests	Ames IA	Marshalltown IA	Urbana IL	Lafayette IN
BSR 101 (I)	1.7	1.5	1.6	1.0	1.3
Elgin (II)	1.8	1.5	1.9	2.0	1.3
Zane (III)	2.0	1.6	1.7	1.5	2.3
E84005	1.9	1.6	1.9	1.5	1.5
E84062	2.8	2.1	1.8	3.0	3.3
E84098	2.5	2.2	2.1	3.5	3.5
E84108	2.8	2.4	2.3	4.0	4.0
E84113	2.6	2.0	2.1	3.5	3.3
E84150	1.8	1.9	1.8	1.0	1.3
E84155	1.5	1.6	1.6	1.0	1.5
E84159	1.3	1.4	1.5	1.0	1.0
E84165	1.8	1.7	1.7	1.0	2.0
LN82-407	2.0	1.8	2.0	1.5	2.3
LN82-3254	2.7	2.9	1.9	3.0	3.5
LN82-3480	2.4	2.4	2.1	3.0	2.5
LN82-4624	2.2	2.0	1.8	2.0	2.8
LN82-4762	2.4	2.1	1.8	3.5	2.8
LN82-4853	2.4	2.3	1.9	2.5	2.5
LN82-9648	1.6	1.7	1.6	1.0	1.3
LN83-865	1.9	1.8	1.7	1.5	1.8
LN83-1338	2.5	1.9	2.0	2.0	3.3
LN83-1397	1.8	1.6	1.9	1.5	1.3
M82-605	1.4	1.6	1.5	1.0	1.0
M82-660	1.7	1.6	1.7	1.0	1.3
M82-864	1.6	1.7	1.7	1.0	1.0
M82-951	1.5	1.6	1.5	1.5	1.0
U83-61051	1.5	1.5	1.8	1.0	1.3
U83-63035	1.8	1.7	1.7	1.5	1.5
U83-64005	2.1	1.7	1.9	1.5	3.5
U83-64008	1.6	1.5	1.7	1.0	2.0
U83-64012	1.9	1.7	1.7	2.0	1.8
U83-64015	2.1	1.7	1.7	2.5	2.8
U83-66021	2.4	2.0	2.0	3.0	2.5
U83-68010	2.7	2.2	2.0	2.5	3.5
U83-68085	2.2	1.7	1.8	2.5	3.5
U83-75056	2.6	2.1	1.9	3.0	3.3

PRELIMINARY TEST IIA, 1986

LODGING (Score)

Britton MI	Mead NE	Adelphia NJ	Hoytville OH	Centerville SD	Arlington WI
1.5	1.3	2.0	1.4	2.0	3.3
1.0	2.0	2.0	1.3	2.0	3.3
2.0	1.3	1.5	1.3	3.0	3.3
2.0	1.5	1.5	1.7	2.0	3.5
3.5	2.0	3.0	1.2	4.0	4.0
2.5	2.0	2.0	1.4	2.5	3.3
2.5	2.3	2.5	1.9	2.0	3.8
2.5	2.0	2.5	1.4	3.5	3.5
1.5	1.8	1.5	1.3	2.0	3.8
1.0	1.3	1.0	1.3	1.0	3.5
1.0	1.0	1.0	1.2	1.0	3.3
1.5	1.8	1.0	1.5	1.5	3.8
2.0	1.8	1.0	1.5	2.5	3.5
3.0	2.0	1.5	2.1	3.5	4.0
2.5	2.0	1.0	1.4	3.0	3.8
2.0	2.0	1.0	1.6	3.0	4.0
2.0	2.3	1.0	1.5	3.5	3.8
2.5	2.3	1.5	2.1	2.5	4.0
1.0	1.5	1.0	1.5	1.5	4.0
1.5	2.0	1.0	1.3	2.5	4.0
3.0	1.8	2.0	2.0	3.5	3.3
2.0	1.5	1.0	1.3	3.0	2.8
1.0	1.0	1.0	1.1	1.0	3.3
2.0	2.0	1.0	1.4	2.5	2.3
1.0	1.0	1.0	1.2	3.0	3.3
1.0	1.0	1.0	1.2	1.5	3.3
1.5	1.0	1.0	1.2	1.5	3.3
2.5	1.3	1.0	1.2	2.5	3.3
2.0	1.5	1.0	1.3	3.0	3.8
2.0	1.3	1.0	1.3	2.0	2.5
2.5	2.0	1.0	1.3	1.5	3.3
3.0	2.0	1.0	1.4	2.0	3.3
2.5	1.8	1.5	1.3	3.0	4.0
3.0	2.5	2.0	1.3	3.0	4.5
2.5	2.0	1.0	1.3	2.5	3.5
3.0	2.0	1.5	1.8	4.0	3.3

PRELIMINARY TEST IIA, 1986

PLANT HEIGHT (Inches)

Strain	Mean 10 Tests	Ames IA	Marshalltown IA	Urbana IL	Lafayette IN
BSR 101 (I)	35	36	37	39	34
Elgin (II)	33	33	36	40	32
Zane (III)	39	40	44	42	38
E84005	37	34	40	38	39
E84062	35	36	44	36	37
E84098	40	42	44	41	43
E84108	40	36	44	42	44
E84113	39	36	44	44	41
E84150	37	36	39	39	38
E84155	35	38	42	39	36
E84159	36	38	40	38	38
E84165	34	37	36	35	37
LN82-407	38	38	44	42	38
LN82-3254	38	38	41	40	42
LN82-3480	37	37	45	44	40
LN82-4624	40	39	42	45	40
LN82-4762	42	46	48	47	46
LN82-4853	39	38	44	43	41
LN82-9648	36	35	40	39	36
LN83-865	34	36	38	41	32
LN83-1338	34	32	36	40	34
LN83-1397	37	38	44	44	37
M82-605	32	32	37	34	28
M82-660	38	35	46	40	37
M82-864	33	34	38	35	34
M82-951	34	33	38	37	33
U83-61051	33	33	40	38	31
U83-63035	38	38	44	44	37
U83-64005	33	32	34	39	32
U83-64008	34	34	35	38	34
U83-64012	35	35	36	39	36
U83-64015	37	37	40	42	40
U83-66021	37	34	41	41	35
U83-68010	39	40	43	47	39
U83-68085	39	38	42	47	38
U83-75056	38	35	39	42	39

PRELIMINARY TEST IIA, 1986

PLANT HEIGHT (Inches)

Britton MI	Mead NE	Adelphia NJ	Hoytville OH	Centerville SD	Arlington WI
31	39	32	31	35	37
30	35	27	28	34	34
39	39	34	36	39	39
34	42	32	31	40	36
32	38	31	25	37	37
41	47	39	28	41	38
40	46	40	33	41	38
38	43	37	25	39	41
38	40	34	26	40	39
33	39	28	25	37	36
32	40	30	24	40	37
34	37	29	27	36	35
36	42	33	30	38	37
40	40	34	32	37	38
40	42	30	27	34	35
38	45	34	33	42	37
40	51	38	29	40	38
43	42	30	35	38	36
37	37	30	28	36	37
34	39	27	24	34	35
37	36	26	29	33	34
39	45	28	28	34	37
29	31	24	22	41	37
32	44	32	35	38	39
31	34	28	18	38	38
30	36	29	25	37	39
33	34	28	22	36	35
37	38	32	28	40	39
35	34	28	25	34	35
34	39	28	31	36	34
36	39	30	30	36	36
35	39	29	29	39	36
36	42	32	24	43	38
40	45	35	28	41	35
40	40	31	27	42	40
37	41	34	37	38	39

PRELIMINARY TEST IIA, 1986

SEED QUALITY (Score)

Strain	Mean 8 Tests	Ames IA	Marshalltown IA	Urbana IL	Lafayette IN
BSR 101 (I)	2.2	2.0		1.7	2.5
Elgin (II)	1.9	3.0		1.7	1.5
Zane (III)	1.8	2.0		1.7	1.5
E84005	2.1	3.0		2.3	1.5
E84062	1.6	2.0		1.5	1.5
E84098	1.5	1.0		1.5	2.0
E84108	1.6	2.0		1.5	2.0
E84113	1.6	2.0		1.5	2.0
E84150	1.4	1.0		1.5	2.0
E84155	1.6	2.0		1.3	1.0
E84159	1.9	3.0		1.5	1.0
E84165	1.3	2.0		1.3	1.0
LN82-407	1.6	1.0		1.5	1.5
LN82-3254	1.6	2.0		1.3	1.0
LN82-3480	1.5	1.0		1.7	1.0
LN82-4624	1.8	2.0		1.5	2.0
LN82-4762	1.7	2.0		1.8	1.0
LN82-4853	2.1	2.0		1.5	1.5
LN82-9648	1.6	1.0		1.5	1.0
LN83-865	1.6	2.0		1.3	1.5
LN83-1338	1.6	2.0		1.5	1.5
LN83-1397	1.9	2.0		1.7	1.5
M82-605	2.2	2.0		1.7	2.5
M82-660	1.8	2.0		2.1	2.0
M82-864	2.2	1.0		1.9	2.5
M82-951	1.7	1.0		1.9	2.0
U83-61051	1.7	2.0		1.5	1.5
U83-63035	2.0	2.0		2.3	2.0
U83-64005	1.9	2.0		2.1	2.0
U83-64008	1.7	2.0		2.0	1.5
U83-64012	1.7	1.0		2.0	2.0
U83-64015	1.7	2.0		1.9	1.5
U83-66021	1.7	2.0		1.7	1.5
U83-68010	1.7	2.0		1.8	1.5
U83-68085	1.8	2.0		1.7	1.0
U83-75056	1.9	2.0		2.0	1.5

PRELIMINARY TEST IIA, 1986

SEED QUALITY (Score)

Britton MI	Mead NE	Adelphia NJ	Hoytville OH	Centerville SD	Arlington WI
	2.5	2.0	2.0	2.0	3.0
	2.0	1.0	1.8	2.0	2.0
	2.3	1.0	1.6	2.0	2.0
	2.5	1.5	2.0	2.0	2.0
	1.3	1.0	1.8	2.0	2.0
	2.0	1.0	1.8	2.0	1.0
	1.5	1.0	1.6	2.0	1.0
	1.5	1.0	1.6	2.0	1.0
	1.3	1.0	1.5	2.0	1.0
	1.8	1.0	1.3	2.0	2.0
	2.5	1.5	1.4	2.0	2.0
	1.0	1.0	1.3	2.0	1.0
	2.0	1.0	1.9	2.0	2.0
	2.0	1.0	1.3	3.0	1.0
	2.0	1.0	1.5	2.0	2.0
	2.3	1.0	1.6	2.0	2.0
	1.8	1.0	1.8	2.0	2.0
	2.3	1.5	1.8	3.0	3.0
	1.8	1.0	1.7	2.0	3.0
	2.0	1.0	1.7	1.0	2.0
	2.0	1.0	1.8	1.0	1.0
	2.3	1.0	1.7	3.0	2.0
	2.3	1.5	2.5	2.0	3.0
	2.0	1.0	1.5	2.0	2.0
	2.0	1.0	3.0	2.0	4.0
	2.0	1.0	1.7	2.0	2.0
	1.5	1.5	1.3	2.0	2.0
	2.3	1.0	2.0	3.0	1.0
	2.0	1.0	2.0	2.0	2.0
	1.0	1.0	1.3	2.0	3.0
	2.0	1.0	1.6	2.0	2.0
	1.8	1.0	1.4	2.0	2.0
	2.3	1.0	1.7	2.0	1.0
	2.0	1.0	1.4	2.0	2.0
	3.0	1.0	1.7	2.0	2.0
	2.5	1.0	1.8	2.0	2.0

PRELIMINARY TEST IIA, 1986

SEED SIZE (g/100)

Strain	Mean 8 Tests	Ames IA	Marshalltown IA	Urbana IL	Lafayette IN
BSR 101 (I)	15.7	15.6		16.7	15.6
Elgin (II)	15.2	15.3		15.6	14.6
Zane (III)	18.3	17.7		18.9	19.3
E84005	16.4	16.7		17.2	16.7
E84062	16.7	17.2		17.6	16.7
E84098	15.2	15.9		16.2	15.3
E84108	15.6	16.0		17.1	14.8
E84113	15.7	15.2		16.9	16.0
E84150	18.3	18.9		20.0	19.1
E84155	16.4	17.3		17.2	16.3
E84159	16.9	17.9		18.6	17.2
E84165	16.7	16.4		16.7	16.5
LN82-407	18.6	20.6		20.0	19.5
LN82-3254	15.6	16.2		16.5	16.0
LN82-3480	15.6	15.4		15.9	16.6
LN82-4624	16.0	16.3		16.2	16.3
LN82-4762	16.0	15.8		16.9	16.0
LN82-4853	17.1	17.3		17.9	17.7
LN82-9648	17.4	18.3		17.3	16.3
LN83-865	17.6	17.1		18.7	17.9
LN83-1338	15.7	17.2		17.3	16.3
LN83-1397	14.7	14.9		16.0	14.5
M82-605	17.4	18.8		17.6	15.1
M82-660	15.0	15.4		16.4	14.8
M82-864	18.1	18.3		21.1	16.6
M82-951	15.5	15.9		17.0	14.4
U83-61051	15.9	16.5		18.7	15.4
U83-63035	17.7	17.4		18.8	18.7
U83-64005	16.4	17.6		17.3	15.8
U83-64008	16.5	16.9		18.1	16.8
U83-64012	16.5	16.7		17.7	16.6
U83-64015	16.8	17.5		17.9	17.3
U83-66021	16.4	16.1		18.3	15.7
U83-68010	13.6	13.4		15.7	15.3
U83-68085	16.4	14.2		18.7	17.9
U83-75056	17.2	17.3		17.8	17.3

PRELIMINARY TEST IIA, 1986

SEED SIZE (g/100)

Britton MI	Mead NE	Adelphia NJ	Hoytville OH	Centerville SD	Arlington WI
16.0	16.3		14.8	16.7	14.1
15.8	16.5		13.5	15.9	14.4
19.2	20.0		18.2	18.4	14.6
16.9	16.8		15.8	16.8	14.1
16.9	16.7		15.0	17.7	16.0
15.1	16.7		13.4	15.9	13.3
15.8	18.0		14.2	15.8	13.4
16.1	16.2		13.4	17.2	14.7
18.7	18.9		16.1	18.6	16.3
16.1	18.3		14.8	17.2	14.2
15.4	18.3		15.4	18.0	14.6
14.3	17.2		13.7	16.2	14.0
18.5	19.7		17.1	19.2	14.1
14.5	16.6		13.9	16.4	14.6
16.3	17.0		13.9	15.8	13.5
15.9	17.3		15.0	16.7	14.0
16.0	18.2		13.9	17.0	13.9
17.1	18.9		15.9	17.7	13.9
17.8	19.6		16.6	17.6	15.7
17.2	19.2		15.8	19.5	15.1
15.6	16.8		14.1	15.0	13.5
13.4	16.6		13.2	14.9	14.0
19.2	19.2		17.0	18.1	14.0
15.0	15.7		13.2	15.6	13.6
19.0	17.8		15.9	20.7	15.6
15.4	15.9		14.1	16.3	15.0
16.0	16.5		14.1	17.1	13.2
19.1	17.3		16.1	19.3	14.8
18.7	16.1		13.7	17.0	14.7
16.5	17.5		14.3	17.0	14.6
16.0	17.8		15.0	18.4	13.4
17.2	17.8		14.4	17.0	15.2
18.0	16.8		14.4	17.5	14.4
13.3	15.5		11.4	14.1	11.8
16.8	17.7		14.3	18.1	13.7
17.4	17.9		17.4	18.3	14.2

PRELIMINARY TEST IIA, 1986

PROTEIN (%)

Strain	Mean 4 Tests	Urbana, IL	Lafayette, IN	Mead, NE	Hoytville, OH
BSR 101 (I)	38.6	39.9	38.8	37.6	38.0
Elgin (II)	36.9	37.0	38.1	37.0	35.5
Zane (II)	38.6	38.3	38.7	40.9	36.4
E84005	38.0	38.9	37.5	39.0	36.6
E84062	38.5	39.1	38.9	37.0	38.9
E84098	36.8	37.1	37.1	36.1	37.0
E84108	38.0	38.4	37.5	38.4	37.6
E84113	37.8	38.9	37.7	37.2	37.3
E84150	39.9	40.4	40.1	39.5	39.4
E84155	39.3	38.5	38.9	41.4	38.5
E84159	39.5	38.8	39.6	40.9	38.6
E84165	38.2	39.0	37.7	38.3	37.8
LN82-407	39.9	40.3	39.9	41.2	38.3
LN82-3254	39.0	37.8	38.7	41.1	38.4
LN82-3480	39.9	39.3	39.5	40.5	40.1
LN82-4624	39.6	38.4	38.7	41.9	39.2
LN82-4762	38.1	37.2	37.9	40.9	36.4
LN82-4853	40.0	39.0	39.5	42.8	38.7
LN82-9648	42.2	41.5	41.0	44.1	42.0
LN83-865	39.8	39.5	39.6	39.6	40.4
LN83-1338	41.3	41.3	41.1	42.7	40.2
LN83-1397	41.8	41.7	41.8	42.7	40.9
M82-605	40.7	41.8	41.2	40.2	39.5
M82-660	40.4	39.6	40.2	42.4	39.5
M82-864	40.8	40.3	40.1	40.3	42.3
M82-951	40.1	40.0	39.1	41.8	39.6
U83-61051	38.8	39.1	38.6	39.3	38.1
U83-63035	38.0	37.6	38.6	37.6	37.8
U83-64005	40.0	41.7	39.3	39.6	39.4
U83-64008	39.6	40.9	39.9	39.4	38.3
U83-64012	39.9	39.9	39.5	41.3	38.7
U83-64015	39.5	40.2	39.4	40.9	37.3
U83-66021	39.1	39.6	37.3	40.5	38.8
U83-68010	38.2	37.1	39.4	38.3	38.0
U83-68085	39.5	38.9	40.2	40.4	38.6
U83-75056	39.8	39.5	39.7	40.8	39.1

PRELIMINARY TEST IIA, 1986

OIL (%)

Strain	Mean 4 Tests	Urbana, IL	Lafayette, IN	Mead, NE	Hoytville, OH
BSR 101 (I)	21.4	22.6	21.4	20.8	20.8
Elgin (II)	21.9	23.7	21.7	20.9	21.4
Zane (II)	22.2	24.0	22.2	21.3	21.4
E84005	21.8	22.3	22.3	21.1	21.4
E84062	22.8	24.4	22.3	23.2	21.4
E84098	23.1	24.7	22.9	23.0	21.8
E84108	23.4	25.2	23.4	23.1	21.9
E84113	22.4	23.6	22.4	22.3	21.4
E84150	22.1	23.2	21.1	21.7	21.3
E84155	22.0	23.4	22.5	20.9	21.1
E84159	22.1	23.0	22.0	21.5	21.9
E84165	22.6	23.8	22.6	22.2	21.6
LN82-407	21.2	22.8	21.2	20.1	20.5
LN82-3254	21.1	22.7	21.2	19.6	20.9
LN82-3480	21.0	22.8	21.6	20.1	19.6
LN82-4624	20.3	22.2	20.6	19.5	19.0
LN82-4762	21.7	23.3	22.0	20.0	21.4
LN82-4853	20.8	23.0	20.3	19.8	20.2
LN82-9648	19.6	20.5	20.1	19.0	18.7
LN83-865	21.2	21.7	21.2	20.9	21.0
LN83-1338	21.3	22.7	21.9	20.0	20.6
LN83-1397	20.7	21.6	20.0	19.4	21.6
M82-605	21.3	21.9	21.4	21.0	20.9
M82-660	21.4	23.4	21.5	19.8	20.9
M82-864	21.7	23.3	22.0	21.6	19.8
M82-951	21.1	22.7	21.1	19.4	21.2
U83-61051	21.3	22.4	21.7	20.6	20.5
U83-63035	21.5	22.9	20.5	21.7	20.8
U83-64005	21.3	21.5	21.7	20.6	21.4
U83-64008	22.4	23.9	21.4	22.2	22.1
U83-64012	21.6	23.0	22.4	20.2	20.9
U83-64015	21.9	23.3	21.1	20.8	22.4
U83-66021	21.1	22.2	22.3	19.9	20.0
U83-68010	21.8	23.9	21.1	21.4	20.9
U83-68085	20.8	21.6	20.9	20.1	20.6
U83-75056	21.1	23.0	20.6	20.3	20.3

Preliminary Test IIB, 1986

Strain	Parentage	Generation Composited
BSR 101 (I)	L69U40-16-4 X A76-304020	F4
Elgin (II)	AP6(2YT) (F_4)C1	F4
Zane (III)	Cumberland X Pella	F5
A85-193026	Elgin X Midwest Oilseeds 2050	F5
A85-291001	Elgin X Asgrow A1937	F5
A85-291024	Pride B203 X Midwest Oilseeds 3010	F5
A85-292023	Midwest Oilseeds 3010 X A80-245023	F5
A85-292033	A79-135010 X Asgrow A1937	F5
A85-293005	A79-331028 X Asgrow A3127	F5
A85-293030	Midwest Oilseeds 3010 X A80-344003	F5
A85-293032	A80-344003 X Elgin	F5
A85-293033	Pride B203 X Midwest Oilseeds 2050	F5
A80-294054	A79-334010 X A80-247007	F5
A85-295053	A80-245022 X Elgin	F5
A85-296052	Pride B203 X Midwest Oilseeds 3010	F5
A85-298051	Midwest Oilseeds 3010 X A80-245022	F5
A85-298054	Pride B203 X Midwest Oilseeds 3010	F5
A85-298055	HW79015 X A78-123018	F5
C1689	A77-314013 X Lakota	F5
C1690	A77-314013 X Lakota	F5
C1691	A77-314013 X Dawson	F5
HM8530	Gold Tag 1250 X HW79022	F5
HM8536	HW79149 X HW79022	F5
HM8539	PMGT-C2S1-116-18	S3
Hoyt	Harcor X Elf	F5
C1696	Hobbit X Amsoy 71 dt	F6
HC82-294	L70T543G X L74D-619	F5
HC82-3667	Sprite X Gnome	F5
HC82-4024	Sprite X K74- 104-76-167	F5
HC82-4163	Hobbit X Gnome	F5
HC82-4176	Hobbit X Gnome	F5
HC82-4692	Sprite X Gnome	F5
HC83-2458	Sprite X L77-1836	F5
HC83-2707	HC76-4030 X Hobbit	F5
HC83-2808	HC76-3840 X Williams 82	F5
HC83-2902	HC76-644 X HC76-4030	F5
HC83-3958	Hobbit X LN1060	F5

PRELIMINARY TEST IIB, 1986

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code		Chlorosis Score Ames	Shattering Score Manhattan
BSR 101 (I)	PGTDYIb	I	2.5	1
Elgin (II)	PTBDYBl	I	3.2	1
Zane (III)	PGBSYIb	I	3.0	1
A85-193026	WT+GB+TDYY+Bf+Br	I	2.7	1
A85-291001	PTBDYBl	I	4.2	1
A85-291024	WT+GBDYBr	I	4.7	1
A85-292023	WTBDYBr	I	4.0	1
A85-292033	P+BDYBr	I	4.2	1
A85-293005	WTTDYBr	I	3.0	1
A85-293030	PTBDYBr	I	3.0	1
A85-293032	P+WTBDYBl	I	3.2	1
A85-293033	P+WGBDYY	I	3.0	1
A85-294054	WTBDYBr	I	2.8	2
A85-295053	WTBDYBl+Br	I	3.8	1
A85-296052	WTBDYBr	I	3.5	1
A85-298051	WTBDYBr	I	2.8	1
A85-298054	WG+TBDYBr	I	3.4	1
A85-298055	PGBDYIb	I	3.8	2
C1689	P+WTBDYBl	I	3.2	1
C1690	PTBDYBl	I	3.3	1
C1691	P+WTBDYY	I	2.8	1
HM8530	PTTDYBr	I	4.0	-
HM8536	PTBDYBl	I	3.3	-
HM8539	WTBSYBl	I	3.7	1
Hoyt	PTTSYBl	D	3.5	1
C1696	PTTDYGr	D	2.7	1
HC82-294	PTTDYBr	D	3.2	1
HC82-3667	P+WTTDYBl	D	3.2	1
HC82-4024	WTTSYBl	D	3.2	1
HC82-4163	PTTSYBl	D	2.7	1
HC82-4176	PTTDYBl	D	2.5	1
HC82-4692	WTTSYBl	D	3.5	1
HC83-2458	WTTSYBl	D	3.0	1
HC83-2707	PTTDYBl	D	2.5	1
HC83-2808	PTTDYBr	D	3.2	1
HC83-2902	PTTDYBl	D	3.5	1
HC83-3958	WTTSYBl	D	2.5	1

PRELIMINARY TEST IIB, 1986

DISEASE DATA

	BSR		PR	PS	PSB	SMV
	Plant	Stem	Vickery	Lafayette		
Strain	N %	N %	Tolerance Score	a %	N %	a Score
BSR 101 (I)	70	18.0	3.4	16	8	4E
Elgin (II)	100	89.5	3.3	8	14	5E
Zane (III)	100	77.0	3.2	5	20	5E
A85-193026	100	86.7	3.4	14	38	5E
A85-291001	100	81.9	3.5	9	48	5E
A85-291024	100	88.4	3.4	12	42	5E
A85-292023	90	70.0	3.2	13	20	5E
A85-292033	100	74.1	3.7	21	34	5E
A85-293005	100	68.1	3.5	6	16	5E
A85-293030	100	69.8	3.4	25	24	5E
A85-293032	100	79.9	3.3	16	18	5E
A85-293033	100	91.1	3.8	19	32	5E
A85-294054	100	89.8	3.8	13	14	5E
A85-295053	100	96.3	3.3	11	20	5E
A85-296052	100	80.2	3.5	6	30	5E
A85-298051	100	74.8	3.3	5	20	5E
A85-298054	100	87.0	2.8	7	12	5E
A85-298055	100	97.7	3.6	16	24	3E
C1689	100	76.1	3.1	18	32	5E
C1690	100	86.3	3.7	7	30	5E
C1691	100	76.5	3.8	27	40	5E
HM8530	100	83.0	2.7	15	22	4E
HM8536	100	87.7	2.8	12	58	5E
HM8539	100	91.8	3.1	18	50	5E
Hoyt	100	95.7	3.8	6	48	5E
C1696	100	76.7	4.1	10	30	5E
HC82-294	100	90.5	3.8	15	28	5E
HC82-3667	100	96.8	2.9	4	36	4E
HC82-4024	100	100	3.4	3	42	4E
HC82-4163	100	100	2.8	6	30	5E
HC82-4176	100	98.2	3.4	5	34	4E
HC82-4692	100	92.3	3.6	6	26	4E
HC83-2458	100	98.0	3.0	11	42	4E
HC83-2707	100	92.9	3.3	7	38	4E
HC83-2808	100	96.0	3.3	13	26	3E
HC83-2902	100	97.5	3.4	4	38	4E
HC83-3958	100	97.1	3.2	2	40	5E

PRELIMINARY TEST IIB, 1986
Regional Summary

Strain No. of Tests	Yield 10 bu/a	Rank 10 No.	Maturity 8 Date	Lodging 10 Score	Plant Height 10 In	Seed Quality 8 Score	Seed Size 8 g/100	Composition Protein %	Oil %
BSR 101 (I)	48.3	26	-3.9	1.8	35	2.1	15.7	39.0	20.9
Elgin (II)	50.2	15	9-16.5*	1.7	33	1.7	15.4	37.7	21.7
Zane (III)	53.2	4	+4.3	1.7	38	1.7	18.6	38.9	21.7
A85-193026	51.3	8	+1.1	2.2	38	2.0	13.6	36.9	22.6
A85-291001	53.8	3	+0.8	2.1	37	1.7	14.4	38.2	21.3
A85-291024	49.0	23	+0.1	2.7	37	1.5	14.6	40.2	21.0
A85-292023	52.0	7	+0.9	2.4	39	1.5	13.2	39.4	20.9
A85-292033	49.2	22	-1.9	2.2	37	1.8	16.3	39.8	21.3
A85-293005	50.0	17	+8.1	1.9	39	1.9	15.3	38.9	20.7
A85-293030	52.8	5	+8.0	1.9	36	1.6	15.5	39.7	21.0
A85-293032	54.2	2	+3.8	1.4	36	1.7	17.0	39.5	21.1
A85-293033	52.6	6	+3.4	2.0	38	1.9	15.2	37.9	22.2
A85-294054	46.7	35	+3.9	3.1	35	1.9	14.4	38.8	21.4
A85-295053	47.7	31	+2.4	1.8	37	2.0	14.2	39.2	21.2
A85-296052	47.8	30	+7.8	2.0	36	2.4	14.3	38.9	21.3
A85-298051	54.9	1	+6.3	2.0	37	1.7	14.6	39.6	20.7
A85-298054	48.8	24	+10.1	2.3	40	2.2	16.2	39.9	20.3
A85-298055	47.7	31	+4.8	2.0	39	2.0	14.7	36.1	22.1
C1689	48.2	28	+3.1	2.4	46	1.8	14.1	40.5	20.9
C1690	48.0	29	+2.5	1.8	40	2.2	15.3	39.9	21.6
C1691	50.6	12	+3.9	2.0	41	1.8	16.1	39.1	21.6
HM8530	50.0	17	+5.0	1.8	39	1.8	18.8	39.9	19.5
HM8536	48.3	26	-3.9	2.4	36	1.7	16.6	41.2	21.0
HM8539	51.0	11	+3.5	2.6	41	1.7	17.6	38.4	21.6
Hoyt	51.3	8	+2.8	1.5	24	1.4	13.9	40.2	21.1
C1696	45.0	37	+5.9	1.8	33	1.8	14.2	38.3	21.5
HC82-294	50.2	15	+5.9	1.4	25	1.5	15.1	40.1	21.2
HC82-3667	50.4	13	+4.8	1.4	26	1.3	15.5	39.5	21.5
HC82-4024	48.5	25	+5.9	1.4	23	1.4	17.7	40.5	20.6
HC82-4163	51.1	10	+6.4	1.3	23	1.4	15.3	37.7	21.5
HC82-4176	47.3	33	+4.4	1.3	24	1.5	15.7	38.5	21.4
HC82-4692	49.6	21	+5.8	1.3	22	1.5	16.0	40.9	20.6
HC83-2458	50.3	14	+8.0	1.4	24	1.6	17.9	40.6	20.8
HC83-2707	49.7	19	+5.6	1.3	24	1.5	13.3	40.7	21.2
HC83-2808	45.6	36	+4.5	1.4	22	1.7	16.7	39.8	21.5
HC83-2902	46.8	34	+4.4	1.5	24	1.4	15.6	39.1	22.0
HC83-3958	49.7	19	+4.5	1.4	29	1.3	14.5	39.6	21.3

* 123 Days after planting.

PRELIMINARY TEST IIB, 1986

YIELD (bu/a)

Strain	Mean 10 Tests	Ames IA	Marshalltown IA	Urbana IL	Lafayette IN
BSR 101 (I)	48.3	53.0	51.4	58.5	45.3
Elgin (II)	50.2	48.4	49.2	64.2	45.4
Zane (III)	53.2	47.0	52.4	71.4	56.6
A85-193026	51.3	52.2	50.1	66.0	48.1
A85-291001	53.8	55.3	51.5	75.4	50.3
A85-291024	49.0	44.4	46.2	64.6	42.5
A85-292023	52.5	52.1	52.4	71.2	53.7
A85-292033	49.2	50.7	52.9	61.8	39.2
A85-293005	50.0	49.9	42.3	65.8	58.7
A85-293030	52.8	51.0	54.1	76.5	59.9
A85-293032	54.2	54.1	50.1	72.4	60.7
A85-293033	52.6	52.5	49.9	74.9	56.5
A85-294054	46.7	46.3	49.9	63.0	43.2
A85-295053	47.7	45.4	43.9	62.3	46.8
A85-296052	47.8	44.4	46.6	63.6	46.7
A85-298051	54.9	53.5	52.8	73.4	56.9
A85-298054	48.8	50.9	47.9	62.1	49.4
A85-298055	47.7	47.9	46.4	70.1	48.9
C1689	48.2	45.5	47.7	63.3	51.3
C1690	48.0	48.3	44.3	64.6	36.2
C1691	50.6	47.6	45.4	74.8	55.7
HM8530	50.0	41.7	45.0	68.7	52.6
HM8536	48.3	44.1	48.6	56.2	37.9
HM8539	51.0	47.9	45.5	58.8	44.2
Hoyt	51.3	47.4	49.3	55.7	54.8
C1696	45.0	41.6	34.2	63.9	46.6
HC82-294	50.2	46.8	38.7	67.0	52.7
HC82-3667	50.4	43.9	42.2	64.7	54.1
HC82-4024	48.5	43.0	39.8	70.0	51.7
HC82-4163	51.1	45.5	42.8	65.6	57.8
HC82-4176	47.3	46.3	45.1	58.8	47.7
HC82-4692	49.6	45.2	46.2	56.5	48.7
HC83-2458	50.3	48.6	40.2	64.6	50.7
HC83-2707	49.7	39.1	46.9	65.7	56.3
HC83-2808	45.6	41.6	46.8	58.0	43.4
HC83-2902	46.8	40.5	39.2	57.2	44.6
HC83-3958	49.7	44.3	42.2	64.6	48.4
C.V. (%)		6.3	5.8	5.7	8.6
L.S.D. (5%)		6.0	5.4	7.3	8.3
Row Sp. (In.)		27	27	30	24
Rows/Plot		4	4	4	4
Reps		2	2	2	2

YIELD (bu/a)

Britton MI	Mead NE	Adelphia NJ	Hoytville OH	Centerville SD	Arlington WI
48.1	50.4	43.1	36.7	52.6	43.6
54.5	49.3	45.6	49.7	52.5	43.3
53.3	56.5	48.0	52.5	51.9	41.3
50.2	53.1	48.1	43.0	56.7	45.4
57.7	47.0	43.8	52.9	60.0	43.6
51.5	45.1	50.5	53.1	50.3	41.4
50.0	55.0	45.9	43.5	56.5	44.7
48.3	48.4	40.5	51.5	55.1	43.8
53.9	46.1	39.9	51.5	54.1	37.7
55.7	47.6	47.6	46.7	54.8	33.9
59.9	56.7	43.2	45.2	58.5	40.7
52.6	45.3	49.3	47.4	57.3	39.8
45.1	41.2	44.5	41.2	50.8	41.7
48.7	42.0	46.0	50.0	51.8	39.8
46.6	40.7	49.9	51.2	57.0	31.7
57.6	50.8	50.0	58.6	56.2	39.5
46.9	45.6	51.1	48.7	56.3	29.0
54.1	45.7	45.2	29.3	51.4	37.8
53.0	46.9	47.6	39.6	49.5	37.1
51.6	49.0	48.8	39.0	56.3	41.4
52.1	43.0	44.9	41.0	51.0	-
51.3	40.8	46.1	60.4	50.3	42.9
49.8	46.6	47.0	51.4	54.0	47.6
46.5	45.9	47.7	54.9	50.8	41.2
46.7	60.0	50.2	52.2	54.6	42.5
52.6	49.7	40.2	34.1	48.7	38.7
45.2	56.6	47.8	45.0	50.2	52.1
55.2	54.5	45.9	51.4	47.0	45.2
46.1	53.8	43.0	49.2	50.7	38.1
52.3	55.2	48.3	50.9	48.9	43.5
50.6	53.0	44.6	36.3	48.3	42.3
50.8	54.2	46.3	51.5	50.8	45.9
49.2	55.7	45.5	52.5	51.4	44.2
51.0	53.8	38.0	49.9	52.1	44.5
49.5	46.3	42.6	19.6	52.2	55.7
46.6	60.1	39.0	41.1	50.9	48.5
50.1	51.1	47.0	52.2	58.7	38.7
8.3	7.7	9.1	16.9	4.9	-
NS	7.7	6.4	14.6	5.1	-
20	30	30	30	30	30
4	2	4	4	4	4
2	2	2	2	2	2

PRELIMINARY TEST IIB, 1986

YIELD RANK

Strain	Yield Rank	Ames IA	Marshalltown IA	Urbana IL	Lafayette IN
BSR 101 (I)	26	4	7	31	28
Elgin (II)	15	13	13	21	29
Zane (III)	4	19	4	7	6
A85-193026	8	6	8	13	23
A85-291001	3	1	6	2	18
A85-291024	23	27	21	18	34
A85-292023	7	7	4	8	12
A85-292033	22	10	2	28	35
A85-293005	17	11	30	14	3
A85-293030	5	8	1	1	2
A85-293032	2	2	8	6	1
A85-293033	6	5	10	3	7
A85-294054	35	21	10	25	33
A85-295053	31	25	28	26	25
A85-296052	30	27	19	23	26
A85-298051	1	3	3	5	5
A85-298054	24	9	15	27	19
A85-298055	31	15	20	9	20
C1689	28	23	16	24	16
C1690	29	14	27	18	37
C1691	12	17	24	4	9
HM8530	17	33	26	11	14
HM8536	26	30	14	35	36
HM8539	11	15	23	29	31
Hoyt	8	18	12	36	10
C1696	37	34	37	22	27
HC82-294	15	20	36	12	13
HC82-3667	13	31	31	17	11
HC82-4024	25	32	34	10	15
HC82-4163	10	23	29	16	4
HC82-4176	33	21	25	29	24
HC82-4692	21	26	21	34	21
HC83-2458	14	12	33	18	7
HC83-2707	19	37	17	15	8
HC83-2808	36	34	18	32	32
HC83-2902	34	36	35	33	30
HC83-3958	19	29	31	18	22

YIELD RANK

Britton MI	Mead NE	Adelphia NJ	Hoytville OH	Centerville SD	Arlington WI
29	17	30	33	16	12
6	19	22	19	17	15
9	5	10	6	20	22
21	13	9	27	6	6
2	23	28	5	1	12
16	32	2	4	30	20
23	8	20	26	7	8
28	21	33	10	11	11
8	27	35	10	14	32
4	22	13	23	12	34
1	3	29	24	3	24
11	31	6	22	4	25
37	35	27	28	26	19
27	34	19	17	21	25
32	37	5	15	5	35
3	16	4	2	10	27
30	30	1	21	8	36
7	29	24	36	22	31
10	24	13	31	33	33
15	20	7	32	8	20
14	33	25	30	24	-
17	36	18	1	30	16
24	25	15	13	15	4
34	28	12	3	28	23
31	2	3	8	13	17
12	18	34	35	35	28
36	4	11	25	32	2
5	9	20	13	37	7
35	11	31	20	29	30
13	7	8	16	34	14
20	14	26	34	36	18
19	10	17	10	26	5
26	6	23	6	22	10
18	11	37	18	19	9
25	26	32	37	18	1
33	1	36	29	25	3
22	15	15	8	2	28

PRELIMINARY TEST IIB, 1986

MATURITY (Date)

Strain	Mean 8 Tests	Ames IA	Marshalltown IA	Urbana IL	Lafayette IN
BSR 101 (I)	-3.9	-3		-7	-8
Elgin (II)	9-16.5	9-20		8-30	9-10
Zane (III)	+4.3	+2		+6	+7
A85-193026	+1.1	+2		+1	+1
A85-291001	+0.8	+1		+2	-1
A85-291024	+0.1	+1		-2	-2
A85-292023	+0.9	+2		+1	+2
A85-292033	-1.9	0		-2	-6
A85-293005	+8.1	+9		+14	+11
A85-293030	+8.0	+7		+12	+11
A85-293032	+3.8	+2		+6	+6
A85-293033	+3.4	+2		+6	+6
A85-294054	+3.9	+4		+7	+8
A85-295053	+2.4	+2		+5	+4
A85-296052	+7.8	+10		+12	+11
A85-298051	+6.3	+7		+11	+9
A85-298054	+10.1	+10		+15	+16
A85-298055	+4.8	+6		+8	+5
C1689	+3.1	+3		+6	+5
C1690	+2.5	+2		+5	+4
C1691	+3.9	+4		+4	+5
HM8530	+5.0	+3		+9	+6
HM8536	-3.9	-6		-4	-6
HM8539	+3.5	+2		+2	+2
Hoyt	+2.8	+2		+2	+6
C1696	+5.9	+8		+5	+7
HC82-294	+5.9	+8		+7	+10
HC82-3667	+4.8	+6		+5	+9
HC82-4024	+5.9	+6		+9	+11
HC82-4163	+6.4	+8		+7	+8
HC82-4176	+4.4	+8		+2	+7
HC82-4692	+5.8	+6		+6	+11
HC83-2458	+8.0	+9		+8	+13
HC83-2707	+5.6	+6		+8	+8
HC83-2808	+4.5	+2		+7	+10
HC83-2902	+4.4	+6		+3	+6
HC83-3958	+4.5	+6		+3	+6
Date Planted	5-17	5-23		5-5	5-23
Days to Mature	122	120		118	110

MATURITY (Date)

Britton MI	Mead NE	Adelphia NJ	Hoytville OH	Centerville SD	Arlington WI*
+2	-6	-2	-8	+1	0
9-16	9-22	9-23	9-16	9-26	10-22
+4	+4	+5	+3	+3	+3
-1	+2	+3	-1	+2	+3
+4	-1	+1	-1	+1	-1
-1	+1	+3	-1	+2	0
+1	-1	+5	-3	0	+2
-3	-2	+1	-3	0	+2
+7	+5	+7	+3	+9	+6
+6	+6	+5	+3	+6	+5
+6	+2	+7	+2	+1	0
+3	+5	+3	0	+2	+3
+2	+1	+4	+1	+4	+2
+2	-1	+5	0	+2	+3
+3	+5	+9	+5	+7	+5
+4	+4	+7	+3	+5	+2
+6	+7	+13	+7	+7	+6
+4	+3	+3	+3	+6	+3
+3	+3	+3	-1	+3	0
+3	+4	+2	-1	+1	0
+3	+3	+6	+1	+5	-
+6	+5	+3	+2	+6	+3
-3	-4	-1	-4	-3	0
+4	+5	+8	+2	+3	+6
+5	+2	+1	0	+4	+2
+4	+6	+5	+5	+7	+3
+4	+4	+5	+3	+6	0
+1	+5	+4	+5	+3	+3
+1	+6	+5	+5	+4	0
+5	+5	+5	+6	+7	+3
+4	+4	+3	+2	+5	+2
+2	+6	+4	+5	+6	-1
+6	+6	+7	+7	+8	+3
+4	+5	+5	+4	+5	0
+1	+4	+4	+3	+5	+3
+1	+5	+3	+4	+7	0
+2	+4	+5	+2	+8	0
5-10	5-21	5-29	5-6	5-22	5-21
129	124	117	133	127	154

*Not included in mean.

PRELIMINARY TEST IIB, 1986

LODGING (Score)

Strain	Mean 10 Tests	Ames IA	Marshalltown IA	Urbana IL	Lafayette IN
BSR 101 (I)	1.8	1.4	1.5	1.0	1.3
Elgin (II)	1.7	1.7	1.9	2.0	1.3
Zane (III)	1.7	1.4	1.8	1.5	2.3
A85-193026	2.2	2.4	1.9	1.5	2.3
A85-291001	2.1	1.7	1.8	2.0	1.8
A85-291024	2.7	2.2	2.3	3.0	2.8
A85-292023	2.4	2.5	2.2	3.5	2.5
A85-292033	2.2	1.7	1.9	2.0	2.0
A85-293005	1.9	1.8	1.8	2.0	2.3
A85-293030	1.9	1.7	1.7	3.0	2.0
A85-293032	1.4	1.4	1.7	1.5	1.3
A85-293033	2.0	2.3	1.8	2.0	1.8
A85-294054	3.1	2.5	2.9	4.0	3.5
A85-295053	1.8	1.8	1.7	2.0	1.3
A85-296052	2.0	1.8	2.1	2.5	2.0
A85-298051	2.0	1.9	1.8	2.5	2.0
A85-298054	2.3	2.0	2.1	3.0	2.0
A85-298055	2.0	1.9	2.0	2.5	1.8
C1689	2.4	2.0	2.2	4.0	2.0
C1690	1.8	1.8	1.7	2.5	1.3
C1691	2.0	2.4	1.9	2.5	2.8
HM8530	1.8	1.8	2.0	2.0	1.3
HM8536	2.4	1.7	1.7	2.5	2.8
HM8539	2.6	2.3	2.1	2.5	3.0
Hoyt	1.5	1.7	1.5	1.0	1.0
C1696	1.8	1.8	1.7	1.0	1.0
HC82-294	1.4	1.4	1.6	1.0	1.0
HC82-3667	1.4	1.6	1.5	1.0	1.0
HC82-4024	1.4	1.7	1.6	1.0	1.0
HC82-4163	1.3	1.4	1.4	1.0	1.0
HC82-4176	1.3	1.4	1.5	1.0	1.0
HC82-4692	1.3	1.5	1.5	1.0	1.0
HC83-2458	1.4	1.5	1.4	1.0	1.0
HC83-2707	1.3	1.5	1.5	1.0	1.0
HC83-2808	1.4	1.5	1.5	1.0	1.0
HC83-2903	1.5	1.8	1.6	1.0	1.0
HC83-3958	1.4	1.4	1.5	1.0	1.0

LODGING (Score)

Britton MI	Mead NE	Adelphia NJ	Hoytville OH	Centerville SD	Arlington WI
4.0	1.0	1.0	1.4	2.0	3.3
1.5	1.3	1.0	1.5	1.0	3.3
2.0	1.3	1.0	1.5	1.5	3.0
2.0	2.3	2.0	1.4	2.5	3.3
2.0	1.3	2.5	1.8	3.0	3.3
3.0	2.0	2.5	2.2	4.0	3.3
2.5	1.8	2.0	1.8	2.0	3.0
1.5	2.0	2.5	1.9	2.5	3.8
1.5	1.5	1.5	1.4	2.0	3.0
1.0	1.0	1.0	1.3	3.0	3.3
1.0	1.0	1.0	1.6	1.0	2.8
2.0	1.5	1.5	1.4	2.5	2.8
4.0	3.0	2.0	2.1	3.5	3.0
2.5	1.3	1.0	1.4	1.0	3.5
2.5	1.5	1.0	1.5	2.0	3.0
2.0	1.3	1.0	1.6	2.5	3.0
2.5	2.0	1.5	1.4	3.0	3.5
1.9	1.8	1.0	1.2	2.5	3.3
2.0	2.0	1.5	1.4	3.5	3.0
2.0	2.0	1.0	1.3	1.5	3.0
2.0	2.0	1.5	1.8	2.5	-
1.5	1.3	1.0	1.6	2.0	3.8
3.5	2.0	2.0	2.5	2.0	3.5
3.0	2.0	2.0	1.4	3.5	4.0
1.0	1.0	1.5	1.2	2.0	2.8
2.5	1.5	1.5	1.3	2.0	3.5
1.0	1.0	1.0	1.3	2.0	2.5
1.0	1.0	1.0	1.3	2.0	2.8
1.0	1.0	1.5	1.2	1.5	2.5
1.0	1.0	1.0	1.2	1.5	2.3
1.0	1.0	1.0	1.3	1.0	2.8
1.0	1.0	1.0	1.2	1.5	2.3
1.0	1.0	1.0	1.3	2.0	3.0
1.0	1.0	1.0	1.4	1.0	2.8
1.0	1.0	1.0	1.2	2.0	3.0
1.0	1.0	1.0	1.6	2.5	2.5
1.0	1.0	1.0	1.2	2.5	2.8

PRELIMINARY TEST IIB, 1986

PLANT HEIGHT (Inches)

Strain	Mean 10 Tests	Ames IA	Marshalltown IA	Urbana IL	Lafayette IN
BSR 101 (I)	35	36	37	39	34
Elgin (II)	33	33	34	40	32
Zane (III)	38	40	44	42	38
A85-193026	38	40	42	43	39
A85-291001	37	39	40	40	37
A85-291024	37	34	39	40	39
A85-292023	39	40	42	44	41
A85-292033	37	36	42	42	36
A85-293005	39	40	39	44	40
A85-293030	36	37	38	41	37
A85-293032	36	38	39	42	36
A85-293033	38	43	38	44	41
A85-294054	35	39	42	42	36
A85-295053	37	38	39	47	38
A85-296052	36	42	44	45	39
A85-298051	37	41	40	42	35
A85-298054	40	42	45	45	41
A85-298055	39	42	44	45	40
C1689	46	46	51	48	50
C1690	40	44	42	48	38
C1691	41	42	40	46	43
HM8530	39	40	44	45	36
HM8536	36	34	40	39	35
HM8539	41	40	47	45	42
Hoyt	24	21	26	23	24
C1696	33	34	36	32	33
HC82-294	25	24	21	27	23
HC82-3667	26	26	26	24	24
HC82-4024	23	24	24	24	19
HC82-4163	23	20	22	23	21
HC82-4176	24	24	25	22	21
HC82-4692	22	19	23	20	19
HC83-2458	24	22	24	23	22
HC83-2707	24	22	25	22	21
HC83-2808	22	20	26	20	19
HC83-2902	24	24	26	23	22
HC83-3958	29	28	29	30	27

PRELIMINARY TEST IIB, 1986

PLANT HEIGHT (Inches)

Britton MI	Mead NE	Adelphia NJ	Hoytville OH	Centerville SD	Arlington WI
37	36	32	27	36	38
31	36	26	32	34	33
36	39	32	32	36	37
35	42	34	29	37	35
37	37	32	31	38	34
37	38	36	31	41	37
38	41	36	27	37	42
34	40	33	31	37	36
38	41	34	35	38	41
36	40	32	28	40	35
37	38	30	26	36	35
37	41	34	28	36	38
34	37	32	26	31	35
35	37	36	30	31	35
41	37	35	32	39	35
36	40	36	30	36	35
41	40	42	28	38	36
40	41	36	22	40	40
45	53	42	33	44	43
38	44	36	30	40	36
40	42	38	34	41	-
38	40	32	31	41	38
38	34	34	31	36	34
40	42	36	34	40	39
25	29	24	21	21	28
37	36	28	26	29	35
25	28	22	24	25	32
28	30	24	21	30	28
22	27	18	20	27	26
24	27	21	21	26	28
26	27	21	22	26	28
22	24	18	19	25	26
26	25	20	22	28	31
25	27	20	24	23	30
22	26	19	15	24	29
25	30	20	19	21	28
27	32	25	27	29	33

PRELIMINARY TEST IIB, 1986

SEED QUALITY (Score)

Strain	Mean 8 Tests	Ames IA	Marshalltown IA	Urbana IL	Lafayette IN
BSR 101 (I)	2.1	2.0		1.7	2.5
Elgin (II)	1.7	2.0		1.7	1.5
Zane (III)	1.7	2.0		1.7	1.5
A85-193026	2.0	3.0		1.7	1.5
A85-291001	1.7	2.0		1.7	1.0
A85-291024	1.5	2.0		1.8	1.5
A85-292023	1.5	1.0		1.3	1.0
A85-292033	1.8	2.0		1.5	2.0
A85-293005	1.9	2.0		1.9	1.5
A85-293030	1.6	1.0		1.7	1.0
A85-293032	1.7	2.0		1.5	1.0
A85-293033	1.9	2.0		1.3	1.0
A85-294054	1.9	3.0		1.5	1.0
A85-295053	2.0	3.0		1.8	2.0
A85-296052	2.4	4.0		1.7	1.5
A85-298051	1.7	2.0		1.7	1.5
A85-298054	2.2	3.0		1.8	1.0
A85-298055	2.0	2.0		1.7	1.5
C1689	1.8	2.0		1.7	1.0
C1690	2.2	3.0		1.9	1.5
C1691	1.8	2.0		1.8	1.5
HM8530	1.8	1.0		1.7	1.0
HM8536	1.7	1.0		1.7	1.5
HM8539	1.7	1.0		1.5	1.0
Hoyt	1.4	1.0		1.5	1.5
C1696	1.8	2.0		1.6	1.0
HC82-294	1.5	2.0		1.5	1.0
HC82-3667	1.3	1.0		1.3	1.0
HC82-4024	1.4	2.0		1.1	1.0
HC82-4163	1.4	2.0		1.3	1.0
HC82-4176	1.5	2.0		1.1	1.0
HC82-4692	1.5	2.0		1.1	1.0
HC83-2458	1.6	2.0		1.3	1.5
HC83-2707	1.5	2.0		1.1	1.0
HC83-2808	1.7	2.0		1.7	1.0
HC83-2902	1.4	2.0		1.1	1.0
HC83-3958	1.3	1.0		1.3	1.0

SEED QUALITY (Score)

Britton MI	Mead NE	Adelphia NJ	Hoytville OH	Centerville SD	Arlington WI
	2.3	1.0	2.1	3.0	2.0
	2.0	1.0	1.6	2.0	2.0
	2.3	1.0	1.4	2.0	2.0
	2.0	1.0	1.6	3.0	2.0
	2.0	1.0	1.8	2.0	2.0
	2.0	1.0	1.5	2.0	2.0
	1.8	1.0	1.5	2.0	2.0
	2.3	1.0	1.7	2.0	2.0
	2.0	1.0	1.6	3.0	2.0
	2.3	1.0	1.4	2.0	2.0
	1.8	1.0	1.6	3.0	2.0
	2.5	1.0	1.3	3.0	3.0
	2.0	1.0	1.3	3.0	2.0
	2.0	1.0	1.4	3.0	2.0
	2.0	1.0	1.7	3.0	4.0
	1.8	1.0	1.3	3.0	1.0
	2.0	1.5	1.5	3.0	4.0
	2.0	1.0	1.4	4.0	2.0
	2.0	1.0	1.7	3.0	2.0
	2.5	2.0	1.8	3.0	2.0
	2.0	1.0	1.6	3.0	-
	2.5	2.0	1.4	3.0	2.0
	2.0	1.0	1.6	3.0	2.0
	1.5	1.0	1.3	2.0	4.0
	1.0	1.0	1.3	3.0	1.0
	1.5	1.5	1.8	3.0	2.0
	1.0	1.0	1.7	3.0	1.0
	1.5	1.0	1.3	2.0	1.0
	1.3	1.0	1.5	2.0	1.0
	1.3	1.0	1.4	2.0	1.0
	1.0	1.0	1.8	2.0	2.0
	1.3	1.0	1.2	3.0	1.0
	1.8	1.0	1.3	3.0	1.0
	1.3	1.0	1.2	3.0	1 0
	1.3	1.5	1.8	3.0	1.0
	1.0	1.0	1.4	3.0	1.0
	1.5	1.0	1.3	2.0	1.0

PRELIMINARY TEST IIB, 1986

SEED SIZE (g/100)

Strain	Mean 8 Tests	Ames IA	Marshalltown IA	Urbana IL	Lafayette IN
BSR 101 (I)	15.7	15.6		16.7	15.6
Elgin (II)	15.4	15.1		15.6	14.6
Zane (III)	18.6	17.1		18.9	19.3
A85-193026	13.6	13.2		13.5	12.0
A85-291001	14.4	14.6		15.8	13.9
A85-291024	14.6	13.8		16.2	13.5
A85-292023	13.2	12.9		14.7	13.3
A85-292033	16.3	17.0		16.9	15.4
A85-293005	15.3	14.9		16.1	15.4
A85-293030	15.5	15.4		16.8	16.0
A85-293032	17.0	17.0		18.3	16.8
A85-293033	15.2	14.7		17.9	14.6
A85-294054	14.4	14.6		14.3	13.9
A85-295053	14.2	14.7		14.9	12.8
A85-296052	14.3	14.1		15.5	14.0
A85-298051	14.6	14.4		15.4	14.1
A85-298054	16.2	17.1		18.1	16.3
A85-298055	14.7	15.0		16.1	14.2
C1689	14.1	14.5		14.6	14.3
C1690	15.3	16.1		15.5	14.9
C1691	16.1	16.2		16.6	15.3
HM8530	18.8	17.6		19.6	20.0
HM8536	16.6	15.6		17.0	14.1
HM8539	17.6	18.1		18.3	16.7
Hoyt	13.9	12.7		15.6	14.2
C1696	14.2	13.8		17.0	13.5
HC82-294	15.1	14.4		16.3	15.3
HC82-3667	15.5	14.5		16.4	16.0
HC82-4024	17.7	16.8		19.6	19.1
HC82-4163	15.3	15.1		16.7	15.6
HC82-4176	15.7	15.9		16.3	15.3
HC82-4692	16.0	15.5		16.7	17.0
HC83-2458	17.9	18.1		18.0	18.3
HC83-2707	13.3	12.2		14.1	13.6
HC83-2808	16.7	15.3		18.7	16.7
HC83-2902	15.6	15.6		15.7	14.5
HC83-3958	14.5	14.0		15.4	13.2

SEED SIZE (g/100)

Britton MI	Mead NE	Adelphia NJ	Hoytville OH	Centerville SD	Arlington WI
14.9	18.0		13.7	16.8	14.3
15.2	16.2		14.6	15.7	16.1
19.2	22.1		17.4	18.9	16.2
13.9	15.6		12.8	14.8	12.6
13.7	14.9		12.9	15.7	13.8
14.0	16.8		13.5	16.0	12.7
12.8	14.6		11.8	13.7	12.0
16.1	18.1		15.4	16.8	14.5
14.9	17.9		14.1	15.4	14.0
15.9	16.5		14.0	16.4	13.3
17.3	18.3		15.3	17.9	15.0
14.4	17.2		13.5	15.4	13.6
15.0	15.4		13.1	15.3	13.6
14.4	14.8		13.4	14.8	13.5
14.2	15.8		12.2	15.3	13.4
15.2	16.4		12.8	15.1	13.1
14.9	16.8		14.9	16.9	14.2
14.2	16.1		12.7	15.9	13.7
14.2	15.7		12.9	14.2	12.0
15.8	17.1		13.3	15.9	13.9
15.9	17.4		14.8	16.6	-
19.8	21.0		17.7	18.6	16.4
17.5	17.3		15.0	17.2	18.9
18.4	18.6		15.7	18.5	16.8
13.6	14.7		13.2	14.2	12.7
14.4	15.5		13.0	13.1	13.0
15.0	15.9		13.8	15.2	14.7
14.8	17.2		15.7	15.5	14.0
17.4	19.2		15.5	16.7	17.0
14.8	16.4		14.2	15.4	14.4
15.7	16.6		14.1	16.3	15.6
14.9	17.3		16.4	15.6	14.4
17.0	19.2		17.4	18.6	16.8
12.2	15.1		12.8	13.2	13.0
15.1	17.4		16.1	16.5	17.6
15.1	18.6		13.8	15.5	15.6
13.3	15.5		12.2	19.3	13.2

PRELIMINARY TEST IIB, 1986

PROTEIN (%)

Strain	Mean 4 Tests	Urbana, IL	Lafayette, IN	Mead, IN	Hoytville, OH
BSR 101 (I)	39.0	39.2	37.8	39.6	39.2
Elgin (II)	37.7	36.8	38.3	38.7	36.9
Zane (III)	38.9	38.4	37.1	41.5	38.7
A85-193026	36.9	37.0	37.0	37.4	36.1
A85-291001	38.2	37.4	40.5	37.7	37.3
A85-291024	40.2	39.9	39.0	41.6	[illegible]
A85-292023	39.4	40.3	39.2	39.8	38.3
A85-292033	39.8	38.3	40.1	41.5	39.4
A85-293005	38.9	38.9	39.1	41.2	36.5
A85-293030	39.7	39.4	39.5	41.6	38.2
A85-293032	39.5	40.0	39.3	40.9	37.9
A85-293033	37.9	37.8	37.9	38.9	37.1
A85-294054	38.8	38.5	38.8	39.1	38.8
A85-295053	39.2	39.0	39.5	40.5	37.9
A85-296052	38.9	38.8	39.8	38.9	38.2
A85-298051	39.6	39.3	39.8	39.8	39.4
A85-298054	39.9	40.2	39.7	41.6	38.2
A85-298055	36.1	36.6	36.4	35.6	35.8
C1689	40.5	40.8	41.1	40.4	39.6
C1690	39.9	39.0	40.1	42.3	38.2
C1691	39.1	38.9	39.7	39.3	38.3
HM8530	39.9	38.2	39.5	42.3	39.4
HM8536	41.2	41.3	41.7	40.2	41.4
HM8539	38.4	38.8	37.8	40.2	36.8
Hoyt	40.2	41.5	39.5	40.2	39.4
C1696	38.3	39.1	38.0	38.6	37.6
HC82-294	40.1	41.9	39.9	39.7	38.9
HC82-3667	39.5	39.3	39.0	38.6	38.6
HC82-4024	40.5	41.7	40.3	40.2	39.6
HC82-4163	37.7	38.3	37.8	36.5	38.3
HC82-4176	38.5	39.1	38.7	38.4	37.6
HC82-4692	40.9	41.4	40.8	40.4	40.9
HC83-2458	40.6	40.2	40.9	40.5	40.7
HC83-2707	40.7	40.5	40.6	40.9	40.6
HC83-2808	39.8	40.2	39.7	39.4	40.0
HC83-2902	39.1	40.0	39.5	38.7	38.2
HC83-3958	39.6	40.6	40.1	38.8	38.8

PRELIMINARY TEST IIB, 1986

OIL (%)

Strain	Mean 4 Tests	Urbana, IL	Lafayette, IN	Mead, IN	Hoytville, OH
BSR 101 (I)	20.9	21.3	21.3	20.4	20.4
Elgin (II)	21.7	23.0	22.5	20.5	20.9
Zane (III)	21.7	23.4	22.3	20.3	20.9
A85-193026	22.6	23.5	21.6	22.7	22.4
A85-291001	21.3	22.9	20.3	21.2	20.9
A85-291024	21.0	22.0	21.1	20.3	20.4
A85-292023	20.9	22.2	20.9	19.9	20.7
A85-292033	21.3	22.1	21.6	20.2	21.4
A85-293005	20.7	21.3	21.1	19.8	20.6
A85-293030	21.0	21.8	21.6	20.1	20.5
A85-293032	21.1	22.0	21.2	20.4	20.8
A85-293033	22.2	23.7	22.0	21.4	21.6
A85-294054	21.4	22.2	21.5	21.4	20.5
A85-295053	21.2	22.5	20.7	20.7	21.0
A85-296052	21.3	22.4	21.2	20.9	20.6
A85-298051	20.7	21.6	20.6	20.5	20.1
A85-298054	20.3	21.4	20.3	19.3	20.0
A85-298055	22.1	22.3	22.0	22.5	21.6
C1689	20.9	21.9	20.6	20.2	20.9
C1690	21.6	23.2	21.0	20.6	21.5
C1691	21.6	22.8	21.2	21.1	21.3
HM8530	19.5	20.8	20.3	18.1	18.9
HM8536	21.0	22.0	20.5	21.1	20.5
HM8539	21.6	22.8	22.4	20.7	20.6
Hoyt	21.1	22.7	21.0	20.3	20.3
[illegible]	21.5	22.8	21.7	20.6	20.7
HC82-294	21.2	21.8	20.9	21.2	20.8
HC82-3667	21.5	22.8	20.9	22.1	20.3
HC82-4024	20.6	22.4	19.8	20.5	19.8
HC82-4163	21.5	22.8	20.9	21.8	20.6
HC82-4176	21.4	23.6	20.6	21.0	20.2
HC82-4692	20.6	22.3	19.8	20.6	19.7
HC83-2458	20.8	22.6	20.3	20.8	19.4
HC83-2707	21.2	22.9	20.8	20.8	20.4
HC83-2808	21.5	22.7	21.2	21.3	20.6
HC83-2902	22.0	23.1	21.3	22.3	21.4
HC83-3958	21.3	22.9	20.9	20.7	20.5

Uniform Test III, 1986

Strain	Parentage	Previous Testing	Generation Composited
Century 84 (II)	Century[5] X Williams 82	1	BC4 F4
Elf	Williams X Ransom	-	F5
HC Elf BC	Elf[6] X Williams 82	-	BC5 F3
Harper (III)	Unknown	5	F4
A Harper BC	Harper[6] X Williams 82	1	BC5 F2
Hobbit	Williams X Ransom	8	F5
HC Hobbit BC	Hobbit[6] X Williams 82	-	BC5 F3
Pella 86	Pella[5] X Williams 82	1	BC4 F3
Sprite	Williams X Ransom	-	F5
HC Sprite BC	Sprite[7] X Williams 82	-	BC6 F3
Zane	Cumberland X Pella	4	F5
Chamberlain	A76-304020 X Land O'Lakes Max	2	F4
Morgan (IV)	Union X Miles	-	F5
A83-372027	Merschman Washington V X Asgrow 3127	1	F4
A84-282019	Harper X Asgrow A3127	PTIIA	F4
HC80-585	HC74-3400 X Sprite	1	F5
HC80-586	HC74-3400 X Sprite	PTIIIB	F5
HC80-587	HC74-3400 X Sprite	PTIIIB	F5
HC81-2792	Gnome X Sprite	PTIIB	F5
HC82-1386	Williams X Ransom	PTIIB	F5
HM8469	A3127[4] X Williams 82	PTIVA	BC1 F4
HM8470	A3127[4] X Williams 82	PTIIIA	BC3 F2
HM8471	A3127[4] X Williams 82	PTIIIA	BC3 F2
U80-64032	~~L69U-37-75-5 (Calland X Corsoy)~~ X Nebsoy	1	F4
U80-68130	Williams X L69U-40-19-1	PTIIIA	F5

UNIFORM TEST III, 1986

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code		Chlorosis Score		Emergence Score	Shattering Score	
			Ames	Lamberton	Ames	Eldorado	Manhattan
Century 84 (II)	PTBSYB1	I	2.5	3	4	4.7	1
Elf	PTTSYB1	D	3.3	5	1	1	1
HC ELF BC	PTTSYB1	D	2.7	4	2	1	1
Harper (III)	PTBSYB1	I	3.2	4	5	1	1
A Harper BC	PTBSYB1	I	4.0	4	5	1	1
Hobbit	WTTSYB1	D	3.3	2	1	1	1
HC Hobbit BC	WTTSYB1	D	2.7	5	2	1	1
Pella 86	PTTSYB1	I	3.2	5	1	1	1
Sprite	WTTSYB1	D	3.3	5	2	1	1
HC Sprite BC	WTTSYB1	D	3.8	5	1	1	1
Zane	PGBSYIb	I	3.5	4	5	1	1
LN80-8478	PTBSYB1	I	2.8	4	2	1	2
MD79-5043 (IV)	WTTDYB1	I	2.5	3	1	1	1
A83-372027	PTTDYB1	I	3.8	5	2	1	2
A84-282019	PTBDYB1	I	2.3	3	2	1.7	-
HC80-585	WTTSYB1	D	3.3	5	2	1.3	-
HC80-586	P+WTTSYB1	D	3.3	5	2	1	1
HC80-587	WTTSYB1	D	2.7	4	2	1	1
HC81-2792	PTTSYB1	D	3.3	3	2	1	1
HC82-1386	P+WTTSYB1	D	4.2	5	2	1	1
HM8469	PTTDYB1	I	2.7	3	2	1	1
HM8470	PTTDYB1	I	3.5	5	1	1	1
HM8471	PTTDYB1	I	3.2	4	1	1	1
U80-64032	P+WGBSYBf	I	3.2	5	1	2.7	1
U80-68130	WTBDYGr	I	2.3	4	5	1	1

UNIFORM TEST III, 1986

DISEASE DATA

	BSR			BTS	PR	PS	PSB	SMV
	Ames		St. Paul					
	Plant	Stem	Plant	Ames	Vickery	Lafayette		
	N	N	N	a	Tolerance	a	a	a
Strain	%	%	%	Score	Score	%	%	Score
Century 84 (II)	100	98.5	50	3	2.9	31	40	5E
Elf	100	100.0	40	3	3.9	18	36	5E
HC ELF BC	100	100.0	30	3	2.6	22	36	5E
Harper (III)	100	82.7	50	3	3.3	9	32	5E
A Harper BC	100	86.8	50	3	2.8	16	14	5E
Hobbit	100	90.7	60	3	3.4	4	34	4M
HC Hobbit BC	100	88.8	0	3	2.8	8	32	4E
Pella 86	100	88.0	60	4	2.6	19	30	5E
Sprite	100	99.1	50	4	3.5	13	28	3E
HC Sprite BC	100	98.2	0	3	2.7	7	34	4E
Zane	100	94.8	30	4	3.5	6	42	5E
LN80-8478	100	66.9	0	3	2.8	9	32	5E
MD79-5043 (IV)	100	86.8	50	3	3.0	11	30	5E
A83-372027	100	79.7	50	3	2.7	10	34	5E
A84-282019	100	90.7	50	4	3.0	7	44	5E
HC80-585	100	93.7	70	3	2.9	12	34	3E
HC80-586	100	95.1	0	3	2.8	24	48	3M
HC80-587	100	97.6	50	4	3.0	21	34	4E
HC81-2792	100	98.7	50	3	3.0	8	36	4E
HC82-1386	100	92.0	70	5	2.8	3	40	4E
HM8469	100	91.9	0	3	3.1	10	30	5E
HM8470	100	85.8	70	3	2.7	7	26	4E
HM8471	100	89.7	40	3	2.5	9	12	3M
U80-64032	100	89.3	60	3	3.1	14	30	4E
U80-68130	100	86.0	50	4	3.3	31	40	5E

UNIFORM TEST III, 1986

1985-1986 2-YEAR MEAN

Strain	Yield	Rank	Maturity	Lodging	Plant Height	Seed Quality	Seed Size	Composition	
								Protein	Oil
No. of Tests	40	40	39	42	42	39	38	10	10
	bu/a	No.	Date	Score	In.	Score	g/100	%	%
Century 84 (II)	46.4	10	-6.4	1.4	32	2.2	17.8	43.0	20.8
Harper (III)	49.8	5	9-21.6*	1.4	32	2.0	19.0	40.8	21.4
A Harper BC	50.6	2	+0.4	1.4	32	2.0	19.0	40.7	21.6
Hobbit	48.5	8	-0.4	1.2	21	1.8	16.4	38.7	23.0
Pella 86	49.6	6	-3.4	1.4	33	2.1	19.6	39.3	22.5
Zane	49.3	7	-3.7	1.6	34	2.0	19.2	39.2	23.0
Chamberlain	50.4	3	+3.1	2.0	38	2.1	18.4	41.2	20.8
A83-372027	51.2	1	+2.8	1.9	38	2.0	15.1	39.6	22.4
HC80-585	50.0	4	+1.8	1.2	23	1.8	19.1	39.4	23.4
U80-64032	48.4	9	-1.8	1.6	32	2.8	17.2	39.8	21.0

*128 Days After Planting

UNIFORM TEST III, 1986

Regional Summary

Strain No. of Tests	Yield 19 bu/a	Rank 19 No.	Maturity 19 Date	Lodging 21 Score	Plant Height 21 In	Seed Quality 19 Score	Seed Size 18 g/100	Composition Protein 5 %	Oil 5 %
Century 84 (II)	48.4	20	-8.5	1.5	33	2.4	17.0	41.9	21.2
Elf	47.7	24	+5.6	1.3	21	2.0	16.0	40.9	20.6
HC Elf BC	49.1	18	+7.6	1.3	21	2.2	16.6	41.2	20.3
Harper (III)	51.9	7	9-19.6*	1.4	33	2.2	18.1	39.9	21.2
A Harper BC	52.7	5	+0.4	1.5	34	2.0	18.3	40.0	21.5
Hobbit	49.5	17	-2.1	1.2	20	1.9	15.7	37.8	22.9
HC Hobbit BC	51.1	13	-0.3	1.3	22	1.9	15.6	38.2	22.2
Pella 86	51.9	7	-4.1	1.5	34	2.2	18.7	38.9	22.4
Sprite	48.3	21	-0.9	1.4	21	1.8	17.1	39.0	23.2
HC Sprite BC	49.9	15	-0.1	1.6	21	1.8	16.7	39.0	22.9
Zane	51.2	11	-4.2	1.7	34	2.1	18.4	38.4	22.7
Chamberlain	51.4	10	+2.1	2.2	39	2.2	17.6	39.6	21.2
Morgan (IV)	50.3	14	+10.5	2.4	40	2.0	17.0	41.7	20.2
A83-372027	52.8	4	+1.7	2.0	39	2.0	14.4	38.8	22.4
A84-282019	51.2	11	-4.8	1.6	33	2.1	16.9	39.4	22.0
HC80-585	49.9	15	+0.9	1.2	22	1.9	18.3	38.8	23.1
HC80-586	48.1	22	+3.3	1.2	21	1.9	18.3	39.1	22.3
HC80-587	48.6	19	+2.4	1.3	21	1.8	17.0	39.1	22.6
HC81-2792	47.6	25	-3.7	1.4	22	1.8	14.9	38.1	23.1
HC82-1386	48.1	22	-1.2	1.9	28	2.1	17.0	39.5	21.6
HM8469	53.8	3	+4.6	1.5	36	1.8	14.5	41.0	20.9
HM8470	53.9	2	+1.4	1.6	34	1.8	14.7	40.0	21.4
HM8471	54.8	1	-0.1	1.5	33	1.8	14.6	40.4	21.5
U80-64032	51.8	9	-3.3	1.8	34	2.9	16.3	39.0	21.3
U80-68130	52.5	6	+2.7	1.8	35	2.3	17.0	38.6	21.2

* 126 Days after planting.

UNIFORM TEST III, 1986

YIELD (bu/a)

Strain	Mean 19 Tests	Stuart IA	Eldorado IL	Urbana IL	Lafayette IN	Bluff-ton IN	Sullivan IN*	Lexing-ton KY	Man-hattan KS	Pow-hattan KS	Queens-town MD
Century 84 (II)	48.4	54.5	35.6	51.2	56.7	61.6	29.1	28.7	52.3	40.7	47.0
Elf	47.7	51.4	46.5	48.1	64.7	50.3	24.1	25.3	56.1	51.3	50.5
HC Elf BC	49.1	52.0	59.0	45.8	63.4	56.0	33.3	21.9	54.2	60.7	40.8
Harper (III)	51.9	51.2	45.8	48.5	60.5	62.9	37.6	24.9	61.0	58.7	56.7
A Harper BC	52.7	48.8	52.6	44.1	62.1	62.8	59.4	26.1	64.5	61.6	59.4
Hobbit	49.5	55.0	33.9	52.0	67.2	57.5	12.3	22.2	58.1	64.5	46.3
HC Hobbit BC	51.1	54.0	50.1	50.4	66.7	57.6	39.3	23.6	59.7	64.9	49.2
Pella 86	51.9	54.9	51.1	50.9	60.7	70.3	50.2	25.2	53.9	50.0	53.4
Sprite	48.3	55.1	39.0	49.5	60.2	58.0	27.0	23.4	60.7	54.9	45.4
HC Sprite BC	49.9	57.5	44.3	54.4	63.3	59.9	26.4	22.0	60.0	57.4	52.6
Zane	51.2	54.2	50.4	53.7	64.1	67.8	58.8	26.4	55.8	49.7	53.4
Chamberlain	51.4	54.3	51.2	45.6	64.8	60.7	60.3	22.9	55.5	55.2	52.6
Morgan (IV)	50.3	50.3	57.6	31.5	62.2	68.4	54.5	31.8	55.5	55.8	64.8
A83-372027	52.8	50.0	56.0	46.4	58.3	64.5	50.8	25.6	62.6	60.0	56.9
A84-282019	51.2	56.2	37.3	58.8	67.7	63.5	31.0	25.2	60.0	54.9	51.7
HC80-585	49.9	57.1	42.7	54.3	61.0	58.3	33.0	21.4	56.1	60.3	42.7
HC80-586	48.1	56.4	40.5	52.6	65.6	58.4	27.0	21.1	57.1	63.2	49.0
HC80-587	48.6	54.3	42.9	51.7	58.9	53.5	10.2	22.2	62.3	60.7	48.2
HC81-2792	47.6	52.9	37.4	45.9	63.0	56.6	19.6	22.4	55.8	59.0	48.2
HC82-1386	48.1	55.2	44.2	54.6	60.8	54.8	31.9	26.6	50.3	50.7	43.1
HM8469	53.8	49.6	60.5	42.1	60.2	66.0	48.4	31.4	62.0	61.6	60.3
HM8470	53.9	53.6	53.1	49.5	61.8	62.6	69.1	27.6	59.7	60.0	50.9
HM8471	54.8	53.9	55.0	51.3	63.1	60.7	55.4	27.4	64.9	60.3	53.0
U80-64032	51.8	57.1	45.6	53.9	65.6	59.0	41.5	30.0	57.1	52.9	50.0
U80-68130	52.5	56.8	52.3	43.6	65.5	69.5	33.6	23.2	56.5	58.1	62.2
C.V. (%)		5.2	10.2	6.3	6.1	9.1	25.6	15.2	7.8	6.8	11.7
L.S.D. (5%)		4.9	7.9	5.0	6.2	9.2	17.0	4.0	7.5	6.4	9.9
Row Sp. (In.)		27	30	30	24	15	15	30	30	30	30
Rows/Plot		4	4	4	4	5	5	4	4	4	4
Reps		4	3	3	3	3	3	3	3	3	3

UNIFORM TEST III, 1986

YIELD (bu/a)

Strain	Columbia MO	Mead NE	Adelphia NJ	Hoyt-ville OH	Ripley OH	S.Charles-ton OH	Wooster OH	Harrow ONT	Landis-ville PA	Elk Point SD	Lubbock TX
Century 84 (II)	42.8	52.6	44.6	59.4	39.1	58.6	41.9	54.4	50.8	46.6	
Elf	53.3	57.2	44.6	34.5	37.7	59.4	38.0	50.6	47.0	40.1	
HC Elf BC	52.5	53.8	45.5	51.6	37.5	59.4	43.5	53.8	45.8	35.9	
Harper (III)	53.2	60.1	47.2	45.0	44.0	65.3	41.1	58.0	52.5	49.4	
A Harper BC	53.0	58.8	45.2	57.6	44.0	63.0	38.3	55.0	56.4	48.1	
Hobbit	43.9	63.8	44.5	44.0	35.6	62.4	37.8	49.3	51.0	51.6	
HC Hobbit BC	42.8	60.8	40.2	51.5	39.0	58.8	43.4	51.6	52.1	53.9	
Pella 86	50.5	58.2	44.7	59.1	36.3	60.7	48.5	57.0	53.4	48.0	
Sprite	41.5	58.9	42.7	52.4	29.7	59.4	39.7	52.3	43.5	51.1	
HC Sprite BC	43.6	57.6	31.7	50.2	37.0	61.1	42.6	58.1	45.9	49.0	
Zane	57.2	50.6	39.1	42.0	43.8	64.4	42.6	55.3	59.7	42.7	
Chamberlain	50.5	57.4	46.7	45.6	41.8	60.5	45.9	59.5	56.8	48.4	
Morgan (IV)	55.3	52.4	40.3	43.9	43.6	59.7	43.5	55.1	52.9	31.2	
A83-372027	52.8	58.5	37.5	55.1	41.4	67.9	42.5	59.4	60.6	46.5	
A84-282019	43.0	59.9	43.5	39.2	35.4	63.5	44.5	54.8	65.8	48.8	
HC80-585	49.5	61.7	36.5	55.1	37.3	61.1	36.8	53.7	52.5	50.5	
HC80-586	40.4	58.6	32.5	45.6	32.6	58.7	37.5	52.4	46.3	46.3	
HC80-587	41.2	53.0	30.8	57.1	29.9	58.7	46.7	50.6	53.3	46.8	
HC81-2792	36.4	60.1	40.2	49.9	34.3	56.2	41.9	52.6	47.0	45.5	
HC82-1386	44.9	50.7	39.5	52.0	34.7	61.6	42.0	53.8	51.3	43.0	
HM8469	58.9	54.4	42.6	56.1	41.2	65.6	44.0	59.4	58.9	46.9	
HM8470	60.4	62.1	47.7	58.5	37.0	65.7	42.7	55.8	63.5	51.4	
HM8471	56.2	61.6	44.5	63.0	44.4	68.4	41.8	60.9	60.9	49.4	
U80-64032	51.6	59.2	45.9	52.6	39.6	57.1	43.7	49.7	60.1	53.5	
U80-68130	48.2	58.6	47.1	40.4	41.1	66.4	42.6	56.9	61.9	46.5	
C.V. (%)	9.7	6.0	12.3	18.9	15.4	4.6	14.0	5.6	8.2	6.8	
L.S.D. (5%)	7.8	5.7	5.9	15.6	NS	4.7	9.6	6.3	7.4	5.2	
Row Sp. (In.)	30	30	30	30	30	30	30	24	24	30	
Rows/Plot	4	4	4	4	4	4	4	4	4	4	
Reps	3	3	3	3	3	3	3	2	3	3	

UNIFORM TEST III, 1986

YIELD RANK

Strain	Yield Rank	Stuart IA	Eldorado IL	Urbana IL	Lafayette IN	Bluff-ton IN	Sullivan IN	Lexing-ton KY	Man-hattan KS	Pow-hattan KS	Queens-town MD
Century 84 (II)	20	11	24	11	25	11	18	4	24	25	20
Elf	24	20	13	17	8	25	22	11	16	21	14
HC Elf BC	18	19	2	20	10	22	14	23	22	6	25
Harper (III)	7	21	14	16	20	8	12	14	6	13	6
A Harper BC	5	25	7	22	15	9	3	9	2	4	4
Hobbit	17	9	25	8	2	20	24	20	12	2	21
HC Hobbit BC	13	15	12	13	3	19	11	15	10	1	16
Pella 86	7	10	10	12	19	1	8	12	23	23	7
Sprite	21	8	21	14	21	18	19	16	7	18	22
HC Sprite BC	15	1	16	3	11	14	21	22	8	15	10
Zane	11	14	11	6	9	4	4	8	18	24	7
Chamberlain	10	12	9	21	7	12	2	18	20	17	10
Morgan (IV)	14	22	3	25	14	3	6	1	20	16	1
A83-372027	4	23	4	18	24	6	7	10	3	10	5
A84-282019	11	6	23	1	1	7	17	12	8	18	12
HC80-585	15	2	19	4	17	17	15	24	16	8	24
HC80-586	22	5	20	7	4	16	19	25	13	3	17
HC80-587	19	12	18	9	23	24	25	20	4	6	18
HC81-2792	25	18	22	19	13	21	23	19	18	12	18
HC82-1386	22	7	17	2	18	23	16	7	25	22	23
HM8469	3	24	1	24	21	5	9	2	5	4	3
HM8470	2	17	6	14	16	10	1	5	10	10	13
HM8471	1	16	5	10	12	12	5	6	1	8	9
U80-64032	9	2	15	5	4	15	10	3	13	20	15
U80-68130	6	4	8	23	6	2	13	17	15	14	2

UNIFORM TEST III, 1986

YIELD RANK

Strain	Columbia MO	Mead NE	Adelphia NJ	Hoyt-ville OH	Ripley OH	S.Charles-ton OH	Wooster OH	Harrow ONT	Landis-ville PA	Elk Point SD	Lubbock TX
Century 84 (II)	20	22	9	2	11	23	16	14	19	16	
Elf	6	18	9	25	13	17	22	22	20	23	
HC Elf BC	10	20	6	13	14	17	7	15	24	24	
Harper (III)	7	6	2	19	2	6	19	6	14	7	
A Harper BC	8	11	7	5	2	9	21	12	10	12	
Hobbit	17	1	11	20	19	10	23	25	18	3	
HC Hobbit BC	20	5	17	14	12	20	9	21	16	1	
Pella 86	12	15	8	3	18	14	1	7	11	13	
Sprite	22	10	14	11	25	17	20	20	25	5	
HC Sprite BC	18	16	24	15	16	12	11	5	23	9	
Zane	3	25	20	22	4	7	11	10	7	22	
Chamberlain	12	17	4	17	6	15	3	2	9	11	
Morgan (IV)	5	23	16	21	5	16	7	11	13	25	
A83-372027	9	14	21	8	7	2	14	3	5	17	
A84-282019	19	8	13	24	20	8	4	13	1	10	
HC80-585	14	3	22	8	15	12	25	17	14	6	
HC80-586	24	13	23	17	23	21	24	19	22	19	
HC80-587	23	21	25	6	24	21	2	22	12	15	
HC81-2792	25	6	17	16	22	25	16	18	20	20	
HC82-1386	16	24	19	12	21	11	15	15	17	21	
HM8469	2	19	15	7	8	5	5	3	8	14	
HM8470	1	2	1	4	16	4	10	9	2	4	
HM8471	4	4	11	1	1	1	18	1	4	7	
U80-64032	11	9	5	10	10	24	6	24	6	2	
U80-68130	15	12	3	23	9	3	11	8	3	17	

UNIFORM TEST III, 1986

MATURITY (Date)

Strain	Mean 19 Tests	Stuart IA	Eldorado IL	Urbana IL	Lafayette IN	Bluff-ton IN	Sullivan IN	Lexing-ton KY	Man-hattan KS	Pow-hattan KS	Queens-town MD
Century 84 (II)	-8.5	-8	-14	-8	-13	-5	-13	-12	-7		-10
Elf	+5.6	+6	+9	+4	+10	+6	-1	+12	+5		+3
HC Elf BC	+7.6	+7	+13	+5	+13	+7	+4	+13	+11		+4
Harper (III)	9-19.6	9-22	8-31	9-8	9-23	9-23	9-14	9-10	9-23		9-21
A Harper BC	+0.4	0	+2	0	0	+1	-1	0	0		0
Hobbit	-2.1	0	-3	-5	+2	+2	-8	-9	0		-3
HC Hobbit BC	-0.3	+1	+3	-4	+3	+3	-5	-9	+1		-1
Pella 86	-4.1	-4	-4	-6	-9	-3	-9	-8	-4		-3
Sprite	-0.9	0	+4	-4	+1	+2	-5	-9	+2		-2
HC Sprite BC	-0.1	+1	+3	-4	+2	+2	-4	-9	+2		0
Zane	-4.2	-4	-7	-4	-2	-3	-8	-9	-2		-6
Chamberlain	+2.1	+2	+2	+3	+3	+4	-3	-3	0		+1
Morgan (IV)	+10.5	+7	+14	+12	+12	+9	+6	+16	+12		+8
A83-372027	+1.7	+2	-1	+3	+2	+3	-5	-2	+2		+2
A84-282019	-4.8	-4	-11	-5	-5	-3	-10	-9	-1		-5
HC80-585	+0.9	+2	+4	-5	+4	+4	-1	-8	+2		0
HC80-586	+3.3	+4	+7	+2	+7	+5	-2	-5	+7		+1
HC80-587	+2.4	+2	+7	-1	+7	+5	-5	-5	+2		+1
HC81-2792	-3.7	-1	-1	-7	-2	-2	-9	-8	-2		-3
HC82-1386	-1.2	0	-4	-3	-1	+1	-7	-8	-1		-5
HM8469	+4.6	+2	+7	+5	+5	+6	+2	+4	+3		+2
HM8470	+1.4	+1	0	+2	+1	+4	-1	0	-1		+2
HM8471	-0.1	0	-2	+1	-1	+1	-5	-1	0		-1
U80-64032	-3.3	-1	-8	-3	-5	-2	-10	-9	0		-2
U80-68130	+2.7	+3	+2	+3	+3	+4	-3	0	+3		+1
Date of Planting	5-17	5-6	5-2	5-5	5-23	6-3	5-9	5-21	6-2		5-29
Days to Mature	125	139	121	126	123	112	128	112	113		115

UNIFORM TEST III, 1986

MATURITY (Date)

Strain	Columbia MO*	Mead NE	Adelphia NJ	Hoyt-ville OH	Ripley OH	S.Charles-ton OH	Wooster OH	Harrow ONT	Landis-ville PA	Elk Point SD	Lubbock TX
Century 84 (II)	-8	-8	-6	-7	-10	-5	-6	-12	-9	-6	-3
Elf	+5	+10	+4	+2	+1	+10	+1	+10	+4	+6	+3
HC Elf BC	+6	+15	+4	+5	+4	+12	+3	+12	+4	+6	+3
Harper (III)	-0	9-28	9-29	9-23	9-5	9-13	9-21	10-10	9-22	10-7	9-11
A Harper BC	-1	+2	+1	0	-3	+2	-1	+1	+2	0	+2
Hobbit	-2	+4	-2	-1	-8	0	-5	+1	-9	+1	+3
HC Hobbit BC	-1	+10	-2	+1	-6	+2	-3	+2	-7	+3	+3
Pella 86	-5	-2	-1	-4	-10	-3	-4	-8	-4	-3	+3
Sprite	0	+6	-2	+2	-9	-1	-4	+2	-4	+1	+2
HC Sprite BC	+1	+7	-2	+2	-4	0	-2	+2	-4	+2	+4
Zane	-2	-3	-2	-4	-6	-3	-5	-7	-2	-2	-1
Chamberlain	-1	+2	+6	+1	-1	+6	+3	+6	+4	+2	+1
Morgan (IV)	+14	+14	+10	+7	+11	+13	+7	+14	+14	+10	+3
A83-372027	+1	+3	+3	0	-1	+5	+1	+8	+5	+1	+1
A84-282019	-5	-3	-2	-3	-8	-4	-5	-7	-7	-1	+2
HC80-585	+1	+9	-2	+2	-5	+1	-4	0	0	+2	+4
HC80-586	+4	+9	+1	+3	0	+6	+1	+4	+4	+3	+5
HC80-587	+3	+8	0	+3	0	+5	+2	+3	+4	+3	+5
HC81-2792	-2	+1	-6	-2	-7	-3	-6	-7	-9	0	+3
HC82-1386	0	+3	0	-2	-7	+4	-4	+3	+4	+1	+4
HM8469	+6	+4	+4	+4	+5	+9	+5	+6	+9	+4	+1
HM8470	+2	+3	+2	+1	-1	+5	+1	+2	+4	+1	+1
HM8471	-1	+1	+1	-1	0	+1	-1	+1	+4	0	+1
U80-64032	-3	0	0	-3	-10	-4	-4	-4	-2	0	+5
U80-68130	+2	+6	+4	0	0	+6	+3	+6	+4	+3	+4
Date of Planting	-	5-21	5-27	5-7	5-3	5-5	5-9	6-4	5-23	5-22	5-13
Days to Mature	-	130	125	139	125	131	135	128	122	138	121

*Not included in mean.

UNIFORM TEST III, 1986

LODGING (Score)

Strain	Mean 21 Tests	Stuart IA	Eldorado IL	Urbana IL	Lafayette IN	Bluff-ton IN	Sullivan IN	Lexing-ton KY	Man-hattan KS	Pow-hattan KS	Queens-town MD
Century 84 (II)	1.5	1.4	1.0	1.0	1.5	1.0	1.3	1.5	1.7	2.3	1.8
Elf	1.3	1.4	1.0	1.0	1.0	1.0	1.0	1.7	1.0	3.0	1.0
HC Elf BC	1.3	1.5	1.0	1.0	1.0	1.0	1.0	1.7	1.0	1.7	1.2
Harper (III)	1.4	1.5	1.0	1.0	2.0	1.0	1.2	1.5	1.0	1.7	2.2
A Harper BC	1.5	1.5	1.1	1.0	2.5	1.0	1.2	1.5	1.3	1.7	2.0
Hobbit	1.2	1.3	1.0	1.0	1.0	1.0	1.0	1.7	1.0	1.7	1.2
HC Hobbit BC	1.3	1.4	1.0	1.0	1.0	1.0	1.0	2.0	1.0	1.7	1.5
Pella 86	1.5	1.4	1.1	1.0	1.5	1.2	1.0	1.8	1.0	1.7	2.0
Sprite	1.4	1.4	1.1	1.0	1.0	1.0	1.0	1.5	2.0	2.0	1.7
HC Sprite BC	1.6	1.4	1.1	1.0	1.0	1.2	1.0	2.7	2.0	2.3	1.8
Zane	1.7	1.3	1.0	1.0	2.7	1.2	1.3	1.3	2.0	2.0	2.2
Chamberlain	2.2	2.3	1.4	2.0	2.8	2.0	1.7	3.0	2.3	3.3	2.7
Morgan (IV)	2.4	2.9	2.0	1.7	3.5	1.8	1.7	3.2	2.0	3.0	2.5
A83-372027	2.0	1.9	1.4	1.3	2.8	1.7	1.5	2.0	2.0	3.3	2.2
A84-282019	1.6	1.5	1.1	1.3	2.7	1.0	1.2	1.5	2.0	2.0	2.0
HC80-585	1.2	1.4	1.0	1.0	1.0	1.0	1.0	1.7	1.0	2.3	1.2
HC80-586	1.2	1.3	1.0	1.0	1.0	1.0	1.0	1.7	1.0	1.3	1.2
HC80-587	1.3	1.4	1.0	1.0	1.0	1.0	1.0	1.8	1.0	1.7	1.3
HC81-2792	1.4	1.4	1.0	1.0	1.0	1.0	1.0	2.2	1.7	1.7	1.5
HC82-1386	1.9	1.7	1.1	1.3	2.2	1.2	1.2	2.7	2.0	2.7	2.0
HM8469	1.5	1.5	1.1	1.0	2.3	1.2	1.0	1.3	1.0	1.7	2.0
HM8470	1.6	1.4	1.2	1.0	2.8	1.0	1.3	1.5	1.3	2.0	2.2
HM8471	1.5	1.4	1.1	1.0	2.2	1.0	1.2	1.8	1.0	1.7	2.0
U80-64032	1.8	1.7	1.0	1.7	3.3	1.3	1.0	2.3	2.0	2.3	2.0
U80-68130	1.8	2.2	1.2	1.7	2.3	1.5	1.0	1.7	1.3	2.3	2.3

UNIFORM TEST III, 1986

LODGING (Score)

Strain	Columbia MO	Mead NE	Adelphia NJ	Hoyt-ville OH	Ripley OH	S.Charles-ton OH	Wooster OH	Harrow ONT	Landis-ville PA	Elk Point SD	Lubbock TX
Century 84 (II)	1.5	1.0	1.3	1.4	1.3	1.7	1.2	1.5	2.0	1.0	3.0
Elf	1.3	1.0	1.0	1.2	1.1	1.7	1.2	1.8	2.0	1.3	1.0
HC Elf BC	1.4	1.0	1.0	1.3	1.2	1.7	1.3	1.8	1.5	1.7	1.0
Harper (III)	1.3	1.0	1.0	1.3	1.8	1.3	1.3	1.0	1.5	1.0	2.0
A Harper BC	1.2	1.0	1.0	1.5	1.7	1.3	1.2	1.5	2.0	1.0	2.5
Hobbit	1.3	1.0	1.0	1.2	1.1	1.3	1.1	1.0	1.5	1.7	1.0
HC Hobbit BC	1.3	1.0	1.0	1.2	1.2	1.5	1.2	1.3	1.5	1.7	1.0
Pella 86	1.4	1.0	1.3	1.3	1.3	1.7	1.3	1.0	2.0	1.0	3.7
Sprite	1.4	1.0	1.3	1.2	1.0	1.8	1.1	2.0	1.5	2.0	1.0
HC Sprite BC	1.4	1.0	1.0	1.3	1.1	1.8	1.2	2.3	2.5	2.3	1.2
Zane	1.8	1.0	1.7	1.3	1.5	2.0	1.3	1.3	2.0	1.3	3.5
Chamberlain	2.7	1.7	1.7	1.4	1.8	2.5	1.4	2.3	2.5	2.3	2.5
Morgan (IV)	2.3	2.3	2.0	1.8	1.8	2.7	1.4	3.0	2.5	2.7	3.5
A83-372027	2.3	1.5	2.3	1.5	1.4	2.0	1.4	2.3	3.0	1.3	3.8
A84-282019	1.5	1.2	1.0	1.3	1.3	1.7	1.3	1.5	2.0	1.3	3.0
HC80-585	1.3	1.0	1.0	1.2	1.1	1.3	1.1	1.0	1.5	1.3	1.2
HC80-586	1.3	1.0	1.0	1.2	1.1	1.5	1.2	1.3	2.0	1.3	1.0
HC80-587	1.3	1.0	1.3	1.3	1.0	1.7	1.2	1.3	2.0	1.3	1.0
HC81-2792	1.5	1.0	1.3	1.3	1.1	2.0	1.2	1.3	2.5	2.0	1.2
HC82-1386	2.0	1.7	2.3	1.5	1.5	2.5	1.3	2.3	2.5	1.7	3.5
HM8469	1.5	1.0	1.0	1.4	1.3	1.7	1.3	1.5	2.0	1.0	4.0
HM8470	1.8	1.3	1.0	1.5	1.3	1.8	1.3	1.3	2.0	1.0	4.0
HM8471	1.4	1.0	1.0	1.4	1.2	1.7	1.2	1.3	1.5	1.0	4.0
U80-64032	1.7	1.5	1.3	1.4	1.7	2.2	1.3	1.0	2.0	1.7	2.7
U80-68130	1.9	1.2	2.0	1.4	1.4	2.0	1.3	2.0	3.0	1.7	3.0

UNIFORM TEST III, 1986

PLANT HEIGHT (Inches)

Strain	Mean 21 Tests	Stuart IA	Eldorado IL	Urbana IL	Lafayette IN	Bluff-ton IN	Sullivan IN	Lexing-ton KY	Man-hattan KS	Pow-hattan KS	Queens-town MD
Century 84 (II)	33	37	27	41	39	34	27	32	33	33	27
Elf	21	22	16	23	24	23	14	22	20	24	16
HC Elf BC	21	22	18	21	24	22	15	20	19	27	15
Harper (III)	33	40	28	43	39	30	29	33	43	38	32
A Harper BC	34	40	31	41	39	29	33	32	39	36	30
Hobbit	20	20	15	20	23	23	13	21	22	27	14
HC Hobbit BC	22	22	17	21	23	24	17	25	22	26	15
Pella 86	34	39	31	41	42	33	28	34	40	37	32
Sprite	21	20	15	21	24	25	15	22	22	25	15
HC Sprite BC	21	22	16	21	23	25	17	24	21	26	15
Zane	34	40	30	43	39	36	27	34	43	38	29
Chamberlain	39	45	35	48	43	40	33	36	47	43	35
Morgan (IV)	40	48	41	51	45	40	35	37	50	42	39
A83-372027	39	46	37	50	45	41	31	37	45	45	35
A84-282019	33	38	27	42	38	33	26	34	41	34	31
HC80-585	22	21	16	22	24	25	18	24	21	27	16
HC80-586	21	19	15	23	23	23	15	24	21	24	15
HC80-587	21	22	16	22	23	23	15	25	20	27	16
HC81-2792	22	22	15	22	26	26	15	26	21	28	16
HC82-1386	28	27	21	34	30	31	19	27	29	31	23
HM8469	36	41	36	43	41	36	31	32	43	36	34
HM8470	34	39	32	44	41	32	34	33	40	32	31
HM8471	33	38	32	41	38	31	30	31	38	35	30
U80-64032	34	38	26	43	39	33	20	34	42	40	30
U80-68130	35	43	29	47	43	37	25	34	21	39	35

UNIFORM TEST III, 1986

PLANT HEIGHT (Inches)

Strain	Columbia MO	Mead NE	Adelphia NJ	Hoyt-ville OH	Ripley OH	S.Charles-ton OH	Wooster OH	Harrow ONT	Landis-ville PA	Elk Point SD	Lubbock TX
Century 84 (II)	32	35	32	32	30	38	31	35	33	41	19
Elf	21	26	21	19	19	26	24	28	21	29	9
HC Elf BC	20	28	21	24	20	25	23	28	20	28	10
Harper (III)	34	35	31	26	32	36	30	34	33	36	19
A Harper BC	34	38	29	33	31	34	27	40	32	42	20
Hobbit	16	26	20	22	18	25	20	23	20	30	9
HC Hobbit BC	19	27	20	23	17	27	20	26	21	30	10
Pella 86	35	34	34	33	29	38	32	34	35	41	21
Sprite	16	28	20	22	14	26	21	25	18	31	9
HC Sprite BC	18	28	18	22	17	27	20	30	17	31	9
Zane	34	35	34	29	31	37	32	35	32	42	22
Chamberlain	41	39	40	30	40	39	38	39	38	44	21
Morgan (IV)	44	44	36	38	37	38	33	42	38	45	24
A83-372027	40	41	38	36	36	38	38	39	38	43	24
A84-282019	32	36	31	27	29	35	30	35	32	38	19
HC80-585	18	28	20	21	17	30	22	25	22	32	10
HC80-586	16	27	19	20	19	27	22	26	21	29	10
HC80-587	19	27	21	23	15	26	21	25	21	31	8
HC81-2792	16	28	21	25	19	27	23	24	22	33	8
HC82-1386	26	35	26	29	26	28	31	31	26	36	17
HM8469	37	36	32	34	35	38	33	34	35	40	21
HM8470	36	35	32	31	35	37	33	33	33	41	18
HM8471	34	34	31	32	33	36	27	33	33	37	19
U80-64032	33	37	33	31	33	33	33	33	35	41	21
U80-68130	39	39	35	30	37	40	32	36	37	44	19

UNIFORM TEST III, 1986

SEED QUALITY (Score)

Strain	Mean 19 Tests	Stuart IA	Eldorado IL	Urbana IL	Lafayette IN	Bluff-ton IN	Sullivan IN	Lexing-ton KY	Man-hattan KS	Pow-hattan KS	Queens-town MD
Century 84 (II)	2.4	2.0	3.2	3.7	2.5	1.0	2.5	2.0	2.0	4.0	2.2
Elf	2.0	4.0	2.7	2.7	1.5	1.0	2.0	3.0	1.0	3.0	1.2
HC Elf BC	2.2	4.0	3.0	2.4	2.0	1.0	2.0	2.0	1.0	3.0	1.7
Harper (III)	2.2	4.0	3.2	2.7	2.0	1.0	2.0	2.0	2.0	4.0	2.0
A Harper BC	2.0	3.0	3.3	2.4	1.5	1.0	2.0	2.0	2.0	2.0	2.0
Hobbit	1.9	2.0	2.5	2.9	2.0	1.0	2.0	2.0	1.0	3.0	1.7
HC Hobbit BC	1.9	2.0	2.2	3.0	2.0	1.0	2.0	2.0	1.0	3.0	1.3
Pella 86	2.2	2.0	3.2	3.5	2.0	1.0	2.0	2.0	2.0	5.0	2.0
Sprite	1.8	2.0	2.0	2.6	2.0	1.0	1.5	1.0	1.0	3.0	1.3
HC Sprite BC	1.8	2.0	2.2	2.3	1.5	1.0	1.5	2.0	1.0	3.0	1.2
Zane	2.1	2.0	3.5	2.3	1.5	1.0	2.0	2.0	1.0	5.0	2.0
Chamberlain	2.2	4.0	3.2	3.3	2.0	1.0	1.5	2.0	2.0	4.0	2.0
Morgan (IV)	2.0	3.0	2.3	3.0	1.5	1.0	1.5	4.0	1.0	3.0	1.0
A83-372027	2.0	2.0	2.0	2.2	2.0	1.0	2.5	2.0	1.0	4.0	1.0
A84-282019	2.1	2.0	2.8	2.7	1.5	1.0	2.0	2.0	1.0	4.0	1.2
HC80-585	1.9	1.0	3.0	2.6	2.0	1.0	1.5	2.0	1.0	3.0	1.7
HC80-586	1.9	2.0	3.3	1.9	1.5	1.0	1.5	2.0	1.0	3.0	1.8
HC80-587	1.8	2.0	2.7	1.9	1.5	1.0	1.5	1.0	1.0	3.0	1.2
HC81-2792	1.8	1.0	2.0	2.9	1.5	1.0	1.5	1.0	1.0	3.0	1.7
HC82-1386	2.1	2.0	3.2	2.4	1.5	1.0	1.5	1.0	1.0	4.0	2.0
HM8469	1.8	2.0	2.0	1.7	1.5	1.0	1.5	2.0	1.0	4.0	1.0
HM8470	1.8	3.0	2.3	1.5	1.5	1.0	1.5	2.0	1.0	3.0	1.2
HM8471	1.8	2.0	2.2	1.7	1.5	1.0	1.5	2.0	1.0	4.0	1.2
U80-64032	2.9	4.0	3.8	3.9	1.5	1.5	2.0	2.0	3.0	5.0	4.0
U80-68130	2.3	3.0	3.7	2.9	2.5	1.0	2.0	2.0	1.0	4.0	2.0

UNIFORM TEST III, 1986

SEED QUALITY (Score)

Strain	Columbia MO	Mead NE	Adelphia NJ	Hoyt-ville OH	Ripley OH	S.Charles-ton OH	Wooster OH	Harrow ONT	Landis-ville PA	Elk Point SD	Lubbock TX
Century 84 (II)	3.7	2.3	1.0	2.0	1.8		1.3	2.0	2.5	3.0	
Elf	2.3	1.5	1.0	1.3	1.0		1.2	3.0	1.5	4.0	
HC Elf BC	2.3	1.7	1.0	1.6	1.5		2.0	2.0	2.0	5.0	
Harper (III)	2.3	2.3	1.0	1.3	1.7		1.1	2.0	2.0	3.0	
A Harper BC	1.7	2.3	1.0	1.3	1.7		1.1	2.0	2.0	3.0	
Hobbit	2.7	1.5	1.0	1.4	1.2		1.2	3.0	1.5	3.0	
HC Hobbit BC	3.3	1.7	1.0	1.7	1.0		1.5	2.0	1.5	3.0	
Pella 86	2.3	2.5	1.0	1.4	1.5		1.2	2.0	2.0	4.0	
Sprite	1.3	1.8	1.0	1.7	1.8		1.3	3.0	1.5	3.0	
HC Sprite BC	2.0	1.5	1.0	1.6	1.5		1.2	3.0	1.5	3.0	
Zane	2.3	2.3	1.0	1.6	2.0		1.2	1.0	2.5	3.0	
Chamberlain	3.7	1.7	1.0	2.0	1.9		1.2	1.0	2.0	3.0	
Morgan (IV)	1.3	1.0	1.0	2.0	1.7		1.3	1.0	2.5	5.0	
A83-372027	2.0	1.0	1.0	2.0	1.3		1.2	2.0	2.0	5.0	
A84-282019	3.7	2.0	1.0	2.2	1.7		1.3	2.0	2.5	4.0	
HC80-585	2.0	1.5	1.0	1.4	1.7		1.5	3.0	2.0	3.0	
HC80-586	2.3	1.7	1.0	1.5	1.5		1.3	2.0	2.0	4.0	
HC80-587	2.0	1.8	1.0	1.2	1.3		1.3	2.0	2.0	4.0	
HC81-2792	3.7	1.5	1.0	1.3	1.0		1.3	2.0	2.0	3.0	
HC82-1386	3.3	2.0	1.0	1.4	1.9		1.4	3.0	2.0	4.0	
HM8469	2.3	1.0	1.0	1.6	1.1		1.3	2.0	2.0	4.0	
HM8470	2.3	1.3	1.0	1.6	1.1		1.2	2.0	2.0	3.0	
HM8471	2.3	1.2	1.3	1.8	1.4		1.2	2.0	2.5	3.0	
U80-64032	4.3	3.2	2.0	2.4	2.6		1.5	3.0	2.0	4.0	
U80-68130	2.7	2.0	1.0	1.8	2.3		1.2	2.0	2.5	4.0	

UNIFORM TEST III, 1986

SEED SIZE (g/100)

Strain	Mean 21 Tests	Stuart IA	Eldorado IL	Urbana IL	Lafayette IN	Bluff-ton IN	Sullivan IN	Lexing-ton KY	Man-hattan KS	Pow-hattan KS	Queens-town MD
Century 84 (II)	17.0	16.3	15.5	15.7	18.5	17.5	16.5	12.5	19.0	23.9	16.5
Elf	16.0	17.8	15.1	16.3	17.7	15.1	14.3	12.3	18.1	19.8	16.0
HC Elf BC	16.6	18.1	16.3	16.7	19.0	15.8	13.9	12.7	18.1	20.8	16.5
Harper (III)	18.1	18.3	17.0	17.3	19.4	18.7	16.8	14.5	23.4	26.0	19.3
A Harper BC	18.3	18.3	17.9	17.2	20.6	18.0	16.7	13.5	22.7	19.1	18.6
Hobbit	15.7	15.0	15.2	16.1	17.8	15.3	13.9	9.3	17.5	22.0	15.4
HC Hobbit BC	15.6	15.7	16.5	15.1	17.4	16.1	13.5	9.0	17.9	20.1	14.8
Pella 86	18.7	18.9	17.4	18.3	19.9	18.3	17.2	12.5	20.4	25.4	18.7
Sprite	17.1	17.5	17.1	17.7	19.6	15.9	14.6	10.0	20.3	23.1	16.4
HC Sprite BC	16.7	17.5	17.8	17.8	18.0	15.6	15.0	8.9	18.8	22.9	15.7
Zane	18.4	18.9	16.3	18.0	20.7	17.6	17.6	12.3	21.8	25.2	17.7
Chamberlain	17.6	17.1	15.8	17.8	18.7	17.8	16.2	11.4	21.8	24.0	17.4
Morgan (IV)	17.0	15.6	16.6	16.3	18.4	17.2	15.3	15.9	20.2	20.3	15.7
A83-372027	14.4	13.9	13.3	14.7	14.1	13.4	12.8	9.2	18.3	20.3	14.3
A84-282019	16.9	16.1	15.9	16.5	17.9	16.7	16.1	11.9	19.8	25.2	17.2
HC80-585	18.3	19.2	19.2	18.5	19.1	17.9	16.3	10.8	21.7	25.0	17.5
HC80-586	18.3	18.9	19.0	19.7	21.3	17.4	14.4	11.2	20.5	24.1	17.7
HC80-587	17.0	17.7	16.9	17.6	18.7	16.7	14.4	10.7	19.4	21.8	16.1
HC81-2792	14.9	15.1	15.3	14.6	16.7	14.6	13.3	9.6	16.8	20.4	14.7
HC82-1386	17.0	17.9	15.8	18.2	19.4	16.9	16.7	10.9	18.4	21.8	16.9
HM8469	14.5	14.3	11.5	12.6	15.3	14.6	11.7	10.7	16.7	25.8	13.8
HM8470	14.7	14.4	12.7	13.6	15.0	15.1	14.3	10.7	16.7	18.6	15.4
HM8471	14.6	14.7	12.8	13.7	15.5	14.4	13.0	10.6	18.4	18.7	14.3
U80-64032	16.3	16.6	16.7	14.8	16.8	16.9	13.4	11.0	19.7	24.0	16.3
U80-68130	17.0	17.2	15.5	16.2	18.3	17.7	14.8	10.9	21.7	22.6	16.8

UNIFORM TEST III, 1986

SEED SIZE (g/100)

Strain	Columbia MO	Mead NE	Adelphia NJ	Hoyt-ville OH	Ripley OH	S.Charles-ton OH	Wooster OH	Harrow ONT	Landis-ville PA	Elk Point SD	Lubbock TX
Century 84 (II)	18.9	17.4		16.3	14.0		15.8	18.1	16.8	16.8	
Elf	17.0	18.7		14.3	14.8		13.9	17.0	14.9	14.9	
HC Elf BC	17.8	18.6		15.6	13.9		15.8	18.4	14.8	16.6	
Harper (III)	20.1	20.6		18.4	16.6		17.6	18.0	15.9	17.3	
A Harper BC	20.6	20.5		18.3	16.3		17.5	18.0	16.6	18.2	
Hobbit	17.8	18.2		14.3	14.0		14.0	16.5	14.7	15.1	
HC Hobbit BC	18.4	17.4		15.2	12.7		14.9	16.1	14.0	15.2	
Pella 86	22.9	19.9		18.7	14.7		18.6	19.0	17.4	19.1	
Sprite	20.6	18.8		16.8	14.2		15.5	17.1	15.2	17.1	
HC Sprite BC	20.0	19.2		16.2	13.6		15.9	17.1	15.6	15.4	
Zane	22.2	21.8		17.8	15.6		16.9	17.4	16.0	17.9	
Chamberlain	18.8	19.1		16.1	15.4		16.1	20.2	15.7	16.6	
Morgan (IV)	18.1	18.8		16.4	16.2		14.6	18.9	15.4	15.2	
A83-372027	15.6	16.4		14.2	12.2		11.9	15.5	13.0	15.6	
A84-282019	17.8	18.5		16.0	13.5		15.6	16.4	16.2	16.2	
HC80-585	21.7	20.7		18.7	13.9		16.2	18.3	17.6	17.8	
HC80-586	21.0	20.4		17.6	14.4		16.7	18.3	17.1	18.8	
HC80-587	20.8	19.2		16.3	16.4		15.8	17.1	14.7	16.4	
HC81-2792	19.1	16.8		13.5	12.1		13.2	14.5	13.6	14.4	
HC82-1386	19.4	18.7		16.1	13.7		15.8	17.3	16.5	15.7	
HM8469	13.7	15.8		13.4	12.7		13.4	15.7	14.2	15.3	
HM8470	15.8	16.9		14.3	13.1		13.7	15.0	14.8	15.0	
HM8471	15.6	16.1		13.7	12.8		13.3	15.0	14.3	15.0	
U80-64032	18.3	18.2		16.4	12.6		14.3	15.1	15.6	15.8	
U80-68130	18.0	18.1		16.1	15.2		15.0	19.7	16.8	15.8	

UNIFORM TEST III, 1986

PROTEIN (%)

Strain	Mean 5 Tests	Eldorado,IL	Urbana,IL	Lafayette,IN	Manhattan,KS	Hoytville, OH
Century 84 (II)	41.9	42.5	43.3	41.6	41.2	40.9
Elf	40.9	40.3	42.3	42.1	40.1	39.8
HC ELF BC	41.2	41.7	41.1	41.1	40.4	41.5
Harper (III)	39.9	39.3	41.3	40.2	39.7	39.1
A Harper BC	40.0	40.0	39.9	39.9	40.7	39.3
Hobbit	37.8	39.2	--	37.3	37.6	36.9
HC Hobbit BC	38.2	38.7	--	38.3	38.3	37.6
Pella 86	38.9	38.9	39.5	38.3	38.8	39.2
Sprite	39.0	39.5	39.9	38.2	38.3	39.1
HC Sprite BC	39.0	39.9	39.0	39.0	37.7	39.3
Zane	38.4	39.1	38.3	38.7	39.0	37.1
Chamberlain (III)	39.6	40.0	41.2	39.5	39.1	38.4
Morgan (IV)	41.7	41.7	42.4	41.3	43.0	40.1
A83-372027	38.8	37.2	39.8	39.0	39.0	39.1
A84-282019	39.4	40.1	39.9	38.7	39.2	39.1
HC80-585	38.8	39.0	39.1	39.3	38.3	38.2
HC80-586	39.1	40.8	39.7	38.6	37.2	39.4
HC80-587	39.1	39.2	39.2	39.6	38.4	38.9
HC81-2792	38.1	37.9	40.0	38.0	37.4	37.4
HC82-1386	39.5	40.9	39.1	38.8	40.1	38.7
HM3469	41.0	40.7	42.2	41.1	40.9	39.9
HM8470	40.0	40.4	39.7	39.9	39.7	40.5
HM8471	40.4	40.4	40.7	40.2	40.7	39.9
U80-64032	39.0	39.4	39.6	39.0	39.3	37.8
U80-68130	38.6	38.6	39.1	38.5	38.5	38.2

UNIFORM TEST III, 1986

OIL (%)

Strain	Mean 5 Tests	Eldorado,IL	Urbana,IL	Lafayette,IN	Manhattan,KS	Hoytville,OH
Century 84 (II)	21.2	21.7	21.7	21.2	20.9	20.4
Elf	20.6	22.2	20.7	19.3	20.7	19.9
HC ELF BC	20.3	22.2	20.4	19.6	20.6	18.9
Harper (III)	21.2	22.4	21.5	20.8	21.5	19.7
A Harper BC	21.5	23.2	22.0	20.6	21.1	20.4
Hobbit	22.9	25.1	--	22.3	22.7	21.4
HC Hobbit BC	22.2	23.7	--	21.8	21.7	21.7
Pella 86	22.4	23.1	24.2	21.8	21.7	21.2
Sprite	23.2	24.1	26.0	22.8	22.5	20.7
HC Sprite BC	22.9	24.3	25.1	21.6	22.9	20.6
Zane	22.7	24.0	23.6	22.1	22.3	21.3
Chamberlain (III)	21.2	22.6	21.0	20.8	20.9	20.5
Morgan (IV)	20.2	20.7	20.1	20.3	19.9	19.8
A83-372027	22.4	24.4	22.0	22.1	22.0	21.3
A84-282019	22.0	23.6	22.6	22.1	21.2	20.4
HC80-585	23.1	25.0	23.9	21.6	23.6	21.3
HC80-586	22.3	24.0	23.3	21.7	22.2	20.5
HC80-587	22.6	24.7	23.1	21.4	22.7	20.9
HC81-2792	23.1	24.6	25.0	22.4	22.6	21.0
HC82-1386	21.6	22.7	22.6	21.0	23.3	20.3
HM8469	20.9	22.3	20.1	21.3	21.0	20.0
HM8470	21.4	22.0	21.4	21.6	22.1	19.9
HM8471	21.5	22.9	21.5	21.3	21.4	20.3
U80-64032	21.3	22.6	22.9	20.3	20.1	20.5
U80-68130	21.2	22.1	22.7	20.9	20.4	20.1

Preliminary Test IIIA, 1986

Strain	Parentage	Generation Composited
Century 84 (II)	Century[5] X Williams 82	BC4 F4
Harper (III)	Unknown	F4
Chamberlain	A76-304020 X Land O'Lakes Max	F4
Morgan (IV)	Union X Miles	F5
A85-391035	A79-336014 X Asgrow A1937	F5
A85-392010	A80-344003 X Elgin	F5
A85-392011	A80-344003 X Elgin	F5
A85-392015	Pride B203 X A80-344003	F5
A85-392026	A80-344003 X Midwest Oilseeds 2050	F5
A85-392028	A80-344003 X Asgrow A1937	F5
A85-392035	A80-245002 X Asgrow A1937	F5
A85-393001	Midwest Oilseeds 3010 X A80-245022	F5
A85-393025	Tri Valley Charger III X Elgin	F5
A85-393027	A81-157024 X A80-344003	F5
A85-393036	A80-344003 X Midwest Oilseeds 2050	F5
A85-394003	Midwest Oilseeds 3010 X A80-149008	F5
A85-394009	A79-331022 X A79-334010	F5
A85-394010	Asgrow A1937 X A79-331022	F5
A85-394022	A79-331022 X A79-334010	F5
LN82-589	Sparks X U37219	F5
LN82-699	Sparks X U37219	F5
LN82-8865	K1056 X L73-4673	F5
LN83-1709	Hobbit X L27	F4
LN83-2840	LN78-2123 X HC76-4030	F4
LN83-5068	C1573 X Dawson	F4
LN83-7006	Sprite X Century	F4
LN83-7132	Sprite X Century	F4
LN83-7428	Douglas X Hardin	F4
U83-64062	U10426 X A75-103019	F6
U83-64065	U10426 X A75-103019	F6
U83-64067	U10426 X A75-103019	F6
U83-64069	U10426 X A75-103019	F6
U83-70015	Hodgson X U66434	F6
U83-72018	Nebsoy X Woodworth	F5
U83-72078	Nebsoy X A74-203002	F8
U83-73076	Nebsoy X Williams	F6
U83-74040	Wells II X Mead	F5

PRELIMINARY TEST IIIA, 1986

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code		Chlorosis Score Ames	Shattering Score Manhattan	BSR Plant N %	BSR Stem N %
Century 84 (II)	PTBSYBL	I	2.5	1	100	99.5
Harper (III)	PTBSYBL	I	3.2	1	100	87.2
Chamberlain (III)	PTBSYBL	I	2.8	1	100	64.9
Morgan (IV)	WTTDYBL	I	2.5	2	100	81.6
A85-391035	PTBDYBL	I	3.3	1	100	94.0
A85-392010	P+WTBDYBr	I	3.2	1	100	65.6
A85-392011	P+WTBDYBL	I	3.0	1	100	76.5
A85-392015	WG+TBDYY	I	3.0	2	100	68.0
A85-392026	WGBDYY+Bf	I	2.7	1	100	83.6
A85-392028	WTBDYBr	I	3.8	1	100	78.7
A85-392035	PTBDYBr	I	3.2	1	100	94.1
A85-393001	WG+TBDYBr	I	3.8	1	100	80.9
A85-393025	PTTDYBL	I	4.2	1	100	80.9
A85-393027	WGBDYBf	I	3.2	2	100	59.4
A85-393036	WTBDYY	I	2.4	2	100	71.2
A85-394003	PGBDYBf	I	2.7	1	100	78.1
A85-394009	PTTDYBl	I	3.5	1	100	58.0
A85-394010	PGTDYIb	I	3.2	2	100	68.2
A85-394022	PGTDYIb	I	3.8	1	90	52.5
LN82-589	PTTDYBl	I	2.5	-	100	93.8
LN82-699	PTTDYBL	I	2.8	-	100	99.5
LN82-8865	WTTDYY	I	4.7	1	100	98.5
LN83-1709	WGTDYBf	I	3.5	1	100	98.9
LN83-2840	P+WGTDYY+Gr	D	2.5	1	100	98.4
LN83-5068	PGTDYGr	I	2.8	1	100	91.0
LN83-7006	P+WTBDYBL	I	3.0	1	100	70.1
LN83-7132	WTTDYBL	I	2.7	1	100	78.3
LN83-7428	WGBDYBf	I	3.2	2	100	86.1
U83-64062	WGTDYBf	I	3.8	1	100	93.8
U83-64065	WGTSYBf	I	3.0	1	100	100.0
U83-64067	PGTDYIb	I	3.3	1	100	100.0
U83-64069	PGTDYIb	I	4.3	1	100	98.5
U83-70015	PGTDYBf	I	3.8	1	100	93.5
U83-72018	WTTDYBL	I	3.3	2	100	96.8
U83-72078	WTTDYBr	I	2.8	2	100	96.7
U83-73076	WTTSYBL	I	4.2	1	100	86.0
U83-74040	PGTDYIb	I	2.5	1	100	99.0

PRELIMINARY TEST IIIA, 1986

DISEASE DATA

Strain	PR	PS	PSB	SMV
	Vickery	Lafayette		
	Tolerance Score	a %	a %	a Score
Century 84 (II)	2.7		40	
Harper (III)	3.5	9	32	5E
Chamberlain (III)	2.3	16	28	5E
Morgan (IV)	2.8	10	50	5E
A85-391035	3.0	12	28	5E
A85-392010	2.5	15	28	5E
A85-392011	3.3	8	20	5E
A85-392015	2.8	9	18	5E
A85-392026	3.2	42	26	5E
A85-392028	3.1	20	26	5E
A85-392035	3.8	5	30	5E
A85-393001	2.8	8	24	5E
A85-393025	3.3	18	14	5E
A85-393027	2.9	12	44	5E
A85-393036	3.3	12	36	5E
A85-394003	3.2	8	22	5E
A85-394009	3.0	1	30	5E
A85-394010	2.7	9	24	5E
A85-394022	3.0	14	16	5E
LN82-589	3.2	27	46	5E
LN82-699	3.5	35	30	5E
LN82-8865	2.9	9	40	5E
LN83-1709	2.7	22	32	5E
LN83-2840	3.4	3	32	4E
LN83-5068	3.2	13	24	5E
LN83-7006	2.7	26	44	4E
LN83-7132	2.6	8	40	3M
LN83-7428	2.9	27	46	4E
U83-64062	3.1	15	32	1
U83-64065	3.2	16	22	4E
U83-64067	2.8	3	22	5E
U83-64069	3.2	16	28	5M
U83-70015	3.6	15	26	5E
U83-72018	3.5	10	18	4E
U83-72078	3.8	7	38	5E
U83-73076	3.2	12	28	1
U83-74040	4.5	15	38	5E

PRELIMINARY TEST IIIA, 1986
Regional Summary

Strain No. of Tests	Yield 7 bu/a	Rank 7 No.	Maturity 7 Date	Lodging 7 Score	Plant Height 7 In	Seed Quality 6 Score	Seed Size 6 g/100	Composition Protein %	Oil %
Century 84 (II)	54.3	20	-8.7	1.3	38	2.4	17.2	42.4	20.8
Harper (III)	55.8	14	9-20.3*	1.4	37	1.9	19.7	39.3	21.2
Chamberlain	58.7	4	+2.3	2.3	43	2.3	18.4	39.3	21.0
Morgan (IV)	54.5	18	+10.1	2.5	45	2.0	17.7	41.4	20.5
A85-391035	57.9	6	-1.9	1.7	39	2.0	16.4	38.9	21.7
A85-392010	55.7	15	+3.1	2.1	41	1.9	17.7	38.7	21.9
A85-392011	52.7	25	-1.3	1.5	37	2.1	15.5	38.3	20.5
A85-392015	52.9	24	-0.3	1.9	41	2.1	15.5	40.0	20.9
A85-392026	59.8	2	+2.1	1.4	39	2.0	16.1	38.9	21.3
A85-392028	53.4	22	+0.4	1.9	40	2.5	15.3	40.5	20.7
A85-392035	56.6	10	+0.4	1.7	41	1.9	14.0	38.5	21.3
A85-393001	60.7	1	+5.1	2.3	44	1.8	15.5	38.9	21.3
A85-393025	57.4	7	+2.7	2.0	39	1.9	15.9	37.1	22.2
A85-393027	56.1	13	+1.6	1.8	42	2.3	14.2	39.0	21.6
A85-393036	56.7	9	+2.6	1.6	37	2.0	15.0	40.2	21.3
A85-394003	56.2	12	+2.7	2.8	41	2.6	14.8	38.9	21.1
A85-394009	58.9	3	-0.1	2.2	42	2.2	17.2	40.6	20.8
A85-394010	56.3	11	+1.3	1.9	43	1.9	17.5	40.5	20.7
A85-394022	54.9	16	+0.7	1.6	40	2.0	17.7	41.2	20.7
LN82-589	52.1	27	+2.0	1.5	43	2.1	17.1	39.3	20.9
LN82-699	50.6	31	+1.3	2.3	43	2.1	16.8	39.8	20.0
LN82-8865	57.2	8	+2.4	2.3	37	2.0	16.8	41.9	20.2
LN83-1709	58.4	5	+1.3	1.4	39	2.5	15.6	38.0	22.3
LN83-2840	50.8	30	+1.4	1.3	29	1.9	14.2	40.9	20.2
LN83-5068	54.4	19	+1.6	2.7	39	2.3	17.4	39.2	21.9
LN83-7006	51.9	28	-3.6	2.4	42	2.2	17.5	39.4	22.2
LN83-7132	54.7	17	+2.6	2.4	45	1.7	16.9	38.6	21.6
LN83-7428	54.3	20	+1.7	2.2	40	2.8	19.4	38.2	21.8
U83-64062	49.6	34	-4.1	1.9	38	2.3	16.2	38.6	22.2
U83-64065	49.1	35	-2.0	2.6	40	2.5	15.9	38.9	21.1
U83-64067	49.7	33	-2.9	2.2	41	2.3	16.7	38.8	21.7
U83-64069	49.8	32	-6.0	1.6	39	2.7	17.9	40.4	21.7
U83-70015	52.2	26	+1.0	2.0	41	2.0	14.7	39.5	21.2
U83-72018	51.0	29	+1.3	1.6	40	2.1	15.3	39.0	21.1
U83-72078	48.9	36	-1.7	2.3	43	2.2	18.2	39.4	21.7
U83-73076	53.1	23	+1.8	1.6	40	1.9	15.8	40.1	20.7
U83-74040	47.0	37	-4.0	1.8	44	2.3	15.3	39.8	21.2

* 129 Days after planting.

PRELIMINARY TEST IIIA, 1986

YIELD (bu/a)

Strain	Mean 7 Tests	Stuart IA	Urbana IL	Lafayette IN
Century 84 (II)	54.3	54.6	50.1	49.4
Harper (III)	55.8	53.3	54.0	55.5
Chamberlain	58.7	54.8	56.1	61.5
Morgan (IV)	54.5	52.4	32.2	59.1
A85-391035	57.9	53.6	56.6	59.2
A85-392010	55.7	51.9	48.9	57.2
A85-392011	52.7	53.9	48.7	60.3
A85-392015	52.9	48.9	44.1	50.4
A85-392026	59.8	61.0	47.3	62.5
A85-392028	53.4	60.1	46.4	56.6
A85-392035	56.6	51.7	48.2	56.9
A85-393001	60.7	60.0	58.1	59.2
A85-393025	57.4	53.0	54.1	58.8
A85-393027	56.1	55.6	47.7	56.0
A85-393036	56.7	49.6	50.9	61.6
A85-394003	56.2	54.6	49.1	53.0
A85-394009	58.9	54.3	64.5	61.8
A85-394010	56.3	55.2	51.5	59.8
A85-394022	54.9	47.0	48.4	56.4
LN82-589	52.1	51.9	52.6	55.5
LN82-699	50.6	51.0	46.4	58.7
LN82-8865	57.2	50.1	45.3	58.7
LN83-1709	58.4	57.2	51.6	55.1
LN83-2840	50.8	52.4	41.6	44.2
LN83-5068	54.4	54.0	48.7	52.7
LN83-7006	51.9	52.6	55.3	40.5
LN83-7132	54.7	50.9	46.8	52.6
LN83-7428	54.3	54.9	55.9	55.8
U83-64062	49.6	46.1	50.3	41.9
U83-64065	49.1	44.8	48.2	45.8
U83-64067	49.7	46.1	45.1	41.5
U83-64069	49.8	46.1	44.2	49.7
U83-70015	52.2	49.9	60.1	52.7
U83-72018	51.0	51.3	49.0	49.2
U83-72078	48.9	46.2	49.8	51.5
U83-73076	53.1	49.9	50.6	51.3
U83-74040	47.0	57.8	44.8	53.9
C.V. (%)		6.0	10.1	7.3
L.S.D. (5%)		6.4	10.2	8.0
Row Sp. (In.)		27	30	24
Rows/Plot		4	4	4
Reps		2	2	2

PRELIMINARY TEST IIIA, 1986

YIELD (bu/a)

Strain	Manhattan KS	Mead NE	Hoytville OH	S.Charleston OH
Century 84 (II)	54.2	47.7	65.2	58.8
Harper (III)	60.0	54.1	49.2	64.5
Chamberlain	60.5	56.0	56.9	65.2
Morgan (IV)	68.2	50.1	56.5	63.2
A85-391035	58.6	53.7	61.5	62.2
A85-392010	56.6	59.4	49.1	66.9
A85-392011	56.6	54.8	31.5	63.2
A85-392015	55.7	49.9	59.7	61.5
A85-392026	61.5	54.3	53.4	68.9
A85-392028	53.7	48.5	42.2	66.0
A85-392035	63.9	52.3	56.9	66.3
A85-393001	64.9	53.3	57.7	71.4
A85-393025	60.5	57.9	51.8	65.4
A85-393027	60.5	53.6	55.6	63.7
A85-393036	60.0	54.5	50.6	69.9
A85-394003	64.4	45.7	61.4	65.3
A85-394009	58.6	54.0	57.7	61.4
A85-394010	58.1	53.6	55.7	60.4
A85-394022	59.5	57.4	52.9	62.6
LN82-589	50.3	52.9	39.9	61.5
LN82-699	54.7	47.7	41.3	54.2
LN82-8865	57.6	53.1	71.3	64.4
LN83-1709	60.0	56.3	61.7	66.8
LN83-2840	54.2	50.7	46.8	65.4
LN83-5068	66.8	46.4	55.1	56.8
LN83-7006	54.2	55.7	44.2	60.7
LN83-7132	59.0	50.8	65.3	57.7
LN83-7428	61.5	50.4	35.5	66.0
U83-64062	54.7	46.7	52.5	55.1
U83-64065	52.8	44.2	50.8	57.0
U83-64067	61.0	48.0	49.0	57.3
U83-64069	56.6	48.8	47.2	56.3
U83-70015	52.3	49.1	42.9	58.6
U83-72018	61.0	46.6	38.2	61.7
U83-72078	48.9	46.8	40.0	59.1
U83-73076	58.6	51.6	50.0	59.9
U83-74040	49.9	44.2	24.1	54.3
C.V. (%)	6.5	7.2	14.8	4.8
L.S.D. (5%)	7.7	7.6	14.7	6.0
Row Sp. (In.)	30	30	30	30
Rows/Plot	4	2	4	-
Reps	2	2	2	2

PRELIMINARY TEST IIIA, 1986

YIELD RANK

Strain	Yield Rank	Stuart IA	Urbana IL	Lafayette IN
Century 84 (II)	20	10	16	31
Harper (III)	14	16	9	19
Chamberlain	4	9	5	4
Morgan (IV)	18	19	37	9
A85-391035	6	15	4	7
A85-392010	15	21	20	13
A85-392011	25	14	21	5
A85-392015	24	31	35	29
A85-392026	2	1	27	1
A85-392028	22	2	29	15
A85-392035	10	23	24	14
A85-393001	1	3	3	7
A85-393025	7	17	8	10
A85-393027	13	6	26	17
A85-393036	9	30	13	3
A85-394003	12	10	18	23
A85-394009	3	12	1	2
A85-394010	11	7	12	6
A85-394022	16	32	23	16
LN82-589	27	21	10	19
LN82-699	31	25	29	11
LN82-8865	8	27	31	11
LN83-1709	5	5	11	21
LN83-2840	30	19	36	34
LN83-5068	19	13	21	24
LN83-7006	28	18	7	37
LN83-7132	17	26	28	26
LN83-7428	20	8	6	18
U83-64062	34	34	15	35
U83-64065	35	37	24	33
U83-64067	33	34	32	36
U83-64069	32	34	34	30
U83-70015	26	28	2	24
U83-72018	29	24	19	32
U83-72078	36	33	17	27
U83-73076	23	28	14	28
U83-74040	37	4	33	22

PRELIMINARY TEST IIIA, 1986

YIELD RANK

Strain	Manhattan KS	Mead NE	Hoytville OH	S.Charleston OH
Century 84 (II)	29	30	3	28
Harper (III)	13	10	23	13
Chamberlain	10	5	10	12
Morgan (IV)	1	23	12	16
A85-391035	18	12	5	19
A85-392010	23	1	24	4
A85-392011	23	7	36	16
A85-392015	26	24	7	21
A85-392026	6	9	16	3
A85-392028	32	27	30	7
A85-392035	5	18	10	6
A85-393001	3	15	8	1
A85-393025	10	2	19	9
A85-393027	10	14	14	15
A85-393036	13	8	21	2
A85-394003	4	35	6	11
A85-394009	18	11	8	23
A85-394010	21	13	13	25
A85-394022	16	3	17	18
LN82-589	35	17	33	21
LN82-699	27	29	31	37
LN82-8865	22	16	1	14
LN83-1709	13	4	4	5
LN83-2840	29	21	27	9
LN83-5068	2	34	15	33
LN83-7006	29	6	28	24
LN83-7132	17	20	2	30
LN83-7428	6	22	35	7
U83-64062	27	32	18	35
U83-64065	33	37	20	32
U83-64067	8	28	25	31
U83-64069	23	26	26	34
U83-70015	34	25	29	29
U83-72018	8	33	34	20
U83-72078	37	31	32	27
U83-73076	18	19	22	26
U83-74040	36	36	37	36

MATURITY (Date)

Strain	Mean 7 Tests	Stuart IA	Urbana IL	Lafayette IN
Century 84 (II)	-8.7	-8	-10	-14
Harper (III)	9-20.3	9-22	9-9	9-23
Chamberlain	+2.3	+2	+4	+2
Morgan (IV)	+10.1	+6	+11	+12
A85-391035	-1.9	0	-3	-3
A85-392010	+3.1	+2	+3	+3
A85-392011	-1.3	0	0	-5
A85-392015	-0.3	0	+1	-3
A85-392026	+2.1	0	+2	+3
A85-392028	+0.4	0	-2	+2
A85-392035	+0.4	0	-2	0
A85-393001	+5.1	+4	+6	+7
A85-393025	+2.7	+2	+3	+3
A85-393027	+1.6	+1	+2	+2
A85-393036	+2.6	+2	+3	+4
A85-394003	+2.7	+2	0	+4
A85-394009	-0.1	0	+4	0
A85-394010	+1.3	+2	+3	+3
A85-394022	+0.7	+1	+5	-2
LN82-589	+2.0	+2	+3	+3
LN82-699	+1.3	+2	-1	+3
LN82-8865	+2.4	+2	-1	+4
LN83-1709	+1.3	+1	-2	+3
LN83-2840	+1.4	0	-1	+4
LN83-5068	+1.6	+2	-3	+3
LN83-7006	-3.6	-2	-4	-9
LN83-7132	+2.6	+1	+4	+1
LN83-7428	+1.7	+2	-1	+1
U83-64062	-4.1	-2	-5	-10
U83-64065	-2.0	0	-3	-5
U83-64067	-2.9	-2	-4	-7
U83-64069	-6.0	-5	-9	-11
U83-70015	+1.0	+2	+2	+2
U83-72018	+1.3	+1	+1	-2
U83-72078	-1.7	-1	-1	-3
U83-73076	+1.8	+2	+2	+2
U83-74040	-4.0	-2	-7	-9
Date Planted	5-14	5-6	5-5	5-23
Days to Mature	129	139	127	123

PRELIMINARY TEST IIIA, 1986

MATURITY (Date)

Strain	Manhattan KS	Mead NE	Hoytville OH	S.Charleston OH
Century 84 (II)	-7	-8	-7	-7
Harper (III)	9-23	9-28	9-23	9-14
Chamberlain	+2	+2	+1	+3
Morgan (IV)	+13	+11	+6	+12
A85-391035	-1	-1	-2	-3
A85-392010	+2	+4	0	+8
A85-392011	0	-4	-3	+3
A85-392015	0	-2	-2	+4
A85-392026	+2	+1	+1	+6
A85-392028	-1	0	-2	+4
A85-392035	+2	+1	-1	+3
A85-393001	+3	+5	+2	+9
A85-393025	+3	0	+1	+7
A85-393027	+2	-1	-1	+6
A85-393036	+2	+1	+1	+5
A85-394003	+3	+4	+2	+4
A85-394009	-1	-2	-3	+1
A85-394010	0	-2	0	+3
A85-394022	+2	-2	-1	0
LN82-589	+1	+1	0	+4
LN82-699	+1	+1	0	+3
LN82-8865	+1	+7	+1	+3
LN83-1709	+2	+1	+1	+3
LN83-2840	+2	+1	-1	+5
LN83-5068	+4	+1	0	+4
LN83-7006	-3	-2	-2	-3
LN83-7132	+3	+4	+1	+4
LN83-7428	+1	+3	+2	+4
U83-64062	-1	-5	-1	-5
U83-64065	-1	-4	-1	0
U83-64067	-2	-3	-2	0
U83-64069	-2	-6	-4	-5
U83-70015	+1	-2	-1	+3
U83-72018	+2	+2	+1	+4
U83-72078	-1	-2	-3	-1
U83-73076	+1	+1	0	+4
U83-74040	-2	-5	0	-3
Date Planted	6 2	5-21	5-7	5 5
Days to Mature	113	130	139	132

LODGING (Score)

Strain	Mean 7 Tests	Stuart IA	Urbana IL	Lafayette IN
Century 84 (II)	1.3	1.4	1.0	1.3
Harper (III)	1.4	1.4	1.5	2.3
Chamberlain	2.3	2.4	2.0	2.5
Morgan (IV)	2.5	2.7	2.0	3.3
A85-391035	1.7	1.4	1.5	2.5
A85-392010	2.1	1.9	1.5	2.3
A85-392011	1.5	2.1	1.0	1.5
A85-392015	1.9	1.8	1.5	1.8
A85-392026	1.4	2.5	1.0	1.3
A85-392028	1.9	2.3	1.5	2.5
A85-392035	1.7	1.7	1.0	2.5
A85-393001	2.3	2.7	2.0	3.3
A85-393025	2.0	2.2	1.5	2.8
A85-393027	1.8	2.2	1.5	2.0
A85-393036	1.6	1.5	1.0	2.3
A85-394003	2.8	2.5	2.0	3.5
A85-394009	2.2	2.0	2.0	2.5
A85-394010	1.9	2.0	2.0	2.3
A85-394022	1.6	1.6	1.0	2.0
LN82-589	1.5	1.7	1.0	1.8
LN82-699	2.3	2.6	3.0	2.8
LN82-8865	2.3	1.5	2.0	3.5
LN83-1709	1.4	1.3	1.0	2.5
LN83-2840	1.3	1.4	1.0	1.3
LN83-5068	2.7	2.6	3.5	3.5
LN83-7006	2.4	1.9	3.0	2.8
LN83-7132	2.4	2.4	2.0	2.8
LN83-7428	2.2	2.6	2.5	2.5
U83-64062	1.9	1.5	1.5	2.8
U83-64065	2.6	2.1	2.5	3.8
U83-64067	2.2	1.5	1.5	3.3
U83-64069	1.6	1.6	2.0	2.0
U83-70015	2.0	1.6	1.5	2.8
U83-72018	1.6	2.1	2.0	2.0
U83-72078	2.3	2.1	1.5	3.3
U83-73076	1.6	1.9	2.0	2.0
U83-74040	1.8	2.1	2.5	2.0

LODGING (Score)

Strain	Manhattan KS	Mead NE	Hoytville OH	S.Charleston OH
Century 84 (II)	1.0	1.3	1.6	1.8
Harper (III)	1.0	1.0	1.6	1.0
Chamberlain	2.5	1.8	2.2	2.5
Morgan (IV)	2.5	2.5	1.7	2.5
A85-391035	1.5	1.0	2.1	1.8
A85-392010	3.0	1.3	1.9	2.5
A85-392011	1.5	1.0	1.5	2.0
A85-392015	2.0	1.0	2.5	2.5
A85-392026	1.0	1.0	1.4	1.8
A85-392028	2.0	1.0	1.5	2.3
A85-392035	1.5	1.0	1.8	2.5
A85-393001	2.0	2.3	1.1	3.0
A85-393025	1.5	1.0	1.8	3.0
A85-393027	2.0	1.0	1.5	2.3
A85-393036	1.5	1.0	2.1	1.8
A85-394003	2.5	2.3	3.1	3.5
A85-394009	2.5	1.5	2.3	2.3
A85-394010	2.0	1.5	1.5	2.0
A85-394022	2.0	1.0	1.8	1.8
LN82-589	1.0	1.0	2.3	1.5
LN82-699	1.5	1.5	2.4	2.5
LN82-8865	2.5	1.5	2.6	2.8
LN83-1709	1.0	1.0	1.4	1.3
LN83-2840	1.5	1.0	1.6	1.3
LN83-5068	2.5	2.0	2.1	2.8
LN83-7006	2.0	2.0	2.3	2.8
LN83-7132	2.0	2.3	2.6	2.8
LN83-7428	2.5	1.5	1.5	2.0
U83-64062	2.5	1.0	1.7	2.5
U83-64065	2.0	1.5	2.7	3.8
U83-64067	1.5	2.0	2.9	2.8
U83-64069	1.5	1.0	1.6	1.8
U83-70015	2.0	1.5	2.5	2.3
U83-72018	1.5	1.0	1.2	1.5
U83-72078	2.5	2.0	2.0	3.0
U83-73076	1.0	1.3	1.8	1.3
U83-74040	2.0	1.0	1.7	1.8

PLANT HEIGHT (Inches)

Strain	Mean 7 Tests	Stuart IA	Urbana IL	Lafayette IN
Century 84 (II)	38	38	43	40
Harper (III)	37	40	43	39
Chamberlain	43	46	45	45
Morgan (IV)	45	48	51	48
A85-391035	39	39	45	39
A85-392010	41	42	46	41
A85-392011	37	43	39	40
A85-392015	41	43	48	43
A85-392026	39	40	44	38
A85-392028	40	42	46	42
A85-392035	41	44	47	42
A85-393001	44	44	51	47
A85-393025	39	40	44	38
A85-393027	42	44	48	42
A85-393036	37	40	41	38
A85-394003	41	44	44	43
A85-394009	42	42	47	43
A85-394010	43	46	50	42
A85-394022	40	42	47	41
LN82-589	43	44	51	45
LN82-699	43	45	47	46
LN82-8865	37	40	41	37
LN83-1709	39	42	42	41
LN83-2840	29	28	29	31
LN83-5068	39	42	44	41
LN83-7006	42	40	46	44
LN83-7132	45	45	49	46
LN83-7428	40	42	47	41
U83-64062	38	40	45	39
U83-64065	40	43	46	39
U83-64067	41	43	47	40
U83-64069	39	40	45	39
U83-70015	41	44	51	42
U83-72018	40	42	50	42
U83-72078	43	47	50	43
U83-73076	40	41	48	42
U83-74040	44	48	52	48

PRELIMINARY TEST IIIA, 1986

PLANT HEIGHT (Inches)

Strain	Manhattan KS	Mead NE	Hoytville OH	S.Charleston OH
Century 84 (II)	34	37	34	39
Harper (III)	41	34	28	37
Chamberlain	46	43	37	41
Morgan (IV)	50	44	33	41
A85-391035	43	37	34	35
A85-392010	44	40	34	40
A85-392011	38	35	29	37
A85-392015	44	36	36	38
A85-392026	44	38	30	39
A85-392028	44	35	31	38
A85-392035	44	41	33	36
A85-393001	49	42	34	42
A85-393025	43	36	33	36
A85-393027	45	39	35	40
A85-393036	39	35	30	38
A85-394003	43	41	35	38
A85-394009	43	42	35	39
A85-394010	45	43	33	39
A85-394022	46	36	32	34
LN82-589	45	41	35	41
LN82-699	48	43	31	38
LN82-8865	39	35	35	33
LN83-1709	40	39	32	36
LN83-2840	24	37	26	29
LN83-5068	42	37	34	35
LN83-7006	42	44	37	38
LN83-7132	46	47	41	40
LN83-7428	41	41	28	38
U83-64062	42	36	30	35
U83-64065	41	39	35	38
U83-64067	41	41	35	41
U83-64069	40	35	32	39
U83-70015	45	39	25	39
U83-72018	44	40	27	38
U83-72078	47	42	30	42
U83-73076	43	37	34	36
U83-74040	45	45	25	43

SEED QUALITY (Score)

Strain	Mean 6 Tests	Stuart IA	Urbana IL	Lafayette IN
Century 84 (II)	2.4	2.0	4.0	1.5
Harper (III)	1.9	3.0	2.0	1.0
Chamberlain	2.3	3.0	3.2	1.0
Morgan (IV)	2.0	4.0	2.5	1.0
A85-391035	2.0	3.0	1.9	1.0
A85-392010	1.9	3.0	2.8	1.0
A85-392011	2.1	4.0	2.3	1.0
A85-392015	2.1	3.0	2.3	1.0
A85-392026	2.0	3.0	2.5	1.0
A85-392028	2.5	4.0	2.8	1.5
A85-392035	1.9	3.0	2.3	1.5
A85-393001	1.8	2.0	1.9	1.5
A85-393025	1.9	3.0	1.9	1.5
A85-393027	2.3	5.0	2.7	1.0
A85-393036	2.0	3.0	2.0	2.0
A85-394003	2.6	4.0	2.9	1.5
A85-394009	2.2	4.0	3.0	1.0
A85-394010	1.9	2.0	2.7	1.5
A85-394022	2.0	3.0	2.7	1.5
LN82-589	2.1	2.0	2.5	2.0
LN82-699	2.1	2.0	3.0	2.0
LN82-8865	2.0	2.0	3.3	1.5
LN83-1709	2.5	4.0	3.0	1.5
LN83-2840	1.9	2.0	2.4	1.5
LN83-5068	2.3	2.0	4.0	2.0
LN83-7006	2.2	4.0	2.8	1.0
LN83-7132	1.7	3.0	1.8	1.0
LN83-7428	2.8	4.0	3.5	1.5
U83-64062	2.3	2.0	3.8	1.5
U83-64065	2.5	3.0	3.8	2.0
U83-64067	2.3	3.0	3.0	1.5
U83-64069	2.7	4.0	3.8	1.5
U83-70015	2.0	3.0	2.8	1.0
U83-72018	2.1	3.0	2.6	1.0
U83-72078	2.2	3.0	2.8	1.0
U83-73076	1.9	3.0	2.3	1.5
U83-74040	2.3	2.0	3.8	1.0

PRELIMINARY TEST IIIA, 1986

SEED QUALITY (Score)

Strain	Manhattan KS	Mead NE	Hoytville OH	S.Charleston OH
Century 84 (II)	3.0	2.5	1.3	
Harper (III)	2.0	2.3	1.3	
Chamberlain	3.0	2.0	1.5	
Morgan (IV)	2.0	1.0	1.3	
A85-391035	3.0	1.8	1.4	
A85-392010	2.0	1.5	1.3	
A85-392011	2.0	2.0	1.5	
A85-392015	3.0	1.8	1.3	
A85-392026	2.0	2.3	1.3	
A85-392028	3.0	2.0	1.5	
A85-392035	2.0	1.3	1.3	
A85-393001	2.0	1.8	1.3	
A85-393025	2.0	1.5	1.2	
A85-393027	2.0	1.8	1.4	
A85-393036	2.0	1.8	1.3	
A85-394003	3.0	2.3	1.6	
A85-394009	2.0	2.0	1.3	
A85-394010	2.0	2.0	1.4	
A85-394022	2.0	1.3	1.4	
LN82-589	3.0	1.8	1.3	
LN82-699	2.0	2.0	1.8	
LN82-8865	2.0	2.0	1.4	
LN83-1709	3.0	2.0	1.3	
LN83-2840	2.0	2.0	1.3	
LN83-5068	2.0	2.0	2.0	
LN83-7006	2.0	1.5	1.8	
LN83-7132	2.0	1.3	1.2	
LN83-7428	3.0	2.8	1.7	
U83-64062	3.0	2.0	1.5	
U83-64065	3.0	2.0	1.3	
U83-64067	2.0	3.0	1.5	
U83-64069	3.0	2.3	1.4	
U83-70015	2.0	1.8	1.2	
U83-72018	2.0	2.3	1.7	
U83-72078	3.0	2.0	1.3	
U83-73076	2.0	1.3	1.2	
U83-74040	3.0	2.3	1.8	

PRELIMINARY TEST IIIA, 1986

SEED SIZE (g/100)

Strain	Mean 6 Tests	Stuart IA	Urbana IL	Lafayette IN
Century 84 (II)	17.2	16.5	16.1	17.7
Harper (III)	19.7	18.9	17.9	19.5
Chamberlain	18.4	17.5	17.9	18.9
Morgan (IV)	17.7	15.7	16.6	18.9
A85-391035	16.4	15.5	15.1	17.2
A85-392010	17.7	16.5	16.3	17.9
A85-392011	15.5	15.1	13.8	16.4
A85-392015	15.5	14.3	15.4	15.2
A85-392026	16.1	16.2	13.4	17.4
A85-392028	15.3	15.2	13.3	16.4
A85-392035	14.0	12.9	12.0	14.8
A85-393001	15.5	14.9	14.8	16.0
A85-393025	15.9	15.5	13.4	17.6
A85-393027	14.2	13.5	12.7	14.4
A85-393036	15.0	14.3	13.3	15.1
A85-394003	14.8	14.4	13.4	14.7
A85-394009	17.2	15.9	17.7	17.1
A85-394010	17.5	17.1	17.3	17.3
A85-394022	17.7	17.0	16.5	17.4
LN82-589	17.1	16.4	16.5	17.9
LN82-699	16.8	16.6	15.2	17.7
LN82-8865	16.8	16.0	15.1	15.3
LN83-1709	15.6	16.4	13.8	15.4
LN83-2840	14.2	13.5	13.5	14.4
LN83-5068	17.4	16.9	15.5	16.4
LN83-7006	17.5	16.8	17.8	16.8
LN83-7132	16.9	16.5	15.0	16.3
LN83-7428	19.4	19.5	17.2	20.1
U83-64062	16.2	14.5	16.1	14.9
U83-64065	15.9	15.3	15.9	15.0
U83-64067	16.7	15.2	16.0	14.8
U83-64069	17.9	17.2	18.6	17.1
U83-70015	14.7	15.0	15.1	14.9
U83-72018	15.3	14.8	15.2	15.1
U83-72078	18.2	18.0	17.6	18.4
U83-73076	15.8	14.6	15.0	15.5
U83-74040	15.3	15.2	14.7	15.5

PRELIMINARY TEST IIIA, 1986

SEED SIZE (g/100)

Strain	Manhattan KS	Mead NE	Hoytville OH	S.Charleston OH
Century 84 (II)	20.4	16.6	16.5	
Harper (III)	23.9	20.7	17.1	
Chamberlain	20.2	19.2	16.4	
Morgan (IV)	20.9	19.5	14.7	
A85-391035	18.7	17.2	14.8	
A85-392010	21.3	17.9	16.1	
A85-392011	17.7	16.9	13.1	
A85-392015	16.4	17.4	14.2	
A85-392026	18.6	16.5	14.2	
A85-392028	18.1	15.9	13.0	
A85-392035	16.5	15.1	12.8	
A85-393001	17.5	15.9	13.6	
A85-393025	17.8	18.0	13.3	
A85-393027	16.2	15.2	13.3	
A85-393036	17.2	16.2	13.8	
A85-394003	18.0	15.5	13.0	
A85-394009	18.9	18.4	15.1	
A85-394010	21.6	18.1	13.6	
A85-394022	20.3	19.6	15.2	
LN82-589	18.0	18.1	15.4	
LN82-699	18.4	18.0	15.0	
LN82-8865	19.3	19.3	15.5	
LN83-1709	16.4	17.0	14.7	
LN83-2840	15.4	15.4	12.7	
LN83-5068	21.4	18.5	15.6	
LN83-7006	19.9	17.6	16.0	
LN83-7132	20.3	17.7	15.8	
LN83-7428	21.3	20.6	17.6	
U83-64062	20.2	16.7	14.6	
U83-64065	19.8	15.8	13.5	
U83-64067	21.7	17.7	14.6	
U83-64069	21.4	18.5	14.8	
U83-70015	14.6	15.8	12.6	
U83-72018	16.9	16.0	13.5	
U83-72078	20.0	19.0	16.2	
U83-73076	17.8	17.8	14.3	
U83-74040	16.7	16.6	12.8	

PRELIMINARY TEST IIIA, 1986

PROTEIN (%)

Strain	Mean 4 Tests	Urbana, IL	Lafayette, IN	Manhattan, KS	Hoytville, OH
Century 84 (II)	42.4	43.6	41.2	43.5	41.3
Harper (III)	39.3	39.6	40.0	39.9	37.5
Chamberlain (III)	39.3	40.2	38.9	40.1	37.9
Morgan (IV)	41.4	42.6	41.2	43.6	38.0
A85-391035	38.9	39.3	39.0	39.0	38.3
A85-392010	38.7	38.6	38.5	40.5	37.1
A85-392011	38.3	39.3	38.3	39.5	36.0
A85-392015	40.0	39.3	39.7	41.1	40.0
A85-392026	38.9	39.1	38.6	39.3	38.5
A85-392028	40.5	40.9	41.0	40.6	39.4
A85-392035	38.5	38.6	38.5	38.5	38.5
A85-393001	38.9	38.8	39.9	39.8	37.1
A85-393025	37.1	37.8	37.6	37.6	35.4
A85-393027	39.0	41.2	39.4	39.2	36.3
A85-393036	40.2	40.3	40.2	40.7	39.5
A85-394003	38.9	39.8	39.2	39.0	37.6
A85-394009	40.6	40.8	40.9	41.3	39.5
A85-394010	40.5	41.2	40.6	41.6	38.5
A85-394022	41.2	42.4	41.2	41.1	40.1
LN82-589	39.3	39.3	39.0	39.5	39.2
LN82-699	39.8	39.3	38.6	40.6	40.6
LN82-8865	41.9	40.0	39.5	39.3	38.9
LN83-1709	38.0	38.9	37.2	37.9	37.9
LN83-2840	40.9	42.8	41.0	39.7	39.9
LN83-5068	39.2	40.3	38.7	40.0	37.9
LN83-7006	39.4	40.5	38.7	39.8	38.5
LN83-7132	38.6	37.3	39.0	38.4	39.6
LN83-7428	38.2	40.1	36.3	39.4	37.0
U83-64062	38.6	40.0	39.2	38.2	37.1
U83-64065	38.9	40.9	38.4	39.2	37.0
U83-64067	38.8	39.6	38.5	39.5	37.6
U83-64069	40.4	41.9	37.9	41.5	40.1
U83-70015	39.5	39.3	39.4	39.6	39.5
U83-72018	39.0	38.8	39.0	39.8	38.3
U83-72078	39.4	40.2	39.0	39.9	38.6
U83-73076	40.1	40.2	39.5	40.3	40.3
U83-74040	39.8	40.3	41.1	39.4	38.2

PRELIMINARY TEST IIIA, 1986

OIL (%)

Strain	Mean 4 Tests	Urbana, IL	Lafayette, IN	Manhattan, KS	Hoytville, OH
Century 84 (II)	20.8	22.6	20.5	19.6	20.3
Harper (III)	21.2	23.2	20.2	21.0	20.4
Chamberlain (III)	21.0	21.9	21.0	20.5	20.4
Morgan (IV)	20.5	21.4	20.6	19.6	20.4
A85-391035	21.7	22.7	21.1	22.0	20.8
A85-392010	21.9	23.2	21.6	21.4	21.3
A85-392011	20.5	21.2	20.2	19.9	20.6
A85-392015	20.9	21.2	21.6	20.2	20.6
A85-392026	21.3	22.8	20.7	21.4	20.4
A85-392028	20.7	22.1	20.7	20.3	19.8
A85-392035	21.3	22.7	20.8	21.2	20.4
A85-393001	21.3	22.5	20.9	21.1	20.6
A85-393025	22.2	23.5	21.8	22.2	21.4
A85-393027	21.6	22.5	20.7	21.4	21.9
A85-393036	21.3	22.6	20.8	20.8	20.8
A85-394003	21.1	21.9	21.0	20.6	20.9
A85-394009	20.8	22.2	19.8	21.0	20.1
A85-394010	20.7	21.7	20.8	20.1	20.2
A85-394022	20.7	21.5	20.3	20.8	20.1
LN82-589	20.9	22.4	20.4	20.0	20.6
LN82-699	20.0	21.5	20.1	19.1	19.2
LN82-8865	20.2	21.3	20.0	20.2	19.4
LN83-1709	22.3	23.6	22.1	22.3	21.0
LN83-2840	20.2	21.1	19.9	20.1	19.8
LN83-5068	21.9	23.5	21.4	20.9	21.8
LN83-7006	22.2	24.4	21.9	21.4	21.2
LN83-7132	21.6	23.4	21.2	21.9	20.0
LN83-7428	21.8	22.0	22.9	20.9	21.5
U83-64062	22.2	24.5	20.6	22.1	21.4
U83-64065	21.1	22.5	21.6	20.1	20.3
U83-64067	21.7	23.6	20.6	21.3	21.2
U83-64069	21.7	24.5	21.8	20.5	20.0
U83-70015	21.2	22.4	21.5	20.7	20.3
U83-72018	21.1	22.2	21.3	20.5	20.5
U83-72078	21.7	23.5	20.9	21.3	21.2
U83-73076	20.7	21.4	21.7	20.4	19.4
U83-74040	21.2	23.3	19.7	20.8	21.1

Preliminary Test IIIB, 1986

Strain	Parentage	Generation Composited
Century 84 (II)	Century[5] X Williams 82	BC4 F4
Harper (III)	Unknown	F4
Chamberlain	A76-304020 X Land O'Lakes Max	F4
Morgan (IV)	Union X Miles	F5
C1693	L73-4673 X U37219	F5
C1697	Hardin X Lawrence	F6
C1698	L73-4673 X Pella	F6
C1699	L73-4673 X Pella	F6
HM8534	HW79116 X HW79022	F5
L83-3261	Will X L74-4611	F6
L83-7083	L78-4094 X L78-4245	F5
L83-7421	L73-4673 X L78-4094	F5
L83-7573	L73-4673 X L78-4094	F5
Hobbit	Williams X Ransom	F5
C1694	Hobbit X Amsoy 71 dt	F6
C1695	Hobbit X Amsoy 71 dt	F6
C1700	Amsoy 71 dt X HC76-4030	F6
C1701	Amsoy 71 dt X HC76-4030	F6
C1702	Amsoy 71 dt X HC76-4030	F6
HC82-488	Essex X L74D-619	F5
HC82-3222	HW74-678 X Hobbit	F5
HC82-3447	L74D-634 X Hobbit	F5
HC82-3452	L74D-634 X Hobbit	F5
HC82-4427	Essex X Hobbit	F5
HC82-5044	HW75-5605 X Hobbit	F5
HC82-5615	HW75-5605 X Sprite	F5
HC82-5950	Sprite X L76-0022	F5
HC83-2408	Sprite X Williams 82	F5
HC83-2512	Hobbit X Williams 82	F5
HC83-2546	Hobbit X Williams 82	F5
HC83-3834	HC74-3400 X Williams 82	F5
HC83-4320	Essex X Sprite	F5
HC83-4507	L74D-634 X Hobbit	F5
HC83-4532	L74D-634 X Hobbit	F5
L83-3861	L78-8694 X L78L-499	F6
L83-3968	L78-8694 X L78-9069	F6

PRELIMINARY TEST IIIB, 1986

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code		Chlorosis Score Ames	Shattering Score Manhattan	BSR Plant N %	BSR Stem N %
Century (II)	PTBSYB1	I	2.5	1	100	100
Harper (III)	PTBSYB1	I	3.3	2	100	82.9
Chamberlain (III)	PTBSYB1	I	2.3	1	100	33.6
Morgan (IV)	WTTDYB1	I	3.0	2	100	90.6
C1693	PTTDYY	I	3.2	2	100	95.4
C1697	PGBDYIb	I	2.8	1	90	72.3
C1698	PGTDYIb	I	3.8	1	100	92.3
C1699	PTTDYY	I	3.8	1	100	90.7
HM8534	PGBDYBf	I	3.7	1	100	96.5
L83-3261	WTTDYB1	SD	4.0	1	100	91.3
L83-7083	P+WRBDYB1	I	3.2	1	80	18.6
L83-7421	PTBDYB1	I	3.3	2	100	85.0
L83-7573	PGTDYY	I	4.2	-	100	50.3
Hobbit	WTTSYB1	D	3.0	-	100	88.9
C1694	PGTDYBr	D	3.2	1	100	94.7
C1695	PTBDYBr	D	3.0	1	100	86.5
C1700	PGBSYBf+Ib	D	2.5	1	100	94.7
C1701	PGTDYY	D	2.2	1	100	98.1
C1702	PTTDYBr	D	3.5	1	100	91.7
HC82-488	P+WTTDYB1	D	3.0	1	100	98.3
HC82-3222	PTTDYBr	D	3.2	1	100	100
HC82-3447	WTTSYB1	D	3.2	1	100	100
HC82-3452	WTTDYB1	D	3.2	1	100	100
HC82-4427	PTTDYB1	D	2.8	1	100	100
HC82-5044	WTTDYB1	D	3.0	1	100	91.5
HC 82-5615	WTTDYB1	D	3.7	1	100	100
HC 82-5950	WTTSYB1	D	3.5	1	100	100
HC83-2408	WTTSYB1	D	3.3	1	100	80
HC83-2512	WTTDYB1	D	2.8	1	100	85.3
HC83-2546	WTTSYB1	D	3.2	1	100	98.3
HC83-3834	WTTSYB1	D	3.2	-	100	100
HC83-4320	WTTDYB1	D	3.0	1	100	98
HC83-4507	WTTSYB1	D	3.2	1	100	100
HC83-4532	WTTDYB1	D	3.3	1	100	96.6
L83-3861	PTTDYB1	D	3.0	1	100	90.0
L83-3968	PTTDYB1	D	3.0	1	100	84.5

PRELIMINARY TEST IIIB, 1986

DISEASE DATA

Strain	PR	PS	PSB	SMV
	Vickery	Lafayette		
	Tolerance Score	a %	a %	a Score
Century (II)	3.0	31	40	5E
Harper (III)	3.3	14	32	5E
LN80-8478	2.7	12	40	5E
MD79-5043	3.2	9	36	5E
C1693	3.9	14	46	5E
C1697	3.3	62	-	4E
C1698	3.1	13	-	5E
C1699	2.8	18	34	5E
HM8534	2.7	7	18	5E
L83-3261	3.8	4	34	5E
L83-7083	3.4	27	34	5E
L83-7421	3.6	27	30	5E
L83-7573	3.3	48	20	5M
Hobbit	3.3	8	38	1
C1694	3.2	10	18	1
C1695	3.4	18	18	5E
C1700	4.2	16	12	5E
C1701	3.8	18	10	1
C1702	3.8	27	20	3E
HC82-488	3.5	12	20	1
HC82-3222	3.4	2	52	3M?
HC82-3447	3.2	22	54	1?
HC82-3452	3.2	9	48	1
HC82-4427	3.4	8	28	2M?
HC82-5044	3.3	8	14	1?
HC82-5615	3.2	10	56	1?
HC82-5950	3.2	17	20	1
HC83-2408	3.1	10	40	4M
HC83-2512	3.3	8	28	5E
HC83-2546	3.1	12	16	1?
HC83-3834	3.3	5	36	1?
HC83-4320	3.3	5	42	1
HC83-4507	2.8	18	20	1
HC83-4532	3.3	18	38	2M
L83-3861	3.4	7	20	3M
L83-3968	3.0	6	20	1

PRELIMINARY TEST IIIB, 1986
Regional Summary

Strain No. of Tests	Yield 7 bu/a	Rank 7 No.	Maturity 7 Date	Lodging 7 Score	Plant Height 7 In	Seed Quality 6 Score	Seed Size 6 g/100	Composition Protein %	 Oil %
Century 84 (II)	52.3	20	-8.6	1.4	36	2.5	17.2	41.7	20.8
Harper (III)	55.4	8	9-20.4*	1.4	38	2.0	19.6	40.1	21.4
Chamberlain	57.2	1	+2.9	2.2	41	2.1	18.2	39.8	21.1
Morgan (IV)	52.1	21	+11.1	2.5	46	2.1	17.3	41.0	20.3
C1693	44.8	35	-5.0	1.4	39	2.4	16.0	39.6	21.2
C1697	53.2	17	-4.1	1.7	38	2.5	18.7	39.6	22.2
C1698	51.3	26	+1.6	2.1	43	2.5	17.1	39.0	21.5
C1699	51.2	28	+0.1	1.7	42	2.4	19.9	40.9	20.9
HM8534	49.7	32	-2.4	3.0	42	2.4	16.7	40.2	20.5
L83-3261	51.6	22	-1.6	1.4	32	1.9	17.9	39.9	21.3
L83-7083	50.0	30	+4.4	1.7	43	1.6	15.5	39.1	21.3
L83-7421	51.5	24	+4.9	1.6	40	2.1	15.8	39.2	21.0
L83-7573	56.5	4	+3.0	1.9	40	2.1	15.7	39.5	20.2
Hobbit	54.8	12	0.0	1.1	23	1.8	16.2	38.1	22.7
C1694	49.6	31	-1.6	1.1	28	2.0	15.7	40.0	21.4
C1695	55.8	6	+5.0	1.1	27	2.0	16.0	38.2	21.6
C1700	54.7	13	+5.3	1.1	30	2.2	14.7	40.9	20.6
C1701	44.0	36	+3.1	1.3	30	1.9	14.0	40.6	20.2
C1702	53.7	16	+4.3	1.5	33	1.2	15.5	40.5	20.6
HC82-488	51.5	24	+2.9	1.1	22	1.7	14.8	41.4	21.3
HC82-3222	51.0	29	-3.6	1.2	29	2.3	16.7	39.1	22.4
HC82-3447	53.2	17	+0.4	1.1	23	1.8	19.1	39.8	21.6
HC82-3452	55.3	9	-1.1	1.1	21	1.7	19.6	40.1	21.8
HC82-4427	54.3	14	+2.9	1.1	20	2.0	16.0	41.1	20.7
HC82-5044	55.9	5	0.0	1.1	23	1.9	13.6	38.6	21.7
HC82-5615	48.8	33	+2.0	1.1	21	1.5	17.2	38.9	21.8
HC82-5950	53.8	15	+1.7	1.1	23	1.4	19.3	39.0	21.6
HC83-2408	55.8	6	+1.7	1.1	22	1.6	18.5	41.3	21.3
HC83-2512	52.6	19	+0.7	1.1	21	1.6	15.4	39.8	21.4
HC83-2546	55.0	11	+1.3	1.1	23	1.7	16.3	40.0	21.2
HC83-3834	55.2	10	+1.3	1.1	22	1.6	18.3	40.6	21.3
HC83-4320	46.4	34	+5.7	1.1	19	1.7	18.2	40.3	21.0
HC83-4507	56.6	3	+1.4	1.1	23	1.6	17.4	39.2	21.7
HC83-4532	57.0	2	+1.3	1.2	23	1.9	18.4	39.8	21.8
L83-3861	51.6	22	-4.6	2.3	33	2.0	15.6	38.5	22.0
L83-3968	51.3	26	+1.7	2.2	33	2.2	17.1	40.2	20.4

* 133 Days after planting.

PRELIMINARY TEST IIIB, 1986
YIELD (bu/a)

Strain	Mean 7 Tests	Stuart IA	Urbana IL	Lafayette IN
Century 84 (II)	52.3	49.1	50.1	49.4
Harper (III)	55.4	49.8	54.0	55.5
Chamberlain	57.2	55.1	56.1	61.5
Morgan (IV)	52.1	51.2	32.2	59.1
C1693	44.8	47.1	48.1	46.5
C1697	53.2	57.1	59.5	56.9
C1698	51.3	48.9	49.0	56.5
C1699	51.2	50.1	43.0	53.6
HM8534	49.7	55.2	50.3	50.3
L83-3261	51.6	53.2	54.4	49.8
L83-7083	50.0	46.9	45.5	53.8
L83-7421	51.5	46.6	52.8	54.0
L83-7573	56.5	49.9	62.8	60.4
Hobbit	54.8	52.3	56.6	61.2
C1694	49.6	47.1	51.9	50.4
C1695	55.8	55.3	52.9	55.3
C1700	54.7	54.4	54.5	56.7
C1701	44.0	44.3	47.8	51.7
C1702	53.7	49.7	54.5	55.7
HC82-488	51.5	54.8	38.4	55.3
HC82-3222	51.0	50.3	54.1	54.1
HC82-3447	53.2	55.5	58.4	57.9
HC82-3452	55.3	54.1	56.5	59.8
HC82-4427	54.3	56.2	54.2	58.0
HC82-5044	55.9	55.8	47.7	59.7
HC82-5615	48.8	44.6	48.4	50.0
HC82-5950	53.8	51.4	59.3	54.9
HC83-2408	55.8	54.4	54.0	51.4
HC83-2512	52.6	46.9	53.5	52.3
HC83-2546	55.0	52.8	50.9	51.3
HC83-3834	55.2	57.2	59.6	53.6
HC83-4320	46.4	45.1	31.8	44.7
HC83-4507	56.6	57.5	61.2	53.6
HC83-4532	57.0	56.6	58.1	60.6
L83-3861	51.6	58.9	48.6	54.9
L83-3968	51.3	47.1	47.9	53.9
C.V. (%)		5.2	10.1	7.3
L.S.D. (5%)		5.3	10.2	8.0
Row Sp. (In.)		27	30	24
Rows/Plot		4	4	4
Reps		2	2	2

PRELIMINARY TEST IIIB, 1986
YIELD (bu/a)

Strain	Manhattan KS	Mead NE	Hoytville OH	S.Charleston OH
Century 84 (II)	54.2	46.8	60.4	56.0
Harper (III)	66.3	57.0	40.7	64.4
Chamberlain	62.0	53.7	50.9	60.8
Morgan (IV)	54.2	45.9	59.9	61.9
C1693	47.4	42.2	27.7	54.4
C1697	50.3	46.9	46.7	54.7
C1698	51.8	41.1	52.0	59.7
C1699	54.7	46.7	54.3	56.2
HM8534	42.6	43.1	56.8	49.9
L83-3261	59.0	46.9	42.8	54.9
L83-7083	50.3	42.6	51.4	59.8
L83-7421	56.1	45.7	43.7	61.7
L83-7573	58.6	52.2	52.1	59.4
Hobbit	63.9	49.6	39.2	60.7
C1694	46.5	46.6	51.8	52.6
C1695	62.0	49.1	52.2	64.0
C1700	53.7	49.0	50.2	64.6
C1701	40.7	38.4	28.9	56.0
C1702	52.3	46.1	55.4	61.9
HC82-488	49.9	52.4	53.4	56.2
HC82-3222	62.4	44.7	35.2	56.5
HC82-3447	60.5	49.9	32.6	57.3
HC82-3452	63.4	51.6	53.6	47.8
HC82-4427	56.6	49.9	49.4	55.9
HC82-5044	62.9	49.0	57.9	58.2
HC82-5615	58.1	51.0	39.6	50.1
HC82-5950	62.0	52.3	40.2	56.5
HC83-2408	61.0	57.0	61.0	51.9
HC83-2512	51.3	56.3	47.4	60.6
HC83-2546	57.1	52.9	60.2	60.0
HC83-3834	58.6	50.0	48.8	58.4
HC83-4320	44.0	51.0	53.2	54.8
HC83-4507	64.9	50.7	45.0	63.4
HC83-4532	62.0	49.7	50.3	61.7
L83-3861	54.2	49.2	40.5	54.9
L83-3968	59.5	48.3	42.2	60.1
C.V. (%)	5.9	6.4	14.8	4.5
L.S.D. (5%)	6.7	6.3	14.7	5.3
Row Sp. (In.)	30	30	30	30
Rows/Plot	4	2	4	4
Reps	2	2	2	2

PRELIMINARY TEST IIIB, 1986
YIELD RANK

Strain	Yield Rank	Stuart IA	Urbana IL	Lafayette IN
Century 84 (II)	20	26	24	34
Harper (III)	8	24	16	14
Chamberlain	1	11	10	1
Morgan (IV)	21	20	35	7
C1693	35	28	28	35
C1697	17	4	4	10
C1698	26	27	25	12
C1699	28	22	33	24
HM8534	32	10	23	31
L83-3261	22	16	13	33
L83-7083	30	31	32	22
L83-7421	24	33	20	20
L83-7573	4	23	1	4
Hobbit	12	18	8	2
C1694	31	28	21	30
C1695	6	9	19	15
C1700	13	13	11	11
C1701	36	36	30	27
C1702	16	25	11	13
HC82-488	24	12	34	15
HC82-3222	29	21	15	19
HC82-3447	17	8	6	9
HC82-3452	9	15	9	5
HC82-4427	14	6	14	8
HC82-5044	5	7	31	6
HC82-5615	33	35	27	32
HC82-5950	15	19	5	17
HC83-2408	6	13	16	28
HC83-2512	19	31	18	26
HC83-2546	11	17	22	29
HC83-3834	10	3	3	23
HC83-4320	34	34	36	36
HC83-4507	3	2	2	23
HC83-4532	2	5	7	3
L83-3861	22	1	26	17
L83-3968	26	28	29	21

PRELIMINARY TEST IIIB, 1986
YIELD RANK

Strain	Manhattan KS	Mead NE	Hoytville OH	S.Charleston OH
Century 84 (II)	22	25	2	24
Harper (III)	1	1	29	2
Chamberlain	7	4	18	9
Morgan (IV)	22	29	4	5
C1693	32	34	36	31
C1697	29	23	24	30
C1698	27	35	15	15
C1699	21	26	8	22
HM8534	35	32	6	35
L83-3261	14	23	27	27
L83-7083	29	33	17	14
L83-7421	20	30	26	7
L83-7573	15	8	14	16
Hobbit	3	17	33	10
C1694	33	27	16	32
C1695	7	19	13	3
C1700	25	20	20	1
C1701	36	36	35	24
C1702	26	28	7	5
HC82-488	31	6	10	22
HC82-3222	6	31	34	20
HC82-3447	12	14	12	19
HC82-3452	4	9	9	36
HC82-4427	19	14	21	26
HC82-5044	5	20	5	18
HC82-5615	17	10	32	34
HC82-5950	7	7	31	20
HC83-2408	11	1	1	33
HC83-2512	28	3	23	11
HC83-2546	18	5	3	13
HC83-3834	15	13	22	17
HC83-4320	34	10	11	29
HC83-4507	2	12	25	4
HC83-4532	7	16	19	7
L83-3861	22	18	30	27
L83-3968	13	22	28	12

PRELIMINARY TEST IIIB, 1986
MATURITY (Date)

Strain	Mean 7 Tests	Stuart IA	Urbana IL	Lafayette IN
Century 84 (II)	-8.6	-8	-10	-14
Harper (III)	9-20.4	9-22	9-9	9-23
Chamberlain	+2.9	+2	+4	+2
Morgan (IV)	+11.1	+7	+11	+12
C1693	-5.0	-3	-8	-8
C1697	-4.1	-4	-5	-7
C1698	+1.6	0	+2	+3
C1699	+0.1	-1	+2	+1
HM8534	-2.4	0	-4	-5
L83-3261	-1.6	-1	0	-3
L83-7083	+4.4	+3	+7	+5
L83-7421	+4.9	+2	+6	+5
L83-7573	+3.0	+2	+6	+4
Hobbit	0.0	0	-4	+2
C1694	-1.6	0	-5	-3
C1695	+5.0	+4	+4	+6
C1700	+5.3	+4	+5	+6
C1701	+3.1	+2	+3	+5
C1702	+4.3	+3	+4	+4
HC82-488	+2.9	+2	0	+2
HC82-3222	-3.6	-4	-7	-6
HC82-3447	+0.4	+2	-4	+1
HC82-3452	-1.1	0	-5	-2
HC82-4427	+2.9	+2	+4	+1
HC82-5044	0.0	0	-5	+1
HC82-5615	+2.0	+1	+2	+2
HC82-5950	+1.7	+2	-3	+3
HC83-2408	+1.7	+2	-1	+2
HC83-2512	-0.7	0	-2	-1
HC83-2546	+1.3	+2	-3	+2
HC83-3834	+1.3	+2	-1	+3
HC83-4320	+5.7	+2	+6	+6
HC83-4507	+1.4	+2	-2	+2
HC83-4532	+1.3	+2	-4	+2
L83-3861	-4.6	-4	-7	-7
L83-3968	+1.7	+1	+1	+1
Date Planted	5-10	5-6	5-5	5-23
Days to Mature	130	139	127	123

PRELIMINARY TEST IIIB, 1986
MATURITY (Date)

Strain	Manhattan KS	Mead NE	Hoytville OH	S.Charleston OH
Century 84 (II)	-8	-8	-6	-6
Harper (III)	9-25	9-28	9-23	9-13
Chamberlain	+2	+2	+2	+6
Morgan (IV)	+12	+15	+7	+14
C1693	-3	-1	-6	-6
C1697	-3	-3	-4	-4
C1698	+2	+1	-1	+3
C1699	0	+2	-3	0
HM8534	-4	-2	-2	0
L83-3261	-3	-2	-1	-1
L83-7083	+2	+5	+1	+8
L83-7421	+9	+7	0	+5
L83-7573	+1	+3	0	+5
Hobbit	0	+4	-2	0
C1694	-2	0	-1	0
C1695	+2	+6	+3	+10
C1700	+1	+8	+4	+9
C1701	0	+6	+1	+5
C1702	+1	+7	+2	+9
HC82-488	+5	+3	+1	+7
HC82-3222	-4	-1	-1	-2
HC82-3447	+1	+3	0	0
HC82-3452	0	+2	0	-3
HC82-4427	+5	+5	-1	+4
HC82-5044	0	+4	-1	+1
HC82-5615	0	+5	+2	+2
HC82-5950	+2	+5	+2	+1
HC83-2408	+1	+6	+2	0
HC83-2512	0	+1	-1	-2
HC83-2546	+1	+5	+1	+1
HC83-3834	+1	+4	0	0
HC83-4320	+10	+7	+3	+6
HC83-4507	+1	+5	-1	+3
HC83-4532	+1	+7	0	+1
L83-3861	-8	-4	-1	-1
L83-3968	-3	+3	+2	+7
Date Planted	6-2	5-21	5-7	5-5
Days to Mature	115	130	144	131

PRELIMINARY TEST IIIB, 1986
LODGING (Score)

Strain	Mean 7 Tests	Stuart IA	Urbana IL	Lafayette IN
Century 84 (II)	1.4	1.6	1.0	1.3
Harper (III)	1.4	1.4	1.5	2.3
Chamberlain	2.2	2.2	2.0	2.5
Morgan (IV)	2.5	2.7	2.0	3.3
C1693	1.4	1.4	1.0	1.5
C1697	1.7	1.3	1.5	2.3
C1698	2.1	2.1	1.0	2.5
C1699	1.7	1.8	1.5	1.8
HM8534	3.0	2.6	4.0	2.3
L83-3261	1.4	1.5	1.0	1.5
L83-7083	1.7	2.0	2.0	2.0
L83-7421	1.6	1.7	2.0	2.0
L83-7573	1.9	1.7	2.0	2.5
Hobbit	1.1	1.3	1.0	1.0
C1694	1.1	1.3	1.0	1.0
C1695	1.1	1.3	1.0	1.0
C1700	1.1	1.3	1.0	1.0
C1701	1.3	1.3	1.0	1.3
C1702	1.5	1.4	1.0	1.0
HC82-488	1.1	1.3	1.0	1.0
HC82-3222	1.2	1.3	1.0	1.0
HC82-3447	1.1	1.4	1.0	1.0
HC82-3452	1.1	1.3	1.0	1.0
HC82-4427	1.1	1.3	1.0	1.0
HC82-5044	1.1	1.3	1.0	1.0
HC82-5615	1.1	1.3	1.0	1.0
HC82-5950	1.1	1.3	1.0	1.0
HC83-2408	1.1	1.4	1.0	1.0
HC83-2512	1.1	1.3	1.0	1.0
HC83-2546	1.1	1.5	1.0	1.0
HC83-3834	1.1	1.5	1.0	1.0
HC83-4320	1.1	1.4	1.0	1.0
HC83-4507	1.1	1.3	1.0	1.0
HC83-4532	1.2	1.3	1.0	1.0
L83-3861	2.3	1.8	2.0	2.5
L83-3968	2.2	2.1	2.0	2.3

PRELIMINARY TEST IIIB, 1986
LODGING (Score)

Strain	Manhattan KS	Mead NE	Hoytville OH	S.Charleston OH
Century 84 (II)	1.5	1.0	1.8	1.5
Harper (III)	1.0	1.0	1.6	1.2
Chamberlain	2.5	1.3	2.2	2.8
Morgan (IV)	3.0	2.0	2.3	2.5
C1693	1.5	1.0	1.5	1.8
C1697	2.5	1.0	1.5	2.0
C1698	2.5	1.8	2.0	2.5
C1699	2.0	1.0	1.9	2.0
HM8534	3.0	2.0	3.0	4.0
L83-3261	1.5	1.0	1.5	1.5
L83-7083	1.5	1.0	1.7	1.8
L83-7421	1.0	1.0	1.5	2.0
L83-7573	2.0	1.3	1.9	2.2
Hobbit	1.2	1.0	1.1	1.2
C1694	1.0	1.0	1.6	1.0
C1695	1.0	1.0	1.1	1.0
C1700	1.0	1.3	1.3	1.0
C1701	1.5	1.8	1.3	1.2
C1702	1.0	2.0	2.1	1.8
HC82-488	1.0	1.0	1.2	1.0
HC82-3222	1.0	1.0	1.3	1.5
HC82-3447	1.0	1.0	1.3	1.0
HC82-3452	1.0	1.0	1.3	1.0
HC82-4427	1.0	1.0	1.4	1.2
HC82-5044	1.0	1.0	1.3	1.0
HC82-5615	1.5	1.0	1.2	1.0
HC82-5950	1.0	1.0	1.2	1.0
HC83-2408	1.0	1.0	1.3	1.0
HC83-2512	1.0	1.0	1.1	1.0
HC83-2546	1.0	1.0	1.4	1.0
HC83-3834	1.0	1.0	1.1	1.2
HC83-4320	1.5	1.0	1.0	1.0
HC83-4507	1.0	1.0	1.0	1.2
HC83-4532	1.0	1.0	1.5	1.8
L83-3861	2.0	2.0	2.5	3.0
L83-3968	2.0	2.0	2.4	2.3

PRELIMINARY TEST IIIB, 1986
PLANT HEIGHT (Inches)

Strain	Mean 7 Tests	Stuart IA	Urbana IL	Lafayette IN
Century 84 (II)	36	36	43	40
Harper (III)	38	42	43	39
Chamberlain	41	42	45	45
Morgan (IV)	46	50	51	48
C1693	39	41	45	40
C1697	38	38	45	41
C1698	43	47	54	47
C1699	42	46	51	43
HM8534	42	42	43	46
L83-3261	32	30	35	33
L83-7083	43	43	54	46
L83-7421	40	43	48	43
L83-7573	40	42	48	41
Hobbit	23	18	23	24
C1694	28	26	26	30
C1695	27	28	26	30
C1700	30	30	28	34
C1701	30	29	33	34
C1702	33	30	34	38
HC82-488	22	20	20	23
HC82-3222	29	31	28	30
HC82-3447	23	20	22	24
HC82-3452	21	16	20	21
HC82-4427	20	18	19	20
HC82-5044	23	17	26	23
HC82-5615	21	16	20	22
HC82-5950	23	19	23	24
HC83-2408	22	20	20	23
HC83-2512	21	16	17	22
HC83-2546	23	21	21	23
HC83-3834	22	19	21	22
HC83-4320	19	16	17	18
HC83-4507	23	19	22	22
HC83-4532	23	20	21	23
L83-3861	33	34	34	37
L83-3968	33	32	30	39

PRELIMINARY TEST IIIB, 1986
PLANT HEIGHT (Inches)

Strain	Manhattan KS	Mead NE	Hoytville OH	S.Charleston OH
Century 84 (II)	35	34	31	36
Harper (III)	41	33	29	38
Chamberlain	48	40	33	37
Morgan (IV)	51	40	41	38
C1693	43	36	29	38
C1697	41	39	28	33
C1698	45	43	27	38
C1699	46	37	34	40
HM8534	35	45	41	40
L83-3261	33	31	30	33
L83-7083	50	40	30	38
L83-7421	43	38	30	37
L83-7573	40	41	31	37
Hobbit	23	29	21	26
C1694	22	32	29	30
C1695	22	29	26	30
C1700	26	35	28	32
C1701	27	36	22	29
C1702	28	37	30	31
HC82-488	20	26	22	24
HC82-3222	28	31	26	29
HC82-3447	22	30	22	24
HC82-3452	20	27	23	21
HC82-4427	19	24	22	20
HC82-5044	22	27	24	21
HC82-5615	22	25	22	21
HC82-5950	21	28	20	23
HC83-2408	20	25	23	23
HC83-2512	24	26	20	25
HC83-2546	20	27	25	24
HC83-3834	18	25	22	24
HC83-4320	18	25	22	20
HC83-4507	21	27	22	25
HC83-4532	22	28	23	25
L83-3861	26	36	34	31
L83-3968	31	37	31	29

PRELIMINARY TEST IIIB, 1986
SEED QUALITY (Score)

Strain	Mean 6 Tests	Stuart IA	Urbana IL	Lafayette IN
Century 84 (II)	2.5	4.0	4.0	1.5
Harper (III)	2.0	4.0	2.0	1.0
Chamberlain	2.1	4.0	3.2	1.0
Morgan (IV)	2.1	4.0	2.5	1.0
C1693	2.4	3.0	4.8	1.5
C1697	2.5	4.0	3.5	1.5
C1698	2.5	4.0	4.0	2.0
C1699	2.4	3.0	3.3	2.0
HM8534	2.4	4.0	3.5	1.5
L83-3261	1.9	2.0	2.8	1.0
L83-7083	1.6	3.0	1.7	1.5
L83-7421	2.1	4.0	2.0	1.5
L83-7573	2.1	3.0	3.3	2.0
Hobbit	1.8	2.0	2.8	2.0
C1694	2.0	3.0	3.3	1.5
C1695	2.0	4.0	2.0	1.5
C1700	2.2	3.0	2.3	1.5
C1701	1.9	3.0	2.8	1.5
C1702	1.2	1.0	2.0	1.0
HC82-488	1.7	2.0	3.0	1.0
HC82-3222	2.3	3.0	2.8	2.0
HC82-3447	1.8	3.0	2.8	1.5
HC82-3452	1.7	2.0	2.8	1.5
HC82-4427	2.0	3.0	3.3	1.5
HC82-5044	1.9	2.0	3.3	1.0
HC82-5615	1.5	2.0	2.0	1.0
HC82-5950	1.4	1.0	1.9	1.0
HC83-2408	1.6	2.0	3.0	1.0
HC83-2512	1.6	1.0	2.5	1.0
HC83-2546	1.7	2.0	2.5	1.0
HC83-3834	1.6	2.0	2.3	1.0
HC83-4320	1.7	3.0	2.2	1.0
HC83-4507	1.6	2.0	2.5	1.5
HC83-4532	1.9	4.0	2.4	1.0
L83-3861	2.0	1.0	4.0	2.0
L83-3968	2.2	4.0	3.5	1.5

PRELIMINARY TEST IIIB, 1986
SEED QUALITY (Score)

Strain	Manhattan KS	Mead NE	Hoytville OH	S.Charleston OH
Century 84 (II)	2.0	2.0	1.3	
Harper (III)	2.0	1.5	1.3	
Chamberlain	1.0	1.5	1.8	
Morgan (IV)	2.0	1.3	1.8	
C1693	1.0	2.0	2.2	
C1697	2.0	2.5	1.7	
C1698	1.0	2.5	1.6	
C1699	2.0	2.8	1.5	
HM8534	2.0	2.0	1.2	
L83-3261	2.0	2.0	1.4	
L83-7083	1.0	1.3	1.3	
L83-7421	2.0	1.5	1.4	
L83-7573	1.0	2.0	1.5	
Hobbit	1.0	1.5	1.6	
C1694	1.0	2.0	1.3	
C1695	1.0	1.8	1.4	
C1700	3.0	1.5	1.8	
C1701	1.0	1.5	1.5	
C1702	1.0	1.0	1.4	
HC82-488	1.0	1.3	1.7	
HC82-3222	2.0	2.0	1.7	
HC82-3447	1.0	1.3	1.2	
HC82-3452	1.0	1.3	1.5	
HC82-4427	1.0	1.5	1.6	
HC82-5044	2.0	1.8	1.3	
HC82-5615	1.0	1.3	1.4	
HC82-5950	1.0	1.5	1.8	
HC83-2408	1.0	1.3	1.3	
HC83-2512	2.0	1.3	1.7	
HC83-2546	1.0	1.5	1.9	
HC83-3834	1.0	1.8	1.6	
HC83-4320	1.0	1.0	1.7	
HC83-4507	1.0	1.3	1.4	
HC83-4532	1.0	1.5	1.6	
L83-3861	2.0	1.0	1.8	
L83-3968	1.0	1.3	2.1	

PRELIMINARY TEST IIIB, 1986
SEED SIZE (g/100)

Strain	Mean 6 Tests	Stuart IA	Urbana IL	Lafayette IN
Century 84 (II)	17.2	15.9	16.1	17.7
Harper (III)	19.6	18.7	17.9	19.5
Chamberlain	18.2	17.6	17.9	18.9
Morgan (IV)	17.3	16.3	16.6	18.9
C1693	16.0	15.5	14.3	16.3
C1697	18.7	17.6	18.9	17.4
C1698	17.1	16.8	17.9	17.4
C1699	19.9	19.1	20.9	19.3
HM8534	16.7	17.1	17.0	16.9
L83-3261	17.9	17.8	17.3	17.1
L83-7083	15.5	14.5	15.8	15.5
L83-7421	15.8	14.7	14.8	15.6
L83-7573	15.7	14.6	16.0	16.5
Hobbit	16.2	15.0	16.3	16.7
C1694	15.7	14.9	15.8	15.9
C1695	16.0	15.4	15.7	15.1
C1700	14.7	14.2	15.1	15.0
C1701	14.0	13.0	14.8	14.8
C1702	15.5	14.8	14.9	15.8
HC82-488	14.8	14.8	15.9	14.0
HC82-3222	16.7	16.8	16.4	16.0
HC82-3447	19.1	19.4	18.6	18.7
HC82-3452	19.6	19.7	18.7	19.2
HC82-4427	16.0	14.9	17.3	16.6
HC82-5044	13.8	12.8	14.4	14.1
HC82-5615	17.2	15.8	19.9	17.0
HC82-5950	19.3	18.8	20.1	19.6
HC83-2408	18.5	18.2	18.3	18.4
HC83-2512	15.4	15.1	15.9	15.6
HC83-2546	16.3	15.1	16.4	16.9
HC83-3834	18.3	18.4	18.1	18.2
HC83-4320	18.2	17.8	19.4	18.6
HC83-4507	17.4	16.5	17.3	18.1
HC83-4532	18.4	19.0	17.8	18.1
L83-3861	15.6	14.6	15.3	17.1
L83-3968	17.1	16.7	16.0	16.9

PRELIMINARY TEST IIIB, 1986
SEED SIZE (g/100)

Strain	Manhattan KS	Mead NE	Hoytville OH	S.Charleston OH
Century 84 (II)	19.1	17.8	16.5	
Harper (III)	22.1	21.4	17.9	
Chamberlain	20.1	18.8	15.8	
Morgan (IV)	17.7	18.7	15.5	
C1693	17.7	17.4	14.7	
C1697	19.7	20.6	17.9	
C1698	18.0	17.6	14.6	
C1699	21.9	20.7	17.7	
HM8534	14.8	16.9	17.6	
L83-3261	19.1	18.7	17.4	
L83-7083	16.3	17.1	13.7	
L83-7421	16.5	18.2	15.1	
L83-7573	16.5	16.6	13.8	
Hobbit	17.7	17.5	14.2	
C1694	15.8	16.4	15.4	
C1695	17.3	17.7	14.8	
C1700	15.5	14.8	13.8	
C1701	13.5	14.8	13.1	
C1702	16.6	15.3	15.4	
HC82-488	16.1	14.2	13.7	
HC82-3222	18.2	18.0	14.7	
HC82-3447	20.2	20.0	17.5	
HC82-3452	21.1	19.8	18.8	
HC82-4427	16.1	16.2	15.1	
HC82-5044	14.4	14.1	12.8	
HC82-5615	16.2	17.3	17.2	
HC82-5950	19.5	20.8	17.1	
HC83-2408	19.1	18.6	18.4	
HC83-2512	16.1	16.0	13.8	
HC83-2546	16.7	16.9	15.8	
HC83-3834	19.1	18.3	17.8	
HC83-4320	19.2	17.6	16.3	
HC83-4507	18.5	18.7	15.2	
HC83-4532	19.5	19.6	16.6	
L83-3861	17.0	16.0	13.5	
L83-3968	18.9	18.5	15.3	

PRELIMINARY TEST IIIB, 1986

PROTEIN (%)

Strain	Mean 4 Tests	Urbana, IL	Lafayette, IN	Manhattan, KS	Hoytville, OH
Century 84 (II)	41.7	40.5	42.2	42.6	41.4
Harper (III)	40.1	42.4	39.4	39.3	39.2
Chamberlain (III)	39.8	41.0	39.5	39.8	38.9
Morgan (IV)	41.0	41.2	40.8	42.5	39.6
C1693	39.6	39.4	39.1	40.4	39.6
C1697	39.6	40.2	39.6	39.7	39.0
C1698	39.0	38.2	38.3	41.5	37.8
C1699	40.9	40.6	39.9	42.8	40.1
HM8534	40.2	42.3	39.1	40.4	39.1
L83-3261	39.9	40.1	38.8	40.9	39.9
L83-7083	39.1	39.9	39.7	39.4	37.4
L83-7421	39.2	39.1	39.4	39.8	38.6
L83-7573	39.5	40.0	39.6	39.8	38.6
Hobbit	38.1	39.0	38.4	37.6	37.3
C1694	40.0	41.3	40.5	39.5	38.7
C1695	38.2	39.1	38.4	38.1	37.2
C1700	40.9	41.8	41.2	40.3	40.2
C1701	40.6	42.1	42.3	39.4	38.7
C1702	40.5	42.1	40.4	39.6	39.8
HC82-488	41.4	41.2	41.5	40.8	41.9
HC82-3222	39.1	40.5	38.9	39.4	37.6
HC82-3447	39.8	40.1	39.3	40.1	39.6
HC82-3452	40.1	40.6	39.9	39.8	40.0
HC82-4427	41.1	42.2	41.0	41.0	40.2
HC82-5044	38.6	40.7	37.9	38.1	37.8
HC82-5615	38.9	41.1	38.3	38.3	37.8
HC82-5950	39.0	39.2	39.5	38.0	39.4
HC83-2408	41.3	41.9	41.0	40.6	41.8
HC83-2512	39.8	40.5	40.2	39.6	39.0
HC83-2546	40.0	41.7	39.9	39.4	39.1
HC83-3834	40.6	41.3	40.6	40.2	40.1
HC83-4320	40.3	40.2	40.8	39.6	40.4
HC83-4507	39.2	39.5	40.4	38.5	38.4
HC83-4532	39.8	40.2	40.6	39.0	39.5
L83-3861	38.5	40.3	37.0	38.6	38.1
L83-3968	40.2	41.1	40.4	40.1	39.1

PRELIMINARY TEST IIIB, 1986

OIL (%)

Strain	Mean 4 Tests	Urbana, IL	Lafayette, IN	Manhattan, KS	Hyotville, OH
Century 84 (II)	20.8	22.3	20.2	20.2	20.3
Harper (III)	21.4	23.3	20.6	21.3	20.4
Chamberlain (III)	21.1	22.4	20.9	20.4	20.6
Morgan (IV)	20.3	21.7	20.2	19.6	19.8
C1693	21.2	24.0	20.6	20.3	20.0
C1697	22.2	25.2	21.4	21.1	20.9
C1698	21.5	22.9	21.7	20.7	20.5
C1699	20.9	23.0	21.0	19.4	20.0
HM8534	20.5	21.8	20.5	20.0	19.8
L83-3261	21.3	23.0	21.5	20.5	20.2
L83-7083	21.3	22.6	21.3	20.8	20.6
L83-7421	21.0	22.5	20.7	20.0	20.8
L83-7573	20.2	21.4	20.1	19.7	19.6
Hobbit	22.7	24.4	21.7	23.0	21.5
C1694	21.4	21.9	21.1	21.4	21.0
C1695	21.6	21.4	21.6	21.9	21.3
C1700	20.6	21.2	20.5	21.0	19.7
C1701	20.2	20.5	19.5	21.2	19.6
C1702	20.6	20.7	20.7	20.6	20.2
HC82-488	21.3	23.5	20.8	21.1	19.7
HC82-3222	22.4	23.6	22.2	22.3	21.3
HC82-3447	21.6	23.2	21.5	21.8	19.9
HC82-3452	21.8	24.4	21.2	21.5	20.2
HC82-4427	20.7	22.1	20.6	20.4	19.5
HC82-5044	21.7	22.9	21.4	21.6	20.8
HC82-5615	21.8	23.5	21.2	21.5	20.8
HC82-5950	21.6	23.7	21.1	22.2	19.2
HC83-2408	21.3	23.7	20.2	21.2	19.9
HC83-2512	21.4	22.7	20.7	22.0	20.3
HC83-2546	21.2	22.4	20.9	21.4	20.1
HC83-3834	21.3	22.6	20.5	22.1	19.9
HC83-4320	21.0	23.2	20.2	21.0	19.6
HC83-4507	21.7	23.8	20.9	21.7	20.3
HC83-4532	21.8	24.4	20.4	22.3	20.4
L83-3861	22.0	23.8	21.6	22.6	20.0
L83-3968	20.4	20.8	20.0	21.4	19.2

UNIFORM TEST IV, 1986

Strain	Parentage	Previous Testing*	Generation Composited
Douglas	Williams X Calland	8	F5
Pyramid	Franklin X J74-5	3	F4
Ripley	Hodgson X V68-1034	4	F5
Chamberlain (III)	A76-304020 X Land O'Lakes Max	UTIII	F4
Morgan (IV)	Union X Miles	3	F5
C1653	A75-305022 X Century	1	F5
C1657	Hobbit X Century	1	F6
C1665	Nebsoy X A75-305022	PTIVB	F6
HC80-592	HC74-3400 X Sprite	PTIIIB	F5
HC81-799	Ransom X Williams	PTIVB	F5
HC81-817	Ransom X Union	PTIVB	F5
K1106	(Williams X Calland) X Essex	1	F5
K1119	K1022 X Essex	PTIVB	F5
LN82-2366	Sprite X L75-3632	PTIVA	F5
LN82-4433	Williams 82 X Century	PTIVA	F5
LS80-6521	Franklin ~~L73-6356~~ X Pixie	1	F5
Md80-IL2-1	Forrest X (Bonus X Cutler)	2	F7
Md81-0953	A75-305022 X Elf	PTIVA	F5

UNIFORM TEST IV, 1986

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code		Chlorosis Score Ames	Chlorosis Score Lamberton	Shattering Score Manhattan	BSR Ames Plant N %	BSR Ames Stem N %	BSR St. Paul Plant N %
Douglas	WTSSYBL	I	3.0	3	1	100	95.0	50
Pyramid	PGTSYIb	I	3.7	5	1	100	95.6	-
Ripley	PGTSYBL	D	3.2	4	1	100	97.5	70
Chamberlain (III)	PTBSYBL	I	2.8	4	2	100	88.4	-0-
Morgan (IV)	WTTDYBL	I	2.5	3	2	100	91.3	50
C1653	WTBDYBr	I	2.7	4	1	100	96.3	-0-
C1657	PTBDYBL	I	2.5	3	2	100	87.6	50
C1665	WGBDYBf	I	3.0	5	-	100	95.5	70
HC80-592	WTTSYBL	D	2.7	4	1	100	98.1	50
HC81-799	PTTSYBL	D	3.7	3	1	100	100.0	50
HC81-817	WTTSYBL	D	3.3	4	-	100	97.5	50
K1106	WTTDYBL	I	3.0	5	1	100	91.1	60
K1119	PTTDYIb	I	2.8	4	2	100	94.8	70
LN82-2366	P+WGTSYBf	I	3.2	5	1	100	88.9	50
LN82-4433	PTBDYBL	I	3.3	2	1	100	96.1	20
LS80-6521	PTTDYBL	I	2.5	4	1	100	86.7	60
MD80-I12-1	WTBSYBL	I	3.5	3	1	100	81.9	50
Md81-0953	WTTSYBr	I	2.2	5	1	100	85.4	50

UNIFORM TEST IV, 1986

DISEASE DATA

	BTS	Mottling PS		PR	PS	PSB	SMV
	Ames	Orange		Vickery	Lafayette		
Strain	a Score	%	%	Tolerance Score	a %	a %	a Score
Douglas	4	8	0	3.4	31	58	3E
Pyramid	5	36	0	2.8	29	62	5E
Ripley	3	0	0	2.6	2	14	3E
Chamberlain (III)	4	6	0	2.8	9	34	5S
Morgan (IV)	4	18	0	3.2	5	56	5E
C1653	3	0	0	3.1	37	26	1
C1657	3	0	0	2.6	30	26	2E
C1665	4	0	1	2.4	18	22	1
HC80-592	3	1	0	3.0	34	42	1
HC81-799	4	1	0	3.5	10	30	2E
HC81-817	3	0	0	3.3	14	48	1
K1106	4	15	0	2.6	19	64	5E
K1119	3	0	0	3.0	19	70	2E
LN82-2366	4	0	0	2.8	20	18	1
LN82-4433	3	22	0	2.6	12	52	5E
LS80-6521	4	52	0	2.8	15	54	5E
MD80-I12-1	3	23	0	3.1	23	50	4M
Md81-0953	3	0	0	3.2	14	46	2M

UNIFORM TEST IV, 1986

Regional Summary

No. of Tests	Yield 18 bu/a	Rank 18 No.	Maturity 16 Date	Lodging 17 Score	Plant Height 18 In.	Seed Quality 17 Score	Seed Size 16 g/100	Composition Protein 5 %	Composition Oil 5 %
Douglas	49.3	10	+4.3	2.2	39	2.8	18.7	40.4	21.5
Pyramid	44.6	17	+2.8	2.4	42	2.2	14.6	39.6	20.1
Ripley	49.9	7	-4.4	1.3	22	1.6	13.5	39.7	21.0
Chamberlain (III)	49.0	12	-7.4	2.2	38	2.7	17.7	40.4	21.2
Morgan (IV)	49.7	8	9-24.6*	2.3	40	2.1	17.7	42.6	20.6
C1653	52.3	1	-0.4	1.6	39	2.2	17.4	40.7	21.4
C1657	52.0	2	-2.9	2.3	41	2.3	16.7	40.9	20.8
C1665	49.1	11	+0.4	1.7	39	2.2	16.4	39.7	20.9
HC80-592	43.2	18	-6.1	1.2	20	2.0	17.6	41.1	22.4
HC81-799	46.2	14	-7.2	1.3	21	2.1	15.7	40.6	21.5
HC81-817	45.6	16	-1.3	1.2	19	2.0	17.6	41.0	21.7
K1106	50.3	5	-0.9	1.6	36	2.1	16.6	40.2	21.3
K1119	50.3	5	-0.1	1.8	38	1.8	13.6	40.0	21.3
LN82-2366	50.8	4	-6.4	2.0	35	2.2	16.6	40.9	21.8
LN82-4433	49.5	9	-1.8	1.7	36	2.2	16.3	40.2	21.0
LS80-6521	46.1	15	+4.8	2.4	40	1.9	15.9	39.7	21.4
Md80-IL2-1	46.8	13	+4.1	2.9	46	2.1	15.4	40.8	21.0
Md81-0953	51.0	3	+0.4	2.4	39	2.0	15.7	40.0	21.3

*129 days after planting.

UNIFORM TEST IV, 1986

1985-1986 2-YEAR MEAN

Strain	Yield	Rank	Maturity	Lodging	Plant Height	Seed Quality	Seed Size	Composition	
								Protein	Oil
No. of Tests	35	35	30	34	35	34	32	10	10
	bu/a	No.	Date	Score	In.	Score	g/100	%	%
Douglas	46.2	7	+4.0	2.0	37	2.8	18.6	40.8	21.5
Pyramid	42.9	9	+2.8	2.4	41	2.2	14.8	40.2	20.4
Ripley	49.2	3	-2.6	1.3	23	1.6	14.0	39.8	21.4
Morgan (IV)	47.2	5	9-26.5*	2.0	38	2.2	17.6	42.8	20.8
C1653	49.9	1	-0.2	1.4	36	2.4	18.0	40.7	21.8
C1657	49.4	2	-1.6	2.0	39	2.3	17.2	41.1	21.0
K1106	48.0	4	-0.2	1.5	34	2.1	17.0	40.8	21.6
LS80-6521	44.8	8	+3.7	2.0	38	2.0	16.2	40.2	21.8
Md80-IL2-1	46.3	6	+3.2	2.6	44	2.2	16.0	41.2	21.2

* 129 Days After Planting

1984-1986 3-YEAR MEAN

No. of Tests	53	53	47	52	53	52	48	12	12
Douglas	45.0	4	+4.1	1.9	37	2.7	18.4	40.5	21.6
Pyramid	42.1	5	+3.1	2.5	42	2.1	14.7	39.5	20.8
Ripley	47.4	1	-2.4	1.3	23	1.7	13.8	39.1	21.7
Morgan (IV)	46.7	2	9-26.7*	2.0	39	2.0	17.5	42.3	20.8
Md80-IL2-1	45.1	3	+3.0	2.5	44	2.2	15.7	40.1	21.5

* 128 Days After Planting

UNIFORM TEST IV, 1986

YIELD (bu/a)

Strain	Mean 18 Tests	Belleville,IL	Carbondale,IL	Eldorado,IL	Lafayette,IN	Sullivan,IN
Douglas	49.3	50.3	45.4	57.5	62.7	54.1
Pyramid	44.6	54.7	40.7	53.2	49.3	54.3
Ripley	49.9	45.4	45.5	63.0	61.7	62.1
Chamberlain (III)	49.0	47.6	45.3	54.7	64.8	57.6
Morgan (IV)	49.7	55.9	43.8	55.4	62.5	62.7
C1653	52.3	51.7	52.9	55.4	63.9	65.0
C1657	52.0	53.2	49.6	65.0	61.7	69.8
C1665	49.1	50.2	47.9	58.9	62.9	68.5
HC80-592	43.2	42.1	39.7	48.8	61.0	46.5
HC81-799	46.2	46.3	44.6	45.3	60.7	58.3
HC81-817	45.6	48.4	47.4	51.9	57.3	46.0
K1106	50.3	50.1	46.8	57.9	59.7	67.1
K1119	50.3	46.2	49.7	60.7	62.1	59.2
LN82-2366	50.8	52.6	44.6	57.4	63.6	66.2
LN82-4433	49.5	48.9	42.8	58.4	57.3	70.1
LS80-6521	46.1	57.9	40.6	54.0	60.2	65.1
MD80-I12-1	46.8	43.5	43.8	49.0	69.0	73.4
Md81-0953	51.0	48.5	48.0	63.7	63.9	69.9
C.V. (%)		8.6	9.3	6.6	7.2	9.8
L.S.D. (5%)		6.9	7.0	6.1	7.1	9.7
Row sp. (in)		30	30	30	24	15
Rows/plot		4	4	4	4	5
Reps		3	3	3	3	3

UNIFORM TEST IV, 1986

YIELD (bu/a)

Strain	Manhattan,KS	Topeka,KS	Lexington,KY	Queenstown,MD	Columbia,MO	Portageville,MO Clay	Portageville,MO Loam
Douglas	64.9	72.0	33.7	61.7	54.4	27.9	40.1
Pyramid	54.2	59.7	32.6	61.0	48.2	20.5	34.6
Ripley	63.9	72.6	41.5	49.4	56.7	21.8	19.0
Chamberlain (III)	62.9	70.3	24.1	68.2	48.0	25.5	33.0
Morgan (IV)	61.0	63.6	32.7	64.6	57.9	25.7	37.3
C1653	57.8	68.4	28.9	69.8	60.2	25.4	40.2
C1657	61.3	67.4	37.0	60.6	56.3	32.0	33.7
C1665	56.8	62.6	33.2	55.0	50.8	33.3	36.7
HC80-592	62.3	62.6	18.7	48.4	47.5	25.6	26.2
HC81-799	62.9	66.5	25.1	56.8	61.7	21.5	31.9
HC81-817	65.5	65.2	26.3	58.1	49.7	21.7	23.1
K1106	58.7	70.7	32.7	57.8	56.8	26.9	33.0
K1119	64.2	72.9	36.4	65.8	55.9	23.0	38.6
LN82-2366	67.8	71.6	27.9	65.0	61.1	23.0	34.4
LN82-4433	56.8	73.2	27.7	62.3	56.6	31.2	32.7
LS80-6521	55.2	63.2	30.4	--	52.2	22.9	42.5
MD80-I12-1	58.1	62.0	30.3	55.6	49.2	25.8	34.4
Md81-0953	61.0	67.1	28.9	67.8	51.9	28.0	36.7
C.V. (%)	6.2	7.2	21.2	14.9	6.7	16.0	15.8
L.S.D.(5%)	6.3	8.1	6.9	NS	6.0	6.8	8.9
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 IV, 1986

YIELD (bu/a)

Strain	Lincoln,NE	Ripley,OH	S.Charleston,OH	Landiville,PA	Lubbock,TX	Orange,VA
Douglas	33.3	46.0	62.3	44.8	30.1	46.4
Pyramid	31.1	44.8	54.1	39.7	25.1	44.5
Ripley	59.9	53.7	62.2	41.2	30.7	48.0
Chamberlain (III)	51.0	42.6	70.8	49.6	23.2	43.4
Morgan (IV)	37.3	51.5	67.4	46.1	20.9	47.6
C1653	51.0	51.0	68.6	51.9	31.3	47.1
C1657	49.4	49.9	64.1	49.0	27.6	43.3
C1665	44.2	45.4	65.3	44.8	23.9	42.5
HC80-592	58.0	44.7	56.8	38.0	13.5	37.3
HC81-799	60.0	40.9	55.7	36.7	21.6	35.4
HC81-817	53.1	47.8	60.9	38.1	20.1	40.7
K1106	48.1	54.4	64.4	48.2	25.5	46.6
K1119	52.7	55.7	65.7	40.5	19.4	45.3
LN82-2366	54.5	45.8	60.1	50.5	26.1	41.9
LN82-4433	44.9	44.4	64.9	40.3	32.0	45.6
LS80-6521	36.2	41.2	58.3	37.5	24.6	41.4
MD80-I12-1	37.3	38.4	58.3	42.5	26.5	45.8
Md81-0953	44.5	56.2	64.9	48.7	21.2	47.1
C.V. (%)	10.4	12.8	7.8	9.2	13.0	15.0
L.S.D. (5%)	8.2	10.2	8.1	6.7	5.3	NS
Row sp. (in)	30	30	30	24	40	30
Rows/plot	4	4	4	4	4	4
Reps	3	3	3	3	3	3

UNIFORM TEST IV, 1986

YIELD RANK

Strain	Yield Rank	Belleville,IL	Carbondale,IL	Eldorado,IL	Lafayette,IN	Sullivan,IN
Douglas	10	7	9	8	7	16
Pyramid	17	3	16	14	18	15
Ripley	7	16	8	3	10	11
Chamberlain (III)	12	13	10	12	2	14
Morgan (IV)	8	2	13	10	8	10
C1653	1	6	1	10	3	9
C1657	2	4	3	1	10	4
C1665	11	8	5	5	6	5
HC80-592	18	18	18	17	12	17
HC81-799	14	14	11	18	13	13
HC81-817	16	12	6	15	16	18
K1106	5	9	7	7	15	6
K1119	5	15	2	4	9	12
LN82-2366	4	5	11	9	5	7
LN82-4433	9	10	15	6	16	2
LS80-6521	15	1	17	13	14	8
MD80-I12-1	13	17	13	16	1	1
Md81-0953	3	11	4	2	3	3

UNIFORM TEST IV, 1986

YIELD RANK

Strain	Manhattan,KS	Topeka,KS	Lexington,KY	Queenstown,MD	Columbia,MO	Portageville,MO Clay	Portageville,MO Loam
Douglas	3	4	4	8	10	5	3
Pyramid	18	18	8	9	16	18	8
Ripley	5	3	1	16	6	15	18
Chamberlain (III)	6	7	17	2	17	10	12
Morgan (IV)	10	13	6	6	4	8	5
C1653	14	8	11	1	3	--	--
C1657	9	9	2	10	8	2	11
C1665	15	15	5	15	13	1	6
HC80-592	8	15	18	17	18	9	16
HC81-799	6	11	16	13	1	17	15
HC81-817	2	12	15	11	14	16	17
K1106	12	6	6	12	5	6	12
K1119	4	2	3	4	9	12	4
LN82-2366	1	5	13	5	2	12	9
LN82-4433	15	1	14	7	7	3	14
LS80-6521	17	14	9	--	11	14	1
MD80-I12-1	13	17	10	14	15	7	9
Md81-0953	10	10	11	3	12	4	6

UNIFORM TEST IV, 1986

YIELD RANK

Strain	Lincoln,NE	Ripley,OH	S.Charleston,OH	Landisville,PA	Lubbock,TX	Orange,VA
Douglas	17	9	10	8	4	7
Pyramid	18	12	18	14	9	11
Ripley	2	4	11	11	3	2
Chamberlain (III)	7	15	1	3	12	12
Morgan (IV)	14	5	3	7	15	3
C1653	7	6	2	1	2	4
C1657	9	7	9	4	5	1
C1665	13	11	5	8	11	13
HC80-592	3	13	16	16	18	17
HC81-799	1	17	17	18	13	18
HC81-817	5	8	12	15	16	16
K1106	10	3	8	6	8	6
K1119	6	2	4	12	17	10
LN82-2366	4	10	13	2	7	14
LN82-4433	11	14	6	13	1	9
LS80-6521	16	16	14	17	10	15
MD80-I12-1	14	18	14	10	6	8
MD81-0953	12	1	6	5	14	4

UNIFORM TEST IV, 1986

MATURITY (date)

Strain	Mean 16 Tests	Belleville,IL	Carbondale,IL	Eldorado,IL	Lafayette,IN	Sullivan,IN
Douglas	+4.3	+1	+6	+4	+7	0
Pyramid	+2.8	+1	+1	+2	+2	-1
Ripley	-4.4	-5	0	-4	-9	-4
Chamberlain (III)	-7.4	-9	0	-12	-11	-8
Morgan (IV)	9-24.6	9-23	9-24	9-14	10-7	9-22
C1653	-0.4	-1	+2	-2	-5	-1
C1657	-2.9	-3	0	-5	-4	-4
C1665	+0.4	0	+2	+1	0	-2
HC80-592	-6.1	-4	0	-5	-6	-7
HC81-799	-7.2	-5	0	-6	-12	-7
HC81-817	-1.3	-1	0	-1	-4	-2
K1106	-0.9	-2	+3	-5	-4	-4
K1119	-0.1	+1	+1	0	-3	-3
LN82-2366	-6.4	-6	+2	-9	-6	-7
LN82-4433	-1.8	-2	+1	-5	-5	-3
LS80-6521	+4.8	+4	+2	+5	+9	0
MD80-I12-1	+4.1	+2	0	+1	+8	+1
Md81-0953	+0.4	0	0	-2	+4	-1
Date Planted	5-18	5-21	5-24	5-2	5-23	5-9
Days To Mature	130	125	123	135	137	136

UNIFORM TEST IV, 1986

MATURITY (date)

Strain	Lincoln,NE	Ripley,OH	S.Charleston,OH	Landisville,PA	Lubbock,TX	Orange,VA
Douglas	+4	0	+5	+2	+7	+11
Pyramid	0	0	+1	+2	+1	+12
Ripley	-6	-8	-4	-10	+4	+1
Chamberlain (III)	-10	-12	-9	-5	0	0
Morgan (IV)	9-28	9-15	9-27	10-6	9-15	9-21
C1653	-2	-4	-2	-3	+8	+5
C1657	-5	-6	-4	-5	+2	+3
C1665	0	-4	-1	-5	+4	+8
HC80-592	-2	-14	-9	-12	+2	-2
HC81-799	-3	-13	-10	-12	+2	-2
HC81-817	-1	-7	-2	-5	+2	+8
K1106	-1	-5	-3	-3	+8	+7
K1119	0	-2	-2	-3	0	+8
LN82-2366	-2	-18	-13	-10	+6	+3
LN83-4433	-2	-2	-2	0	+3	+5
LS80-6521	+4	+1	+7	+2	+1	+12
MD80-I12-1	+4	+2	+3	0	+1	+12
Md81-0953	0	-2	-2	-2	+4	+6
Date Planted	6-2	5-2	5-5	5-23	5-13	5-29
Days To Mature	118	136	145	136	125	115

UNIFORM TEST IV, 1986

MATURITY (date)

Strain	Manhattan,KS	Topeka,KS	Lexington,KY	Queenstown,MD	Columbia,MO	Portageville,MO Clay	Portageville,MO Loam
Douglas	+3		+5	+2	0*	+8	+4
Pyramid	+5		+7	0	+2	+10	+2
Ripley	-4		-5	-8	-8	+2	-9
Chamberlain (III)	-6		-16	-10	-12	-6	-5
Morgan (IV)	10-7		9-27	10-1	0	9-16	9-21
C1653	-4		-1	-4	-3	-3	
C1657	-2		-4	-4	-6	-1	-5
C1665	-1		0	-2	+1	+6	0
HC80-592	-1		-21	-7	-8	-1	-8
HC81-799	-6		-21	-8	-9	-3	-9
HC81-817	0		-7	-4	-4	+4	-1
K1106	-2		-1	-2	-3	+2	-2
K1119	-2		-2	-4	-1	+10	+2
LN82-2366	0		-24	-7	-9	-4	-8
LN82-4433	-4		0	-7	-6	-1	-5
LS80-6521	+3		+11	+2	+3	+9	+4
MD80-I12-1	+8		+10	+3	+1	+9	+2
Md81-0953	-2		-1	-1	0	+4	+1
Date Planted	6-2	5-22	5-21	5-29	4-28	6-3	5-28
Days To Mature	121		129	125		113	120

* Data Not Included in Mean

UNIFORM TEST IV, 1986

LODGING (Score)

Strain	Mean 17 Tests	Belleville,IL	Carbondale,IL	Eldorado,IL	Lafayette,IN	Sullivan,IN
Douglas	2.2	1.8	2.0	1.4	2.7	1.8
Pyramid	2.4	2.4	1.0	1.9	3.3	2.3
Ripley	1.3	1.1	1.0	1.1	1.3	1.0
Chamberlain (III)	2.2	2.6	1.3	1.5	3.0	2.0
Morgan (IV)	2.3	3.6	1.3	2.1	3.2	3.0
C1653	1.6	1.4	1.3	1.1	2.2	1.5
C1657	2.3	2.4	1.3	1.4	2.8	2.4
C1665	1.7	1.4	1.2	1.2	2.2	1.2
HC80-592	1.2	1.3	1.2	1.0	1.0	1.0
HC81-799	1.3	1.1	1.0	1.1	1.0	1.0
HC81-817	1.2	1.2	1.0	1.1	1.0	1.0
K1106	1.6	1.4	1.2	1.2	2.2	1.0
K1119	1.8	1.3	1.5	1.4	2.5	1.3
LN82-2366	2.0	2.5	1.3	1.2	3.2	1.8
LN82-4433	1.7	1.3	1.0	1.2	2.3	1.5
LS80-6521	2.4	2.7	1.2	1.3	3.2	2.2
MD80-I12-1	2.9	2.2	1.5	2.7	3.0	3.3
Md81-0953	2.4	3.3	1.3	1.9	3.5	3.0

UNIFORM TEST IV, 1986

LODGING (Score)

Strain	Manhattan,KS	Topeka,KS	Lexington,KY	Queenstown,MD	Columbia,MO	Portageville,MO Clay	Portageville,MO Loam
Douglas	2.3	2.0	2.7	2.5	1.7	1.0	1.0
Pyramid	2.0	2.0	2.8	3.0	3.2	1.0	1.5
Ripley	1.0	1.0	2.0	1.2	1.2	1.0	1.0
Chamberlain (III)	1.7	2.3	2.5	2.3	1.9	1.5	1.0
Morgan (IV)	2.3	1.7	1.8	2.3	1.9	1.0	1.0
C1653	1.0	1.3	1.5	2.2	1.2	1.0	1.0
C1657	1.7	1.3	3.0	2.3	3.2	1.0	1.0
C1665	1.0	1.7	1.7	2.0	1.5	1.0	1.0
HC80-592	1.0	1.0	1.7	1.0	1.2	1.0	1.0
HC81-799	1.0	1.0	1.5	1.2	1.4	1.0	1.0
HC81-817	1.0	1.0	1.5	1.0	1.3	1.0	1.0
K1106	1.0	1.3	1.7	2.0	1.3	1.0	1.0
K1119	1.0	1.7	2.2	2.3	1.7	1.0	1.0
LN82-2366	2.3	1.7	2.2	2.2	1.7	1.0	1.0
LN82-4433	1.3	1.3	1.5	2.0	1.5	1.0	1.0
LS80-6521	2.3	1.3	2.3	2.8	2.5	1.5	1.5
MD80-I12-1	3.3	3.0	3.5	3.2	3.9	1.5	1.5
Md81-0953	1.7	1.7	2.0	2.5	2.3	1.5	1.0

UNIFORM TEST IV, 1986

LODGING (Score)

Strain	Lincoln,NE	Ripley,OH	S.Charleston,OH	Landisville,PA	Lubbock,TX	Orange,VA
Douglas		2.3	2.8	3.0	3.2	2.7
Pyramid		3.1	2.3	3.5	3.5	2.7
Ripley		1.1	2.2	2.0	2.0	1.3
Chamberlain (III)		1.8		2.5	3.3	2.7
Morgan (IV)		2.2	2.8	3.0	3.7	2.3
			3.2			
C1653		1.3	2.0	2.5	3.0	1.7
C1657		2.0	4.0	3.0	2.8	3.7
C1665		1.4	2.0	2.5	3.3	2.0
HC80-592		1.0	2.2	1.5	1.7	1.0
HC81-799		1.1	3.2	2.5	1.5	1.3
HC81-817		1.0	1.7	2.0	1.5	1.0
K1106		1.1	2.0	2.5	3.3	2.0
K1119		1.8	2.2	2.5	3.0	2.7
LN82-2366		1.5	3.7	2.5	2.5	2.3
LN82-4433		1.9	2.2	2.5	4.0	1.7
LS80-6521		2.7	2.5	3.0	4.2	3.0
MD80-I12-1		3.5	3.2	3.5	4.0	3.3
Md81-0953		2.6	2.5	3.5	3.0	2.7

UNIFORM TEST IV, 1986

PLANT HEIGHT (Inches)

Strain	Mean 18 Tests	Belleville,IL	Carbondale,IL	Eldorado,IL	Lafayette,IN	Sullivan,IN
Douglas	39	41	36	37	43	37
Pyramid	42	50	33	42	46	41
Ripley	22	25	15	20	30	23
Chamberlain (III)	38	45	33	36	45	40
Morgan (IV)	40	45	35	42	44	42
C1653	39	43	35	37	42	--
C1657	41	45	35	40	46	44
C1665	39	44	28	43	45	45
HC80-592	20	23	22	17	26	21
HC81-799	21	23	21	17	25	23
HC81-817	19	23	15	16	24	21
K1106	36	40	30	34	41	37
K1119	38	39	32	41	42	37
LN82-2366	35	39	32	29	40	36
LN82-4433	36	39	25	36	43	41
LS80-6521	40	48	37	39	46	41
MD80-I12-1	46	55	41	44	55	47
Md81-0953	39	41	35	39	43	39

UNIFORM TEST IV, 1986

PLANT HEIGHT (Inches)

Strain	Manhattan,KS	Topeka,KS	Lexington,KY	Queenstown,MD	Columbia,MO	Portageville,MO Clay	Portageville,MO Loam
Douglas	49	49	36	39	40	23	30
Pyramid	49	54	38	41	44	23	34
Ripley	24	25	25	17	20	11	9
Chamberlain (III)	47	48	33	36	39	20	30
Morgan (IV)	48	53	34	39	43	23	35
C1653	46	54	34	39	39	21	32
C1657	49	53	37	38	44	25	34
C1665	48	51	34	39	45	24	34
HC80-592	19	23	23	13	20	12	16
HC81-799	22	26	24	17	22	13	15
HC81-817	20	25	21	16	20	10	13
K1106	44	48	31	35	38	22	28
K1119	45	52	34	39	40	21	30
LN82-2366	44	50	33	34	34	18	30
LN82-4433	43	48	31	35	37	23	30
LS80-6521	49	51	33	43	42	26	33
MD80-112-1	52	57	41	49	48	24	33
Md81-0953	44	50	32	42	40	22	36

UNIFORM TEST IV, 1986

PLANT HEIGHT (Inches)

Strain	Lincoln,NE	Ripley,OH	S.Charleston,OH	Landisville,PA	Lubbock,TX	Orange,VA
Douglas	49	40	38	39	25	44
Pyramid	50	45	39	41	31	51
Ripley	27	28	28	24	19	27
Chamberlain (III)	49	39	41	39	24	42
Morgan (IV)	47	41	42	37	27	43
C1653	47	41	41	40	24	42
C1657	50	43	43	40	25	46
C1665	44	41	40	37	26	[illegible]
HC80-592	24	21	24	21	15	19
HC81-799	27	24	26	22	12	21
HC81-817	24	23	25	18	11	21
K1106	42	37	37	38	25	40
K1119	44	42	38	38	25	45
LN82-2366	46	37	34	34	21	38
LN82-4433	44	41	39	34	23	38
LS80-6521	42	41	42	37	26	41
MD80-I12-1	63	50	42	42	31	51
Md81-0953	51	39	42	36	24	42

UNIFORM TEST IV, 1986

SEED QUALITY (Score)

Strain	Mean 17 Tests	Belleville,IL	Carbondale,IL	Eldorado,IL	Lafayette,IN	Sullivan,IN
Bouglas	2.8	3.3	2.0	3.7	2.0	2.0
Pyramid	2.2	3.2	2.0	3.0	2.0	1.0
Ripley	1.6	2.0	1.0	2.0	2.0	1.5
Chamberlain (III)	2.7	4.0	3.0	3.0	2.0	2.0
Morgan (IV)	2.1	2.8	1.0	3.2	1.5	1.5
C1653	2.2	2.2	3.0	4.0	1.5	2.0
C1657	2.3	3.2	2.0	3.5	1.5	1.0
C1665	2.2	3.2	2.0	3.0	1.5	1.5
HC80-592	2.0	2.7	2.0	3.8	1.5	1.5
HC81-799	2.1	3.0	2.0	3.5	1.5	1.0
HC81-817	2.0	3.2	2.0	2.3	1.5	1.0
K1106	2.1	2.7	2.0	3.0	1.0	1.5
K1119	1.8	3.0	1.0	2.2	1.5	1.0
LN82-2366	2.2	2.8	3.0	3.5	2.0	1.5
LN82-4433	2.2	2.8	2.0	3.0	2.0	1.0
LS80-6521	1.9	3.0	1.0	2.0	1.5	1.0
MD80-I12-1	2.1	3.0	2.0	2.7	1.5	1.0
Md81-0953	2.0	2.5	1.0	3.0	1.5	1.0

UNIFORM TEST IV, 1986

SEED QUALITY (Score)

Strain	Manhattan,KS	Topeka,KS	Lexington,KY	Queenstown,MD	Columbia,MO	Portageville,MO Clay	Portageville,MO Loam
Douglas	2.0	2.5	4.0	3.3	1.7	3.0	3.5
Pyramid	2.0	2.5	3.0	1.2	2.3	2.0	2.0
Ripley	1.5	2.0	1.0	1.0	2.0	1.5	2.0
Chamberlain (III)	2.0	2.0	2.0	2.3	3.7	3.0	3.0
Morgan (IV)	2.0	2.0	3.0	1.0	1.3	2.0	2.0
C1653	2.0	1.0	4.0	1.0	1.3	2.0	2.5
C1657	2.0	2.0	2.0	1.3	2.7	3.0	2.5
C1665	2.0	2.0	2.0	2.0	2.0	2.5	2.0
HC80-592	1.0	2.0	2.0	1.2	1.3	2.5	2.5
HC81-799	1.0	2.0	2.0	1.7	2.3	2.5	2.0
HC81-817	1.5	1.5	2.0	1.5	1.7	2.5	2.0
K1106	2.0	2.5	1.0	1.5	2.3	2.5	2.0
K1119	1.0	2.0	2.0	1.0	2.0	2.0	1.5
LN82-2366	2.0	1.5	2.0	1.2	2.7	2.0	2.0
LN82-4433	1.0	2.0	3.0	1.5	2.0	2.0	2.5
LS80-6521	2.0	1.5	2.0	1.0	1.3	2.0	2.0
MD80-I12-1	2.0	2.0	3.0	1.2	2.3	2.0	2.0
Md81-0953	1.0	1.5	2.0	1.0	2.7	2.0	2.0

UNIFORM TEST IV, 1986

SEED QUALITY (Score)

Strain	Lincoln,NE	Ripley,OH	S.Charleston,OH	Landisville,PA	Lubbock,TX	Orange,VA
Douglas	2.0	3.2		2.5	4.2	2.3
Pyramid	2.0	1.3		2.5	4.0	2.2
Ripley	1.0	1.0		1.5	3.0	1.5
Chamberlain (III)	2.0	1.7		2.5	5.0	2.2
Morgan (IV)	2.0	2.0		2.5	3.8	2.2
C1653	1.5	1.2		2.5	4.5	1.7
C1657	1.8	1.3		2.0	5.0	2.0
C1665	2.0	1.2		2.0	5.0	1.8
HC80-592	1.0	1.2		1.5	5.0	1.8
HC81-799	1.0	1.0		1.5	5.0	2.2
HC81-817	1.0	1.3		2.5	4.5	2.0
K1106	1.7	1.0		2.5	4.5	2.0
K1119	1.5	1.0		2.0	4.8	1.7
LN82-2366	1.5	1.0		2.5	5.0	1.7
LN82-4433	1.8	2.2		2.0	5.0	2.0
LS80-6521	1.5	1.7		2.5	4.2	2.2
MD80-I12-1	1.3	1.0		2.5	4.7	2.2
Md81-0953	1.8	1.2		2.5	5.0	2.0

UNIFORM TEST IV, 1986

SEED SIZE (g/100)

Strain	Mean 16 Tests	Belleville,IL	Carbondale,IL	Eldorado,IL	Lafayette,IN	Sullivan,IN
Douglas	18.7	15.4	17.4	15.3	20.1	15.8
Pyramid	14.6	12.5	13.8	11.8	14.9	12.5
Ripley	13.5	11.1	14.6	12.9	13.3	12.6
Chamberlain (III)	17.7	16.1	18.4	15.3	19.0	17.4
Morgan (IV)	17.7	15.6	16.7	16.0	17.7	16.5
C1653	17.4	14.4	18.3	14.7	17.8	[illegible]
C1657	16.7	13.8	17.9	14.7	16.8	15.2
C1665	16.4	14.9	16.7	14.6	16.8	15.2
HC80-592	17.6	13.1	17.7	18.2	20.2	18.1
HC81-799	15.7	12.5	16.5	16.0	16.1	15.1
HC81-817	17.6	14.6	18.3	18.3	19.5	16.6
K1106	16.6	13.7	16.0	14.2	16.4	15.9
K1119	13.6	10.5	13.8	12.3	13.7	12.2
LN82-2366	16.6	15.7	16.5	16.3	16.5	16.3
LN82-4433	16.3	13.4	16.4	14.2	16.3	16.0
LS80-6521	15.9	13.9	14.5	12.7	16.7	14.8
MD80-112-1	15.4	13.0	14.1	13.0	15.9	14.2
Md81-0953	15.7	14.0	14.5	13.5	16.8	13.9

UNIFORM TEST IV, 1986

SEED SIZE (g/100)

Strain	Manhattan,KS	Topeka,KS	Lexington,KY	Queenstown,MD	Columbia,MO	Portageville,MO Clay	Portageville,MO Loam
Douglas	20.1	22.7	18.3	18.6	19.9		17.2
Pyramid	15.4	16.9	16.2	14.6	13.6		14.8
Ripley	14.1	15.6	11.0	12.1	15.9		11.5
Chamberlain (III)	19.4	21.7	12.4	17.4	18.3		15.1
Morgan (IV)	20.6	20.4	16.2	17.4	18.5		16.5
C1653	17.2	20.4	15.3	16.5	17.7		16.4
C1657	17.7	20.3	14.5	16.7	18.1		14.8
C1665	16.8	18.0	15.2	15.7	17.5		15.6
HC80-592	19.5	21.5	9.3	17.5	20.1		15.8
HC81-799	16.7	18.0	10.5	15.8	17.2		14.0
HC81-817	17.5	19.3	12.2	15.6	21.0		16.6
K1106	17.5	18.3	14.5	16.2	18.0		15.2
K1119	14.2	16.9	12.1	13.5	14.3		12.8
LN82-2366	19.8	19.8	9.3	15.7	19.4		15.0
LN82-4433	16.7	18.4	15.8	16.1	16.1		15.3
LS80-6521	16.4	17.8	15.6	16.7	16.4		15.9
MD80-I12-1	16.4	17.0	16.1	16.0	16.6		14.1
Md81-0953	18.0	17.8	13.9	16.1	14.7		14.7

UNIFORM TEST IV, 1986

SEED SIZE (g/100)

Strain	Lincoln,NE	Ripley,OH	S.Charleston,OH	Landisville,PA	Lubbock,TX	Orange,VA
Douglas	19.9	18.2		17.2	23.5	19.4
Pyramid	15.4	14.2		14.1	17.2	15.8
Ripley	15.3	12.5		12.5	18.4	13.2
Chamberlain (III)	19.1	16.4		15.1	23.8	17.8
Morgan (IV)	18.5	16.5		16.2	20.4	20.0
C1653	18.6	15.9		17.4	22.6	18.6
C1657	18.8	15.3		14.2	20.0	18.0
C1665	17.0	16.0		14.1	20.4	17.1
HC80-592	22.1	13.7		15.1	21.7	17.8
HC81-799	19.2	14.1		13.7	20.4	15.9
HC81-817	21.9	15.1		15.1	22.2	17.4
K1106	19.0	15.4		15.1	22.0	17.7
K1119	15.2	13.4		12.2	16.3	14.3
LN82-2366	19.3	13.4		12.9	22.3	17.0
LN82-4433	17.4	17.0		14.9	21.0	16.4
LS80-6521	16.7	15.3		14.9	18.5	16.9
MD80-I12-1	16.7	14.8		13.8	18.4	16.7
Md81-0953	17.1	15.7		15.0	18.1	16.8

UNIFORM TEST IV, 1986

PROTEIN (%)

Strain	Mean 5 Tests	Eldorado,IL	Sullivan,IN	Manhattan,KS	Lexington,KY	Ripley,OH
Douglas	40.4	39.7	40.8	38.2	42.4	40.8
Pyramid	39.6	39.7	40.2	39.9	39.5	38.5
Ripley	39.7	38.7	38.5	41.9	39.8	39.4
Chamberlain (III)	40.4	38.7	41.8	39.9	40.4	41.0
Morgan (IV)	42.6	42.2	42.5	40.0	45.5	42.7
C1653	40.7	40.1	40.2	40.1	42.2	40.7
C1657	40.9	40.9	42.0	40.8	40.2	40.7
C1665	39.7	38.9	40.1	39.2	40.8	39.3
HC80-592	41.1	41.4	40.9	39.8	42.4	41.2
HC81-799	40.6	39.4	39.4	39.6	42.3	42.1
HC81-817	41.0	39.4	40.2	39.7	43.7	41.8
K1106	40.2	40.3	41.1	38.1	41.8	39.8
K1119	40.0	40.1	40.7	40.6	39.2	39.5
LN82-2366	40.9	41.0	40.2	40.4	42.7	40.4
LN82-4433	40.2	38.5	39.7	40.1	41.8	40.8
LS80-6521	39.7	38.1	39.8	39.4	41.9	39.5
MD80-I12-1	40.8	41.3	40.5	40.5	41.7	40.2
Md81-0953	40.0	39.1	41.0	40.0	39.5	40.5

UNIFORM TEST IV, 1986

OIL (%)

Strain	Mean 5 Tests	Eldorado,IL	Sullivan,IN	Manhattan,KS	Lexington,KY	Ripley,OH
Douglas	21.5	22.5	20.6	21.9	21.2	21.1
Pyramid	20.1	20.0	19.3	20.6	20.1	20.7
Ripley	21.0	22.1	21.7	20.2	20.3	20.9
Chamberlain (III)	21.2	22.3	20.6	20.8	20.5	21.6
Morgan (IV)	20.6	21.4	20.2	20.7	20.2	20.4
C1653	21.4	22.0	21.4	20.5	22.3	20.9
C1657	20.8	20.9	20.1	20.9	20.8	21.1
C1665	20.9	22.3	20.7	19.4	20.8	21.2
HC80-592	22.4	23.4	22.8	21.8	21.4	22.6
HC81-799	21.5	24.9	21.2	21.1	19.7	20.6
HC81-817	21.7	24.0	21.0	22.5	19.9	21.0
K1106	21.3	21.9	21.2	20.9	20.6	21.6
K1119	21.3	21.9	20.9	20.8	21.2	21.7
LN82-2366	21.8	23.3	22.1	21.5	20.4	21.6
LN82-4433	21.0	22.4	21.2	21.3	20.2	20.1
LS80-6521	21.4	23.1	21.4	21.2	20.3	20.8
MD80-I12-1	21.0	22.1	20.9	20.5	20.3	21.1
Md81-0953	21.3	22.8	20.7	19.8	21.4	21.9

Preliminary Test IVA, 1986

Strain	Parentage	Generation Composited
Pyramid	Franklin X J74-5	F4
Ripley	Hodgson X V68-1034	F5
Chamberlain (III)	A76-304020 X Land O'Lakes Max	F4
Morgan (IV)	Union X Miles	F5
K1125	Sparks X Forrest	F5
K1126	H7847 X Forrest	F5
K1127	H7847 X Forrest	F5
Ky82-0881	Desoto X Essex	F5
Ky82-1313	Douglas X Elf	F5
Ky82-1475	K1035 X Essex	F5
Ky82-1482	K1035 X Essex	F5
LN82-1482	K1042 X Century	F5
LN82-8699	K1056 X L73-4673	F5
LN83-467	BSR 201 X HC76-4030	F4
LN83-2324	LN78-2714 X HC76-4030	F4
LN83-2356	LN78-2714 X HC76-4030	F4
LS80-W6714	L73-6536 X Pixie	F4
LS81-A5651	Dyer X Union	F4
LS81-A6003	Dyer X Williams	F4
LS81-Ora729	Custer X Douglas	F4
LS82-A3223	LS77-13 X A75-302003	F5
S82-1111	L75-8064 X Forrest	F5
S83-1004	Cumberland X Forrest	F5
S84-6484	Douglas X Peking	F5
V82-885	Essex X V71-793	F5

PRELIMINARY TEST IVA, 1986

DESCRIPTIVE AND DIEASE DATA

Strain	Descriptive Code		Shattering Score		BSR	
			Eldorado	Manhattan	Plant N %	Stem N %
Pyramid	PGTSYIb	I	1	1	100	85.5
Ripley	PGTSYB1	D	1	1	100	98.9
Chamberlain (III)	PTBSYB1	I	2.5	2	100	60.3
Morgan (IV)	WTTDYB1	I	1	1	100	93.9
K1125	WTTDYB1	I	1.5	2	100	91.6
K1126	WTTDYB1	I	1	1	100	94.6
K1127	WTBSYB1	I	1	1	100	90.2
KY82-0881	PTTDYB1	I	1	1	100	93.9
KY82-1313	WTBSYB1	I	1	1	100	93.4
KY82-1475	WTBSYB1	I	1	1	100	88.0
KY82-1482	WTTDYB1	I	1	1	100	91.3
LN82-1482	PTTDYB1	I	1	1	100	99.5
LN82-8699	WGTDYY	I	1	2	100	89.2
LN83-467	WTTDYB1	I	1	1	90	62.4
LN83-2324	PTTDYB1	I	1	1	100	94.3
LN83-2356	PTTDYB1	I	1	1	100	76.7
LS80-W6714	PGTSYIb	I	1	1	100	96.8
LS81-A5651	PTTSYB1	I	1	1	100	90.4
LS81-A6003	PTTSYB1	I	1	-	100	87.6
LS81-Ora729	P+WGTSYIb	I	1	-	100	93.0
LS82-A3223	PTTDYB1	I	1	1	100	71.1
S82-1111	WTBSYB1	I	1	1	100	87.8
S83-1004	WGTSYBf	I	1	1	100	94.9
S84-6484	WTTSYB1	I	1	1	100	92.3
V82-885	PGTDYBf	I	1	1	100	89.4

PRELIMINARY TEST IVA, 1986

DISEASE DATA

Strain	PR	PS	PSB	SMV
	Vickery	Lafayette		
	Tolerance Score	a %	a %	a Score
Pyramid	2.8	29	62	5E
Ripley	2.7	2	14	3M
Chamberlain (III)	2.8	9	34	5S
Morgan (IV)	2.7	18	56	5E
K1125	2.5	23	70	5M
K1126	2.9	9	36	3M
K1127	2.9	5	32	4M
KY82-0881	2.4	32	58	3M
KY82-1313	3.0	34	38	2M
KY82-1475	3.5	24	68	3M
KY82-1482	4.1	14	34	1
LN82-1482	3.4	13	66	5E
LN82-8699	2.8	7	42	5E
LN83-467	2.7	4	28	3M
LN83-2324	4.8	16	24	2E
LN83-2356	3.0	21	34	5E
LS80-W6714	3.0	24	56	2E
LS81-A5651	3.5	13	38	1
LS81-A6003	3.3	10	34	5M
LS81-Ora729	4.1	20	54	1
LS82-A3223	3.2	7	70	5E
S82-1111	2.6	17	68	5E
S83-1004	3.2	4	50	1
S84-6484	3.1	34	56	4M
V82-885	2.9	7	24	5E

PRELIMINARY TEST IVA, 1986

Regional Summary

Strain No. of Tests	Yield 8 bu/a	Rank 8 No.	Maturity 8 Date	Lodging 8 Score	Plant Height 8 In	Seed Quality 7 Score	Seed Size 7 g/100	Composition Protein 5 %	Oil 5 %
Pyramid	48.2	19	+1.9	2.4	43	2.0	14.4	40.1	20.2
Ripley	55.2	2	-5.4	1.2	23	1.3	13.0	38.9	21.2
Chamberlain (III)	49.4	16	-8.6	2.1	39	2.4	17.1	40.9	21.1
Morgan (IV)	51.0	11	9-25*	2.0	40	1.9	16.8	43.5	20.4
K1125	50.9	13	-5.3	2.1	39	1.6	16.1	40.0	20.9
K1126	53.6	4	-4.1	1.6	37	1.5	14.0	41.1	20.6
K1127	51.3	9	-5.8	1.6	37	1.5	13.0	42.2	19.9
KY82-0881	53.5	5	-0.5	1.8	39	2.2	14.9	40.7	20.7
KY82-1313	51.7	7	+0.8	1.9	38	3.0	17.8	41.5	21.6
KY82-1475	51.7	7	+3.9	1.8	40	1.9	15.3	42.4	20.9
KY82-1482	53.9	3	-0.9	1.9	41	1.6	14.8	41.8	20.8
LN82-1482	48.5	18	-3.4	1.3	35	2.1	16.3	39.9	21.9
LN82-8699	50.2	15	-4.4	1.2	37	1.5	15.1	40.5	20.1
LN83-467	52.1	6	-5.6	2.5	38	1.4	14.6	42.1	21.1
LN83-2324	50.8	14	-6.1	1.5	36	1.9	16.8	41.7	21.7
LN83-2356	55.4	1	-2.1	1.8	37	1.7	19.3	42.6	21.5
LS80-W6714	47.2	20	+3.9	2.3	43	2.1	17.4	41.4	21.2
LS81-A5651	42.7	24	-1.0	2.4	45	1.7	14.7	40.5	20.7
LS81-A6003	48.9	17	+2.1	2.3	43	1.7	15.1	40.7	20.9
LS81-Ora729	40.0	25	+1.0	2.5	41	2.1	14.3	39.5	21.4
LS82-A3223	43.7	23	-1.1	2.2	46	1.9	14.0	41.5	20.4
S82-1111	46.4	21	+6.3	3.0	46	2.3	15.7	40.7	21.6
S83-1004	51.2	10	+2.5	2.3	41	1.7	13.0	41.8	19.9
S84-6484	51.0	11	-1.1	1.7	38	2.2	16.6	42.6	20.8
V82-885	45.4	22	+2.4	1.7	38	1.7	12.4	42.3	19.8

* 132 Days after planting.

PRELIMINARY TEST IVA, 1986

YIELD (bu/a)

Strain	Mean 8 Tests	Carbon-dale IL	Eldorado IL	Sullivan IN	Manhattan KS	Lexington KY	Queens-town MD	Ripley OH	S. Charles-ton OH
Pyramid	48.3	41.3	52.5	58.6	55.7	28.1	59.6	38.1	51.4
Ripley	55.2	45.6	65.7	59.0	66.8	26.0	49.8	63.5	65.5
Chamberlain (III)	49.4	44.9	52.0	51.1	63.9	20.6	52.9	49.3	60.6
Morgan (IV)	51.0	43.4	51.5	53.5	61.0	24.9	56.2	54.4	63.0
K1125	50.9	45.2	53.1	53.9	62.4	25.3	53.5	53.8	60.1
K1126	53.6	51.6	57.1	54.6	57.1	29.9	66.6	52.7	59.4
K1127	51.3	48.5	59.5	52.5	56.6	27.9	48.9	56.7	59.6
KY82-0881	53.5	47.8	60.8	53.3	56.6	37.2	57.4	54.3	60.9
KY82-1313	51.7	43.2	57.4	53.2	60.0	24.1	56.6	53.4	65.9
KY82-1475	51.7	46.2	63.8	48.5	54.7	31.6	63.0	47.5	58.0
KY82-1482	53.9	46.3	55.1	60.5	61.5	35.3	64.1	51.1	57.3
LN82-1482	48.5	29.3	56.3	46.7	63.4	24.7	52.0	54.9	60.2
LN82-8699	50.2	41.3	53.9	60.1	56.1	23.7	57.0	50.8	58.5
LN83-467	52.1	39.4	49.0	59.6	62.4	28.4	68.2	50.8	59.2
LN83-2324	50.8	42.6	53.5	40.2	59.5	24.9	63.3	61.0	61.3
LN83-2356	55.4	48.6	64.7	54.3	65.8	29.8	63.0	55.1	62.0
LS80-W6714	47.2	46.0	52.4	53.4	56.1	25.1	50.3	42.5	51.4
LS81-A5651	42.7	40.3	50.1	39.4	47.9	28.3	46.2	46.0	43.5
LS81-A6003	48.9	47.0	54.0	51.5	53.7	27.7	54.4	47.7	55.3
LS81-Ora729	40.0	42.4	43.3	25.2	39.2	27.8	46.4	45.8	49.6
LS82-A3223	43.7	40.8	42.0	48.3	40.7	25.7	54.3	43.7	53.8
S82-1111	46.4	42.0	52.9	51.7	55.2	21.3	60.7	35.2	52.4
S83-1004	51.2	44.8	58.4	61.3	60.0	30.0	59.6	48.2	47.6
S84-6484	51.0	35.4	60.9	57.1	54.7	24.1	64.3	52.8	58.5
V82-885	45.4	48.6	49.9	42.2	46.9	33.2	50.6	45.2	46.5
C.V. (%)		7.7	7.7	13.4	5.3	16.8	6.5	7.1	7.8
L.S.D. (5%)		6.7	8.7	12.6	6.2	5.9	8.8	7.2	9.1
Row Sp. (In.)		30	30	15	30	30	30	30	30
Rows/Plot		4	4	5	4	4	4	4	4
Reps		2	2	2	2	2	2	2	2

PRELIMINARY TEST IVA, 1986

YIELD RANK

Strain	Yield Rank	Carbon-dale IL	Eldorado IL	Sullivan IN	Manhattan KS	Lexington KY	Queens-town MD	Ripley OH	S. Charles-ton OH
Pyramid	19	19	17	6	17	10	9	24	20
Ripley	2	10	1	5	1	14	22	1	2
Chamberlain (III)	16	12	19	18	3	25	18	15	7
Morgan (IV)	11	14	20	11	8	18	14	6	3
K1125	13	11	15	10	5	16	17	8	9
K1126	4	1	9	8	12	5	2	11	11
K1127	9	4	6	15	13	11	23	3	10
KY82-0881	5	5	5	13	13	1	11	7	6
KY82-1313	7	15	8	14	9	21	13	9	1
KY82-1475	7	8	3	19	19	4	6	18	15
KY82-1482	3	7	11	2	7	2	4	12	16
LN82-1482	18	25	10	21	4	20	19	5	8
LN82-8699	15	19	13	3	15	23	12	13	13
LN83-467	6	23	23	4	5	8	1	13	12
LN83-2324	14	16	14	23	11	18	5	2	5
LN83-2356	1	2	2	9	2	7	6	4	4
LS80-W6714	20	9	18	12	15	17	21	23	20
LS81-A5651	24	22	21	24	22	9	25	19	25
LS81-A6003	17	6	12	17	21	13	15	17	17
LS81-Ora729	25	17	24	25	25	12	24	20	22
LS82-A3223	23	21	25	20	24	15	16	22	18
S82-1111	21	18	16	16	18	24	8	25	19
S83-1004	10	13	7	1	9	5	9	16	23
S84-6484	11	24	4	7	19	21	3	10	13
V82-885	22	2	22	22	23	3	20	21	24

PRELIMINARY TEST 1VA, 1986

MATURITY (Date)

Strain	Mean 8 Tests	Carbon-dale IL	Eldorado IL	Sullivan IN	Manhattan KS	Lexington KY	Queens-town MD	Ripley OH	S. Charles-ton OH
Pyramid	+1.9	0	+1	+2	+7	+1	+2	0	+2
Ripley	-5.4	0	-5	-3	-1	-19	-7	-7	-1
Chamberlain (III)	-8.6	0	-12	-7	-5	-19	-7	-12	-7
Morgan (IV)	9-25	9-23	9-15	9-20	10-7	9-29	9-30	9-17	9-26
K1125	-5.3	+1	-11	-4	-4	-5	-5	-7	-7
K1126	-4.1	0	-7	-2	-3	-7	-6	-6	-2
K1127	-5.8	0	-6	-2	-2	-21	-5	-7	-3
KY82-0881	-0.5	+2	-1	+2	-2	-3	0	-1	+2
KY82-1313	+0.8	0	-2	+2	+1	+1	+2	-1	+3
KY82-1475	+3.9	+3	+3	+1	+7	+5	+6	0	+6
KY82-1482	-0.9	0	-4	-2	+1	-3	+1	-1	+1
LN82-1482	-3.4	0	-4	-2	-3	-3	-6	-6	-3
LN82-8699	-4.4	0	-8	-2	-1	-7	-5	-6	-6
LN83-467	-5.6	0	-11	-7	-5	-3	-6	-7	-6
LN83-2324	-6.1	0	-11	-8	-5	-7	-6	-7	-5
LN83-2356	-2.1	+4	-9	-3	-1	+1	-2	-5	-2
LS80-W6714	+3.9	+4	+2	+2	+5	+7	+2	+2	+7
LS81-A5651	-1.0	0	-8	-1	0	+5	-1	-1	0
LS81-A6003	+2.1	+3	-2	+1	+4	+3	+3	+2	+3
LS81-Ora729	+1.0	0	0	-3	+1	+7	+2	-1	+2
LS82-A3223	-1.1	+1	+1	-3	-2	-2	-1	-3	0
S82-1111	+6.3	+8	+3	+1	+9	+9	+6	+5	+9
S83-1004	+2.5	+2	+2	+1	+7	+1	+4	+2	+1
S84-6484	-1.1	+1	-5	0	-1	+1	-2	-1	+2
V82-885	+2.4	+2	+4	+2	0	+3	+1	0	+7
Dated Planted	5-16	5-24	5-2	5-9	6-2	5-21	5-29	5-2	5-5
Days to Mature	132	122	136	134	127	131	124	138	144

PRELIMINARY TEST IVA, 1986

LODGING (Score)

Strain	Mean 8 Tests	Carbon-dale IL	Eldorado IL	Sullivan IN	Manhattan KS	Lexington KY	Queens-town MD	Ripley OH	S. Charles-ton OH
Pyramid	2.4	1.3	1.7	2.3	3.0	2.5	2.8	3.7	2.2
Ripley	1.2	1.0	1.1	1.0	1.0	1.5	1.0	1.2	1.8
Chamberlain (III)	2.1	1.3	2.0	1.8	2.0	1.8	2.3	3.1	2.8
Morgan (IV)	2.0	1.3	1.5	1.5	3.0	1.8	2.0	2.2	2.5
K1125	2.1	1.5	2.2	2.0	2.0	2.5	2.3	1.8	2.8
K1126	1.6	1.5	1.1	1.0	2.0	2.0	2.3	1.1	2.2
K1127	1.6	1.5	1.3	1.0	2.0	1.5	2.0	1.4	1.8
KY82-0881	1.8	1.5	1.2	1.0	1.5	2.5	2.0	2.3	2.2
KY82-1313	1.9	1.3	1.2	1.3	2.0	2.0	2.8	1.8	2.5
KY82-1475	1.8	1.8	1.4	1.3	2.0	1.8	2.0	2.3	2.0
KY82-1482	1.9	1.5	1.2	1.5	2.0	2.3	2.0	1.8	2.5
LN82-1482	1.3	1.0	1.2	1.0	1.0	1.5	2.0	1.3	1.2
LN82-8699	1.2	1.0	1.1	1.0	1.0	1.0	2.0	1.3	1.5
LN83-467	2.5	2.3	3.1	2.5	2.0	2.8	2.5	2.3	2.8
LN83-2324	1.5	1.0	1.3	1.0	1.0	1.5	2.0	1.5	2.8
LN83-2356	1.8	1.3	1.3	1.3	2.0	2.0	2.3	2.0	2.2
LS80-W6714	2.3	1.8	1.3	1.5	3.0	2.3	2.8	3.1	2.8
LS81-A5651	2.4	1.3	1.6	1.8	2.5	2.8	2.3	3.5	3.0
LS81-A6003	2.3	2.0	1.3	1.5	2.0	2.8	2.5	3.5	2.5
LS81-Ora729	2.5	1.3	1.6	1.0	3.0	3.8	2.8	3.6	3.2
LS82-A3223	2.2	1.3	1.7	1.8	3.0	3.0	2.0	2.2	2.8
S82-1111	3.0	2.8	2.4	1.8	4.0	3.5	2.5	3.7	3.5
S83-1004	2.3	1.5	1.6	2.3	3.5	2.3	2.0	2.8	2.5
S84-6484	1.7	1.5	1.3	1.0	1.0	2.0	2.8	1.5	2.5
V82-885	1.7	1.5	1.2	1.0	2.0	1.5	2.0	1.8	2.3

PRELIMINARY TEST IVA, 1986

PLANT HEIGHT (Inches)

Strain	Mean 8 Tests	Carbon-dale IL	Eldorado IL	Sullivan IN	Manhattan KS	Lexington KY	Queens-town MD	Ripley OH	S. Charles-ton OH
Pyramid	43	38	44	43	53	38	40	46	41
Ripley	23	16	21	23	22	21	21	29	29
Chamberlain (III)	39	37	37	37	49	34	37	40	40
Morgan (IV)	40	37	39	36	51	34	36	43	41
K1125	39	37	34	38	49	37	39	41	40
K1126	37	34	37	37	46	30	34	41	39
K1127	37	37	38	37	44	30	32	39	38
KY82-0881	39	37	42	36	43	35	37	41	40
KY82-1313	38	35	37	35	47	33	38	41	41
KY82-1475	40	37	40	38	42	36	36	44	45
KY82-1482	41	37	38	43	48	36	36	46	42
LN82-1482	35	27	34	35	43	32	31	37	40
LN82-8699	37	31	35	37	47	30	36	35	43
LN83-467	38	38	37	39	43	33	37	40	40
LN83-2324	36	33	34	32	40	33	34	41	38
LN83-2356	37	32	36	38	42	34	31	41	40
LS80-W6714	43	40	43	45	51	36	40	41	46
LS81-A5651	45	42	48	41	54	40	46	50	42
LS81-A6003	43	40	43	42	49	36	46	49	40
LS81-Ora729	41	37	43	33	50	38	43	42	43
LS82-A3223	46	42	47	46	52	34	48	50	46
S82-1111	46	40	45	42	54	40	49	52	46
S83-1004	41	35	42	42	47	35	40	46	40
S84-6484	38	35	37	39	44	31	37	40	38
V82-885	38	39	41	36	44	32	33	42	36

PRELIMINARY TEST IVA, 1986

SEED QUALITY (Score)

Strain	Mean 7 Tests	Carbon-dale IL	Eldorado IL	Sullivan IN	Manhattan KS	Lexington KY	Queens-town MD	Ripley OH	S. Charles-ton OH
Pyramid	2.0	2.0	3.5	1.0	3.0	2.0	1.3	1.5	
Ripley	1.3	1.0	1.5	1.5	2.0	1.0	1.0	1.0	
Chamberlain (III)	2.4	2.0	3.5	2.0	2.0	3.0	2.3	2.0	
Morgan (IV)	1.9	1.0	3.0	1.5	2.0	2.0	1.0	2.5	
K1125	1.6	1.0	3.0	1.0	2.0	2.0	1.0	1.3	
K1126	1.5	1.0	2.3	1.0	2.0	2.0	1.0	1.3	
K1127	1.5	1.0	2.3	1.0	2.0	2.0	1.3	1.0	
KY82-0881	2.2	1.0	3.3	1.5	2.0	4.0	1.3	2.0	
KY82-1313	3.0	2.0	3.5	1.5	3.0	4.0	3.5	3.3	
KY82-1475	1.9	1.0	2.8	1.0	2.0	3.0	1.8	1.8	
KY82-1482	1.6	1.0	2.3	1.0	2.0	3.0	1.0	1.0	
LN82-1482	2.1	2.0	3.8	1.0	2.0	3.0	1.0	2.0	
LN82-8699	1.5	1.0	3.0	1.5	1.0	2.0	1.0	1.0	
LN83-467	1.4	1.0	2.8	1.0	1.0	2.0	1.0	1.0	
LN83-2324	1.9	1.0	2.8	1.5	2.0	2.0	2.0	2.0	
LN83-2356	1.7	1.0	2.8	1.0	2.0	2.0	2.0	1.3	
LS80-W6714	2.1	2.0	2.5	1.5	2.0	3.0	1.5	2.0	
LS81-A5651	1.7	1.0	3.0	1.0	2.0	2.0	1.5	1.3	
LS81-A6003	1.7	1.0	2.3	1.0	2.0	2.0	1.0	2.3	
LS81-Ora729	2.1	1.0	3.0	1.5	3.0	3.0	1.5	1.5	
LS82-A3223	1.9	1.0	2.8	1.0	2.0	4.0	1.0	1.3	
S82-1111	2.3	1.0	2.8	1.0	2.0	4.0	2.0	3.3	
S83-1004	1.7	1.0	2.3	1.5	2.0	2.0	1.3	1.5	
S84-6484	2.2	1.0	3.3	1.0	3.0	3.0	1.8	2.5	
V82-885	1.7	1.0	1.8	1.0	2.0	3.0	1.8	1.5	

PRELIMINARY TEST IVA, 1986

SEED SIZE (g/100)

Strain	7 Mean Tests	Carbon-dale IL	Eldorado IL	Sullivan IN	Manhattan KS	Lexington KY	Queens-town MD	Ripley OH	S. Charles-ton OH
Pyramid	14.4	14.9	12.4	13.3	14.9	16.1	15.3	14.2	
Ripley	13.0	15.1	12.9	12.5	15.2	8.6	13.3	13.6	
Chamberlain (III)	17.1	19.2	15.2	16.5	21.2	12.2	18.5	17.0	
Morgan (IV)	16.8	17.5	16.0	15.5	20.9	13.5	17.2	16.9	
K1125	16.1	17.7	14.7	15.5	17.4	15.2	16.1	15.8	
K1126	14.0	15.3	12.0	13.5	15.6	12.6	14.7	14.2	
K1127	13.0	14.2	12.3	13.3	15.1	6.7	14.8	14.3	
KY82-0881	14.9	16.0	13.5	13.4	15.9	14.8	16.1	14.6	
KY82-1313	17.8	17.7	15.3	16.3	21.4	17.3	18.4	18.2	
KY82-1475	15.3	15.8	14.9	13.2	15.6	15.5	17.3	14.8	
KY82-1482	14.8	15.4	14.1	13.9	16.3	13.4	15.6	15.2	
LN82-1482	16.3	16.7	15.3	15.0	19.5	14.1	17.5	16.3	
LN82-8699	15.1	15.0	13.5	13.9	16.9	14.7	17.3	14.5	
LN83-467	14.6	15.0	12.9	13.4	16.4	13.8	15.4	15.5	
LN83-2324	16.8	17.6	14.9	16.5	18.3	15.8	18.1	16.3	
LN83-2356	19.3	20.9	17.9	17.6	21.1	18.5	20.3	18.9	
LS80-W6714	17.4	17.2	15.2	16.3	20.0	16.7	18.4	17.7	
LS81-A5651	14.7	15.0	12.8	12.6	16.3	14.9	16.5	14.8	
LS81-A6003	15.1	15.1	13.1	14.3	16.3	15.5	16.3	14.9	
LS81-Ora729	14.3	14.3	12.4	12.3	15.8	15.6	15.7	14.2	
LS82-A3223	14.0	15.4	12.3	14.0	15.2	11.0	15.9	14.1	
S82-1111	15.7	15.7	14.5	13.2	19.1	15.0	16.7	15.6	
S83-1004	13.0	12.9	11.0	12.0	14.7	13.9	14.1	12.7	
S84-6484	16.6	16.2	15.8	15.0	17.4	17.5	17.1	17.1	
V82-885	12.4	12.1	11.2	10.4	12.8	15.4	12.9	12.3	

PRELIMINARY TEST IVA, 1986

PROTEIN (%)

Strain	Mean 5 Tests	Eldorado,IL	Sullivan,IN	Manhattan,KS	Kexington,KY	Ripley,OH
Pyramid	40.1	40.0	40.6	38.8	42.0	39.3
Ripley	38.9	37.2	39.3	38.0	40.9	39.3
LN80-8478 (III)	40.9	39.9	41.7	40.4	41.7	40.9
Chamberlain (III)	43.5	42.1	42.8	42.8	46.6	43.1
Morgan (IV)	40.0	39.7	40.2	39.4	41.1	39.5
K1126	41.1	40.4	42.3	40.1	41.2	41.3
K1127	42.2	42.6	41.8	41.0	43.7	42.1
KY82-0881	40.7	41.4	40.9	40.2	41.6	39.6
KY82-1313	41.5	40.8	41.3	41.2	44.3	40.0
KY82-1475	42.4	41.3	42.7	41.7	44.4	42.0
KY82-1482	41.8	42.3	43.2	40.7	42.7	40.3
LN82-1482	39.9	41.0	40.5	38.6	40.6	39.0
LN82-8699	40.5	40.3	40.2	39.4	42.6	39.9
LN83-467	42.1	41.8	43.1	41.3	42.6	41.5
LN83-2324	41.7	41.4	42.1	40.6	42.9	41.5
LN83-2356	42.6	42.8	42.6	41.7	42.6	43.1
LS80-W6714	41.4	40.6	42.1	40.5	42.3	41.6
LS81-A5651	40.5	40.6	41.4	38.7	42.0	40.0
LS81-A6003	40.7	40.2	41.8	39.7	41.7	40.0
LS81-Ora729	39.5	39.3	39.7	37.5	42.0	38.8
LS82-A3223	41.5	39.2	42.3	41.0	45.0	40.0
S82-1111	40.7	40.6	39.9	39.8	44.1	38.9
S83-1004	41.8	40.5	42.1	41.8	43.2	41.5
S84-6484	42.6	42.0	41.2	41.5	46.2	42.0
V82-885	42.3	42.7	43.0	39.9	44.4	41.5

PRELIMINARY TEST IVA, 1986

OIL (%)

Strain	Mean 5 Tests	Eldorado,IL	Sullivan,IN	Manhattan,KS	Lexington,KY	Ripley,OH
Pyramid	20.2	20.7	19.8	20.2	19.6	20.6
Ripley	21.2	23.1	21.4	20.5	19.7	21.2
LN80-8478	21.1	22.4	20.9	20.8	20.1	21.1
Chamberlain (III)	20.4	21.4	19.9	20.2	19.7	20.9
Morgan (IV)	20.9	22.1	21.2	20.3	20.4	20.7
K1126	20.6	21.7	19.9	20.1	20.0	21.2
K1127	19.9	21.4	20.4	19.8	17.1	20.6
KY82-0881	20.7	21.8	20.3	19.9	20.6	20.8
KY82-1313	21.6	22.2	20.8	20.5	22.5	21.9
KY82-1475	20.9	22.0	20.0	19.9	21.4	21.1
KY82-1482	20.8	21.1	20.1	20.2	21.2	21.2
LN82-1482	21.9	23.3	21.7	21.1	20.8	22.6
LN82-8699	20.1	21.5	19.4	19.7	18.8	21.1
LN83-467	21.1	22.9	20.4	20.0	20.3	21.8
LN83-2324	21.7	23.4	21.3	21.7	20.4	21.9
LN83-2356	21.5	23.3	20.9	21.1	20.6	21.8
LS80-W6714	21.2	22.9	20.4	21.2	20.8	20.6
LS81-A5651	20.7	21.5	20.6	20.6	19.5	21.1
LS81-A6003	20.9	22.0	20.3	21.0	19.9	21.4
LS81-Ora729	21.4	23.0	20.8	21.4	20.2	21.5
LS82-A3223	20.4	22.2	20.0	19.7	19.5	20.6
S82-1111	21.6	22.8	21.1	21.1	21.7	21.4
S83-1004	19.9	21.5	19.7	19.9	18.7	19.7
S84-6484	20.8	21.8	21.0	20.3	20.0	20.8
V82-885	19.8	21.0	19.0	20.0	19.3	19.9

Preliminary Test IVB, 1986

Strain	Parentage	Generation Composited
LN80-8478 (III)	A76-304020 X Land O'Lakes Max	F4
Md79-5043 (IV)	Union X Miles	F5
C1692	A77-314013 X L73-4673	F5
L83-8567	Williams 82 X L78-4245	F5
Md83-1210	A75-305022 X Elf	F5
Md83-2048	BSR 301 X Essex	F6
Ripley	Hodgson X V68-1034	F5
HC82-3406	Essex X Hobbit	F5
HC82-5519	Essex X Hobbit	F5
HC82-5765	Essex X Hobbit	F5
HC82-5934	Hobbit X A76-304020	F5
HC82-6195	Sprite X L76-0022	F5
HC82-6267	L74D-634 X Hobbit	F5
HC82-6270	L74D-634 X Hobbit	F5
HC82-6415	Hodgson X Sprite	F5
HC82-6529	L74D-634 X Hobbit	F5
HC82-6779	H75-5605 X Sprite	F5
HC82-7462	Essex X Sprite	F5
HC82-8038	Essex X Sprite	F5
HC83-2817	HC76-3840 X Williams 82	F5
HC83-4522	L74D-634 X Hobbit	F5
HC83-4589	L74D-634 X Hobbit	F5
L83-3819	L78-8694 X L78L-449	F6
LN82-2688	Sprite X L75-3632	F5
LN83-1197	A78-125029 X HC76-4030	F4

PRELIMINARY TEST IVB, 1986

DESCRIPTIVE AND DISEASE DATA

Strain	Descriptive Code		Shattering Score		BSR	
			Eldorado	Manhattan	Plant N %	Stem N %
Chamberlain (III)	PTBSYB1	I	2	1	90	51.9
Morgan (IV)	WTTDYB1	I	1	1	100	74.4
C1692	WTTDYGr	I	1	1	100	83.2
L83-8567	WTTDYBr	I	1	1	100	71.1
MD83-1210	PTBDYBr	I	1	1	100	86.2
MD83-2048	PTTDYBr	I	1	1	90	56.9
Ripley	PGTSYB1	D	1	1	100	96.5
HC82-3406	PTBSYB1	D	1.5	1	100	96.8
HC82-5519	P+WTTSYB1	D	1	2	100	83.4
HC82-5765	PTTDYB1	D	2	1	100	97.5
HC82-5934	PTTDYB1	D	1	1	100	85.9
HC82-6195	WTTDYB1	D	1	1	100	97.9
HC82-6267	WTTSYB1	D	1	1	100	100
HC82-6270	WTTDYB1	D	1	1	100	96.1
HC82-6415	WGBDYBf	D	2	1	100	96.8
HC82-6529	WTTSYB1	D	1	1	100	93.1
HC82-6779	WTTDYB1	D	1	1	100	95.7
HC82-7462	WTTDYB1	D	1	1	100	92.7
HC83-8038	WTTDYB1	D	1	1	100	93.4
HC83-2817	WTTSYBr	D	1	1	100	95.1
HC83-4522	P+WTTDYB1	D	1.5	1	100	92
HC83-4589	WTTDYB1	D	1	1	100	97.7
L83-3804	PGTDYIb	D	2	2	100	77.5
LN82-2688	PTTDYBr	D	1	-	100	99.2
LN83-[illegible]	P+BDYB1	D	1	-	90	80.7

PRELIMINARY TEST IVB, 1986

DISEASE DATA

	PR	PS	PSB	SMV
	Vickery	Lafayette		
Strain	Tolerance Score	a %	a %	a Score
Chamberlain (III)	2.7	9	34	5S
Morgan (IV)	3.0	18	56	5E
C1692	3.1	29	72	5M
L83-8567	2.3	36	40	5M
MD83-1210	2.9	25	46	1
MD83-2048	3.5	10	34	1
Ripley	2.7	2	14	3M
HC82-3406	3.6	10	42	1
HC82-5519	3.4	5	38	5E
HC82-5765	3.4	2	54	1
HC82-5934	2.8	7	30	1
HC82-6195	3.4	13	42	5E
HC82-6267	2.7	21	48	1
HC82-6270	2.6	8	42	1
HC82-6415	2.9	22	14	1
HC82-6529	2.8	16	38	1
HC82-6779	2.8	9	32	1
HC82-7462	2.8	16	14	1
HC83-8038	2.6	23	24	1
HC83-2817	3.1	9	42	1
HC83-4522	3.2	10	38	1
HC83-4589	3.0	12	46	1
L83-3804	2.9	0	12	1
LN82-2688	3.0	15	54	5E
LN83-1197	3.1	8	44	3M

PRELIMINARY TEST IVB, 1986

Regional Summary

Strain No. of Tests	Yield 8 bu/a	Rank 8 No.	Maturity 8 Date	Lodging 8 Score	Plant Height 8 In	Seed Quality 7 Score	Seed Size 7 g/100	Composition Protein 5 %	Oil 5 %
Chamberlain (III)	50.5	5	-8.8	2.4	40	2.1	17.0	40.9	20.7
Morgan (IV)	53.4	1	9-23.8*	2.3	40	2.0	17.1	42.5	20.5
C1692	51.0	4	-5.9	2.0	39	1.8	17.0	40.6	21.7
L83-8567	48.8	7	-4.4	2.4	39	2.5	17.1	41.1	22.0
MD83-1210	48.6	8	+2.6	1.7	40	2.1	16.4	42.0	20.5
MD83-2048	52.9	2	-7.3	1.5	36	1.5	13.8	40.1	21.7
Ripley	51.7	3	-5.9	1.5	22	1.3	12.8	39.0	21.3
HC82-3406	37.7	24	-7.9	1.1	19	2.2	14.7	41.3	21.4
HC82-5519	44.9	16	-6.6	1.1	21	1.8	14.9	40.9	21.6
HC82-5765	45.9	13	-7.0	1.1	18	1.6	13.3	40.1	21.9
HC82-5934	47.9	10	-8.1	1.1	20	1.8	16.1	41.0	20.4
HC82-6195	46.7	11	-9.0	1.2	21	1.7	15.6	42.0	21.5
HC82-6267	45.1	14	+7.0	1.2	20	1.4	16.5	40.4	21.5
HC82-6270	45.0	15	+7.0	1.1	20	1.4	16.2	40.6	21.5
HC82-6415	44.8	17	-5.8	1.3	20	2.1	15.4	41.9	21.6
HC82-6529	44.1	18	+5.5	1.2	20	1.6	15.5	40.7	21.4
HC82-6779	46.3	12	-7.5	1.2	22	1.8	15.5	40.3	21.1
HC82-7462	41.2	21	-7.4	1.2	19	1.6	15.0	43.2	21.1
HC83-8038	41.7	20	-5.1	1.2	19	1.6	15.8	42.2	21.6
HC83-2817	42.9	19	-5.8	1.5	19	1.9	15.5	40.5	21.4
HC83-4522	36.8	25	-9.4	1.2	18	1.7	15.5	41.1	21.4
HC83-4589	48.1	9	-9.3	1.2	21	1.6	15.8	42.0	21.1
L83-3819	50.2	6	-9.9	1.5	28	1.9	16.8	41.3	20.4
LN82-2688	40.5	22	-7.6	1.2	18	1.8	16.0	41.4	21.2
LN83-1197	38.8	23	-7.6	1.3	19	1.7	15.3	41.4	21.9

* 132 Days after planting.

PRELIMINARY TEST IVB, 1986

YIELD (bu/a)

Strain	Mean 8 Tests	Carbon-dale IL	Eldorado IL	Sullivan IN	Manhattan KS	Lexington KY	Queens-town MD	Ripley OH	S.Charles-ton OH
Chamberlain (III)	50.5	47.6	51.3	55.1	62.4	22.7	48.5	47.9	68.5
Morgan (IV)	53.4	48.6	55.8	53.5	63.4	31.3	59.0	56.8	58.9
C1692	51.0	50.8	54.4	43.9	65.3	30.2	51.6	51.4	60.5
L83-8567	48.8	41.9	52.4	65.1	51.8	27.6	39.1	50.5	61.6
MD83-1210	48.6	49.5	58.5	47.2	56.1	25.7	50.6	41.6	59.6
MD83-2048	52.9	52.8	50.6	51.7	62.9	33.3	57.9	44.4	69.4
Ripley	51.7	53.0	57.2	47.0	60.5	29.4	55.1	53.4	57.9
HC82-3406	31.7	37.3	33.7	20.1	56.1	23.5	46.1	33.6	50.8
HC82-5519	44.9	42.2	44.7	34.7	58.1	26.9	49.8	48.3	54.5
HC82-5765	45.9	40.0	42.3	45.9	60.5	32.1	42.1	44.4	60.0
HC82-5934	47.9	38.2	55.3	50.2	62.0	24.2	45.4	49.4	58.4
HC82-6195	46.7	43.3	44.0	49.1	61.0	21.8	51.5	42.4	60.2
HC82-6267	45.1	43.3	37.4	39.1	60.0	37.3	47.8	42.5	53.3
HC82-6270	45.0	46.7	32.3	35.2	62.4	34.5	54.5	39.1	55.5
HC82-6415	44.8	39.3	38.6	33.6	63.4	26.2	45.9	57.7	54.0
HC82-6529	44.1	47.8	35.4	31.8	61.0	32.8	48.5	40.3	55.0
HC82-6779	46.3	42.5	49.0	50.1	55.7	22.5	62.2	39.7	58.4
HC82-7462	41.2	41.2	32.2	36.5	64.9	28.2	35.2	34.8	56.2
HC83-8038	41.7	25.8	32.3	41.1	54.7	25.0	39.1	41.4	64.0
HC83-2817	42.9	46.8	35.2	28.5	59.5	24.5	46.6	44.9	57.3
HC83-4522	36.8	33.3	32.0	16.6	54.2	26.0	36.6	44.5	51.1
HC83-4589	48.1	45.7	52.4	49.8	62.9	21.9	41.9	51.2	59.2
L83-3819	50.2	46.9	59.3	56.1	59.5	27.3	47.5	47.6	57.7
LN82-2688	40.5	25.0	33.0	42.0	64.9	28.7	40.7	36.0	53.5
LN83-1197	38.8	26.1	32.3	34.4	51.8	30.6	37.6	40.1	57.8
C.V. (%)		10.7	16.0	13.4	5.2	11.8	12.5	11.6	8.1
L.S.D. (5%)		9.1	14.5	12.6	6.4	4.3	12.4	10.5	9.8
Row Sp. (In.)		30	30	15	30	30	30	30	30
Rows/Plot		4	4	5	4	4	4	4	4
Reps		2	2	2	2	2	2	2	2

PRELIMINARY TEST IVB, 1986

YIELD RANK

Strain	Yield Rank	Carbon-dale IL	Eldorado IL	Sullivan IN	Manhattan KS	Lexington KY	Queens-town MD	Ripley OH	S.Charles-ton OH
Chamberlain (III)	5	7	9	5	8	22	10	9	2
Morgan (IV)	1	5	4	3	4	6	1	2	10
C1692	4	3	6	13	1	8	6	4	5
L83-8567	7	16	7	1	24	12	21	6	4
MD83-1210	8	4	2	10	19	17	8	17	8
MD83-2048	2	2	10	4	6	3	2	13	1
Ripley	3	1	3	11	13	9	3	3	13
HC82-3406	24	21	19	24	19	21	15	25	25
HC82-5519	16	15	12	19	18	14	9	8	20
HC82-5765	13	18	14	12	13	5	18	13	7
HC82-5934	10	20	5	6	10	20	17	7	11
HC82-6195	11	12	13	9	11	25	7	16	6
HC82-6267	14	12	16	16	15	1	12	15	23
HC82-6270	15	10	21	18	8	2	4	21	18
HC82-6415	17	19	15	21	4	15	16	1	21
HC82-6529	18	6	17	22	11	4	10	19	19
HC82-6779	12	14	11	7	21	23	5	21	11
HC82-7462	21	17	24	17	2	11	25	24	17
HC83-8038	20	22	21	15	22	18	21	18	3
HC83-2817	19	9	18	23	16	19	14	12	16
HC83-4522	25	23	25	25	23	16	24	11	24
HC83-4589	9	11	7	8	6	24	19	5	9
L83-3819	6	8	1	2	16	13	13	10	15
LN82-2688	22	25	20	14	2	10	20	23	22
LN83-1197	23	24	21	20	24	7	23	20	14

PRELIMINARY TEST IVB, 1986

MATURITY (Date)

Strain	Mean 8 Tests	Carbon-dale IL	Eldorado IL	Sullivan IN	Manhattan KS	Lexington KY	Queens-town MD	Ripley OH	S. Charles-ton OH
Chamberlain (III)	-8.8	-3	-12	-7	-9	-11	-9	-12	-7
Morgan (IV)	9-23.8	9-26	9-14	9-20	10-10	9-26	10-1	9-18	9-25
C1692	-5.9	-3	-10	-3	-4	-12	-4	-8	-3
L83-8567	-4.4	-3	-7	-2	-6	-4	-6	-6	-1
MD83-1210	+2.6	-1	+4	+1	+3	+10	+2	+1	+3
MD83-2048	-7.3	-3	-10	-6	-7	-11	-8	-12	-1
Ripley	-5.9	-3	-4	-7	-6	-9	-8	-9	-1
HC82-3406	-7.9	-3	-5	-4	-6	-12	-11	-13	-9
HC82-5519	-6.6	-3	-4	-5	-5	-13	-7	-10	-6
HC82-5765	-7.0	-3	-8	-6	-4	-12	-8	-11	-4
HC82-5934	-8.1	-3	-8	-6	-8	-9	-8	-14	-9
HC82-6195	-9.0	-3	-11	-6	-7	-13	-9	-15	-8
HC82-6267	+7.0	+7	+14	+2	+11	+10	+8	+1	+3
HC82-6270	+7.0	+7	+12	+2	+10	+12	+8	+1	+4
HC82-6415	-5.8	-3	-5	-5	-3	-9	-5	-10	-6
HC82-6529	+5.5	+7	+12	-1	+8	+10	+8	+1	+1
HC82-6779	-7.5	-3	-4	-2	-5	-14	-10	-14	-8
HC82-7462	-7.4	-3	-5	-6	-3	-18	-6	-11	-7
HC83-8038	-5.1	-1	-4	-5	-4	-11	-7	-8	-1
HC83-2817	-5.8	-3	-2	-4	-3	-11	-8	-9	-6
HC83-4522	-9.4	-3	-8	-7	-7	-20	-9	-13	-8
HC83-4589	-9.3	-3	-9	-7	-4	-20	-7	-16	-8
L83-3819	-9.9	-3	-12	-5	-16	-14	-14	-13	-2
LN82-2688	-7.6	-3	-4	-5	-4	-20	-9	-8	-8
LN83-1197	-7.6	-3	-5	-6	-9	-12	-10	-12	-4
Date Planted	5-15	5-24	5-2	5-9	6-2	5-21	5-29	4-30	5-5
Days to Mature	133	125	135	134	130	128	125	141	143

PRELIMINARY TEST IVB, 1986

LODGING (Score)

Strain	Mean 8 Tests	Carbon-dale IL	Eldorado IL	Sullivan IN	Manhattan KS	Lexington KY	Queens-town MD	Ripley OH	S.Charles-ton OH
Chamberlain (III)	2.4	1.3	2.3	1.8	2.0	3.0	2.5	2.0	4.0
Morgan (IV)	2.3	1.3	1.5	1.5	3.0	2.8	2.3	2.5	3.5
C1692	2.0	1.5	1.2	1.3	2.0	2.5	2.5	1.7	3.5
L83-8567	2.4	1.0	2.3	3.3	2.0	2.5	2.3	1.9	3.8
MD83-1210	1.7	1.5	1.2	1.3	1.0	1.8	2.0	2.2	2.2
MD83-2048	1.5	1.0	1.1	1.0	1.0	2.3	2.0	1.3	2.5
Ripley	1.5	1.0	1.1	1.0	1.0	2.3	1.3	1.2	3.0
HC82-3406	1.1	1.0	1.0	1.0	1.0	1.3	1.0	1.0	1.2
HC82-5519	1.1	1.0	1.0	1.0	1.0	1.5	1.0	1.1	1.5
HC82-5765	1.1	1.0	1.0	1.0	1.0	1.3	1.0	1.1	1.2
HC82-5934	1.1	1.0	1.1	1.0	1.0	1.3	1.0	1.1	1.5
HC82-6195	1.2	1.0	1.0	1.0	1.0	1.3	1.0	1.0	2.0
HC82-6267	1.2	1.0	1.0	1.0	1.0	1.8	1.0	1.1	1.5
HC82-6270	1.1	1.0	1.0	1.0	1.0	1.5	1.3	1.1	1.2
HC82-6415	1.3	1.0	1.1	1.0	1.0	1.3	1.0	1.1	2.8
HC82-6529	1.2	1.0	1.0	1.0	1.0	1.5	1.0	1.0	2.0
HC82-6779	1.2	1.0	1.0	1.0	1.0	2.0	1.0	1.0	1.8
HC82-7462	1.2	1.0	1.0	1.0	1.0	1.5	1.0	1.0	2.0
HC83-8038	1.2	1.0	1.0	1.0	1.0	1.5	1.0	1.0	1.8
HC83-2817	1.5	1.0	1.1	1.0	1.5	2.7	1.0	1.1	2.5
HC83-4522	1.2	1.0	1.0	1.0	1.0	1.5	1.0	1.0	1.2
HC83-4589	1.2	1.0	1.0	1.0	1.0	2.0	1.0	1.1	1.8
L83-3819	1.5	1.0	1.8	1.0	1.0	2.5	1.0	1.2	2.5
LN82-2688	1.2	1.0	1.1	1.0	1.0	1.5	1.0	1.1	2.2
LN83-1197	1.3	1.0	1.0	1.0	1.0	1.5	1.3	1.2	2.0

PRELIMINARY TEST IVB, 1986

PLANT HEIGHT (Inches)

Strain	Mean 8 Tests	Carbon-dale IL	Eldorado IL	Sullivan IN	Manhattan KS	Lexington KY	Queens-town MD	Ripley OH	S.Charles-ton OH
Chamberlain (III)	40	37	38	37	46	35	38	44	41
Morgan (IV)	40	40	41	36	49	37	38	42	39
C1692	39	36	33	37	52	35	39	41	39
L83-8567	39	35	38	38	46	34	38	37	43
MD83-1210	40	39	38	39	45	37	40	43	39
MD83-2048	36	32	35	35	43	35	35	36	36
Ripley	22	17	20	20	23	24	19	25	29
HC82-3406	19	15	14	19	19	23	16	18	24
HC82-5519	21	15	18	17	23	26	17	21	27
HC82-5765	18	16	14	17	20	21	15	18	24
HC82-5934	20	18	18	18	19	23	15	24	28
HC82-6195	21	18	16	20	22	25	17	24	28
HC82-6267	20	15	15	15	24	21	17	22	27
HC82-6270	20	14	14	16	24	21	21	20	27
HC82-6415	20	17	17	17	20	22	16	26	23
HC82-6529	20	15	14	19	27	21	18	18	26
HC82-6779	22	17	17	21	22	26	20	25	24
HC82-7462	19	16	14	20	20	23	16	18	24
HC83-8038	19	16	17	18	21	22	14	19	24
HC83-2817	19	17	14	17	22	24	17	18	23
HC83-4522	18	16	13	16	20	25	15	18	24
HC83-4589	21	19	18	19	22	24	16	23	25
L83-3819	28	24	28	29	28	29	25	31	31
LN82-2688	18	14	14	19	20	23	18	16	22
LN83-1197	19	17	15	18	19	22	14	23	25

PRELIMINARY TEST IVB, 1985

SEED QUALITY (Score)

Strain	Mean 7 Tests	Carbon-dale IL	Eldorado IL	Sullivan IN	Manhattan KS	Lexington KY	Queens-town MD	Ripley OH	S. Charles-ton OH
Chamberlain (III)	2.1	1.0	4.0	2.0	2.0	1.0	2.5	2.0	
Morgan (IV)	2.0	1.0	3.3	1.5	3.0	2.0	1.0	2.0	
C1692	1.8	1.0	4.0	1.5	2.0	1.0	1.0	2.3	
L83-8567	2.5	1.0	4.0	1.5	2.0	3.0	2.0	4.0	
MD83-1210	2.1	1.0	3.8	1.5	2.0	3.0	1.0	2.5	
MD83-2048	1.5	1.0	3.0	1.0	1.0	2.0	1.3	1.0	
Ripley	1.3	1.0	1.5	1.5	2.0	1.0	1.0	1.0	
HC82-3406	2.2	2.0	4.0	1.0	3.0	2.0	1.3	1.8	
HC82-5519	1.8	1.0	3.0	1.0	3.0	2.0	1.5	1.3	
HC82-5765	1.6	1.0	2.8	1.0	3.0	2.0	1.3	1.0	
HC82-5934	1.8	1.0	2.8	1.0	3.0	2.0	1.5	1.0	
HC82-6195	1.7	1.0	3.5	1.5	-	2.0	1.3	1.0	
HC82-6267	1.4	1.0	2.0	1.5	1.0	2.0	1.0	1.3	
HC82-6270	1.4	1.0	2.0	1.0	1.0	3.0	1.0	1.0	
HC82-6415	2.1	2.0	4.3	1.5	-	2.0	1.8	1.3	
HC82-6529	1.6	1.0	2.0	1.5	2.0	3.0	1.0	1.0	
HC82-6779	1.8	1.0	3.8	1.5	2.0	2.0	1.3	1.3	
HC82-7462	1.6	1.0	3.3	1.0	-	2.0	1.3	1.0	
HC83-8038	1.6	1.0	3.0	1.0	2.0	2.0	1.0	1.0	
HC83-2817	1.9	1.0	3.5	1.0	3.0	2.0	1.3	1.5	
HC83-4522	1.7	1.0	3.5	1.5	2.0	1.0	1.5	1.5	
HC83-4589	1.6	1.0	2.8	1.0	2.0	2.0	1.1	1.0	
L83-3819	1.9	1.0	3.3	2.0	2.0	2.0	1.5	1.3	
LN82-2688	1.8	2.0	3.3	1.5	2.0	2.0	1.0	1.0	
LN83-1197	1.7	1.0	2.8	1.0	2.0	2.0	1.5	1.5	

PRELIMINARY TEST IVB, 1986

SEED SIZE (g/100)

Strain	Mean 7 Tests	Carbon-dale IL	Eldorado IL	Sullivan IN	Manhattan KS	Lexington KY	Queens-town MD	Ripley OH	S.Charles-ton OH
Chamberlain (III)	17.0	19.1	15.6	16.5	19.9	13.7	17.5	16.7	
Morgan (IV)	17.1	17.7	15.9	15.5	20.8	16.3	17.4	16.4	
C1692	17.0	18.8	16.0	15.6	20.6	13.5	17.9	16.7	
L83-8567	17.1	17.2	16.3	15.6	20.1	14.8	18.4	17.1	
MD83-1210	16.4	16.9	14.0	14.8	18.7	16.0	18.2	16.4	
MD83-2048	13.8	15.3	13.0	12.9	16.2	10.9	15.3	13.1	
Ripley	12.8	14.3	11.7	13.1	15.6	9.9	12.0	12.9	
HC82-3406	14.7	17.3	15.5	15.7	16.4	8.3	14.8	15.0	
HC82-5519	14.9	16.5	16.4	14.5	15.6	10.5	16.1	14.5	
HC82-5765	13.3	14.5	12.9	13.2	14.8	9.9	13.7	13.9	
HC82-5934	16.1	17.5	17.0	17.0	18.9	10.9	17.1	14.6	
HC82-6195	15.6	17.5	16.3	16.3	-	10.6	16.9	16.2	
HC82-6267	16.5	17.9	15.5	15.2	18.2	17.1	17.0	14.9	
HC82-6270	16.2	17.7	15.2	14.7	18.3	16.6	15.4	15.4	
HC82-6415	15.4	17.4	16.0	14.2	-	11.8	16.8	16.1	
HC82-6529	15.5	16.7	14.7	13.9	17.6	15.0	15.7	14.9	
HC82-6779	15.5	17.3	17.1	15.0	17.0	9.9	17.2	15.1	
HC82-7462	15.0	17.2	16.2	15.9	-	10.6	15.1	15.0	
HC83-8038	15.8	18.8	16.4	15.8	17.0	10.5	16.9	15.3	
HC83-2817	15.5	17.2	16.8	15.4	18.3	10.5	15.8	14.6	
HC83-4522	15.5	17.3	14.5	17.2	16.3	9.2	16.4	17.5	
HC83-4589	15.8	17.6	15.7	16.7	18.6	9.4	17.3	15.3	
L83-3819	16.8	18.0	17.6	17.9	17.5	12.1	17.5	16.8	
LN82-2688	16.0	17.8	16.9	16.1	17.7	11.4	16.1	16.2	
LN83-1197	15.3	17.3	15.9	16.3	15.6	11.6	15.6	14.9	

PRELIMINARY TEST IVB, 1986

PROTEIN (%)

Strain	Mean 5 Tests	Eldorado,IL	Sullivan,IN	Manhattan,KS	Lexington,KY	Ripley,OH
Chamberlain (III)	40.9	40.6	41.1	39.3	42.3	41.0
Morgan (IV)	42.5	43.1	42.4	41.8	42.8	42.2
Ci692	40.6	41.3	41.2	39.4	40.2	40.7
L83-8567	41.1	41.5	41.8	40.1	41.5	40.6
MD83-1210	42.0	41.2	43.4	40.5	43.6	41.2
MD83-2048	40.1	39.4	42.1	40.1	39.5	39.4
Ripley	39.0	38.9	38.8	37.7	40.7	38.8
HC82-3406	41.3	41.0	42.0	39.2	42.4	42.1
HC82-5519	40.9	41.1	41.0	39.0	41.0	42.5
HC82-5765	40.1	39.6	40.6	38.1	41.7	40.4
HC82-5934	41.0	39.8	42.4	38.8	43.1	41.0
HC82-6195	42.0	40.2	41.8	--	43.0	43.1
HC82-6267	40.4	39.5	40.7	40.2	40.6	41.1
HC82-6270	40.6	39.3	40.7	40.5	42.2	40.5
HC82-6415	41.9	41.5	42.1	--	43.4	40.5
HC82-6529	40.7	40.3	43.1	39.2	40.4	40.3
HC82-6779	40.3	39.3	41.8	38.1	42.0	40.2
HC82-7462	43.2	42.8	43.8	--	43.4	42.6
HC83-8038	42.2	41.8	44.0	40.2	43.7	41.5
HC83-2817	40.5	40.0	41.8	37.8	42.6	40.1
HC83-4522	41.1	40.9	43.2	39.3	41.8	40.5
HC83-4589	42.0	41.9	43.0	40.0	42.8	42.4
L83-3819	41.3	40.9	42.7	40.1	42.8	40.0
LN82-2688	41.4	40.4	42.3	40.0	42.8	41.5
LN83-1197	41.4	40.7	42.7	39.6	42.6	41.4

PRELIMINARY TEST IVB, 1986

OIL (%)

Strain	Mean 5 Tests	Eldorado, IL	Sullivan, IN	Manhattan, KS	Lexington, KY	Ripley, OH
Chamberlain (III)	20.7	22.4	20.2	20.4	19.4	21.0
Morgan (IV)	20.5	21.1	19.9	20.8	20.2	20.3
C1692	21.7	23.4	20.7	21.9	20.6	22.0
L83-8567	22.0	24.1	21.8	21.3	20.8	21.9
MD83-1210	20.5	22.1	19.6	20.4	20.0	20.6
MD83-2048	21.7	23.4	20.8	20.6	21.6	22.0
Ripley	21.3	22.9	21.7	20.8	19.1	21.9
HC82-3406	21.4	22.8	21.9	21.8	19.2	21.4
HC82-5519	21.6	23.2	22.2	21.5	20.0	21.2
HC82-5765	21.9	24.2	22.1	21.4	19.8	22.1
HC82-5934	20.4	22.3	20.1	20.4	18.4	21.0
HC82-6195	21.5	24.0	20.6	--	19.4	21.8
HC82-6267	21.5	23.6	20.7	20.7	21.5	20.9
HC82-6270	21.5	22.7	20.7	20.3	21.6	22.1
HC82-6415	21.6	23.3	20.8	--	20.2	22.2
HC82-6529	21.4	23.1	20.1	20.6	21.1	22.0
HC82-6779	21.1	23.2	20.1	21.2	19.4	21.5
HC82-7462	21.1	22.6	20.3	--	19.5	21.8
HC83-8038	21.6	24.0	20.5	21.2	20.0	22.5
HC83-2817	21.4	23.4	20.6	21.8	19.2	21.8
HC83-4522	21.4	23.5	20.9	21.2	19.1	22.5
HC83-4589	21.1	23.0	21.0	20.7	19.2	21.6
L83-~~3804~~ 3819	20.4	21.7	19.8	19.7	19.6	21.1
LN82-2688	21.2	23.2	20.6	20.7	19.5	22.0
LN83-1197	21.9	24.2	21.1	21.9	20.3	22.0