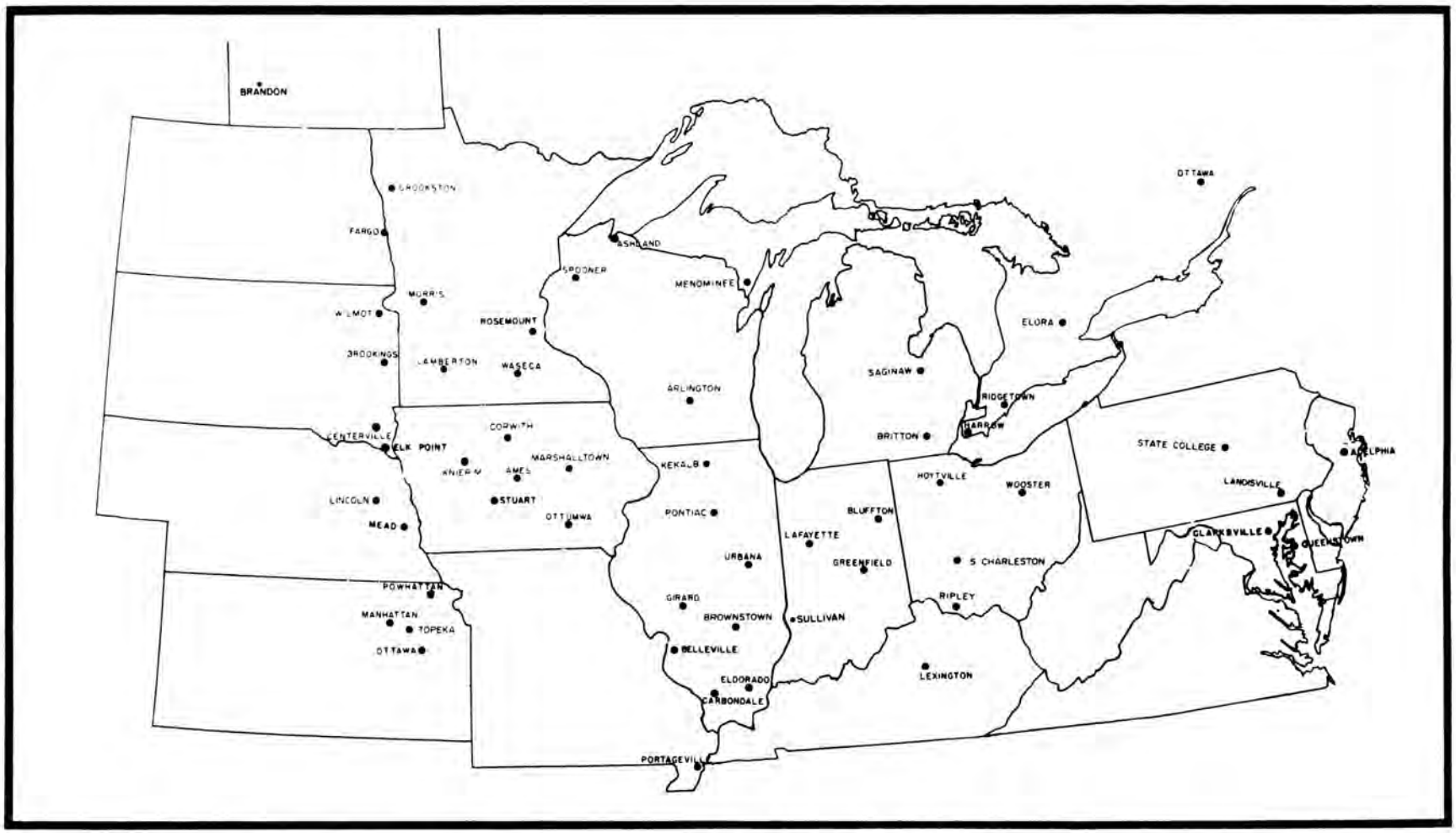

LOCATIONS OF UNIFORM SOYBEAN TESTS, NORTHERN STATES, 1982

THE UNIFORM SOYBEAN TESTS

NORTHERN STATES

1982

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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 of 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 6.

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 Statements or data in the report, therefore, should not be published unless permission has been obtained previously by those concerned.

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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 experiment 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	Forage 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)
K	Kansas A.E.S.
Ky	Kentucky A.E.S.
L	Illinois A.E.S. (L - R. L. Bernard, LN - C. D. Nickell, LS - O. Myers, LG - R. Nelson)
La	Louisiana A.E.S.
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 Introduction, Germplasm Resources Laboratory Beltsville, Md.
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.R.L.
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 - 1982

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 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	Portage	-2 to +6		Clay (0)
0	Evans	-5 to +3	McCall (00)	Hodgson 78 (I)
I	Hodgson 78	-3 to +5	Evans (0)	Corsoy 79 (II)
II	Corsoy 79	-3 to +5	Hardin (I)	Pella (III)
III	Cumberland	-5 to +3	Century (II)	Union (IV)
IV	Union	-3 to +8	Williams 79 (III)	

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, Shiney, Intermediate
5 = Seed Coat Color: Yellow, Gray, Light gray, Green
6 = Hilum Color: Black, Imperfect black, Brown, Buff, Gray, Tan, Yellow; prefixes indicate Light or Dark shades, e.g., Lbf = light buff, Dib = dark imperfect black.
7 = Stem termination: Determinate, Indeterminate, Semi-Determinate

Shattering is scored at a specified time after maturity and is based on estimates of the percent of open pods as follows:

1 No shattering
2 1% to 10% shattered
3 10% to 25% shattered
4 25% to 50% shattered
5 Over 50% shattered

Iron Chlorosis is rated from 1, no chlorosis, to 5, severe chlorosis.

Emergence Score is related to Hypocotyl elongation and 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 $\geq$ 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%	4-19%	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 glycines
BBV	Bud blight	Tobacco ringspot virus
BP	Bacterial pustule	Xanthomonas phaseoli var. sojensis
BS	Brown spot	Septoria glycines
BSR	Brown stem rot	Phialophora gregatum
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	Cercespora 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	Disporthe phaseolorum var. caulivora
SMV	Soybean mosaic	Soja virus 1
TS	Target spot	Corynespora cassilicola
WF	Wildfire	Pseudomonas tabaci
YMV	Yellow mosaic	Phaeseolus virus 2

Ratings for BB, BP, DM, FE_2, and PM were based on leaf symptoms; those for BSR on percent of plants with stem browning, or percent of stem length browned, and those for PR on seedling rotting and/or stunting. Tolerance ratings with PR races 1 and 3 present are: 1=none-trace dead plants; 2=up to 2% dead plants, no stunting or chlorosis; 3=up to 10% dead plants, slight stunting or chlorosis; 4=up to 50% dead plants, moderate stunting and chlorosis; 5=over 50% dead plants, severe stunting and chlorosis.

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 Agricultural Research, Science and Education Administration, U.S. Department of Agriculture. The tests are divided into those in the Northern States, for strains in maturity groups 00 to IV and those in the Southern States for strains in maturity groups V to VIII. Group IV maturity strains are divided into a IV N test for the northern states and a IV S test for the southern states.

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

Strains are evaluated for one year in the Preliminary Tests (PT) which are conducted at eight or more locations in several states. When the tests are completed, each public breeder is given an opportunity to review the results and to decide which strains merit further testing. In instances where there is little consensus among the breeders on the merits of a strain, the originator of the strain generally makes the final decision.

Strains that merit further testing are evaluated in the Uniform Tests (UT) conducted at more locations and with more replications than the PT. Lines developed by four or more backcrosses to a released cultivar may be entered directly in the UT without prior evaluation in the PT.

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

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

Where a decision has been made to multiply a strain for release, the originating institution will inform other UT participants of the decision by February 15. This will give each UT participant the opportunity to participate in the multiplication and release of the strains. By March 15 all institutions intending to participate in the multiplication of the strain must notify the originating institution of their intent. A final decision to participate in the release of the strain may be delayed until an additional year's data are available for review. By April 1 the originating institution should notify all UT participants what states will be participating in the multiplication and are considering participating in the release of the strain. Breeders seed is distributed to foundation seed organizations in participating states for production during the summer. At this time, if a final decision to release has been made, a sample of seed may be distributed to non-participants in the UT, including private soybean breeders, in accordance with a states experiment station policy, for use in making crosses. This distribution is made only by the originating institution.

A release notice to soybean seed producers listing all institutions participating in the release of the cultivar is prepared by the originating institutions. This notice is circulated for signature by all participating institutions. Assistance in the preparation and circulation of this release notice may be obtained from R. C. Leffel, Oilseed Specialist, National Program Staff, Room 304, Bldg. 005, Beltsville Agricultural Research Center West, Beltsville, Maryland, 20705. 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 reciewed 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 1982

Variety	Experimental Designation	Uniform Test Evaluations	Release date	Releasing States	Foundation Seed Production
BSR 201	A78-227013	UT II, 1980-1982, UP II, 1979	Aug. 16, 1982	Ia., Ill., Ind., Minn., S.D., Wisc.	1982
Maple Amber	OT80-1	UT 00, 1980-1982	Apr. 24, 1981	Canada	1981
Platte	U56355	UT II, 1980-1982, UP II, 1979	Sept. 1, 1982	Neb.	1982
Simpson	M70-153	UT 0, 1978-1981	Feb. 15, 1982	Minn., N.D., S.D., Wisc.	1981

UNIFORM TEST LOCATIONS - 1982

Location		Tests Conducted by	Uniform Tests						Preliminary Tests					
			OO	O	I	II	III	IV	I	IIA	IIB	IIIA	IIIB	IV
Ill.	Belleville	R. L. Bernard					x	x						
	Brownstown	C. D. Nickell					x	x						
	Carbondale	O. Meyers, Jr.						x						
	DeKalb	C. D. Nickell			x	x								
	Eldorado	R. L. Bernard					x	x						x
	Girard	"				x	x							
	Pontiac	C. D. Nickell				x	x							
	Urbana	"								x	x			
	"	R. L. Bernard				x	x					x	x	
Ind.	Greenfield	J. R. Wilcox				x	x	x						
	Lafayette	"			x	x	x	x		x	x	x	x	
	Sullivan	"					x	x						x
	Bluffton	"				x	x							
Ia.	Ames	W. R. Fehr				x				x	x			
	Corwith	"			x				x					
	Knierim	"			x				x					
	Marshalltown	"				x				x	x			
	Ottumwa	"					x							
	Stuart	"					x					x	x	
Kan.	Manhattan	W. T. Shapaugh, Jr.				x	x	x				x	x	x
	Ottawa	"						x						
	Powhattan	"					x	x						
	Topeka	"					x							
Ken.	Lexington	J. M. Wood					x	x				x	x	x
Man.	Brandon	R. I. Hamilton	x											
Md.	Clarksville	W. J. Kenworthy					x							
	Queenstown	& P. B. Creegan						x						x
Mich.	Britton	T. G. Isleib			x	x			x	x	x			
	Saginaw	"		x	x	x			x	x	x			
	Menominee	R. H. Leep	x											
Minn.	Crookston	J. W. Lambert	x											
	Lamberton	& J. H. Orf			x	x			x					
	Morris	"		x										
	Rosemount	"	x	x										
	Waseca	"			x	x			x					
Mo.	Portageville	S. Anand												
	Clay	"						x						x
	Loam	"						x						x
Neb.	Lincoln	J. H. Williams						x						
	Mead	"			x	x	x			x	x	x	x	

UNIFORM TEST LOCATIONS - 1982

Location	Tests Conducted by	Uniform Tests OO	O	I	II	III	IV	Preliminary Tests I	IIA	IIB	IIIA	IIIB	IV
N.J. Adelphia	J. R. Justin				x	x	x		x	x			
N.D. Fargo	D. A. Whited	x	x										
Ohio Hoytville	A. K. Walker				x	x			x	x	x	x	
S. Charleston	R. L. Cooper					x	x				x	x	
Wooster	A. K. Walker				x	x							
Ripley	R. L. Cooper					x	x						x
Ont. Harrow	R. I. Buzzell				x								
Ottawa	H. D. Voldeng	x	x										
Ridgetown	G. R. Ablett			x	x			x					
Elora	W. D. Beversdorf	x	x										
Penn. Landisville	J. O. Yocum & R. D. Brigham				x	x	x						
State College	O. E. Hatley			x	x								
Texas Lubbock	R. D. Brigham						x						
S.D. Brookings	J. J. Bonneman			x	x			x					
Centerville	"				x				x	x			
Elk Point	"					x					x	x	
Wilmot	"		x	x									
Wis. Arlington	E. T. Gritton			x	x			x	x	x			
Ashland	"	x											
Spooner	"		x										
No. Locations with agronomic data (x)		8	8	14	24	25	20	9	11	11	9	9	8
No. with seed composition data (x)		7	6	5	4	5	5	5	5	5	5	4	5

1982 Disease, Shattering, and Descriptive Data

Location	Test Conducted by	Test	U.T.	P.T.
Ill. Eldorado	R. L. Bernard	BB, BP	III, IV	IV
Girard	"	BP	II	
Urbana	R. L. Bernard and C. D. Nickell	BP,BSR,DM,Mottl.	II-IV	II,III
Carbondale	O. Myers, Jr.	Shattering	IV	
Ind. Lafayette	K. L. Athow and F. A. Laviolette	BSR,FE_2,PR_1	OO-IV	I-IV
"	T. S. Abney and T. L. Richards	Germ,PS,PSB,SMV	OO-IV	I-IV
Ia. Ames	J. Dunleavy	BST	OO-IV	
"	W. R. Fehr	Chlorosis	OO-III	I,II,IV
"	"	Emergence	OO-IV	
"	H. Tachibana	BSR,PR_1,PR_4	OO-IV	I-IV
Kan. Manhattan	W. T. Schapaugh, Jr.	Shattering	OO-IV	I-IV
Minn. Lamberton	J. Lambert	Chlorosis,BSR	OO-IV	
Ohio Vickery	F. Schmitthenner	PR Tol.	II-IV	II-IV
Hoytville	A. K. Walker	PR Tol.	II,III	II,III
Texas Lubbock	R. D. Brigham	Shattering	III,IV	

Strain	Parentage or Source
A1	Anoka x Mack
A2	(M402 x M406) x C1453
A72-507	Amsoy x Wayne
A72-512	Amsoy x Wayne
A73D22	Amsoy x L62-344
A74-102011	M62-263 x IVR Ex 4426
A74-204034	[Grant x (Lincoln x Hawkeye)] x [Amsoy^{8} x (Blackhawk x Harosoy)]
A75-103019	AP6(S1) CO
A75-105021	Corsoy^{2} x (Mack x L65-1342 or Anoka)
A75-204018	IVR Ex 4731 x Wirth
A75-332035	L15 x AP68-1016
A76-202015	AP6
A76-304005	AP6
A76-304020	(Beeson x AP68-1016) x (L15 x Calland)
A77-116013	Intermating of AX930 x AX965
Agripro 1235	Blend of 75% IVR 1120:25% Steele
AP6	40 lines intermated
AP68-1016	Clark^{5} x PI 84.946-2
AP68-1022	Clark^{5} x PI 84.946-2
AP68-1119	Clark^{5} x PI 84.946-2
AP68-1216	Clark^{5} x PI 84.946-2
AP68-1324	Clark^{5} x PI 84.946-2
Asgrow A2440	Corsoy x PI 28019
Asgrow A2656	M60-406 x W35-184
AX739	AP68-1216 x AP68-1016
AX751	Beeson x AP68-1119
AX755	M59-213 x AP68-1216
AX757	Calland x AP68-1324
AX860-1	Wye x (Amsoy x Wayne)
AX901-40-2	Beeson x AP68-1022
AX930	AX739 x AX751
AX965	AX757 x AX755
C1069	Lincoln x Ogden
C1070	Ogden x Kent
C1079	Lincoln x Ogden

Strain	Parentage or Source
C1223	C1070 x Adams
C1253	Blackhawk x Harosoy
C1266R	Harosoy x C1079
C1311	Wabash x C1069
C1317	C1223 x Mukden
C1453	C1266 x C1253
C1426	(Blackhawk x Harosoy) x Kent
C1504	C1317 x Amsoy
C1512	CX413 x CX412
C1524	Beeson x L63-1397
C1528	Calland x L63-1397
CM145	Acme x Blackhawk
CX407	Amsoy x C1253
CX412	Wayne x C1317
CX413	CX407 x CX412
CX463-3	Cutler x C1311
CX521-71	Hawkeye x Harly
CX588-78	L66L-108 x Beeson
CX597-169	L66L-108 x L69L-6-1
CX621-318	M61-224 x CX407 BC_7-255
D54-2437	Roanoke, Ogdon, CNS, Lincoln, and Richland with $\underline{Rps}_2$ from CNS
L11	$\underline{I}$ $\underline{r}$ from (Clark^6 x T201) x (Clark^6 x T145)
D63-6100	Hill^4 x PI 171.442
D66-12392	D63-6100 x Dyer
D68-18	Contact O. Myers, Jr.
IVR 1120	Provar x (AX56P64-1 x PI 191110-1)
IVR EX 4731	Unknown
J74-5	Forrest x (D68-18 x PI 88.788)
JA 45	PI 196.163
K1028	Williams x Calland
K1030	Williams x Calland
L12	[(Clark^8 xCNS) x(Clark^8 xBlackhawk)] x[(Clark^6 xT201) x (Clark^6 x T145)] $\underline{I}$ $\underline{r}$ $\underline{Rps}_1$ $\underline{rxp}$
L15	Wayne x Clark 63 ($\underline{Rps}_1$)
L57-0034	Clark x Adams
L62-364	Harosoy^6 x T117 ($\underline{Dt}_2$)
L62-535	Harosoy^6 x T145 ($\underline{dt}_1$)
L63-1397	Harosoy^6 x PI 80837 ($\underline{Dt}_2$)

Strain	Parentage or Source
L65-1342	Wayne^2 x L62-1926 ($\underline{e}_2$ from Clark^6 x PI 86.024)
L66-531	(Clark^6 x PI 86024) $\underline{dt}_1$ $\underline{e}_2$ x (Clark^6 x T175) $\underline{E}_1$ $\underline{t}$
L66-1322	(Hawkeye x Lee)^2
L66L-137	Wayne x L57-0034
L66L-108 (Williams)	Wayne x L57-0034
L69L-3	L65-531 (Clark-$\underline{dt}_1$ $\underline{E}_1$ $\underline{t}$ $\underline{e}_2$) x L62-535 (Harosoy-$\underline{dt}_1$)
L69L-6-1	L65-531 (Clark-$\underline{dt}_1$ $\underline{E}_1$ $\underline{t}$ $\underline{e}_2$) x L62-535 (Harosoy-$\underline{dt}_1$)
L69U40-16-4	Calland x Amsoy
L70-2283	Chippewa 64 x Custer
L70D6-16	Harosoy $\underline{ln}$ x (C1253 x Kent)
L70T-543G	L15 x Amsoy 71
L71-3628	L66-1322 x L62-535
L71L-436	L12 x Custer
L72U-640	L66-531 x C1426
L72U-2567	Williams x Ransom
L73-4124	D66-12392 x L69L-3
L73-6536	L12 x Custer (from L71L-436)
L74D7	Contact R. L. Cooper
L74D20	Contact R. L. Cooper
L74D-619	Williams X Ransom
L75-8016	Williams x L70-2283
L75-8020	Williams x L70-2283
Land o'Lakes Max	[Wayne x (Clark x Adams)] x Cutler
M10	Lincoln^2 x Richland
M53-117	M10 x PI 180.501
M54-12	Capital x Renville
M54-110	Harosoy x Norchief
M54-139	Renville x Capital
M54-240	(Lincoln^2 x Richland) x Korean
M59-120	M54-240 x M54-139
M60-406	Blackhawk x Harosoy
M61-224	Merit x Harosoy
M62-173	M387 x M406
M62-263	Grant x M319W
M63-217Y	Corsoy x M53-117
M64-3	Traverse x JA 45

Strain	Parentage or Source
M64-157	Merit x Amsoy
M63-194	Corsoy x PI 132.207
M65-69	M54-12 x Corsoy
M65-94	M54-12 x Corsoy
M65-115-1	Anoka x Amsoy
M65-207	Clay x Hark
M65-442	Anoka x Amsoy
M66-18	Clay x Altona
M67-45	Merit x Rampage
M67-66	Clay x M54-110
M68-2	Wilkin x M59-120
M68-48	Evans x M59-120
M68-49	Evans x M59-120
M68-96	M59-120 x Amsoy 71
M68-256	Evans x Steele
M68-303	M60-406 x Beeson
M319W	Lincoln x Hawkeye
M387	Capital x Renville
M402	Renville x Capital
M406	Harosoy x Norchief
Max	Contact C. D. Nickell
NK 9436	Corsoy x Wayne
NK S1492	Corsoy x Wayne
Peterson 85	Provar x (Amsoy x PI 248.404)
Peterson P61-22	Corsoy x (Magna x Provar)
Pfizer CX276	Wayne x Amsoy 71
Pride B-216	Corsoy x Wayne
S48	Contact C. D. Nickell
Schechinger S48	IVR 1120 x SL12
SL12	[(Wayne^{6} x Clark 63) x (Wayne^{4} x L11)] x (Wayne x Kanrich)
SS65-5702	Clark x (Scott^{2} x Peking)
V68-1034	York x PI 71506
W35-184	W05-3386 x Clark
554-8	Hodgson^{4} x Merit
827-4	Introduction from Holmberg, Sweden
840-7-3	Strain from Sven A. Holmberg, Sweden

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Strain	Parentage	Previous Testing*	Generation Composited
1. Clay (O)	Capital x Renville	5	F_5
2. Maple Amber (OT80-1)	840-70-3 x (Harosoy 63 x Altona)	2	F_6
3. Maple Arrow	Harosoy 63 x 840-70-3	5	F_5
4. Maple Presto	(Amsoy x Portage) x 840-70-3	4	F_5
5. McCall	(Acme x Chippewa) x Hark	9	F_5
6. Portage (OO)	Acme x Comet	22	F_5
7. OT80-18	(M62-173 x 827-4) x (Evans x CM 145)	1	F_5
8. OT81-5	(PI 194.641 x Harosoy e_3) x Harosoy e_3	-	F_5
9. OT81-6	Maple Presto x Evans	-	F_5

*Number of years in test or name of 1981 test

Descriptive and Other Data

Strain	Descriptive Code	Chlorosis Score		Emergence Score	Shattering
		Ames	Lamberton	Ames	Manhattan 2 Weeks
Clay (O)	PGBr SYY I	1.3	1	2	2
Maple Amber	PTBr DYBr I	3.5	2	1	2
Maple Arrow	PTBr DYBr I	1.3	1	2	3
Maple Presto	PTBr DYG I	1.7	2	2	2
McCall	PGBr DYY I	1.3	1	1	4
Portage (OO)	PGBr SYY I	1.3	1	1	2
OT80-18	PTBr IYY I	1.3	1	1	2
OT81-5	PTT IYY I	1.8	1	2	2
OT81-6	PGBr DYY I	2.8	2	1	2

McCall continues to be the highest yielding entry in this test. The strain OT81-5 matures 2 days earlier than McCall and has excellent lodging resistance.

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Disease Data

Strain	BSR			PR_1		PR_4
	Ames		Lafayette	Lafay-		
	Plant	Stem	Stem	ette	Ames	Ames
	n	n	n	a	a	a
	%	%	%	Reaction		
Clay (O)	100	76.6	40	S	S	-
Maple Amber	100	43.4	20	R	R	R
Maple Arrow	100	71.2	20	R	R	R
Maple Presto	50	24.1	0	R	R	R
McCall	95	60.9	0	S	S	R
Portage (OO)	95	61.5	0	S	S	S
OT80-18	100	73.3	0	S	S	S
OT81-5	100	88.5	40	H	S	R
OT81-6	100	56.2	40	S	S	H

Strain	FE_2	PS	PSB	SMV	Germ
	Lafayette				
	a	a	n	a	
	score	%	%	score	%
Clay (O)	5	25	1	5E	89
Maple Amber	5	15	1	5E	81
Maple Arrow	4	8	1	5E	93
Maple Presto	1	15	7	5E	82
McCall	5	35	3	5M	94
Portage (OO)	5	33	1	5E	93
OT80-18	2	8	0	1	97
OT81-5	5	61	8	3M	82
OT81-6	5	51	5	5M	80

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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	8	8	7	7
	bu/a	No.	Date	Score	In.	Score	g/100	%	%
Clay (O)	28.9	7	+9	2.0	29	2.1	14.4	39.2	17.4
Maple Amber	29.9	3	0	1.3	28	1.7	15.3	39.2	18.9
Maple Arrow	30.4	2	+4	1.6	31	1.9	15.8	39.3	18.0
Maple Presto	25.0	9	-10	1.1	23	2.6	14.2	36.5	19.0
McCall	31.3	1	+3	1.7	28	1.8	13.4	37.7	17.3
Portage (OO)	29.4	5	9-13*	1.5	29	1.7	15.2	37.8	17.1
OT80-18	29.0	6	+1	1.1	27	1.6	14.4	37.3	18.3
OT81-5	29.9	3	+1	1.2	26	1.9	15.6	37.4	18.4
OT81-6	28.8	8	-4	1.4	27	1.7	12.9	37.9	18.1

*113 days after planting

1981-1982 2-year mean

No. of Tests	15	15	14	15	15	15	15	11	11
Clay (O)	36.9	2	+11.0	2.0	29	2.1	15.4	40.4	18.1
Maple Amber	34.6	5	+0.5	1.4	28	1.7	15.6	40.8	19.0
Maple Arrow	35.2	4	+7.5	1.6	31	1.9	16.7	40.6	18.3
Maple Presto	27.2	7	-8.5	1.1	23	2.6	14.5	37.6	19.3
McCall	38.6	1	+5.0	1.6	29	1.7	14.3	39.2	17.8
Portage (OO)	33.8	6	9-8.0*	1.5	29	1.8	16.7	38.9	17.7
OT80-18	35.7	3	+4.5	1.2	27	1.7	15.5	38.4	18.7

*112 days after planting

1980-1982 3-year mean

No. of Tests	22	22	21	22	22	22	22	16	16
Clay (O)	37.5	2	+10.0	2.1	30	2.2	15.9	40.9	18.7
Maple Amber	34.4	4	0	1.6	28	1.9	15.9	41.0	19.5
Maple Arrow	35.7	3	+8.0	1.8	30	2.0	17.3	40.5	18.8
Maple Presto	26.5	6	-8.0	1.2	23	2.9	14.9	38.1	19.7
McCall	38.7	1	+5.3	1.8	29	1.9	14.7	39.7	18.2
Portage (OO)	33.3	5	9-7.0*	1.6	28	2.0	17.2	39.1	18.2

*112 days after planting

UNIFORM TEST 00, 1982

Strain	Mean 8 Tests	Mich. Menominee	Minnesota Crookston	Minnesota Rosemount
		YIELD (bu/a)		
Clay (O)	28.9	27.5	19.5	33.7
Maple Amber	29.9	37.2	18.2	34.3
Maple Arrow	30.4	35.1	19.4	30.1
Maple Presto	25.0	29.3	14.1	25.1
McCall	31.3	39.3	20.2	33.5
Portage (OO)	29.4	32.7	24.3	32.2
OT80-18	29.0	27.4	20.6	31.9
OT81-5	29.9	29.5	15.4	31.5
OT81-6	28.8	32.5	18.3	29.9
C.V. (%)		10.6	26.3	8.7
L.S.D. (5%)		5.9	8.5	5.3
Row sp. (in)		10	12	30
Rows/plot		4	8	4
Reps		4	3	3
	8 Tests -	YIELD RANK		
Clay (O)	7	8	4	2
Maple Amber	3	2	7	1
Maple Arrow	2	3	5	7
Maple Presto	9	7	9	9
McCall	1	1	3	3
Portage (OO)	5	4	1	4
OT80-18	6	9	2	5
OT81-5	3	6	8	6
OT81-6	8	5	6	8
	7 Tests -	MATURITY (date)		
Clay (O)	+9	+6	+2	+12
Maple Amber	0	-1	-5	+11
Maple Arrow	+4	+4	+1	+1
Maple Presto	-10	-5	-18	-11
McCall	+3	+6	+2	+3
Portage (OO)	9-13	9-9	9-25	9-1
OT80-18	+1	+6	+1	+5
OT81-5	+1	+2	0	0
OT81-6	-4	-2	-8	-1
Date planted	5-21	5-27		5-21
Days to mature	113	105		103

UNIFORM TEST 00, 1982

N.D.	Wis.	Man.	Ontario	
Fargo	Ashland	Brendon	Ottawa	Elora
		YIELD (bu/a)		
24.7	25.7	16.1	39.1	45.1
24.1	25.1	23.6	34.2	42.6
19.9	30.8	20.1	38.8	48.6
18.5	22.3	22.5	31.8	36.3
22.8	32.4	18.5	38.2	45.1
21.3	24.8	24.6	32.1	43.0
18.7	26.9	21.0	38.0	47.3
23.5	31.6	25.9	38.2	43.8
21.5	26.7	25.4	33.6	42.8
8.8	12.7	13.3	6.0	7.7
3.3	5.7	4.0	3.1	4.9
18	24	9	16	14
4	4	4	4	4
3	3	4	4	4
		YIELD RANK		
1	6	9	1	4
2	7	4	6	8
7	3	7	2	1
9	9	5	9	9
4	1	8	4	3
6	8	3	8	6
8	4	6	5	2
3	2	1	3	5
5	5	2	7	7
		MATURITY (date)		
+9	+12		+18	+7
+2	-6		-1	+1
+7	0		+10	+5
-7	-16		-8	-5
+2	0		+1	+6
9-1	10-1		9-13	9-8
+3	-8		-1	+3
-1	-9		0	+3
-3	-8		-5	0
5-24	5-25		5-21	5-5
100	129		115	126

UNIFORM TEST 00, 1982

Strain	Mean 8 Tests	Mich. Menominee	Minnesota Crookston	Minnesota Rosemount
		LODGING (score)		
Clay (O)	2.0	2.4	2.0	2.3
Maple Amber	1.3	1.5	1.0	2.0
Maple Arrow	1.6	2.1	1.3	2.0
Maple Presto	1.1	1.4	1.0	1.0
McCall	1.7	2.2	1.7	1.7
Portage (OO)	1.5	2.0	1.0	1.3
OT80-18	1.1	1.5	1.0	1.0
OT81-5	1.2	1.0	1.0	1.7
OT81-6	1.4	2.5	1.0	2.3
	8 Tests -	PLANT HEIGHT (inches)		
Clay (O)	29	39	29	29
Maple Amber	28	29	24	34
Maple Arrow	31	35	29	34
Maple Presto	23	27	21	27
McCall	28	32	29	31
Portage (OO)	29	28	28	33
OT80-18	27	31	25	29
OT81-5	26	30	23	26
OT81-6	27	28	24	31
	8 Tests -	SEED QUALITY (score)		
Clay (O)	2.1	3.0	1.7	2.3
Maple Amber	1.7	2.0	1.7	2.3
Maple Arrow	1.9	3.0	1.3	2.3
Maple Presto	2.6	1.0	2.3	3.0
McCall	1.8	2.0	1.7	2.0
Portage (OO)	1.7	2.0	1.3	2.0
OT80-18	1.6	1.0	1.3	2.3
OT81-5	1.9	2.0	1.3	2.7
OT81-6	1.7	1.0	1.3	2.3

UNIFORM TEST 00, 1982

N.D.	Wis.	Man.	Ontario	
Fargo	Ashland	Brendon	Ottawa	Elora
		YIELD (bu/a)		
1.0	3.0	1.0	3.0	1.0
1.0	1.0	1.0	1.5	1.0
1.0	1.7	1.0	2.5	1.0
1.0	1.0	1.0	1.0	1.0
1.0	2.3	1.0	2.3	1.1
1.0	2.3	1.0	2.2	1.0
1.0	1.0	1.0	1.3	1.0
1.0	1.3	1.0	1.5	1.0
1.0	1.3	1.0	1.3	1.0
		PLANT HEIGHT (inches)		
25	24	27	37	24
24	22	29	34	26
26	26	30	39	28
23	19	24	33	21
24	24	25	33	30
26	25	29	34	28
22	21	28	35	25
22	21	26	33	23
23	23	30	33	27
		SEED QUALITY (score)		
1.0	2.7	2.8	1.0	2.0
2.0	2.0	1.3	1.0	1.5
1.0	2.7	2.0	1.0	1.5
3.0	3.7	2.6	2.0	3.5
1.0	2.3	2.5	1.0	2.0
1.0	2.3	2.2	1.0	2.0
1.0	2.0	2.3	1.0	2.0
1.0	2.7	2.0	1.3	2.5
2.0	1.7	1.4	1.5	2.0

UNIFORM TEST 00, 1982

Strain	Mean 8 Tests	Mich. Menominee	Minnesota Crookston	Minnesota Rosemount
		SEED SIZE (g/100)		
Clay (O)	14.4	11.2	16.0	15.3
Maple Amber	15.3	13.5	17.6	17.5
Maple Arrow	15.8	15.5	15.9	15.3
Maple Presto	14.2	13.1	16.5	14.6
McCall	13.4	12.0	14.3	14.5
Portage (OO)	15.2	12.6	16.5	17.3
OT80-18	14.4	12.5	15.9	16.3
OT81-5	15.6	13.0	17.6	16.8
OT81-6	12.9	11.0	15.4	13.5
	7 Tests -	PROTEIN (%)		
Clay (O)	39.2	32.6	41.0	41.3
Maple Amber	39.2	34.7	41.3	41.1
Maple Arrow	39.3	36.3	40.5	40.5
Maple Presto	36.5	31.8	38.4	40.5
McCall	37.7	31.7	41.1	38.5
Portage (OO)	37.8	33.3	38.0	39.7
OT80-18	37.3	32.3	39.5	38.1
OT81-5	37.4	33.1	39.6	40.0
OT81-6	37.9	34.7	39.3	39.1
	7 Tests	OIL (%)		
Clay (O)	17.4	18.5	16.9	17.4
Maple Amber	18.9	19.8	17.9	20.1
Maple Arrow	18.0	18.5	17.1	17.9
Maple Presto	19.0	20.0	17.9	19.7
McCall	17.3	19.4	15.4	18.3
Portage (OO)	17.1	17.6	17.0	18.3
OT80-18	18.3	19.6	17.8	20.1
OT81-5	18.4	18.6	17.2	19.4
OT81-6	18.1	18.4	17.6	19.7

UNIFORM TEST 00, 1982

N.D.	Wis.	Man.	Canada	
Fargo	Ashland	Brendon	Ottawa	Elora
		SEED SIZE (g/100)		
12.5	14.3	11.4	19.3	15.5
13.3	14.2	13.3	17.4	15.5
16.2	14.3	13.2	20.3	15.3
10.5	14.3	13.5	16.1	15.2
11.4	14.2	11.3	16.3	13.5
14.0	14.2	13.0	17.5	16.2
12.0	14.2	12.5	17.2	14.4
13.9	14.4	14.2	19.3	15.4
10.6	14.2	11.8	14.1	12.5
		PROTEIN (%)		
	40.8	39.9	41.2	37.8
	39.5	38.4	42.2	36.9
	40.1	39.7	41.9	36.0
	36.6	35.3	37.6	35.4
	38.2	37.8	39.6	36.7
	38.9	37.2	40.2	37.1
	38.3	36.9	39.5	36.8
	36.7	37.1	39.0	36.6
	38.3	37.2	39.5	37.5
		OIL (%)		
	15.4	17.8	17.9	17.8
	18.1	19.3	18.1	19.2
	17.2	18.4	18.1	18.8
	17.5	20.1	19.1	18.8
	16.3	17.0	17.4	17.5
	15.7	16.7	17.2	17.5
	16.7	18.1	18.3	17.3
	18.1	18.2	18.6	18.7
	17.2	18.5	18.5	17.0

UNIFORM TEST 0, 1982

Strain	Parentage	Previous* Testings	Generation Composited
1. Evans (O)	Merit x Harosoy	12	F_5
2. Hodgson 78 (I)	Hodgson[7] x Merit	5	F_5
3. McCall (OO)	(Acme x Chippewa) x Hark	2	F_5
4. M70-128E	Evans x M63-217Y	1	F_5
5. M71-43	Wilkin x M63-217Y	3	F_5
6. M71-148	Clay x Evans	UT00	F_5
7. M72-127	Evans x "unknown"	1	F_5
8. M73-62	M61-224 x Nagyszemu Feher	PTI 8	F_5
9. M74-12	Evans x Peterson 85	1	F_5
10. M74-23	M68-2 x Hodgson	1	F_5
11. M74-167	Clay x Wells	-	F_5
12. M74-337	Evans x NK9436	-	F_5
13. M74-349	M68-49 x M65-207	-	F_5
14. M74-388	Evans x Agripro 1235	-	F_5
15. M74-438	Evans x M68-303	-	F_5
16. M74-463	M68-49 x M67-66	-	F_5
17. M75-15	Peterson 85[2] x Evans	-	F_5
18. M75-25	Evans x M66-18	-	F_5

*Number of years in test or name of 1981 test.

Descriptive and Other Data

Strain	Descriptive Code	Chlorosis Score Ames	Chlorosis Score Lamberton	Emergence Score Ames	Shattering Manhattan 2 Weeks
Evans (O)	WGBr DYY I	2.0	1	1	2
Hodgson 78 (I)	PGBr DYBf I	3.2	1	5	2
McCall (OO)	PGBr DYY I	2.5	1	1	2
M70-128E	PGBr DYY I	1.8	1	1	2
M71-43	PGBr DYY I	2.2	1	5	2
M71-148	WGBr SYY I	2.5	1	1	2
M72-127	WGT+BrDYY I	2.8	1	1	2
M73-62	WGT DYY I	2.8	1	1	2
M74-12	PGBr DYIb I	2.2	1	1	2
M74-23	P+WGBrDYBf I	2.8	1	1	2
M74-167	PGBr IYBf I	3.8	2	1	2
M74-337	WTBr IYBl I	2.5	1	1	2
M74-349	WGBr DYY I	2.0	1	1	2
M74-388	WGBr DYY I	1.5	1	5	2
M74-438	WGBr DYY I	1.8	1	1	2
M74-463	PGBr DYY I	2.5	1	1	2
M75-15	PGT IYBf I	3.8	2	5	2
M75-25	PGBr SYY I	2.8	1	1	2

UNIFORM TEST 0, 1982

Disease Data

Strain	BSR			PR_1		PR_4
	Ames		Lafayette	Lafay-		
	Plant	Stem	Stem	ette	Ames	Ames
	n	n	n	a	a	a
	%	%	%	Reaction		
Evans (O)	95	59.2	0	R	R	S
Hodgson 78 (I)	100	49.4	60	R	R	S
McCall (OO)	100	71.1	0	S	S	S
M70-128E	100	67.7	40	R	R	S
M71-43	100	58.0	20	R	R	S
M71-148	100	83.6	80	R	R	S
M72-127	100	66.3	0	R	R	S
M73-62	100	82.6	20	S	S	S
M74-12	100	73.1	20	H	H	S
M74-23	100	78.8	20	S	S	S
M74-167	100	72.3	20	R	R	S
M74-337	100	43.7	0	H	S	S
M74-349	100	87.1	20	R	R	S
M74-388	100	72.0	0	R	R	S
M74-438	100	53.8	60	R	R	S
M74-463	100	64.3	80	R	R	S
M75-15	100	83.6	20	S	S	S
M75-25	100	64.7	40	R	H	R

Strain	FE_2	PS	PSB	SMV	Germ
			Lafayette		
	a	a	n	a	
	score	%	%	score	%
Evans (O)	5	57	12	1	67
Hodgson 78 (I)	5	81	3	4E	94
McCall (OO)	5	38	4	3M	95
M70-128E	5	21	4	1	96
M71-43	5	14	1	1	97
M71-148	5	30	9	1	85
M72-127	5	53	0	1	98
M73-62	5	67	0	1	93
M74-12	5	91	1	5M	97
M74-23	5	46	2	3E	95
M74-167	5	80	2	3M	93
M74-337	4	45	3	1	88
M74-349	5	80	0	1	92
M74-388	5	61	5	2M	93
M74-438	4	65	0	2M	92
M74-463	5	67	11	1	81
M75-15	5	98	6	5E	88
M75-25	5	38	2	4E	97

UNIFORM TEST 0, 1982

Regional Summary

Strain	Yield	Rank	Maturity	Lodging	Plant Height	Seed Quality	Seed Size	Composition	
								Protein	Oil
No. of Tests	8	8	8	8	7	7	8	6	6
	bu/a	No.	Date	Score	In.	Score	g/100	%	%
Evans (O)	36.6	5	9-22*	1.8	34	2.0	14.7	38.7	18.6
Hodgson 78 (I)	33.1	17	+7	2.1	35	2.2	15.7	38.9	17.4
McCall (OO)	29.9	18	-13	1.2	28	2.2	13.3	38.4	18.2
M70-128E	36.5	7	+2	2.1	32	2.1	14.2	38.7	18.0
M71-43	37.7	3	-3	1.4	32	2.0	14.7	39.1	18.0
M71-148	34.5	14	-9	1.4	30	2.2	13.1	39.3	18.5
M72-127	39.3	1	+5	2.1	34	2.0	16.3	40.4	17.2
M73-62	36.0	10	+2	1.4	27	1.9	14.7	38.8	18.4
M74-12	38.1	2	+2	1.5	31	2.3	16.5	40.6	17.7
M74-23	36.6	5	+1	1.7	29	2.0	15.3	39.6	18.4
M74-167	35.7	11	+3	1.3	29	2.2	14.5	40.1	17.5
M74-337	34.4	16	+1	2.1	37	2.3	14.6	41.7	16.2
M74-349	36.1	9	+3	2.0	34	2.1	15.4	39.3	18.2
M74-388	35.1	12	+2	1.6	34	2.1	16.2	40.9	17.1
M74-438	36.3	8	+5	1.9	35	2.3	16.3	39.4	18.0
M74-463	34.5	14	+4	2.1	37	2.0	18.4	38.2	18.6
M75-15	34.9	13	+1	1.8	30	2.7	16.7	40.6	16.6
M75-25	36.7	4	+5	1.6	29	2.2	15.8	39.6	17.6

*121 days after planting

The strain M74-43 has the highest 3- and 4-year mean of any entry in the test, has excellent lodging resistance, and is resistant to races 1 and 2 of P. megospermia f. sp. glycinea. This strain has a very poor emergence score. M71-127 has been the highest yielding strain in the test the past 2 years but is very late for a Group 0 strain.

UNIFORM TEST 0, 1982

1981-1982 2-year mean

Strain	Yield	Rank	Maturity	Lodging	Plant Height	Seed Quality	Seed Size	Composition Protein	Composition Oil
No. of Tests	15 bu/a	15 No.	15 Date	15 Score	14 In.	13 Score	15 g/100	10 %	10 %
Evans (O)	39.6	6	9-21*	2.0	35	1.8	15.2	39.9	18.8
Hodgson 78 (I)	38.5	8	+6.5	2.1	36	1.9	16.0	40.0	18.0
McCall (OO)	34.1	9	-12.5	1.6	30	2.0	14.0	39.4	18.4
M70-128E	40.7	4	+1.5	2.1	34	1.9	14.9	39.2	18.4
M71-43	41.1	3	-3.0	1.4	33	1.9	15.8	40.5	18.3
M72-127	42.6	1	+4.5	2.1	35	2.0	16.8	41.4	17.6
M73-62	39.4	7	+2.0	1.5	29	1.9	15.0	39.8	18.6
M74-12	41.3	2	+2.5	1.5	32	2.2	16.6	41.0	18.0
M74-23	40.5	5	0	1.7	31	1.8	15.5	40.7	18.7

*122 days after planting

1980-1982 3-year mean

No. of Tests	23	23	22	23	22	20	22	15	15
Evans (O)	40.3	3	9-20.7*	2.2	36	1.9	15.6	40.5	19.1
Hodgson 78 (I)	40.1	4	+7.0	2.4	38	2.0	16.5	40.2	18.4
McCall (OO)	34.8	5	-12.7	1.7	30	2.0	14.3	39.6	18.7
M71-43	41.9	1	-3.0	1.5	33	1.9	16.0	41.1	18.6
M73-62	40.5	2	+2.0	1.7	29	1.9	15.7	40.7	18.9

*123 days after planting

1979-1982 4-year mean

No. of Tests	30	30	29	30	28	26	29	19	19
Evans (O)	40.3	3	9-21.7*	2.0	36	1.9	15.8	40.4	19.1
Hodgson 78 (I)	40.7	2	+7.4	2.3	38	2.1	16.6	40.2	18.5
M71-43	41.5	1	-2.8	1.5	33	1.9	16.4	41.1	18.7

*122 days after planting

UNIFORM TEST O, 1982

Strain	Mean 8 Tests	Mich. Saginaw	Minnesota Morris	Minnesota Rosemount
		YIELD (bu/a)		
Evans (O)	36.6	53.8	38.0	36.3
Hodgson 78 (I)	33.1	47.9	33.4	39.0
McCall (OO)	29.9	42.4	20.9	31.2
M70-128E	36.5	52.4	34.7	37.9
M71-43	37.7	50.3	40.6	39.0
M71-148	34.5	47.3	32.2	34.0
M72.127	39.3	56.4	38.5	39.1
M73-62	36.0	37.9	39.8	38.2
M74-12	38.1	52.7	38.1	43.1
M74-23	36.6	43.8	33.5	41.2
M74-167	35.7	50.6	37.8	35.0
M74-337	34.4	47.6	38.1	40.5
M74-349	36.1	55.7	40.2	34.5
M74-388	35.1	47.9	36.1	39.3
M74-438	36.3	55.1	35.2	41.6
M74-463	34.5	47.0	35.8	39.0
M75-15	34.9	37.7	40.0	39.9
M75-25	36.7	55.2	33.2	38.2
C.V. (%)		12.5	6.7	7.7
L.S.D. (5%)		10.2	3.7	5.1
Row sp. (in)		20	30	30
Rows/plot		4	4	4
Reps		3	3	3
		YIELD RANK		
Evans (O)	5	5	8	14
Hodgson 78 (I)	17	11	15	8
McCall (OO)	18	16	18	18
M70-128E	7	7	13	13
M71-43	3	9	1	8
M71-148	14	13	17	17
M72-127	1	1	5	7
M73-62	10	17	4	11
M74-12	2	6	6	1
M74-23	5	15	14	3
M74-167	11	8	9	15
M74-337	16	12	6	4
M74-349	9	2	2	16
M74-388	12	10	10	6
M74-438	8	4	12	2
M74-463	14	14	11	8
M75-15	13	18	3	5
M75-25	4	3	16	12

UNIFORM TEST 0, 1982

N.D.	S.D.	Wis.	Ontario	
Fargo	Wilmot	Spooner	Ottawa	Elora
		YIELD (bu/a)		
29.0	26.7	29.3	36.9	43.1
26.3	28.9	33.1	32.9	23.6
23.7	22.5	25.4	30.1	42.6
26.5	27.1	29.9	38.5	44.8
26.4	24.5	33.2	35.7	51.5
26.3	24.6	30.4	35.4	45.7
30.5	27.2	34.4	42.4	45.5
31.0	22.0	32.3	35.3	51.2
29.4	25.6	32.1	34.4	49.5
31.0	28.6	31.4	38.8	44.5
25.1	28.5	30.0	33.3	44.9
28.4	21.9	28.1	30.6	40.2
28.8	21.4	29.7	34.7	44.1
27.6	26.6	29.5	31.6	41.9
25.6	21.6	30.6	36.0	44.9
25.1	27.4	29.6	31.7	40.5
26.4	26.7	32.1	33.3	42.8
25.3	26.7	32.8	34.1	48.4
7.8	16.7	8.2	8.1	7.6
3.5	NS	4.2	4.0	4.6
18	38	36	16	14
4	4	4	4	4
3	3	3	4	4
		YIELD RANK		
5	7	16	4	12
12	1	3	14	18
18	14	18	18	14
9	6	12	3	9
10	13	2	6	1
12	12	10	7	5
3	5	1	1	6
1	15	5	8	2
4	11	6	10	3
1	2	8	2	10
16	3	11	13	8
7	16	17	17	17
6	18	13	9	11
8	10	15	16	15
14	17	9	5	7
16	4	14	15	16
10	9	7	12	13
15	8	4	11	4

UNIFORM TEST 0, 1982

Strain	Mean 8 Tests	Mich. Saginaw	Minnesota Morris	Minnesota Rosemount
		MATURITY (date)		
Evans (O)	9-22	9-20	9-18	9-21
Hodgson 78 (I)	+7	+12	+11	+7
McCall (OO)	-13	-11	-15	-18
M70-128E	+2	+1	+4	+1
M71-43	-3	-1	-1	-1
M71-148	-9	-10	-12	-11
M72-127	+5	+10	+5	+3
M73-62	+2	+5	-1	+2
M74-12	+2	+6	0	+6
M74-23	+1	+1	+3	+2
M74-167	+3	+6	0	+4
M74-337	+1	0	0	0
M74-349	+3	+6	0	+2
M74-388	+2	+3	0	+2
M74-438	+5	+7	+7	+5
M74-463	+4	8	0	+5
M75-15	+1	6	0	+6
M75-25	+5	+8	+4	+5
Date planted	5-23	6-3	5-17	5-21
Days to mature	121	109	124	123
		LODGING (score)		
Evans (O)	1.8	2.0	2.7	2.0
Hodgson 78 (I)	2.1	2.3	3.0	2.0
McCall (OO)	1.2	1.0	1.7	1.3
M70-128E	2.1	2.0	2.3	2.3
M71-43	1.4	1.7	2.0	1.7
M71-148	1.4	1.0	1.7	2.3
M72-127	2.1	2.3	2.3	2.0
M73-62	1.4	1.0	1.7	2.0
M74-12	1.5	1.0	2.0	2.3
M74-23	1.7	1.3	3.0	2.0
M74-167	1.3	1.0	1.7	2.0
M74-337	2.1	2.0	2.3	2.7
M74-349	2.0	2.0	2.7	3.0
M74-388	1.6	2.0	2.0	2.3
M74-438	1.9	2.0	3.0	2.0
M74-463	2.1	2.3	3.0	3.0
M75-15	1.8	2.0	2.7	2.3
M75-25	1.6	1.7	2.3	1.7

UNIFORM TEST 0, 1982

N.D.	S.D.	Wis.	Ontario	
Fargo	Wilmot	Spooner	Ottawa	Elora
		MATURITY (date)		
9-21	9-19	9-13	10-9	9-22
+4	+10	+3	+6	+6
-19	-6	-7	-20	-10
+2	+1	+6	-3	+1
-7	-1	-3	-10	-2
-11	-3	-4	-13	-8
0	+2	+8	+6	+6
+2	+1	+5	-4	+3
+2	-2	+2	0	+4
+1	-2	+3	-4	+4
+2	+1	+3	+4	+5
+1	+3	0	-1	+4
+2	-1	+4	+4	+5
+1	+1	+3	+2	+4
+2	+5	+1	+5	+6
+2	+2	0	+6	+8
-9	0	+2	-1	+3
+2	+2	+4	+6	+5
5-24	5-28	5-11	5-26	5-25
120	114	125	136	120
		LODGING (score)		
1.0	1.0	2.3	1.7	1.5
1.0	1.7	2.0	2.8	2.2
1.0	1.0	1.4	1.2	1.1
1.0	1.7	3.0	2.8	1.5
1.0	1.0	1.4	1.1	1.0
1.0	1.0	2.0	1.1	1.0
1.0	1.7	3.0	2.6	1.7
1.0	1.0	1.7	1.4	1.2
1.0	1.0	2.3	1.3	1.1
1.0	1.0	2.3	1.4	1.3
1.0	1.0	1.7	1.2	1.0
1.0	1.0	2.7	3.4	2.0
1.0	1.3	2.0	2.3	1.8
1.0	1.0	1.7	1.2	1.3
1.0	1.3	2.0	2.1	1.4
1.0	1.3	2.7	2.0	1.5
1.0	1.3	2.0	1.8	1.5
1.0	1.0	2.3	1.4	1.2

UNIFORM TEST 0, 1982

Strain	Mean 7 Tests	Mich. Saginaw	Minnesota Morris	Minnesota Rosemount
		PLANT HEIGHT (inches)		
Evans (O)	34	31	36	39
Hodgson 78 (I)	35	36	40	38
McCall (OO)	28	25	28	32
M70-128E	32	31	32	36
M71-43	32	34	34	35
M71-148	30	29	32	36
M72-127	34	33	37	36
M73-62	27	23	28	31
M74-12	31	30	34	34
M74-23	29	28	33	33
M74-167	29	27	31	31
M74-337	37	33	42	41
M74-349	34	33	38	35
M74-388	34	37	40	39
M74-438	35	37	37	40
M74-463	37	38	37	42
M75-15	30	27	31	33
M75-25	29	30	31	31
		SEED QUALITY (score)		
Evans (O)	2.0		3.0	2.3
Hodgson 78 (I)	2.2		3.3	2.3
McCall (OO)	2.2		3.0	2.0
M70-128E	2.1		3.7	2.3
M71-43	2.0		3.0	2.0
M71-148	2.2		3.0	2.0
M72-127	2.0		3.7	2.0
M73-62	1.9		3.3	2.3
M74-12	2.3		3.3	2.7
M74-23	2.0		3.0	2.3
M74-167	2.2		3.3	3.0
M74-337	2.3		3.0	2.3
M74-349	2.1		3.0	2.7
M74-388	2.1		3.0	3.0
M74-438	2.3		3.7	2.7
M74-463	2.0		3.0	2.3
M75-15	2.7		3.3	3.0
M75-25	2.2		3.3	2.7

UNIFORM TEST 0, 1982

N.D. Fargo	S.D. Wilmot	Wis. Spooner	Ontario Ottawa	Ontario Elora
		PLANT HEIGHT (inches)		
27	28		40	36
28	33		39	33
24	27		30	29
26	29		39	32
25	28		35	32
25	27		35	27
28	31		39	37
22	25		31	28
25	29		33	31
24	28		32	28
23	27		31	30
29	30		42	43
27	29		37	36
26	29		37	33
27	30		38	37
28	32		40	39
24	29		35	31
23	25		33	31
		SEED QUALITY (score)		
1.0	3.0	2.0	1.0	2.0
1.0	3.0	1.3	1.0	3.5
1.0	4.0	2.0	1.3	2.0
1.0	2.0	2.0	1.0	2.5
1.0	3.0	1.7	1.0	2.0
2.0	3.0	2.0	1.0	2.5
2.0	2.0	1.7	1.0	1.5
1.0	2.0	2.0	1.0	2.0
1.0	2.0	2.0	1.0	4.0
1.0	2.0	1.0	1.0	3.5
2.0	2.0	1.3	1.0	3.0
1.0	3.0	1.3	1.0	4.5
1.0	3.0	1.7	1.0	2.5
1.0	3.0	1.7	1.0	2.0
1.0	3.0	2.0	1.0	3.0
1.0	2.0	2.0	1.3	2.5
2.0	3.0	1.7	1.2	4.5
1.0	3.0	2.0	1.0	2.5

UNIFORM TEST 0, 1982

Strain	Mean 8 Tests	Mich. Saginaw	Minnesota Morris	Minnesota Rosemount
		SEED SIZE (g/100)		
Evans (O)	14.7	15.5	14.9	16.4
Hodgson 78 (I)	15.7	16.6	15.6	17.4
McCall (OO)	13.3	14.7	13.4	14.0
M70-128E	14.2	14.7	14.0	15.0
M71-43	14.7	16.2	15.3	15.4
M71-148	13.1	14.5	13.7	14.0
M72-127	16.3	17.5	16.3	18.6
M73-62	14.7	15.8	14.9	16.4
M74-12	16.5	16.3	17.0	18.9
M74-23	15.3	15.0	15.5	16.8
M74-167	14.5	14.5	15.0	15.2
M74-337	14.6	15.3	14.3	15.6
M74-349	15.4	16.8	15.3	16.5
M74-388	16.2	16.9	15.8	17.5
M74-438	16.3	17.6	15.3	18.9
M74-463	18.4	18.5	17.9	19.0
M75-15	16.7	17.5	16.8	19.3
M75-25	15.8	16.0	15.1	17.7

	6 Tests -	PROTEIN (%)		
Evans (O)	38.7		37.9	40.1
Hodgson 78 (I)	38.9		37.3	41.1
McCall (OO)	38.4		37.5	40.0
M70-128E	40.4		39.8	41.6
M71-43	39.1		39.3	40.3
M71-148	39.3		39.5	39.8
M72-127	38.7		38.8	40.0
M73-62	38.8		38.2	40.5
M74-12	40.3		39.3	42.3
M74-23	39.6		39.3	41.0
M74-167	40.1		38.4	42.7
M74-337	41.7		39.8	42.6
M74-349	39.3		38.9	41.5
M74-388	40.9		39.4	42.5
M74-438	39.4		37.8	41.2
M74-463	38.2		37.1	39.7
M75-15	40.6		40.0	43.5
M75-25	39.6		38.0	41.4

UNIFORM TEST 0, 1982

N.D.	S.D.	Wis.	Ontario	
Fargo	Wilmot	Spooner	Ottawa	Elora
		SEED SIZE (g/100)		
12.5	12.1	16.8	17.0	12.7
14.7	13.5	16.0	17.7	14.1
11.4	10.7	18.0	13.5	10.5
13.4	12.2	15.5	17.0	12.1
13.6	12.6	16.3	15.5	13.0
12.0	10.4	15.2	13.7	11.4
14.5	13.4	17.5	18.9	13.3
13.6	12.5	16.2	15.9	12.4
15.6	12.2	18.3	17.1	16.3
14.9	13.2	16.6	15.5	14.6
12.5	12.3	16.0	17.5	12.7
12.5	12.9	15.9	16.7	13.3
15.0	11.6	17.6	19.3	11.0
13.8	12.7	18.1	18.8	15.6
14.6	13.1	17.8	18.5	14.3
16.1	15.5	19.5	22.5	17.8
14.9	13.4	17.7	18.9	15.1
12.8	13.6	16.8	18.7	15.8

		PROTEIN (%)		
	38.7	40.0	37.1	38.5
	37.1	39.3	37.9	40.6
	38.7	38.8	37.8	37.6
	39.0	41.6	39.4	40.7
	37.4	40.8	37.8	39.0
	40.8	39.4	38.4	38.1
	37.7	40.0	37.0	38.8
	39.9	40.1	36.5	37.8
	39.0	41.3	39.6	40.4
	39.0	40.8	38.2	39.5
	38.7	41.2	39.2	40.6
	41.0	41.7	42.1	43.0
	39.8	39.6	37.6	38.4
	40.1	42.3	40.4	40.6
	39.4	39.5	38.8	39.4
	37.5	38.2	37.1	39.3
	39.5	40.3	39.2	40.9
	37.9	40.7	38.7	41.2

UNIFORM TEST 0, 1982

Strain	Mean 6 Tests	Minnesota		S.D.	Wis.	Ontario	
		Morris	Rosemount	Wilmot	Spooner	Ottawa	Elora
			OIL (%)				
Evans (O)	18.6	19.7	18.5	19.1	18.2	19.3	16.7
Hodgson 78 (I)	17.4	19.0	17.0	19.2	18.2	18.7	12.6
McCall (OO)	18.2	19.7	18.5	17.8	19.0	18.4	16.0
M70-128E	17.2	18.0	17.9	18.6	16.6	17.6	14.5
M71-43	18.0	18.8	18.2	18.8	17.7	19.1	15.4
M71-148	18.5	19.5	18.9	18.6	18.9	18.9	16.3
M72-127	18.0	18.6	18.0	18.9	17.6	19.1	16.1
M73-62	18.4	19.5	18.1	17.9	17.8	19.7	17.6
M74-12	17.7	18.9	17.0	17.5	17.7	18.7	16.3
M74-23	18.4	18.8	18.0	18.7	18.3	19.4	17.3
M74-167	17.5	18.4	16.8	18.6	17.2	18.0	16.0
M74-337	16.2	17.6	16.4	16.9	17.1	16.3	12.9
M74-349	18.2	19.3	18.0	17.7	18.8	19.8	15.6
M74-388	17.1	18.2	16.9	18.3	16.9	18.1	14.0
M74-439	18.0	19.1	18.1	18.6	18.5	18.5	15.1
M74-463	18.6	19.7	18.6	20.0	19.0	19.4	14.6
M75-15	16.6	17.4	16.0	17.6	17.2	18.1	13.5
M75-25	17.6	18.8	17.2	19.3	17.7	19.3	13.3

UNIFORM TEST I, 1982

Strain	Parentage	Previous Testing*	Generation Composited
1. Corsoy 79 (II)	Corsoy[6] x Lee 68	3	BC_5F_3
2. Evans (O)	Merit x Harosoy	5	F_5
3. Hodgson 78 (I)	Hodgson[7] x Merit	8	BC_6F_3
4. Lakota	AP6M(S1)C1	3	F_4
5. Weber	C1453 x Swift	1979 UT I	F_5
6. Weber BC	Weber[5] x Century	2	BC_4F_2
7. A78-123018	Pride B-216 x Hodgson	1	F_4
8. A79-134008	AP6(1YT)(F_4) C2	1	F_4
9. A79-135010	Pride B-216 x Cumberland	P I	F_4
10. A80-144004	NKS1492 x A75-204018	P I	F_4
11. A80-144024	Weber x L69U40-16-4	P I	F_4
12. A81-157024	Pride B-216[2] x A2	-	BC_1F_2
13. LN78-896	L70T-543G x C1528	P IIB	F_5
14. M70-187	Merit x SS65-5702	P I	F_5
15. M74-55	M68-96 x Hodgson	P I	F_5
16. M74-62	M68-256 x Hodgson	P I	F_5

*Number of years in test or name of 1981 test.

Descriptive and Other Data

Strain	Descriptive Code	Chlorosis Score Ames	Chlorosis Score Lamberton	Emergence Score Ames	Shattering Manhattan 2 Weeks
Corsoy 79 (II)	PGBr DYY I	4.2	3	1	2
Evans (O)	WGBr DYY I	2.5	1	1	2
Hodgson 78 (I)	PGBr DYBf I	2.2	1	5	2
Lakota	PTT SYB1 I	2.7	1	1	2
Weber	WTBr IYB1 I	2.5	1	5	2
Weber BC	WTBr IYB1 I	2.2	1	5	2
A78-123018	PGBr DYBf I	3.8	1	1	3
A79-134008	WGBr DYBf I	2.0	1	5	2
A79-135010	WTT DYB1 I	4.0	4	2	2
A80-144004	WTBr DYBr I	4.5	2	1	2
A80-144024	PGT IYG I	1.8	1	5	2
A81-157024	WGBr DYY I	2.3	1	1	2
LN78-896	WGBr DYBf I	2.8	2	2	2
M70-187	WGBr DYBf I	2.0	1	2	2
M74-55	P+WTT DYBr I	3.3	2	5	3
M74-62	WGBr DYY I	3.2	1	1	2

UNIFORM TEST I, 1982

Disease Data

Strain	BSR			PR_1		PR_4
	Ames		Lafayette	Lafay-		
	Plant	Stem	Stem	ette	Ames	Ames
	n	n	n	a	a	a
	%	%	%	Reaction		
Corsoy 79 (II)	100	56.2	60	R	R	S
Evans (O)	100	61.4	0	R	R	S
Hodgson 78 (I)	100	53.8	60	R	R	S
Lakota	100	59.3	80	R	R	S
Weber	100	54.0	80	S	S	S
Weber BC	100	70.3	60	R	R	S
A78-123018	100	89.0	100	S	S	S
A79-134008	100	54.5	100	S	S	S
A79-135010	100	72.7	80	S	S	S
A80-144004	100	89.0	100	S	S	S
A80-144024	100	58.8	60	S	S	S
A81-157024	80	38.9	60	S	S	S
LN78-896	100	56.4	20	H	S	S
M70-187	100	89.4	30	R	R	S
M74-55	90	61.4	10	R	R	S
M74-62	100	60.5	40	R	R	S

Strain	FE_2	PS	PSB	SMV	Germ
	Lafayette				
	a	a	n	a	
	score	%	%	score	%
Corsoy 79 (II)	5	45	2	5E	98
Evans (O)	5	57	12	1	67
Hodgson 78 (I)	5	52	3	3E	94
Lakota	3	55	5	4E	93
Weber	4	12	3	5E	94
Weber BC	4	12	1	5E	97
A78-123018	5	46	0	1	99
A79-134008	4	71	7	1	86
A79-135010	4	48	1	5E	97
A80-144004	5	39	7	5E	91
A80-144024	3	45	1	5E	97
A81-157024	5	48	1	4E	96
LN78-896	5	40	1	4E	98
M70-187	3	39	1	1	98
M74-55	5	22	6	5E	96
M74-62	5	53	5	1	93

UNIFORM TEST I, 1982

Regional Summary

Strain	Yield	Rank	Maturity	Lodging	Plant Height	Seed Quality	Seed Size	Composition Protein	Composition Oil
No. of Tests	14	14	13	14	14	11	13	5	5
	bu/a	No.	Date	Score	In.	Score	g/100	%	%
Corsoy 79 (II)	46.8	2	+9	2.6	40	1.8	14.9	40.4	16.7
Evans (O)	39.2	16	-8	1.5	31	1.8	15.2	39.2	18.6
Hodgson 78 (I)	45.5	5	9-20*	1.9	34	2.0	15.6	39.6	18.1
Lakota	42.6	14	+2	3.0	40	2.1	14.9	40.5	16.7
Weber	44.7	9	+4	2.3	36	1.7	13.0	39.1	17.6
Weber BC	45.3	7	+6	2.5	38	1.8	13.2	39.3	17.4
A78-123018	45.2	8	0	1.8	31	1.9	14.5	38.9	18.1
A79-134008	43.2	13	+3	1.5	36	2.2	15.1	40.0	17.3
A79-135010	44.1	11	+4	1.7	33	2.2	15.7	40.9	16.8
A80-144004	44.6	10	+5	2.2	35	1.8	15.6	38.4	18.1
A80-144024	45.8	4	+3	1.7	31	2.5	15.7	39.4	17.6
A81-157024	44.0	12	+4	1.6	32	2.1	14.8	39.9	17.4
LN78-896	45.5	5	+6	1.9	34	1.9	16.0	40.3	16.8
M70-187	39.4	15	-1	2.3	33	2.0	14.2	37.5	17.9
M74-55	46.1	3	+4	1.9	34	2.0	18.1	39.9	17.8
M74-62	47.5	1	+1	2.0	33	1.8	17.8	39.4	19.0

*119 days after planting

1981-1982 2-year mean

No. of Tests	27	27	25	27	27	21	25	9	9
Corsoy 79 (II)	47.8	1	+9.0	2.7	40	1.8	15.3	41.3	17.3
Evans (O)	38.2	7	-7.0	1.7	31	2.1	15.5	40.0	18.9
Hodgson 78 (I)	44.6	5	9-18.2*	2.0	34	2.1	16.2	40.8	18.4
Lakota	43.9	6	+2.0	3.1	40	2.1	15.5	42.4	16.9
A78-123018	47.7	3	+0.1	2.0	31	2.0	15.2	40.8	18.2
A79-134008	45.8	4	+3.0	1.7	37	2.5	15.7	41.6	17.7
A79-135010	47.8	1	+3.0	2.0	35	2.2	16.5	42.0	17.6

*119 days after planting

1980-1982 3-year mean

No. of Tests	40	40	36	39	40	31	35	14	14
Corsoy 79 (II)	46.3	2	+8.7	2.7	40	1.9	15.3	41.8	18.2
Evans (O)	38.1	5	-7.4	1.8	31	2.2	15.5	40.4	19.8
Hodgson 78 (I)	43.7	4	9-17.4*	2.1	34	2.1	16.2	41.1	19.3
Lakota	45.1	3	+2.0	3.1	41	2.2	15.9	43.1	17.9
A78-123018	47.9	1	+0.2	2.1	32	2.0	15.3	41.2	18.9

*121 days after planting

The highest yielding Group I strains in the test were M74-62 in 1982, A79-135010 in 1981-82, and A78-123018 in 1980-82. M74-62 is resistant to race 1 of *P. megospermia* f. sp. *glycinea*, in other characteristics the three strains are quite similar. The strain M70-187 is resistant to race 3 of the SCN and to PR_1.

UNIFORM TEST I, 1982

Strain	Mean 14 Tests	Ill. DeKalb	Ind. Lafayette	Iowa Corwith	Iowa Knierim	Michigan Britton	Michigan Saginaw
			YIELD (bu/a)				
Corsoy 79 (II)	46.8	58.9	59.7	45.2	51.1	45.7	58.8
Evans (O)	39.2	43.2	38.6	43.2	38.4	39.3	53.4
Hodgson 78 (I)	45.5	54.3	53.9	47.2	46.9	44.9	54.7
Lakota	42.6	48.7	58.6	41.2	44.8	42.8	44.8
Weber	44.7	53.7	55.4	43.8	45.9	42.5	46.6
Weber BC	45.3	52.4	61.0	43.0	49.2	45.0	48.8
A78-123018	45.2	53.7	56.4	42.4	47.1	45.6	43.5
A79-134008	43.2	51.5	56.5	43.4	44.9	44.1	43.0
A79-135010	44.1	51.4	57.4	40.9	45.7	43.9	44.7
A80-144004	44.6	51.8	58.8	43.9	47.3	44.5	45.6
A81-144024	45.8	56.3	55.3	41.7	47.8	45.6	47.6
A81-157024	44.0	49.5	46.3	43.2	48.7	42.2	46.7
LN78-896	45.5	52.8	59.1	44.2	47.8	45.2	49.4
M70-187	39.4	44.7	45.2	40.2	41.6	40.8	42.0
M74-55	46.1	52.9	57.7	48.0	48.4	47.8	57.7
M74-62	47.5	51.2	54.5	47.4	48.9	51.1	54.5
C.V. (%)		7.2	10.2	4.8	4.7	5.4	11.2
L.S.D. (5%)		6.2	9.5	3.0	3.1	4.1	9.2
Row sp. (in.)		30	24	27	27	20	20
Rows/plot		4	4	4	4	4	4
Reps		3	3	4	4	3	3

			YIELD RANK				
Corsoy 79 (II)	2	1	2	4	1	3	1
Evans (O)	16	16	16	9	16	16	5
Hodgson 78 (I)	5	3	13	3	10	8	3
Lakota	14	14	5	14	14	12	12
Weber	9	4	10	7	11	13	10
Weber BC	7	8	1	11	2	7	7
A78-123018	8	4	9	12	9	4	14
A79-134008	13	10	8	8	13	10	15
A79-135010	11	11	7	15	12	11	13
A80-144004	10	9	4	6	8	9	11
A80-144024	4	2	11	13	6	5	8
A81-157024	12	13	14	9	4	14	9
LN78-896	5	7	3	5	6	6	6
M70-187	15	15	15	16	15	15	16
M74-55	3	6	6	1	5	2	2
M74-62	1	12	12	2	3	1	4

UNIFORM TEST I, 1982

Minnesota		Neb.	Pa.	South Dakota		Wis.	Ont.
Lamberton	Waseca	Mead	Landisville	Wilmot	Brookings	Arlington	Ridgetown
			YIELD (bu/a)				
51.1	27.9	46.2	43.8	31.0	53.1	36.6	46.6
46.3	26.5	36.3	29.0	25.3	43.4	39.1	46.7
56.2	29.2	43.8	33.2	30.8	49.5	42.7	49.2
49.2	25.8	47.2	37.1	33.9	49.1	32.7	40.0
55.7	29.7	48.4	35.4	29.9	52.8	40.5	45.8
56.1	28.7	48.3	37.9	32.0	53.7	35.7	41.8
54.4	27.8	48.6	36.4	32.9	56.3	42.9	44.1
46.4	32.8	49.9	32.7	29.2	50.6	35.5	44.5
53.5	30.8	54.8	30.4	33.1	53.4	34.4	42.5
51.6	30.7	50.9	39.1	31.8	49.5	37.7	40.7
51.0	31.2	48.1	36.6	36.3	54.7	40.0	48.8
53.4	33.7	49.6	30.8	32.5	56.0	37.8	45.6
54.9	30.5	49.1	36.6	32.3	52.0	35.8	46.9
48.8	27.4	41.6	30.5	27.9	46.7	36.3	38.0
52.3	31.7	43.7	32.0	30.5	50.5	39.5	53.3
57.3	31.2	46.3	41.0	31.8	55.3	42.6	51.9
7.5	9.5	7.8	8.0	8.2	5.5	5.30	9.23
7.8	6.5	5.1	4.7	4.2	4.6	3.31	5.99
30	30	30	24	38	30	30	24
4	4	4	4	4	4	4	4
3	3	3	3	3	3	3	4

			YIELD RANK				
11	12	12	1	10	7	10	7
16	15	16	16	16	16	7	6
2	10	13	10	11	13	2	4
13	16	10	5	2	14	16	15
4	9	7	9	13	8	4	8
3	11	8	4	7	5	13	13
6	13	6	8	4	1	1	11
15	2	3	11	14	10	14	10
7	6	1	15	3	6	15	12
10	7	2	3	9	12	9	14
12	4	9	6	1	4	5	4
8	1	4	13	5	2	8	9
5	8	5	6	6	9	12	5
14	14	15	14	15	15	11	16
9	3	14	12	12	11	6	1
1	4	11	2	8	3	3	2

UNIFORM TEST I, 1982

Strain	Mean 13 Tests	Ill. DeKalb	Ind. Lafayette	Iowa Corwith	Iowa Knierim	Michigan Britton	Michigan Saginaw
			MATURITY (date)				
Corsoy 79 (II)	+9	+13	+9	+7		+8	+6
Evans (O)	-8	-5	-15	-8		-3	-8
Hodgson 78 (I)	9-20	9-10	8-31	9-22		9-8	9-29
Lakota	+2	+2	0	+2		+2	+1
Weber	+4	+6	-1	+3		+4	+3
Weber BC	+6	+8	+3	+6		+8	+5
A78-123018	0	0	-2	+2		-3	+2
A79-134008	+3	+2	-1	+2		+6	+3
A79-135010	+4	+2	+2	+3		+4	+4
A80-144004	+5	+5	+2	+4		+4	+4
A80-144024	+3	0	-2	+4		+5	+3
A81-157024	+4	+3	-1	+3		+3	+3
LN78-896	+6	+5	+2	+6		+6	+3
M70-187	-1	0	-4	-2		+2	0
M74-55	+4	+3	+4	+3		+5	+2
M74-62	+1	-1	-2	+2		+1	+2
Date planted	5-24	5-13	5-11	6-5	6-2	5-12	6-3
Days to mature	119	120	111	109		119	118

Strain	14 Tests	-	LODGING (score)				
Corsoy 79 (II)	2.6	2.2	2.5	2.5	2.8	2.7	4.0
Evans (O)	1.5	1.8	1.0	1.5	1.8	1.0	1.7
Hodgson 78 (I)	1.9	2.3	1.3	2.1	1.9	1.0	2.7
Lakota	3.0	3.5	2.5	3.1	2.9	2.7	4.3
Weber	2.3	2.8	1.8	2.2	2.2	1.7	4.3
Weber BC	2.5	2.8	2.3	2.6	2.6	2.7	4.7
A78-123018	1.8	2.2	1.2	2.1	2.1	1.0	1.0
A79-134008	1.5	1.8	1.0	1.9	1.8	1.0	2.3
A79-135010	1.7	2.2	1.3	2.0	2.2	1.0	2.0
A80-144004	2.2	2.7	1.5	2.5	2.4	2.0	3.3
A80-144024	1.7	1.7	1.0	2.5	2.0	1.0	1.7
A81-157024	1.6	2.0	1.0	1.9	2.0	1.0	1.7
LN78-896	1.9	2.0	1.0	1.9	2.4	1.0	2.0
M70-187	2.3	2.7	1.2	2.2	2.1	2.0	4.0
M74-55	1.9	2.3	1.3	2.2	2.1	2.0	2.3
M74-62	2.0	2.7	1.0	2.4	2.0	1.3	3.3

UNIFORM TEST I, 1982

Minnesota		Neb.	Pa.	South Dakota		Wis.	Ont.
Lamberton	Waseca	Mead	Landisville	Wilmot	Brookings	Arlington	Ridgetown
			MATURITY (date)				
+13	+12	+8	+8	+6	+8	+11	+9
-9	-3	-7	-5	-9	-8	-8	-12
9-13	9-25	9-23	9-28	9-26	9-29	9-21	9-27
+7	+1	+4	-2	+2	+3	0	+5
+11	+3	+4	+1	+4	+5	+6	+6
+12	+6	+5	+2	+4	+7	+5	+8
+3	0	+1	0	+3	+2	0	-3
-1	+5	+1	+7	+4	+1	+8	+2
+8	+8	+4	+1	+6	+3	+8	+3
+9	+7	+4	+3	+3	+2	+8	+5
+5	+5	+4	+2	+3	+4	+6	0
+6	+6	+3	+3	+4	+3	+8	+2
+9	+7	+6	+10	+6	+6	+8	+7
0	0	-3	+1	0	-1	-2	0
+5	+9	+2	+2	+2	+2	+8	+4
0	+3	+2	+6	0	-1	+2	+2
5-6	6-2	6-3	6-3	5-28	5-24	5-19	5-26
130	115	112	117	121	128	125	124
			LODGING (score)				
3.0	2.0	3.0	1.0	2.0	2.0	2.7	4.0
3.0	1.3	2.0	1.0	1.0	1.0	2.0	1.5
4.0	2.0	1.6	1.0	1.0	1.3	2.0	1.8
4.7	3.0	2.5	1.0	2.3	2.0	2.8	5.0
3.0	1.7	2.2	1.0	1.0	1.0	2.5	4.5
3.0	1.3	2.2	1.0	2.0	1.0	3.2	4.2
3.0	2.0	2.0	1.0	1.0	1.0	2.3	2.8
2.7	1.0	1.3	1.0	1.0	1.0	1.7	2.0
3.0	2.0	1.7	1.0	1.0	1.0	1.8	1.8
3.3	1.7	1.7	1.0	2.0	1.0	2.0	3.2
3.0	1.7	1.8	1.0	1.0	1.0	1.5	2.2
3.0	1.3	1.5	1.0	2.0	1.0	1.5	1.8
3.0	1.7	2.3	2.0	1.0	1.0	2.0	3.5
3.7	2.3	2.3	1.0	2.0	1.0	2.5	3.0
3.0	2.0	1.8	1.0	1.0	1.0	2.0	2.0
3.7	1.7	1.7	1.0	1.0	1.7	1.8	2.8

UNIFORM TEST I, 1982

Strain	Mean 14 Tests	Ill. DeKalb	Ind. Lafayette	Iowa Corwith	Iowa Knierim	Michigan Britton	Michigan Saginaw
			PLANT HEIGHT (inches)				
Corsoy 79 (II)	40	46	38	41	40	36	46
Evans (O)	31	34	23	32	32	29	38
Hodgson 78 (I)	34	36	28	34	32	35	41
Lakota	40	43	38	40	40	39	45
Weber	36	43	34	34	34	32	43
Weber BC	38	43	35	40	36	35	43
A78-123018	31	35	30	30	31	29	33
A79-134008	36	41	33	40	37	33	40
A79-135010	33	39	32	32	36	27	34
A80-144004	35	43	34	36	35	33	40
A80-144024	31	37	27	32	32	26	35
A81-157024	32	39	28	34	34	29	34
LN78-896	34	36	30	39	38	30	37
M70-187	33	39	29	33	32	34	38
M74-55	34	37	30	36	32	33	43
M74-62	33	37	26	34	31	29	39

Strain	11 Tests	-	SEED QUALITY (score)	
Corsoy 79 (II)	1.8	1.2	2.0	1.3
Evans (O)	1.8	1.2	2.0	1.4
Hodgson 78 (I)	2.0	1.2	2.0	1.4
Lakota	2.1	1.4	1.5	1.8
Weber	1.7	1.2	1.0	1.3
Weber BC	1.8	1.2	1.0	1.4
A78-142018	1.9	1.2	1.0	1.4
A79-134008	2.2	1.4	2.0	1.6
A79-135010	2.2	1.3	1.5	1.6
A80-144004	1.8	1.2	1.5	1.3
A80-144024	2.5	1.3	2.0	2.3
A81-157024	2.1	1.2	1.5	1.4
LN78-896	1.9	1.2	1.0	1.3
M70-187	2.0	1.4	2.0	1.4
M74-55	2.0	1.5	1.5	1.3
M74-62	1.8	1.3	1.5	1.4

UNIFORM TEST I, 1982

Minnesota		Neb.	Pa. (State College)	South Dakota		Wis.	Ont.
Lamberton	Waseca	Mead	~~Landisville~~	Wilmot	Brookings	Arlington	Ridgetown
			PLANT HEIGHT (inches)				
43	35	35	31	37	46	40	43
39	23	28	25	29	39	30	36
37	31	30	30	31	42	30	38
45	34	37	36	36	45	36	51
41	30	32	29	31	42	35	44
47	32	34	30	32	43	39	48
34	27	27	28	30	36	27	32
41	33	31	30	32	43	30	40
38	29	33	26	32	40	26	34
39	29	31	28	30	41	30	38
35	26	31	25	29	39	26	35
38	28	31	25	30	41	26	33
40	31	29	30	33	43	26	36
35	29	27	24	30	41	30	36
38	29	29	30	32	40	30	36
37	28	28	29	30	41	30	36
			SEED QUALITY (score)				
2.3	2.0	2.0	2.0	2.0	2.0	1.3	2.0
2.3	2.3	1.8	2.0	3.0	2.0	1.0	1.0
2.3	2.0	1.7	2.0	2.0	3.0	1.0	3.0
2.3	2.7	2.2	2.0	2.0	2.0	2.7	2.0
2.0	2.0	1.3	1.5	2.0	2.0	1.0	3.0
2.3	2.0	2.0	2.0	2.0	3.0	1.0	2.0
2.3	2.7	2.7	2.0	3.0	2.0	1.0	2.0
2.7	3.0	3.3	2.0	3.0	2.0	1.0	2.0
3.0	2.7	2.0	2.5	2.0	2.0	3.0	3.0
2.3	2.3	2.2	2.0	3.0	2.0	1.3	1.0
2.3	2.7	3.8	2.0	3.0	2.0	2.7	3.0
2.3	2.7	3.0	1.5	3.0	3.0	1.3	2.0
2.3	3.0	2.6	2.0	2.0	2.0	1.0	2.0
2.7	2.7	2.2	2.0	3.0	2.0	1.0	2.0
2.3	2.3	2.5	1.5	3.0	2.0	1.7	2.0
2.3	2.3	1.8	1.5	2.0	3.0	1.0	2.0

UNIFORM TEST I, 1982

Strain	Mean 13 Tests	Ill. DeKalb	Ind. Lafayette	Iowa Corwith	Iowa Knierim	Michigan Britton	Michigan Saginaw
			SEED SIZE (g/100)				
Corsoy 79 (II)	14.9	15.4	19.0	14.8		14.1	15.0
Evans (O)	15.2	15.4	18.6	15.3		14.9	16.3
Hodgson 78 (I)	15.6	16.5	18.0	15.6		15.5	16.5
Lakota	14.9	14.3	16.7	14.6		13.6	14.4
Weber	13.0	12.2	13.7	12.4		11.8	12.8
Weber BC	13.2	12.6	14.5	13.0		12.2	12.7
A78-123018	14.5	14.4	16.8	13.4		13.6	13.7
A79-134008	15.1	14.3	17.3	13.8		15.2	14.4
A79-135010	15.7	16.2	17.8	15.1		14.2	15.3
A80-144004	15.6	16.3	18.3	14.4		15.2	15.7
A80-144024	15.7	15.4	17.2	14.8		15.3	15.5
A81-157024	14.8	15.0	16.6	13.0		14.2	14.1
LN78-896	16.0	15.3	18.3	15.8		15.3	15.5
M70-187	14.2	14.6	16.8	13.0		14.1	14.5
M74-55	18.1	17.6	19.7	18.2		17.3	19.1
M74-62	17.8	17.6	20.6	16.8		16.8	18.3

Strain	Mean 5 Tests	Iowa Corwith	Minn. Waseca	S.D. Brookings	Wis. Arlington	Ont. Ridgetown
			PROTEIN (%)			
Corsoy 79 (II)	40.4	39.3	39.6	39.8	41.3	41.9
Evans (O)	39.2	39.5	37.0	39.3	39.8	40.5
Hodgson 78 (I)	39.6	38.7	36.5	39.3	39.4	43.9
Lakota	40.5	41.1	39.4	41.0	41.4	39.6
Weber	39.1	38.2	36.2	39.6	40.3	41.3
Weber BC	39.3	38.8	37.0	39.7	40.3	40.9
A78-123018	38.9	38.6	36.1	39.5	39.4	41.1
A79-134008	40.0	39.7	38.5	40.5	40.2	41.3
A79-135010	40.9	40.5	38.7	41.0	49.9	43.2
A80-144004	38.4	37.8	36.9	38.4	38.5	40.5
A80-144024	39.4	39.3	36.4	39.5	40.3	41.4
A81-157024	39.9	38.3	38.6	41.0	39.9	41.7
LN78-896	40.3	40.1	40.1	39.0	41.3	41.1
M70-187	37.5	38.1	36.3	38.5	38.8	35.9
M74-55	39.9	39.9	38.1	40.3	39.7	41.7
M74-62	39.4	38.8	37.7	39.4	39.7	41.5

UNIFORM TEST I, 1982

Minnesota		Neb.	Pa. (State College)	South Dakota		Wis.	Ont.
Lamberton	Waseca	Mead	~~Landisville~~	Wilmot	Brookings	Arlington	Ridgetown
			SEED SIZE (g/100)				
15.8	14.5	16.0	14.4	13.0	14.6	13.3	14.4
14.8	14.9	16.0	15.8	11.9	14.5	13.9	15.1
15.8	15.6	15.1	15.9	13.0	16.1	14.1	15.2
16.0	15.3	17.7	16.1	13.2	15.6	12.8	13.4
13.1	12.9	13.9	13.0	12.1	13.2	11.5	17.0
13.3	14.1	14.8	13.6	12.9	13.3	12.5	12.2
14.2	14.0	15.9	15.5	11.8	15.0	12.1	18.1
14.4	15.4	16.8	13.8	14.9	15.7	12.3	18.4
17.0	15.7	18.6	14.6	15.1	17.3	13.7	13.2
16.2	16.3	17.6	16.1	14.9	16.3	12.7	13.4
16.2	16.1	16.4	15.7	14.5	16.9	13.6	16.1
16.1	15.8	17.0	14.5	14.1	15.8	12.8	13.1
16.2	17.7	17.4	17.2	14.3	15.8	13.5	15.3
14.8	14.2	16.0	14.8	11.9	13.9	12.0	13.4
18.9	19.0	18.0	18.0	15.4	19.2	16.0	19.1
19.0	19.1	19.1	19.1	14.9	17.1	15.5	17.1

Strain	Mean 5 Tests	Iowa Corwith	Minn. Waseca	S.D. Brookings	Wis. Arlington	Ont. Ridgetown
		OIL (%)				
Corsoy 79 (II)	16.7	18.0	17.4	16.1	16.4	15.4
Evans (O)	18.6	19.2	19.7	18.1	18.6	17.4
Hodgson 78 (I)	18.1	19.3	20.2	17.4	18.7	14.9
Lakota	16.7	16.6	17.1	16.1	16.5	17.2
Weber	17.6	18.4	19.2	16.7	17.4	16.4
Weber BC	17.4	18.1	18.3	17.0	17.7	16.1
A78-123018	18.1	18.5	19.9	17.8	17.8	16.3
A79-134008	17.3	17.7	17.6	17.5	17.3	16.3
A79-135010	16.8	17.6	17.5	16.5	17.3	15.0
A80-144004	18.1	18.6	18.6	18.6	18.3	16.3
A80-144024	17.6	17.9	18.8	17.1	17.4	16.8
A81-157024	17.4	17.5	17.9	17.3	18.3	15.9
LN78-896	16.8	17.2	17.2	16.9	16.9	15.8
M70-187	17.9	17.3	17.7	17.0	17.3	20.2
M74-55	17.8	18.4	18.6	17.3	18.2	16.4
M74-62	19.0	19.0	21.3	18.9	18.7	17.0

PRELIMINARY TEST I, 1982

Strain	Parentage	Generation Composited
1. Corsoy 79 (II)	Corsoy[6] x Lee 68	BC_5F_3
2. Evans (O)	Merit x Harosoy	F_5
3. Hodgson 78 (I)	Hodgson[7] x Merit	BC_6F_3
4. Lakota	AP6M(S1)C1	F_4
5. A80-149020	L69U40-16-4 x A76-304020	F_4
6. A81-151008	Land o'Lakes Max x Asgrow 2656	F_4
7. A81-151026	A75-20418 x Century	F_4
8. A81-152006	A76-304020 x Asgrow 2656	F_4
9. A81-152008	Century x A76-304020	F_4
10. A81-152012	Hardin x A76-202015	F_4
11. A81-153001	A76-202015 x Schechinger S48	F_5
12. A81-153035	A76-202015 x Schechinger S48	F_4
13. A81-154001	Land o'Lakes Max x A75-103019	F_4
14. A81-154010	A76-304020 x A75-103019	F_4
15. A81-155001	A76-202015 x Schechinger S48	F_4
16. A81-156014	A77-116013 x Land o'Lakes Max	F_4
17. A81-157006	Pride B-216[2] x A2	BC_1F_2
18. A81-157011	Pride B-216[2] x A2	BC_1F_2
19. C1602	Wells x C1512	F_6
20. C1614	A73D22 x CX621-318	F_6
21. M74-310	Hodgson[2] x [M65-69 x (Chippewa x Higan)]	F_5
22. M74-403	Hodgson x M67-45	F_5
23. M74-416	Agripro 1235 x 554-8	F_5
24. M74-417	Agripro 1235 x 554-8	F_5
25. M74-462	M65-94 x M68-303	F_5
26. M75-305	M64-157 x M65-115-1	F_5

PRELIMINARY TEST I, 1982

Descriptive and Other Data

Strain	Descriptive Code	Chlorosis Ames	Shattering Manhattan 2 Weeks	BSR Ames Plant	BSR Ames Stem	BSR Lafayette Stem
				n %	n %	n %
Corsoy 79 (II)	PGBr DYY I	4.2	2	100	70.8	60
Evans (O)	WGBr DYY I	2.5	2	100	74.3	0
Hodgson 78 (I)	PGBr DYBf I	2.2	2	100	65.2	60
Lakota	PTT SYBl I	2.7	2	100	66.0	80
A80-149020	PGT DYIb I	2.8	2	100	45.0	0
A81-151008	PTBr SYBl I	2.3	3	100	68.8	40
A81-151026	PTBr DYBf I	1.7	3	100	75.1	40
A81-152006	PTBr IYBl I	2.3	3	95	48.9	20
A81-152008	PTBr SYBl I	3.7	2	100	62.9	20
A81-152012	P+WTBr SYY I	3.8	3	100	60.0	20
A81-153001	WG+TBr IYY I	3.5	2	100	52.5	0
A81-153035	PGBr DYY+Bf I	3.0	2	100	53.8	100
A81-154001	PTBr SYBl I	2.7	2	100	51.8	40
A81-154010	PTBr SYBl I	2.3	2	100	44.0	60
A81-155001	PTBr DYBl I	2.7	2	90	34.8	20
A81-156014	PTBr IYBl I	2.5	2	30	8.3	20
A81-157006	WGBr DYY I	3.3	2	95	45.2	40
A81-157011	WGT DYY I	1.8	2	100	69.7	60
C1602	PTBr IYBl I	3.3	2	100	56.5	40
C1614	PGBr DYY SD	2.8	2	100	51.8	60
M74-310	WGT DYBf I	2.8	2	100	64.0	80
M74-403	PGBr IYBf I	2.3	2	100	34.1	40
M74-416	PGBr DYY I	1.5	2	100	54.8	20
M74-417	PGBr DYBf I	1.8	2	100	54.2	80
M74-462	PGBr DYY I	2.0	3	100	58.1	20
M75-305	WGBr SYBf I	3.0	2	100	82.1	0

PRELIMINARY TEST I, 1982

Disease Data

Strain	PR_1 Lafayette	PR_1 Ames	PR_4 Ames	FE_2	PS	PSB	SMV	Germ
				Lafayette				
	a	a	a	a	a	n	a	
	Reaction			score	%	%	score	%
Corsoy 79 (II)	R	R	S	5	45	2	5E	98
Evans (O)	R	R	S	5	57	12	1	67
Hodgson 78 (I)	R	S	S	5	52	3	3E	94
Lakota	R	S	S	3	55	5	4E	93
A80-149020	R	R	S	3	55	3	2E	92
A81-151008	H	S	S	1	26	2	5E	93
A81-151026	R	S	S	3	64	4	5E	92
A81-152006	R	R	S	4	69	1	5E	96
A81-152008	R	R	S	4	35	2	5E	95
A81-152012	S	H	R	5	51	3	5M	94
A81-153001	S	S	S	5	64	5	5E	94
A81-153035	S	S	S	5	42	3	1	90
A81-154001	S	S	S	4	46	1	5E	94
A81-154010	S	S	R	5	66	0	4E	96
A81-155001	S	S	S	5	24	8	4E	91
A81-156014	S	S	H	4	50	2	5E	91
A81-157006	S	S	R	5	60	1	5E	94
A81-157011	S	S	R	5	89	3	5E	89
C1602	R	R	S	4	71	2	3M	90
C1614	S	S	S	5	55	0	5E	89
M74-310	R	R	S	5	50	2	4E	94
M74-403	S	S	S	5	45	7	1	90
M74-416	R	R	S	5	42	4	5E	90
M74-417	R	R	S	5	91	6	3E	89
M74-462	R	R	S	5	60	2	2M	85
M75-305	S	S	R	5	86	3	3M	95

PRELIMINARY TEST I, 1982

Regional Summary

Strain	Yield	Rank	Maturity	Lodging	Plant Height	Seed Quality	Seed Size	Composition Protein	Composition Oil
No. of Tests	9 bu/a	9 No.	8 Date	9 Score	9 In.	6 Score	8 g/100	5 %	5 %
Corsoy 79 (II)	46.2	7	+11	2.4	40	1.9	14.7	40.2	16.5
Evans (O)	39.8	25	-6	1.5	32	1.9	14.7	38.9	18.9
Hodgson 78 (I)	45.9	9	9-20*	2.0	35	1.8	16.1	38.7	18.6
Lakota	42.7	22	+4	3.1	42	2.3	14.0	41.5	16.0
A80-149020	48.3	1	+8	1.9	36	2.2	15.9	39.5	16.9
A81-151008	44.0	17	+4	2.8	36	2.1	17.6	40.2	17.1
A81-151026	47.3	3	+6	1.7	33	2.0	15.1	40.7	16.9
A81-152006	47.0	4	+7	2.0	39	2.2	17.8	41.5	16.4
A81-152008	43.5	20	+8	1.9	34	2.1	16.0	44.0	15.2
A81-152012	42.3	23	+4	2.6	32	2.3	13.5	41.1	16.3
A81-153001	45.6	10	+6	1.8	31	2.2	16.6	39.7	17.3
A81-153035	45.4	12	+8	1.9	32	1.7	17.2	39.6	16.3
A81-154001	46.1	8	+7	2.3	31	1.9	17.1	41.0	16.9
A81-154010	39.9	24	+8	2.2	33	2.0	17.6	42.3	15.5
A81-155001	46.9	5	+8	2.6	36	2.1	16.1	39.6	16.9
A81-156014	45.6	10	+5	1.9	32	2.0	16.2	40.3	16.8
A81-157006	43.7	18	+8	1.7	33	1.8	14.7	40.6	16.9
A81-157011	44.9	14	+4	1.6	32	2.2	16.8	40.0	17.4
C1602	43.7	18	+7	1.9	39	1.9	16.6	41.3	16.3
C1614	42.8	21	+8	1.8	36	2.2	16.1	40.0	16.6
M74-310	44.4	15	+7	2.1	36	1.9	15.6	39.3	18.6
M74-403	45.4	12	+6	2.2	36	2.0	15.7	39.9	18.2
M74-416	39.0	26	-3	1.3	30	2.6	15.6	40.4	17.0
M74-417	46.4	6	+8	1.8	35	2.6	15.9	38.9	18.6
M74-462	48.2	2	+4	2.1	36	2.1	19.1	38.8	17.4
M75-305	44.2	16	0	1.8	34	2.2	16.9	38.5	18.9

*119 days after planting

Strains maturing 7 or more days later than Hodgson 78 should be moved to UT II for continued evaluation. Of the remaining strains, A81-151026 and M74-462 were superior in yield to Hodgson 78. The strain A81-156014 had moderate resistance to BSR in these tests.

PRELIMINARY TEST I, 1982

Strain	Mean 9 Tests	Iowa		Michigan	
		Corwith	Knierim	Britton	Saginaw
		YIELD (bu/a)			
Corsoy 79 (II)	46.2	47.4	50.6	38.3	60.7
Evans (O)	39.8	43.4	36.9	30.6	51.4
Hodgson 78 (I)	45.9	49.2	45.5	32.2	54.1
Lakota	42.7	43.3	43.4	45.2	48.3
A80-149020	48.3	47.8	51.1	46.4	56.7
A81-151008	44.0	42.8	47.5	36.8	48.9
A81-151026	47.3	49.0	50.3	40.1	52.2
A81-152006	47.0	44.8	44.5	48.0	63.5
A81-152008	43.5	46.2	46.4	45.8	44.5
A81-152012	42.3	42.5	45.1	36.1	45.4
A81-153001	45.6	46.1	49.8	39.7	45.2
A81-153035	45.4	43.7	51.9	36.0	47.5
A81-154001	46.1	44.2	49.1	44.2	50.7
A81-154010	39.9	37.9	44.1	29.4	45.2
A81-155001	46.9	45.1	48.9	51.2	51.9
A81-156014	45.6	42.9	45.4	39.4	56.7
A81-157006	43.7	42.7	46.5	45.0	45.1
A81-157011	44.9	43.2	48.4	40.0	47.1
C1602	43.7	46.4	40.8	34.5	47.8
C1614	42.8	43.1	49.3	42.0	46.7
M74-310	44.4	42.0	49.2	35.1	49.0
M74-403	45.4	42.1	48.2	48.6	46.6
M74-416	39.0	44.6	41.4	36.1	41.6
M74-417	46.4	48.9	54.1	41.0	55.1
M74-462	48.2	49.2	50.0	51.2	53.4
M75-305	44.2	47.2	44.5	55.3	36.9
C.V. (%)		5.3	4.5	19.6	11.7
L.S.D. (5%)		4.8	4.2	16.7	12.0
Row sp. (in.)		27	27	20	20
Rows/plot		4	4	4	4
Reps		2	2	2	2

PRELIMINARY TEST I, 1982

Minnesota		S.D.	Wis.	Ont.
Lamberton	Waseca	Brookings	Arlington	Ridgetown
		YIELD (bu/a)		
57.6	28.9	47.5	36.4	48.8
46.9	22.6	44.8	37.5	43.8
60.0	29.4	55.0	38.1	49.6
47.1	28.4	54.2	32.7	41.3
62.8	31.3	51.9	39.9	47.1
49.2	33.0	51.0	39.1	47.7
60.7	30.9	54.7	39.0	48.6
50.9	32.9	48.8	42.4	47.5
52.8	28.1	47.9	37.0	42.5
48.2	27.2	52.4	38.2	45.2
54.6	33.2	56.2	40.8	45.2
57.0	28.9	54.5	40.6	48.7
56.7	31.3	54.3	39.1	45.5
48.6	27.1	46.3	39.2	41.6
53.9	28.6	56.7	41.4	44.6
59.3	31.5	53.0	39.8	42.3
53.0	30.9	50.0	38.3	41.9
57.7	34.9	53.9	38.5	40.8
55.7	27.8	52.0	39.6	48.7
50.7	28.1	46.9	34.6	44.8
51.8	33.2	51.5	37.3	50.8
53.3	33.1	54.5	40.0	42.6
50.3	28.7	47.3	32.6	28.5
57.0	30.8	56.9	40.2	33.9
52.4	25.3	57.4	44.8	50.4
51.3	29.0	55.2	38.4	40.3
7.8	7.7	5.0	5.0	9.2
11.3	5.4	5.3	3.9	6.0
30	30	30	30	24
2	2	4	4	4
2	2	2	2	4

PRELIMINARY TEST I, 1982

Strain	Mean 9 Tests	Iowa		Michigan	
		Corwith	Knierim	Britton	Saginaw
		YIELD RANK			
Corsoy 79 (II)	7	6	4	17	2
Evans (O)	25	16	26	25	10
Hodgson 78 (I)	9	1	17	24	6
Lakota	22	17	23	8	14
A80-149020	1	5	3	6	3
A81-151008	17	21	14	18	13
A81-151026	3	3	5	13	8
A81-152006	4	12	20	5	1
A81-152008	20	9	16	7	24
A81-152012	23	23	19	19	20
A81-153001	10	10	7	15	22
A81-153035	12	15	2	21	16
A81-154001	8	14	10	10	11
A81-154010	24	26	22	26	21
A81-155001	5	11	11	2	9
A81-156014	10	20	18	16	4
A81-157006	18	22	15	9	23
A81-157011	14	18	12	14	17
C1602	18	8	25	23	15
C1614	21	19	8	11	19
M74-310	15	25	9	22	12
M74-403	12	24	13	4	18
M74-416	26	13	24	20	25
M74-417	6	4	1	12	5
M74-462	2	1	6	3	7
M75-305	16	7	20	1	26

PRELIMINARY TEST I, 1982

Minnesota		S.D.	Wis.	Ont.
Lamberton	Waseca	Brookings	Arlington	Ridgetown
		YIELD RANK		
6	15	22	23	4
26	26	26	20	15
3	13	6	19	3
25	19	11	25	22
1	8	16	8	10
22	5	18	12	8
2	10	7	14	7
19	6	20	2	9
15	20	21	22	17
24	23	14	18	12
11	2	4	4	12
7	15	9	5	5
9	8	10	13	11
23	24	25	11	21
12	18	3	3	15
4	7	13	9	18
14	10	19	17	20
5	1	12	15	23
9	22	15	10	5
20	20	24	24	14
17	2	17	21	1
13	4	8	7	16
21	17	23	26	26
7	12	2	6	25
16	25	1	1	2
18	14	5	16	24

PRELIMINARY TEST I, 1982

Strain	Mean 8 Tests	Iowa		Michigan	
		Corwith	Knierim	Britton	Saginaw
		MATURITY (date)			
Corsoy 79 (II)	+11	+8		+12	+6
Evans (O)	-6	-8		-3	-6
Hodgson 78 (I)	9-20	9-21		9-6	9-30
Lakota	+4	+2		+6	+1
A80-149020	+8	+6		+8	+6
A81-151008	+4	+2		+1	+3
A81-151026	+6	+4		+7	+5
A81-152006	+7	+6		+6	+5
A81-152008	+8	+6		+9	+9
A81-152012	+4	+2		+5	+1
A81-153001	+6	+8		+8	+3
A81-153035	+8	+6		+10	+5
A81-154001	+7	+6		+6	+4
A81-154010	+8	+5		+7	+6
A81-155001	+8	+7		+11	+4
A81-156014	+5	+2		+9	+2
A81-157006	+8	+6		+7	+4
A81-157011	+4	+1		+4	+2
C1602	+7	+5		+6	+4
C1614	+8	+6		+7	+4
M74-310	+7	+5		+11	+4
M74-403	+6	+4		+6	+2
M74-416	-3	-4		+2	-2
M74-417	+8	+6		+9	+4
M74-462	+4	+4		0	+3
M75-305	0	-1		+5	0
Date planted	9-23	6-5	6-2	5-12	6-3
Days to mature	119	108	---	117	119

PRELIMINARY TEST I, 1982

Minnesota		S.D.	Wis.	Ont.
Lamberton	Waseca	Brookings	Arlington	Ridgetown
		MATURITY (date)		
+13	+13	+8	+10	+14
-7	-2	-7	-11	-6
9-13	9-24	9-29	9-24	9-14
+7	+6	+4	+3	+4
+7	+8	+7	+5	+14
+4	+6	+2	+4	+7
+10	+6	+6	+4	+8
+9	+8	+7	+6	+12
+8	+8	+8	+6	+11
+4	+3	+2	+3	+8
+3	+8	+3	+6	+12
+9	+9	+4	+6	+13
+8	+8	+5	+6	+14
+8	+8	+7	+7	+12
+10	+8	+6	+7	+12
+5	+9	+3	+5	+7
+11	+8	+7	+7	+12
+6	+5	+3	+5	+6
+9	+8	+7	+4	+10
+9	+11	+4	+7	+12
+7	+7	+3	+6	+14
+9	+7	+3	+5	+13
-4	0	-7	-7	0
+10	+7	+3	+6	+16
+7	+7	+2	+1	+6
-2	+1	-1	-3	+4
5-6	6-2	5-24	5-19	5-26
130	114	128	128	111

PRELIMINARY TEST I, 1982

Strain	Mean 9 Tests	Iowa		Michigan	
		Corwith	Knierim	Britton	Saginaw
		LODGING (score)			
Corsoy 79 (II)	2.4	2.9	2.9	1.5	3.5
Evans (O)	1.5	1.6	1.5	1.0	1.5
Hodgson 78 (I)	2.0	2.1	2.2	1.0	2.0
Lakota	3.1	3.0	2.8	3.0	5.0
A80-149020	1.9	1.9	2.0	1.5	3.0
A81-151008	2.8	2.6	2.6	2.0	3.0
A81-151026	1.7	1.8	2.0	1.0	2.5
A81-152006	2.0	2.1	2.1	2.0	3.0
A81-152008	1.9	2.4	1.9	2.0	2.0
A81-152012	2.6	2.8	2.6	1.5	4.0
A81-153001	1.8	2.3	2.0	1.0	2.5
A81-153035	1.9	2.3	2.1	1.5	2.0
A81-154001	2.3	2.6	2.2	2.0	3.0
A81-154010	2.2	2.4	2.1	1.5	3.5
A81-155001	2.6	2.4	2.4	2.5	3.5
A81-156014	1.9	1.6	1.8	1.5	2.0
A81-157006	1.7	1.9	2.0	1.0	2.0
A81-157011	1.6	1.6	1.8	1.0	1.5
C1602	1.9	2.2	2.0	1.0	4.0
C1614	1.8	2.3	2.5	1.0	1.5
M74-310	2.1	2.6	2.2	2.0	2.5
M74-403	2.2	2.6	2.6	1.5	2.5
M74-416	1.3	1.4	1.4	1.0	1.5
M74-417	1.8	2.4	2.4	1.0	3.0
M74-462	2.1	2.4	2.3	1.0	3.0
M75-305	1.8	2.0	1.8	1.5	1.5

PRELIMINARY TEST I, 1982

Minnesota		S.D.	Wis.	Ont.
Lamberton	Waseca	Brookings	Arlington	Ridgetown
		LODGING (score)		
3.5	1.5	1.0	2.8	2.0
3.0	1.5	1.0	1.5	1.0
3.5	2.0	1.5	2.3	1.5
4.5	1.5	1.5	3.0	4.0
3.0	1.0	1.0	1.5	2.0
5.0	2.0	1.0	2.5	4.5
2.5	1.0	1.0	1.3	2.0
3.0	1.0	1.0	1.3	2.5
3.0	1.5	1.0	1.8	1.5
3.5	2.5	1.0	2.8	3.0
2.5	1.0	1.0	1.8	2.5
3.0	1.0	1.0	2.0	3.5
3.0	2.0	1.0	2.3	3.0
3.0	2.0	1.0	2.0	2.0
3.0	1.5	1.5	3.0	3.5
2.5	1.5	1.0	2.3	2.5
3.0	1.0	1.0	1.8	2.0
3.0	1.0	1.0	1.8	1.5
3.0	1.0	1.0	1.8	1.0
3.0	1.5	1.0	1.5	1.5
3.0	1.5	1.0	2.3	2.0
3.0	1.5	1.5	2.8	1.5
2.5	1.0	1.0	1.0	1.0
3.0	1.5	1.0	1.3	1.0
3.5	1.5	1.0	2.0	2.5
3.0	1.5	1.5	1.5	1.5

PRELIMINARY TEST I, 1982

Strain	Mean 9 Tests	Iowa		Michigan	
		Corwith	Knierim	Britton	Saginaw
		PLANT HEIGHT (inches)			
Corsoy 79 (II)	40	42	40	36	43
Evans (O)	32	31	30	27	35
Hodgson 78 (I)	35	36	32	30	40
Lakota	42	44	39	40	48
A80-149020	36	39	38	32	42
A81-151008	36	32	37	34	39
A81-151026	33	36	32	27	37
A81-152006	39	42	41	34	42
A81-152008	34	36	34	32	35
A81-152012	32	34	34	26	34
A81-153001	31	32	31	24	35
A81-153035	32	32	31	27	32
A81-154001	31	32	31	29	34
A81-154010	33	34	32	26	37
A81-155001	36	37	36	35	39
A81-156014	32	32	32	28	36
A81-157006	33	32	33	30	36
A81-157011	32	34	31	26	34
C1602	39	44	39	31	48
C1614	36	38	38	30	36
M74-310	36	38	36	34	40
M74-403	36	36	37	33	38
M74-416	30	30	28	24	35
M74-417	35	37	34	30	42
M74-462	36	40	38	32	38
M75-305	34	35	32	29	36

PRELIMINARY TEST I, 1982

Minnesota		S.D.	Wis.	Ont.
Lamberton	Waseca	Brookings	Arlington	Ridgetown
		PLANT HEIGHT (inches)		
46	33	45	37	38
39	24	40	32	34
40	27	41	32	33
47	33	44	36	47
39	31	41	29	36
49	31	38	36	42
36	27	39	29	34
46	35	42	34	39
40	29	41	28	31
34	31	34	29	32
40	25	38	24	33
38	24	38	28	34
36	24	33	27	34
38	28	37	30	32
42	30	40	32	34
34	31	35	30	33
40	30	41	25	31
37	28	40	27	31
44	35	43	34	34
40	31	46	31	37
41	30	42	31	36
39	33	39	32	33
35	26	39	24	26
42	29	41	31	30
40	28	40	33	34
38	28	42	30	36

PRELIMINARY TEST I, 1982

Strain	Mean 6 Tests	Iowa	Minnesota		S.D.	Wis.	Ont.
		Corwith	Lamberton	Waseca	Brookings	Arlington	Ridgetown
			SEED QUALITY (score)				
Corsoy 79 (II)	1.9	1.4	2.3	2.5	2.0	2.0	1.0
Evans (O)	1.9	1.4	2.0	3.0	2.0	1.0	2.0
Hodgson 78 (I)	1.8	1.6	2.3	3.0	1.0	1.0	2.0
Lakota	2.3	2.2	2.3	2.5	2.0	2.5	2.0
A80-149020	2.2	1.8	2.6	2.5	3.0	1.5	2.0
A81-151008	2.1	1.6	1.7	3.0	3.0	1.0	2.0
A81-151026	2.0	1.4	2.3	2.5	3.0	1.0	2.0
A81-152006	2.2	1.4	2.0	3.0	3.0	1.0	3.0
A81-152008	2.1	1.9	2.0	3.0	2.0	1.5	2.0
A81-152012	2.3	1.5	1.5	3.0	3.0	1.5	3.0
A81-153001	2.2	1.4	2.0	3.0	2.0	2.0	3.0
A81-153035	1.7	1.3	2.0	2.0	2.0	1.0	2.0
A81-154001	1.9	1.3	2.0	2.5	3.0	1.5	1.0
A81-154010	2.0	1.3	2.3	2.5	3.0	1.0	2.0
A81-155001	2.1	1.3	2.3	3.0	3.0	1.0	2.0
A81-156014	2.0	1.4	2.0	2.5	3.0	1.0	2.0
A81-157006	1.8	1.4	2.0	2.0	2.0	1.5	2.0
A81-157011	2.2	1.6	2.3	2.5	3.0	1.5	2.0
C1602	1.9	1.4	2.7	2.5	3.0	1.0	1.0
C1614	2.2	1.4	2.7	3.0	2.0	2.0	2.0
M74-310	1.9	1.3	2.0	3.0	2.0	1.0	2.0
M74-403	2.0	1.4	2.7	3.0	3.0	1.0	1.0
M74-416	2.6	1.6	2.5	3.5	3.0	2.0	3.0
M74-417	2.6	1.6	2.7	3.0	3.0	2.0	3.0
M74-462	2.1	1.3	3.0	3.5	2.0	1.0	2.0
M75-305	2.2	1.4	2.0	3.5	3.0	1.0	2.0

PRELIMINARY TEST I, 1982

Strain	Mean 8 Tests	Iowa	Michigan		Minnesota		S.D.	Wis.	Ont.
		Corwith	Britton	Saginaw	Lamber-ton	Waseca	Brook-ings	Arling-ton	Ridge-town
			SEED SIZE (g/100)						
Corsoy 79 (II)	14.7	15.0	14.5	15.4	15.8	14.1	15.1	13.1	14.5
Evans (O)	14.7	14.8	13.9	15.8	15.0	15.5	14.9	13.0	14.4
Hodgson 78 (I)	16.1	15.6	14.3	16.7	15.5	16.3	16.4	13.5	20.4
Lakota	14.0	14.4	14.0	14.6	15.2	13.6	15.3	13.0	12.2
A80-149020	15.9	15.9	15.4	17.3	17.0	16.6	16.1	15.3	13.2
A81-151008	17.6	15.7	16.1	17.0	17.3	16.6	18.1	15.0	25.2
A81-151026	15.1	15.2	14.1	16.3	15.5	16.1	16.3	13.2	14.2
A81-152006	17.8	18.0	17.0	19.4	18.9	19.6	17.2	17.1	15.1
A81-152008	16.0	16.2	15.0	17.0	16.3	16.3	16.4	16.1	14.3
A81-152012	13.5	13.3	13.6	14.1	14.5	12.8	14.3	12.5	13.2
A81-153001	16.6	16.7	15.8	17.2	18.5	17.4	18.4	15.0	14.1
A81-153035	17.2	17.1	16.6	16.4	19.8	17.5	18.0	15.8	16.0
A81-154001	17.1	17.2	15.8	18.4	19.1	17.0	17.7	15.6	16.1
A81-154010	17.6	16.6	16.1	18.4	18.5	17.6	18.3	16.9	18.0
A81-155001	16.1	15.8	15.7	16.9	17.1	16.8	16.5	14.9	15.2
A81-156014	16.2	15.6	15.4	17.3	17.6	16.5	17.3	14.9	15.0
A81-157006	14.7	14.2	13.8	14.4	16.7	15.6	16.1	13.8	13.0
A81-157011	16.8	16.0	16.2	16.9	18.3	18.6	17.5	15.7	15.4
C1602	16.6	17.0	16.2	18.0	18.1	16.8	17.1	16.2	13.4
C1614	16.1	16.2	16.4	15.7	16.9	16.9	17.3	15.6	14.1
M74-310	15.6	14.2	15.4	15.9	16.6	16.1	16.1	13.9	16.5
M74-403	16.7	14.8	15.2	15.8	16.8	16.6	16.6	14.5	15.0
M74-416	15.6	15.4	15.4	15.5	16.1	17.1	16.8	14.8	13.8
M74-417	15.9	15.6	14.9	17.5	16.6	15.5	16.8	14.5	15.8
M74-462	19.1	19.2	17.7	20.2	20.4	19.0	19.5	18.0	19.1
M75-305	16.9	16.4	17.4	17.1	17.3	17.9	18.2	15.3	15.2

PRELIMINARY TEST I, 1982

Strain	Mean 5 Tests	Iowa Corwith	Minn. Waseca	S.D. Brookings	Wis. Arlington	Ont. Ridgetown
			PROTEIN (%)			
Corsoy 79 (II)	40.2	40.1	38.6	40.0	41.0	41.3
Evans (O)	38.9	39.4	38.1	39.1	38.4	39.3
Hodgson 78 (I)	38.7	38.1	37.0	39.8	38.5	39.9
Lakota	41.5	41.1	40.0	40.9	41.6	43.9
A80-149020	39.5	39.8	39.9	38.5	38.3	40.8
A81-151008	40.2	40.0	39.9	39.4	40.7	41.0
A81-151026	40.7	40.9	38.7	40.2	40.7	43.0
A81-152006	41.5	40.8	41.2	41.2	41.5	42.6
A81-152008	44.0	44.5	43.5	43.7	44.0	44.2
A81-152012	44.1	41.2	39.2	40.9	41.2	42.8
A81-153001	39.7	38.9	37.7	39.4	39.2	43.4
A81-153035	39.6	38.2	37.3	39.2	40.5	42.6
A81-154001	41.0	40.2	40.1	39.7	40.9	44.1
A81-154010	42.3	41.7	41.4	42.3	42.7	43.6
A81-155001	39.6	38.5	38.0	39.7	39.5	42.4
A81-156014	40.3	40.7	39.3	39.4	40.3	41.8
A81-157006	40.6	40.6	38.9	41.2	39.6	42.8
A81-157011	40.0	39.5	38.0	40.6	40.1	41.8
C1602	41.3	41.8	40.6	40.7	40.5	42.8
C1614	40.0	39.2	39.3	39.5	40.8	41.0
M74-310	39.3	38.6	37.6	39.4	39.6	41.4
M74-403	39.9	40.5	38.2	39.6	39.4	41.6
M74-416	40.4	40.0	39.7	40.8	40.9	40.4
M74-417	38.9	38.6	38.7	38.9	38.7	39.5
M74-462	38.8	39.2	37.5	38.5	38.1	40.9
M75-305	38.5	38.3	36.2	39.4	38.7	39.9

PRELIMINARY TEST I, 1982

Strain	Mean 5 Tests	Iowa Corwith	Minn. Waseca	S.D. Brookings	Wis. Arlington	Ont. Ridgetown
			OIL (%)			
Corsoy 79 (II)	16.5	17.2	17.1	16.5	15.9	16.0
Evans (O)	18.9	18.7	18.9	19.3	19.6	18.0
Hodgson 78 (I)	18.6	19.3	19.9	18.2	18.5	17.2
Lakota	16.0	17.0	16.5	16.4	15.7	14.3
A80-149020	16.9	17.9	16.8	17.5	17.1	15.4
A81-151008	17.1	17.2	17.9	17.9	16.4	16.1
A81-151026	16.9	16.9	18.3	17.5	16.4	15.3
A81-152006	16.4	17.0	16.3	17.0	16.3	15.6
A81-152008	15.2	15.4	15.8	15.6	15.3	14.1
A81-152012	16.3	16.6	17.0	16.9	15.9	15.2
A81-153001	17.3	18.4	18.7	17.3	17.1	14.8
A81-153035	16.3	17.4	17.1	16.6	15.7	14.5
A81-154001	16.9	17.8	17.3	17.4	17.0	15.1
A81-154010	15.5	16.6	15.5	16.0	15.4	13.8
A81-155001	16.9	17.9	17.5	16.9	17.4	14.7
A81-156014	16.8	17.2	16.9	17.6	16.5	15.6
A81-157006	16.9	17.8	18.1	16.2	17.2	15.1
A81-157011	17.4	17.7	18.9	18.1	17.2	15.3
C1602	16.3	16.0	16.7	16.9	16.5	15.5
C1614	16.6	17.4	16.2	17.4	16.3	15.6
M74-310	18.6	19.4	19.8	18.8	18.0	16.9
M74-403	18.2	18.5	18.8	18.8	18.1	16.7
M74-416	17.0	17.9	17.8	17.2	16.4	15.9
M74-417	18.6	18.8	18.8	19.3	18.4	17.7
M74-462	17.4	17.3	18.8	17.8	17.1	16.2
M75-305	18.9	19.2	20.4	19.0	18.6	17.3

UNIFORM TEST II, 1982

Strain	Parentage	Previous Testing*	Generation Composition
1. Amsoy 71	Amsoy[8] x C1253	1977 UT II	4 BC_7F_3
2. Amsoy 71 BC_6	Amsoy 71[7] x (PI 86972-1 x PI 84637)	-	BC_6F_3
3. Beeson 80	Beeson[8] x Arksoy	1979 UT II	BC_7F_3
4. Beeson 80 BC_6	Beeson 80[7] x (PI 86972-1 x PI 54615-1)	-	BC_6F_3
5. Century	Calland x Bonus	5	F_6
6. Corsoy 79 (II)	Corsoy[6] x Lee 68	4	BC_5F_3
7. Gnome	Williams x Ransom	1	F_4
8. Lakota (I)	AP6M(S1)(C1)	1	F_4
9. Pella (III)	L66L-137 x Calland	3	F_4
10. Wells II	Wells[8] x Arksoy	1979 UT II	BC_7F_3
11. Wells II BC_6	Wells II[7] x (PI 86972-1 x PI 54615-1)	-	$69BC_6F_3$
12. BSR 201 (A78-227013)	Pride B-216 x AX901-40-2	2	F_4
13. A79-133019	AP6(2YT)(F)C1	1	F_4
14. A79-138024	A74-102011 x C1523	1	F_4
15. A80-147002	NKS1492 x Pella	P IIA	F_5
16. A80-147003	NKS1492 x Pella	P I	F_4
17. A80-147005	NKS1492 x A75-204018	P I	F_4
18. A80-244003	NKS1492 x Pella	P IIA	F_4
19. A80-244036	A74-204034 x Cumberland	P IIA	F_4
20. A81-157007	Pride B-216[2] x A2	-	BC_1F_2
21. HC78-523	Harcor x Elf	P IIB	F_5
22. HC78-660	Essex x L74D-619	P IIB	F_5
23. HC78-826	Hodgson x L74D-619	P IIB	F_5
24. HW8008	L69U40-16-4 x Century	P IIA	F_5
25. HW8039	Weber x Pella	P IIA	F_5
26. HW8185	Century[5] x Williams 82	-	BC_4F_3
27. L78-1491	Williams[2] x PI 88.788	P IIB	F_4
28. L78-1738	L75-8016 x F_5 (Williams x PI 88.788)	P IIB	F_4
29. LN78-1136	L70T-543G x K1028	P IIB	F_5

*Number of years in test or name of 1981 test

UNIFORM TEST II, 1982

Descriptive and Other Data

Strain	Descriptive Code	Chlorosis Score Ames	Chlorosis Score Lamberton	Emergence Score Ames	Shattering Manhattan 2 Weeks
Amsoy 71	PGT SYY I	2.3	1	5	3
Amsoy 71 BC_6	PGT SYY I	2.7	2	5	2
Beeson 80	PGBr IYIb I	2.7	1	5	2
Beeson 80 BC_6	PGBr SYIb I	2.5	1	2	3
Century	PTBr IYB1 I	2.5	1	5	2
Corsoy 79 (II)	PGBr DYY I	3.7	3	1	2
Gnome	PTT SYB1 D	3.2	1	1	2
Lakota (I)	PTT SYB1 I	2.5	1	2	2
Pella (III)	PTT DYB1 I	3.7	2	2	3
Wells II	PGBr DYIb I	3.7	1	5	3
Wells II BC_6	PGBr DYIb I	3.0	1	1	3
BSR 201	WGBr DYBf I	4.2	2	3	2
A79-133019	PTBr SYB1 I	3.8	1	5	2
A79-138024	PGBr DYG I	2.8	2	2	3
A80-147002	WGT DYBf I	3.5	4	1	2
A80-147003	WTT DYBr I	3.8	4	1	2
A80-147005	WGBr DYBf I	2.8	1	1	2
A80-244003	P+WTT DYB1 I	4.0	2	1	2
A80-244036	PTT SYB1 I	4.0	5	2	2
A81-157007	WGBr DYY I	2.2	1	3	2
HC78-523	PTT SYB1 D	4.0	1	2	2
HC78-660	PTT DYB1 D	2.0	2	1	2
HC78-826	PTT SYB1 D	2.7	2	1	2
HW8008	PTT DYB1 I	2.7	1	5	2
HW8039	PTBr DYB1 I	3.3	2	2	3
HW8185	PTBr DYBL I	2.8	1	5	2
L78-1491	WTT SYB1 I	2.8	2	5	2
L78-1738	WGT SYBf I	3.7	1	2	2
LN78-1136	WGT SYBf I	3.7	1	5	3

UNIFORM TEST II, 1982

Disease Data

Strain	BSR				PS	PSB	SMV	Germ
	Ames		Lafayette		Lafayette			
	Plant	Stem	Stem	Urbana				
	n %	n %	n %	n score	a %	n %	a score	%
Amsoy 71	100	52.6	60	4	75	0	5E	90
Amsoy 71 BC_6	100	63.2	80	4	82	1	5E	83
Beeson 80	100	65.5	40	3	58	0	1	81
Beeson 80 BC_6	100	61.4	20	3	59	0	2M	**90**
Century	100	72.3	20	4	50	2	5E	**92**
Corsoy 79 (II)	100	51.2	60	4	59	2	5E	96
Gnome	100	66.7	40	1	30	0	1	98
Lakota (I)	100	75.6	80	4	55	5	4E	80
Pella (III)	95	72.0	80	2	43	1	5E	91
Wells II	100	65.0	80	1	68	2	1	85
Wells II BC_6	100	67.4	40	3	87	0	1	80
BSR 201	90	29.7	60	1	81	0	3E	95
A79-133019	100	62.9	80	3	61	0	5E	94
A79-138024	90	43.2	80	3	56	1	5E	94
A80-147002	100	70.2	100	3	93	0	5E	89
A80-147003	100	68.4	60	2	90	1	5E	87
A80-147005	100	97.1	40	3	74	2	5E	97
A80-244003	100	56.4	60	3	33	8	5S	86
A80-244036	100	58.2	60	1	26	7	5E	89
A81-157007	80	40.7	40	2	56	1	3E	96
HC78-523	90	80.6	40	1	30	0	5E	99
HC78-660	90	51.4	0	1	8	0	1	96
HC78-826	80	73.4	20	1	7	3	3E	96
HW8008	100	55.6	0	3	66	2	5E	97
HW8039	100	66.7	60	2	18	3	5E	93
HW8185	100	88.8	60	4	14	1	5E	92
L74-1491	100	75.1	60	2	41	1	5E	97
L78-1738	100	75.2	40	1	35	0	2M	99
LN78-1136	100	70.0	20	2	87	5	4E	93

UNIFORM TEST II, 1982

Disease Data

Strain	FE_2 Lafayette	BP Urbana	PR_1 Lafayette	PR_1 Ames	PR_4 Ames	PR Tolerance Hoytville	PR Tolerance Vickery
	a score	n score	a Reaction	a Reaction	a Reaction	n score	n score
Amsoy 71	5	2.8	R	R	S	4.0	4.8
Amsoy 71 BC_6	4	3.2	R	R	R	3.0	3.0
Beeson 80	1	2.6	R	R	H	3.0	3.0
Beeson 80 BC_6	1	3.0	R	R	R	2.7	2.6
Century	5	1.7	R	R	H	1.3	3.3
Corsoy 79 (II)	5	3.0	R	R	S	2.0	3.4
Gnome	1	1.0	S	S	S	3.3	3.6
Lakota (I)	3	1.0	R	R	S	3.3	3.2
Pella (III)	2	2.5	R	R	S	2.7	3.0
Wells II	2	2.2	R	R	S	4.3	3.2
Wells II BC_6	1	2.5	R	R	R	1.7	3.0
BSR 201	4	1.3	R	R	H	3.0	3.0
A79-133019	5	1.0	S	S	S	3.0	3.0
A79-138024	5	3.4	S	S	S	3.0	3.0
A80-147002	3	1.0	R	R	R	2.0	3.0
A80-147003	4	1.0	R	R	R	2.0	3.0
A80-147005	5	1.0	S	S	S	3.0	3.0
A80-244003	5	2.2	S	H	S	2.0	3.0
A80-244036	5	3.7	R	R	S	3.3	3.0
A81-157007	4	1.3	S	S	S	3.7	3.0
HC78-523	1	1.0	R	S	S	3.7	3.1
HC78-660	1	1.0	S	S	S	3.7	3.2
HC78-826	1	-	S	S	S	3.3	3.8
HW8008	5	3.2	R	R	S	2.3	3.0
HW8039	2	3.9	S	S	S	2.7	3.4
HW8185	5	2.4	H	R	R	2.3	2.9
L78-1491	3	4.7	S	S	S	2.3	3.1
L78-1738	5	2.4	S	S	S	2.7	3.1
LN78-1136	5	1.0	R	R	R	2.7	3.4

UNIFORM TEST II, 1982

Regional Summary

Strain	Yield	Rank	Maturity	Lodging	Plant Height	Seed Quality	Seed Size	Composition Protein	Composition Oil
No. of Tests	24	24	23	24	24	21	23	4	4
	bu/a	No.	Date	Score	In.	Score	g/100	%	%
Amsoy 71	43.7	25	+1	2.2	39	2.1	16.3	38.6	18.8
Amsoy 71 BC_6	44.5	23	+1	2.0	38	2.0	16.7	38.8	19.0
Beeson 80	45.3	18	0	1.5	34	1.7	18.5	39.3	18.1
Beeson 80 BC_6	45.1	19	0	1.8	34	2.0	19.1	39.8	17.9
Century	46.6	14	+2	1.5	36	1.9	18.0	40.6	18.2
Corsoy 79 (II)	47.5	10	9-22*	2.3	39	1.7	14.7	39.8	18.5
Gnome	44.9	20	+5	1.7	24	1.6	15.1	40.8	18.0
Lakota (I)	41.6	26	-7	2.9	40	2.2	14.6	41.4	17.7
Pella (III)	47.9	8	+4	1.6	37	1.8	18.7	37.6	19.2
Wells II	39.3	29	-1	1.4	33	2.2	15.0	39.5	18.6
Wells II BC_6	43.9	24	-5	1.6	35	2.8	15.5	41.2	18.2
BSR 201	45.8	17	0	2.2	33	1.7	15.0	40.2	17.8
A79-133019	48.0	7	-1	1.7	31	1.8	16.1	37.4	19.0
A79-138024	46.7	13	-1	1.6	32	2.2	17.5	38.8	18.2
A80-147002	48.9	2	+1	2.1	33	2.2	15.1	38.9	18.8
A80-147003	47.0	12	-1	1.8	34	2.0	16.0	39.3	18.7
A80-147005	46.0	15	-2	1.7	32	1.9	16.7	37.2	20.7
A80-244003	48.6	3	0	2.2	38	1.8	15.7	38.9	18.9
A80-244036	49.1	1	0	2.5	33	1.8	19.4	37.7	19.5
A81-157007	46.0	15	0	1.4	33	1.7	15.9	39.0	18.4
HC78-523	47.5	10	+3	1.7	25	1.8	13.3	40.4	18.2
HC78-660	44.6	22	+5	2.2	26	1.5	15.9	41.8	18.2
HC78-826	44.7	21	+3	1.6	28	1.7	14.6	40.6	19.7
HW8008	48.1	6	-2	1.5	34	1.9	17.6	39.6	19.4
HW8039	48.5	4	+1	1.5	35	1.8	17.1	39.4	18.9
HW8185	47.5	9	+1	1.4	35	1.7	17.4	41.2	17.8
L78-1491	41.2	27	+3	1.7	35	1.7	14.3	40.4	18.0
L78-1738	41.1	28	+3	2.2	35	1.6	13.5	42.2	17.0
LN78-1136	48.5	4	0	1.3	33	1.8	16.5	38.5	19.4

*123 days after planting

UNIFORM TEST II, 1982

1981-1982 2-year means

Strain	Yield	Rank	Matu-rity	Lodg-ing	Plant Height	Seed Quality	Seed Size	Composition Protein	Oil
No. of Tests	46 bu/a	46 No.	44 Date	46 Score	46 In.	40 Score	44 g/100	10 %	10 %
Century	47.1	4	+2.5	1.6	36	1.9	18.1	41.6	18.5
Corsoy 79 (II)	47.0	5	9-20.0*	2.4	38	1.7	15.0	41.3	18.9
Gnome	44.9	7	+5.5	1.7	24	1.6	15.6	41.9	18.6
Lakota (I)	41.9	8	-6.5	3.0	39	2.1	15.1	42.6	18.3
Pella (III)	48.9	1	+5.0	1.8	37	1.8	19.1	39.2	19.7
BSR 201	46.5	6	+0.5	2.3	33	1.7	15.3	41.4	18.3
A79-133019	48.6	2	-0.5	1.8	31	1.8	16.7	39.0	19.4
A79-138024	48.0	3	-0.5	1.8	32	2.3	18.4	39.8	18.7

*123 days after planting

1980-1982 3-year means

No. of Tests	68	68	65	67	68	59	63	15	15
Century	47.2	2	+3.0	1.7	36	2.0	18.2	42.0	19.3
Corsoy 79 (II)	46.8	3	9-20.7*	2.5	38	1.8	15.1	41.3	20.0
Pella (III)	48.0	1	+5.3	1.8	38	1.9	19.2	39.2	20.5
BSR 201	46.7	4	+0.3	2.3	34	1.8	15.5	41.5	19.3

*124 days after planting

The strains A79-133019 and A79-138024 had the highest 2-year yields of the Group II entries in the test. The two strains are very similar in other characteristics except that A79-133019 has a poorer emergence score and appears to be more resistant to bacterial pustule than A79-138024. A80-244036 was the highest yielding entry in the 1982 test but was quite susceptible to lodging and to iron chlorosis. Two strains resistant to races 3 and 4 of the SCN, L78-1491 and L78-1738 were not equal in yield to most of the other etnries in the test.

UNIFORM TEST II, 1982

Strain	Mean 24 Tests	Illinois				Indiana		
		Urbana	Girard	DeKalb	Pontiac	Lafay-ette	Bluff-ton	Green-field
		YIELD (bu/a)						
Amsoy 71	43.7	55.2	45.8	53.5	42.3	63.7	36.3	38.9
Amsoy 71 BC_6	44.5	53.2	43.9	53.7	35.6	68.9	51.7	45.1
Beeson 80	45.3	52.8	46.6	56.1	45.5	62.9	49.3	41.5
Beeson 80 BC_6	45.1	52.9	46.6	51.4	42.3	59.0	50.6	41.7
Century	46.6	54.5	47.7	56.8	44.9	65.0	53.0	36.9
Corsoy 79 (II)	47.5	58.8	45.0*	58.9	45.2	65.5	49.0	50.0
Gnome	44.9	61.8	34.7	55.5	42.4	67.6	44.6	40.8
Lakota (I)	41.6	52.4	44.3	52.2	39.8	57.6	39.4	36.4
Pella (III)	47.9	59.7	51.8	61.0	45.0	72.3	47.5	46.2
Wells II	39.3	51.1	43.0	53.2	42.0	62.9	47.5	40.4
Wells II BC_6	43.9	53.4	43.3	50.5	45.4	62.8	42.8	42.9
BSR 201	45.8	58.5	42.5	55.3	42.3	69.0	46.0	36.5
A79-133019	48.0	58.6	48.9	62.6	43.2	66.8	49.9	44.8
A79-138024	46.7	61.7	46.7	56.0	47.5	63.1	44.9	38.1
A80-147002	48.9	57.6	49.0	60.4	45.0	69.1	52.0	38.7
A80-147003	47.0	57.7	45.8	55.2	44.7	66.8	45.1	43.6
A80-147005	46.0	57.4	48.7	58.5	43.4	64.0	39.0	28.2
A80-244003	48.6	62.9	50.4*	56.5	45.1	68.4	43.7	37.9
A80-244036	49.1	63.1	48.4	59.6	47.1	70.4	44.7	49.0
A81-157007	46.0	60.6	50.9	57.6	46.5	62.9	45.2	37.0
HC78-523	47.5	63.7	30.3	61.9	44.3	63.7	45.4	41.1
HC78-660	44.6	62.5	32.7	54.8	43.0	66.5	41.4	42.6
HC78-826	44.7	57.6	38.4	55.1	46.2	67.8	42.4	40.4
HW8008	48.1	57.8	44.9*	57.8	42.7	62.0	47.3	39.2
HW8039	48.5	60.9	50.8	59.6	51.2	68.5	45.2	42.9
HW8185	47.5	55.4	48.8*	63.4	46.0	70.6	50.5	46.7
L78-1491	41.2	48.4	38.3	52.3	43.6	65.1	43.5	37.4
L78-1738	41.1	48.9	37.3	53.6	43.0	58.0	40.8	35.4
LN78-1136	48.5	63.1	45.7*	62.1	46.8	68.8	45.7	34.1
C.V. (%)		4.0	5.8	6.4	8.3	7.1	10.0	11.9
L.S.D. (5%)		3.7	4.2	5.9	6.0	7.5	7.5	7.9
Row sp. (in.)		30	30	30	30	24	30	30
Rows/plot		4	4	4	4	4	3	3
Reps		3	3	3	3	3	3	3

*Calculated missing plot (water damage in corner field)

UNIFORM TEST II, 1982

Iowa		KS	Michigan		Minnesota		NE	NJ
Marshall-town	Ames	Man-hattan	Britton	Saginaw	Lamber-ton	Waseca	Mead	Adel-phia
			YIELD (bu/a)					
44.0	48.6	43.3	45.3	53.2	47.7	27.0	50.1	41.5
44.7	47.3	42.1	40.5	48.0	46.7	26.7	50.3	45.0
44.6	48.7	39.2	47.6	54.9	49.1	30.9	52.5	43.1
45.2	46.9	41.7	44.2	53.1	48.8	30.5	52.9	43.6
48.1	49.0	47.3	42.1	53.9	44.9	31.1	54.8	47.7
46.4	49.7	47.8	45.2	50.8	50.7	31.7	50.5	41.7
45.3	50.4	53.4	46.9	41.9	49.3	25.1	55.3	45.8
39.9	43.0	46.4	39.9	44.4	40.5	28.1	47.2	38.2
46.9	52.8	49.6	43.6	53.4	48.6	31.0	57.0	44.0
43.7	46.4	38.9	40.5	35.2	43.9	22.5	45.2	36.8
41.7	44.0	42.4	43.8	50.5	47.0	31.3	49.0	43.2
43.8	50.0	46.0	49.2	52.2	51.2	27.9	52.9	43.1
47.6	53.9	49.6	40.8	54.1	52.8	30.1	58.3	41.1
48.3	47.2	43.7	43.4	56.5	51.2	30.6	51.5	47.2
46.7	54.7	51.3	50.7	56.4	49.5	30.9	59.9	45.6
45.9	50.7	53.7	41.1	55.1	47.2	32.4	56.9	45.3
47.1	52.9	51.2	41.1	43.2	51.8	33.2	58.5	43.5
47.0	54.1	48.7	45.1	59.3	53.9	33.2	55.5	47.2
48.6	53.1	48.7	44.9	58.4	53.6	30.9	53.0	40.5
47.0	49.5	49.0	45.1	46.7	44.9	29.3	56.8	44.8
48.6	49.7	53.5	54.9	54.4	54.2	31.6	57.2	44.4
45.3	47.2	49.7	40.7	51.3	46.7	25.4	49.6	44.4
44.5	50.3	45.5	44.6	44.3	47.7	25.7	49.5	42.4
47.5	50.9	44.8	50.8	56.7	55.3	35.7	55.5	46.8
46.6	53.6	48.7	50.1	52.7	53.6	30.5	54.9	46.2
46.9	52.1	46.0	46.2	56.5	48.1	32.6	52.1	45.5
42.4	45.9	40.0	41.7	43.4	43.6	27.4	45.5	39.9
40.7	46.5	45.6	42.0	37.3	44.0	25.7	46.3	38.2
49.2	55.5	49.2	48.5	51.8	52.2	32.8	58.0	45.8
4.0	4.8	6.9	15.7	9.7	7.5	8.9	5.1	5.8
2.6	3.4	5.3	11.6	8.1	6.6	4.5	4.5	5.0
27	27	30	20	20	30	30	30	30
4	4	4	4	4	4	4	4	3
4	4	3	3	3	3	3	3	4

UNIFORM TEST II, 1982

Strain	Ohio		State College Pa.	S.D.		Wis.	Ontario	
	Hoyt-ville	Wooster	~~Landis-ville~~	Brook-ings	Center-ville	Arling-ton	Harrow	Ridge-town
			YIELD (bu/a)					
Amsoy 71	30.7	39.2	37.1	44.2	39.6	32.8	41.2	46.9
Amsoy 71 BC_6	42.6	39.9	34.4	46.9	39.2	34.4	41.8	45.4
Beeson 80	43.8	36.2	27.6	45.1	40.6	38.8	45.6	43.7
Beeson 80 BC_6	45.8	37.4	32.2	45.6	42.8	37.5	44.6	45.2
Century	49.1	38.3	35.9	44.5	45.4	37.0	45.0	45.0
Corsoy 79 (II)	45.8	38.1	33.7	55.2	40.3	39.2	46.8	53.9
Gnome	39.2	36.4	37.9	44.3	43.9	35.6	37.9	42.4
Lakota (I)	35.9	36.9	31.3	49.1	40.1	30.3	42.1	42.1
Pella (III)	45.0	42.4	34.2	43.6	48.7	36.0	46.8	45.8
Wells II	30.9	31.4	28.6	35.2	14.6	21.9	45.0	42.1
Wells II BC_6	44.8	36.6	29.5	46.3	40.1	34.3	46.8	41.9
BSR 201	44.0	40.7	34.9	43.8	40.9	36.7	47.3	45.0
A79-133019	42.6	40.2	32.6	52.4	48.2	37.8	45.4	49.6
A79-138024	47.6	39.8	29.6	49.2	44.0	39.0	47.5	46.2
A80-147002	48.4	43.7	34.3	54.3	44.4	35.1	49.0	47.6
A80-147003	44.3	38.9	35.3	47.3	44.1	37.3	48.1	45.9
A80-147005	41.0	40.6	37.4	49.7	43.1	34.1	49.2	47.4
A80-244003	50.2	43.0	35.8	47.8	45.9	38.7	48.5	47.5
A80-244036	39.3	45.7	30.5	60.3	48.6	41.2	49.2	50.3
A81-157007	40.9	37.5	29.3	47.7	40.9	38.4	49.2	47.4
HC78-523	37.7	44.0	37.1	49.3	44.2	35.7	44.2	48.9
HC78-660	38.9	38.5	44.3	44.0	41.9	36.3	39.9	43.8
HC78-826	39.5	38.7	39.5	47.3	41.1	35.7	43.0	46.7
HW8008	42.9	46.7	35.6	52.1	45.4	39.2	47.4	48.6
HW8039	48.4	45.5	27.1	48.0	46.7	35.8	47.8	48.8
HW8185	48.4	41.4	26.5	47.6	41.0	35.2	44.1	48.8
L78-1491	39.0	34.8	30.2	39.1	39.3	31.9	37.4	37.6
L78-1738	43.9	32.2	33.1	42.3	37.8	33.6	39.6	41.2
LN78-1136	48.6	42.8	27.9	53.8	45.3	33.3	49.8	52.2
C.V. (%)	14.4	11.3	10.6	8.4	7.0	6.3	5.2	7.5
L.S.D. (5%)	10.2	7.3	5.8	6.4	4.8	3.7	3.3	4.9
Row sp. (in.)	20	30	24	30	30	30	24	24
Rows/plot	5	4	4	4	4	4	4	4
Reps	3	3	3	3	3	3	4	4

UNIFORM TEST II, 1982

Strain	Mean 24 Tests	Illinois				Indiana		
		Urbana	Girard	DeKalb	Pontiac	Lafay-ette	Bluff-ton	Green-field
		YIELD RANK						
Amsoy 71	25	20	14	24	24	19	29	18
Amsoy 71 BC_6	23	23	20	22	29	6	3	5
Beeson 80	18	25	12	15	8	22	7	12
Beeson 80 BC_6	19	24	12	28	24	27	4	11
Century	14	21	10	13	14	17	1	24
Corsoy 79 (II)	10	11	17	9	10	15	8	1
Gnome	20	6	27	17	23	11	20	14
Lakota (I)	26	26	19	27	28	29	27	26
Pella (III)	8	10	1	5	12	1	9	4
Wells II	29	27	22	25	27	23	9	15
Wells II BC_6	24	22	21	29	9	25	23	9
BSR 201	17	13	23	18	24	5	12	25
A79-133019	7	12	6	2	19	12	6	6
A79-138024	13	7	11	16	2	21	18	20
A80-147002	2	16	5	6	12	4	2	19
A80-147003	12	15	14	19	15	13	17	7
A80-147005	15	18	8	10	18	18	28	29
A80-244003	3	4	4	14	11	9	21	21
A80-244036	1	2	9	7	3	3	19	2
A81-157007	15	9	2	12	5	24	15	23
HC78-523	10	1	29	4	16	20	14	13
HC78-660	22	5	28	21	20	14	25	10
HC78-826	21	16	24	20	6	10	24	16
HW8008	6	14	18	11	22	26	11	17
HW8039	4	8	3	7	1	8	16	8
HW8185	9	19	7	1	7	2	5	3
L78-1491	27	29	25	26	17	16	22	22
L78-1738	28	28	26	23	20	28	26	27
LN78-1136	4	2	16	3	4	7	13	28

UNIFORM TEST II, 1982

Strain	Iowa		KS	Michigan		Minnesota		NE	NJ
	Marshall-town	Ames	Man-hattan	Britton	Saginaw	Lamber-ton	Waseca	Mead	Adel-phia
				YIELD RANK					
Amsoy 71	23	20	23	10	13	18	23	23	23
Amsoy 71 BC_6	20	21	25	27	21	22	24	22	11
Beeson 80	21	19	28	7	8	14	12	18	20
Beeson 80 BC_5	19	24	26	16	14	15	16	16	16
Century	5	18	15	20	11	24	10	14	1
Corsoy 79 (II)	15	15	14	11	19	11	7	21	22
Gnome	17	12	3	8	27	13	28	11	6
Lakota (I)	29	29	16	29	23	29	20	27	28
Pella (III)	11	8	7	18	12	16	11	6	15
Wells II	25	26	29	28	29	27	29	30	29
Wells II BC_6	27	28	24	17	20	21	9	26	18
BSR 201	24	14	17	5	16	9	21	17	19
A79-133019	6	4	7	25	10	6	18	3	24
A79-138024	4	22	22	19	5	9	15	20	2
A80-147002	13	2	4	3	6	12	12	1	8
A80-147003	16	11	1	23	7	20	6	7	10
A80-147005	8	7	5	24	26	8	2	2	17
A80-244003	9	3	11	12	1	3	2	9	3
A80-244036	2	6	11	14	2	4	12	15	25
A81-157007	9	17	10	13	22	24	19	8	12
HC78-523	2	15	2	1	9	2	8	5	13
HC78-660	17	22	6	26	18	22	27	24	14
HC78-826	22	13	20	15	24	18	25	25	21
HW8008	7	10	21	2	3	1	1	10	4
HW8039	14	5	11	4	15	4	16	13	5
HW8185	11	9	18	9	4	17	5	19	9
L78-1491	26	27	27	22	25	28	22	29	26
L78-1738	28	25	19	21	28	26	25	28	27
LN78-1136	1	1	9	6	17	7	4	4	6

UNIFORM TEST II, 1982

Ohio		Pa.	S.D.		Wis.	Ontario	
Hoyt-ville	Wooster	~~Landis-ville~~ State College	Brook-ings	Center-ville	Arling-ton	Harrow	Ridge-town
			YIELD RANK				
29	15	5	23	25	26	25	13
17	13	12	17	27	21	24	18
15	26	27	20	21	5	15	23
8	21	18	19	15	9	19	19
2	19	7	21	7	11	18	20
8	20	15	2	22	3	12	1
23	25	3	22	13	18	28	24
27	23	19	10	23	28	23	25
10	8	14	26	1	14	12	17
28	29	25	29	29	29	17	25
11	24	23	18	24	22	12	27
13	10	11	25	20	12	11	20
18	12	17	5	3	8	16	4
7	14	22	9	12	4	9	15
4	5	13	3	9	20	5	9
12	16	10	15	11	10	7	16
19	11	4	7	14	23	2	11
1	6	8	12	5	6	6	10
22	2	20	1	2	1	2	3
20	21	24	13	19	7	2	11
26	4	5	8	10	17	20	5
25	18	1	24	16	13	26	22
21	17	2	16	17	16	22	14
16	1	9	6	6	2	10	8
4	3	28	11	4	15	8	6
4	9	29	14	18	19	21	9
24	27	21	28	26	27	29	29
14	28	16	27	28	24	27	28
3	7	26	4	8	25	1	2

UNIFORM TEST II, 1982

Strain	Mean 23 Tests	Illinois				Indiana		
		Urbana	Girard	DeKalb	Pontiac	Lafay-ette	Bluff-ton	Green-field
				MATURITY (date)				
Amsoy 71	+1	0	0	+1	0	+3	0	+2
Amsoy 71 BC_6	+1	+1	-1	+1	0	+2	0	+1
Beeson 80	0	+1	-1	-2	-6	+3	+1	0
Beeson 80 BC_6	0	0	-1	-2	-5	+1	+1	+1
Century	+2	+2	0	+1	-2	+4	+2	+3
Corsoy 79 (II)	9-22	9-12	9-6	9-23	9-26	9-7	9-14	9-4
Gnome	+5	+7	+9	+3	+2	+7	+2	+5
Lakota (I)	-7	-5	-8	-11	-9	-5	-3	+1
Pella (III)	+4	+5	+3	+4	0	+6	+4	+7
Wells II	-1	-3	-3	-4	-4	-1	+1	+1
Wells II BC_6	-5	-4	-4	-7	-6	-3	-1	+1
BSR 201	0	0	-3	0	-3	+3	+1	+1
A79-133019	-1	-1	-2	-3	-2	+3	+1	+1
A79-138024	-1	-1	-4	-3	-5	0	0	+1
A80-147002	+1	+1	-2	+1	-4	+3	+1	+2
A80-147003	-1	-3	-4	-1	-4	+1	0	+1
A80-147005	-2	-3	-5	-3	-7	0	0	0
A80-244003	0	-2	-3	+1	-4	+3	-1	+3
A80-244036	0	-1	-3	-3	-3	+1	0	+2
A81-157007	0	0	-3	0	-6	+2	+1	+2
HC78-523	+3	+4	+5	0	-2	+7	+1	+4
HC78-660	+5	+8	+4	+3	+1	+7	+5	+4
HC78-826	+3	+7h	+4	+1	0	+7	+1	+2
HW8008	-2	-4	-5	-4	-6	-1	0	+1
HW8039	+1	+1	-1	-1	-4	+4	+2	+3
HW8185	+1	0	-2	-1	-5	+2	+1	+3
L78-1491	+3	+2	+2	+2	-1	+6	+2	+5
L78-1738	+3	+1	0	+2	-1	+6	+2	+2
LN78-1136	0	0	-5	0	-5	+3	+1	0
Date planted	5-21	5-16	5-10	5-13	6-8	5-11	5-15	5-13
Days to mature	123	119	119	133	110	119	122	109

UNIFORM TEST II, 1982

Iowa		KS	Michigan		Minnesota		NE	NJ
Marshall-town	Ames	Man-hattan	Britton	Saginaw	Lamber-ton	Waseca	Mead	Adel-phia
			MATURITY (date)					
	+6	-1	0	+1	+3	+4	+1	-3
	+3	-4	+1	+2	+3	+5	0	-1
	0	-6	+3	+4	+2	+5	0	-1
	-1	-5	+4	-1	+2	+7	+1	0
	+4	-4	+4	+5	+3	+2	+2	-1
	9-15	9-23	9-16	10-6	9-24	10-8	9-29	9-23
	+10	+3	+6	+1	+6	+10	+5	+1
	-12	-6	-8	-5	-8	-6	-4	-8
	+9	+2	+4	+5	+6	+9	+6	0
	-4	-5	+1	+2	+1	+2	-1	-1
	-9	-7	-5	-3	-5	-2	-3	-9
	0	-4	+1	-1	+3	+2	0	-1
	0	-7	0	0	+1	+3	+1	0
	-5	-4	+1	+2	+1	+1	-1	-1
	+4	-5	+3	+2	+2	+1	+2	0
	+1	-2	-4	+1	+1	0	0	-1
	-6	-3	-2	+1	0	+1	0	-3
	+1	-4	0	+3	+2	+4	0	-1
	-1	+1	+1	0	+2	+2	+3	-1
	-2	-6	-2	+3	+1	+5	0	-1
	+7	+1	+4	+1	+5	+5	+2	+1
	+8	+7	+5	+4	+6	+10	+5	+1
	+8	-3	+5	+1	+6	+7	+2	+1
	-4	-1	-1	+1	0	0	-1	-2
	0	0	+2	+3	+2	+3	+4	0
	+2	-3	+2	+3	+2	+1	+1	0
	+8	+1	+4	+2	+4	+11	+1	+1
	+8	+2	+3	+1	+5	+9	+3	+1
	-1	-2	+2	+4	+2	+3	+3	0
6-4	5-3	6-11	5-12	5-27	5-6	6-2	6-5	6-7
	119	104	127	132	141	128	116	108

UNIFORM TEST II, 1982

Strain	Ohio		Pa.	S.D.		Wis.	Ontario	
	Hoyt-ville	Wooster	~~Landis-ville~~ State College	Brook-ings	Center-ville	Arling-ton	Harrow	Ridge-town
			MATURITY (date)					
Amsoy 71	+2	+1	+6	+3	+1	-1	-1	+1
Amsoy 71 BC_6	+1	0	0	+3	+1	+1	-1	0
Beeson 80	+2	0	+2	+4	+4	-2	-6	0
Beeson 80 BC_6	+2	0	0	+3	+2	-2	-4	-1
Century	+4	+4	+5	+4	+3	+2	-3	-1
Corsoy 79 (II)	9-7	9-12	10-4	10-7	9-29	10-2	10-4	10-5
Gnome	+6	+4	+7	+3	+6	0	+2	+1
Lakota (I)	-2	-6	-7	-5	-6	-6	-12	-10
Pella (III)	+5	+4	+4	+4	+9	+1	0	0
Wells II	+2	0	+5	+2	-	-3	-5	-2
Wells II BC_6	-1	-4	-5	0	-5	-4	-9	-10
BSR 201	+2	0	+6	+2	+2	-2	-3	-1
A79-133019	0	-1	-3	0	+4	-1	-5	-2
A79-138024	0	+1	+4	+1	+2	-2	-5	0
A80-147002	+1	0	+6	+2	+2	0	-4	0
A80-147003	0	-3	+4	0	+1	-1	-6	-1
A80-147005	0	-1	-1	-1	0	-3	-6	-4
A80-244003	+2	0	+1	+2	+1	-1	-4	-2
A80-244036	0	-2	+3	+1	+4	-1	-4	-2
A81-157007	+1	0	+3	+2	+1	-1	-5	-2
HC78-523	+3	+1	+8	+3	+4	-1	0	0
HC78-660	+5	+4	+9	+2	+6	+1	+3	+2
HC78-826	+4	+2	+9	+4	+3	+1	+2	+1
HW8008	0	-2	+2	0	0	-1	-7	-3
HW8039	+3	+1	+1	+3	+4	-2	-3	-1
HW8185	+2	+2	+3	+4	+2	+1	-5	-2
L78-1491	+4	+2	+6	+3	+6	+2	-1	0
L78-1738	+3	+2	+5	+3	+5	+2	-2	+2
LN78-1136	+4	+2	+3	0	+2	-1	-4	0
Date planted	5-4	5-10	6-9	5-24	6-3	5-19	5-31	5-26
Days to mature	126	125	117	136	118	136	126	132

UNIFORM TEST II, 1982

Strain	Mean 24 Tests	Illinois				Indiana		
		Urbana	Girard	DeKalb	Pontiac	Lafay-ette	Bluff-ton	Green-field
		LODGING (score)						
Amsoy 71	2.2	3.8	3.3	2.3	2.2	2.0	1.0	1.2
Amsoy 71 BC_6	2.0	3.8	3.3	2.2	1.5	2.0	1.2	1.5
Beeson 80	1.5	2.2	1.6	1.7	1.3	1.8	1.0	1.3
Beeson 80 BC_6	1.8	3.0	2.1	2.2	1.5	1.7	1.0	1.2
Century	1.5	2.3	2.3	2.0	1.2	1.5	1.0	1.0
Corsoy 79 (II)	2.3	4.0	2.8	2.2	2.0	2.0	1.2	1.3
Gnome	1.7	1.3	1.0	1.3	1.5	1.5	1.2	1.3
Lakota (I)	2.9	4.8	4.0	3.5	2.5	2.2	1.5	1.5
Pella (III)	1.6	1.7	2.0	2.0	1.5	1.7	1.0	1.0
Wells II	1.4	1.6	1.2	1.3	1.2	1.5	1.0	1.0
Wells II BC_6	1.6	2.5	1.7	2.2	1.3	1.3	1.0	1.2
BSR 201	2.2	3.2	3.8	2.5	1.8	2.0	1.0	1.2
A79-133019	1.7	3.4	2.3	2.0	1.5	2.0	1.2	1.5
A79-138024	1.6	2.3	1.7	1.8	1.5	1.5	1.0	1.0
A80-147002	2.1	3.4	3.3	2.3	1.8	2.2	1.2	1.0
A80-147003	1.8	3.0	2.2	2.0	1.8	2.2	1.0	1.2
A80-147005	1.7	2.7	2.0	1.8	1.5	1.7	1.0	1.2
A80-244003	2.2	3.3	2.3	2.7	2.0	2.0	1.0	1.5
A80-244036	2.5	4.0	3.4	3.0	2.5	2.5	1.5	1.3
A81-157007	1.4	2.0	1.5	1.5	1.5	1.5	1.0	1.0
HC78-523	1.7	1.3	1.0	1.5	1.5	1.5	1.0	1.3
HC78-660	2.2	2.2	1.0	1.5	1.5	1.5	1.0	1.2
HC78-826	1.6	2.4	1.0	1.5	1.5	1.5	1.3	1.7
HW8008	1.5	2.5	1.5	1.7	1.2	1.5	1.0	1.2
HW8039	1.5	2.1	1.8	2.0	1.3	1.8	1.0	1.2
HW8185	1.4	2.1	1.6	1.7	1.3	1.7	1.0	1.3
L78-1491	1.7	2.5	1.9	2.0	1.5	2.2	1.2	1.5
L78-1738	2.2	3.0	3.5	2.2	2.0	2.0	1.0	1.7
LN78-1136	1.3	1.2	1.2	1.5	1.0	1.2	1.0	1.0

UNIFORM TEST II, 1982

Strain	Iowa		KS	Michigan		Minnesota		NE	NJ
	Marshall-town	Ames	Man-hattan	Britton	Saginaw	Lamber-ton	Waseca	Mead	Adel-phia
				LODGING (score)					
Amsoy 71	2.0	2.5	2.7	1.7	3.3	3.3	1.7	1.6	2.0
Amsoy 71 BC_6	2.0	2.0	2.8	1.7	3.3	3.3	1.7	1.5	1.0
Beeson 80	1.3	2.1	1.7	1.0	2.7	3.0	1.3	1.0	1.0
Beeson 80 BC_6	1.3	2.3	2.3	1.7	3.7	3.0	1.0	1.0	2.0
Century	1.4	1.8	1.8	1.0	3.0	2.3	1.0	1.2	1.0
Corsoy 79 (II)	2.0	3.6	3.5	2.3	4.3	3.3	1.7	1.8	2.0
Gnome	1.5	1.9	2.8	2.0	1.3	2.0	2.7	1.3	1.0
Lakota (I)	2.0	4.0	3.8	2.7	4.3	3.0	2.0	2.0	4.0
Pella (III)	1.4	2.0	1.7	1.0	3.3	2.7	1.0	1.2	1.0
Wells II	1.4	1.3	1.8	1.0	1.7	3.3	1.0	1.0	1.0
Wells II BC_6	1.3	1.6	2.7	1.3	3.0	3.0	1.0	1.0	1.0
BSR 201	1.4	2.7	3.0	1.7	4.0	3.7	1.7	1.0	2.0
A79-133019	1.3	1.7	2.2	1.3	2.7	3.0	1.3	1.3	1.0
A79-138024	1.4	1.7	2.0	1.7	2.7	3.0	1.0	1.0	2.0
A80-147002	1.3	2.4	3.0	1.7	4.0	3.7	1.0	1.0	2.0
A80-147003	1.4	2.1	2.5	1.3	3.7	3.3	1.0	1.3	2.0
A80-147005	1.4	2.2	2.0	1.3	2.7	3.0	1.0	1.2	2.0
A80-244003	1.9	3.0	2.5	1.7	3.7	4.0	1.3	1.7	3.0
A80-244036	1.9	3.2	3.2	2.0	4.3	4.0	1.7	2.0	3.0
A81-157007	1.3	1.6	1.7	1.0	2.3	3.0	1.0	1.0	1.0
HC78-523	1.5	2.1	2.2	2.7	2.0	2.3	1.3	1.5	1.0
HC78-660	1.8	2.0	2.5	2.0	2.0	2.3	1.7	1.8	1.0
HC78-826	1.8	1.9	2.5	2.0	2.0	2.7	2.3	2.0	1.0
HW8008	1.3	1.8	1.7	1.3	2.7	2.7	1.0	1.0	1.0
HW8039	1.3	1.7	2.0	1.0	2.3	3.0	1.0	1.0	1.0
HW8185	1.4	1.6	1.5	1.0	2.7	2.3	1.0	1.0	1.0
L78-1491	1.8	1.6	2.2	1.7	2.0	3.0	2.0	1.2	1.0
L78-1738	1.9	2.2	3.0	1.7	4.3	3.0	2.0	1.3	2.0
LN78-1136	1.4	1.6	1.5	1.0	2.0	2.0	1.0	1.0	1.0

UNIFORM TEST II, 1982

Ohio		Pa. (State College)	S.D.		Wis.	Ontario	
Hoyt-ville	Wooster	~~Landis-ville~~	Brook-ings	Center-ville	Arling-ton	Harrow	Ridge-town
			LODGING (score)				
1.2	1.9	1.3	3.0	1.0	2.2	2.3	2.8
1.5	1.5	1.0	1.0	1.0	2.3	1.9	2.2
1.2	1.2	1.0	1.0	1.0	2.0	1.5	2.0
1.2	1.2	1.0	1.0	1.0	2.0	1.6	2.0
1.2	1.3	1.0	1.0	1.0	2.0	1.0	2.0
1.3	1.5	1.0	2.0	2.0	2.3	2.5	4.0
1.2	1.4	1.7	1.0	1.0	2.0	4.0	2.0
1.6	2.9	1.0	3.0	2.0	3.2	3.8	4.2
1.2	1.4	1.0	1.0	1.0	2.3	1.0	2.2
1.2	1.2	1.0	2.5	1.0	1.5	1.0	1.0
1.2	1.3	1.0	1.0	1.0	1.7	1.5	1.8
1.3	1.9	1.3	3.0	1.0	2.3	1.8	3.2
1.2	1.3	1.0	1.0	1.0	2.0	1.5	2.2
1.3	1.3	1.0	1.0	1.0	1.8	1.6	2.5
1.2	1.4	1.0	3.0	1.0	2.0	1.3	3.5
1.2	1.4	1.0	1.0	1.0	2.2	1.6	2.5
1.4	1.3	1.0	1.0	1.0	2.3	1.5	2.0
1.5	1.7	1.0	2.0	1.0	2.7	2.0	2.8
1.2	1.8	1.0	3.0	1.0	2.8	2.1	3.5
1.2	1.2	1.0	1.0	1.0	1.7	1.0	1.5
1.1	1.7	1.7	1.0	1.0	3.0	3.9	2.8
1.2	1.5	2.0	1.0	1.0	2.5	4.0	2.2
1.3	1.9	3.7	1.0	1.0	2.5	3.6	2.2
1.2	1.4	1.0	1.0	1.0	2.0	1.0	2.0
1.3	1.7	1.0	1.0	1.0	2.0	1.1	2.0
1.2	1.3	1.0	1.0	1.0	1.8	1.0	1.2
1.3	1.3	1.0	1.0	1.0	2.5	1.4	2.0
1.9	1.6	1.0	1.0	1.0	2.5	3.3	4.0
1.2	1.3	1.0	1.0	1.0	1.3	1.0	1.8

UNIFORM TEST II, 1982

Strain	Mean 24 Tests	Illinois				Indiana		
		Urbana	Girard	DeKalb	Pontiac	Lafay-ette	Bluff-ton	Green-field
		PLANT HEIGHT (inches)						
Amsoy 71	39	49	44	51	43	40	24	33
Amsoy 71 BC_6	38	47	43	50	37	39	30	35
Beeson 80	34	43	39	45	35	32	26	32
Beeson 80 BC_6	34	42	38	44	34	33	26	28
Century	36	47	42	46	36	36	29	29
Corsoy 79 (II)	39	46	40	46	39	36	30	33
Gnome	24	26	17	23	25	23	20	20
Lakota (I)	40	47	44	45	44	38	27	35
Pella (III)	37	48	43	47	37	37	27	31
Wells II	33	44	39	43	32	33	28	30
Wells II BC_6	35	42	39	42	36	35	25	31
BSR 201	33	40	39	42	35	35	25	29
A79-133019	31	37	36	38	30	30	25	29
A79-138024	32	41	35	39	34	32	23	29
A80-147002	33	41	37	43	33	34	25	28
A80-147003	34	43	37	43	35	34	26	31
A80-147005	32	39	34	37	33	31	23	26
A80-244003	38	46	39	48	38	39	28	34
A80-244036	33	40	35	40	35	33	22	29
A81-157007	33	44	37	43	35	31	23	19
HC78-523	25	26	17	27	24	22	19	19
HC78-660	26	26	16	27	27	26	21	24
HC78-826	28	29	20	29	28	25	20	23
HW8008	34	43	35	43	35	32	25	29
HW8039	35	44	39	42	39	34	23	30
HW8185	35	46	38	45	37	33	26	32
L78-1491	35	44	40	43	35	36	26	32
L78-1738	35	40	38	42	37	34	27	31
LN78-1136	33	41	30	42	35	32	23	28

UNIFORM TEST II, 1982

Iowa		KS	Michigan		Minnesota		NE	NJ
Marshall-town	Ames	Man-hattan	Britton	Saginaw	Lamber-ton	Waseca	Mead	Adel-phia
PLANT HEIGHT (inches)								
44	44	42	40	40	45	35	40	33
43	44	41	37	41	43	35	36	32
36	39	36	34	36	40	33	33	30
36	37	34	34	38	39	33	30	29
37	44	35	34	40	42	31	33	31
41	43	43	38	45	41	36	36	34
26	23	24	28	21	29	28	25	22
42	47	48	39	44	48	34	28	37
38	44	39	33	41	42	36	34	33
36	42	34	32	31	40	27	31	26
36	39	36	37	38	40	34	32	29
36	38	34	34	34	37	32	31	27
32	34	34	27	33	35	30	31	27
34	38	32	30	34	37	31	30	30
37	39	37	33	33	38	31	30	28
36	39	38	32	36	38	35	32	29
35	33	33	31	32	35	32	29	30
40	42	41	37	38	40	36	38	32
36	41	36	32	35	35	31	33	29
36	39	37	33	34	40	32	32	28
29	23	25	29	24	27	30	24	23
30	20	29	30	29	24	30	25	24
30	26	26	31	29	31	32	26	24
35	42	35	32	36	38	32	30	28
39	40	37	33	36	40	31	31	30
36	42	39	34	39	42	32	31	30
38	44	36	33	36	39	33	34	28
36	40	36	33	34	37	32	35	30
36	38	37	30	34	37	30	31	28

UNIFORM TEST II, 1982

Strain	Ohio		Pa.	S.D.		Wis.	Ontario	
	Hoyt-ville	Wooster	~~Landis-ville~~ State College	Brook-ings	Center-ville	Arling-ton	Harrow	Ridge-town
	PLANT HEIGHT (inches)							
Amsoy 71	25	33	37	50	38	33	40	42
Amsoy 71 BC_6	28	32	29	49	37	31	40	42
Beeson 80	22	27	25	46	33	32	37	36
Beeson 80 BC_6	27	27	28	45	30	31	35	38
Century	30	31	31	47	31	32	36	40
Corsoy 79 (II)	30	32	29	48	35	38	40	46
Gnome	16	23	28	27	23	23	32	26
Lakota (I)	29	35	32	49	37	37	39	44
Pella (III)	26	31	29	46	36	31	37	40
Wells II	23	28	25	40	31	22	33	34
Wells II BC_6	30	27	26	49	31	29	36	39
BSR 201	26	28	27	43	30	29	34	37
A79-133019	24	24	25	38	29	26	32	34
A79-138024	26	27	30	40	29	27	35	35
A80-147002	28	27	26	46	29	26	34	38
A80-147003	27	27	29	43	32	28	36	36
A80-147005	27	29	24	43	31	28	35	35
A80-244003	30	35	32	48	32	32	40	42
A80-244036	20	29	27	42	31	29	34	36
A81-157007	24	25	25	45	30	27	34	36
HC78-523	16	21	28	31	24	24	31	26
HC78-660	17	24	30	31	29	27	34	26
HC78-826	19	26	29	35	37	26	32	30
HW8008	28	31	29	44	31	30	34	38
HW8039	26	30	27	46	33	30	36	38
HW8185	29	31	27	46	28	30	35	39
L78-1491	28	27	30	46	32	32	36	39
L78-1738	30	29	29	44	31	32	36	35
LN78-1136	27	26	25	43	32	25	32	39

UNIFORM TEST II, 1982

Strain	Mean 21 Tests	Illinois				Indiana		
		Urbana	Girard	DeKalb	Pontiac	Lafay-ette	Bluff-ton	Green-field
		SEED QUALITY (score)						
Amsoy 71	2.1	2.7	3.4	1.3	1.2	1.0	2.0	1.5
Amsoy 71 BC_6	2.0	2.5	3.4	1.5	1.2	1.5	2.0	1.5
Beeson 80	1.7	3.3	4.0	1.7	1.6	2.0	2.0	1.0
Beeson 80 BC_6	2.0	3.3	4.0	1.5	1.7	1.5	2.0	1.0
Century	1.9	2.5	2.9	1.5	1.2	1.0	2.0	1.0
Corsoy 79 (II)	1.7	1.9	2.5	1.2	1.3	1.0	1.5	1.0
Gnome	1.6	1.4	1.5	1.2	1.2	1.0	1.0	1.0
Lakota (I)	2.2	2.0	3.4	1.4	1.5	1.0	1.0	1.0
Pella (III)	1.8	2.2	2.4	1.4	1.4	1.0	1.5	1.0
Wells II	2.2	2.7	3.5	1.7	1.6	1.5	1.5	1.0
Wells II BC_6	2.8	2.9	3.5	1.5	1.7	1.5	2.0	1.0
BSR 201	1.7	2.0	2.4	1.3	1.2	1.0	1.5	1.0
A79-133019	1.8	2.5	3.0	1.2	1.2	1.0	1.5	1.0
A79-138024	2.2	2.9	3.9	1.4	1.4	1.0	1.5	1.5
A80-147002	2.2	2.9	4.0	2.0	2.0	1.5	2.0	1.0
A80-147003	2.0	2.2	3.0	1.6	1.8	1.5	1.5	1.0
A80-147005	1.9	2.2	2.7	1.7	1.2	1.0	1.5	1.0
A80-244003	1.8	2.1	3.7	1.2	1.4	1.0	1.0	1.0
A80-244036	1.8	2.5	3.5	1.3	1.3	1.0	1.5	1.5
A81-157007	1.7	1.9	2.6	1.3	1.3	1.0	1.5	1.0
HC78-523	1.8	1.7	1.7	1.2	1.2	1.0	1.0	1.0
HC78-660	1.5	1.5	1.5	1.2	1.2	1.0	1.0	1.0
HC78-826	1.7	1.0	1.2	1.2	1.4	1.0	1.0	1.0
HW8008	1.9	2.9	3.9	1.3	1.5	1.5	1.5	1.0
HW8039	1.8	2.2	2.9	1.2	1.4	1.0	1.5	1.0
HW8185	1.7	2.4	2.9	1.3	1.2	1.0	2.0	1.5
L78-1491	1.7	2.2	2.0	1.2	1.3	1.0	1.0	1.5
L78-1738	1.6	1.9	2.4	1.2	1.3	1.0	1.0	1.0
LN78-1136	1.8	2.7	3.2	1.2	1.2	1.5	1.5	1.0

UNIFORM TEST II, 1982

Strain	Iowa		KS	Michigan		Minnesota		NE	NJ
	Marshall-town	Ames	Man-hattan	Britton	Saginaw	Lamber-ton	Waseca	Mead	Adel-phia
			SEED QUALITY (score)						
Amsoy 71		1.9	2.0			2.7	2.7	2.0	1.0
Amsoy 71 BC_6		1.9	2.0			2.3	2.7	2.0	1.0
Beeson 80		2.1	2.0			2.0	2.7	1.7	1.0
Beeson 80 BC_6		1.9	2.0			2.3	2.3	1.7	1.2
Century		2.1	2.0			1.7	2.3	1.0	1.0
Corsoy 79 (II)		1.5	2.0			1.7	2.3	1.7	1.0
Gnome		1.4	1.0			2.0	2.3	1.0	1.0
Lakota (I)		2.1	2.0			2.0	2.7	1.5	1.0
Pella (III)		1.5	1.0			1.7	2.3	1.3	1.0
Wells II		1.9	2.0			1.7	2.7	1.7	1.7
Wells II BC_6		1.7	2.0			2.3	2.7	2.2	1.5
BSR 201		1.4	2.0			1.3	3.0	1.2	1.0
A79-133019		1.9	1.0			1.7	2.7	1.0	1.0
A79-138024		1.9	2.0			1.7	2.7	1.7	1.0
A80-147002		2.0	2.0			2.7	2.3	2.5	1.5
A80-147003		2.0	2.0			3.0	2.7	1.3	1.2
A80-147005		1.9	2.0			2.7	2.7	1.8	1.0
A80-244003		1.9	1.0			2.0	2.3	1.0	1.0
A80-244036		1.6	2.0			1.7	2.3	1.2	1.0
A81-157007		1.6	2.0			2.0	2.7	2.0	1.0
HC78-523		1.7	2.0			2.0	2.7	1.2	1.0
HC78-660		1.4	2.0			1.7	2.3	1.0	1.0
HC78-826		1.3	2.0			1.7	2.7	1.0	1.0
HW8008		1.9	2.0			1.7	2.7	1.0	1.0
HW8039		1.9	2.0			2.0	2.7	1.2	1.2
HW8185		1.6	2.0			1.7	2.3	1.2	1.0
L78-1491		1.4	1.0			2.3	2.3	1.0	1.0
L78-1738		1.5	1.0			1.3	2.3	1.2	1.0
LN78-1136		1.9	2.0			1.3	3.0	1.5	1.0

UNIFORM TEST II, 1982

Ohio		Pa.	S.D.		Wis.	Ontario	
Hoyt-ville	Wooster	~~Landis-ville~~ State College	Brook-ings	Center-ville	Arling-ton	Harrow	Ridge-town
			SEED QUALITY (score)				
1.6	2.3	2.5	3.0	2.0	1.3	3.0	2.0
1.5	1.8	2.0	3.0	3.0	1.0	3.0	2.0
1.9	2.1	2.0	2.0	3.0	1.3	1.0	2.0
2.2	2.4	2.5	2.0	3.0	1.3	1.0	2.0
2.5	2.0	2.5	2.0	3.0	1.7	1.0	2.0
1.7	1.9	2.0	2.0	2.0	1.3	2.0	2.0
1.2	1.3	2.0	4.0	4.0	1.0	2.0	2.0
2.9	2.3	2.5	3.0	4.0	3.0	2.0	3.0
1.3	1.8	2.5	4.0	3.0	1.7	1.0	2.0
2.5	2.0	3.0	3.0	5.0	2.3	1.0	2.0
3.0	2.3	2.5	2.0	3.0	2.0	1.0	2.0
1.5	1.9	2.5	2.0	3.0	1.0	2.0	2.0
1.8	2.0	2.0	4.0	3.0	1.0	1.0	2.0
2.8	2.2	3.0	3.0	3.0	3.0	2.0	2.0
2.0	3.0	2.5	3.0	3.0	2.0	1.0	2.0
1.7	2.4	3.0	2.0	3.0	3.0	1.0	2.0
1.8	1.9	2.5	3.0	3.0	1.7	1.0	2.0
1.8	2.3	2.5	3.0	3.0	1.7	1.0	2.0
1.7	1.7	2.0	3.0	3.0	1.0	1.0	2.0
1.3	1.8	2.0	2.0	3.0	1.0	1.0	2.0
1.3	1.2	2.5	4.0	4.0	1.7	1.0	2.0
1.6	1.1	2.0	3.0	2.0	1.0	2.0	2.0
1.2	1.2	2.5	5.0	3.0	1.3	2.0	2.0
2.3	2.3	2.5	3.0	3.0	1.3	1.0	2.0
1.7	2.1	2.5	3.0	2.0	2.0	1.0	2.0
1.5	2.0	2.0	2.0	2.0	1.7	1.0	2.0
1.3	1.7	2.5	4.0	2.0	2.0	1.0	2.0
1.3	2.0	2.0	4.0	2.0	1.3	1.0	2.0
1.4	1.6	2.5	3.0	2.0	2.0	1.0	2.0

UNIFORM TEST II, 1982

Strain	Mean 23 Tests	Illinois				Indiana		
		Urbana	Girard	DeKalb	Pontiac	Lafay-ette	Bluff-ton	Green-field
				SEED SIZE (g/100)				
Amsoy 71	16.3	17.1	14.2	16.5	16.8	19.0	18.5	15.3
Amsoy 71 BC_6	16.7	17.7	14.4	18.4	15.9	19.8	18.1	17.0
Beeson 80	18.5	20.7	15.6	19.5	18.8	20.1	20.0	15.9
Beeson 80 BC_6	19.1	20.6	17.0	19.4	19.0	20.9	21.9	17.9
Century	18.0	18.9	16.1	18.6	17.4	19.2	20.1	16.3
Corsoy 79 (II)	14.7	15.1	13.2	15.4	14.3	17.0	16.5	13.8
Gnome	15.1	16.8	15.0	14.7	14.6	16.8	15.1	14.7
Lakota (I)	14.6	15.4	14.4	14.1	14.1	17.2	15.8	13.4
Pella (III)	18.7	21.1	16.8	20.6	17.0	21.5	21.8	19.2
Wells II	15.0	15.8	12.2	16.1	14.6	17.1	18.0	14.6
Wells II BC_6	15.5	17.4	15.4	16.5	16.0	19.1	18.8	15.6
BSR 201	15.0	16.5	13.6	16.4	14.2	17.8	16.6	13.3
A79-133019	16.1	16.4	14.0	17.4	15.1	17.5	17.1	15.4
A79-138024	17.5	18.8	15.3	16.8	17.6	18.6	18.5	15.4
A80-147002	15.1	16.6	14.5	15.9	14.2	17.8	16.5	14.7
A80-147003	16.0	17.1	15.0	18.0	14.4	19.2	17.5	14.8
A80-147005	16.7	18.0	16.9	18.2	15.6	19.3	17.0	15.1
A80-244003	15.7	17.5	14.4	16.8	15.4	17.7	16.7	14.6
A80-244036	19.4	20.4	17.8	20.4	19.3	22.2	20.6	16.8
A81-157007	15.9	17.1	15.9	18.1	15.9	18.1	17.5	16.7
HC78-523	13.3	13.8	13.1	12.9	13.2	15.3	14.5	13.8
HC78-660	15.9	16.7	14.5	15.6	16.0	17.7	16.9	13.8
HC78-826	14.6	15.5	13.8	14.7	14.5	16.1	15.0	13.5
HW8008	17.6	19.0	14.4	18.3	16.3	18.9	19.1	16.2
HW8039	17.1	17.9	15.2	18.8	16.6	19.5	17.5	16.7
HW8185	17.4	18.7	15.1	18.0	17.4	18.7	20.8	16.7
L78-1491	14.3	15.1	11.3	14.9	13.2	16.3	16.3	15.0
L78-1738	13.5	14.1	11.9	14.4	13.3	15.0	16.0	13.7
LN78-1136	16.5	18.1	13.5	17.5	15.5	19.2	16.7	16.4

UNIFORM TEST II, 1982

Iowa		KS	Michigan		Minnesota		NE	NJ
Marshall-town	Ames	Man-hattan	Britton	Saginaw	Lamber-ton	Waseca	Mead	Adel-phia
			SEED SIZE (g/100)					
	16.0	17.3	16.1	17.3	18.2	16.1	19.3	14.0
	17.0	16.2	15.9	17.2	18.5	17.0	19.2	14.0
	19.4	18.1	17.8	21.3	20.6	18.0	22.3	17.0
	19.4	17.8	17.7	20.6	21.3	19.7	23.5	17.0
	17.5	17.8	17.8	19.3	19.1	17.2	22.6	16.0
	14.7	13.8	13.9	15.2	16.1	14.6	18.1	12.0
	15.6	16.8	14.7	16.3	15.8	12.9	18.1	13.0
	12.6	16.2	14.5	14.9	16.0	15.2	20.1	11.0
	19.6	17.2	17.0	20.3	20.3	17.6	21.7	17.0
	14.7	14.5	14.6	16.6	16.9	15.1	19.1	12.0
	15.4	15.7	16.0	17.5	18.0	16.9	20.7	12.0
	15.4	15.7	14.6	15.4	16.7	15.4	18.5	12.0
	15.6	14.7	14.6	18.2	17.2	16.9	18.2	14.0
	16.2	16.9	17.0	20.4	18.6	18.6	20.4	16.0
	16.0	15.8	15.1	15.9	16.5	14.5	18.7	12.0
	16.0	16.2	15.6	17.0	17.1	16.6	19.5	13.0
	16.1	19.2	16.4	16.9	17.0	17.0	22.3	15.0
	16.1	14.9	15.0	17.7	17.4	16.2	18.3	14.0
	19.2	18.8	18.2	20.8	22.4	18.9	23.4	18.0
	16.0	17.2	15.8	16.8	17.5	16.3	21.2	14.0
	12.6	15.4	12.7	14.4	13.7	11.6	16.9	12.0
	14.8	19.2	14.9	17.1	17.0	13.9	18.2	14.0
	14.2	15.6	13.4	16.1	15.4	13.8	17.1	15.0
	16.7	16.3	17.6	20.1	20.3	18.5	22.4	15.0
	17.2	16.2	16.4	19.3	18.3	16.5	20.0	15.0
	16.4	16.9	16.7	19.0	18.2	17.4	22.1	16.0
	14.2	13.4	15.3	14.5	15.3	14.4	15.3	13.0
	14.4	13.4	14.1	13.3	14.1	12.6	16.1	12.0
	15.6	17.2	16.0	17.6	17.9	17.3	21.1	14.0

UNIFORM TEST II, 1982

Strain	Ohio		Pa.	S.D.		Wis.	Ontario	
	Hoyt-ville	Wooster	~~Landis-ville~~ State College	Brook-ings	Center-ville	Arling-ton	Harrow	Ridge-town
			SEED SIZE (g/100)					
Amsoy 71	15.0	15.6	15.9	16.3	15.7	13.3	16.4	15.3
Amsoy 71 BC_6	14.6	14.5	17.0	16.7	17.4	14.5	17.0	16.2
Beeson 80	16.2	16.4	17.9	18.1	20.1	17.3	17.4	17.2
Beeson 80 BC_6	17.1	18.0	19.0	18.8	20.7	17.5	17.8	17.7
Century	17.1	15.7	19.0	17.1	20.0	16.4	16.8	17.0
Corsoy 79 (II)	15.0	13.0	14.8	14.1	15.0	13.4	14.7	14.5
Gnome	13.5	15.1	15.0	13.0	16.4	13.6	14.5	14.5
Lakota (I)	13.1	13.4	15.0	14.7	15.6	12.1	13.7	12.9
Pella (III)	17.5	15.6	17.7	17.4	21.6	15.8	17.8	16.9
Wells II	13.2	12.9	14.2	14.5	19.9	12.1	14.0	13.4
Wells II BC_6	13.2	14.2	15.1	16.3	17.8	13.3	14.7	14.2
BSR 201	12.3	12.1	15.2	15.5	15.8	13.0	14.2	14.1
A79-133019	14.6	13.9	15.5	16.3	15.8	15.6	15.4	17.2
A79-138024	15.2	15.0	19.2	18.0	18.6	16.1	17.4	18.6
A80-147002	13.7	13.5	14.1	14.7	16.3	12.7	14.5	12.8
A80-147003	15.4	13.9	13.5	16.0	17.4	13.8	15.5	14.4
A80-147005	14.8	16.0	15.7	15.9	16.8	13.6	16.0	15.1
A80-244003	15.7	14.9	14.2	14.5	16.4	14.3	15.5	13.6
A80-244036	17.3	18.9	17.5	18.7	21.5	17.8	18.5	18.2
A81-157007	15.0	14.9	15.3	15.5	16.4	14.8	15.0	14.9
HC78-523	11.9	13.3	13.5	11.8	14.1	10.8	12.2	11.9
HC78-660	14.3	16.3	16.6	15.2	17.3	14.1	15.8	15.7
HC78-826	11.6	14.6	16.4	13.9	14.3	13.7	14.2	14.3
HW8008	16.4	16.3	16.9	17.3	19.8	14.9	16.8	17.5
HW8039	15.9	17.0	15.5	16.9	17.8	14.2	15.8	18.4
HW8185	16.4	16.5	15.8	16.1	20.3	15.3	16.3	16.2
L78-1491	14.5	13.0	14.5	14.2	16.2	12.3	14.2	12.6
L78-1738	13.9	12.5	12.2	12.7	14.2	12.0	13.2	11.7
LN78-1136	15.9	16.1	15.7	15.4	17.7	13.6	15.5	16.0

UNIFORM TEST II, 1982

Strain	Mean 4 Tests	Ind. Lafayette	Iowa Ames	NE Mead	Ohio Hoytville
		PROTEIN (%)			
Amsoy 71	38.6	38.8	40.4	39.4	35.9
Amsoy 71 BC_6	38.8	39.0	40.1	39.3	36.8
Beeson 80	39.3	39.9	41.0	40.3	36.0
Beeson 80 BC_6	39.8	39.9	42.1	41.1	36.2
Century	40.6	40.4	41.6	42.3	38.3
Carsoy 79 (II)	39.8	39.5	40.5	40.8	38.2
Gnome	40.8	40.0	42.2	41.6	39.3
Lakota (I)	41.4	42.4	42.6	42.5	38.2
Pella (III)	37.6	38.8	38.4	38.1	35.0
Wells II	39.5	38.6	42.0	41.0	36.5
Wells II BC_6	41.2	41.3	42.7	41.7	39.0
BSR 201	40.2	40.5	41.7	41.0	37.4
A79-133019	37.4	37.0	39.2	38.9	34.6
A79-138024	38.8	38.1	41.0	38.8	37.5
A80-147002	38.9	39.3	40.4	39.7	36.1
A80-147003	39.3	40.2	40.2	40.5	36.3
A80-147005	37.2	37.4	39.5	39.4	32.5
A80-244003	38.9	39.9	38.7	39.9	37.2
A80-244036	37.7	38.4	39.7	38.4	34.4
A81-157007	39.0	39.5	40.3	40.5	35.8
HC78-523	40.4	40.9	41.2	41.5	37.8
HC78-660	41.8	41.9	42.1	42.5	40.8
HC78-826	40.6	41.7	40.1	42.9	37.8
HW8008	39.6	40.0	40.9	40.0	37.3
HW8039	39.4	39.8	41.0	41.0	36.0
HW8185	41.2	42.0	42.0	42.2	38.6
L78-1491	40.4	41.7	40.9	41.3	37.7
L78-1738	42.2	42.5	43.1	43.3	39.8
LN78-1136	38.5	38.8	38.9	39.8	36.4

UNIFORM TEST II, 1982

Strain	Mean 4 Tests	Ind. Lafayette	Iowa Ames	NE Mead	Ohio Hoytville
		OIL (%)			
Amsoy 71	18.8	18.2	17.5	19.1	20.4
Amsoy 71 BC_6	19.0	18.9	18.1	19.0	19.9
Beeson 80	18.1	17.5	17.7	17.8	19.5
Beeson 80 BC_6	17.9	17.6	17.4	17.3	19.4
Century	18.2	18.4	18.1	17.3	19.0
Corsoy 79 (II)	18.5	18.8	18.0	17.5	19.8
Gnome	18.0	18.4	17.9	17.1	18.7
Lakota (I)	17.7	17.1	17.1	17.0	19.5
Pella (III)	19.2	18.5	19.2	18.4	20.7
Wells II	18.6	18.8	17.5	17.5	20.6
Wells II BC_6	18.2	18.5	17.1	17.9	19.1
BSR 201	17.8	17.2	17.4	17.8	19.0
A79-133019	19.0	19.4	17.6	17.7	21.1
A79-138024	18.2	18.7	16.9	18.1	18.9
A80-147002	18.8	17.8	18.4	18.3	20.6
A80-147003	18.7	17.7	18.5	18.3	20.2
A80-147005	20.7	20.6	19.0	19.8	23.5
A80-244003	18.9	18.2	18.7	18.7	20.1
A80-244036	19.5	19.4	18.4	18.8	21.5
A81-157007	18.4	18.0	17.1	17.8	20.7
HC78-523	18.2	18.3	17.2	17.5	20.0
HC78-660	18.2	17.8	17.8	17.7	19.3
HC78-826	17.7	17.5	17.5	17.0	18.9
HW8008	19.4	19.1	18.5	19.2	20.6
HW8039	18.9	18.8	18.4	17.8	20.5
HW8185	17.8	17.1	17.5	17.3	19.2
L78-1491	18.0	17.3	17.8	17.4	19.5
L78-1738	17.0	16.6	17.0	16.3	18.3
LN78-1136	19.4	19.7	18.8	18.9	20.1

PRELIMINARY TEST IIA, 1982

Strain	Parentage	Generation Composited
1. Century	Calland x Bonus	F_6
2. Corsoy 79 (II)	Corsoy[6] x Lee 68	BC_5F_3
3. Lakota (I)	AP6M(S1)(C1)	F_4
4. Pella (III)	L66L-137 x Calland	F_4
5. A81-153003	A76-20215 x Century	F_4
6. A81-155006	Schechinger S48 x A76-304020	F_4
7. A81-155014	A76-202015 x A76-304020	F_4
8. A81-155022	A75-20418 x Weber	F_4
9. A81-156027	A76-20215 x A76-304020	F_4
10. A81-156031	AP61YT(F_4)C_3	F_4
11. A81-157001	Pride B-216[2] x A2	BC_1F_2
12. A81-157003	Pride B-216[2] x A2	BC_1F_2
13. A81-157004	Pride B-216[2] x A2	BC_1F_2
14. A81-157005	Pride B-216[2] x A2	BC_1F_2
15. A81-157008	Pride B-216[2] x A2	BC_1F_2
16. A81-257014	Land o'Lakes Max x BSR 302	F_4
17. A81-257017	A77-116013 x Land o'Lakes Max	F_4
18. A81-257031	Schechinger S48 x Land o'Lakes Max	F_4
19. A81-351016	Asgrow A2656 x Schechinger S48	F_4
20. Gnome	Williams x Ransom	F_4
21. HC77-689	Hodgson x Gnome	F_5
22. HC77-5535	Amsoy 71 x Ransom	F_5
23. HC78-675	L70T-543G x L74D-619	F_5
24. HC78-1631	L72U-2567 x Hodgson	F_5
25. HC79-387	Williams x Essex	F_5
26. HC79-478	L70T-543G x L74D-619	F_5
27. HC79-499	L74D20 x L74D7	F_5
28. HC79-786	Gnome x L73-6536	F_5
29. HC79-788	Gnome x L73-6536	F_5
30. HC79-794	Gnome x L73-6536	F_5
31. HC79-1550	L72U-2567 x L72U-640	F_5

PRELIMINARY TEST IIA, 1982

Descriptive and Other Data

Strain	Descriptive Code	Chlorosis Score Ames	Shattering Manhattan 2 Weeks
Century	PTBr IYBl I	2.8	2
Corsoy 79 (II)	PGBr DYY I	4.2	2
Lakota (I)	PTT SYBl I	2.5	2
Pella (III)	PTT DYBl I	4.0	3
A81-153003	PTBr DYBl I	4.0	3
A81-155006	PTBr DYG I	3.8	2
A81-155014	PTBr DYBl I	4.8	2
A81-155022	WTBr DYBr I	2.8	3
A81-156027	WTBr DYBl I	3.8	2
A81-156031	WGBr DYBf I	1.5	2
A81-157001	WGBr DYY I	2.5	2
A81-157003	WGBr DYY I	3.2	2
A81-157004	WGBr DYY I	2.5	2
A81-157005	WGBr DYY I	3.0	2
A81-157008	WGBr DYY I	2.8	2
A81-257014	PTBr SYBl I	3.2	3
A81-257017	PTBr SYBl I	2.2	2
A81-257031	PTBr DYG I	3.0	3
A81-351016	PGBr DYG I	2.8	3
Gnome	PTT SYBl D	2.2	2
HC77-689	PTBr DYBl D	2.0	2
HC77-5535	PGT SYY D	2.2	2
HC78-675	PTT SYBl D	3.5	1
HC78-1631	PGT DYBf D	4.2	2
HC79-387	PTT DYBl D	2.8	2
HC79-478	PTBr SYBr D	2.2	1
HC79-499	PTT DYBl D	3.2	2
HC79-786	PTT SYBl D	3.0	1
HC79-788	PTT SYBl D	3.8	2
HC79-794	PTT SYBl D	4.2	2
HC79-1550	PTT SYBl D	3.0	1

PRELIMINARY TEST IIA, 1982

Disease Data

Strain	BSR				PS	PSB	SMV	Germ
	Ames		Lafayette		Lafayette			
	Plant	Stem	Stem	Urbana				
	n %	n %	n %	n score	a %	n %	a score	%
Century	100	58.7	20	3	50	2	5E	92
Corsoy 79 (II)	100	63.6	60	4	59	2	5E	96
Lakota (I)	100	68.2	80	3	55	5	4E	80
Pella (III)	95	66.3	80	2	43	1	5E	91
A81-153003	90	54.5	20	4	55	9	5S	89
A81-155006	75	21.2	0	1	41	5	5E	84
A81-155014	95	48.5	40	3	39	5	5E	85
A81-155022	95	63.7	20	2	8	5	5S	92
A81-156027	100	61.9	40	3	23	3	2E	96
A81-156031	100	70.2	80	3	64	2	5E	92
A81-157001	100	66.3	40	2	57	2	5E	95
A81-157003	100	44.1	20	2	58	0	5E	98
A81-157004	100	59.1	40	3	33	3	5E	93
A81-157005	100	51.3	100	3	60	2	5E	92
A81-147008	100	61.3	40	2	56	8	5E	85
A81-257014	80	47.5	60	1	17	1	5E	94
A81-257017	90	38.2	40	1	35	6	5E	90
A81-257031	90	50.7	0	1	9	3	5S	93
A81-351016	100	80.5	40	3	43	6	5E	82
Gnome	100	93.1	40	1	10	1	2M	97
HC77-689	100	80.2	40	1	23	0	1	98
HC77-5535	100	79.8	20	1	23	2	1	90
HC78-675	100	93.9	60	1	45	0	2E	97
HC78-1631	100	82.2	60	1	21	0	1	98
HC79-387	100	89.9	40	1	18	0	1	97
HC79-478	100	98.9	60	3	73	3	1	96
HC79-499	100	82.1	60	2	40	0	2E	96
HC79-786	100	90.2	100	1	14	0	1	99
HC79-788	100	94.4	40	1	14	0	2E	99
HC79-794	100	97.8	80	1	12	1	1	97
HC79-1550	100	98.0	80	2	25	1	2E	97

PRELIMINARY TEST IIA, 1982

Disease Data

Strain	PR_1		PR_4	PR Tolerance		FE_2
	Ames	Lafayette	Ames	Hoytville	Wooster	Lafayette
	a	a	a	n	n	n
	--------Reaction--------			score	score	score
Century	R	R	S	1.5	3.3	5
Carsoy 79 (II)	R	R	S	1.5	3.4	5
Lakota (I)	H	R	S	2.5	3.2	3
Pella (III)	H	R	S	2.5	3.0	2
A81-153003	R	R	S	2.5	3.4	5
A81-155006	S	S	S	2.5	3.6	5
A81-155014	S	R	H	2.5	3.1	5
A81-155022	S	S	S	3.5	3.1	1
A81-156027	S	S	S	2.5	3.0	5
A81-157031	S	S	S	3.5	3.1	5
A81-157001	S	S	S	2.5	3.5	4
A81-157003	S	S	S	2.0	3.2	5
A81-157004	S	S	S	2.5	3.2	5
A81-157005	S	S	S	1.5	3.4	5
A81-157008	S	S	S	2.5	3.4	5
A81-257014	S	S	S	1.5	2.8	1
A81-257017	S	S	S	2.5	3.0	1
A81-257031	S	S	S	2.0	3.1	3
A81-251016	R	R	S	3.0	3.0	5
Gnome	S	S	S	4.0	3.6	1
HC77-689	S	S	S	4.5	4.5	5
HC77-5535	H	R	S	2.5	3.9	1
HC78-675	S	S	S	3.0	3.8	1
HC78-1631	S	S	S	3.0	3.6	1
HC79-387	S	S	S	4.0	3.2	4
HC79-478	S	R	S	1.0	4.0	4
HC79-499	S	S	S	3.0	3.5	3
HC79-786	S	S	S	3.0	3.6	1
HC79-788	S	S	S	3.0	3.6	2
HC79-794	S	S	S	3.0	3.9	1
HC79-1550	S	S	S	2.5	3.6	1

PRELIMINARY TEST IIA, 1982

Regional Summary

Strain	Yield	Rank	Maturity	Lodging	Plant Height	Seed Quality	Seed Size	Composition Protein	Composition Oil
No. of Tests	11	11	10	11	11	8	10	5	5
	bu/a	No.	Date	Score	In.	Score	g/100	%	%
Century	49.9	14	+3	1.5	36	1.5	18.3	40.5	17.9
Corsoy 79 (II)	48.3	21	9-22*	2.3	38	1.4	15.1	39.3	18.7
Lakota (I)	43.8	30	-5	3.0	39	1.7	14.9	41.3	17.7
Pella (III)	52.5	3	+6	1.6	38	1.4	19.4	37.8	19.3
A81-153003	51.3	6	-2	1.5	36	1.4	17.6	39.7	18.7
A81-155006	50.7	11	+4	1.9	36	1.7	17.1	39.4	18.5
A81-155014	51.3	6	-1	1.6	33	1.7	18.9	38.4	18.9
A81-155022	50.9	10	+2	1.9	35	1.4	14.6	38.5	19.3
A81-156027	51.7	5	+1	1.7	35	1.6	17.1	37.6	19.6
A81-156031	47.3	26	-1	1.7	35	1.6	16.1	40.9	18.7
A81-157001	51.2	9	+1	1.1	35	1.5	16.5	40.3	18.5
A81-157003	51.3	6	+1	1.6	36	1.6	17.7	39.9	18.2
A81-157004	50.7	11	+1	1.4	33	1.5	16.4	39.2	18.2
A81-157005	51.8	4	+2	1.4	35	1.6	16.9	39.9	18.3
A81-157008	49.7	16	-1	1.4	33	1.9	16.8	39.9	18.6
A81-257015	50.0	13	+6	1.9	40	1.3	15.8	40.5	17.2
A81-257017	49.9	14	+2	1.8	36	1.5	17.9	39.8	18.3
A81-257031	52.9	2	+3	1.8	36	1.8	17.6	40.1	18.2
A81-351016	49.7	16	+9	2.1	39	2.0	18.5	37.9	18.3
Gnome	46.8	28	+5	1.4	23	1.3	15.3	40.2	18.5
HC77-689	45.5	29	+5	1.4	21	1.5	15.6	39.1	17.9
HC77-5535	47.5	25	+3	1.4	25	1.5	14.9	39.0	18.7
HC78-675	48.3	21	+7	1.3	23	1.5	15.7	40.2	18.5
HC78-1631	48.2	23	+5	1.5	25	1.4	13.7	39.4	19.1
HC79-387	43.3	31	+7	1.2	20	1.5	15.3	42.0	17.6
HC79-478	53.2	1	+5	1.6	27	1.5	14.7	40.4	18.6
HC79-499	49.4	18	+4	1.3	29	1.2	15.8	40.6	18.0
HC79-786	47.8	24	+4	1.3	23	1.3	15.8	40.9	17.8
HC79-788	48.8	20	+4	1.3	23	1.3	15.3	40.8	18.1
HC79-794	47.1	27	+4	1.2	22	1.4	15.7	40.7	18.3
HC79-1550	49.0	19	+6	1.3	25	1.5	14.8	38.8	19.3

*124 days after planting

Several strains in this test yielded more than the Group II checks and had excellent lodging resistance. Of these, A81-155006 had the best resistance to BSR. Several additional Iowa strains yielded very well and also had very low scores for foliar symptoms of BSR at Urbana. The determinate strains had the best PSB and SMV scores of the entries in the test. HC79-478 was the highest yielding entry in the test, and continued testing of this strain and those maturing 5 or more days later than Corsoy should be done in Group III tests.

PRELIMINARY TEST IIA, 1982

Strain	Mean 11 Tests	Ill. Urbana	Ind. Lafayette	Iowa Marshalltown	Iowa Ames	Mich. Britton
		YIELD (bu/a)				
Century	49.9	66.9	63.0	46.4	51.8	49.5
Corsoy 79 (II)	48.3	65.3	67.2	46.8	46.8	48.6
Lakota (I)	43.8	60.6	57.6	38.1	44.9	46.2
Pella (III)	52.5	65.8	75.0	46.7	51.4	46.8
A81-153003	51.3	63.9	68.0	49.4	57.4	42.2
A81-155006	50.7	69.7	73.9	46.7	55.4	43.3
A81-155014	51.3	67.3	67.5	48.5	53.4	49.7
A81-155022	50.9	71.9	71.2	45.0	53.1	46.6
A81-156027	51.7	69.9	67.6	46.5	49.2	47.7
A81-156031	47.3	60.5	64.2	45.7	51.1	44.4
A81-157001	51.2	74.5	65.1	48.6	52.1	48.4
A81-157003	51.3	74.3	66.9	47.6	48.9	47.8
A81-157004	50.7	73.0	66.0	47.1	53.2	49.8
A81-157005	51.8	71.1	70.4	46.2	54.2	47.5
A81-157008	49.7	67.5	63.9	46.9	50.9	47.2
A81-257014	50.0	71.6	72.9	43.6	47.0	44.7
A81-257017	49.9	71.1	72.4	43.5	45.5	47.2
A81-257031	52.9	76.4	77.9	48.6	57.0	44.0
A81-351016	49.7	67.3	74.2	51.2	54.3	43.1
Gnome	46.8	55.4	66.8	43.2	55.3	43.4
HC77-689	45.5	52.1	64.2	48.1	50.0	42.6
HC77-5535	47.5	60.6	59.7	46.3	45.0	46.1
HC78-675	48.3	61.4	66.5	43.0	53.6	46.0
HC78-1631	48.2	63.2	72.0	44.8	52.4	41.8
HC79-387	43.3	47.8	55.4	47.3	39.8	36.1
HC79-478	53.2	68.7	78.4	49.1	55.3	48.7
HC79-499	49.4	62.7	71.4	45.9	51.9	42.7
HC79-786	47.8	53.0	66.0	46.7	53.7	43.9
HC79-788	48.8	56.5	68.9	49.5	51.3	46.2
HC79-794	47.1	54.5	70.8	46.9	55.8	43.0
HC79-1550	49.0	65.3	77.1	45.1	53.3	43.5
C.V. (%)		4.6	5.7	4.0	6.5	6.1
L.S.D. (5%)		6.1	7.8	3.8	6.6	5.7
Row sp. (in.)		30	24	27	27	20
Rows/plot		4	4	4	4	4
Reps		2	2	2	2	2

PRELIMINARY TEST IIA, 1982

Mich.	NE	NJ	Ohio	S.D.	Wis.
Saginaw	Mead	Adelphia	Hoytville	Centerville	Arlington
			YIELD (bu/a)		
41.6	54.5	39.3	53.2	44.3	38.0
51.8	50.9	42.0	48.5	40.6	32.7
39.0	51.1	32.2	40.9	38.1	33.4
53.7	56.4	40.8	51.4	46.3	42.8
47.1	54.1	43.1	53.5	45.9	39.6
42.6	53.5	42.1	47.0	43.7	40.1
50.3	52.0	46.3	44.2	48.3	36.5
48.5	55.7	39.8	44.7	43.7	39.3
50.0	50.9	55.9	48.0	46.0	37.0
44.8	51.6	38.7	38.0	41.6	39.7
50.5	50.2	42.1	45.1	42.4	44.6
50.4	54.1	42.1	47.4	43.2	42.1
40.7	55.1	40.4	49.1	42.7	40.4
49.6	56.1	36.9	46.9	49.0	41.7
48.6	50.8	42.6	48.6	41.6	38.4
45.5	52.9	41.9	50.3	45.8	33.9
47.4	51.5	40.2	46.8	44.1	39.6
47.2	52.3	43.4	48.0	48.7	38.8
45.4	49.6	36.4	45.4	43.3	36.1
40.5	52.4	40.5	31.3	45.6	40.5
26.1	57.5	40.2	39.8	42.0	38.0
42.5	53.4	43.1	45.1	44.9	36.1
34.5	52.1	40.2	49.4	43.8	40.5
42.9	52.9	39.3	43.2	43.0	34.5
36.3	50.8	45.3	41.0	36.2	40.1
44.0	61.3	39.1	51.7	47.2	41.2
45.6	53.8	37.3	48.1	44.6	39.5
37.1	52.2	41.4	44.3	44.6	43.3
41.8	51.4	40.0	45.3	44.5	41.5
34.2	53.9	35.8	42.2	40.3	41.0
39.9	49.8	38.9	37.7	49.2	39.3
15.2	4.8	8.4	8.0	7.3	7.0
16.9	5.2	7.0	7.4	6.5	5.6
20	30	30	20	30	30
4	4	3	5	4	4
2	2	4	2	2	2

PRELIMINARY TEST IIA, 1982

Strain	Mean 11 Tests	Ill. Urbana	Ind. Lafayette	Iowa Marshalltown	Iowa Ames	Mich. Britton
		YIELD RANK				
Century	14	15	28	19	18	3
Corsoy 79 (II)	21	17	18	14	27	5
Lakota (I)	30	23	30	31	30	14
Pella (III)	3	16	4	15	19	12
A81-153003	6	19	15	3	1	29
A81-155006	11	10	6	15	4	24
A81-154014	6	13	17	7	11	2
A81-155022	10	5	11	25	14	13
A81-156027	5	9	16	18	24	8
A81-156031	26	25	26	23	21	19
A81-157001	9	2	24	5	16	6
A81-157003	6	3	19	9	25	7
A81-157004	11	4	23	11	13	1
A81-157005	4	7	13	21	8	9
A81-157008	16	12	27	12	22	10
A81-257014	13	6	7	27	26	18
A81-257017	14	7	8	28	28	11
A81-257031	2	1	2	5	2	20
A81-351016	16	13	5	1	7	25
Gnome	28	27	20	29	5	23
HC77-689	29	30	25	8	23	28
HC77-5535	25	23	29	20	29	16
HC78-675	21	22	21	30	10	17
HC78-1631	23	20	9	26	15	30
HC79-387	31	31	31	10	31	31
HC79-478	1	11	1	4	5	4
HC79-499	18	21	10	22	17	27
HC79-786	24	29	22	15	9	21
HC79-788	20	26	14	2	20	15
HC79-794	27	28	12	12	3	26
HC79-1550	19	17	3	24	12	22

PRELIMINARY TEST IIA, 1982

Mich.	NE	NJ	Ohio	S.D.	Wis.
Saginaw	Mead	Adelphia	Hoytville	Centerville	Arlington
			YIELD RANK		
22	7	23	2	15	22
2	25	11	9	28	31
26	24	31	27	30	30
1	3	14	4	6	3
12	9	4	1	8	16
19	12	8	14	19	13
5	20	2	23	4	25
9	5	21	21	18	19
6	26	1	11	7	24
16	21	26	29	26	14
3	29	8	19	24	1
4	8	8	13	21	4
23	6	16	7	23	11
7	4	28	15	2	5
8	28	7	8	27	21
14	14	12	5	9	29
10	22	17	16	16	15
11	17	6	11	3	20
15	31	29	17	20	26
24	16	15	31	10	9
31	2	19	28	25	23
20	13	5	20	11	27
29	19	17	6	17	10
18	15	22	24	22	28
28	27	3	26	31	12
17	1	24	3	5	7
13	11	27	10	13	17
27	18	13	22	12	2
21	23	20	17	14	6
30	10	30	25	29	8
25	30	25	30	1	18

PRELIMINARY TEST IIA, 1982

Strain	Mean 10 Tests	Ill. Urbana	Ind. Lafayette	Iowa Marshalltown	Iowa Ames	Mich. Britton
			MATURITY (date)			
Century	+3	+3	+1		+2	+5
Corsoy 79 (II)	9-20	9-8	9-9		9-14	9-15
Lakota (I)	-5	-7	-5		-11	-6
Pella (III)	+6	+8	+4		+10	+6
A81-153003	-2	-2	0		-4	+1
A81-155006	+4	+5	+3		+10	+5
A81-155014	-1	0	-1		-3	+2
A81-155022	+2	+2	+1		+8	+3
A81-156027	+1	+1	+1		0	+3
A81-156031	-1	-2	-2		-5	-3
A81-157001	+1	+3	0		0	-1
A81-157003	+1	+5	+3		+3	+1
A81-157004	+1	+5	+2		+2	-1
A81-157005	+2	+5	+2		+3	+1
A81-157008	-1	+2	0		-4	-2
A81-257014	+6	+8	+5		+12	+6
A81-257017	+2	+1	+3		+2	+5
A81-257031	+3	+4	+3		+10	+5
A81-351016	+9	+9	+9		+14	+9
Gnome	+5	+5	+5		+12	+5
HC77-689	+5	+7	+7		+10	+6
HC77-5535	+3	+1	+2		+10	+5
HC78-675	+7	+6	+7		+13	+7
HC78-1631	+5	+6	+5		+12	+7
HC79-387	+7	+5	+6		+12	+9
HC79-478	+5	+6	+6		+10	+5
HC79-499	+4	+3	+4		+6	+7
HC79-786	+4	+4	+5		+11	+5
HC79-788	+4	+3	+5		+10	+5
HC79-794	+4	+3	+5		+10	+4
HC79-1550	+6	+7	+7		+13	+7
Date planted	5-19	5-4	5-11		5-3	5-12
Days to mature	124	127	121		134	126

PRELIMINARY TEST IIA, 1982

Mich.	NE	NJ	Ohio	S.D.	Wis.
Saginaw	Mead	Adelphia	Hoytville	Centerville	Arlington
			MATURITY (date)		
+4	+2	+2	+4	+3	+1
10-6	9-30	9-22	9-7	9-29	10-4
-3	-4	-9	-2	-6	-4
+6	+5	+2	+7	+9	0
+1	-1	-1	+1	+4	-1
+4	0	+3	+2	+4	+2
-2	-1	0	+1	+1	-2
+2	-1	+1	+3	+1	-1
+1	-1	0	+1	+4	-1
+3	-1	0	+2	+1	0
-1	+1	0	+3	+2	-2
-1	0	0	+3	+1	-1
+4	0	0	+2	+1	-1
+2	0	0	+3	+1	0
-1	-1	0	+1	-1	-2
+6	+3	+2	+6	+5	+2
+3	-1	+2	+1	+4	+1
0	+1	+2	+2	+5	0
+8	+7	+9	+9	+8	+10
+3	+5	+1	+5	+7	+1
-1	+4	+2	+6	+7	+1
+2	+2	+1	+4	+5	+1
+5	+7	+2	+7	+8	+3
+2	+3	+2	+5	+7	+1
+8	+7	+2	+7	+10	+1
+1	+7	+2	+7	+7	+1
+6	+3	0	+6	+6	+2
+2	+4	+2	+4	+4	0
+3	+4	+2	+4	+5	0
+2	+4	+1	+5	+4	+1
+3	+5	+2	+5	+6	+2
5-31	6-5	6-7	5-4	6-3	5-20
128	117	108	126	118	137

PRELIMINARY TEST IIA, 1982

Strain	Mean 11 Tests	Ill. Urbana	Ind. Lafayette	Iowa Marshalltown	Iowa Ames	Mich. Britton
			LODGING (score)			
Century	1.5	1.3	1.5	1.3	1.7	1.0
Corsoy 79 (II)	2.3	4.0	2.5	2.1	3.2	2.0
Lakota (I)	3.0	4.0	2.2	2.4	4.1	3.0
Pella (III)	1.6	1.3	1.8	1.4	2.0	1.5
A81-153003	1.5	1.8	1.8	1.4	1.4	1.0
A81-155006	1.9	3.0	2.3	1.6	2.4	1.5
A81-155014	1.6	1.8	2.0	1.7	1.9	1.0
A81-155022	1.9	2.5	2.0	2.1	2.1	1.5
A81-156027	1.7	1.8	2.0	1.4	1.7	1.5
A81-156031	1.7	1.8	2.0	1.8	2.3	1.5
A81-157001	1.1	1.3	1.5	1.3	1.8	1.0
A81-157003	1.6	1.5	1.5	1.4	1.6	1.0
A81-157004	1.4	1.5	1.8	1.3	1.6	1.0
A81-157005	1.4	2.0	1.8	1.3	1.8	1.0
A81-157008	1.4	1.8	1.8	1.3	1.4	1.0
A81-257014	1.9	2.0	2.0	1.8	2.1	2.0
A81-257017	1.8	2.5	2.0	1.4	2.3	2.0
A81-257031	1.8	2.5	2.0	1.7	2.3	2.0
A81-351016	2.1	2.0	2.0	2.1	2.8	2.0
Gnome	1.4	1.0	1.5	1.6	1.5	2.0
HC77-689	1.4	1.0	1.3	1.3	1.5	2.0
HC77-5535	1.4	1.0	1.0	1.5	1.4	2.0
HC78-675	1.3	1.0	1.3	1.4	1.6	1.0
HC78-1631	1.5	1.0	1.5	1.5	1.7	2.0
HC79-387	1.2	1.0	1.0	1.4	1.3	1.0
HC79-478	1.6	1.0	1.3	1.5	1.4	2.0
HC79-499	1.3	1.0	1.5	1.3	1.2	1.0
HC79-786	1.3	1.0	1.0	1.3	1.6	1.5
HC79-788	1.3	1.0	1.3	1.3	1.5	2.0
HC79-794	1.2	1.0	1.0	1.3	1.5	1.0
HC79-1550	1.3	1.0	1.5	1.3	1.4	1.5

PRELIMINARY TEST IIA, 1982

Mich.	NE	NJ	Ohio	S.D.	Wis.
Saginaw	Mead	Adelphia	Hoytville	Centerville	Arlington
			LODGING (score)		
3.5	1.0	1.0	1.3	1.0	2.0
2.0	1.5	2.0	2.0	1.0	2.5
4.0	2.3	4.0	2.5	1.0	3.0
3.0	1.3	1.0	1.5	1.0	2.0
2.0	1.0	1.0	1.5	1.0	3.0
3.5	1.5	1.0	1.5	1.0	2.0
1.0	1.3	2.0	1.5	1.0	2.0
3.0	1.3	2.0	1.3	1.0	2.5
2.5	1.5	2.0	1.2	1.0	2.0
1.5	1.3	2.0	1.5	1.0	1.8
2.5	1.3	1.0	1.5	1.0	1.5
3.5	1.3	1.0	1.3	1.0	2.0
1.5	1.3	1.0	1.3	1.0	2.0
1.5	1.0	1.0	1.5	1.0	2.0
1.5	1.0	1.0	1.5	1.0	1.8
2.5	1.8	2.0	1.8	1.0	2.3
2.0	1.5	1.0	1.8	1.0	1.8
2.0	1.5	1.0	1.2	1.0	2.3
4.5	1.8	2.0	1.3	1.0	2.0
1.0	1.0	1.0	1.2	1.0	2.3
1.0	1.0	1.0	1.2	1.0	2.8
1.0	1.5	1.0	1.3	1.0	2.5
1.5	1.0	1.0	1.4	1.0	2.3
1.0	1.0	2.0	1.2	1.0	2.8
1.0	1.0	1.0	1.2	1.0	2.8
2.0	1.3	2.0	1.4	1.0	2.5
1.5	1.0	1.0	1.2	1.0	2.0
1.0	1.0	1.0	1.2	1.0	2.5
1.0	1.0	1.0	1.2	1.0	2.3
1.0	1.0	1.0	1.2	1.0	2.0
1.0	1.0	1.0	1.2	1.0	2.5

PRELIMINARY TEST IIA, 1982

Strain	Mean 11 Tests	Ill. Urbana	Ind. Lafayette	Iowa Marshalltown	Iowa Ames	Mich. Britton
		PLANT HEIGHT (inches)				
Century	36	47	40	40	42	36
Corsoy 79 (II)	38	46	38	42	48	38
Lakota (I)	39	42	38	42	50	39
Pella (III)	38	48	40	42	46	38
A81-153003	36	44	36	38	38	34
A81-155006	36	44	38	38	44	37
A81-155014	33	38	34	36	38	33
A81-155022	35	45	36	40	40	35
A81-156027	35	44	34	38	40	35
A81-156031	35	44	36	40	41	36
A81-157001	35	42	35	39	41	34
A81-157003	36	45	35	42	46	33
A81-157004	33	41	31	38	40	33
A81-157005	35	42	35	38	40	35
A81-157008	33	42	35	36	39	31
A81-257014	40	47	42	44	48	38
A81-257017	36	44	38	40	40	36
A81-257031	36	43	37	42	44	36
A81-351016	39	47	42	44	46	38
Gnome	23	22	23	28	25	29
HC77-689	21	17	18	30	16	27
HC77-5535	25	24	22	32	24	30
HC78-675	23	22	20	28	25	28
HC78-1631	25	24	24	31	26	30
HC79-387	20	20	19	30	14	24
HC79-478	27	26	27	30	28	30
HC79-499	29	29	30	34	36	30
HC79-786	23	21	24	28	24	24
HC79-788	23	22	24	26	24	27
HC79-794	22	19	22	26	22	26
HC79-1550	25	23	25	30	28	29

PRELIMINARY TEST IIA, 1982

Mich. Saginaw	NE Mead	NJ Adelphia	Ohio Hoytville	S.D. Centerville	Wis. Arlington
			PLANT HEIGHT (inches)		
39	32	30	31	30	32
38	39	30	32	36	37
40	40	34	30	37	40
37	40	31	31	32	33
38	31	27	31	29	31
34	34	31	30	32	34
33	30	30	28	31	32
38	34	30	28	31	33
37	33	29	28	33	30
31	32	31	28	30	32
37	37	29	30	32	33
37	36	28	28	31	33
31	34	26	26	31	27
34	35	27	29	34	31
34	33	26	30	31	30
42	43	34	33	36	36
34	36	32	32	32	33
33	36	32	30	29	31
45	46	32	26	33	35
21	24	23	14	23	26
19	23	21	14	23	27
27	28	21	18	26	28
19	23	22	19	24	24
27	23	23	18	23	27
20	21	18	14	20	24
26	26	24	26	26	27
31	28	24	24	28	31
21	23	20	18	21	26
18	23	19	22	23	26
20	23	19	18	20	24
24	24	21	18	26	26

PRELIMINARY TEST IIA, 1982

Strain	Mean 8 Tests	Ill. Urbana	Ind. Lafayette	Iowa Marshalltown	Iowa Ames	Mich. Britton
			SEED QUALITY (score)			
Century	1.5	1.8	1.0		1.8	
Corsoy 79 (II)	1.4	1.4	1.0		1.3	
Lakota (I)	1.7	1.7	1.0		2.0	
Pella (III)	1.4	1.9	1.0		1.5	
A81-153003	1.4	1.5	1.0		1.6	
A81-155006	1.7	1.4	1.0		1.4	
A81-155014	1.7	1.5	1.5		1.6	
A81-155022	1.4	1.4	1.0		2.0	
A81-156027	1.6	1.2	1.5		1.5	
A81-156031	1.6	1.6	1.0		2.1	
A81-157001	1.5	2.0	1.0		1.4	
A81-157003	1.6	2.5	1.0		1.6	
A81-157004	1.5	1.9	1.0		1.6	
A81-157005	1.6	1.9	1.0		1.9	
A81-157008	1.9	1.8	1.5		1.7	
A81-257014	1.3	1.2	1.0		2.0	
A81-257017	1.5	1.8	1.0		2.2	
A81-257031	1.8	2.0	1.5		1.7	
A81-351016	2.0	2.8	1.5		1.7	
Gnome	1.3	1.2	1.0		1.3	
HC77-689	1.5	1.7	1.5		1.6	
HC77-5535	1.5	1.5	1.0		1.4	
HC78-675	1.5	1.6	1.0		1.9	
HC78-1631	1.4	1.7	1.0		1.4	
HC79-387	1.5	2.0	1.0		1.5	
HC79-478	1.5	1.6	1.0		1.5	
HC79-499	1.2	1.2	1.0		1.4	
HC79-786	1.3	1.2	1.0		1.3	
HC79-788	1.3	1.2	1.0		1.4	
HC79-794	1.4	1.4	1.0		1.4	
HC79-1550	1.5	1.5	1.0		1.4	

PRELIMINARY TEST IIA, 1982

Mich. Saginaw	NE Mead	NJ Adelphia	Ohio Hoytville	S.D. Centerville	Wis. Arlington
			SEED QUALITY (score)		
	1.0	1.0	2.5	2.0	1.0
	1.3	1.0	1.7	2.0	1.5
	1.3	1.5	1.5	2.0	2.5
	1.0	1.0	1.6	2.0	1.0
	1.0	1.0	1.3	2.0	1.5
	1.0	1.0	2.0	3.0	2.5
	1.0	1.0	2.2	2.0	2.5
	1.0	1.0	1.2	2.0	1.0
	1.3	1.0	2.3	2.0	1.5
	1.0	1.0	2.0	2.0	2.0
	1.5	1.0	1.8	2.0	1.5
	1.5	1.0	1.3	2.0	1.5
	1.8	1.0	1.4	2.0	1.5
	1.3	1.0	1.7	3.0	1.0
	1.8	1.0	1.5	3.0	2.5
	1.0	1.0	1.3	2.0	1.0
	1.0	1.0	2.2	2.0	1.0
	1.0	1.0	2.4	3.0	1.5
	1.3	1.0	2.0	3.0	2.5
	1.0	1.0	1.7	2.0	1.0
	1.0	1.0	1.8	2.0	1.5
	1.5	1.0	1.7	3.0	1.0
	1.0	1.0	1.7	2.0	1.5
	1.0	1.0	1.5	2.0	1.5
	1.0	1.0	1.3	2.0	2.0
	1.0	1.0	1.6	3.0	1.5
	1.0	1.0	1.2	2.0	1.0
	1.0	1.0	2.1	2.0	1.0
	1.0	1.0	1.7	2.0	1.0
	1.0	1.0	2.0	2.0	1.0
	1.0	1.0	2.5	2.0	1.5

PRELIMINARY TEST IIA, 1982

Strain	Mean 10 Tests	Ill. Urbana	Ind. Lafayette	Iowa Marshalltown	Iowa Ames	Mich. Britton
			SEED SIZE (g/100)			
Century	18.3	18.4	19.2		16.5	17.5
Corsoy 79 (II)	15.1	16.7	17.0		14.4	14.0
Lakota (I)	14.9	16.1	17.2		12.1	13.7
Pella (III)	19.4	21.2	21.2		19.2	16.2
A81-153003	17.6	18.2	19.1		16.9	16.4
A81-155006	17.1	18.3	19.2		18.0	15.7
A81-155014	18.9	20.4	21.7		16.6	17.4
A81-155022	14.6	16.0	16.8		13.4	13.3
A81-156027	17.1	19.2	18.6		14.8	16.3
A81-156031	16.1	18.7	16.9		14.6	15.7
A81-157001	16.5	19.7	18.3		15.6	15.0
A81-157003	17.7	21.0	20.1		16.4	15.9
A81-157004	16.4	19.9	19.0		16.4	15.0
A81-157005	16.9	20.1	18.2		16.4	15.6
A81-157008	16.8	19.8	19.2		15.3	15.4
A81-257014	15.8	17.5	16.7		15.5	14.4
A81-257017	17.9	18.7	19.9		16.0	17.5
A81-257031	17.6	19.8	18.4		17.8	16.2
A81-351016	18.5	19.9	20.2		19.9	18.3
Gnome	15.3	17.1	16.5		16.2	13.7
HC77-689	15.6	19.0	18.2		15.8	14.3
HC77-5535	14.9	16.1	17.0		14.6	13.4
HC78-675	15.7	18.4	17.3		15.0	14.3
HC78-1631	13.7	16.2	15.8		14.0	12.4
HC79-387	15.3	18.2	18.4		13.8	13.6
HC79-478	14.7	16.7	16.7		14.1	13.6
HC79-499	15.8	16.8	16.8		14.2	14.4
HC79-786	15.8	16.8	16.7		15.8	14.2
HC79-788	15.3	17.0	16.8		14.9	14.5
HC79-794	15.7	16.6	17.8		15.7	14.6
HC79-1550	14.8	18.0	16.6		16.4	12.8

PRELIMINARY TEST IIA, 1982

Mich. Saginaw	NE Mead	NJ Adelphia	Ohio Hoytville	S.D. Centerville	Wis. Arlington
			SEED SIZE (g/100)		
19.1	22.7	16.0	16.9	19.8	16.9
14.4	18.5	13.0	14.1	15.4	13.8
15.6	19.5	12.0	13.0	14.9	14.8
20.8	22.6	16.0	17.7	20.6	18.8
16.8	22.1	14.0	16.1	19.5	16.7
16.4	18.6	15.0	15.5	18.0	16.3
17.8	23.7	16.0	17.9	20.1	17.3
15.5	17.3	12.0	12.4	16.4	12.9
17.5	19.9	14.0	16.2	18.2	16.7
15.8	18.9	14.0	13.9	16.6	15.4
16.0	19.2	13.0	15.7	17.1	15.8
17.4	21.1	14.0	16.9	19.2	14.5
16.0	20.1	12.0	15.1	16.4	14.2
16.6	20.3	13.0	15.3	17.6	16.3
16.8	20.8	14.0	14.7	16.8	15.3
16.7	17.5	13.0	14.7	15.7	16.3
18.6	19.1	16.0	16.9	19.0	17.5
17.0	19.8	17.0	16.1	18.1	16.1
18.4	20.6	15.0	16.4	20.1	16.2
15.7	18.0	13.0	12.2	16.2	14.7
13.5	17.6	12.0	14.2	16.3	14.8
13.9	19.1	13.0	12.3	14.9	14.7
15.3	17.6	15.0	14.2	16.2	13.6
12.8	17.4	10.0	12.7	13.7	12.1
16.8	17.3	12.0	13.8	14.7	14.6
14.0	18.1	13.0	12.7	14.5	13.2
15.9	18.9	14.0	14.9	16.7	15.8
16.0	18.4	14.0	13.7	16.8	15.7
13.8	17.2	13.0	14.0	16.6	14.9
14.9	18.4	13.0	14.1	16.6	15.6
14.1	17.4	12.0	11.7	14.9	14.4

PRELIMINARY TEST IIA, 1982

Strain	Mean 5 Tests	Ill. Urbana	Ind. Lafayette	Iowa Ames	NE Mead	Ohio Hoytville
			PROTEIN (%)			
Century	40.5	39.2	40.0	41.6	42.5	39.0
Corsoy 79 (II)	39.3	40.3	39.0	40.0	40.0	37.1
Lakota (I)	41.3	41.4	42.4	42.8	42.3	37.6
Pella (III)	37.8	37.7	38.5	39.2	38.6	34.8
A81-153003	39.7	39.5	40.7	40.8	40.5	37.1
A81-155006	39.4	40.2	39.4	40.3	41.0	36.3
A81-155014	38.4	39.0	38.6	38.5	39.3	36.4
A81-155022	38.5	38.9	40.4	39.3	38.8	35.2
A81-156027	37.6	37.6	37.6	39.8	38.0	34.9
A81-156031	40.9	41.3	41.1	41.7	40.1	38.6
A81-157001	40.3	40.4	41.3	41.1	41.2	37.6
A81-157003	39.9	40.6	40.8	40.9	40.7	36.7
A81-157004	39.2	39.2	40.7	40.0	40.4	35.7
A81-157005	39.9	41.5	40.0	40.8	40.3	36.8
A81-157008	39.9	40.7	40.6	40.8	40.6	36.8
A81-257014	40.5	41.3	41.0	41.8	40.9	37.5
A81-257017	39.8	40.1	40.0	40.9	40.8	37.4
A81-257031	40.1	39.9	40.8	41.5	41.5	36.9
A81-351016	37.9	37.2	39.3	39.7	39.2	34.0
Gnome	40.2	41.6	40.6	41.4	41.0	36.5
HC77-689	39.1	39.9	40.2	40.8	38.8	35.9
HC77-5535	39.0	38.7	39.3	40.3	40.6	36.0
HC78-675	40.2	40.4	41.4	41.8	40.6	37.4
HC78-1631	39.4	39.5	40.1	40.1	40.5	36.9
HC79-387	42.0	42.5	43.3	43.0	42.0	39.3
HC79-478	40.4	40.2	41.2	41.5	41.5	37.5
HC79-499	40.6	40.0	40.4	42.4	41.7	38.6
HC79-786	40.9	41.3	41.4	42.3	41.0	38.7
HC79-788	40.8	40.5	40.8	42.1	40.9	39.8
HC79-794	40.7	40.4	40.5	42.0	41.5	39.3
HC79-1550	38.8	39.1	40.1	40.6	40.0	34.4

PRELIMINARY TEST IIA, 1982

Strain	Mean 5 Tests	Ill. Urbana	Ind. Lafayette	Iowa Ames	NE Mead	Ohio Hoytville
		OIL (%)				
Century	17.9	19.3	18.4	16.5	17.1	18.1
Corsoy 79 (II)	18.7	19.1	19.1	17.4	18.1	19.7
Lakota (I)	17.7	18.9	17.1	16.0	16.8	19.9
Pella (III)	19.3	20.3	19.3	18.5	18.2	20.4
A81-153003	18.7	19.5	18.4	17.7	18.1	19.7
A81-155006	18.5	18.7	19.0	17.8	17.9	19.3
A81-154014	18.9	18.9	19.1	18.0	19.1	19.6
A81-155022	19.3	19.9	18.5	18.1	19.2	20.6
A81-156027	19.6	20.5	20.4	17.3	18.9	20.7
A81-156031	18.7	19.6	18.8	17.4	18.2	19.4
A81-157001	18.5	18.8	18.1	17.7	17.6	20.4
A81-157003	18.2	18.9	17.9	17.0	18.1	18.9
A81-157004	18.2	18.3	18.3	17.1	17.8	19.6
A81-157005	18.3	18.8	18.1	17.3	18.0	19.4
A81-157008	18.6	18.8	18.4	17.4	18.2	20.3
A81-257014	17.2	17.6	17.0	16.6	16.7	18.3
A81-257017	18.3	18.6	18.6	17.4	17.6	19.1
A81-257031	18.2	19.2	18.0	18.0	17.4	18.6
A81-351016	18.3	18.8	17.9	17.9	17.6	19.4
Gnome	18.5	19.1	18.5	17.7	17.9	19.5
HC77-689	17.9	18.3	17.3	17.4	18.0	18.7
HC77-5535	18.7	19.8	18.2	18.3	17.5	19.9
HC78-675	18.5	19.0	17.6	18.2	17.6	20.0
HC78-1631	19.1	19.9	18.8	19.2	18.3	19.4
HC79-387	17.6	17.4	17.7	17.1	17.0	18.7
HC79-478	18.6	19.8	18.7	17.5	17.6	19.6
HC79-499	18.0	19.3	18.3	17.3	16.7	18.4
HC79-786	17.8	18.4	17.3	17.5	17.8	18.2
HC79-788	18.1	19.1	18.0	17.3	17.8	18.3
HC79-794	18.3	18.9	18.5	18.1	17.8	18.0
HC79-1550	19.3	19.6	18.5	18.9	18.6	20.9

PRELIMINARY TEST IIB, 1982

Strain	Parentage	Generation Composited
1. Century	Calland x Bonus	F_6
2. Corsoy 79 (II)	Corsoy^6 x Lee 68	BC_5F_3
3. Lakota (I)	AP6M(31)(C1)	F_4
4. Pella (III)	L66L-137 x Calland	F_4
5. C1603	Wells x C1512	F_6
6. C1605	C1512 x Calland	F_6
7. C1607	A100 x C1524	F_6
8. C1608	Hodgson x C1528	F_6
9. C1609	Woodworth x C1524	F_6
10. C1612	CX588-78 x A73D22	F_6
11. C1613	CX621-318 x CX588-78	F_6
12. C1615	A73D22 x CX621-318	F_6
13. HW8121	Century x Pella	F_5
14. HW8122	A76-202015 x A76-304005	F_5
15. HW8123	A76-202015 x A76-304005	F_5
16. HW8124	Pride B-216 x Century	F_5
17. HW8125	A76-202015 x A76-304005	F_5
18. L28	Corsoy 79 x [Corsoy^6 x (Harosoy^5 x D54-2437)]	$2BC_6F_3$
19. L80-2316	Beeson x L70-2283	F_9
20. L80-2351	Beeson x L70-2283	F_9
21. LN80-9140	Century x Asgrow 2656	F_4
22. LN80-9372	Weber x A76-202015	F_4
23. LN80-9419	Weber x A76-202015	F_4
24. LN80-10805	Asgrow 2656 x S48	F_4
25. M74-312	M68-48 x M64-3	F_5
26. M74-415	Peterson P61-22 x 554-8	F_5
27. U76168	Williams x PI 89.075	F_5
28. U76302	Williams x Amsoy 71	F_5
29. U76351	Williams x Amsoy 71	F_5
30. U76361	Williams x Amsoy 71	F_5
31. U76467	Williams x Amsoy 71	F_5

PRELIMINARY TEST IIB, 1982

Descriptive and Disease Data

Strain	Descriptive Code	Chlorosis Score Ames	Shattering Manhattan 2 Weeks	PS	PSB	SMV	Germ
				Lafayette			
				a %	n %	a score	%
Century	PTBr IYBl I	2.8	2	50	2	5E	92
Corsoy 79 (II)	PGBr DYY I	4.2	2	59	2	5E	96
Lakota (I)	PTT SYBl I	2.5	2	55	5	4E	80
Pella (III)	PTT DYBl I	4.0	3	43	1	5E	91
C1603	PGBr DYIb I	3.2	3	67	1	4M	97
C1605	PTBr DYBl I	2.0	4	47	0	5E	95
C1607	PGBr SYIb I	3.8	2	51	2	5M	94
C1608	PGBr DYBf I	2.8	2	37	4	4M	94
C1609	WGBr DYBf I	2.5	2	79	3	3E	94
C1612	PGBr DYY I	3.8	3	87	0	4E	86
C1613	PGBr DYY I	2.2	3	76	2	5E	89
C1615	PGBr DYY SD	3.0	3	63	0	5E	94
HW8121	PTT IYBl I	4.2	2	58	2	5E	87
HW8122	PGBr DYY I	3.5	3	50	6	4E	85
HW8123	PGBr DYBf+Ib I	3.0	3	48	3	3E	92
HW8124	P+WGBr IYBf+Ib I	4.5	2	32	0	5E	99
HW8125	PG+TBr DYY I	4.0	3	34	5	5E	92
L28	PGBr DYY I	3.2	3	58	4	5E	91
L80-2316	PGBr SYBf I	3.0	2	62	2	2E	93
L80-2351	PGBr SYBf I	2.5	2	57	0	3M	84
LN80-9140	PGBr DYIb I	2.8	2	37	2	2E	95
LN80-9372	WTBr DYBl I	3.2	2	27	1	5E	97
LN80-9419	WTBr DYBl I	2.8	2	36	3	5E	95
LN80-10508	PGBr DYIb I	2.2	2	31	1	5E	96
M74-312	WGBr DYBf I	2.5	3	23	0	3E	91
M74-415	PGBr DYBf I	4.2	2	38	0	3M	98
U76168	PTT SYBl I	2.8	2	12	3	5E	96
U76302	PTT SYY I	3.8	2	30	7	5E	91
U76351	PTT SYBl+Br I	3.0	2	45	6	5E	91
U76361	WGT SYBf I	3.0	2	71	1	4M	90
U76467	WGT SYBf I	3.5	2	74	5	5E	90

PRELIMINARY TEST IIB, 1982

Disease Data

Strain	BSR Ames Plant	BSR Ames Stem	BSR Lafayette Stem	BSR Urbana Foliar	PR_1 Lafayette	PR_1 Ames	PR_4 Ames	PR Tolerance Hoytville	PR Tolerance Vickery	FE_2 Lafayette
	n %	n %	n %	n score	a reaction	a reaction	a reaction	n score	n score	a score
Century	100	87.6	20	3	R	H	S	1.5	3.3	5
Corsoy 79 (II)	90	61.6	60	4	R	R	S	2.5	3.4	5
Lakota (I)	70	35.9	80	3	R	H	S	3.0	3.2	3
Pella (III)	70	14.0	80	2	R	R	S	3.0	3.0	2
C1603	90	49.7	20	2	R	S	S	1.5	3.9	5
C1605	60	27.2	0	2	R	S	S	4.5	4.4	5
C1607	100	44.6	40	3	S	S	S	4.0	3.2	2
C1608	100	59.8	40	4	R	R	S	2.5	3.1	5
C1609	90	64.5	20	3	S	S	S	5.0	4.0	3
C1612	100	64.2	40	3	S	S	S	3.5	3.6	4
C1613	70	24.1	20	3	R	S	S	3.5	3.0	5
C1615	60	33.1	80	3	H	S	S	3.5	3.5	5
HW8121	100	57.1	20	3	R	R	S	2.5	3.0	5
HW8122	90	31.4	20	3	S	S	S	2.5	2.9	5
HW8123	100	77.5	20	2	S	S	S	3.0	3.0	5
HW8124	80	43.8	40	4	S	S	S	2.5	3.0	5
HW8125	100	87.0	0	3	S	S	S	3.0	3.0	5
L28	100	84.1	0	5	R	S	R	3.0	3.2	4
L80-2316	90	49.2	60	2	R	S	S	5.0	3.5	4
L80-2351	100	77.1	100	2	R	S	S	3.5	3.2	1
LN80-9140	100	65.5	40	4	R	S	S	3.0	3.0	5
LN80-9372	80	46.9	40	4	S	S	S	3.0	3.1	4
LN80-9419	100	51.4	100	5	S	S	S	3.0	3.0	5
LN80-10805	90	39.6	100	3	H	S	S	3.5	4.0	5
M74-312	80	25.7	60	4	R	S	S	4.0	4.0	5
M74-415	80	27.2	60	4	S	S	S	3.5	3.1	5
U76168	50	16.1	20	1	S	S	S	4.0	3.4	5
U76302	50	21.0	60	2	R	S	S	3.0	3.1	4
U76351	90	38.3	80	4	S	S	S	3.5	3.2	4
U76361	80	31.4	40	3	R	S	S	4.0	3.4	5
U76467	100	61.5	80	2	R	S	S	3.5	3.8	3

PRELIMINARY TEST IIB, 1982

Regional Summary

Strain	Yield	Rank	Maturity	Lodging	Plant Height	Seed Quality	Seed Size	Composition Protein	Composition Oil
No. of Tests	11 bu/a	11 no.	10 date	11 score	11 in.	8 score	10 g/100	5 %	5 %
Century	53.3	2	+3	1.5	36	1.6	16.4	40.8	18.6
Corsoy 79 (II)	48.7	20	9-20	2.4	39	1.5	15.0	39.5	20.2
Lakota (I)	44.8	27	-5	2.9	39	1.6	14.9	41.4	18.7
Pella (III)	51.8	6	+6	1.8	38	1.4	19.4	37.8	20.2
C1603	51.7	7	+1	1.6	37	1.6	17.6	40.3	19.7
C1605	47.1	26	+5	1.7	42	1.9	19.5	40.7	17.7
C1607	44.7	29	-1	1.7	35	1.5	16.2	39.2	20.1
C1608	49.0	19	+2	2.0	41	1.5	17.6	37.9	20.5
C1609	44.8	27	+1	1.6	40	1.8	18.1	39.7	19.3
C1612	49.7	13	+2	1.7	37	2.3	18.0	40.2	17.9
C1613	48.2	23	+1	2.3	42	1.8	18.0	40.3	18.5
C1615	47.6	25	-3	1.5	33	1.8	16.4	39.5	18.8
HW8121	53.0	3	+4	1.7	39	1.6	20.1	38.5	20.2
HW8122	51.5	9	+3	2.3	40	1.8	16.1	39.8	19.4
HW8123	52.2	5	+4	2.2	36	1.5	15.7	40.2	18.3
HW8124	48.0	24	+3	1.9	37	1.6	15.5	40.7	18.5
HW8125	49.1	17	+6	2.5	39	1.5	16.3	40.7	18.0
L28	49.7	13	0	2.4	39	1.4	14.7	39.5	20.3
L80-2316	43.8	31	+4	1.7	35	1.7	16.6	38.2	19.3
L80-2351	43.9	30	-1	1.6	36	1.8	16.7	36.9	20.4
LN80-9140	51.1	10	0	1.9	38	1.5	18.2	41.1	17.8
LN80-9372	52.7	4	0	1.8	33	1.4	14.8	38.8	20.5
LN80-9419	53.5	1	+1	1.7	33	1.4	15.3	38.6	21.4
LN80-10805	51.5	8	+1	1.8	36	1.6	16.7	39.9	19.5
M74-312	49.3	15	0	1.9	34	2.1	17.7	40.3	20.1
M74-415	49.2	16	+1	1.6	35	1.8	15.8	40.4	19.2
U76168	48.7	20	+5	2.1	35	1.3	14.6	38.9	20.5
U76302	50.8	11	+4	2.0	38	1.8	17.0	38.4	19.8
U76351	50.2	12	+4	1.6	37	1.5	17.4	39.5	19.3
U76361	48.3	22	+4	1.7	39	1.5	16.2	40.1	19.8
U76467	49.1	17	-1	1.9	38	1.6	15.8	40.4	20.0

*124 days after planting

The strain LN80-9419 was the only entry that yielded more than the Group II checks. This strain had very good lodging resistance but was susceptible to brown stem rot and phytophthora root rot. The SCN race 3 resistant strains, L80-2316 and L80-2351, had very good lodging resistance but did not yield as well as other entries in the test.

PRELIMINARY TEST IIB, 1982

Strain	Mean 11 Tests	Ill. Urbana	Ind. Lafayette	Iowa Marshalltown	Iowa Ames	Mich. Britton
			YIELD (bu/a)			
Century	53.3	72.6	69.6	46.4	51.8	48.1
Corsoy 79 (II)	48.7	66.6	61.7	46.8	46.8	48.8
Lakota (I)	44.8	58.8	57.2	38.1	44.9	47.8
Pella (III)	51.8	71.9	63.8	46.7	51.4	44.1
C1603	51.7	67.8	66.6	49.4	48.8	50.6
C1605	47.1	63.6	68.3	42.1	51.7	43.3
C1607	44.7	62.3	62.5	45.1	45.1	45.0
C1608	49.0	60.1	66.6	44.2	47.3	47.6
C1609	44.8	65.7	67.8	46.3	48.5	43.2
C1612	49.7	62.0	70.9	46.4	48.9	47.3
C1613	48.2	65.3	63.1	46.2	44.5	48.9
C1615	47.6	67.4	58.6	45.7	46.4	42.4
HW8121	53.0	68.1	75.0	48.5	49.9	52.7
HW8122	51.5	73.6	69.3	43.4	55.9	48.5
HW8123	52.2	74.7	70.0	45.7	47.7	49.7
HW8124	48.0	70.2	61.0	41.1	47.5	42.8
HW8125	49.1	70.5	71.2	44.7	51.6	46.2
L28	49.7	65.6	67.5	45.1	44.9	48.5
L80-2316	43.8	60.8	63.2	41.1	48.2	45.5
L80-2351	43.9	63.5	52.0	39.7	46.8	42.6
LN80-9140	51.1	62.9	63.8	48.3	49.5	51.5
LN80-9372	52.7	67.4	64.2	49.6	53.7	52.5
LN80-9419	53.5	69.4	67.6	46.7	57.4	48.4
LN80-10805	51.5	70.9	70.0	50.5	55.9	42.5
M74-312	49.3	61.5	60.7	48.6	49.6	47.5
M74-415	49.2	66.1	67.1	47.6	55.2	48.5
U76168	48.7	65.9	68.8	46.5	55.9	43.0
U76302	50.8	60.4	67.2	46.4	53.4	50.6
U76351	50.2	58.9	72.1	44.5	51.0	48.4
U76361	58.3	62.8	63.1	44.9	46.8	45.6
U76467	49.1	64.2	62.8	45.1	47.1	47.1
C.V. (%)		5.8	4.1	4.0	6.5	6.2
L.S.D. (5%)		7.7	6.7	3.8	6.6	6.0
Row sp. (in.)		30	24	27	27	20
Row/plot		4	4	4	4	4
Reps		2	2	2	2	2

PRELIMINARY TEST IIB, 1982

Mich.	NE	NJ	Ohio	S.D.	Wis.
Saginaw	Mead	Adelphia	Hoytville	Centerville	Arlington
			YIELD (bu/a)		
60.9	59.9	36.2	50.8	55.0	35.1
52.9	52.6	33.7	48.3	42.7	35.0
52.5	47.2	32.9	40.2	39.2	33.8
59.1	57.4	40.1	47.9	50.6	36.7
57.1	54.5	38.2	53.5	45.9	35.8
47.0	53.9	37.2	29.8	46.5	34.9
32.7	50.1	34.7	38.2	39.4	36.6
50.5	56.2	41.0	43.5	46.8	35.6
24.0	44.4	42.9	34.6	35.0	40.0
48.2	56.6	41.9	42.4	44.6	37.6
55.5	50.8	38.0	40.7	41.3	35.5
51.9	49.7	41.8	38.1	40.5	41.4
54.3	56.8	43.6	52.9	44.1	37.5
54.6	52.0	39.3	49.8	44.1	36.3
56.7	54.0	38.1	52.3	44.5	40.4
52.0	54.5	37.1	40.8	46.3	34.3
50.9	42.5	33.1	48.4	46.8	34.2
54.9	49.7	38.1	46.2	47.4	38.4
40.5	52.3	34.6	21.4	42.1	31.9
47.9	46.5	40.0	33.7	38.0	32.4
59.5	54.8	40.2	45.6	46.8	38.9
51.5	52.7	42.0	47.9	50.2	42.0
55.8	57.4	41.7	49.5	52.0	42.9
50.4	56.0	44.9	43.3	44.3	38.3
56.1	48.8	39.1	45.5	48.7	36.6
44.2	54.9	37.6	41.7	40.3	37.8
46.8	56.1	37.0	34.7	45.1	35.8
59.4	52.4	38.5	46.0	46.2	38.5
53.4	58.8	39.2	44.1	41.9	40.0
57.0	54.7	40.9	40.1	40.4	35.4
49.1	54.7	38.1	44.8	48.5	38.8
10.4	7.3	7.4	14.1	9.4	7.5
10.9	7.8	5.9	12.8	8.4	5.6
20	30	30	20	30	30
4	4	3	5	4	4
2	2	4	2	2	2

PRELIMINARY TEST IIB, 1982

Strain	Mean 11 Tests	Ill. Urbana	Ind. Lafayette	Iowa Marshalltown	Iowa Ames	Mich. Britton
			YIELD RANK			
Century	2	3	7	12	8	14
Corsoy 79 (II)	20	13	26	8	24	8
Lakota (I)	27	31	30	31	29	15
Pella (III)	11	4	19	9	11	24
C1603	6	10	17	3	17	4
C1605	26	20	10	27	9	25
C1607	29	24	25	19	28	23
C1608	19	29	16	25	22	16
C1609	27	16	11	15	18	26
C1612	13	25	4	12	16	18
C1613	23	18	22	16	31	7
C1615	25	11	29	17	27	31
HW8121	3	9	1	5	13	1
HW8122	7	2	8	26	2	11
HW8123	5	1	6	17	20	6
HW8124	24	7	27	28	21	28
HW8125	17	6	3	23	10	20
L28	13	17	13	19	29	10
L80-2316	31	28	21	28	19	22
L80-2351	30	21	31	30	24	29
LN80-9140	9	22	19	6	15	3
LN80-9372	4	11	18	2	6	2
LN80-9419	1	8	12	9	1	12
LN80-10805	7	5	5	1	2	30
M74-312	15	26	28	4	14	17
M74-415	16	14	15	7	5	9
U76168	20	15	9	11	2	27
U76302	10	27	14	12	7	5
U76351	12	30	2	24	12	13
U76361	22	23	22	22	24	21
U76467	17	19	24	19	23	19

PRELIMINARY TEST IIB, 1982

Mich. Saginaw	NE Mead	NJ Adelphia	Ohio Hoytville	S.D. Centerville	Wis. Arlington
			YIELD RANK		
1	1	26	4	1	23
15	19	29	8	21	25
16	28	31	23	29	29
4	3	11	9	3	15
5	14	17	1	14	20
26	17	24	30	11	26
30	24	27	25	28	16
21	7	8	17	9	21
31	30	3	28	31	6
24	6	5	19	16	13
10	23	21	22	24	22
18	25	6	26	25	3
13	5	2	2	19	14
12	23	13	5	20	18
7	16	19	3	17	4
17	14	23	21	12	27
20	31	30	7	8	28
11	26	18	11	7	10
29	21	28	31	22	31
25	29	12	29	30	30
2	11	10	13	10	7
19	18	4	9	4	2
9	4	7	6	2	1
22	9	1	18	18	11
8	27	15	14	5	17
28	10	22	20	27	12
27	8	25	27	15	19
3	20	16	12	13	9
14	2	14	16	23	5
6	12	9	23	26	24
23	16	19	15	6	8

PRELIMINARY TEST IIB, 1982

Strain	Mean 10 Tests	Ill. Urbana	Ind. Lafayette	Iowa Marshalltown	Iowa Ames	Mich. Britton
			MATURITY (date)			
Century	+3	+5	+1		+2	+4
Corsoy 79 (II)	9-20	9-7	9-10		9-14	9-17
Lakota (I)	-5	-5	-5		-11	-7
Pella (III)	+6	+10	+4		+10	+5
C1603	+1	+6	0		-2	+2
C1605	+5	+8	+4		+5	+5
C1607	-1	+1	-2		-4	-2
C1608	+2	+3	+1		-2	+3
C1609	+1	+4	+1		-4	0
C1612	+2	+5	+1		+2	+2
C1613	+1	+2	-1		-1	+2
C1615	-3	-4	-4		-8	-6
HW8121	+4	+6	+2		+4	+5
HW8122	+3	+6	+1		+7	+4
HW8123	+4	+7	+3		+7	+5
HW8124	+3	+5	0		+7	+3
HW8125	+6	+10	+2		+12	+6
L28	0	+1	-3		-4	-2
L80-2316	+4	+7	+2		+11	+3
L80-2351	-1	+1	-2		-4	0
LN80-9140	0	+1	-1		-5	0
LN80-9372	0	+2	-1		-1	+2
LN80-9419	+1	-2	-2		+4	+2
LN80-10805	+1	+1	0		-2	+4
M74-312	0	-2	-1		-4	0
M74-415	+1	+1	0		+4	+1
U76168	+5	+8	+3		+12	+5
U76302	+4	+6	+3		+10	+4
U76351	+4	+5	+2		+6	+2
U76361	+4	+8	+1		+4	+4
U76467	-1	+2	+1		-6	-1
Date planted	5-18	5-4	5-11	6-4	5-3	5-12
Days to mature	124	126	122		134	128

PRELIMINARY TEST IIB, 1982

Mich.	NE	NJ	Ohio	S.D.	Wis.
Saginaw	Mead	Adelphia	Hoytville	Centerville	Arlington
			MATURITY (date)		
+8	+1	0	+4	+4	+1
10-4	9-30	9-22	9-7	9-29	10-4
-1	-2	-10	-2	-5	-3
+7	+6	+3	+5	+10	+2
+4	-1	0	+3	+4	-2
+8	+4	+3	+3	+8	+2
-2	-1	0	0	+1	+3
+5	-1	0	+3	+5	+1
+1	-1	+1	+1	+2	0
+6	0	0	+2	+5	0
+5	-1	+1	+1	+2	+1
-3	-2	-4	0	-2	0
+7	+3	0	+4	+5	+1
+5	-1	0	+4	+3	+1
+4	+1	+2	+4	+4	+1
+6	0	0	+3	+4	+2
+6	+3	+2	+4	+5	+4
+2	0	0	+1	-1	+1
+7	+2	-2	-1	+6	+1
+5	-2	-4	-1	-1	-2
+4	0	0	+1	+4	0
+2	-2	-3	+2	+2	-2
+1	-1	0	+1	+3	-1
+5	-1	0	0	+2	0
+5	0	+2	+2	+3	-2
+3	+1	+1	+1	+2	0
+6	+2	+2	+4	+5	+2
+7	+2	0	+4	+6	+1
+8	+3	0	+4	+5	+1
+7	0	+2	+3	+3	+11
+3	-2	-7	+1	+3	-4
6-3	6-5	6-7	5-4	6-3	5-20
123	117	107	126	118	137

PRELIMINARY TEST IIB, 1982

Strain	Mean 11 Tests	Ill. Urbana	Ind. Lafayette	Iowa Marshalltown	Iowa Ames	Mich. Britton
			LODGING (score)			
Century	1.5	2.0	1.5	1.3	1.7	1.0
Corsoy 79 (II)	2.4	3.5	2.3	2.1	3.2	2.5
Lakota (I)	2.9	4.0	2.5	2.4	4.1	3.0
Pella (III)	1.8	2.0	2.0	1.4	2.0	1.5
C1603	1.6	1.5	1.5	1.3	2.7	1.0
C1605	1.7	2.0	1.5	1.5	3.0	1.0
C1607	1.7	2.0	1.8	1.4	2.2	2.0
C1608	2.0	2.3	2.0	1.4	2.8	2.0
C1609	1.6	2.0	1.8	1.6	2.4	2.0
C1612	1.7	2.0	2.3	1.6	2.0	1.5
C1613	2.3	3.0	1.8	1.9	3.9	2.0
C1615	1.5	1.0	1.3	1.5	1.4	1.0
HW8121	1.7	1.0	1.5	1.4	2.0	1.5
HW8122	2.3	3.0	2.0	2.0	2.1	3.0
HW8123	2.2	3.0	2.5	1.5	2.2	1.5
HW8124	1.9	2.3	2.0	1.6	2.6	1.0
HW8125	2.5	3.0	2.5	2.0	2.7	3.0
L28	2.4	2.5	2.0	1.9	3.8	2.5
L80-2316	1.7	1.8	1.5	1.4	2.3	1.5
L80-2351	1.6	1.3	1.5	1.3	2.1	2.0
LN80-9140	1.9	2.5	1.5	1.3	2.5	1.5
LN80-9372	1.8	2.3	1.8	1.4	2.9	1.5
LN80-9419	1.7	2.5	1.5	1.3	2.0	1.0
LN80-10805	1.8	3.0	1.8	1.7	1.6	1.5
M74-312	1.9	1.3	1.5	1.6	2.5	2.0
M74-415	1.6	1.8	1.5	1.5	2.2	2.0
U76168	2.1	3.0	2.5	2.1	2.8	2.5
U76302	2.0	2.0	2.0	2.0	1.7	2.5
U76351	1.6	2.0	1.8	1.4	1.9	2.0
U76361	1.7	1.5	1.5	2.1	2.0	2.0
U76467	1.9	1.8	1.8	1.5	3.2	2.0

PRELIMINARY TEST IIB, 1982

Mich. Saginaw	NE Mead	NJ Adelphia	Ohio Hoytville	S.D. Centerville	Wis. Arlington
			LODGING (score)		
3.0	1.0	1.0	1.4	1.0	2.0
3.5	1.8	2.0	2.2	1.0	2.8
3.5	2.0	4.0	2.8	1.0	3.0
3.5	1.3	1.0	1.7	1.0	2.3
3.0	1.0	1.0	1.5	1.0	2.0
3.0	1.0	1.0	1.9	1.0	2.3
1.5	1.3	2.0	1.2	1.0	2.3
3.5	1.3	2.0	1.3	1.0	2.0
1.5	1.3	1.0	1.3	1.0	1.8
2.5	1.8	1.0	1.3	1.0	2.0
3.0	1.8	2.0	2.2	1.0	3.0
2.5	1.0	2.0	1.5	1.0	2.0
3.5	1.8	1.0	1.6	1.0	2.3
3.0	1.8	1.0	3.1	1.0	3.0
4.0	1.8	2.0	2.8	1.0	2.3
2.0	1.8	2.0	1.5	1.0	2.8
3.0	2.3	2.0	2.5	1.0	3.0
4.5	1.8	2.0	1.8	1.0	3.0
3.0	1.3	1.0	1.2	1.0	2.8
3.0	1.0	1.0	1.2	1.0	2.3
4.0	1.5	1.0	1.5	1.0	2.3
3.0	1.0	1.0	1.3	1.0	2.3
3.0	1.0	1.0	1.5	1.0	2.8
3.0	1.3	2.0	1.6	1.0	1.8
4.0	1.3	2.0	1.3	1.0	2.0
1.5	1.5	1.0	1.3	1.0	2.0
2.5	1.0	1.0	1.3	1.0	3.3
3.0	1.3	2.0	1.4	1.0	2.8
1.5	1.0	1.0	1.3	1.0	2.3
2.0	1.5	1.0	1.3	1.0	2.8
3.0	1.3	1.0	1.5	1.0	2.3

PRELIMINARY TEST IIB, 1982

Strain	Mean 11 Tests	Ill. Urbana	Ind. Lafayette	Iowa Marshalltown	Iowa Ames	Mich. Britton
			PLANT HEIGHT (inches)			
Century	36	47	37	40	42	35
Corsoy 79 (II)	39	47	39	42	48	39
Lakota (I)	39	42	38	42	50	38
Pella (III)	38	49	39	42	46	36
C1603	37	46	38	38	48	33
C1605	42	55	46	45	52	38
C1607	35	46	36	44	40	33
C1608	41	51	43	42	45	41
C1609	40	51	42	47	44	38
C1612	37	50	40	44	42	39
C1613	42	53	42	45	43	43
C1615	33	32	29	38	34	34
HW8121	39	49	39	43	44	35
HW8122	40	52	42	44	44	41
HW8123	36	42	40	38	42	32
HW8124	37	46	39	40	44	36
HW8125	39	45	43	44	44	38
L28	39	44	39	41	47	38
L80-2316	35	44	38	40	38	36
L80-2351	36	45	37	40	41	35
LN80-9140	38	44	39	46	40	38
LN80-9372	33	37	36	39	38	31
LN80-9419	33	40	33	38	38	31
LN80-10805	36	40	38	44	40	37
M74-312	34	37	33	40	38	32
M74-415	35	41	36	40	40	34
U76168	35	40	39	39	40	33
U76302	38	50	41	41	44	37
U76351	37	45	40	42	43	36
U76361	39	46	38	46	43	40
U76467	38	44	38	44	44	36

PRELIMINARY TEST IIB, 1982

Mich.	NE	NJ	Ohio	S.D.	Wis.
Saginaw	Mead	Adelphia	Hoytville	Centerville	Arlington
			PLANT HEIGHT (inches)		
39	36	30	30	32	32
42	39	32	32	34	38
40	37	36	32	34	37
42	39	30	30	34	31
40	35	29	33	34	32
46	42	36	28	37	39
33	38	30	26	32	33
46	42	35	32	38	34
35	39	35	30	35	39
36	38	29	26	35	28
47	46	36	32	41	38
39	35	28	25	33	36
40	37	32	34	34	37
41	38	34	36	36	35
40	38	29	33	33	31
36	39	30	32	35	32
38	41	34	36	37	34
46	38	32	31	34	38
37	36	30	18	31	36
40	33	32	24	35	34
42	38	34	28	36	32
37	29	30	22	32	33
35	30	28	27	29	33
37	36	30	28	34	33
39	31	30	26	33	31
33	36	30	27	32	32
36	40	28	26	32	32
40	38	30	30	32	31
36	39	30	28	37	34
41	41	31	30	35	36
42	41	32	28	38	34

PRELIMINARY TEST IIB, 1982

Strain	Mean 8 Tests	Ill. Urbana	Ind. Lafayette	Iowa Marshalltown	Iowa Ames	Mich. Britton
			SEED QUALITY (score)			
Century	1.6	2.3	1.0		1.7	
Corsoy 79 (II)	1.5	1.5	1.0		1.4	
Lakota (I)	1.6	1.2	1.5		1.9	
Pella (III)	1.4	1.8	1.5		1.5	
C1603	1.6	2.0	1.0		1.8	
C1605	1.9	2.5	1.0		2.3	
C1607	1.5	1.2	2.0		1.4	
C1608	1.5	1.5	1.0		1.4	
C1609	1.8	2.0	1.5		1.9	
C1612	2.3	2.9	1.5		3.0	
C1613	1.8	2.3	1.5		1.7	
C1615	1.8	1.7	1.5		1.4	
HW8121	1.6	1.8	1.5		1.5	
HW8122	1.8	1.4	1.0		1.8	
HW8123	1.5	1.5	1.0		1.7	
HW8124	1.6	1.9	1.0		1.5	
HW8125	1.5	1.5	1.0		1.5	
L28	1.4	1.4	1.0		1.3	
L80-2316	1.7	1.5	1.0		1.6	
L80-2351	1.8	2.0	1.5		2.0	
LN80-9140	1.5	1.4	1.0		1.4	
LN80-9372	1.4	1.4	1.0		1.6	
LN80-9419	1.4	1.4	1.0		1.8	
LN80-10805	1.6	1.8	1.0		1.6	
M74-312	2.1	3.0	2.0		1.9	
M74-415	1.8	1.8	1.5		1.8	
U76168	1.3	1.2	1.0		1.6	
U76302	1.8	2.5	1.0		1.8	
U76351	1.5	1.2	1.0		1.9	
U76361	1.5	1.5	1.0		1.7	
U76467	1.6	2.0	1.5		2.0	

PRELIMINARY TEST IIB, 1982

Mich. Saginaw	NE Mead	NJ Adelphia	Ohio Hoytville	S.D. Centerville	Wis. Arlington
			SEED QUALITY (score)		
	1.0	1.0	2.7	1.0	2.0
	1.5	1.0	1.7	2.0	1.5
	1.0	1.0	2.0	2.0	2.5
	1.0	1.0	1.8	1.0	2.0
	1.3	1.0	2.5	2.0	1.5
	1.3	1.5	3.3	2.0	1.5
	1.0	1.0	1.7	2.0	1.5
	1.0	1.0	2.2	2.0	1.5
	1.8	1.0	2.4	2.0	1.5
	1.8	1.5	2.5	3.0	2.0
	1.3	1.5	2.2	2.0	1.5
	1.3	1.0	2.6	3.0	1.5
	1.0	1.0	2.2	2.0	1.5
	1.3	1.0	2.1	3.0	2.5
	1.0	1.0	2.0	2.0	1.5
	1.0	1.0	2.4	2.0	2.0
	1.3	1.0	2.0	2.0	2.0
	1.3	1.0	2.0	2.0	1.5
	1.0	1.5	3.7	2.0	1.0
	1.5	1.0	2.8	2.0	1.5
	1.0	1.0	2.6	2.0	1.5
	1.0	1.0	1.8	2.0	1.5
	1.0	1.0	1.6	2.0	1.5
	1.0	1.0	1.7	3.0	1.5
	1.3	1.0	3.6	3.0	1.0
	1.8	1.0	2.3	3.0	1.5
	1.0	1.0	1.6	2.0	1.0
	1.0	2.0	2.3	2.0	2.0
	1.0	1.0	2.0	2.0	2.0
	1.0	1.0	2.2	2.0	1.5
	1.0	1.0	2.6	2.0	1.0

PRELIMINARY TEST IIB, 1982

Strain	Mean 10 Tests	Ill. Urbana	Ind. Lafayette	Ames Marshalltown	Ames Ames	Mich. Britton
			SEED SIZE (g/100)			
Century	16.4	19.0	19.5		16.8	17.2
Corsoy 79 (II)	15.0	17.0	17.1		13.8	14.1
Lakota (I)	14.9	16.6	17.9		12.0	14.6
Pella (III)	19.4	21.1	21.1		19.6	16.8
C1603	17.6	19.7	19.5		17.0	16.0
C1605	19.5	20.8	21.9		18.2	19.1
C1607	16.2	18.2	18.2		15.0	15.7
C1608	17.6	18.7	19.2		16.0	17.2
C1609	18.1	19.2	20.3		16.9	17.0
C1612	18.0	20.4	20.4		18.0	16.9
C1613	18.0	19.9	20.1		16.4	18.0
C1615	16.4	17.9	18.7		14.0	15.6
HW8121	20.1	21.3	23.4		18.1	19.3
HW8122	16.1	18.3	17.7		16.6	14.7
HW8123	15.7	18.1	17.5		15.7	14.6
HW8124	15.5	17.2	16.1		15.0	15.4
HW8125	16.3	18.1	16.7		17.0	14.9
L28	14.7	16.0	17.2		13.4	13.7
L80-2316	16.6	17.2	17.6		16.4	15.9
L80-2351	16.7	17.9	17.8		15.0	16.7
LN80-9140	18.2	18.6	19.7		16.4	18.5
LN80-9372	14.8	15.6	16.0		13.8	14.2
LN80-9419	15.3	15.7	14.9		14.4	15.4
LN80-10805	16.7	18.1	17.5		15.9	15.8
M74-312	17.7	18.8	19.1		16.7	18.3
M74-415	15.8	16.9	17.4		14.7	14.8
U76168	14.6	16.1	15.0		14.9	14.3
U76302	17.0	18.7	17.6		16.9	16.1
U76351	17.4	18.3	18.4		16.7	16.5
U76361	16.2	16.7	17.7		15.0	16.1
U76467	15.8	17.4	18.1		14.6	15.6

PRELIMINARY TEST IIB, 1982

Mich.	NE	NJ	Ohio	S.D.	Wis.
Saginaw	Mead	Adelphia	Hoytville	Centerville	Arlington
			SEED SIZE (g/100)		
18.7	21.8	15.0	17.7	20.1	16.5
14.8	17.7	12.0	14.5	15.1	13.7
14.9	21.3	11.0	12.5	14.7	13.2
20.1	21.4	17.0	19.3	20.9	16.5
17.2	22.0	13.0	17.7	18.6	15.4
19.2	21.3	16.0	18.9	21.2	18.0
15.0	19.5	14.0	14.8	16.9	15.1
17.8	20.8	15.0	16.4	19.1	15.4
17.4	22.0	17.0	16.0	18.5	16.9
16.9	19.8	15.0	17.0	19.3	16.1
17.3	21.2	16.0	15.2	18.4	17.6
17.0	20.3	14.0	14.9	16.1	15.9
20.3	23.6	16.0	18.8	22.4	17.8
15.6	19.1	13.0	15.6	16.3	14.1
15.5	18.1	12.0	15.0	16.5	13.7
14.5	19.7	12.0	14.9	16.3	13.6
15.5	19.6	14.0	14.3	17.6	15.0
15.0	17.7	12.0	13.7	14.2	13.7
16.6	20.0	15.0	13.7	17.2	16.1
17.3	21.2	15.0	13.3	16.7	15.8
19.0	22.2	15.0	16.3	18.7	17.3
15.3	17.6	12.0	13.4	16.4	13.2
15.5	18.5	13.0	13.3	17.4	14.9
17.1	19.7	15.0	14.6	16.9	15.9
18.3	20.7	14.0	16.0	19.2	16.0
14.8	20.2	13.0	14.6	16.5	15.2
14.4	17.1	13.0	12.8	15.3	13.4
18.1	19.8	14.0	15.5	18.5	15.1
16.9	20.3	16.0	15.7	18.2	17.2
16.2	19.5	14.0	15.3	15.7	15.4
14.9	19.2	13.0	13.8	17.1	14.4

PRELIMINARY TEST IIB, 1982

Strain	Mean 5 Tests	Ill. Urbana	Ind. Lafayette	Iowa Ames	NE Mead	Ohio Hoytville
			PROTEIN (%)			
Century	40.8	41.0	41.3	40.8	42.0	39.1
Corsoy 79 (II)	39.5	38.7	40.0	39.8	41.0	38.1
Lakota (I)	41.4	41.6	41.8	41.7	42.8	39.1
Pella (III)	37.8	37.6	38.1	38.5	38.5	36.4
C1603	40.3	39.7	40.1	41.5	41.0	39.1
C1605	40.7	41.2	40.7	41.0	42.0	38.8
C1607	39.2	39.7	39.5	40.9	40.2	35.8
C1608	37.9	38.7	37.9	39.1	38.5	35.4
C1609	39.7	39.4	41.3	41.0	40.7	36.0
C1612	40.2	41.2	40.4	42.0	40.9	36.6
C1613	40.3	41.3	41.2	41.7	41.8	35.5
C1615	39.5	39.4	39.3	40.0	40.6	38.2
HW8121	38.5	38.5	38.8	39.0	39.2	37.0
HW8122	39.8	39.3	40.0	40.6	39.8	39.5
HW8123	40.2	40.4	39.8	41.7	39.9	39.4
HW8124	40.7	40.8	40.2	41.5	42.4	38.6
HW8125	40.7	40.9	40.8	41.7	40.9	39.1
L28	39.5	39.5	40.2	40.0	40.1	37.6
L80-2316	38.2	38.0	38.5	39.2	40.0	35.3
L80-2351	36.9	37.0	36.8	38.3	40.6	31.9
LN80-9140	41.1	41.8	41.3	42.5	42.3	37.7
LN80-9372	38.8	39.1	40.4	40.3	38.6	35.5
LN80-9419	38.6	38.7	39.6	39.5	38.2	36.8
LN80-10805	39.9	40.8	39.9	40.6	40.8	37.6
M74-312	40.3	41.2	41.0	41.1	40.8	37.3
M74-415	40.4	41.0	41.1	41.3	41.3	37.1
U76168	38.9	39.1	40.1	40.9	39.8	34.4
U76302	38.4	38.7	38.8	38.8	39.4	36.2
U76351	39.5	40.3	40.3	39.5	40.3	36.9
U76361	40.1	40.1	40.1	40.6	39.5	-
U76467	40.4	40.0	39.3	41.1	41.1	-

PRELIMINARY TEST IIB, 1982

Strain	Mean 5 Tests	Ill. Urbana	Ind. Lafayette	Iowa Ames	NE Mead	Ohio Hoytville
		OIL (%)				
Century	17.7	18.6	17.0	17.2	17.1	18.6
Corsoy 79 (II)	18.9	20.2	18.7	18.2	17.4	19.9
Lakota (I)	18.0	18.7	17.8	17.4	16.8	19.5
Pella (III)	19.2	20.2	19.6	18.4	18.1	19.9
C1603	18.7	19.7	18.4	17.8	18.4	19.2
C1605	17.6	17.7	17.1	17.1	17.0	19.3
C1607	19.0	20.1	18.4	17.3	18.6	20.4
C1608	19.9	20.5	19.8	18.9	19.6	20.8
C1609	18.8	19.3	17.0	17.9	18.9	20.9
C1612	17.9	17.9	17.3	16.7	17.9	19.9
C1613	18.2	18.5	17.8	16.4	17.5	20.6
C1615	18.2	18.8	17.9	17.3	18.1	19.1
HW8121	19.2	20.2	18.6	18.6	18.7	20.0
HW8122	18.2	19.4	17.4	18.0	18.5	17.9
HW8123	17.3	18.3	17.2	16.2	17.3	17.5
HW8124	18.5	18.5	19.1	17.4	18.7	19.0
HW8125	17.5	18.0	17.5	16.0	17.7	18.4
L28	19.0	20.3	18.3	17.6	18.6	20.0
L80-2316	17.9	19.3	17.6	16.8	16.3	19.6
L80-2351	19.8	20.4	19.5	18.6	18.3	22.1
LN80-9140	17.9	17.8	18.1	16.8	17.2	19.8
LN80-9372	19.5	20.5	18.6	17.8	19.7	21.1
LN80-9419	20.0	21.4	19.2	18.3	20.5	20.5
LN80-10805	18.7	19.5	18.6	17.2	18.1	20.1
M74-312	19.2	20.1	18.6	17.4	19.0	21.0
M74-415	18.4	19.2	18.0	17.0	18.0	19.7
U76168	19.3	20.5	18.2	18.0	18.6	21.1
U76302	19.0	19.8	18.6	18.2	18.5	19.7
U76351	18.9	19.3	18.7	18.0	17.9	20.4
U76361	19.0	19.8	19.2	18.1	18.9	-
U76467	18.6	20.0	18.1	17.4	18.7	-

UNIFORM TEST III, 1982

Strain	Parentage	Previous Testing*	Generation Composited
1. Century (II)	Calland x Bonus	3	F_6
2. Cumberland (III)	Corsoy x Williams	6	F_4
3. Fayette	Williams[2] x PI 88.788	1	F_4
4. Hobbit	Williams x Ransom	4	F_5
5. Pella	L66L-139 x Calland	6	F_4
6. Union (IV)	Williams[5] x SL12	4	$9BC_4F_3$
7. Williams 82	Williams[7] x Kingwa	2	$4BC_6F_3$
8. Williams BC_6	Williams[7] x (PI 86972-1 x PI 84637)	-	$3BC_6F_3$
9. Woodworth	Wayne x L57-0034	1978 UT III	F_6
10. Woodworth BC_5	Woodworth[6] x (PI 86972-1 x PI 84636)	-	$3BC_5F_3$
11. A79-236002	Pride B-216 x Cumberland	1	F_4
12. A79-336014	Pride B-216 x Oakland	1	F_4
13. A80-245022	NKS1492 x Weber	PII A	F_4
14. A80-247007	A75-204018 x Weber	PII A	F_4
15. A80-247008	A75-204018 x Asgrow A2440	PII A	F_4
16. A80-344003	A75-332035 x Century	PIII A	F_4
17. A80-345005	NKS1492 x A75-20418	PIII A	F_4
18. A80-346029	A75-204018 x BSR 301	PIII A	F_4
19. HC78-674	L70T-543G x L74D-619	PIII A	F_5
20. HC78-676	L70T-543G x L74D-619	PIII A	F_5
21. HC78-679	L70T-543G x L74D-619	PII B	F_5
22. HW79015	A72-512 x Oakland	1	F_5
23. HW79149	(A72-507[6] x A1) x (A75-507[5] x PI 82.263-2)	1	F_5
24. HW8033	Cumberland x Pella	PIII B	F_5
25. HW8067	A72-512 x Pella	PIII B	F_5
26. K1074	Tracy x Williams	PIII B	F_4
27. U75633	(Beeson x L15) x Amsoy 71	PII B	F_5

*Number of years in test or name of 1981 test.

UNIFORM TEST III, 1982

Descriptive and Other Data

Strain	Descriptive		Code	Chlorosis Scores Ames	Chlorosis Scores Lamberton	Emergence Score Ames	Shattering Lubbock 2 Weeks	Shattering Manhattan 2 Weeks
Century (II)	PTBr	IYB1	I	2.8	1	5	3.0	2
Cumberland (III)	PGBr	SYIb	I	4.0	1	5	2.0	1
Fayette	WTT	SYB1	I	2.8	2	3	2.7	1
Hobbit	WTT	IYB1	D	3.2	2	1	1.5	1
Pella	PTT	DYB1	I	4.0	2	2	1.5	2
Union (IV)	WTT	SYB1	I	4.5	2	5	1.7	2
Williams 82	WTT	SYB1	I	4.0	2	5	1.7	1
Williams BC_6	WTT	SYB1	I	3.2	2	1	2.7	2
Woodworth	WTT	DYB1	I	3.8	2	5	2.3	2
Woodworth BC_5	WTT	DYB1	I	3.2	2	1	2.0	2
A79-236002	WTBr	DYY	I	4.2	2	1	2.0	2
A79-336014	PTBr	SYB1	I	3.5	2	5	2.2	2
A80-245022	WTBr	DYBr	I	4.5	2	3	5.0	3
A80-247007	WTBr	DYBr	I	1.8	1	4	4.2	2
A80-247008	WGBr	DYBf	I	2.8	2	5	3.0	1
A80-344003	WTBr	DYBr	I	3.0	2	5	2.2	1
A80-345005	WTBr	DYBr	I	3.5	2	5	4.2	1
A80-346029	WTBr	DYBr	I	4.0	1	5	2.7	2
HC78-674	WTBr	SYBr	D	3.0	1	5	2.0	1
HC78-676	PTBr	SYBr	D	2.8	1	2	1.7	1
HC78-679	PTT	SYB1	D	3.2	1	1	1.5	1
HW79015	PGBr	DYIb	I	3.5	1	5	2.5	3
HW79149	WGBr	SYY+Bf	I	3.8	4	1	3.0	1
HW8033	PGBr	DYIb	I	3.5	1	5	2.7	3
HW8067	WGBr	SYBf	I	4.0	1	5	3.0	2
K1074	WTT	SYB1	D	3.2	1	1	3.0	2
U75633	WTT	SYBr	I	3.2	1	5	2.5	2

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Disease Data

Strain	PR_1		PR_4	PR Tolerance		FE_2	BB	BP	BTS
	Lafayette	Ames	Ames	Hoytville	Vickery	Lafayette	Eldorado	Girard	Ames
	a	a	a	n	n	a	n	n	a
	-----reaction----			score	score	score	score	score	score
Century (II)	R	R	S	3.0	3.3	5	1.0	1.7	2
Cumberland (III)	S	S	S	2.7	3.4	4	1.0	1.0	3
Fayette	S	S	S	1.3	2.6	4	1.0	1.0	4
Hobbit	S	S	S	2.3	3.2	3	1.0	1.0	2
Pella	R	R	R	2.7	3.0	2	1.0	2.5	4
Union (IV)	R	R	S	1.7	3.2	5	1.0	1.0	4
Williams 82	R	R	R	1.0	2.5	4	1.0	1.0	3
Williams BC_6	R	R	R	1.7	2.6	5	1.0	1.0	3
Woodworth	S	S	S	2.7	3.1	4	1.0	1.0	3
Woodworth BC_5	R	R	R	2.0	2.5	4	1.0	1.0	3
A79-236002	R	R	S	2.7	3.0	1	1.0	1.0	3
A79-336014	S	S	S	3.0	3.5	3	1.0	1.0	3
A80-245022	S	S	S	3.0	3.4	4	1.0	1.0	3
A80-247007	S	S	S	4.0	3.4	2	1.0	1.9	3
A80-247008	S	S	S	2.7	3.1	5	1.0	2.0	3
A80-344003	R	R	S	2.0	3.0	2	1.0	1.4	3
A80-345005	S	S	S	2.7	3.4	3	1.0	1.3	4
A80-346029	S	S	S	3.0	3.4	2	1.0	2.0	3
HC78-674	R	R	S	3.0	4.0	1	3.5	1.0	3
HC78-676	R	R	S	2.7	3.8	1	3.0	1.3	3
HC78-679	S	S	S	4.0	3.4	4	1.0	1.0	3
HW79015	S	S	S	2.7	3.1	4	1.0	1.0	2
HW79149	R	R	R	1.3	2.8	4	1.0	2.5	2
HW8033	S	S	R	3.0	3.0	2	1.0	2.3	3
HW8067	S	S	S	3.0	3.5	2	1.0	1.0	2
K1074	R	R	R	2.3	2.8	4	3.0	1.0	3
U75633	S	S	S	2.3	4.0	4	1.0	4.0	3

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Disease Data

Strain	BSR				PS	PSB	SMV	Germ
	Ames		Lafayette	Urbana				
	Plant	Stem	Stem	Foliar	Lafayette			
	n %	n %	n %	n score	a %	n %	a score	%
Century (II)	100	77.1	20	4	50	2	5E	92
Cumberland (III)	S	S	60	4	21	3	5E	95
Fayette	S	S	60	1	28	7	5M	96
Hobbit	100	74.6	60	1	8	3	1	94
Pella	100	89.1	80	4	43	1	5E	91
Union (IV)	S	S	80	3	31	6	5M	92
Williams 82	S	S	60	3	31	4	5E	94
Williams BC_6	S	S	80	2	24	0	5M	95
Woodworth	S	S	40	4	45	6	5E	92
Woodworth BC_5	S	S	80	4	38	4	5E	94
A79-236002	100	72.1	80	4	24	2	5E	93
A79-336014	100	61.3	20	4	8	4	5E	97
A80-245022	100	56.1	40	4	16	6	5S	92
A80-247007	100	67.0	80	4	8	5	5E	93
A80-247008	100	66.8	20	4	23	9	5E	88
A80-344003	100	46.9	60	1	41	6	5E	88
A80-345005	100	91.4	40	4	3	3	5S	94
A80-346029	100	65.8	60	1	32	14	5S	86
HC78-674	100	92.0	60	1	61	1	1	94
HC78-676	100	94.3	20	1	61	1	2E	95
HC78-679	100	90.8	80	4	24	3	3E	96
HW79015	90	43.0	20	5	52	3	3E	89
HW79149	100	77.7	80	4	58	1	5E	94
HW8033	100	62.6	40	4	12	1	3E	96
HW8067	100	92.1	40	5	46	3	3E	96
K107	100	98.5	40	1	28	0	4E	97
U75633	100	75.0	40	4	65	6	5E	89

UNIFORM TEST III, 1982

Regional Summary

Strain	Yield	Rank	Maturity	Lodging	Plant Height	Seed Quality	Seed Size	Composition	
								Protein	Oil
No. of Tests	25	25	24	25	25	24	24	5	5
	bu/a	no.	date	score	in.	score	g/100	%	%
Century (II)	45.1	25	-6	1.6	33	2.1	17.6	42.3	17.7
Cumberland (III)	48.6	8	9-22*	2.0	35	1.7	17.5	40.0	19.3
Fayette	45.6	24	+3	1.9	39	1.6	15.6	40.8	18.0
Hobbit	47.6	11	-1	1.4	23	1.6	15.2	38.4	19.8
Pella	49.0	6	-3	1.6	35	1.8	18.4	38.7	19.0
Union (IV)	45.8	22	+6	2.2	42	1.6	18.0	41.2	17.9
Williams 82	47.6	11	+3	1.9	37	1.5	16.3	40.8	18.4
Williams BC_6	47.3	14	+3	2.0	37	1.5	17.7	40.8	18.3
Woodworth	46.7	19	-1	1.9	37	1.6	14.7	39.8	18.4
Woodworth BC_5	47.0	17	-1	2.1	36	1.4	14.4	40.3	18.1
A79-236002	47.6	11	-3	1.9	35	2.1	16.5	39.0	17.9
A79-336014	50.3	1	-1	1.6	33	1.6	18.4	40.7	18.0
A80-245022	47.3	14	-4	2.3	36	1.7	13.0	39.8	18.4
A80-247007	47.2	16	-4	2.8	35	1.7	14.3	38.7	19.2
A80-247008	46.5	20	-3	2.5	39	1.6	13.8	38.2	19.0
A80-344003	48.8	7	+1	1.5	34	1.8	15.8	41.6	17.2
A80-345005	49.4	5	0	2.1	35	1.5	14.0	39.2	18.9
A80-346029	49.8	3	+2	1.7	32	1.7	15.6	39.6	18.8
HC78-674	45.8	22	0	1.5	23	1.9	15.9	41.3	17.7
HC78-676	48.5	9	+1	1.7	25	1.9	15.5	40.9	17.6
HC78-679	42.6	27	-2	1.2	21	1.9	14.8	40.2	18.3
HW79015	48.5	9	-5	1.6	35	1.8	16.5	39.7	18.1
HW79149	46.9	18	+2	2.7	37	2.2	16.7	40.8	17.6
HW8033	49.9	2	-4	1.6	34	1.9	18.7	39.6	18.9
HW8067	49.8	3	0	2.0	31	1.7	15.2	40.5	19.1
K1074	44.1	26	+1	1.8	26	1.3	15.7	43.0	16.0
U75633	46.0	21	-4	2.4	40	1.9	17.6	40.8	18.6

*123 days after planting

UNIFORM TEST III, 1982

1981-1982, 2-year mean

Strain	Yield	Rank	Maturity	Lodging	Plant Height	Seed Quality	Seed Size	Composition Protein	Oil
No. of Tests	45	45	41	44	45	43	43	9	9
	bu/a	no.	date	score	in.	score	g/100	%	%
Century (II)	44.5	10	-6.0	1.6	33	2.0	17.8	42.2	18.5
Cumberland (III)	47.7	4	9-23.7*	1.9	35	1.8	17.8	40.1	19.7
Hobbit	46.6	8	-0.6	1.4	23	1.6	15.7	39.2	20.0
Pella	48.3	2	-3.0	1.6	35	1.9	18.8	38.7	19.5
Union (IV)	45.6	9	+5.6	2.3	42	1.6	18.5	41.6	18.4
Williams 82	47.6	5	+3.4	1.9	37	1.6	16.8	41.2	18.8
A79-236002	47.6	5	-3.8	1.9	35	2.1	16.8	39.5	18.5
A79-336014	49.4	1	-0.6	1.6	34	1.7	18.8	40.8	18.5
HW79015	47.9	3	-4.6	1.6	35	1.8	16.8	40.4	18.9
HW79149	47.4	7	+2.4	2.6	37	2.2	16.8	41.4	18.4

*124 days after planting

1980-1983, 3-year mean

No. of Tests	68	68	61	66	68	64	64	14	14
Century (II)	43.5	6	-6.0	1.6	33	2.2	17.7	42.4	19.3
Cumberland (III)	47.0	1	9-23.4*	1.9	36	1.9	17.7	40.5	20.6
Hobbit	44.9	4	-0.1	1.3	22	1.6	15.7	39.6	20.9
Pella	46.4	2	-2.7	1.5	36	2.0	18.6	39.3	20.4
Union (IV)	44.0	5	+5.4	2.3	43	1.7	18.2	42.2	19.1
Williams 82	46.1	3	+2.9	1.8	38	1.7	16.7	41.4	19.7

*125 days after planting

The strain A76-336014 has been the highest yielding entry in the test each of the past two years. This strain has excellent lodging resistance but is susceptible to phytophthora root rot and to brown stem rot. The backcross derivatives of Williams and Woodworth are essentially the same in performance as the original varieties. The strain HC78-676 was the highest yielding determinate strain in the test, was also resistant to PR_1, but was more susceptible to PS than was Hobbit.

UNIFORM TEST III, 1982

Strain	Mean 25 Tests	Illinois						Ind.
		Urbana	Girard	Belle-ville	Eldo-rado	Pontiac	Browns-town	Lafay-ette
		YIELD (bu/a)						
Century (II)	45.1	54.5	47.7	46.7	43.3	47.5	37.8	61.0
Cumberland (III)	48.6	54.4	51.9	51.8	52.6	48.5	47.5	66.7
Fayette	45.6	54.2	46.1	46.8	46.6	45.7	40.7	66.8
Hobbit	47.6	61.9	50.5	45.9	47.6	46.1	32.5	66.9
Pella	49.0	59.6	51.8	51.3	42.9	47.2	44.3	63.8
Union (IV)	45.8	56.4	49.0	45.8	47.6	44.2	50.9	75.4
Williams 82	47.6	58.2	48.9	56.4	46.7	47.4	47.3	72.1
Williams BC_6	47.3	57.5	50.8	51.7	46.5	45.5	45.7	68.7
Woodworth	46.7	57.3	49.9	48.7	46.3	44.9	41.6	67.4
Woodworth BC_5	47.0	56.9	49.3	50.2	50.3	49.7	46.0	71.4
A79-236002	47.6	58.3	51.8	38.9	43.5	48.2	44.2	67.5
A79-336014	50.3	61.7	51.7	49.8	50.6	54.1	51.1	72.5
A80-245022	47.3	62.5	52.1	40.3	47.7	45.8	43.5	66.8
A80-247007	47.2	59.1	52.3	47.2	50.5	50.1	42.1	67.5
A80-247008	46.5	60.1	49.9	46.6	40.2	46.6	40.5	69.1
A80-344003	48.8	60.7	54.6	48.5	47.3	48.0	52.3	67.9
A80-345005	49.4	58.6	51.3	54.1	46.7	48.3	46.9	73.7
A80-346029	49.8	61.0	58.4	53.7	53.0	49.7	45.7	65.7
HC78-674	45.8	68.2	49.4	37.0	46.1	48.9	43.5	61.7
HC78-676	48.5	68.0	53.7	50.4	47.2	49.7	48.0	70.0
HC78-679	42.6	59.1	37.3	45.9	34.5	46.4	30.1	58.4
HW79015	48.5	60.4	54.2	50.1	52.4	46.4	48.2	67.7
HW79149	46.9	57.4	50.1	49.5	44.3	46.1	47.1	68.9
HW8033	49.9	59.6	52.7	41.5	49.8	50.4	47.4	70.1
HW8067	49.8	55.4	57.8	47.8	52.8	53.7	50.6	68.1
K1074	44.1	59.6	45.9	49.5	41.9	45.9	39.0	65.7
U75633	46.0	62.1	48.8	46.6	43.6	49.0	38.3	67.9
C.V. (%)		4.6	5.4	8.5	6.3	5.7	7.6	5.2
L.S.D. (5%)		4.5	4.7	8.3	4.8	4.4	5.4	5.7
Row sp. (in.)		30	30	30	30	30	30	24
Rows/plot		4	4	4	4	4	4	4
Reps		3	3	2	3	3	3	3

UNIFORM TEST III, 1982

Indiana			Iowa		Kansas			Ky.
Bluff-ton	Green-field	Sulli-van	Ottum-wa	Stuart	Man-hattan	Topeka	Pow-hattan	Lexing-ton
				YIELD (bu/a)				
49.1	44.1	41.9	55.1	49.5	49.4	34.4	32.3	41.7
46.6	54.4	44.7	52.0	47.6	50.5	55.6	39.0	39.5
49.1	44.1	47.2	50.3	41.1	46.5	44.8	37.0	44.0
50.4	50.4	41.0	57.7	51.4	57.8	27.7	39.7	41.4
51.4	52.1	46.5	53.9	51.4	48.6	51.9	36.9	42.7
48.7	57.4	43.1	47.7	42.2	47.8	51.1	35.1	40.8
56.4	48.5	47.7	47.6	42.7	49.9	53.1	39.5	40.6
48.6	48.5	45.2	53.0	45.2	52.8	52.2	37.1	37.3
51.6	54.0	38.1	47.7	46.5	49.2	52.1	36.4	41.3
51.9	48.8	34.2	54.4	45.0	50.5	54.4	38.5	44.3
50.3	49.3	41.5	54.0	49.8	56.3	54.9	35.8	42.1
56.4	59.5	49.3	51.3	47.2	50.0	49.9	39.0	45.0
51.0	53.8	39.5	48.3	49.3	58.3	52.3	36.6	46.3
46.6	43.2	40.8	55.2	52.2	55.4	47.0	35.6	46.4
51.2	48.4	46.1	51.3	47.0	51.7	48.7	34.2	44.7
53.2	53.1	50.6	50.5	46.6	49.8	53.0	37.8	38.4
53.6	50.5	49.4	52.3	50.2	59.2	52.6	36.0	46.8
50.0	50.9	52.5	56.9	50.0	52.6	51.2	37.6	45.5
44.8	45.6	37.4	48.5	50.8	57.3	26.8	36.0	39.3
55.4	54.3	34.2	37.1	50.6	59.0	33.5	38.5	44.8
46.2	44.9	36.4	48.2	50.5	58.0	18.6	37.2	37.6
48.6	45.4	51.9	50.9	48.3	55.3	55.0	37.7	48.1
55.4	52.0	41.2	52.7	47.7	52.8	47.4	38.1	38.3
49.4	50.3	51.0	56.7	53.5	53.5	51.8	39.3	45.6
53.7	52.5	49.2	46.9	49.8	58.2	58.8	41.6	36.1
51.4	53.3	39.0	46.7	41.5	49.7	27.3	33.8	41.0
37.2	51.4	40.5	46.3	48.8	45.6	44.6	33.0	44.0
8.6	11.9	18.0	10.4	6.9	4.4	10.6	6.5	15.04
7.0	9.8	12.9	7.5	4.7	3.8	8.1	3.9	10.30
30	30	28	27	27	30	30	30	30
3	3	3	4	4	4	4	4	4
3	3	3	4	4	3	3	3	3

UNIFORM TEST III, 1982

Strain	Md. Clarksville	NE Mead	NJ Adelphia	Ohio Ripley	Ohio Charleston	Ohio Hoytville	Ohio Wooster	Pa. Landisville	S.D. Elk Point
				YIELD (bu/a)					
Century (II)	37.7	55.6	37.9	48.5	59.6	45.5	35.2	25.8	44.5
Cumberland (III)	42.6	55.8	38.5	58.8	62.5	47.5	37.0	27.1	41.2
Fayette	43.0	49.6	37.9	52.2	59.8	47.7	35.4	23.8	40.2
Hobbit	43.1	59.8	36.4	60.9	60.5	51.6	36.5	29.7	42.5
Pella	47.3	57.5	40.6	56.1	61.6	49.6	37.9	32.7	44.2
Union (IV)	34.1	49.6	33.9	44.1	58.2	43.1	32.8	26.9	40.0
Williams 82	35.4	55.6	33.8	47.3	55.7	50.8	33.3	28.9	45.5
Williams BC_6	39.1	52.8	36.5	46.7	61.8	46.7	35.4	30.7	45.8
Woodworth	36.7	53.3	34.5	56.0	62.0	47.7	36.7	29.5	38.8
Woodworth BC_5	33.3	50.2	34.8	49.7	61.6	49.4	36.5	28.5	35.4
A79-236002	39.2	56.8	37.1	46.6	61.3	51.6	35.8	29.6	44.6
A79-336014	42.2	56.7	38.5	55.9	65.5	49.6	38.1	27.9	44.9
A80-245022	41.3	57.9	38.3	45.6	58.9	42.3	38.4	25.2	41.7
A80-247007	39.8	52.9	36.3	52.2	57.4	41.7	37.6	29.8	42.3
A80-247008	40.3	55.8	34.7	48.5	55.8	45.1	39.4	25.3	40.5
A80-344003	42.7	54.7	39.0	51.0	60.4	51.4	41.9	24.4	41.0
A80-345005	41.1	59.4	39.0	45.3	62.5	49.9	40.3	25.7	42.2
A80-346029	41.5	56.8	36.9	51.0	64.5	48.6	43.8	23.9	44.3
HC78-674	34.5	59.1	35.6	51.6	63.1	46.3	38.9	31.2	43.5
HC78-676	40.2	59.0	37.4	51.0	63.7	49.7	36.2	34.4	45.3
HC78-679	37.2	57.8	33.1	54.3	48.7	39.1	36.2	28.1	41.6
HW79015	38.2	59.3	36.5	48.1	56.4	47.1	38.5	28.6	39.1
HW79149	35.8	51.2	34.3	45.9	60.9	50.7	38.9	28.6	36.0
HW8033	41.0	59.5	38.2	60.2	60.2	51.9	42.6	25.8	46.1
HW8067	41.5	58.2	39.6	54.6	61.3	47.6	39.1	24.7	45.1
K1074	37.8	45.2	32.5	50.3	53.4	47.2	34.4	30.1	41.4
U75633	40.2	55.8	39.4	51.6	59.7	47.6	38.2	30.2	39.0
C.V. (%)	12.8	6.6	6.2	11.8	5.3	8.6	9.2	14.4	10.4
L.S.D. (5%)	N.S.	5.9	4.5	9.9	5.2	6.7	5.7	N.S.	N.S.
Row sp. (in.)	30	30	30	30	30	20	30	24	30
Rows/plot	4	4	3	4	4	5	4	4	4
Reps	3	3	4	3	3	3	3	3	3

UNIFORM TEST III, 1982

Strain	Mean 25 Tests	Illinois						Ind.
		Urbana	Girard	Belle-ville	Eldo-rado	Pontiac	Browns-town	Lafay-ette
		YIELD RANK						
Century (II)	25	25	24	18	23	14	25	25
Cumberland (III)	8	25	9	4	3	10	7	21
Fayette	24	27	25	17	16	24	21	20
Hobbit	11	5	15	20	10	20	26	18
Pella	6	11	10	6	24	16	15	23
Union (IV)	22	23	21	22	10	27	3	1
Williams 82	11	18	22	1	14	15	9	4
Williams BC_6	14	19	14	5	17	25	13	10
Woodworth	19	21	17	13	18	26	20	17
Woodworth BC_5	17	22	20	8	7	5	12	5
A79-236002	11	17	10	25	22	12	16	16
A79-336014	1	6	12	10	5	2	2	3
A80-245022	14	3	8	24	9	23	17	19
A80-247007	16	15	7	16	6	4	19	15
A80-247008	20	10	17	19	26	17	22	8
A80-344003	7	8	3	14	12	13	1	13
A80-345005	5	16	13	2	14	11	11	2
A80-346029	3	7	1	3	1	5	13	22
HC78-674	22	1	19	26	19	9	17	24
HC78-676	9	2	5	7	13	5	6	7
HC78-679	27	14	27	20	27	18	27	26
HW79015	9	9	4	9	4	18	5	14
HW79149	18	20	16	11	20	20	10	9
HW8033	2	13	6	23	8	3	8	6
HW8067	3	24	2	15	2	1	4	11
K1074	26	11	26	11	25	22	23	22
U75633	21	4	23	19	21	8	24	12

UNIFORM TEST III, 1982

Strain	Indiana			Iowa		Kansas			Ky.
	Bluff-ton	Green-field	Sulli-van	Ottum-wa	Stuart	Man hattan	Topeka	Pow-hattan	Lexing-ton
				YIELD RANK					
Century (II)	18	26	15	5	12	22	22	27	15
Cumberland (III)	23	3	13	12	17	16	2	5	21
Fayette	17	25	9	17	27	26	20	15	11
Hobbit	13	15	18	1	3	6	24	2	16
Pella	10	10	10	8	3	24	12	16	13
Union (IV)	19	2	14	21	25	25	15	23	19
Williams 82	2	20	8	23	24	19	6	3	20
Williams BC_6	21	19	12	9	22	12	10	14	26
Woodworth	8	5	23	21	21	23	11	18	17
Woodworth BC_5	7	18	27	6	23	16	5	7	10
A79-236002	14	17	16	7	10	8	4	21	14
A79-336014	1	1	6	13	18	18	16	6	7
A80-245022	12	6	21	19	13	3	9	17	4
A80-247007	23	27	19	4	2	9	19	22	3
A80-247008	11	21	11	13	19	15	17	24	9
A80-344003	6	8	4	16	20	20	7	10	23
A80-345005	5	14	5	11	8	1	8	19	2
A80-346029	15	13	1	2	9	14	14	12	6
HC78-674	26	22	21	18	5	7	26	19	22
HC78-676	22	4	26	27	6	2	23	8	8
HC78-679	25	24	25	20	7	5	27	13	25
HW79015	20	23	2	15	15	10	3	11	1
HC79149	3	11	17	10	16	12	18	9	24
HW8033	16	16	3	3	1	11	13	4	5
HW8067	4	9	7	24	10	4	1	1	27
K1074	9	7	22	25	26	21	25	25	18
U75633	27	12	20	26	14	27	21	26	12

UNIFORM TEST III, 1982

Md.	NE	NJ	Ohio				Pa.	S.D.
Clarks-ville	Mead	Adel-phia	Ripley	Charles-ton	Hoyt-ville	Wooster	Landis-ville	Elk Point
				YIELD RANK				
20	17	11	18	19	22	24	19	8
5	15	7	3	5	17	15	17	18
3	25	10	9	17	13	22	27	21
2	1	17	1	14	3	17	8	12
1	10	1	4	9	9	13	2	10
26	26	24	27	21	24	27	18	22
24	18	25	21	25	5	26	11	3
17	22	16	22	8	20	22	4	2
22	20	22	5	7	13	16	10	25
27	24	20	17	9	11	17	14	27
16	11	13	23	11	2	21	9	7
6	13	6	6	1	9	12	16	6
9	8	8	25	20	25	10	23	15
15	21	18	9	22	26	14	7	13
12	16	21	18	24	23	5	22	20
4	19	5	13	15	4	3	25	19
10	3	4	26	5	7	4	21	14
8	12	14	13	2	12	1	26	9
25	5	19	11	4	21	7	3	11
14	6	12	13	3	8	19	1	4
21	9	26	8	27	27	19	15	16
18	4	15	20	23	19	9	12	23
23	23	23	24	13	6	7	12	26
11	2	9	2	16	1	2	19	1
8	7	2	7	11	15	6	24	5
19	27	27	16	26	18	25	6	17
14	14	3	11	18	15	11	5	24

UNIFORM TEST III, 1982

Strain	Mean 24 Tests	Illinois						Ind.
		Urbana	Girard	Belle-ville	Eldo-rado	Pontiac	Browns-town	Lafay-ette
		MATURITY (date)						
Century (II)	-6	-8	-8	-8	-8	-7	-9	-7
Cumberland (III)	9-22	9-22	9-14	9-14	9-1	9-29	9-9	9-17
Fayette	+3	+4	+3	+4	+5	+5	+3	+6
Hobbitt	-1	+1	-3	0	-3	-1	-4	0
Pella	-3	-5	-5	-6	-6	-3	-3	-3
Union (IV)	+6	+9	+6	+7	+8	+6	+6	+7
Williams 82	+3	+4	+3	+4	+5	+3	+4	+3
Williams BC_6	+3	+3	+3	+3	+4	+4	+3	+2
Woodworth	-1	-1	+1	0	+1	-1	-2	-1
Woodworth BC_5	-1	-1	+1	-1	+1	0	+1	-1
A79-236002	-3	-6	-6	-5	-5	-4	-3	-5
A79-336014	-1	0	-1	-1	0	-2	-1	-1
A80-245022	-4	-3	-6	-5	-6	-3	-2	-5
A80-247007	-4	-3	-4	-4	-4	-3	-4	-6
A80-247008	-3	-1	-5	-2	-5	+1	-2	-3
A80-344003	+1	+4	+2	+3	+2	+3	+2	0
A80-345005	0	+2	+2	+2	+2	-1	+1	-1
A80-346029	+2	+5	+3	+1	+4	+4	+2	+1
HC78-674	0	+4	+2	0	0	-1	0	0
HC78-676	+1	+3	+1	+1	+1	+1	+1	+1
HC78-679	-2	-2	+1	0	-2	-3	-1	-1
HW79015	-5	-8	-7	-4	-7	-6	-6	-5
HW79149	+2	+4	+1	-1	+4	+3	+1	+2
HW8033	-4	-6	-6	-2	-5	-5	-3	-3
HW8067	0	-1	0	0	0	+1	-1	-1
K1074	+1	+3	+2	+2	+3	+3	+1	+1
U75633	-4	-6	-8	-3	-7	-3	-6	-3
Date planted	5-22	5-16	5-10	5-20	5-14	6-8	5-11	5-11
Days to mature	123	129	127	117	110	113	121	129

UNIFORM TEST III, 1982

Indiana			Iowa		Kansas			Ky.
Bluff-ton	Green-field	Sulli-van	Ottum-wa	Stuart	Man-hattan	Topeka	Pow-hattan	Lexing-ton
				MATURITY (date)				
-6	-10	-1		-6	-10	-4		-7
9-23	9-18	9-14		10-5	9-30	9-30		9-12
-1	+3	+4		+2	+2	+4		+8
-2	-3	+1		-2	+2	+2		-3
-4	-5	0		-2	-2	-3		-3
+1	+6	+7		+5	+5	+8		+9
0	+3	+7		+4	+5	+8		+7
-2	+2	+4		+4	+4	+6		+8
-2	-2	0		-3	+1	0		0
-3	-2	+2		-1	0	-3		0
-5	-5	0		-5	-3	-2		0
-1	-2	+1		0	0	+2		0
-6	-6	0		-3	-1	-1		-3
-7	-8	0		-5	-4	+1		-3
-4	-6	0		-5	0	+2		-3
-1	0	+2		+1	+3	+4		0
-3	-1	+3		+2	+2	+5		+1
-1	-1	+5		+4	+4	+2		+1
-2	-4	+1		0	+3	+4		0
-1	0	+1		+3	+5	+4		0
-2	-7	+1		-1	+3	+1		0
-5	-11	0		-5	-2	-4		-7
0	-1	+1		+4	+2	+2		0
-5	-7	0		-5	-3	-5		-3
-1	-2	0		+2	+1	+5		+1
-1	+6	+2		+3	+2	+1		+7
-4	-8	-1		-5	-6	-4		-3
5-15	5-13	5-13	5-20	6-2	6-11	5-19	6-21	5-14
131	128	124		125	111	134		121

UNIFORM TEST III, 1982

Strain	Md. Clarksville	NE Mead	NJ Adelphia	Ohio Ripley	Ohio Charleston	Ohio Hoytville	Ohio Wooster	Pa. Landisville	S.D. Elk Point
				MATURITY (date)					
Century (II)	-3	-5	-2	-6	-7	-6	-5	-6	-7
Cumberland (III)	10-9	10-5	9-26	9-10	9-20	9-17	9-20	10-1	10-13
Fayette	+2	+3	+2	0	+2	+3	+4	+3	+2
Hobbit	-5	+1	-1	-2	-2	-1	-1	-2	-2
Pella	-2	-1	-2	-3	-7	-4	-2	-6	-1
Union (IV)	+8	+7	+3	+1	+8	+4	+5	+7	+5
Williams 82	+1	+3	+2	0	+2	+3	+3	+3	+2
Williams BC_6	0	+3	+2	+1	+2	+2	+2	+3	+1
Woodworth	-5	-1	-1	-2	0	-3	-1	-2	+2
Woodworth BC_5	-2	-1	-1	-1	0	-2	-1	0	+1
A79-236002	-1	-1	-3	-3	-6	-5	-4	0	-4
A79-336014	+1	0	0	0	-2	-2	-2	-2	-1
A80-245022	-5	-4	-2	-5	-6	-7	-5	-6	-6
A80-247007	-5	-4	-3	-6	-6	-6	-6	-6	-6
A80-247008	-2	-1	-1	-4	-4	-5	-4	-2	-6
A80-344003	0	0	0	-1	+1	-1	+1	0	0
A80-345005	+1	0	0	-2	-1	-2	-2	-2	0
A80-346029	0	0	+2	-1	-1	0	+2	0	-1
HC78-674	-5	0	-2	-2	-2	-3	-2	0	-1
HC78-676	-3	0	0	-2	0	-4	-2	0	-1
HC78-679	-5	0	-2	-2	-6	-5	-3	-6	-1
HW79015	-4	-4	-2	-5	-6	-8	-5	-2	-5
HW79149	+4	+3	+1	-2	+4	+1	+1	+3	0
HW8033	-2	-3	-2	-4	-4	-6	-4	-2	-2
HW8067	-2	-1	0	-3	-3	-1	-1	0	-1
K1074	-5	+2	-1	+2	+3	0	+1	0	0
U75633	-5	-1	-2	-2	-3	-6	-4	-6	-3
Date planted	6-21	6-5	6-7	5-5	5-4	5-4	5-10	6-9	6-7
Days to mature	110	122	111	128	139	136	133	114	128

UNIFORM TEST III, 1982

Strain	Mean 25 Tests	Illinois						Ind.
		Urbana	Girard	Belle-ville	Eldo-rado	Pontiac	Browns-town	Lafay-ette
		LODGING (score)						
Century (II)	1.6	2.3	2.3	1.0	1.5	1.3	2.0	1.5
Cumberland (III)	2.0	3.0	1.9	1.2	1.4	1.8	2.7	3.0
Fayette	1.9	1.8	3.1	1.4	1.6	1.7	2.3	2.0
Hobbit	1.4	1.6	1.0	1.0	1.1	1.0	1.5	1.2
Pella	1.6	1.7	1.9	1.2	1.6	1.5	2.0	2.0
Union (IV)	2.2	2.7	3.0	1.6	1.8	1.7	2.8	2.3
Williams 82	1.9	2.0	2.9	1.3	1.4	1.7	2.3	2.2
Williams BC_6	2.0	2.3	3.5	1.2	1.6	2.0	3.0	2.3
Woodworth	1.9	2.2	2.6	1.4	1.7	1.5	2.3	2.3
Woodworth BC_5	2.1	2.3	2.9	1.3	1.6	1.8	2.7	2.2
A79-236002	1.9	2.1	2.3	1.1	2.4	1.7	2.8	1.8
A79-336014	1.6	1.8	2.0	1.0	1.1	1.5	2.0	1.8
A80-245022	2.3	3.2	3.5	1.2	3.0	2.2	3.5	2.3
A80-247007	2.8	4.0	4.7	1.8	3.2	3.5	3.2	3.7
A80-247008	2.5	3.7	2.9	1.7	3.2	3.0	3.2	2.5
A80-344003	1.5	1.4	1.8	1.0	1.2	1.5	2.3	2.0
A80-345005	2.1	2.4	2.6	1.8	1.9	1.8	3.0	2.5
A80-346029	1.7	3.2	1.6	1.1	1.3	1.5	2.0	2.7
HC78-674	1.5	1.6	1.0	1.1	1.2	1.5	1.7	1.5
HC78-676	1.7	1.8	1.0	1.0	1.2	1.7	1.7	1.5
HC78-679	1.2	1.1	1.0	1.0	1.0	1.0	1.5	1.0
HW79015	1.6	1.8	1.8	1.0	1.4	1.3	2.2	1.3
HW79149	2.7	2.8	4.5	2.3	2.9	2.5	3.3	4.0
HW8033	1.6	1.9	1.3	1.0	1.4	1.2	2.0	2.3
HW8067	2.0	3.8	2.3	1.1	1.5	1.8	2.8	2.8
K1074	1.8	2.2	1.1	1.2	1.3	1.8	1.8	1.5
U75633	2.4	2.8	3.3	1.2	2.4	2.0	2.8	2.3

UNIFORM TEST III, 1982

Strain	Indiana			Iowa		Kansas			Ky.
	Bluff-ton	Green-field	Sulli-van	Ottum-wa	Stuart	Man-hattan	Topeka	Pow-hattan	Lexing-ton
				LODGING (score)					
Century (II)	1.2	1.0	1.5	2.0	2.2	2.2	1.3	1.3	1.0
Cumberland (III)	1.2	1.2	2.2	3.9	3.2	2.8	1.7	1.3	1.3
Fayette	1.5	1.0	2.0	2.8	3.0	2.8	2.0	1.7	1.5
Hobbitt	1.0	1.0	1.0	1.7	1.5	2.2	1.0	1.7	1.0
Pella	1.0	1.0	2.0	2.4	2.3	2.0	2.0	1.3	1.0
Union (IV)	1.5	1.7	2.8	3.3	3.9	3.2	2.0	1.8	1.7
Williams 82	1.3	1.0	2.5	3.3	3.1	2.7	1.7	2.1	1.3
Williams BC_6	1.5	1.2	2.3	3.3	3.4	2.8	1.7	1.7	1.5
Woodworth	1.0	1.5	1.8	3.3	3.1	2.8	1.7	1.7	1.3
Woodworth BC_5	1.5	1.0	2.3	3.8	3.3	3.0	2.0	1.8	1.5
A79-236002	1.0	1.2	2.7	2.4	3.7	2.5	1.7	1.5	1.3
A79-336014	1.0	1.0	1.5	3.2	2.4	1.8	1.3	1.0	1.0
A80-245022	1.0	1.2	2.2	3.6	3.9	3.7	2.8	1.7	1.5
A80-247007	1.5	1.3	3.2	4.0	4.1	4.0	3.3	1.8	2.0
A80-247008	1.2	1.3	2.8	3.3	4.2	4.0	2.3	2.3	1.6
A80-344003	1.0	1.0	1.5	1.7	2.4	2.0	1.0	1.0	1.0
A80-345005	1.0	1.2	2.3	3.9	3.5	2.7	1.7	1.2	1.0
A80-346029	1.0	1.0	2.0	2.8	2.8	2.7	1.3	1.2	1.0
HC78-674	1.0	1.0	1.0	2.9	2.4	2.7	1.0	2.0	1.2
HC78-676	1.5	1.0	1.0	3.8	2.2	3.7	1.0	1.7	1.5
HC78-679	1.0	1.0	1.0	1.4	1.7	2.0	1.0	1.3	1.0
HW79015	1.0	1.0	2.0	2.1	2.6	2.7	1.3	1.2	1.2
HW79149	2.0	2.5	3.0	3.4	3.7	3.8	3.0	2.3	1.3
HW8033	1.0	1.0	1.8	1.6	2.4	2.0	1.7	1.7	1.0
HW8067	1.0	1.5	3.2	3.6	2.7	2.7	2.0	1.2	1.0
K1074	1.3	1.0	2.3	2.4	1.6	2.3	1.0	2.2	1.5
U75633	1.2	1.8	3.3	3.9	3.7	4.0	2.7	2.2	1.5

UNIFORM TEST III, 1982

Md.	NE	NJ	Ohio				Pa.	S.D.
Clarks-ville	Mead	Adel-phia	Ripley	Charles-ton	Hoyt-ville	Wooster	Landis-ville	Elk Point
				LODGING (score)				
2.0	1.0	1.0	1.2	2.8	1.3	1.4	1.0	3.0
2.0	1.0	1.0	1.0	3.8	1.4	1.3	1.0	3.0
2.8	1.2	1.0	1.3	3.0	1.5	1.5	1.0	2.0
2.3	1.0	1.0	1.0	2.5	1.3	1.2	1.0	2.0
2.2	1.0	1.0	1.2	3.0	1.3	1.3	1.0	2.0
2.5	1.7	1.5	1.3	3.2	1.6	2.2	1.0	2.0
2.0	1.3	1.0	1.3	3.2	1.5	1.6	1.0	1.0
2.0	1.5	1.0	1.5	3.2	1.7	1.6	1.0	2.0
1.8	1.3	1.0	1.3	3.5	1.4	1.4	1.0	2.0
2.0	1.0	1.0	1.3	3.5	2.3	1.6	1.0	3.0
2.0	1.3	1.0	1.5	3.5	1.7	1.4	1.0	3.0
2.0	1.2	1.0	1.0	2.7	1.2	1.4	1.0	2.0
2.2	1.2	1.2	1.7	3.3	2.0	1.4	1.0	4.0
3.2	1.3	1.7	1.8	4.5	2.0	2.2	1.0	3.5
2.3	1.5	1.5	1.7	3.7	1.9	1.6	1.0	4.0
2.3	1.0	1.0	1.2	2.3	1.3	1.3	1.0	2.0
2.2	1.2	1.2	1.5	3.7	1.3	1.5	1.0	4.0
2.0	1.0	1.0	1.0	2.8	1.3	1.3	1.0	2.0
2.0	1.0	1.0	1.5	2.2	1.3	1.4	1.0	2.0
2.3	1.2	1.2	1.2	1.8	1.5	1.3	1.0	3.0
1.8	1.0	1.2	1.0	1.3	1.2	1.2	1.0	2.0
1.8	1.2	1.0	1.0	2.7	1.2	1.2	1.0	3.0
2.0	2.3	1.5	1.8	4.0	1.9	1.9	1.0	4.0
1.8	1.0	1.0	1.0	3.2	1.4	1.3	1.0	2.0
2.0	1.0	1.0	1.0	3.7	1.3	1.3	1.0	3.0
2.8	1.5	2.0	1.5	2.8	1.8	2.0	1.0	2.0
2.3	1.3	2.0	1.5	3.5	1.5	2.5	1.0	4.0

UNIFORM TEST III, 1982

Strain	Mean 25 Tests	Illinois						Ind.
		Urbana	Girard	Belle-ville	Eldo-rado	Pontiac	Browns-town	Lafay-ette
		PLANT HEIGHT (inches)						
Century (II)	33	47	42	36	37	36	38	36
Cumberland (III)	35	43	41	34	41	34	39	34
Fayette	39	51	46	38	44	40	41	43
Hobbit	23	29	23	21	21	25	22	23
Pella	35	48	43	39	39	39	34	39
Union (IV)	42	57	48	36	46	44	47	48
Williams 82	37	47	46	40	45	37	43	42
Williams BC_6	37	47	44	37	42	36	38	39
Woodworth	37	46	43	37	42	39	40	38
Woodworth BC_5	36	44	42	36	42	37	39	41
A79-236002	35	48	42	35	42	39	39	35
A79-336014	33	42	41	35	36	35	38	33
A80-245022	36	48	47	37	40	40	40	37
A80-247007	35	43	47	37	38	37	36	37
A80-247008	39	52	47	43	41	39	42	41
A80-344003	34	43	41	33	41	36	37	36
A80-345005	35	46	42	38	40	37	38	36
A80-346029	32	41	42	33	38	30	34	33
HC78-674	23	29	21	21	20	31	21	23
HC78-676	25	28	20	24	20	29	21	25
HC78-679	21	26	17	21	14	26	17	20
HW79015	35	46	42	39	38	39	37	35
HW79149	37	52	46	37	43	41	41	40
HW8033	34	44	40	33	37	35	34	36
HW8067	31	39	38	32	35	32	36	35
K1074	26	33	22	27	20	30	23	25
U75633	40	50	47	39	41	44	41	44

UNIFORM TEST III, 1982

Indiana			Iowa		Kansas			Ky.
Bluff-ton	Green-field	Sulli-van	Ottum-wa	Stuart	Man-hattan	Topeka	Pow-hattan	Lexing-
PLANT HEIGHT (inches)								
28	30	30	34	42	37	23	27	34
29	32	35	38	40	40	31	35	34
33	37	40	41	45	41	34	36	42
19	19	18	27	27	27	12	23	18
27	34	35	38	44	41	30	33	35
37	42	43	46	48	42	39	40	43
32	36	41	40	44	42	34	24	38
30	35	37	40	41	37	33	32	38
32	37	35	39	44	41	31	32	40
32	35	33	38	41	41	30	31	40
27	33	37	40	44	43	28	29	36
26	30	33	30	40	38	32	31	34
28	36	31	36	43	42	33	32	39
27	33	35	36	40	38	30	30	38
31	36	39	37	48	43	39	32	42
27	34	33	33	42	40	29	29	32
28	35	40	34	41	39	30	28	37
26	30	34	36	40	35	30	28	32
18	18	18	26	28	29	12	23	24
22	24	17	27	28	37	21	25	26
20	19	17	23	26	28	11	22	19
27	31	35	35	42	40	29	31	36
30	38	37	34	44	39	33	33	36
28	31	34	37	40	39	28	30	34
25	30	36	29	39	37	30	27	30
27	26	27	27	27	28	13	25	29
30	40	38	42	49	45	32	31	41

UNIFORM TEST III, 1982

Strain	Md. Clarksville	NE Mead	NJ Adelphia	Ohio Ripley	Ohio Charleston	Ohio Hoytville	Ohio Wooster	Pa. Landisville	S.D. Elk Point
				PLANT HEIGHT (inches)					
Century (II)	27	33	25	33	38	28	32	20	39
Cumberland (III)	28	36	27	36	39	27	28	22	40
Fayette	31	43	30	38	44	33	34	23	42
Hobbit	24	24	20	23	26	25	21	19	28
Pella	31	39	27	33	37	28	29	20	41
Union (IV)	27	45	32	44	44	36	37	23	46
Williams 82	27	41	27	39	40	36	31	23	41
Williams BC_6	27	38	27	38	43	36	33	24	42
Woodworth	29	39	29	36	41	31	32	25	43
Woodworth BC_5	26	36	27	35	40	36	31	24	42
A79-236002	26	38	26	34	39	31	28	20	39
A79-336014	26	36	24	30	36	27	26	21	36
A80-245022	31	39	31	35	41	28	31	19	39
A80-247007	31	37	28	33	40	29	33	21	39
A80-247008	33	43	32	38	42	31	35	22	44
A80-344003	27	35	25	29	38	35	31	20	33
A80-345005	26	36	27	33	39	30	31	20	40
A80-346029	23	32	23	29	36	27	29	18	36
HC78-674	23	26	22	25	26	21	20	22	28
HC78-676	24	27	19	26	26	25	24	22	31
HC78-679	23	25	20	21	22	18	22	21	32
HW79015	29	38	27	29	37	30	29	24	42
HW79149	24	43	27	36	40	39	33	24	42
HW8033	29	36	27	32	38	30	30	24	40
HW8067	22	32	24	31	35	30	27	18	35
K1074	24	26	24	26	27	25	23	24	32
U75633	33	43	35	39	45	37	28	22	45

UNIFORM TEST III, 1982

Strain	Mean 24 Tests	Illinois						Ind.
		Urbana	Girard	Belle-ville	Eldo-rado	Pontiac	Browns-town	Lafay-ette
		SEED QUALITY (score)						
Century (II)	2.1	2.5	2.9	3.0	2.5	1.2	1.3	1.5
Cumberland (III)	1.7	1.8	1.9	2.0	2.7	1.2	1.6	1.0
Fayette	1.6	1.7	1.7	1.8	2.8	1.2	1.6	1.0
Hobbit	1.6	1.2	1.7	1.8	1.8	1.2	2.0	1.0
Pella	1.8	2.2	2.4	2.5	3.2	1.4	1.7	1.5
Union (IV)	1.6	1.7	1.2	2.3	2.7	1.2	1.3	1.0
Williams 82	1.5	1.0	1.4	1.3	2.7	1.2	1.3	1.0
Williams BC_6	1.5	1.2	1.7	1.5	2.3	1.2	1.6	1.0
Woodworth	1.6	1.7	1.2	1.3	2.0	1.2	1.4	1.5
Woodworth BC_5	1.4	1.7	1.4	1.3	1.7	1.2	1.2	1.5
A79-236002	2.1	2.4	2.2	2.3	2.5	1.4	1.8	1.5
A79-336014	1.6	1.9	1.7	1.3	2.5	1.2	1.4	1.0
A80-245022	1.7	1.5	1.4	1.3	2.0	1.2	1.4	1.5
A80-247007	1.7	2.0	1.9	1.8	2.3	1.2	1.7	1.5
A80-247008	1.6	2.0	2.0	1.5	2.5	1.2	1.4	1.5
A80-344003	1.8	2.0	1.2	1.5	3.0	1.3	1.7	1.5
A80-345005	1.5	1.0	1.3	1.3	2.1	1.3	1.6	1.0
A80-346029	1.7	1.7	1.0	1.5	2.5	1.2	1.5	1.0
HC78-674	1.9	2.9	1.9	2.8	2.7	1.3	1.7	1.0
HC78-676	1.9	2.4	1.5	2.5	2.4	1.2	1.7	1.5
HC78-679	1.9	1.9	2.0	2.5	2.0	1.2	1.9	1.5
HW79015	1.8	2.3	2.9	3.0	3.5	1.2	1.6	1.5
HW79149	2.2	3.0	3.4	2.3	4.3	1.2	1.8	1.5
HW8033	1.9	2.5	3.0	2.5	3.7	1.3	1.7	1.5
HW8067	1.7	2.2	1.7	2.0	2.2	1.2	1.4	1.5
K1074	1.3	1.4	1.0	1.3	1.5	1.2	1.3	1.0
U75633	1.9	2.7	2.9	2.5	2.7	1.2	1.9	1.5

UNIFORM TEST III, 1982

Strain	Indiana			Iowa		Kansas			Ky.
	Bluff-ton	Green-field	Sulli-van	Ottum-wa	Stuart	Man-hattan	Topeka	Pow-hattan	Lexing-ton
				SEED QUALITY (score)					
Century (II)	1.5	1.0	1.0	2.0		3.0	3.0	2.0	3.0
Cumberland (III)	1.5	1.0	1.5	1.9		1.0	2.0	2.0	2.0
Fayette	1.5	1.0	1.0	1.6		1.0	2.0	1.5	3.0
Hobbit	1.5	1.0	1.0	1.4		2.0	2.0	2.0	2.0
Pella	1.5	2.0	1.0	1.8		1.0	2.0	2.0	3.0
Union (IV)	1.5	1.5	1.0	1.3		1.0	2.0	1.5	2.0
Williams 82	1.0	1.0	1.0	1.6		1.0	2.0	2.0	2.0
Williams BC_6	1.0	1.0	1.0	1.5		2.0	1.0	2.0	4.0
Woodworth	1.0	1.0	1.0	1.3		2.0	2.0	2.0	2.0
Woodworth BC_5	1.0	1.0	1.0	1.4		1.0	1.0	1.5	2.0
A79-236002	2.0	1.0	1.5	2.0		3.0	4.0	2.0	3.0
A79-336014	1.0	1.0	1.0	1.9		1.0	2.0	2.0	2.0
A80-245022	1.0	1.0	1.0	1.6		2.0	2.0	1.5	3.0
A80-247007	1.0	1.0	1.0	1.4		1.0	2.0	2.0	2.0
A80-247008	1.5	1.0	1.5	1.8		1.0	2.0	2.0	1.0
A80-344003	1.5	1.0	1.5	1.3		2.0	3.0	2.0	2.0
A80-345005	1.0	1.0	1.5	2.0		2.0	1.0	1.5	2.0
A80-346029	1.0	1.5	1.0	1.6		1.0	3.0	2.0	2.0
HC78-674	1.5	1.5	1.0	2.2		2.0	2.0	2.0	2.0
HC78-676	1.5	2.0	1.5	3.6		2.0	3.0	2.0	2.0
HC78-679	1.0	1.0	1.0	1.6		2.0	3.0	1.0	4.0
HW79015	1.5	1.5	1.0	1.5		1.0	2.0	2.0	1.0
HW79149	1.5	1.5	2.0	1.9		2.0	4.0	2.0	2.0
HW8033	1.5	1.5	1.5	1.9		2.0	1.0	2.0	2.0
HW8067	1.5	1.0	1.0	1.3		2.0	3.1	2.0	3.0
K1074	1.0	1.5	1.0	1.4		1.0	1.0	1.0	2.0
U75633	1.0	1.5	1.0	2.0		1.0	3.0	1.5	3.0

UNIFORM TEST III, 1982

Md.	NE	NJ	Ohio				Pa.	S.D.
Clarks-ville	Mead	Adel-phia	Ripley	Charles-ton	Hoyt-ville	Wooster	Landis-ville	Elk Point
				SEED QUALITY (score)				
2.5	1.2	1.0	2.0	1.5	2.0	2.3	3.5	2.0
2.5	1.0	1.0	1.5	1.5	2.0	1.8	2.5	2.0
1.7	1.0	1.0	1.5	1.0	1.5	1.9	2.0	2.0
1.7	1.0	1.0	1.5	1.0	1.5	1.5	2.0	3.0
2.0	1.0	1.0	2.5	1.0	1.3	1.8	2.5	1.0
2.3	1.2	1.0	1.5	1.0	1.2	1.6	2.5	3.0
1.0	1.0	1.0	1.5	1.0	1.9	1.5	2.0	3.0
2.0	1.0	1.0	1.5	1.0	1.4	1.4	2.5	1.0
1.5	1.0	1.0	1.5	1.5	1.5	1.6	2.0	3.0
1.7	1.0	1.0	1.5	1.0	1.6	1.6	2.0	2.0
2.5	1.3	1.0	1.5	1.5	3.0	1.8	2.5	3.0
2.3	1.0	1.0	1.5	1.5	2.0	1.8	2.5	2.0
2.5	1.0	1.0	1.5	1.5	1.3	2.0	2.5	4.0
2.0	1.3	1.7	1.5	2.0	2.0	2.0	3.0	2.0
1.5	1.0	1.0	1.5	1.5	2.5	1.6	2.0	3.0
2.2	1.2	1.0	2.0	1.5	1.5	1.4	3.0	2.0
1.8	1.0	1.0	1.5	1.0	1.2	1.5	2.0	4.0
2.7	1.0	1.0	2.0	1.5	2.5	1.9	2.5	3.0
2.0	1.3	1.0	1.5	1.5	1.7	2.0	2.5	3.0
2.8	1.0	1.0	1.5	1.0	1.4	2.3	2.5	2.0
2.3	1.0	1.0	2.0	1.0	2.2	1.8	2.5	3.0
2.0	1.0	1.0	2.0	1.0	1.8	2.2	2.0	2.0
2.7	1.3	1.0	1.5	2.0	3.3	1.4	2.5	3.0
2.0	1.3	1.0	2.0	1.5	2.5	2.1	2.5	2.0
1.7	1.0	1.0	1.5	1.5	1.3	1.5	2.0	3.0
2.0	1.0	1.0	1.5	1.5	1.2	1.4	1.5	2.0
2.5	1.0	1.0	3.5	2.0	1.3	2.0	2.0	2.0

UNIFORM TEST III, 1982

Strain	Mean 24 Tests	Illinois						Ind.
		Urbana	Girard	Belle-ville	Eldo-rado	Pontiac	Browns-town	Lafay-ette
		SEED SIZE (g/100)						
Century (II)	17.6	18.9	16.1	17.4	13.6	18.1	14.7	19.2
Cumberland (III)	17.5	20.2	15.5	16.3	13.7	17.5	15.5	18.9
Fayette	15.6	18.2	13.2	13.8	11.8	16.5	12.7	17.3
Hobbit	15.2	15.9	13.1	14.0	12.0	15.0	11.7	16.4
Pella	18.4	21.1	16.8	17.4	13.5	18.1	15.6	21.1
Union (IV)	18.0	20.4	16.5	16.0	13.9	18.7	16.6	21.0
Williams 82	16.3	18.7	14.5	15.4	12.3	16.7	15.0	17.2
Williams BC_6	17.7	20.2	16.0	16.4	14.4	18.0	16.3	19.1
Woodworth	14.7	16.5	13.2	13.3	12.3	14.1	13.4	15.8
Woodworth BC_5	14.4	16.6	12.8	13.3	11.5	13.7	13.3	15.8
A79-236002	16.5	18.1	15.0	15.4	12.7	16.2	14.7	18.2
A79-336014	18.4	21.2	15.5	16.1	14.5	18.4	16.2	20.0
A80-245022	13.0	14.1	12.2	11.4	9.6	12.8	11.3	14.0
A80-247007	14.3	15.1	13.0	12.5	11.3	14.2	12.1	14.6
A80-247008	13.8	14.5	11.3	12.2	9.3	13.4	11.9	15.1
A80-344003	15.8	17.8	14.1	14.2	12.2	15.7	14.9	16.9
A80-345005	14.0	15.3	12.9	13.2	10.2	13.3	12.4	15.0
A80-346029	15.6	18.2	14.1	15.1	12.3	15.8	14.2	16.2
HC78-674	15.9	17.8	15.9	14.6	13.6	16.5	13.4	17.6
HC78-676	15.5	16.8	14.5	15.1	12.2	15.8	13.0	16.8
HC78-679	14.8	16.3	14.2	14.9	11.7	13.7	12.3	16.6
HW79015	16.5	18.0	15.1	15.5	12.9	15.4	14.7	18.1
HW79149	16.7	18.7	15.9	15.5	13.1	15.8	15.9	18.8
HW8033	18.7	20.4	16.4	16.9	13.7	18.3	16.6	20.8
HW8067	15.2	17.3	13.9	13.7	11.1	15.8	13.7	15.1
K1074	15.7	16.2	14.4	14.3	12.7	15.6	13.3	16.3
U75633	17.6	18.5	15.7	16.2	12.8	18.5	14.2	20.2

UNIFORM TEST III, 1982

Indiana			Iowa		Kansas			Ky.
Bluff-ton	Green-field	Sulli-van	Ottum-wa	Stuart	Man-hattan	Topeka	Pow-hattan	Lexing-ton
SEED SIZE (g/100)								
19.7	17.1	17.4	18.1		20.1	17.0	20.5	13.6
18.1	17.7	16.5	19.4		18.6	20.2	22.0	14.0
17.3	16.4	14.8	16.6		14.8	16.5	17.8	14.2
16.2	15.3	14.4	17.4		15.8	16.5	19.6	12.7
21.5	18.9	18.1	20.0		19.6	19.3	22.3	10.8
19.8	19.6	16.8	20.6		17.8	19.9	20.8	13.6
18.6	17.1	15.9	18.7		16.3	18.2	20.2	11.3
19.6	17.8	17.2	19.6		18.3	19.4	21.4	14.1
15.6	14.7	14.7	16.4		15.5	18.5	17.4	11.4
16.4	14.2	14.0	16.2		14.9	15.9	16.5	12.7
18.0	17.3	16.3	18.4		18.3	17.9	19.9	12.4
21.4	19.4	17.7	20.4		18.2	21.0	20.8	15.2
13.9	13.0	12.2	13.8		13.9	14.5	16.0	15.3
15.0	13.6	13.2	14.6		15.8	16.5	17.1	15.2
14.9	13.1	13.8	14.4		14.0	19.9	15.9	12.5
18.1	15.9	15.8	16.7		16.5	18.0	18.4	14.7
15.0	14.3	14.0	14.8		15.5	16.1	16.4	14.8
17.4	15.4	15.2	17.1		16.4	16.4	17.1	16.4
16.3	15.6	16.9	16.4		17.2	16.9	18.4	16.0
15.8	15.8	15.3	16.6		16.8	17.4	17.6	16.3
15.5	14.6	15.5	17.0		15.9	17.6	17.8	11.3
18.4	16.3	15.6	16.4		18.3	18.4	20.7	14.4
18.1	17.7	15.4	17.8		16.9	17.9	18.2	16.2
20.2	18.4	16.9	19.2		19.3	19.4	22.2	15.9
15.8	14.6	14.3	16.6		16.5	17.3	19.1	16.6
18.6	17.2	14.9	16.0		15.6	16.7	19.9	13.4
19.3	17.5	16.5	19.6		17.3	17.1	20.6	14.8

UNIFORM TEST III, 1982

Strain	Md. Clarksville	NE Mead	NJ Adelphia	Ohio Ripley	Ohio Charleston	Ohio Hoytville	Ohio Wooster	Pa. Landisville	S.D. Elk Point
				SEED SIZE (g/100)					
Century (II)	17.6	21.6	14.0	17.4	19.0	15.4	15.8	19.8	19.4
Cumberland (III)	17.6	19.8	13.0	17.2	19.3	16.6	16.7	18.9	17.3
Fayette	15.8	17.0	13.0	13.9	17.0	15.7	15.3	17.4	16.5
Hobbit	16.2	18.3	12.0	15.8	16.2	15.1	14.2	15.4	15.2
Pella	17.2	21.2	15.0	20.2	21.0	16.5	17.7	19.7	19.3
Union (IV)	19.9	19.4	13.0	15.3	19.3	16.7	16.5	19.9	19.1
Williams 82	16.7	18.3	13.0	12.8	17.5	15.3	16.5	18.4	16.6
Williams BC_6	18.0	20.1	14.0	15.0	19.0	16.3	17.3	19.2	17.4
Woodworth	16.2	16.4	10.0	14.5	16.1	13.6	13.7	15.6	14.5
Woodworth BC_5	15.6	16.2	11.0	14.2	14.9	12.6	14.2	15.5	13.7
A79-236002	16.6	19.8	14.0	15.6	18.0	13.7	15.0	17.7	16.8
A79-336014	18.8	20.6	16.0	17.3	19.8	16.3	17.4	20.9	18.8
A80-245022	13.7	15.2	10.0	11.9	14.9	10.8	11.0	13.6	12.7
A80-247007	14.6	16.7	11.0	16.2	15.5	11.7	12.2	14.2	16.1
A80-247008	13.4	16.7	11.0	15.2	14.6	12.1	12.4	13.7	14.8
A80-344003	16.1	17.8	13.0	14.6	17.0	14.6	15.0	17.3	14.4
A80-345005	15.2	16.4	11.0	11.8	14.9	12.7	12.9	14.5	13.4
A80-346029	16.1	17.4	12.0	14.9	16.3	15.4	13.5	17.0	14.8
HC78-674	15.6	17.9	13.0	14.6	16.6	16.2	14.4	15.3	15.3
HC78-676	14.6	17.6	12.0	15.3	16.5	15.5	13.6	15.6	14.7
HC78-679	15.4	18.1	11.0	16.1	15.3	13.5	12.6	14.2	14.3
HW79015	15.1	18.7	14.0	18.4	18.2	13.8	15.8	17.5	16.0
HW79149	15.6	18.5	13.0	14.4	19.9	14.8	17.7	18.6	15.8
HW8033	18.2	21.3	16.0	22.1	20.8	17.5	19.4	19.9	19.0
HW8067	15.4	17.6	12.0	14.5	17.1	13.6	13.3	15.1	15.8
K1074	16.4	17.7	13.0	15.0	15.6	15.6	15.6	16.8	14.8
U75633	17.7	21.2	15.0	19.5	20.8	15.6	17.2	17.5	18.5

UNIFORM TEST III, 1982

Strain	Mean 5 Tests	Ill. Urbana	Ind. Lafayette	Iowa Ottumwa	Kansas Manhattan	Ohio Charleston
			PROTEIN (%)			
Century (II)	42.3	43.2	40.1	41.7	43.9	42.4
Cumberland (III)	40.0	41.1	38.8	40.0	39.0	41.0
Fayette	40.8	42.6	41.1	38.2	41.0	41.3
Hobbit	38.4	40.5	37.8	38.6	37.6	37.5
Pella	38.7	39.9	38.1	37.8	38.6	39.0
Union (IV)	41.2	41.8	41.8	41.8	40.0	40.6
Williams 82	40.8	41.8	39.0	41.7	40.0	41.4
Williams BC_6	40.8	41.9	40.6	41.0	39.7	40.6
Woodworth	39.8	40.6	38.6	39.8	39.6	40.4
Woodworth BC_5	40.3	41.5	39.6	40.4	39.8	40.2
A79-236002	39.0	39.2	38.3	38.5	39.3	39.6
A79-336014	40.7	42.6	40.1	40.1	39.6	40.9
A80-245022	39.8	41.3	38.1	39.4	39.3	40.8
A80-247007	38.7	40.7	37.4	38.6	36.8	40.0
A80-247008	38.2	39.6	36.5	37.0	38.7	39.1
A80-344003	41.6	43.3	41.6	41.0	40.7	41.6
A80-345005	39.2	40.6	38.4	38.8	37.6	40.4
A80-346029	39.6	41.5	38.4	39.5	39.1	39.4
HC78-674	41.3	42.8	40.7	40.7	40.2	41.9
HC78-676	40.9	42.4	40.8	40.5	39.4	41.3
HC78-679	40.2	42.1	40.0	40.7	39.0	39.1
HW79015	39.7	40.4	39.0	39.3	40.0	39.7
HW79149	40.8	42.2	39.9	40.9	39.7	41.2
HW8033	39.6	40.6	39.8	38.0	39.2	40.2
HW8067	40.5	42.7	39.1	39.2	40.0	41.7
K1074	43.0	44.2	42.1	43.1	41.9	43.5
U75633	40.8	42.5	39.3	40.6	40.0	41.6

UNIFORM TEST III, 1982

Strain	Mean 5 Tests	Ill. Urbana	Ind. Lafayette	Iowa Ottumwa	Kansas Manhattan	Ohio Charleston
			OIL (%)			
Century (II)	17.7	16.8	18.4	18.4	17.4	17.3
Cumberland (III)	19.3	18.7	19.5	19.4	20.4	18.5
Fayette	18.0	16.3	18.1	19.0	18.5	18.1
Hobbit	19.8	18.4	20.1	19.1	21.2	20.0
Pella	19.0	18.4	19.6	19.1	19.2	18.9
Union (IV)	17.9	17.4	17.7	17.3	19.0	17.9
Williams 82	18.4	18.1	18.2	18.0	19.6	18.0
Williams BC_6	18.3	17.7	18.0	18.2	19.0	18.6
Woodworth	18.4	18.0	18.9	17.8	19.7	17.5
Woodworth BC_5	18.1	17.3	18.1	17.4	19.6	17.9
A79-236002	17.9	18.0	18.5	17.8	17.6	17.8
A79-336014	18.0	16.8	18.2	18.0	18.8	18.0
A80-245022	18.4	16.9	18.9	18.8	19.7	17.9
A80-247007	19.2	18.4	19.9	19.4	20.1	18.2
A80-247008	19.0	17.5	19.8	18.9	20.7	17.9
A80-344003	17.2	16.7	17.2	16.9	18.2	17.2
A80-345005	18.9	18.0	19.3	18.4	20.4	18.3
A80-346029	18.8	17.8	19.6	18.2	19.2	19.0
HC78-674	17.7	16.6	17.5	17.7	19.5	17.0
HC78-676	17.6	16.9	17.0	17.5	19.2	17.6
HC78-679	18.3	17.0	18.2	17.8	19.9	18.6
HW79015	18.1	17.6	18.5	17.8	18.8	17.6
HW79149	17.6	17.0	17.9	16.9	18.4	17.6
HW8033	18.9	18.2	18.7	19.4	20.3	17.8
HW8067	19.1	17.7	18.8	20.1	20.5	18.4
K1074	16.0	15.1	16.6	15.6	17.2	15.4
U75633	18.6	17.4	19.2	18.9	19.8	17.8

PRELIMINARY TEST IIIA, 1982

Strain	Parentage	Generation Composited
1. Century (II)	Calland x Bonus	F_6
2. Cumberland (III)	Corsoy x Williams	F_4
3. Union (IV)	Williams[5] x SL12 (Wayne Rpm Rps)	$9BC_4F_3$
4. Hobbit	Williams x Ransom	F_5
5. HC74-634RE	Williams x Ransom	F_8
6. HC78-354	L72U-2567 x Essex	F_5
7. HC78-1292	L72U-2567 x Ransom	F_5
8. HC78-1318	L72U-2567 x Ransom	F_5
9. HC78-1326	L72U-2567 x Ransom	F_5
10. HC78-1651	L72U-2567 x Essex	F_5
11. HC78-1884	L72U-2567 x Essex	F_5
12. HC78-1931	L72U-2567 x Essex	F_5
13. HC78-1944	L72U-2567 x Ransom	F_5
14. HC78-2816	L72U-2567 x Essex	F_5
15. HC78-2918	L72U-2567 x Ransom	F_5
16. HC79-1549	L72U-2567 x L72U-640	F_5
17. HC79-1631	L72U-2567 x Ransom	F_5
18. HC79-1643	L72U-2567 x Ransom	F_5
19. HC79-1786	L72U-2567 x Lee 74	F_5
20. L78L-346	L71-3628 x Essex	F_4
21. L78-8109	L73-4124 x Essex	F_4
22. L79-3910	Union x L75-8020	F_6
23. L79-4340	Union x L75-8020	F_6
24. L80-3013	Williams[2] x PI 88.788	F_6
25. L80-4323	Williams[2] x PI 88.788	F_6
26. L80-4349	Williams[2] x PI 88.788	F_6
27. Fayette	Williams[2] x PI 88.788	F_4
28. HW8130	Pella x A75-105021	F_5
29. HW8131	BSR 301 x Pella	F_5
30. HW8132	Century x Pella	F_5
31. HW8133	AX860-1 x Amcor	F_5
32. HW8134	Century x L69U40-16-4	F_5
33. HW8135	A76-202015 x Century	F_5
34. HW8136	Pride B-216 x Pella	F_5
35. HW8137	Pride B-216 x A72-512	F_5

PRELIMINARY TEST IIIA, 1982

Descriptive and Disease Data

Strain	Descriptive Code	Shattering Manhattan 2 Weeks	PM Urbana	BP Urbana	FE_2 Lafayette
			n score	n score	a score
Century (II)	PTBr IYBl I	2	2.0	1.0	5
Cumberland (III)	PGBr SYIb I	1	1.5	1.0	4
Union (IV)	WTT SYBl I	2	1.0	1.0	5
Hobbit	WTT IYBl D	1	1.5	1.0	3
HC74-634RE	WTT SYBl D	3	1.0	1.0	4
HC78-354	PTT DYBl D	1	1.0	1.0	1
HC78-1292	PTT SYBl D	1	2.0	1.0	2
HC78-1318	PTT SYBl D	1	1.0	1.0	1
HC78-1326	PTT SYBl D	1	1.0	1.0	1
HC78-1651	PTT DYBl D	1	1.0	1.0	1
HC78-1884	PTT SYBl D	2	1.0	1.0	1
HC78-1931	PTT DYBl D	1	1.0	1.0	1
HC78-1944	PTT SYBl D	1	1.0	1.0	1
HC78-2816	PTT IYBl D	2	1.0	1.0	3
HC78-2918	PTT SYBl D	1	1.0	1.0	1
HC79-1549	PTT SYBl D	1	1.5	1.0	1
HC79-1631	PTT SYBl D	1	1.0	1.0	1
HC79-1643	PTT SYBl D	1	1.0	1.0	1
HC79-1786	PTT SYBl D	1	1.0	1.0	1
L78L-346	PGT DYIb D	2	1.0	1.0	4
L78-8109	PGT DYIb D	1	1.9	1.0	3
L79-3910	WTT SYBl I	2	1.5	1.0	4
L79-4340	WGT SYBf I	2	3.0	1.0	3
L80-3013	WTT SYBl I	2	1.0	1.0	2
L80-4323	WTT SYBl I	3	1.0	1.0	2
L80-4349	WTT SYBl I	4	1.0	1.0	3
Fayette	WTT SYBl I	2	1.0	1.0	4
HW8180	PT+GBr IYIb I	2	3.4	2.0	3
HW8181	PTT IYBl I	3	1.9	2.0	4
HW8132	PTBr IYBl I	2	1.0	2.0	3
HW8133	WGBr SYY I	3	1.0	1.0	4
HW8134	PTBr DYBl I	2	1.7	2.0	5
HW8135	P+WTBr DYBl I	1	2.0	3.5	5
HW8136	PGBr IYIb I	1	2.0	1.0	4
HW8137	PGBr SYG I	1	1.0	1.0	5

PRELIMINARY TEST IIIA, 1982

Disease Data

Strain	PR_1		PR_4	PR Tolerance		PS	SMV
	Lafayette	Ames	Ames	Hoytville	Vickery	Lafayette	
	a	a	a	n	n	a	a
	reaction			score	score	%	score
Century (II)	R	H	S	2.5	3.3	50	92
Cumberland (III)	R	S	S	3.0	3.4	21	95
Union (IV)	R	H	S	2.0	3.2	31	92
Hobbit	S	S	S	3.0	3.2	8	94
HC74-634RE	S	S	S	3.0	4.0	31	96
HC78-354	S	S	S	2.5	3.2	19	96
HC78-1292	S	S	S	3.0	3.9	31	92
HC78-1318	S	S	S	3.5	4.0	7	97
HC78-1326	S	S	S	3.0	3.0	14	98
HC78-1651	S	S	S	2.5	3.6	21	99
HC78-1884	S	S	S	2.5	3.2	17	98
HC78-1931	S	S	S	1.5	3.2	3	94
HC78-1944	S	S	S	3.5	4.1	9	98
HC78-2816	S	S	S	3.5	3.2	12	96
HC78-2918	S	S	S	4.5	3.2	5	95
HC79-1549	S	S	S	3.5	4.4	21	98
HC79-1631	S	S	S	3.5	3.5	11	98
HC79-1643	S	S	S	3.0	3.6	8	99
HC79-1786	S	S	S	1.5	3.0	20	98
L78L-346	S	S	S	3.0	3.1	7	96
L78-8109	S	S	S	2.5	2.5	6	99
L79-3910	S	R	S	2.5	3.0	42	97
L79-4340	R	S	S	2.5	3.0	47	95
L80-3013	S	S	S	2.5	3.0	34	98
L80-4323	H	S	S	2.5	3.0	44	97
L80-4349	S	S	S	2.5	3.0	55	96
Fayette	S	S	S	1.5	2.6	28	92
HW8130	R	R	S	2.0	3.5	16	88
HW8131	R	R	S	3.0	3.0	43	85
HW8132	R	R	S	2.5	3.1	24	83
HW8133	S	S	S	2.5	3.0	40	89
HW8134	R	R	S	3.0	3.0	50	89
HW8135	H	S	S	2.5	2.9	21	87
HW8136	H	S	S	2.5	3.0	8	89
HW8137	R	S	S	2.0	3.0	22	95

PRELIMINARY TEST IIIA, 1982

Disease Data

Strain	BSR Ames Plant	BSR Ames Stem	BSR Lafayette Stem	BSR Urbana Foliar	PSB Lafayette	Germ Lafayette
	n %	n %	n %	n score	n %	%
Century (II)	100	55.7	20	3.5	2	92
Cumberland (III)	S	S	60	4.3	3	95
Union (IV)	S	S	80	3.5	6	92
Hobbit	100	67.5	60	3.2	3	94
HC74-634RE	100	90.5	20	3.2	3	96
HC78-354	100	100	40	1.0	2	96
HC78-1292	100	100	60	1.0	0	92
HC78-1318	100	100	60	1.0	1	97
HC78-1326	100	96.1	80	1.5	0	98
HC78-1651	100	100	40	1.5	0	99
HC78-1884	100	91.4	100	2.9	0	98
HC78-1931	100	99.2	60	2.2	2	94
HC78-1944	100	93.0	20	1.8	1	98
HC78-2816	100	97.5	80	3.2	0	96
HC78-2918	100	95.5	100	1.7	5	95
HC79-1549	100	88.6	80	1.5	2	98
HC79-1631	100	92.1	60	2.0	0	98
HC79-1643	100	95.2	40	1.9	0	99
HC79-1786	100	83.2	60	1.9	1	98
L78L-346	100	66.7	40	3.8	4	96
L78-8109	100	83.3	60	2.9	0	99
L79-3910	100	64.1	40	3.2	3	96
L79-4340	100	69.7	100	4.3	2	95
L80-3013	100	56.1	80	1.0	0	98
L80-4323	70	20.1	40	1.0	2	97
L80-4349	100	72.4	20	1.0	3	96
Fayette	90	44.3	60	1.0	7	92
HW8130	100	63.8	40	2.7	7	88
HW8131	100	77.1	80	4.2	4	85
HW8132	100	77.1	60	3.9	2	83
HW8133	100	72.8	0	4.2	3	89
HW8134	100	80.7	20	4.0	1	89
HW8135	100	77.4	40	3.7	5	87
HW8136	100	81.6	60	4.0	12	89
HW8137	100	87.6	100	4.5	2	95

PRELIMINARY TEST IIIA, 1982

Regional Summary

Strain	Yield	Rank	Maturity	Lodging	Plant Height	Seed Quality	Seed Size	Composition Protein	Composition Oil
No. of Tests	9	9	9	9	9	9	9	5	5
	bu/a	no.	date	score	in.	score	g/100	%	%
Century (II)	50.6	22	-7	2.0	37	1.7	18.7	41.3	18.2
Cumberland (III)	51.4	16	9-26*	2.4	37	1.7	17.8	39.4	19.7
Union (IV)	49.7	26	+6	2.5	46	1.4	19.0	41.1	17.9
Hobbit	52.3	9	0	1.3	25	1.4	16.2	38.1	20.2
HC74-634RE	53.8	2	+3	1.4	25	1.1	18.5	41.8	18.4
HC78-354	51.7	13	+4	1.2	23	1.4	17.7	42.0	19.4
HC78-1292	53.0	6	+4	1.5	26	1.3	16.2	39.7	19.5
HC78-1318	51.1	17	+4	1.5	25	1.4	16.5	38.7	20.3
HC78-1326	52.1	11	+6	1.4	25	1.4	16.3	40.7	18.4
HC78-1651	53.3	4	+6	1.9	25	1.5	17.3	41.4	19.0
HC78-1884	51.5	15	+5	1.5	27	1.6	16.3	42.4	17.8
HC78-1931	52.8	8	+4	1.7	29	1.6	15.2	41.6	18.8
HC78-1944	51.1	17	+5	1.9	28	1.5	15.9	40.1	20.0
HC78-2816	47.5	33	+7	1.7	26	1.7	15.1	42.6	17.9
HC78-2918	48.0	32	+4	1.6	24	1.8	17.1	39.7	19.2
HC79-1549	50.2	25	+1	1.6	26	1.6	15.5	40.1	18.8
HC79-1631	51.9	12	+3	1.4	25	1.7	17.0	39.4	20.2
HC79-1643	53.8	2	+6	1.7	27	1.7	16.3	40.3	18.9
HC79-1786	50.4	24	+4	1.5	26	1.5	15.5	39.8	19.1
L78L-346	49.6	28	+8	2.8	36	1.4	14.7	40.1	18.0
L78-8109	48.7	31	+7	1.6	34	1.5	14.5	41.4	17.3
L79-3910	49.3	30	0	2.5	41	1.6	17.9	40.8	18.0
L79-4340	47.0	35	+4	2.2	39	1.4	15.9	40.2	18.2
L80-3013	51.0	20	+1	1.7	40	1.6	17.1	41.6	18.2
L80-4323	50.6	22	-2	1.6	38	1.5	16.6	40.8	18.5
L80-4349	52.9	7	+1	1.7	37	1.5	17.0	40.7	19.0
Fayette	51.1	17	+4	2.0	43	1.6	16.1	40.9	18.3
HW8130	53.1	5	-6	2.1	37	2.2	18.3	39.7	18.3
HW8131	49.7	26	-4	2.1	38	2.1	20.2	38.0	19.5
HW8132	49.5	29	-2	2.1	41	2.0	20.2	39.8	18.6
HW8133	52.2	10	0	2.2	39	1.9	16.5	38.0	19.4
HW8134	51.7	13	-2	2.1	41	2.3	17.7	40.5	17.5
HW8135	53.9	1	+3	2.7	40	2.0	16.6	39.7	17.9
HW8136	50.9	21	+6	2.2	39	1.7	18.3	39.5	18.6
HW8137	47.5	33	+7	3.1	44	2.3	16.8	41.6	16.8

*127 days after planting

Many of the strains in this test matured too late to be considered Group III strains. Those strains that matured four or more days later than Cumberland should be entered in UT IV for continued evaluation. HW8135 was the highest yielding entry in the test but it was moderately susceptible to lodging. HC74-634RE was the highest yielding determinate entry in the test, had excellent lodging resistance, but was susceptible to phytophthora rot. L80-4349, resistant to races 3 and 4 of the SCN, was superior to the check varieties in both yield and lodging resistance.

PRELIMINARY TEST IIIA, 1982

Strain	Mean 9 Tests	Ill. Urbana	Ind. Lafayette	Iowa Ottumwa	Iowa Stuart	Ks. Manhattan
		YIELD (bu/a)				
Century (II)	50.6	44.1	63.1		52.1	48.9
Cumberland (III)	51.4	40.1	71.9		49.7	53.3
Union (IV)	49.7	40.9	70.9		46.0	44.6
Hobbit	52.3	51.4	63.6		50.9	57.2
HC78-634RE	53.8	52.6	70.9		52.8	54.9
HC78-354	51.7	55.0	63.0		53.8	50.1
HC78-1292	53.0	56.4	73.6		54.3	61.6
HC78-1318	51.1	54.2	75.6		45.9	52.0
HC78-1326	52.1	54.8	70.1		50.7	55.5
HC78-1651	53.3	58.9	68.3		46.4	53.3
HC78-1884	51.5	52.5	73.2		48.7	53.6
HC78-1931	52.8	53.6	70.0		45.6	55.2
HC78-1944	51.1	53.4	70.7		45.5	56.7
HC78-2816	47.5	45.8	56.7		44.6	51.1
HC78-2918	48.0	55.2	66.3		47.6	51.1
HC79-1549	50.2	52.0	70.5		45.7	54.4
HC79-1631	51.9	55.9	73.1		50.6	57.0
HC79-1643	53.8	57.8	73.5		51.9	57.4
HC78-1785	50.4	54.7	71.8		48.2	54.7
L78L-346	49.6	43.5	74.3		46.3	50.8
L78-8109	48.7	42.6	71.6		43.4	55.3
L79-3910	49.3	41.7	68.1		47.5	50.8
L79-4340	47.0	32.7	69.4		41.8	52.2
L80-3013	51.0	49.8	71.6		46.1	47.9
L80-4323	50.6	53.1	69.0		43.6	47.9
L80-4349	52.9	52.8	72.0		43.3	54.4
Fayette	51.1	48.5	76.2		47.3	48.0
HW8130	53.1	47.3	64.2		53.3	51.2
HW8131	49.7	44.6	66.9		47.3	41.0
HW8132	49.5	41.0	64.9		46.1	45.6
HW8133	52.2	39.5	77.7		49.0	54.1
HW8134	51.7	40.0	74.5		50.3	49.1
HW8135	53.9	43.5	75.5		56.0	54.8
HW8136	50.9	36.1	78.0		45.3	51.6
HW8137	47.5	28.9	69.5		43.2	51.8
C.V. (%)		5.7	5.8	16.7	8.1	5.1
L.S.D. (5%)		5.6	8.2	16.0	7.8	5.4
Row sp. (in.)		30	24	27	27	30
Rows/plot		4	4	4	4	4
Reps		2	2	2	2	2

PRELIMINAR TEST IIIA, 1982

Ky.	Ohio		S.D.	NE
Lexington	Charleston	Hoytville	Elk Point	Mead
		YIELD (bu/a)		
41.3	61.4	47.8	38.8	57.5
41.2	60.3	51.6	39.0	55.1
45.3	59.0	49.3	41.4	50.0
36.8	59.1	48.6	41.8	61.0
41.8	62.5	49.0	41.8	57.6
39.2	56.8	52.2	43.7	51.7
34.0	56.9	46.8	44.3	49.2
36.9	52.6	51.6	42.5	48.9
39.7	55.7	46.8	43.5	52.3
43.4	63.8	49.9	38.3	57.1
38.3	55.7	47.4	39.8	53.9
42.7	63.6	53.0	38.3	52.9
39.2	59.5	45.0	34.6	54.9
40.1	49.4	47.4	42.3	49.7
33.2	48.0	37.2	39.3	54.3
34.8	58.1	47.1	33.3	55.8
34.9	52.4	48.9	35.6	58.4
41.7	64.0	44.8	38.9	53.8
39.8	44.7	47.3	37.8	55.0
43.8	61.3	44.7	33.3	48.6
40.3	59.4	46.5	34.5	44.6
40.7	57.8	41.8	39.3	56.1
38.5	61.6	40.6	36.8	49.3
39.4	58.7	50.3	41.4	53.5
36.6	59.4	46.8	47.7	51.2
38.6	66.0	46.8	49.2	52.6
41.6	64.9	46.8	40.0	46.7
50.3	63.1	49.3	40.5	59.0
39.1	57.8	51.9	44.6	54.5
46.7	66.0	50.9	40.2	53.9
45.1	54.8	53.8	38.9	57.0
44.6	66.6	46.8	38.7	54.9
39.6	65.5	51.5	41.3	57.3
42.6	64.9	51.3	40.0	48.3
47.2	55.0	51.5	29.2	50.8
12.3	6.3	7.4	8.0	7.9
6.9	7.7	7.3	6.3	8.6
30	30	20	30	30
4	4	5	4	4
2	2	2	2	2

PRELIMINARY TEST IIIA, 1982

Strain	Mean 9 Tests	Ill. Urbana	Ind. Lafayette	Iowa Ottumwa	Iowa Stuart	Ka. Manhattan
		YIELD RANK				
Century (II)	22	23	33		6	29
Cumberland (III)	16	30	13		12	17
Union (IV)	26	29	17		24	34
Hobbit	9	17	32		8	3
HC78-634RE	2	14	18		5	9
HC78-354	13	6	34		3	27
HC78-1292	6	3	8		2	1
HC78-1318	17	9	4		25	19
HC78-1326	11	7	21		9	6
HC78-1651	4	1	26		20	14
HC78-1884	15	15	10		14	16
HC78-1931	8	10	22		27	8
HC78-1944	17	11	19		28	5
HC78-2816	33	21	35		30	23
HC78-2918	32	5	29		16	23
HC79-1549	25	16	20		26	12
HC79-1631	12	4	11		10	4
HC79-1643	2	2	9		7	2
HC79-1786	24	8	14		15	11
L78L-346	28	24	7		21	25
L78-8109	31	26	16		32	7
L79-3910	30	27	27		17	25
L79-4340	35	34	24		35	18
L80-3013	20	18	15		22	31
L80-4323	22	12	25		31	31
L80-4349	7	18	12		33	12
Fayette	17	19	3		18	30
HW8130	5	20	31		4	22
HW8131	26	22	28		18	35
HW8132	29	28	30		22	33
HW8133	10	32	2		13	15
HW8134	13	31	6		11	28
HW8135	1	24	5		1	10
HW8136	21	33	1		29	21
HW8137	33	35	23		34	20

PRELIMINARY TEST IIIA, 1982

Ky.	Ohio		S.D.	NE
Lexington	Charleston	Hoytville	Elk Point	Mead
		YIELD RANK		
14	13	18	24	5
15	15	5	21	11
4	20	13	12	27
30	19	17	10	1
11	11	15	9	4
24	26	3	5	24
34	25	23	4	30
29	31	5	7	31
20	27	23	6	23
8	8	12	26	7
28	27	19	18	17
9	9	2	27	21
23	16	30	31	14
18	33	19	8	28
35	34	35	20	16
33	22	22	33	10
32	32	16	30	3
12	7	31	22	19
19	35	21	28	12
7	14	32	34	32
17	17	29	32	35
16	23	33	19	9
27	12	34	29	29
22	21	11	11	20
31	17	23	2	25
26	2	23	1	22
13	5	23	17	34
1	10	13	14	2
25	23	4	3	15
3	2	10	15	18
5	30	1	23	8
6	1	23	25	13
21	4	7	13	6
10	5	9	16	33
2	29	7	35	26

PRELIMINARY TEST IIIA, 1982

Strain	Mean 9 Tests	Ill. Urbana	Ind. Lafayette	Iowa Ottumwa	Iowa Stuart	Ks. Manhattan
		MATURITY (date)				
Century (II)	-7	-6	-7		-7	-10
Cumberland (III)	9-26	9-19	9-18		10-6	10-4
Union (IV)	+6	+12	+7		+6	+1
Hobbit	0	0	-1		-2	+1
HC78-634RE	+3	+3	+2		+3	+2
HC78-354	+4	+11	+6		+4	+1
HC78-1292	+4	+12	+7		+6	+3
HC78-1318	+4	+12	+7		+4	+4
HC78-1326	+6	+11	+10		+6	+2
HC78-1651	+6	+13	+7		+8	+2
HC78-1884	+5	+11	+8		+6	+2
HC78-1931	+4	+12	+6		+3	0
HC78-1944	+5	+13	+6		+6	+4
HC78-2816	+7	+11	+11		+10	+3
HC78-2918	+4	+13	+8		+4	+3
HC79-1549	+1	+2	+4		0	0
HC79-1631	+3	+9	+5		+6	+2
HC79-1643	+6	+14	+7		+8	+4
HC79-1786	+4	+11	+8		+6	+1
L78L-346	+8	+12	+12		+10	0
L78-8109	+7	+8	+12		+9	0
L79-3910	0	+3	-1		-2	-1
L79-4340	+4	+6	+3		+6	+2
L80-3013	+1	+6	0		0	-1
L80-4323	-2	+1	-2		-4	-5
L80-4349	+1	+5	+2		+2	0
Fayette	+4	+8	+4		+2	0
HW8130	-6	-4	-5		-6	-9
HW8131	-4	-1	-4		-4	-2
HW8132	-2	0	-3		0	-3
HW8133	0	+2	+1		0	0
HW8134	-2	0	-2		-2	-2
HW8135	+3	+5	+6		+1	+1
HW8136	+6	+10	+8		+12	0
HW8137	+7	+10	+12		+10	+3
Date planted	5-22	5-19	5-11		6-2	6-11
Days to mature	127	123	130		126	115

PRELIMINARY TEST IIIA, 1982

Ky.	Ohio		S.D.	NE
Lexington	Charleston	Hoytville	Elk Point	Mead
		MATURITY (date)		
-11	-7	-6	-7	-5
9-16	9-20	9-16	10-13	10-5
+7	+9	+4	+5	+6
+1	-1	-1	-3	+3
+3	+8	+1	+1	+3
+5	+1	+2	0	+4
+1	+8	0	0	+3
0	+1	+1	0	+3
+7	+9	+2	+1	+6
+3	+10	+2	0	+6
+3	+9	+3	-1	+7
0	+9	+5	0	+5
+3	+5	+2	0	+8
+7	+10	+5	+1	+8
0	+4	+1	0	+6
+1	+1	-1	-1	+1
+3	+1	0	0	+3
+3	+8	+1	-1	+6
+3	+3	+2	+1	+4
+5	+12	+10	+2	+9
+3	+11	+9	+2	+7
-7	+13	-4	0	-1
+3	+9	+3	+2	+4
0	+1	0	0	+2
-4	-3	0	0	0
+1	-1	+1	0	+2
+3	+8	+3	+1	+3
-7	-4	-5	-4	-6
-11	-5	-2	-2	-2
-7	-3	-1	-1	+2
-2	+1	-1	-1	-2
-7	0	-2	-2	+1
+3	+5	+1	-1	+3
+5	+9	+2	+2	+9
+7	+9	+3	+2	+10
5-14	5-4	5-4	6-7	6-5
125	139	135	128	122

PRELIMINARY TEST IIIA, 1982

Strain	Mean 9 Tests	Ill. Urbana	Ind. Lafayette	Iowa Ottumwa	Iowa Stuart	Ks. Manhattan
		LODGING (score)				
Century (II)	2.0	2.8	1.5		2.7	2.0
Cumberland (III)	2.4	4.4	3.3		2.8	2.0
Union (IV)	2.5	3.6	2.0		3.9	2.5
Hobbit	1.3	1.2	1.5		1.7	1.3
HC74-634RE	1.4	1.9	1.3		1.8	1.5
HC78-354	1.2	1.2	1.0		1.5	1.5
HC78-1292	1.5	1.4	1.0		2.4	2.0
HC78-1318	1.5	1.2	1.0		2.1	2.0
HC78-1326	1.4	1.2	1.0		1.9	2.0
HC78-1651	1.9	2.1	1.0		3.3	3.0
HC78-1884	1.5	1.2	1.3		1.8	2.0
HC78-1931	1.7	1.6	1.3		2.4	2.8
HC78-1944	1.9	2.2	1.5		2.9	2.5
HC78-2816	1.7	1.5	1.0		2.5	2.0
HC78-2918	1.6	1.4	1.0		2.1	2.0
HC79-1549	1.6	1.5	1.0		2.6	2.0
HC79-1631	1.4	1.2	1.0		2.2	2.0
HC79-1743	1.7	2.2	1.3		1.7	2.0
HC79-1786	1.5	1.3	1.0		2.0	2.5
L78L-346	2.8	2.8	2.5		3.3	2.5
L78-8109	1.6	1.7	1.3		2.0	1.8
L79-3910	2.5	3.5	2.3		3.4	4.0
L79-4340	2.2	3.3	2.0		2.5	2.8
L80-3013	1.7	1.8	2.0		2.8	2.0
L80-4323	1.6	1.4	1.8		1.8	1.8
L80-4349	1.7	1.6	2.0		2.0	2.0
Fayette	2.0	1.8	2.3		2.1	2.0
HW8130	2.1	2.5	2.0		3.0	2.0
HW8131	2.1	2.7	1.5		2.6	2.3
HW8132	2.1	2.8	1.8		2.8	2.0
HW8133	2.2	3.6	2.0		2.3	2.3
HW8134	2.1	2.4	2.0		3.2	2.8
HW8135	2.7	4.3	2.8		3.6	3.3
HW8136	2.2	2.9	2.5		3.4	2.5
HW8137	3.1	4.0	2.5		4.4	4.0

PRELIMINARY TEST IIIA, 1982

Ky.	Ohio		S.D.	NE
Lexington	Charleston	Hoytville	Elk Point	Mead
		LODGING (score)		
1.0	2.3	1.3	3.0	1.0
1.3	2.5	1.6	2.0	1.3
2.3	2.5	1.7	2.0	1.8
1.0	1.8	1.4	1.0	1.0
1.0	2.0	1.4	1.0	1.0
1.0	1.3	1.3	1.0	1.0
1.0	1.8	1.4	1.0	1.3
1.3	1.3	1.6	2.0	1.0
1.3	1.8	1.3	1.0	1.0
1.3	2.5	1.3	2.0	1.0
1.0	2.0	1.6	2.0	1.0
1.3	1.8	1.4	2.0	1.0
1.3	1.5	1.6	2.0	1.3
1.8	1.5	1.5	2.0	1.3
1.0	1.5	1.4	2.0	1.8
1.0	1.8	1.4	2.0	1.0
1.0	1.5	1.4	1.0	1.0
1.5	2.0	1.3	2.0	1.3
1.3	1.0	1.3	2.0	1.0
2.0	3.5	2.6	4.0	2.0
1.0	2.0	1.4	2.0	1.0
1.3	2.8	1.8	2.0	1.5
1.0	2.5	1.3	3.0	1.0
1.0	2.0	1.6	1.0	1.0
1.0	2.3	1.9	1.0	1.0
1.0	2.0	2.2	1.0	1.3
1.8	2.8	2.0	2.0	1.3
1.3	2.0	1.8	3.0	1.0
1.0	2.3	2.0	3.0	1.5
1.3	2.0	1.8	3.0	1.0
1.3	1.8	1.4	4.0	1.0
1.0	2.0	1.5	3.0	1.0
1.0	2.5	1.6	4.0	1.3
1.3	2.0	1.3	3.0	1.0
2.0	2.5	2.4	3.0	2.8

PRELIMINARY TEST IIIA, 1982

Strain	Mean 9 Tests	Ill.	Ind.	Iowa		Ks.
		Urbana	Lafayette	Ottumwa	Stuart	Manhattan
		PLANT HEIGHT (inches)				
Century (II)	37	41	38		44	38
Cumberland (III)	37	38	36		41	41
Union (IV)	46	46	51		48	46
Hobbit	25	24	25		26	26
HC74-634RE	25	26	27		26	26
HC78-354	23	24	22		23	22
HC78-1292	26	28	25		29	27
HC78-1318	25	24	25		27	24
HC78-1326	25	24	25		26	25
HC78-1651	25	25	24		26	26
HC78-1884	27	27	28		29	26
HC78-1931	29	29	27		30	29
HC78-1944	28	28	27		30	30
HC78-2816	26	28	25		29	28
HC78-2918	24	24	24		26	26
HC79-1549	26	28	25		28	26
HC79-1631	25	25	25		25	25
HC79-1643	27	29	27		26	26
HC79-1786	26	26	27		25	26
L78L-346	36	38	37		30	36
L78-8109	34	31	36		38	30
L79-3910	41	41	43		48	48
L79-4340	39	42	39		44	45
L80-3013	40	43	41		40	41
L80-4323	38	41	40		42	42
L80-4349	37	43	41		42	26
Fayette	43	43	44		44	38
HW8130	37	39	38		42	37
HW8131	38	40	41		42	39
HW8132	41	43	40		43	43
HW8133	39	41	40		41	40
HW8134	41	45	42		46	44
HW8135	40	43	42		46	43
HW8136	39	41	42		48	44
HW8137	44	44	43		50	45

PRELIMINARY IIIA, 1982

Ky.	Ohio		S.D.	NE
Lexington	Charleston	Hoytville	Elk Point	Mead
		PLANT HEIGHT (inches)		
31	40	30	38	30
35	36	35	39	35
46	51	37	46	47
21	24	25	29	25
20	25	24	30	24
21	24	24	25	24
21	24	24	31	26
18	22	25	30	30
24	26	24	30	25
20	26	24	27	25
26	27	26	30	27
26	30	30	29	27
24	28	26	30	27
23	24	22	32	27
19	22	17	31	28
21	27	26	29	26
21	24	25	29	25
26	28	25	31	28
25	26	26	28	26
37	38	34	40	38
32	36	37	37	28
39	44	34	39	37
35	38	32	41	33
32	42	38	40	39
31	40	34	34	36
32	40	35	40	38
40	46	38	42	42
35	40	36	32	34
32	38	32	39	36
39	40	35	41	42
38	40	34	39	38
40	44	30	41	41
33	42	34	40	41
31	42	28	42	37
39	46	37	43	50

PRELIMINARY TEST IIIA, 1982

Strain	Mean 9 Tests	Ill. Urbana	Ind. Lafayette	Iowa Ottumwa	Iowa Stuart	Ks. Manhattan
		SEED QUALITY (score)				
Century (II)	1.7	2.8	2.0	2.1		2.0
Cumberland (III)	1.7	2.5	1.5	1.4		2.0
Union (IV)	1.4	2.5	1.0	1.7		1.0
Hobbit	1.4	1.8	1.0	1.6		2.0
HC74-634RE	1.1	1.0	1.0	1.4		1.0
HC78-354	1.4	2.0	1.0	1.7		2.0
HC78-1292	1.3	1.0	1.0	1.4		1.0
HC78-1318	1.4	1.3	1.0	1.9		1.0
HC78-1326	1.4	1.5	1.0	1.6		1.0
HC78-1651	1.5	1.8	1.0	1.5		2.0
HC78-1884	1.6	1.0	1.0	1.9		1.0
HC78-1931	1.6	1.5	1.0	2.0		1.0
HC78-1944	1.5	1.5	1.0	1.3		1.0
HC78-2816	1.7	1.8	1.5	1.5		1.0
HC78-2918	1.8	1.3	1.0	1.5		1.0
HC79-1549	1.6	1.8	1.0	1.7		1.0
HC79-1631	1.7	1.5	1.0	1.8		1.0
HC79-1643	1.7	1.3	1.5	1.8		1.0
HC79-1786	1.5	1.5	1.5	1.4		1.0
L78L-346	1.4	1.0	1.0	1.3		1.0
L78-8109	1.5	1.0	1.5	1.4		1.0
L79-3910	1.6	2.3	1.0	1.4		1.0
L79-4340	1.4	2.3	1.0	1.4		1.0
L80-3013	1.6	2.3	1.0	1.4		1.0
L80-4323	1.5	2.5	1.0	1.4		1.0
L80-4349	1.5	2.5	1.5	1.3		1.0
Fayette	1.6	2.5	1.0	1.6		1.0
HW8130	2.2	3.3	2.0	2.0		2.0
HW8131	2.1	3.0	1.5	1.9		2.0
HW8132	2.0	2.8	1.5	2.0		2.0
HW8133	1.9	3.0	1.0	1.8		1.0
HW8134	2.3	4.0	2.0	2.3		2.0
HW8135	2.0	3.0	1.5	1.4		2.0
HW8136	1.7	3.0	1.5	1.6		1.0
HW8137	2.3	3.5	1.5	2.1		2.0

PRELIMINARY TEST IIIA, 1982

Ky.	Ohio		S.D.	NE
Lexington	Charleston	Hoytville	Elk Point	Mead
		SEED QUALITY (score)		
1.0	1.5	1.7	1.0	1.0
2.0	1.5	1.9	1.0	1.3
1.0	1.0	1.3	2.0	1.0
2.0	1.0	1.6	1.0	1.0
1.0	1.0	1.8	1.0	1.0
2.0	1.0	1.5	1.0	1.0
1.0	1.5	1.6	2.0	1.0
2.0	1.0	1.6	2.0	1.0
1.0	1.5	2.2	2.0	1.0
1.0	1.0	1.9	2.0	1.0
2.0	1.5	2.0	3.0	1.0
2.0	1.0	1.8	3.0	1.0
2.0	1.0	2.0	3.0	1.0
2.0	1.5	2.3	3.0	1.0
3.0	1.5	1.9	4.0	1.0
2.0	1.0	1.5	3.0	1.0
3.0	1.0	2.0	3.0	1.0
2.0	1.0	2.4	3.0	1.0
2.0	1.5	2.3	3.0	1.0
2.0	1.0	2.0	2.0	1.0
2.0	1.5	2.5	2.0	1.0
2.0	1.5	2.2	2.0	1.0
1.0	1.0	1.8	2.0	1.0
2.0	1.5	2.0	2.0	1.0
2.0	1.0	1.9	2.0	1.0
1.0	1.5	1.7	2.0	1.0
2.0	1.5	2.0	2.0	1.0
2.0	2.5	2.1	2.0	1.5
2.0	2.0	2.4	3.0	1.0
2.0	1.5	2.6	3.0	1.0
3.0	1.5	1.8	3.0	1.0
2.0	2.0	3.0	2.0	1.0
2.0	2.5	2.2	2.0	1.0
2.0	2.0	1.4	2.0	1.0
2.0	2.5	2.8	3.0	1.3

PRELIMINARY TEST IIIA, 1982

Strain	Mean 9 Tests	Ill. Urbana	Ind. Lafayette	Iowa Ottumwa	Iowa Stuart	Ks. Manhattan
		SEED SIZE (g/100)				
Century (II)	18.7	16.8	19.3	19.5		20.1
Cumberland (III)	17.8	16.5	19.9	18.7		19.1
Union (IV)	19.0	19.1	21.4	20.4		18.3
Hobbit	16.2	15.1	17.8	15.0		16.9
HC74-634RE	18.5	18.4	20.6	19.6		19.7
HC78-354	17.7	17.2	19.7	18.8		19.2
HC78-1292	16.2	16.2	17.9	16.2		15.7
HC78-1318	16.5	16.6	16.9	18.2		17.9
HC78-1326	16.3	16.3	19.4	18.6		17.9
HC78-1651	17.3	17.8	20.0	19.1		18.0
HC78-1884	16.3	16.6	19.0	17.1		16.7
HC78-1931	15.2	15.6	16.2	15.0		15.7
HC78-1944	15.9	16.1	17.3	16.0		16.1
HC78-2816	15.1	14.0	18.3	15.0		14.2
HC78-2918	17.1	16.7	19.5	17.6		17.7
HC79-1549	15.5	14.9	17.8	15.6		16.4
HC79-1631	17.0	17.3	19.7	18.0		18.0
HC79-1643	16.3	16.6	18.2	17.8		18.8
HC79-1786	15.5	15.8	17.5	16.2		16.9
L78L-346	14.7	14.5	16.5	15.2		15.2
L78-8109	14.5	14.1	16.3	13.3		15.8
L79-3910	17.9	18.6	20.0	17.9		18.4
L79-4340	15.9	15.2	17.9	16.7		17.3
L80-3013	17.1	18.6	18.6	16.6		16.4
L80-4323	16.6	17.8	17.0	16.4		15.9
L80-4349	17.0	17.9	17.9	17.0		16.4
Fayette	16.1	17.1	17.4	17.2		14.8
HW8130	18.3	16.8	20.3	18.2		18.5
HW8131	20.2	18.3	23.7	21.4		21.1
HW8132	20.2	17.8	21.4	21.6		20.4
HW8133	16.5	14.5	18.6	16.4		16.8
HW8134	17.7	16.4	18.6	19.4		18.6
HW8135	16.6	14.8	18.2	17.6		17.4
HW8136	18.3	16.5	20.1	19.5		20.2
HW8137	16.8	15.7	19.5	17.4		18.1

PRELIMINARY TEST IIIA, 1982

Ky.	Ohio		S.D.	NE
Lexington	Charleston	Hoytville	Elk Point	Mead
		SEED SIZE (g/100)		
14.1	19.8	16.0	19.9	22.9
13.5	19.4	17.0	16.6	19.9
13.5	19.9	17.8	19.2	21.3
16.2	17.0	13.5	16.1	18.6
14.5	19.2	16.0	17.2	21.7
13.9	19.1	15.3	16.2	19.8
18.1	15.8	13.0	13.5	19.2
16.6	16.5	14.2	14.8	16.8
12.7	17.7	12.1	14.0	18.4
12.0	18.5	15.2	15.3	19.5
14.5	18.1	13.9	13.5	17.6
13.1	16.3	14.2	13.7	17.1
14.7	16.8	14.9	14.2	17.3
14.4	16.3	13.5	12.9	17.6
15.8	19.4	14.2	14.9	18.2
14.5	15.6	13.4	13.9	17.8
14.9	16.6	15.0	14.4	18.7
12.0	18.8	13.8	13.4	17.4
13.0	16.2	12.9	13.0	18.0
13.0	15.6	12.4	13.5	16.3
13.8	15.1	14.4	12.4	15.4
13.6	18.9	16.0	17.1	20.3
13.1	16.9	13.8	14.9	17.3
14.5	18.4	16.0	17.0	18.1
13.3	18.0	16.3	16.8	17.8
14.7	17.8	16.0	17.5	17.6
12.3	17.0	15.8	15.9	17.1
15.4	19.8	16.2	17.2	22.2
13.9	20.7	19.7	20.6	22.3
16.5	22.6	19.3	19.7	22.4
16.1	18.3	14.2	15.6	17.6
13.6	19.6	16.1	17.7	19.2
11.6	18.2	14.3	16.8	20.4
13.3	19.5	17.4	17.5	20.4
14.3	17.9	15.0	15.3	18.4

PRELIMINARY TEST IIIA, 1982

Strain	Mean 5 Tests	Ind. Lafayette	Iowa Ottumwa	Ks. Manhattan	Ky. Lexington	Ohio Charleston
			PROTEIN (%)			
Century (II)	41.3	40.5	42.6	42.8	39.4	41.1
Cumberland (III)	39.4	40.7	38.6	39.2	37.3	41.1
Union (IV)	41.1	40.6	41.1	40.3	42.1	41.5
Hobbit	38.1	37.6	36.9	37.8	38.7	39.3
HC74-634RE	41.8	41.4	41.1	41.1	44.4	41.1
HC78-354	42.0	42.5	41.9	41.8	41.5	42.2
HC78-1292	39.7	40.5	39.0	40.7	38.1	40.3
HC78-1318	38.7	39.3	40.8	38.1	36.8	38.7
HC78-1326	40.7	40.5	40.2	40.5	42.6	39.8
HC78-1651	41.4	42.5	41.5	41.5	40.7	40.7
HC78-1884	42.4	42.4	42.4	41.6	42.4	43.4
HC78-1931	41.6	41.3	41.2	40.6	43.2	41.6
HC78-1944	40.1	40.4	38.5	39.4	42.1	39.9
HC78-2816	42.6	43.8	42.7	42.3	41.9	42.5
HC78-2918	39.7	40.9	40.7	39.7	38.0	39.4
HC79-1549	40.1	41.4	39.6	40.3	39.4	40.0
HC79-1631	39.4	40.3	39.9	39.9	37.5	39.6
HC79-1643	40.3	40.0	40.1	40.1	40.2	41.1
HC79-1786	39.8	40.6	40.4	39.9	37.7	40.2
L78L-346	40.1	41.3	41.1	39.8	38.2	40.1
L78-8109	41.4	43.2	40.8	40.7	39.3	42.8
L79-3910	40.8	41.5	40.3	40.6	40.1	41.5
L79-4340	40.2	39.7	39.7	39.7	40.1	41.7
L80-3013	41.6	42.1	41.1	41.0	40.4	43.4
L80-4323	40.8	40.6	40.7	41.0	41.7	40.2
L80-4349	40.7	41.3	41.5	40.7	39.4	40.8
Fayette	40.9	41.7	41.7	40.4	38.4	42.3
HW8130	39.7	40.4	39.1	39.0	39.5	40.6
HW8131	38.0	38.2	37.4	38.9	36.5	39.0
HW8132	39.8	38.9	38.7	40.7	40.4	40.5
HW8133	38.0	38.4	37.4	38.9	36.4	39.0
HW8134	40.5	39.9	41.3	40.5	39.3	41.3
HW8135	39.7	40.5	38.6	40.4	39.2	39.6
HW8136	39.5	40.2	39.8	38.9	40.2	38.6
HW8137	41.6	41.6	41.7	41.5	40.9	42.2

PRELIMINARY TEST IIIA, 1982

Strain	Mean 5 Tests	Ind. Lafayette	Iowa Ottumwa	Ks. Manhattan	Ky. Lexington	Ohio Charleston
			OIL (%)			
Century (II)	18.2	17.9	17.9	17.9	20.1	17.0
Cumberland (III)	19.7	18.9	20.3	20.2	21.6	17.7
Union (IV)	17.9	17.9	18.2	18.6	18.5	16.4
Hobbit	20.2	20.4	19.1	21.1	21.8	18.8
HC74-634RE	18.4	18.1	17.9	19.0	18.8	18.2
HC78-354	19.4	18.6	19.3	20.1	20.0	18.8
HC78-1292	19.5	18.5	20.2	20.1	20.7	18.1
HC78-1318	20.3	19.9	18.5	20.9	22.9	19.5
HC78-1326	18.4	18.2	18.9	19.2	18.1	17.6
HC78-1651	19.0	18.1	18.5	19.4	20.7	18.1
HC78-1884	17.8	17.5	17.7	18.1	18.9	16.7
HC78-1931	18.8	18.5	19.1	19.9	18.6	18.0
HC78-1944	20.0	19.5	20.9	20.6	19.5	19.4
HC78-2816	17.9	16.8	17.8	17.5	19.4	17.9
HC78-2918	19.2	18.4	19.1	19.2	21.0	18.2
HC79-1549	18.8	17.8	18.8	19.5	20.6	17.5
HC79-1631	20.2	19.0	20.0	20.4	22.5	19.1
HC79-1643	18.9	18.9	19.0	19.6	20.9	16.2
HC79-1786	19.1	17.9	18.6	19.5	21.2	18.2
L78L-346	18.0	16.9	17.1	18.6	20.0	17.6
L78-8109	17.3	16.7	16.9	18.0	19.1	15.9
L79-3910	18.0	17.7	17.4	18.4	19.8	16.9
L79-4340	18.2	18.3	18.0	18.4	19.2	16.9
L80-3013	18.2	17.6	17.7	19.0	20.1	16.7
L80-4323	18.5	18.0	18.1	19.3	19.0	18.2
L80-4349	19.0	17.8	18.3	18.9	22.1	18.1
Fayette	18.3	17.4	17.3	18.6	21.1	16.9
HW8130	18.3	18.4	18.5	20.2	17.4	16.9
HW8131	19.5	19.0	19.5	19.7	21.2	17.9
HW8132	18.6	18.8	18.6	18.7	19.4	17.7
HW8133	19.4	18.7	19.6	20.1	21.3	17.1
HW8134	17.5	17.2	17.4	17.4	19.3	16.3
HW8135	17.9	17.3	17.6	17.8	19.4	17.2
HW8136	18.6	18.8	17.9	20.1	18.0	18.2
HW8137	16.8	16.4	15.9	16.9	19.3	15.7

PRELIMINARY TEST IIIB, 1982

Strain	Parentage	Generation Composited
1. Century (II)	Calland x Bonus	F_6
2. Cumberland (III)	Corsoy x Williams	F_4
3. Union (IV)	Williams[5] x SL12 (Wayne Rpm Rps$_1$)	$9BC_4F_3$
4. A81-257013	Land o'Lakes Max x BSR 302	F_4
5. A81-257025	NKS1492 x A75-204018	F_4
6. A81-352008	A76-202015 x Century	F_4
7. A81-353004	Century x A76-304020	F_4
8. A81-353005	Century x A76-304020	F_4
9. A81-354007	A76-304020 x Asgrow 2656	F_4
10. A81-354009	Century x A76-304020	F_4
11. A81-354015	A76-304020 x A75-103019	F_4
12. A81-354017	A76-304020 x A75-103019	F_4
13. A81-354025	Schechinger S48 x Land o'Lakes Max	F_4
14. A81-355003	A76-202015 x Land o'Lakes Max	F_4
15. A81-355005	Century x A76-304020	F_4
16. A81-355012	A76-304020 x Land o'Lakes Max	F_4
17. A81-355020	Century x Land o'Lakes Max	F_4
18. A81-356022	Century x A76-304020	F_4
19. C1599	C1311 x C1504	F_7
20. C1600	C1504 x Wells	F_7
21. C1601	C1504 x Wells	F_7
22. C1604	C1512 x Calland	F_6
23. C1606	Hodgson x Tracy	F_7
24. C1610	Woodworth x C1524	F_6
25. C1611	Woodworth x CX521-71	F_6
26 C1616	CX588-78 x CX597-169	F_6
27. K1086	Union x Desoto	F_5
28. K1087	Union x Desoto	F_5
29. K1088	Union x Desoto	F_5
30. LN80-8542	A76-304020 x Land o'Lakes Max	F_4
31. LN80-9359	Weber x A76-202015	F_4
32. LN80-14949	K1030 x K1028	F_5
33. LN80-14950	K1030 x K1028	F_5
34. U-76323	Williams x Amsoy 71	F_5
35. U-76360	Williams x Amsoy 71	F_5

PRELIMINARY TEST IIIB, 1982

Descriptive and Disease Data

Strain	Descriptive Code			Shattering Manhattan 2 Weeks	DM	BP	Mottling	SMV	PS	PSB	Germ
					Urbana			Lafayette			
					n score	n score	n score	a score	a %	n %	%
Century (II)	PTBr	IYBl	I	2	3.3	1.0	2	5E	44	2	92
Cumberland (III)	PGBr	SYIb	I	1	2.0	1.0	2	5E	21	3	95
Union (IV)	WTT	SYBl	I	2	1.0	1.0	3	5M	31	6	92
A81-257013	PTBr	SYBl	I	2	1.0	1.0	3	5E	17	10	90
A81-257025	WTBr	DYBr	I	2	3.0	1.0	4	5E	8	8	92
A81-352008	PTBr	DYBl	I	2	3.0	1.0	3	5E	34	20	74
A81-353004	PTBr	DYBl	I	2	2.3	1.0	4	5E	13	14	86
A81-353005	PTBr	DYBl	I	1	3.0	1.0	4	5S	56	17	81
A81-354007	PGBr	DYIb	I	2	2.5	2.0	2	3E	36	0	98
A81-354009	PTBr	DYBl	I	3	2.5	1.0	4	5E	20	4	93
A81-354015	PTBr	SYBl	I	2	1.0	1.0	3	3E	42	2	96
A81-354017	PTBr	SYBl	I	1	1.7	1.0	4	5E	32	13	84
A81-354025	PTBr	SYBr	I	2	2.3	1.0	4	5E	14	15	80
A81-355003	WTBr	SYBl	I	1	3.0	1.0	2	5S	18	5	92
A81-355005	PTBr	DYBl	I	2	2.0	3.5	3	5E	56	5	94
A81-355012	PTBr	DYBl	I	3	1.0	1.0	3	5E	39	9	84
A81-355020	PTBr	SYBl	I	1	2.0	2.8	4	5E	24	3	94
A81-356022	PTBr	DYBl	I	1	3.0	1.0	4	5E	17	3	94
C1599	WGT	SYBf	I	2	3.2	1.8	4	5E	26	11	89
C1600	PGBr	SYBf	I	3	2.0	1.0	1	3M	63	4	93
C1601	PGBr	SYBf	I	2	3.0	1.5	2	2M	72	2	92
C1604	PTBr	DYBl	I	3	3.5	1.0	3	5S	19	10	89
C1606	WGT	DYBf	I	1	1.0	1.0	1	1	37	3	94
C1610	PG+TBr	DYBl	I	2	3.5	1.0	3	5E	33	2	94
C1611	PGBr	DYY	SD	3	3.5	1.0	2	4E	22	6	89
C1616	PGBr	DYIb	I	2	4.5	1.0	1	2E	54	4	93
K1086	WTT	DYBl	I	1	2.3	1.0	3	5E	18	1	98
K1087	P+WTT	DYBl	I	1	2.5	1.0	3	5E	15	2	96
K1088	PTT	SYBl	I	1	1.0	1.0	3	5E	19	0	93
LN80-8542	PTBr	SYBl	I	2	2.8	1.0	3	5E	15	4	92
LN80-9359	WTBr	DYBl	I	2	2.3	2.8	1	5E	13	14	86
LN80-14949	PTT	DYBl	I	3	3.5	1.8	2	3E	52	18	82
LN80-14950	PTT	DYBl	I	2	3.0	1.0	2	3E	51	18	81
U76323	WGBr	SYBf	I	2	2.8	1.0	1	2M	60	3	96
U76360	WGT	SYY	I	3	4.0	1.0	2	4M	49	17	83

PRELIMINARY TEST IIIB, 1982

Disease Data

Strain	PR_1		PR_4	PR Tolerance		BSR				FE_2
	Lafayette	Ames	Ames	Hoytville	Vickery	Plant	Stem	Lafayette Stem	Urbana Foliar	Lafayette
	a	a	a	n	n	n	n	n	n	a
	----reaction----			score	score	%	%	%	score	score
Century (II)	R	H	S	2.0	3.3	S	S	20	4.0	5
Cumberland (III)	R	S	S	3.0	3.4	S	S	60	3.5	4
Union (IV)	R	H	S	2.0	3.2	100	76.9	80	3.0	5
A81-257013	H	S	S	2.0	2.9	80	15.5	0	1.5	5
A81-257025	-	S	S	2.0	3.5	100	82.4	60	2.9	-
A81-352008	H	H	H	1.5	3.0	100	68.6	20	3.9	5
A81-353004	R	H	S	2.0	2.9	90	52.8	80	3.7	5
A81-353005	R	S	S	2.0	3.4	100	66.7	40	3.9	5
A81-354007	S	S	S	2.0	3.0	70	18.4	40	1.9	4
A81-354009	R	S	S	1.0	2.9	100	72.6	0	4.3	5
A81-354015	S	H	S	2.0	2.9	90	45.8	20	1.0	4
A81-354017	R	H	S	2.0	2.9	100	63.5	40	4.7	4
A81-354025	S	S	S	1.0	3.8	100	58.9	40	2.4	1
A81-355003	S	S	S	2.0	3.0	80	38.5	20	2.7	2
A81-355005	R	R	S	2.0	2.9	100	80.4	80	3.8	5
A81-355012	S	S	S	2.0	2.9	50	12.1	0	1.5	1
A81-355020	R	S	S	2.0	3.0	100	86.0	80	2.9	3
A81-356022	R	R	S	2.0	3.5	100	64.9	40	1.0	4
C1599	S	S	S	1.0	2.8	90	59.3	60	2.7	1
C1600	R	H	S	2.0	3.9	100	66.2	80	1.2	1
C1601	R	S	S	2.0	3.4	100	68.4	40	2.2	1
C1604	R	H	S	2.0	3.6	100	62.4	20	3.0	4
C1606	R	R	R	3.0	2.8	100	73.2	60	3.0	5
C1610	S	S	S	2.0	3.1	100	71.1	20	3.2	4
C1611	S	S	S	1.5	4.0	90	44.9	40	2.0	5
C1616	S	S	S	2.0	3.6	100	63.6	40	3.0	3
K1086	R	R	S	1.5	3.0	100	83.7	80	3.0	2
K1087	R	R	S	1.0	2.6	100	77.7	60	2.8	1
K1088	R	R	S	1.5	3.0	100	80.9	20	3.9	1
LN80-8542	S	S	S	2.0	2.9	90	59.0	40	3.0	1
LN80-9359	S	S	S	2.5	3.8	80	43.2	0	3.4	4
LN80-14949	R	S	S	2.0	3.2	100	75.3	60	1.5	5
LN80-14950	R	R	S	2.0	3.2	100	78.2	40	2.2	4
U76323	S	S	H	2.0	3.0	100	69.6	60	1.5	4
U76360	S	S	S	2.0	3.4	90	44.6	40	3.0	4

PRELIMINARY TEST IIIB, 1982

Regional Summary

Strain	Yield	Rank	Maturity	Lodging	Plant Height	Seed Quality	Seed Size	Composition Protein	Composition Oil
No. of Tests	9	9	9	9	9	9	9	4	4
	bu/a	no.	date	score	in.	score	g/100	%	%
Century (II)	51.6	19	-7	2.0	38	1.9	18.3	41.6	17.8
Cumberland (III)	52.4	16	9-26*	2.6	39	1.4	17.7	39.6	19.4
Union (IV)	50.9	25	+7	2.8	48	1.6	19.1	41.0	17.8
A81-257013	54.0	4	-1	2.9	46	2.0	17.9	40.7	18.4
A81-257025	53.5	7	+2	2.6	40	1.6	15.4	38.7	19.2
A81-352008	52.5	14	-1	2.5	42	1.6	17.0	39.4	18.8
A81-353004	50.2	27	+3	3.5	47	1.7	15.9	41.2	17.3
A81-353005	50.8	26	+4	2.9	48	1.7	14.6	40.3	17.5
A81-354007	53.2	11	+3	3.2	44	1.8	17.1	39.6	17.8
A81-354009	52.9	12	+6	3.0	45	1.6	15.4	40.5	17.3
A81-354015	53.7	5	+3	3.7	42	1.7	16.6	40.7	17.8
A81-354017	49.8	29	+6	3.8	45	1.7	15.8	40.3	18.0
A81-354025	54.4	3	+2	2.2	43	2.0	17.2	38.5	19.2
A81-355003	52.5	14	+4	3.4	43	1.7	15.8	40.1	18.8
A81-355005	51.6	19	+6	3.1	45	1.6	16.6	40.2	17.7
A81-355012	54.5	2	+5	3.2	44	1.8	18.0	40.4	17.9
A81-355020	53.5	7	+6	3.5	46	1.7	19.1	41.5	17.6
A81-356022	55.6	1	+5	3.0	47	1.9	19.1	41.2	17.4
C1599	49.7	31	+6	2.1	47	1.7	16.1	40.3	18.2
C1600	50.2	27	-4	2.5	45	2.9	19.5	40.9	17.6
C1601	46.5	33	-4	2.1	43	2.1	17.5	41.6	17.4
C1604	51.6	19	0	2.6	45	2.0	15.9	40.6	17.4
C1606	52.6	13	+4	2.8	39	1.5	17.1	42.4	16.9
C1610	45.8	34	+2	2.5	47	1.6	15.7	39.7	18.5
C1611	45.8	34	-5	2.3	36	1.8	14.3	40.4	17.0
C1616	49.8	29	+1	2.8	46	2.3	18.6	41.0	18.6
K1086	51.1	23	+5	2.9	42	1.8	17.3	39.8	18.2
K1087	53.3	9	+7	2.7	45	1.7	16.8	40.0	18.1
K1088	51.4	22	+6	3.0	46	1.7	17.5	40.4	18.0
LN80-8542	51.0	24	+3	2.6	40	1.8	18.4	41.3	18.0
LN80-9359	53.6	6	-6	3.0	33	1.9	15.0	38.5	19.1
LN80-14949	51.8	17	+1	2.6	42	1.7	18.3	40.0	18.7
LN80-14950	51.8	17	0	2.5	42	1.7	17.5	39.9	18.5
U76323	49.2	32	-2	2.5	41	1.6	18.2	41.2	18.8
U76360	53.3	9	-4	2.1	39	1.6	17.2	39.8	19.4

*127 days after planting

The two highest yielding strains in this test, A81-356022 and A81-355012 mature late enough so that further evaluation should be in UT IV. Both strains were susceptible to lodging. A81-354025 was superior to Cumberland in both yield and lodging resistance. LN80-9359 matured early for a Group III strain and further evaluation should be in UT II.

PRELIMINARY TEST IIIB, 1982

Strain	Mean 9 Tests	Ill. Urbana	Ind. Lafayette	Iowa Ottumwa	Iowa Stuart	Ks. Manhattan
			YIELD (bu/a)			
Century (II)	51.6	41.3	64.2		52.1	48.8
Cumberland (III)	52.4	47.4	74.1		49.7	46.1
Union (IV)	50.9	40.6	77.5		46.0	49.1
A81-257013	54.0	50.0	72.8		58.3	50.4
A81-257025	53.5	51.6	70.1		49.9	58.7
A81-352008	52.5	42.5	74.3		47.4	48.3
A81-353004	50.2	39.8	74.6		47.9	49.2
A81-353005	50.8	42.2	68.2		44.4	56.2
A81-354007	53.2	51.7	83.4		53.2	37.9
A81-354009	52.9	40.0	78.0		47.4	52.3
A81-354015	53.7	49.3	75.5		48.5	50.8
A81-354017	49.8	30.4	72.6		46.4	54.7
A81-354025	54.4	44.7	80.0		47.9	53.5
A81-355003	52.5	47.0	73.0		48.8	52.2
A81-355005	51.6	36.8	78.2		47.3	46.9
A81-355012	54.5	52.7	79.5		50.8	50.8
A81-355020	53.5	38.7	81.0		51.3	54.4
A81-356022	55.6	52.5	79.3		52.5	50.1
C1599	49.7	40.9	69.1		47.1	45.4
C1600	50.2	47.3	71.3		45.9	44.9
C1601	46.5	40.4	64.3		43.3	40.2
C1604	51.6	40.0	71.8		52.0	51.0
C1606	52.6	44.9	70.1		50.6	53.9
C1610	45.8	41.8	70.6		41.8	23.7
C1611	45.8	39.9	62.8		43.1	49.1
C1616	49.8	40.0	72.5		46.4	51.1
K1086	51.1	42.9	72.5		47.7	52.5
K1087	53.3	44.4	78.1		43.2	50.2
K1088	51.4	39.8	74.7		47.4	48.1
LN80-8542	51.0	48.2	78.8		48.2	52.2
LN80-9359	53.6	48.9	67.1		52.5	45.3
LN80-14949	51.8	45.8	72.0		49.5	42.5
LN80-14950	51.8	39.6	76.3		44.9	47.3
U76323	49.2	42.8	55.5		46.3	52.2
U76360	53.3	45.3	65.6		50.0	53.0
C.V. (%)		5.5	6.1		8.1	14.1
L.S.D. (5%)		4.9	8.9		7.8	14.0
Row sp. (in.)		30	24		27	30
Rows/plot		4	4		4	4
Reps		2	2		2	2

PRELIMINARY TEST IIIB, 1982

Ky.	Ohio		S.D.	NE
Lexington	Charleston	Hoytville	Elk Point	Mead
		YIELD (bu/a)		
46.3	58.4	53.2	43.0	57.0
47.9	59.7	52.7	41.7	52.3
50.5	58.7	52.1	34.7	49.0
46.8	64.2	49.8	42.1	51.3
45.3	64.1	54.5	34.5	52.5
48.5	60.7	56.8	39.4	54.9
47.9	57.5	50.0	35.3	49.6
41.2	65.0	49.2	41.4	49.7
49.5	65.4	53.4	36.4	48.0
51.6	68.8	53.7	36.4	47.9
50.5	69.5	51.4	39.9	47.7
48.1	66.0	50.3	33.9	45.7
50.5	64.8	49.7	41.4	57.1
51.3	65.6	49.4	34.3	50.9
51.9	64.4	51.6	40.8	46.1
50.4	60.4	52.1	40.1	53.4
53.7	64.1	51.7	38.5	48.0
52.2	67.6	54.1	44.2	47.9
50.1	59.9	50.5	35.0	48.9
46.5	57.2	54.3	39.3	44.8
43.0	56.2	49.5	36.8	45.0
51.4	67.1	49.5	38.7	43.1
52.5	62.6	50.4	37.9	50.6
45.0	59.5	48.7	35.3	45.7
44.8	56.0	43.9	37.1	35.5
45.8	60.6	47.2	38.3	45.9
51.4	62.6	48.9	32.3	48.9
56.1	69.8	50.1	39.8	47.7
54.7	65.2	50.8	33.5	48.8
49.5	58.9	50.2	35.0	37.6
53.4	58.3	57.7	42.1	57.2
46.9	59.7	56.1	42.6	51.0
54.4	61.3	50.5	43.1	49.2
48.1	56.2	52.8	37.9	51.1
48.5	59.5	59.0	39.9	58.9
10.4	5.9	5.6	8.3	9.1
7.1	7.6	5.9	6.4	9.2
30	30	20	30	30
4	4	5	4	4
2	2	2	2	2

PRELIMINARY TEST IIIB, 1982

Strain	Mean 9 Tests	Ill. Urbana	Ind. Lafayette	Iowa Ottumwa	Iowa Stuart	Ks. Manhattan
		YIELD RANK				
Century (II)	19	22	33	5		23
Cumberland (III)	16	9	16	12		28
Union (IV)	25	24	10	28		21
A81-257013	4	5	18	1		17
A81-257025	7	4	26	11		1
A81-352008	14	19	15	20		24
A81-353004	27	30	14	17		20
A81-353005	26	20	29	31		2
A81-354007	11	3	1	2		34
A81-354009	12	26	9	20		9
A81-354015	5	6	12	15		15
A81-354017	29	35	19	25		3
A81-354025	3	15	3	17		6
A81-355003	14	11	17	14		10
A81-355005	19	34	7	23		27
A81-355012	2	1	4	8		15
A81-355020	7	33	2	7		4
A81-356022	1	2	5	3		19
C1599	31	23	28	24		29
C1600	27	10	24	29		31
C1601	33	25	32	32		33
C1604	19	26	23	6		14
C1606	13	14	27	9		5
C1610	34	21	25	35		35
C1611	34	29	34	34		21
C1616	29	26	21	25		13
K1086	23	17	20	19		8
K1087	9	15	8	33		18
K1088	22	30	13	20		25
LN80-8542	24	8	6	16		10
LN80-9359	6	7	30	3		30
LN80-14949	17	12	22	13		32
LN80-14950	17	32	11	30		26
U76323	32	18	35	27		10
U76360	9	13	31	10		7

PRELIMINARY TEST IIIB, 1982

Ky.	Ohio		S.D.	NE
Lexington	Charleston	Hoytville	Elk Point	Mead
		YIELD RANK		
29	29	10	3	4
24	23	12	7	8
13	28	14	30	17
27	13	26	6	9
31	14	5	31	7
20	19	3	16	5
25	31	25	15	15
35	10	31	26	14
19	8	9	8	21
9	3	8	25	24
14	2	17	12	26
23	6	22	33	30
15	11	27	9	3
12	7	30	32	12
8	12	16	10	27
16	21	13	11	6
4	14	15	19	22
7	4	7	1	23
17	22	19	29	20
28	32	6	17	32
34	33	28	24	31
11	5	28	18	33
6	16	21	22	13
32	25	33	27	29
33	35	35	23	35
30	20	34	20	28
10	16	32	35	18
1	1	24	14	25
2	9	18	34	19
18	27	23	28	34
5	30	2	5	2
26	23	4	4	11
3	18	19	2	16
22	33	11	21	10
21	25	1	13	1

PRELIMINARY TEST IIIB, 1982

Strain	Mean 9 Tests	Ill. Urbana	Ind. Lafayette	Iowa Ottumwa	Iowa Stuart	Ks. Manhattan
		MATURITY (date)				
Century (II)	-7	-8	-6		-7	-10
Cumberland (III)	9-26	9-20	9-17		10-6	10-3
Union (IV)	+7	+10	+11		+6	+3
A81-257013	-1	+1	-1		-1	-4
A81-257025	+2	+6	0		+5	+3
A81-352008	-1	-2	-2		-2	0
A81-353004	+3	+8	+6		+2	+1
A81-353005	+4	+7	+7		+6	+3
A81-354007	+3	+6	-1		+4	-1
A81-354009	+6	+8	+7		+6	+2
A81-354015	+3	+11	+4		+4	-2
A81-354017	+6	+7	+9		+8	+3
A81-354025	+2	+4	+1		+1	+2
A81-355003	+4	+6	+6		+2	+2
A81-355005	+6	+8	+10		+8	+3
A81-355012	+5	+10	+7		+6	+1
A81-355020	+6	+9	+8		+4	+2
A81-356022	+5	+12	+4		+5	+1
C1599	+6	+9	+6		+6	+1
C1600	-4	+6	-3		-6	-15
C1601	-4	-5	-4		-4	-12
C1604	0	+4	-1		-2	-1
C1606	+4	+10	+7		+4	+4
C1610	+2	+5	+1		+2	+1
C1611	-5	-3	-3		-5	-7
C1616	+1	+1	+1		-2	-3
K1086	+5	+8	+7		+2	+3
K1087	+7	+9	+11		+6	+3
K1088	+6	+8	+12		+2	+2
LN80-8542	+3	+7	+1		+2	+2
LN80-9359	-6	-5	-4		-6	-10
LN80-14949	+1	+3	+2		0	+2
LN80-14950	0	+1	-1		-3	+1
U76323	-2	-3	-3		-1	-2
U76360	-4	-4	-3		-3	-6
Date planted	5-22	5-19	5-11		6-2	6-11
Days to mature	127	124	129		126	114

PRELIMINARY TEST IIIB, 1982

Ky.	Ohio		S.D.	NE
Lexington	Charleston	Hoytville	Elk Point	Mead
		MATURITY (date)		
-7	-8	-7	-8	-5
9-12	9-21	9-16	10-13	10-5
+9	+9	+4	+6	+6
+2	-4	-3	-2	-1
+7	-1	-1	0	-1
-3	-1	-1	0	-2
+4	+4	+2	+2	+1
+4	+4	+2	+3	+3
+9	+2	-1	+2	+1
+9	+10	+4	+2	+5
+9	0	+2	0	+1
+13	+9	+4	+1	+4
+5	+3	+1	+1	+1
+11	+7	+1	-1	+2
+9	+8	+3	+1	+3
+9	+3	+1	+2	+3
+9	+8	+4	+2	+4
+9	+7	+1	+2	+4
+9	+9	+4	+3	+3
-3	-8	-4	+1	-4
+9	-7	-4	-3	-5
+4	0	-1	0	0
+7	-2	+1	-2	+4
+7	+4	0	+2	0
-7	-3	-6	-8	-7
+9	+3	-1	0	-1
+9	+9	+3	+1	+5
+11	+11	+5	+2	+7
+9	+11	+3	+2	+5
+7	+2	+2	+1	+2
-7	-8	-5	-8	-5
+7	-5	0	-1	+3
+2	-4	-2	0	+3
-7	-1	-1	-2	-2
-7	-6	-3	-2	-2
5-14	5-4	5-4	6-7	6-5
121	140	135	128	122

PRELIMINARY TEST IIIB, 1982

Strain	Mean 9 Tests	Ill. Urbana	Ind. Lafayette	Iowa Ottumwa	Iowa Stuart	Ks. Manhattan
		LODGING (score)				
Century (II)	2.0	2.3	1.5		2.7	2.0
Cumberland (III)	2.6	3.4	2.8		2.8	3.5
Union (IV)	2.8	4.1	2.3		3.9	3.3
A81-257013	2.9	2.5	2.8		3.9	3.8
A81-257025	2.6	2.3	2.8		4.1	3.0
A81-352008	2.5	3.3	2.0		2.8	2.5
A81-353004	3.5	4.9	2.5		4.1	4.0
A81-353005	2.9	3.7	2.0		4.2	3.8
A81-354007	3.2	2.8	3.0		3.9	3.8
A81-354009	3.0	3.8	2.0		3.3	3.5
A81-354015	3.7	3.5	3.3		4.5	3.8
A81-354017	3.8	5.0	3.5		4.4	4.0
A81-354025	2.2	1.9	1.5		3.5	3.0
A81-355003	3.4	4.3	3.0		4.5	4.0
A81-355005	3.1	4.7	2.0		3.8	3.5
A81-355012	3.2	2.7	2.8		4.2	4.0
A81-355020	3.5	4.7	2.3		3.9	3.8
A81-356022	3.0	4.0	2.0		4.2	4.0
C1599	2.1	2.5	1.5		2.5	2.3
C1600	2.5	2.0	1.8		2.9	3.8
C1601	2.1	1.8	1.5		2.7	2.3
C1604	2.6	2.9	2.0		3.1	3.3
C1606	2.8	3.9	1.5		3.0	4.0
C1610	2.5	3.5	1.5		2.4	3.8
C1611	2.3	2.2	1.5		3.7	3.0
C1616	2.8	2.9	1.8		3.2	3.5
K1086	2.9	3.3	2.3		3.7	3.3
K1087	2.7	4.3	1.5		3.4	2.8
K1088	3.0	3.8	2.4		3.4	3.8
LN80-8542	2.6	3.4	2.0		3.3	2.8
LN80-9359	3.0	3.9	2.8		4.3	2.8
LN80-14949	2.6	3.0	2.0		3.4	3.8
LN80-14950	2.5	2.8	2.3		2.7	3.0
U76323	2.5	3.7	1.5		3.1	2.8
U76360	2.1	3.0	1.5		2.5	2.0

PRELIMINARY TEST IIIB, 1982

Ky.	Ohio		S.D.	NE
Lexington	Charleston	Hoytville	Elk Point	Mead
		LODGING (score)		
1.3	1.8	1.6	4.0	1.0
1.3	3.8	2.2	2.0	1.5
1.7	3.0	2.1	2.0	2.8
2.3	3.0	2.1	3.0	2.5
1.3	2.5	2.0	4.0	1.8
1.5	2.3	2.3	4.0	1.5
2.5	3.5	4.0	4.0	2.3
1.5	2.8	3.2	3.0	2.0
3.0	3.8	2.7	4.0	1.8
2.0	2.5	3.2	3.0	3.3
2.7	4.0	4.4	4.0	2.8
3.0	4.3	4.2	3.0	2.8
1.5	2.0	1.8	2.0	2.3
3.0	4.0	2.8	3.0	2.0
2.7	2.8	3.0	3.0	2.8
2.7	3.3	3.0	3.0	2.8
2.7	2.8	4.6	3.0	3.8
2.5	2.8	2.9	3.0	3.0
1.7	2.0	1.5	3.0	1.8
1.3	2.3	2.8	4.0	2.0
1.3	1.5	1.9	4.0	1.5
1.7	2.0	3.1	3.0	2.0
1.5	2.0	3.0	4.0	2.5
1.7	2.5	1.8	3.0	2.0
1.3	3.0	1.6	3.0	1.5
2.0	2.5	3.8	3.0	2.5
2.3	3.0	1.5	4.0	2.5
2.5	2.3	1.6	3.0	3.0
2.3	2.3	2.2	4.0	2.5
1.7	2.5	3.1	3.0	1.3
1.3	3.3	2.4	4.0	2.0
1.3	2.3	2.9	3.0	2.0
1.5	2.5	3.0	3.0	2.0
1.0	2.0	1.8	4.0	2.5
1.0	2.8	1.8	3.0	1.3

PRELIMINARY TEST IIIB, 1982

Strain	Mean 9 Tests	Ill. Urbana	Ind. Lafayette	Iowa Ottumwa	Iowa Stuart	Ks. Manhattan
		PLANT HEIGHT (inches)				
Century (II)	38	40	38		44	38
Cumberland (III)	39	37	38		41	47
Union (IV)	48	45	50		48	47
A81-257013	46	50	45		50	55
A81-257025	40	40	38		46	44
A81-352008	42	44	44		45	46
A81-353004	47	48	46		50	48
A81-353005	48	52	46		48	52
A81-354007	44	47	44		48	51
A81-354009	45	44	45		44	46
A81-354015	42	44	41		46	39
A81-354017	45	45	44		51	45
A81-354025	43	42	45		47	46
A81-355003	43	43	43		48	44
A81-355005	45	45	45		43	48
A81-355012	44	44	43		50	48
A81-355020	46	46	48		50	50
A81-356022	47	47	47		50	57
C1599	47	48	44		50	50
C1600	45	47	45		49	48
C1601	43	46	41		45	44
C1604	45	45	44		47	47
C1606	39	44	37		42	42
C1610	47	49	46		47	51
C1611	36	37	32		44	43
C1616	46	52	48		44	43
K1086	42	41	42		47	42
K1087	45	45	45		46	46
K1088	46	45	46		46	46
LN80-8542	40	38	40		42	42
LN80-9359	33	35	32		36	35
LN80-14949	42	44	40		44	47
LN80-14950	42	42	39		43	49
U76323	41	40	38		42	41
U76360	39	39	40		42	43

PRELIMINARY TEST IIIB, 1982

Ky.	Ohio		S.D.	NE
Lexington	Charleston	Hoytville	Elk Point	Mead
		PLANT HEIGHT(inches)		
35	40	36	36	34
37	37	36	39	36
43	49	46	46	54
43	42	38	45	47
31	38	34	38	47
41	42	40	39	40
46	44	46	44	47
46	43	42	44	50
44	39	35	44	45
43	44	46	45	52
41	38	42	40	46
45	46	46	42	45
41	44	44	42	39
46	41	41	39	43
44	46	44	42	48
43	44	37	40	47
47	44	40	44	49
46	46	38	44	50
48	44	44	44	51
40	42	42	44	44
40	42	40	43	47
43	44	43	44	48
39	35	36	40	40
45	46	44	44	49
35	36	30	36	35
42	44	40	46	55
40	43	36	41	45
46	44	38	44	47
47	46	42	45	51
42	38	38	40	36
27	34	32	32	31
37	38	40	42	45
39	40	38	41	44
35	39	40	44	48
34	40	38	40	39

PRELIMINATY TEST IIIB, 1982

Strain	Mean 9 Tests	Ill. Urbana	Ind. Lafayette	Iowa Ottumwa	Iowa Stuart	Ks. Manhattan
		SEED QUALITY (score)				
Century (II)	1.9	2.5	1.5	1.9		2.0
Cumberland (III)	1.4	2.3	1.0	1.4		1.0
Union (IV)	1.6	1.8	1.0	1.7		1.0
A81-257013	2.0	2.8	1.0	2.0		2.0
A81-257025	1.6	1.5	1.5	1.4		1.0
A81-352008	1.6	2.3	1.5	1.4		1.0
A81-353004	1.7	2.5	1.5	1.4		1.0
A81-353005	1.7	2.3	1.0	1.3		2.0
A81-354007	1.8	3.0	1.5	2.0		1.0
A81-354009	1.6	2.0	1.0	1.8		1.0
A81-354015	1.7	2.8	1.0	1.6		1.0
A81-354017	1.7	2.5	1.0	2.0		1.0
A81-354025	2.0	3.0	2.0	1.5		2.0
A81-355005	1.7	2.3	1.5	2.2		1.0
A81-355005	1.6	2.3	1.0	1.8		1.0
A81-355012	1.8	2.0	2.5	2.3		1.0
A81-355020	1.7	2.0	1.0	1.9		1.0
A81-356022	1.9	2.5	2.0	1.9		1.0
C1599	1.7	2.3	1.5	1.4		1.0
C1600	2.9	4.0	3.5	3.0		3.0
C1601	2.1	3.3	1.5	2.1		2.0
C1604	2.0	2.3	1.5	1.9		2.0
C1606	1.5	1.8	1.5	1.4		1.0
C1610	1.6	2.0	1.0	1.5		1.0
C1611	1.8	2.0	1.0	1.3		2.0
C1616	2.3	3.3	2.5	1.9		2.0
K1086	1.8	2.0	1.5	1.4		1.0
K1087	1.7	1.5	1.0	1.7		2.0
K1088	1.7	2.5	1.0	1.7		1.0
LN80-8542	1.8	2.5	1.5	1.7		2.0
LN80-9359	1.9	2.3	1.5	1.8		2.0
LN80-14949	1.7	2.5	2.0	1.4		1.0
LN80-14950	1.7	1.8	2.0	1.6		2.0
U76323	1.6	2.0	1.0	1.6		2.0
U76360	1.6	2.5	1.0	1.4		2.0

PRELIMINARY TEST IIIB, 1982

Ky.	Ohio		S.D.	NE
Lexington	Charleston	Hoytville	Elk Point	Mead
		SEED QUALITY (score)		
2.0	2.0	1.8	2.0	1.0
1.0	1.5	1.5	2.0	1.0
2.0	1.0	1.7	3.0	1.3
2.0	1.5	2.4	3.0	1.0
3.0	1.5	1.9	2.0	1.0
2.0	1.5	1.7	2.0	1.0
3.0	1.0	2.3	2.0	1.0
2.0	1.5	2.0	2.0	1.0
2.0	1.5	2.4	2.0	1.0
3.0	1.5	1.4	2.0	1.0
2.0	1.5	1.8	3.0	1.0
2.0	1.5	1.3	3.0	1.0
3.0	1.5	2.4	2.0	1.0
2.0	1.5	1.5	2.0	1.0
2.0	1.5	1.7	2.0	1.0
2.0	1.5	2.1	2.0	1.0
2.0	1.5	1.7	3.0	1.0
3.0	1.5	1.8	2.0	1.0
2.0	1.5	1.5	3.0	1.0
2.0	2.5	3.0	3.0	1.8
3.0	1.5	2.4	2.0	1.3
2.0	2.0	2.0	3.0	1.0
1.0	2.0	1.4	2.0	1.0
2.0	1.5	1.7	3.0	1.0
2.0	1.5	1.7	3.0	1.3
3.0	2.5	2.0	2.0	1.3
3.0	1.0	2.0	3.0	1.0
3.0	1.5	1.6	2.0	1.0
2.0	1.0	1.8	3.0	1.0
2.0	1.0	1.9	3.0	1.0
2.0	1.5	2.3	3.0	1.0
2.0	1.5	1.8	2.0	1.0
2.0	1.5	1.8	2.0	1.0
1.0	2.0	1.7	2.0	1.0
1.0	1.0	1.6	3.0	1.0

PRELIMINARY TEST IIIB, 1982

Strain	Mean 9 Tests	Ill. Urbana	Ind. Lafayette	Iowa Ottumwa	Iowa Stuart	Ks. Manhattan
		SEED SIZE (g/100)				
Century (II)	18.3	16.3	18.9	19.4		19.3
Cumberland (III)	17.7	17.0	19.4	18.1		18.2
Union (IV)	19.1	19.2	20.7	20.4		18.8
A81-257013	17.9	19.2	19.8	18.7		17.7
A81-257025	15.4	14.6	17.3	15.6		16.7
A81-352008	17.0	16.2	18.3	17.7		16.7
A81-353004	15.9	16.4	18.0	16.8		16.2
A81-353005	14.6	14.7	16.1	15.4		16.0
A81-354007	17.1	17.6	18.4	16.9		16.9
A81-354009	15.4	14.5	17.0	16.2		16.6
A81-354015	16.6	17.2	18.2	17.0		16.4
A81-354017	15.8	13.7	17.7	16.4		16.9
A81-354025	17.2	17.1	19.3	17.7		18.4
A81-355003	15.8	16.6	16.6	16.2		16.4
A81-355005	16.6	15.0	18.6	17.5		17.0
A81-355012	18.0	18.9	20.3	17.4		18.1
A81-355020	19.1	19.3	20.8	20.4		19.7
A81-356022	19.1	20.7	21.4	20.0		18.8
C1599	16.1	17.4	18.2	16.5		15.4
C1600	19.5	18.9	22.3	19.2		19.2
C1601	17.5	16.7	18.7	18.5		15.9
C1604	15.9	16.6	17.2	15.7		15.3
C1606	17.1	16.5	18.1	18.4		17.5
C1610	15.7	16.0	16.5	15.8		16.9
C1611	14.3	13.9	15.1	14.8		14.9
C1616	18.6	18.6	20.1	18.3		20.8
K1086	17.3	17.9	18.4	17.8		17.3
K1087	16.8	16.6	18.9	16.2		18.2
K1088	17.5	17.6	18.6	18.3		17.9
LN80-8542	18.4	19.3	20.4	18.4		18.4
LN80-9359	15.0	14.0	17.1	14.0		15.3
LN80-14949	18.3	17.9	20.2	19.0		18.9
LN80-14950	17.5	16.8	19.2	18.0		17.8
U76323	18.2	17.2	20.3	17.4		18.6
U76360	17.2	16.3	18.8	17.8		17.9

PRELIMINARY TEST IIIB, 1982

Ky.	Ohio		S.D.	NE
Lexington	Charleston	Hoytville	Elk Point	Mead
		SEED SIZE (g/100)		
14.5	19.0	16.0	19.4	21.6
14.8	19.6	15.5	17.1	19.9
16.8	19.9	17.2	18.0	20.8
15.5	18.5	14.8	17.2	20.0
14.2	15.7	13.1	13.8	17.7
12.5	18.0	16.1	18.0	19.5
12.3	16.5	14.5	15.1	17.4
11.4	14.9	12.7	13.6	17.0
15.7	18.1	14.7	16.7	18.5
13.9	15.0	13.9	14.1	17.7
15.9	17.1	14.7	14.7	18.5
15.8	16.7	13.6	14.5	17.0
14.6	19.8	14.9	15.6	17.5
14.9	16.3	14.3	13.5	17.7
15.6	17.2	15.4	15.2	17.8
15.3	17.6	16.0	17.9	20.4
16.2	19.2	17.5	17.5	20.9
17.3	20.8	15.8	18.0	19.2
15.8	16.1	14.0	14.8	17.1
16.7	20.0	18.3	19.4	21.6
16.6	19.0	15.2	17.7	19.4
13.5	17.4	14.4	15.1	17.5
13.6	18.2	16.1	16.5	18.6
12.3	17.0	14.3	15.7	16.4
12.1	14.4	13.0	14.6	15.8
16.2	18.8	16.6	17.0	21.1
16.7	18.5	15.6	15.0	18.9
15.4	17.2	15.7	14.4	18.2
15.9	17.4	16.7	16.4	18.6
17.2	19.5	16.5	17.6	18.7
12.8	14.9	14.7	14.9	17.1
16.6	18.6	16.8	17.7	19.1
14.5	17.9	16.7	17.2	19.6
16.6	19.8	16.6	16.1	21.3
15.1	17.3	16.4	16.5	18.6

PRELIMINARY TEST IIIB, 1982

Strain	Mean 4 Tests	Ind. Lafayette	Iowa Ottumwa	Ks. Manhattan	Ohio Charleston
		PROTEIN (%)			
Century (II)	41.6	40.5	42.0	43.1	40.7
Cumberland (III)	39.6	39.1	39.8	39.8	39.6
Union (IV)	41.0	40.8	41.9	40.9	40.5
A81-257013	40.7	41.1	41.0	40.7	40.0
A81-257025	38.7	38.6	38.6	38.3	39.3
A81-352008	39.4	38.7	39.3	39.4	40.2
A81-353004	41.2	39.7	42.5	40.3	42.2
A81-353005	40.3	40.1	40.5	39.8	40.7
A81-354007	39.6	39.6	39.6	40.1	39.3
A81-354009	40.5	41.1	40.8	40.0	40.1
A81-354015	40.7	40.2	41.3	40.4	40.8
A81-354017	40.3	39.8	40.7	40.1	40.5
A81-354025	38.5	37.5	39.2	38.6	38.7
A81-355003	40.1	39.1	41.1	40.5	39.6
A81-355005	40.2	40.1	40.5	40.2	40.0
A81-355012	40.4	41.0	41.5	39.4	39.8
A81-355020	41.5	42.3	41.4	41.5	40.8
A81-356022	41.2	41.1	42.0	40.2	41.7
C1599	40.3	40.0	41.1	39.9	40.3
C1600	40.9	40.7	41.1	41.6	40.1
C1601	41.6	41.3	41.7	42.1	41.2
C1604	40.6	41.0	41.0	40.0	40.6
C1606	42.4	41.9	43.0	42.9	41.8
C1610	39.7	39.4	39.9	39.2	40.2
C1611	40.4	39.5	40.5	40.9	40.5
C1616	41.0	41.7	40.7	40.9	40.9
K1086	39.8	39.2	40.8	39.1	40.1
K1087	40.0	40.5	41.5	38.9	38.9
K1088	40.4	40.8	40.8	40.6	39.3
LN80-8542	41.3	41.0	41.5	40.9	41.8
LN80-9359	38.5	38.3	38.2	39.3	38.1
LN80-14949	40.0	40.4	39.8	40.4	39.4
LN80-14950	39.9	39.8	41.4	39.5	39.0
U76323	41.2	40.8	40.8	41.4	41.7
U76360	39.8	39.4	39.1	40.6	40.0

PRELIMINARY TEST IIIB, 1982

Strain	Mean 4 Tests	Ind. Lafayette	Iowa Ottumwa	Ks. Manhattan	Ohio Charleston
		OIL (%)			
Century (II)	17.8	18.2	17.9	17.5	17.8
Cumberland (III)	19.4	19.7	19.4	19.4	18.9
Union (IV)	17.8	17.8	17.2	18.5	17.6
A81-257013	18.4	18.3	18.3	19.1	18.1
A81-257025	19.2	18.9	19.3	20.7	18.1
A81-352008	18.8	18.6	19.0	19.9	17.8
A81-353004	17.3	17.7	16.7	18.5	16.4
A81-353005	17.5	17.4	17.5	18.1	17.1
A81-354007	17.8	18.0	17.6	18.0	17.5
A81-354009	17.3	17.0	17.7	17.5	16.9
A81-354015	17.8	18.2	17.5	18.6	17.1
A81-354017	18.0	18.1	17.7	18.4	17.7
A81-354025	19.2	19.0	18.8	20.4	18.7
A81-355003	18.8	19.1	17.8	19.2	19.1
A81-355005	17.7	17.4	17.6	17.8	17.9
A81-355012	17.9	17.4	17.1	18.3	18.9
A81-355020	17.6	16.9	17.7	18.0	18.0
A81-356022	17.4	17.4	17.1	18.1	17.2
C1599	18.2	18.0	18.0	19.0	17.6
C1600	17.6	18.0	17.5	17.9	16.8
C1601	17.4	17.3	17.7	17.6	17.2
C1604	17.4	17.4	16.9	18.0	17.3
C1606	16.9	17.4	16.5	16.8	16.8
C1610	18.5	18.6	18.0	19.2	18.2
C1611	17.0	17.3	17.2	16.9	16.6
C1616	18.6	18.2	18.7	19.0	18.4
K1086	18.2	18.2	17.7	19.0	17.7
K1087	18.1	17.8	17.2	18.8	18.6
K1088	18.0	17.4	17.8	18.5	18.1
LN80-8542	18.0	17.9	17.9	18.3	17.9
LN80-9359	19.1	18.6	19.6	19.4	18.7
LN80-14949	18.7	18.6	18.6	18.7	18.8
LN80-14950	18.5	18.5	17.6	19.4	18.6
U76323	18.8	19.0	19.1	18.8	18.5
U76360	19.4	19.3	19.8	20.3	18.4

UNIFORM TEST IV, 1982

Strain	Parentage	Previous Testing*	Generation Composited
1. Douglas	Williams x Calland	4	F_5
2. Franklin	L12 x Custer	3	F_3
3. Lawrence	Calland x Williams	4	F_6
4. Pixie	Williams x Ransom	5	F_5
5. Sparks	Williams x Calland	3	F_6
6. Union (IV)	Williams^5 x SL12 (Wayne *Rpm* *Rps*$_1$)	6	$9BC_4F_3$
7. Williams 82 (III)	Williams^7 x Kingwa	-	$4BC_6F_3$
8. A80-349012	L69U40-16-4 x A76-304020	P IV	F_4
9. C1598	Wells x CX463-3	P IV	F_5
10. HC76-4449	L72U-2567 x Essex	1	F_5
11. HC77-2204	Hodgson x V68-1034	P IV	F_5
12. HC78-261	L72U-2567 x Essex	P IV	F_5
13. HC78-279	L72U-2567 x Essex	P IV	F_5
14. HC78-349	L72U-2567 x Essex	P III A	F_5
15. HC78-350	L72U-2567 x Essex	P III A	F_5
16. HC78-353	L72U-2567 x Essex	P III A	F_5
17. HC78-356	L72U-2567 x Essex	P IV	F_5
18. K1058	Tracy x Bonus	1	F_5
19. K1075	Tracy x Bonus	P IV	F_5
20. K1076	Tracy x Williams	P IV	F_5
21. Ky78-1214	EMS treated Williams	1	F_3
22. L77-8039	Williams x Mitchell	P IV	F_5
23. L77-8290	Williams x Mitchell	P III B	F_5
24. L78-8138	L73-4124 x Essex	P IV	F_4
25. L78-8716	L71-3628 x Elf	P III A	F_4
26. LN-1067	Tracy x Williams	P IV	F_5

*Number of years in test or name of 1981 test.

UNIFORM TEST IV, 1982

Descriptive and Other Data

Strain	Descriptive		Code	Emergence Score Ames	Chlorosis Score Lamberton	Shattering Texas Lubbock	Shattering Manhattan 2 Weeks
Douglas	WTBr	SYB1	I	5	1	1.5	2
Franklin	PGBr	DYIb	I	4	2	3.0	1
Lawrence	PTT	DYB1	I	4	1	1.5	1
Pixie	PTT	SYB1	D	1	1	1.7	1
Sparks	WTT	DYB1	I	5	1	2.0	1
Union (IV)	WTT	SYB1	I	5	2	1.7	2
Williams 82 (III)	WTT	SYB1	I	4	2	1.5	1
A80-349012	PGT	DYG	I	5	1	2.9	2
C1598	PGBr	DYIb	I	5	1	1.7	2
HC76-4449	PTT	DYB1	D	1	1	2.2	1
HC77-2204	PGT	DYBf	D	1	1	2.0	1
HC78-261	PTT	DYB1	D	1	1	1.2	1
HC78-279	PTT	DYB1	D	1	1	1.2	1
HC78-349	PTT	DYB1	D	1	1	1.5	1
HC78-350	PTT	DYB1	D	1	1	1.5	1
HC78-353	PTT	DYB1	D	1	2	1.5	1
HC78-356	PGT	DYIb	D	2	1	1.0	1
K1068	PGT	DYIb	I	1	1	4.2	1
K1075	PGT	DYIb	I	2	2	3.0	1
K1076	WTT	SYB1	I	1	3	1.7	2
Ky78-1214	WTT	SYB1	I	5	2	1.7	1
L77-8039	WTT	DYB1	I	2	2	1.5	2
L77-8290	WTT	SYB1	I	5	1	3.0	3
L78-8138	PGBr	DYIB+Bf	D	4	2	2.9	2
L78-8716	PTT	DYBr	D	1	1	3.0	3
LN-1067	WTT	DYB1	D	1	2	2.7	1

UNIFORM TEST IV, 1982

Disease Data

Strain	PR1		PR4	PR Tolerance	BSR			
	Lafayette	Ames	Ames	Vickery	Ames Plant	Ames Stem	Lafayette Stem	Urbana Foliar
	a	a	a	n	n	n	n	n
	---- reaction ----			score	%	%	%	score
Douglas	R	R	S	3.5	100	100	20	4
Franklin	R	R	S	2.6	S	S	60	4
Lawrence	S	S	S	3.4	S	S	60	4-
Pixie	S	S	S	2.9	S	S	80	1
Sparks	R	R	S	3.2	S	S	80	2
Union (IV)	R	R	S	3.2	S	S	80	4-
Williams 82 (III)	R	R	R	2.5	100	87.5	60	3+
A80-349012	R	R	R	2.4	90	68.1	60	3
C1598	R	R	R	3.2	100	83.7	20	4
HC76-4449	S	S	S	2.6	100	93.1	0	2
HC77-2204	H	S	R	2.6	100	78.0	60	3+
HC78-261	S	S	S	3.1	100	100	20	1
HC78-279	S	S	S	3.1	100	100	20	1
HC78-349	S	S	R	3.0	100	100	80	1
HC78-350	S	S	S	3.1	100	100	40	1
HC78-353	S	S	S	3.1	50	35.3	60	1
HC78-356	S	S	H	3.0	60	38.8	60	2+
K1058	R	R	R	2.4	90	64.1	100	3
K1075	R	R	R	2.6	90	52.6	100	3
K1076	R	H	R	2.9	80	63.4	100	4
Ky78-1214	S	S	S	3.0	70	56.4	100	4-
L77-8039	H	S	S	3.1	100	69.3	100	3+
L77-8290	H	S	S	3.4	100	71.1	20	3+
L78-3138	H	S	S	2.8	100	81.3	60	3-
L78-8716	S	S	S	3.1	100	75.6	60	1
LN-1067	R	R	R	2.8	100	71.8	40	2

UNIFORM TEST IV, 1982

Disease Data

Strain	FE_2 Lafay-ette	DM	BB	BP	BTS	PS	PSB	SMV	Germ
		Urbana	Eldorado		Ames	Lafayette			
	a score	n score	n score	n score	a score	a %	n %	s score	%
Douglas	4	4	1.0	1	2	18	4	3E	96
Franklin	5	3	1.0	1	4	11	4	3M	91
Lawrence	3	1	1.0	3	3	34	2	3M	95
Pixie	3	1	1.7	1	2	19	1	5E	96
Sparks	5	3	1.0	1	3	45	15	5E	82
Union (IV)	5	1	1.0	1	4	31	6	5M	92
Williams 82 (III)	4	3	1.0	1	3	31	4	5E	94
A80-349012	4	2	1.0	3	2	73	11	5E	79
C1598	1	4-	1.0	1	3	16	5	5E	92
HC76-4449	2	1	2.5	2	2	17	0	5E	93
HC77-2204	3	2	2.3	1	2	5	0	2E	98
HC78-261	1	1	3.6	1	4	10	0	2E	96
HC78-279	1	1	3.2	1	2	29	0	4E	98
HC78-349	1	1	3.4	1	3	7	0	3E	94
HC78-350	1	1	3.3	1	3	11	1	3E	94
HC78-353	1	1	3.1	1	3	17	2	4E	92
HC78-356	1	1	3.0	1	3	29	1	3E	92
K1068	1	1	1.0	1	3	22	8	3E	85
K1075	5	1	1.0	1	3	18	10	5E	88
K1076	4	1	1.0	1	3	18	5	5E	88
Ky78-1214	5	1	1.0	1	2	8	1	5E	92
L77-8039	5	1	1.0	1	2	23	12	5E	85
L77-8290	4	1	1.0	1	3	18	5	5E	94
L78-8138	3	1	1.0	1	-	6	2	2E	95
L78-8716	1	2	2.6	1	3	21	1	5E	95
LN-1067	5	3	2.2	1	2	7	0	3E	96

UNIFORM TEST IV, 1982

Regional Summary

Strain	Yield	Rank	Maturity	Lodging	Plant Height	Seed Quality	Seed Size	Composition	
								Protein	Oil
No. of Tests	20	20	18	20	20	20	19	5	5
	bu/a	no.	date	score	in.	score	g/100	%	%
Douglas	47.8	3	+7	1.7	37	2.6	18.5	40.8	18.6
Franklin	41.2	23	+4	2.1	42	2.2	15.4	38.4	19.3
Lawrence	45.4	10	-1	1.3	35	2.2	17.6	41.3	18.2
Pixie	45.1	11	+1	1.3	22	1.6	16.8	41.1	19.5
Sparks	48.6	2	-1	2.1	41	2.3	17.3	39.1	19.0
Union (IV)	43.9	18	9-23*	1.9	39	1.9	17.7	39.9	19.5
Williams 82 (III)	46.7	4	-2	1.6	37	1.8	16.8	40.7	19.4
A80-349012	46.0	7	+4	2.0	38	2.5	16.5	40.6	18.2
C1598	44.2	15	+3	1.5	38	2.2	17.9	40.8	18.8
HC76-4449	45.9	8	+3	1.1	23	1.7	15.8	42.7	18.7
HC77-2204	49.6	1	0	1.4	24	1.4	13.6	38.9	19.1
HC78-261	41.0	24	0	1.2	19	2.0	17.5	42.3	20.1
HC78-279	42.3	20	-2	1.2	19	2.1	17.6	43.1	19.6
HC78-349	42.2	21	-3	1.2	19	2.0	17.7	42.6	19.8
HC78-350	41.0	24	-1	1.2	19	2.1	17.7	42.7	19.5
HC78-353	41.5	22	-2	1.2	20	2.0	17.7	41.1	20.3
HC78-356	41.0	24	-3	1.2	19	1.9	17.4	42.4	19.7
K1058	44.1	17	+3	2.1	36	2.1	18.6	41.9	17.9
K1075	45.8	9	+4	2.3	36	2.3	19.6	41.4	18.2
K1076	46.2	5	+6	2.0	38	1.9	17.1	42.8	17.0
Ky78-1214	44.2	15	+6	1.7	38	2.1	16.5	40.1	19.1
L77-8039	46.1	6	+4	1.7	37	2.0	16.3	40.9	18.5
L77-8290	44.8	13	-1	1.5	35	1.8	14.8	40.3	18.9
L78-8138	42.7	19	+5	1.3	29	1.6	13.7	39.8	19.3
L78-8716	44.9	12	-3	1.8	27	2.1	17.2	38.8	19.9
LN-1067	44.3	14	+4	1.8	26	1.8	16.6	42.4	17.0

*130 days after planting

UNIFORM TEST IV, 1982

1981-1982, 2-year mean

Strain	Yield	Rank	Maturity	Lodging	Plant Height	Seed Quality	Seed Size	Composition Protein	Composition Oil
No. of Tests	36 bu/a	36 no.	33 date	36 score	36 in.	36 score	35 g/100	9 %	9 %
Douglas	45.0	2	+6.1	1.7	35	2.6	18.2	40.8	19.2
Franklin	38.9	9	+2.6	2.1	41	2.2	14.9	38.4	19.8
Lawrence	43.4	7	-1.0	1.3	35	2.2	17.2	41.7	19.0
Pixie	43.2	8	+0.1	1.3	22	1.6	16.5	41.7	19.4
Sparks	46.9	1	-0.1	2.2	40	2.2	16.9	39.1	19.5
Union (IV)	43.8	5	9-24.8*	2.0	39	1.9	17.8	40.6	19.6
HC76-4449	44.0	3	+2.5	1.1	23	1.7	15.5	43.6	19.1
K1058	44.0	3	+1.6	2.1	36	2.1	18.3	42.2	18.5
Ky78-1214	43.5	6	+5.5	1.8	38	2.0	16.1	40.4	19.6

*126 days after planting

1979-1982, 4-year mean

No. of Tests	77	77	69	79	80	78	71	19	19
Douglas	42.6	2	+6.0	1.8	35	2.6	18.0	40.9	19.6
Franklin	37.0	6	+2.7	2.0	41	2.2	14.7	38.0	20.2
Lawrence	42.1	3	-0.3	1.4	35	2.3	17.3	41.7	19.3
Pixie	41.5	5	+0.3	1.4	21	1.7	16.4	41.6	19.6
Sparks	44.2	1	+0.5	2.1	39	2.2	16.7	39.7	19.8
Union IV	42.0	4	9-26.6*	2.0	39	2.0	17.7	41.5	19.6

*127 days after planting

Sparks had the highest 2-year and 4-year mean yield of any of the entries evaluated. The strain HC77-2204 was the highest yielding entry in the 1982 test. This strain had excellent lodging resistance and the best seed quality of any entry tested. The strains K1075 and K1076 are resistant to PR races 1-9 and 1, 3-9, respectively.

UNIFORM TEST IV, 1982

Strain	Mean 20 Tests	Illinois				Indiana	
		Belle-ville	Eldo-rado	Browns-town	Carbon-dale	Lafay-ette	Green-field
		YIELD (bu/a)					
Douglas	47.8	54.3	49.0	54.6	50.0	76.8	48.4
Franklin	41.2	49.2	42.4	43.4	40.9	63.7	40.6
Lawrence	45.4	50.9	47.1	50.5	39.0	69.7	49.6
Pixie	45.1	53.9	49.1	44.0	44.6	72.6	41.0
Sparks	48.6	54.6	44.4	47.3	48.1	78.8	56.9
Union (IV)	43.9	45.8	47.6	50.1	41.9	73.7	51.8
Williams 82 (III)	46.7	56.4	46.7	46.7	46.4	74.3	50.5
A80-349012	46.0	54.2	44.8	47.6	39.1	76.4	52.7
C1598	44.2	45.7	45.3	46.4	40.6	70.6	54.4
HC76-4449	45.9	49.2	48.7	42.4	45.9	70.3	54.6
HC77-2204	49.6	50.4	49.9	52.4	47.7	76.9	52.0
HC78-261	41.0	47.4	43.9	36.8	42.6	57.6	43.4
HC78-279	42.3	52.7	43.8	41.9	43.5	66.1	34.2
HC78-349	42.2	44.1	47.1	37.3	45.2	63.4	48.0
HC78-350	41.0	42.0	45.5	38.8	36.9	64.0	46.7
HC78-353	41.5	45.5	47.8	39.7	39.5	62.8	42.1
HC78-356	41.0	47.8	42.7	34.4	42.0	63.4	43.0
K1058	44.1	55.1	52.1	46.6	44.0	73.1	46.5
K1075	45.8	58.3	46.8	52.6	44.8	69.2	52.0
K1076	46.2	56.9	54.3	46.0	44.7	68.3	49.5
Ky78-1214	44.2	51.2	51.7	48.9	46.8	70.7	51.6
L77-8039	46.1	53.3	50.5	47.5	45.5	75.9	44.4
L77-8290	44.8	47.1	52.0	50.3	46.3	74.4	37.1
L78-8138	42.7	50.4	49.3	53.4	50.2	67.3	46.9
L78-8716	44.9	48.0	42.7	50.4	47.3	75.7	44.6
LN-1067	44.3	50.3	50.2	43.4	46.5	71.5	47.5
C.V. (%)		5.5	6.9	8.2	8.9	5.5	14.1
L.S.D. (5%)		5.7	5.4	6.2	6.4	6.8	11.0
Row sp. (in.)		30	30	30	30	24	30
Rows/plot		4	4	4	4	4	3
Reps		2	3	3	3	3	3

UNIFORM TEST IV, 1982

Ind.	Kansas			Ky.	Md.	Missouri	
Sulli-van	Man-hattan	Pow-hattan	Ottawa	Lexing-ton	Queens-ville	Loam Portage	Clay ville
			YIELD (bu/a)				
50.1	50.4	41.3	41.1	43.7	50.7	41.6	17.3
43.7	46.2	35.5	34.7	34.9	39.7	45.3	13.4
46.9	48.1	37.8	37.2	45.6	45.0	42.8	17.5
44.2	55.6	42.7	39.6	37.3	42.6	28.9	14.5
51.1	51.9	40.1	41.7	49.0	49.2	42.7	16.5
47.3	49.7	36.4	39.7	42.0	39.3	39.7	16.8
58.6	48.6	40.6	40.8	42.4	47.1	39.4	16.4
37.9	48.4	42.3	41.7	45.1	49.7	33.3	16.6
43.8	45.2	38.6	37.7	40.0	47.7	39.5	15.2
45.5	50.6	39.5	39.9	40.1	50.0	31.5	19.2
44.5	57.8	43.7	42.2	38.5	49.7	45.5	23.6
33.0	51.5	36.2	36.9	39.3	38.0	27.3	11.3
36.1	51.2	37.3	36.1	41.2	39.6	33.6	12.2
44.1	50.2	37.1	37.1	40.2	41.2	21.6	10.3
37.2	50.9	32.9	34.2	31.2	42.4	25.5	9.5
38.0	50.8	36.4	33.5	41.8	39.3	27.1	13.9
40.2	52.4	37.4	36.3	36.0	39.6	25.0	8.5
44.7	47.4	36.6	38.4	40.4	41.9	38.2	23.9
48.2	46.7	40.1	42.3	47.8	42.9	38.0	23.9
50.1	47.2	37.1	42.9	39.4	39.6	50.1	20.8
52.5	45.2	38.2	40.3	42.4	40.0	41.7	15.6
57.9	46.9	40.9	39.0	42.1	42.1	41.0	17.8
50.4	46.8	39.1	39.4	32.6	44.4	36.1	15.0
44.1	46.8	36.0	35.3	39.3	39.3	35.3	15.8
43.8	50.7	41.6	38.0	33.5	41.7	35.7	15.7
39.3	50.1	36.5	38.8	42.5	41.9	30.5	14.7
15.3	6.4	5.5	6.8	13.8	12.5	15.0	26.0
11.3	5.2	3.5	4.3	7.6	NS	8.9	6.9
28	30	30	30	30	30	30	30
3	4	4	4	4	4	4	4
3	3	3	3	3	3	3	3

UNIFORM TEST IV, 1982

Strain	NE	NJ	Ohio		Pa.	Texas
	Lincoln	Adelphia	Ripley	Charleston	Landisville	Lubbock
	YIELD (bu/a)					
Douglas	49.3	36.6	44.8	63.0	36.6	55.7
Franklin	37.6	31.1	43.4	55.8	34.1	49.3
Lawrence	51.3	39.3	49.8	64.0	28.1	48.6
Pixie	57.4	39.6	60.0	62.6	34.5	42.1
Sparks	51.4	39.9	51.0	64.9	38.2	53.3
Union (IV)	44.1	37.3	46.8	58.5	27.5	41.6
Williams 82 (III)	50.4	39.3	47.1	59.8	35.6	47.1
A80-349012	44.2	39.2	48.8	65.5	36.6	56.2
C1598	45.7	35.5	42.5	61.5	33.7	54.6
HC78-4449	59.3	42.6	49.5	63.6	34.7	40.0
HC77-2204	58.9	42.3	55.0	64.8	42.5	53.1
HC78-261	57.9	40.2	51.2	57.5	32.8	35.4
HC78-279	57.8	43.3	49.0	57.4	34.4	34.9
HC78-349	61.4	42.1	47.6	60.1	31.2	34.8
HC78-350	59.4	39.9	53.8	59.4	33.1	35.8
HC78-353	58.5	41.1	45.6	54.3	36.1	35.8
HC78-356	56.8	40.3	44.1	58.4	35.9	35.3
K1058	46.7	33.6	35.6	59.7	35.0	41.7
K1075	45.1	36.9	43.6	61.4	32.7	42.3
K1076	46.5	38.8	47.6	62.2	38.1	44.1
Ky78-1214	36.7	34.3	35.8	56.3	31.3	52.3
L77-8039	48.0	33.5	39.8	64.6	35.2	56.2
L77-8290	52.2	38.3	50.2	64.7	29.6	50.1
L78-8138	53.9	25.0	34.3	54.7	29.6	47.9
L78-8716	54.3	34.3	50.1	65.0	36.2	48.0
LN-1067	46.2	38.6	50.2	61.1	38.2	47.2
C.V. (%)	6.8	9.0	4.9	5.6	16.3	6.77
L.S.D. (5%)	5.6	6.8	8.6	5.6	NS	5.05
Row sp. (in.)	30	30	30	30	24	40
Rows/plot	4	3	4	4	4	4
Reps	3	4	3	3	3	3

UNIFORM TEST IV, 1982

Strain	Mean 20 Tests	Illinois				Indiana	
		Belle-ville	Eldo-rado	Browns-town	Carbon-dale	Lafay-ette	Green-field
		YIELD RANK					
Douglas	3	6	10	1	2	3	12
Franklin	23	16	26	18	21	22	24
Lawrence	10	12	14	8	15	16	10
Pixie	11	8	9	17	15	11	23
Sparks	2	5	21	12	3	1	1
Union (IV)	18	22	13	7	20	9	7
Williams 82 (III)	4	3	17	13	8	8	9
A80-349012	7	7	20	10	24	4	4
C1598	15	23	19	15	22	14	3
HC76-4449	8	16	11	20	10	15	2
HC77-2204	1	13	7	4	4	2	5
HC78-261	24	20	22	25	18	26	20
HC78-279	20	10	23	21	17	20	26
HC78-349	21	25	14	24	12	23	13
HC78-350	24	26	18	23	26	21	16
HC78-353	22	24	12	22	23	25	22
HC78-356	24	19	24	26	19	24	21
K1058	17	4	2	14	16	10	17
K1075	9	1	16	3	13	17	6
K1076	5	2	1	16	14	18	11
Ky78-1214	15	11	4	9	6	13	8
L77-8039	6	9	5	11	11	5	19
L77-8290	13	21	3	6	9	7	25
L78-8138	19	13	8	2	1	19	15
L78-8716	12	18	24	5	5	6	18
LN-1067	14	15	6	18	7	12	14

UNIFORM TEST IV, 1982

Strain	Ind.	Kansas			Ky.	Md.	Missouri	
	Sulli-van	Man-hattan	Pow-hattan	Ottawa	Lexing-ton	Queens-town	Loam Portageville	Clay
			YIELD RANK					
Douglas	6	11	5	6	5	1	7	8
Franklin	19	24	25	24	23	19	3	21
Lawrence	10	17	14	18	3	8	4	7
Pixie	14	2	2	11	21	11	21	19
Sparks	4	4	8	4	1	5	5	11
Union (IV)	9	14	21	10	10	24	9	9
Williams 82 (III)	1	15	7	7	8	7	11	12
A80-349012	23	16	3	4	4	3	18	10
C1598	18	25	12	17	16	6	10	16
HC78-4449	11	10	10	9	15	2	19	5
HC77-2204	13	1	1	3	20	3	2	3
HC78-261	26	5	23	20	18	26	22	23
HC78-279	25	6	16	22	12	21	17	22
HC78-349	15	12	17	19	14	17	26	24
HC78-350	24	7	26	25	26	12	24	25
HC78-353	22	8	21	26	11	24	23	20
HC78-356	20	3	15	21	22	21	25	26
K1058	12	18	19	15	13	14	12	1
K1075	8	23	8	2	2	10	13	1
K1076	7	19	17	1	17	21	1	4
Ky78-1214	3	25	13	8	7	18	6	15
L77-8039	2	20	6	13	9	13	8	6
L77-8290	5	21	11	12	25	9	14	17
L78-8138	16	21	24	23	19	24	16	13
L78-8716	17	9	4	16	24	16	15	14
LN-1067	21	13	20	14	6	14	20	18

UNIFORM TEST IV, 1982

NE	NJ	Ohio		Pa.	Texas
Lincoln	Adelphia	Ripley	Charles-ton	Landis-ville	Lubbock
		YIELD RANK			
16	19	18	9	5	3
25	25	21	24	16	9
14	11	9	7	25	10
8	10	1	10	14	11
13	8	5	3	2	5
24	17	16	19	26	19
15	11	15	16	10	14
23	13	12	1	5	2
21	20	22	12	17	4
3	2	10	8	13	20
4	3	2	4	1	6
6	7	4	21	19	24
7	1	11	22	15	25
1	4	14	15	22	26
2	8	3	18	18	22
5	5	17	26	8	21
19	6	19	20	9	23
18	23	25	17	12	18
22	18	20	13	20	17
19	14	13	11	4	15
26	21	24	23	21	7
17	24	23	6	11	1
12	16	6	5	23	8
11	26	26	25	23	12
10	22	8	2	7	11
20	15	6	14	2	13

UNIFORM TEST IV, 1982

Strain	Mean 18 Tests	Illinois				Indiana			Ks.
		Belle-ville	Eldo-rado	Browns-town	Carbon-dale	Lafay-ette	Green-field	Sulli-van	Man-hattan
				MATURITY (date)					
Douglas	+7	+8	+11	+7	+4	+7	+6	+9	+6
Franklin	+4	+3	+7	+4	+3	+4	+5	+8	+3
Lawrence	-1	-2	0	-3	0	-3	0	+1	-2
Pixie	+1	+2	0	0	-1	+2	+2	+10	+2
Sparks	-1	-2	-3	-5	-1	-4	0	0	0
Union (IV)	9-23	9-21	9-9	9-16	9-16	9-27	9-26	9-21	10-6
Williams 82 (III)	-2	-3	-3	-3	-6	-1	-4	0	-1
A80-349012	+4	0	-3	+4	+4	+4	+5	+9	+2
C1598	+3	+2	+6	+5	+2	+3	+2	+4	+2
HC76-4449	+3	+2	+5	+4	+3	+5	-3	+9	+1
HC77-2204	0	+1	-3	-2	-3	+2	0	0	-1
HC78-261	0	0	+1	-4	-2	-2	-2	+4	0
HC78-279	-2	-3	-3	-5	-6	-2	-4	+1	0
HC78-349	-3	-4	-3	-5	-4	-3	-5	+3	-1
HC78-350	-1	-3	+4	-4	-3	-3	-5	+1	0
HC78-353	-2	-3	-2	-4	-7	-3	-6	+2	0
HC78-356	-3	-5	-3	-6	-9	-3	-2	+2	0
K1058	+3	+2	+6	-6	+1	+2	+2	+8	+1
K1075	+4	+6	+10	+6	+5	+4	-7	+9	+2
K1076	+6	+7	+8	+8	+4	+5	+5	+10	+4
Ky78-1214	+6	+6	+10	+9	+6	+6	+6	+8	+4
L77-8039	+4	+3	+6	+6	+3	+5	+5	+9	+3
L77-8290	-1	-2	-2	-1	-2	-3	-2	+2	0
L78-8138	+5	+3	+8	+5	+2	+8	+6	+9	-1
L78-8716	-3	-6	-7	-5	-10	0	0	0	-4
LN-1067	+4	+2	+9	+2	+2	+3	+2	+8	+3
Date planted	5-20	5-20	5-14	5-11	5-13	5-11	5-13	5-13	6-11
Days to mature	130	124	118	128	126	139	136	131	148

UNIFORM TEST IV, 1982

Kansas		Ky.	Md.	Missouri		NE	NJ	Ohio		Pa.	Texas
Pow-hattan	Ottawa	Lexing-ton	Queens-town	Loam Portage	Clay ville	Lin-coln	Adel-phia	Ripley	Charles-ton	Landis-ville	Lubbock
					MATURITY (date)						
		+14	+7	+1	+2	+6	+5	+5	+4	+8	+7
		+16	-2	+3	-1	+1	+2	+1	+1	+3	+2
		+2	-4	0	-1	-2	0	-5	-3	+3	+1
		-3	0	0	0	0	+1	-1	0	+3	+3
		+1	-2	+1	-1	-1	0	-3	-1	+3	+6
		9-19	9-29	10-2	9-11	10-16	10-2	9-16	9-29	10-8	9-24
		-1	-4	0	-1	-2	-3	-3	-1	-4	-3
		+15	+3	+2	-1	+3	+6	+2	+2	+8	+4
		+10	+3	+1	-1	+2	+2	0	+2	+5	+2
		+4	+4	+3	+1	0	+4	+4	+4	+5	+5
		-3	0	0	+1	-1	+1	+1	+1	+5	+9
		+2	-2	+2	-1	-1	0	-2	-5	-4	+8
		-1	-1	+2	-1	0	0	-4	-6	-7	+4
		-7	-5	+1	-1	-2	-1	-3	-8	-4	+4
		+1	-1	+1	-1	-1	-1	-3	-6	-4	+5
		-1	-2	+2	-1	-1	-2	-4	-9	-7	+5
		-7	-4	+2	-1	-1	-1	-3	-10	-7	+5
		+14	-3	+1	0	0	+3	0	+3	+3	-7
		+15	+1	+1	0	+3	+6	+3	+4	+5	-6
		+12	+3	+10	+2	+3	+3	+5	+3	+5	+2
		+13	+7	+3	+1	+4	+7	+4	+4	+5	+5
		+8	+2	0	0	+2	+2	+4	+2	+3	+6
		+3	-2	0	-4	-4	-2	-3	-2	-2	+2
		+8	+3	+1	+2	0	+8	+5	+8	+8	+12
		-7	-7	0	-1	+1	-5	-1	0	-2	+2
		+13	+4	+2	+13	+1	+2	+1	0	+5	+3
		5-14	6-3	5-11	5-6	6-2	6-7	5-4	5-4	6-9	6-3
		128	115	144	128	136	117	135	148	121	113

UNIFORM TEST IV, 1982

Strain	Mean 20 Tests	Illinois				Indiana			Ks.
		Belle-ville	Eldo-rado	Browns-town	Carbon-dale	Lafay-ette	Green-field	Sulli-van	Man-hattan
		LODGING (score)							
Douglas	1.7	1.4	1.7	3.0	1.3	2.0	1.2	1.8	3.0
Franklin	2.1	2.1	2.0	2.7	1.3	1.8	1.5	2.2	3.2
Lawrence	1.3	1.2	1.3	2.2	1.0	1.3	1.2	1.5	1.7
Pixie	1.3	1.2	1.4	1.5	1.0	1.0	1.0	1.2	2.3
Sparks	2.1	2.7	2.1	2.7	1.2	2.2	1.8	3.7	3.0
Union (IV)	1.9	1.6	1.8	2.5	1.2	2.0	1.5	3.3	2.8
Williams 82 (III)	1.6	1.3	1.4	2.7	1.0	2.0	1.7	2.7	2.2
A80-349012	2.0	2.4	1.5	3.2	1.2	2.2	1.5	2.5	2.5
C1598	1.5	1.2	1.7	2.8	1.0	1.8	1.0	2.2	2.7
HC78-4449	1.1	1.0	1.0	1.5	1.0	1.0	1.0	1.2	2.0
HC77-2204	1.4	1.1	1.2	1.5	1.0	1.5	1.0	1.7	2.2
HC78-261	1.2	1.0	1.1	1.5	1.0	1.0	1.0	1.3	2.7
HC78-279	1.2	1.1	1.1	1.5	1.0	1.0	1.0	1.0	2.3
HC78-349	1.2	1.0	1.1	1.5	1.0	1.0	1.0	1.0	2.5
HC78-350	1.2	1.0	1.0	1.5	1.0	1.0	1.0	1.0	2.7
HC78-353	1.2	1.0	1.1	1.5	1.0	1.0	1.0	1.0	2.5
HC78-356	1.2	1.0	1.1	1.5	1.0	1.0	1.0	1.0	2.3
K1058	2.1	2.7	2.1	2.8	1.8	2.2	1.8	2.0	3.5
K1075	2.3	2.7	2.0	2.8	1.6	2.0	1.7	2.2	3.2
K1076	2.0	1.7	1.9	4.3	1.5	2.0	1.7	1.8	3.0
Ky78-1214	1.7	1.5	1.5	2.7	1.2	2.0	1.0	3.2	2.0
L77-8039	1.7	1.6	1.5	3.3	1.5	2.0	1.3	1.8	1.7
L77-8290	1.5	1.3	1.4	2.0	1.0	1.5	1.2	1.8	1.7
L78-8138	1.3	1.3	1.1	1.7	1.0	2.0	1.0	1.2	1.0
L78-8716	1.8	1.3	1.2	1.8	1.0	2.0	1.3	1.3	2.0
LN-1067	1.8	1.4	1.6	2.0	1.0	1.5	1.3	1.5	2.5

UNIFORM TEST IV, 1982

Kansas		Ky.	Md.	Missouri		NE	NJ	Ohio		Pa.	Texas
Pow-hattan	Ottawa	Lexing-ton	Queens-town	Loam Portage	Clay ville	Lin-coln	Adel-phia	Ripley	Charles-ton	Landis-ville	Lubbock
LODGING (score)											
1.3	1.0	1.7	2.5	1.5	1.5	3.0	1.0	1.3	2.0	1.0	1.5
2.7	1.3	2.8	2.7	2.0	1.0	3.7	1.0	2.3	2.2	1.0	1.9
1.3	1.0	1.3	1.7	1.0	1.0	1.5	1.0	1.0	1.7	1.0	2.0
2.0	1.0	1.0	1.3	1.0	1.0	2.7	1.0	1.0	1.8	1.0	1.2
2.5	1.3	2.0	2.3	1.5	1.0	3.5	2.0	2.5	3.0	1.0	2.5
2.2	1.3	1.5	2.5	1.5	1.0	3.3	1.0	1.7	2.5	1.0	2.0
1.7	1.0	1.5	1.8	1.0	1.0	1.8	1.0	1.2	2.7	1.0	1.7
1.7	1.3	2.2	2.5	1.0	1.0	3.3	2.0	3.0	2.7	1.0	2.2
1.3	1.0	1.5	2.5	1.0	1.0	1.2	1.0	1.3	1.5	1.0	1.5
1.0	1.0	1.3	1.2	1.0	1.0	1.2	1.0	1.0	1.3	1.0	1.0
1.3	1.0	1.2	1.3	1.0	1.0	2.7	2.0	1.0	1.7	1.0	1.2
1.0	1.0	1.2	1.2	1.0	1.0	1.8	1.0	1.0	1.2	1.0	1.0
1.0	1.0	1.0	1.2	1.0	1.0	1.8	1.0	1.0	1.3	1.0	1.0
1.3	1.0	1.0	1.3	1.0	1.0	2.0	1.0	1.0	1.5	1.0	1.0
1.0	1.7	1.0	1.3	1.0	1.0	2.0	1.0	1.0	1.5	1.0	1.0
1.0	1.0	1.0	1.3	1.0	1.0	1.8	1.0	1.0	1.5	1.0	1.0
1.0	1.0	1.0	1.2	1.0	1.0	2.0	1.0	1.0	1.3	1.0	1.0
2.5	1.7	2.5	2.3	1.5	1.0	3.5	2.0	3.2	2.3	1.0	2.5
2.5	1.3	3.1	2.3	1.5	1.0	3.8	3.0	3.2	2.2	1.0	3.0
2.5	1.3	1.8	2.0	2.0	1.0	2.3	2.0	1.5	2.8	1.0	2.0
2.0	1.0	1.7	2.2	2.0	1.0	2.8	2.0	1.2	2.2	1.0	1.7
1.7	1.0	1.6	2.0	1.0	1.0	2.5	2.0	1.2	1.8	1.0	1.7
1.7	1.0	1.5	2.0	1.0	1.0	2.2	1.0	1.0	1.7	1.0	1.7
1.0	1.0	1.7	1.3	1.0	1.0	1.7	1.0	1.3	2.0	1.0	1.0
2.0	1.7	1.7	2.2	1.0	1.0	3.5	2.0	1.5	3.3	1.0	1.9
2.5	1.0	1.8	2.2	1.0	1.0	3.0	3.0	1.3	1.7	1.0	2.0

UNIFORM TEST IV, 1982

Strain	Mean 20 Tests	Illinois				Indiana			Ks.
		Belle-ville	Eldo-rado	Browns-town	Carbon-dale	Lafay-ette	Green-field	Sulli-van	Man-hattan
		PLANT HEIGHT (inches)							
Douglas	37	36	44	44	39	40	35	40	39
Franklin	42	46	47	42	48	48	41	47	51
Lawrence	35	36	42	38	36	40	29	39	39
Pixie	22	22	20	19	20	24	19	18	28
Sparks	41	46	43	40	46	49	42	44	50
Union (IV)	39	36	46	43	37	47	41	46	43
Williams 82 (III)	37	40	45	43	38	40	36	41	42
A80-349012	38	41	44	40	43	41	37	42	43
C1598	38	34	47	44	37	44	37	44	44
HC78-4449	23	24	21	24	22	26	25	22	25
HC77-2204	24	24	21	27	22	31	28	26	27
HC78-261	19	19	18	19	18	21	19	16	23
HC78-279	19	20	19	18	17	22	16	17	22
HC78-349	19	19	19	18	18	20	20	17	21
HC78-350	19	19	18	19	16	21	17	17	21
HC78-353	20	19	19	19	17	21	21	17	22
HC78-356	19	20	19	18	15	24	20	17	28
K1058	36	40	41	36	39	40	36	36	40
K1075	36	42	42	44	39	40	35	33	41
K1076	38	38	45	43	42	42	36	39	44
Ky78-1214	38	35	48	46	41	43	33	44	45
L77-8039	37	38	43	41	40	42	33	41	40
L77-8290	35	36	44	43	37	39	32	39	40
L78-8138	29	33	29	32	28	36	29	34	34
L78-8716	27	26	23	26	24	33	27	27	32
LN-1067	26	26	23	23	27	27	25	20	34

UNIFORM TEST IV, 1982

Kansas		Ky.	Md.	Missouri		NE	NJ	Ohio		Pa.	Texas
Pow-hattan	Ottawa	Lexing-ton	Queens-town	Loam Portage	Clay ville	Lin-coln	Adel-phia	Ripley	Charles-ton	Landis-ville	Lubbock
PLANT HEIGHT (inches)											
38	38	39	35	37	20	43	30	41	41	23	31
43	41	45	39	45	23	54	37	44	43	22	35
38	40	36	32	39	21	42	28	33	38	25	28
24	29	21	21	17	13	26	22	24	26	23	15
42	44	46	36	34	26	51	38	37	44	25	32
40	36	44	35	36	24	48	33	41	42	25	32
35	31	38	36	38	28	42	31	37	43	22	29
37	40	40	39	41	19	45	33	39	40	23	31
38	37	41	39	42	26	45	31	42	40	24	34
25	30	25	23	13	16	27	24	28	29	23	16
26	22	28	23	15	15	30	26	27	29	21	17
22	19	20	17	15	11	23	19	23	23	23	12
22	18	19	19	15	12	23	20	24	23	23	12
21	26	19	18	16	12	23	20	23	22	23	12
22	26	17	19	13	13	23	19	22	23	23	12
21	26	21	18	29	14	23	20	22	23	24	13
23	18	19	17	16	11	24	19	21	23	23	12
33	40	38	34	33	24	43	32	38	40	22	27
36	35	41	31	29	26	42	34	39	42	23	28
41	41	36	32	34	28	45	31	39	41	25	30
40	35	42	35	40	28	41	30	39	39	23	31
35	37	39	33	40	24	43	29	38	41	26	32
35	37	33	33	27	21	43	30	35	42	24	29
29	29	33	23	20	16	34	20	39	38	21	21
26	27	28	25	25	18	33	27	30	33	24	22
29	29	30	27	16	15	34	29	29	29	24	19

UNIFORM TEST IV, 1983

Strain	Mean 20 Tests	Illinois				Indiana			Ks.
		Belle-ville	Eldo-rado	Browns-town	Carbon-dale	Lafay-ette	Green-field	Sulli-van	Man-hattan
		SEED QUALITY (score)							
Douglas	2.6	3.0	3.5	2.5	3.0	2.0	2.5	2.0	2.5
Franklin	2.2	2.3	3.2	1.3	3.0	2.0	1.5	2.0	1.0
Lawrence	2.2	2.5	2.5	1.4	3.0	1.5	1.5	2.0	1.0
Pixie	1.6	1.3	1.8	1.3	1.0	1.0	1.0	1.0	2.0
Sparks	2.3	2.5	2.7	1.6	3.0	1.0	1.5	2.0	1.0
Union (IV)	1.9	2.3	2.7	1.3	3.0	1.0	1.0	1.0	1.5
Williams 82 (III)	1.8	1.3	2.7	1.2	2.0	1.5	1.0	1.5	1.0
A80-349012	2.5	2.8	3.5	1.7	3.5	1.5	1.0	1.5	2.5
C1598	2.2	2.8	3.5	1.4	2.5	1.5	1.0	1.5	1.0
HC78-4449	1.7	1.8	1.8	1.5	1.5	1.0	1.0	1.5	1.0
HC77-2204	1.4	1.3	1.2	1.3	1.0	1.0	1.0	1.0	1.0
HC78-261	2.0	2.3	2.2	1.2	2.0	1.0	1.0	1.0	1.5
HC78-279	2.1	2.5	2.7	1.3	2.0	1.0	1.0	1.0	1.0
HC78-349	2.0	2.5	2.3	1.4	2.0	1.0	1.0	1.0	2.0
HC78-350	2.1	2.5	2.3	1.3	2.5	1.0	1.0	1.0	1.5
HC78-353	2.0	2.3	2.2	1.5	2.0	1.0	1.0	1.0	1.5
HC78-356	1.9	3.0	2.5	1.4	2.0	1.0	1.5	1.0	1.0
K1058	2.1	2.8	3.2	1.3	2.5	1.5	1.5	2.0	1.0
K1075	2.3	2.5	3.7	1.4	3.5	1.5	1.5	2.0	1.5
K1076	1.9	1.8	3.3	1.2	2.0	1.0	1.5	1.0	1.5
Ky78-1214	2.1	2.5	3.2	1.7	2.0	1.5	1.5	1.0	1.0
L77-8039	2.0	1.5	2.8	1.5	2.5	1.0	1.5	1.5	1.0
L77-8290	1.8	1.5	2.2	1.3	2.0	1.0	1.5	1.0	1.0
L78-8138	1.6	1.8	2.2	1.3	2.5	1.0	1.0	1.0	1.0
L78-8716	2.1	2.3	2.2	1.7	2.0	1.5	2.0	1.5	1.5
LN-1067	1.8	2.0	2.2	1.6	2.5	1.0	1.5	1.5	1.0

UNIFORM TEST IV, 1982

Kansas		Ky.	Md.	Missouri		NE	NJ	Ohio		Pa.	Texas
Pow-hattan	Ottawa	Lexing-ton	Queens-town	Loam Portage	Clay ville	Lin-coln	Adel-phia	Ripley	Charles-ton	Landis-ville	Lubbock
SEED QUALITY (score)											
2.0	1.5	2.0	3.0	4.0	3.5	2.0	2.0	2.0	1.5	3.0	4.2
2.0	3.0	3.0	2.8	3.5	3.5	2.0	1.0	2.0	1.5	1.5	2.5
2.0	1.5	2.0	3.2	4.0	3.0	2.2	1.2	2.0	1.5	2.5	3.7
1.5	1.5	1.0	2.2	2.5	3.0	1.5	1.0	1.0	1.0	2.5	3.0
2.0	1.5	3.0	2.3	3.5	4.0	2.0	1.0	2.5	1.5	2.5	4.0
2.0	1.0	1.0	2.3	3.0	4.0	2.0	1.0	1.5	1.5	2.0	2.5
2.0	2.0	1.0	1.5	3.0	3.5	2.0	1.0	2.0	1.0	2.0	2.0
3.0	1.5	3.0	2.8	3.5	4.0	2.7	1.2	2.0	2.0	2.5	3.0
2.0	1.5	2.0	2.8	4.0	3.0	2.2	1.2	2.0	1.5	2.5	3.5
1.0	2.0	2.0	1.5	2.5	3.5	1.5	1.0	1.5	1.5	2.0	3.2
1.5	1.5	1.0	1.8	2.5	2.5	1.7	1.0	1.0	1.0	1.5	2.0
2.0	1.0	2.0	2.2	4.0	4.0	1.6	1.0	1.5	1.5	2.0	4.3
1.5	1.5	3.0	2.5	4.5	4.0	1.8	1.0	1.5	1.5	2.0	4.0
2.0	2.0	1.0	2.5	4.5	4.0	1.8	1.0	1.5	1.5	2.0	3.8
2.0	2.0	2.0	2.3	4.5	4.5	1.7	1.0	1.5	1.5	2.0	4.2
1.0	2.0	2.0	2.2	4.0	4.0	2.0	1.0	1.5	1.5	2.0	4.0
2.0	1.5	2.0	2.8	4.0	4.5	2.3	1.0	1.5	1.5	2.5	3.5
2.0	1.5	2.0	3.3	3.0	3.0	1.2	1.0	1.5	2.5	2.0	2.5
2.0	1.5	3.0	3.2	3.0	3.5	2.0	1.5	1.5	2.0	2.5	2.5
1.5	2.0	3.0	2.0	2.5	3.0	1.5	1.0	1.0	1.5	2.5	2.5
2.0	2.0	3.0	1.8	3.0	4.0	2.5	1.0	1.5	1.5	2.0	2.3
2.0	1.0	3.0	2.0	3.0	3.5	2.3	1.0	1.0	1.5	2.5	3.0
1.5	1.0	3.0	1.7	3.0	4.0	1.8	1.0	1.5	1.0	2.5	2.0
1.0	1.5	1.0	1.8	2.5	2.5	1.7	1.0	1.0	1.0	1.5	3.2
1.5	2.0	3.0	2.5	3.0	3.0	1.7	1.0	1.5	1.5	2.5	3.5
1.5	2.0	2.0	1.8	3.5	3.5	1.5	1.0	1.0	1.5	2.0	2.0

UNIFORM TEST IV, 1982

Strain	Mean 19 Tests	Illinois				Indiana			Ks.
		Belle-ville	Eldo-rado	Browns-town	Carbon-dale	Lafay-ette	Green-field	Sulli-van	Man-hattan
		SEED SIZE (g/100)							
Douglas	18.5	18.5	14.8	18.4	15.5	20.4	20.0	18.5	19.4
Franklin	15.4	15.4	11.9	14.7	13.6	15.8	14.7	15.2	15.7
Lawrence	17.6	16.6	13.4	17.1	15.0	19.1	18.4	16.8	17.1
Pixie	16.8	16.8	14.4	15.9	15.6	17.7	16.2	17.9	16.8
Sparks	17.3	15.6	11.9	15.3	13.6	18.4	17.4	16.2	17.7
Union (IV)	17.7	16.0	13.9	17.3	14.9	19.7	19.3	18.3	19.3
Williams 82 (III)	16.8	15.4	12.3	15.3	13.3	18.2	17.4	17.0	16.9
A80-349012	17.6	17.0	14.0	16.4	14.7	20.6	20.1	18.1	16.3
C1598	17.9	16.8	14.5	17.8	13.8	20.8	18.9	19.0	17.1
HC76-4449	15.8	15.8	14.3	14.3	13.6	16.6	15.8	15.9	14.6
HC77-2204	13.6	12.4	10.1	12.2	12.4	15.1	14.0	13.6	13.6
HC78-261	17.5	17.9	15.3	14.6	15.6	18.8	16.6	18.4	18.6
HC78-279	17.6	17.3	13.8	14.1	14.3	18.6	16.1	16.8	18.8
HC78-349	17.7	16.9	14.4	14.3	15.7	19.0	17.5	19.6	18.3
HC78-350	17.7	16.5	15.3	15.3	15.9	18.5	17.1	18.5	18.7
HC78-353	17.7	17.4	14.1	14.7	14.8	18.9	16.6	18.6	18.1
HC78-356	17.4	16.6	14.3	14.6	14.0	17.7	16.9	18.4	18.0
K1058	18.6	18.7	16.6	17.4	16.5	21.5	19.3	18.1	17.8
K1075	19.6	20.9	16.9	19.3	17.7	21.2	20.0	20.8	19.2
K1076	17.1	15.9	14.7	16.4	13.3	18.4	17.9	16.6	18.4
Ky78-1214	16.5	14.7	13.0	15.4	14.1	18.0	16.8	16.9	16.4
L77-8039	16.3	14.6	13.4	15.1	14.4	18.3	17.6	16.9	16.1
L77-8290	14.8	13.4	11.8	13.6	12.8	16.7	15.0	14.1	14.2
L78-8138	13.2	12.0	11.3	13.5	12.8	14.5	13.7	13.3	12.6
L78-8716	17.2	15.4	14.1	16.5	14.6	18.7	17.5	17.5	18.2
LN-1067	16.6	16.0	14.0	14.5	15.3	17.7	16.9	16.4	15.7

UNIFORM TEST IV, 1982

Kansas		Ky.	Md.	Missouri		NE	NJ	Ohio		Pa.	Texas
Pow-hattan	Ottawa	Lexing-ton	Queens-town	Loam	Clay Portageville	Lin-coln	Adel-phia	Ripley	Charles-ton	Landis-ville	Lubbock
				SEED SIZE (g/100)							
21.5	16.8	19.7	19.7	15.9		21.1	15.0	12.3	17.9	21.8	25.2
17.7	20.1	15.5	15.0	13.8		16.4	12.0	12.6	16.4	16.8	19.8
19.7	19.6	17.4	18.9	16.7		18.4	13.0	15.3	18.8	19.5	23.8
19.0	16.8	13.9	18.5	17.1		19.8	13.0	15.2	16.7	16.5	22.1
20.8	19.2	16.2	17.2	15.5		18.7	15.0	16.9	18.8	20.5	23.4
20.9	14.0	15.6	18.9	15.6		19.9	16.0	15.6	19.0	20.1	21.6
19.6	19.2	15.8	18.5	15.2		19.9	13.0	13.6	18.5	19.4	21.9
19.7	18.5	18.7	18.8	15.7		18.8	16.0	14.3	19.2	21.7	24.3
18.5	18.2	18.0	18.8	14.9		20.4	14.0	13.3	19.3	20.8	24.5
16.7	19.7	15.3	17.1	14.9		18.0	12.0	12.8	16.3	15.5	20.3
16.5	15.7	9.8	15.5	14.0		16.2	11.0	10.3	13.8	14.6	17.8
19.4	17.9	16.4	17.9	17.7		21.5	13.0	17.5	17.3	16.4	22.2
21.6	18.4	16.4	19.0	17.6		21.8	16.0	17.2	18.1	16.1	22.6
19.9	17.4	14.7	19.6	17.6		22.2	14.0	17.7	18.2	16.8	22.3
20.2	20.3	13.3	18.7	16.6		21.3	15.0	17.6	18.8	17.1	22.2
20.4	18.6	15.4	19.8	17.0		20.7	17.0	16.9	17.8	17.5	22.2
20.9	19.1	14.7	19.4	17.2		21.4	13.0	16.9	17.6	16.8	23.0
19.6	19.7	19.2	18.5	17.1		20.4	16.0	14.7	19.5	19.5	22.4
21.0	19.5	20.1	19.7	18.9		20.7	16.0	16.3	20.3	20.9	22.7
19.7	19.7	17.2	17.5	14.7		19.0	14.0	14.4	17.1	18.6	20.9
18.4	18.8	19.4	17.1	13.9		17.9	15.0	11.4	16.2	18.5	21.1
18.1	16.2	16.5	17.2	14.9		17.9	13.0	11.8	18.1	18.3	21.3
15.8	15.7	13.7	16.3	13.0		16.7	13.0	13.1	16.0	16.5	20.1
14.0	13.1	12.4	15.4	15.6		14.3	9.0	9.6	12.1	13.8	18.3
21.6	16.4	13.3	17.1	16.0		20.2	15.0	16.8	17.6	18.3	22.8
18.8	20.3	16.2	16.3	17.0		17.9	14.0	13.8	16.8	18.2	19.9

UNIFORM TEST IV, 1982

Strain	Mean 5 Tests	Ind. Lafayette	Ks. Manhattan	Ky. Lexington	Missouri Loam Portageville	Texas Lubbock
		PROTEIN (%)				
Douglas	40.8	40.5	39.8	42.3	40.7	40.9
Franklin	38.4	37.5	37.4	41.3	37.2	38.6
Lawrence	41.3	40.6	39.9	41.8	41.7	42.7
Pixie	41.1	41.3	39.5	42.6	41.4	40.7
Sparks	39.1	37.8	37.9	40.7	38.4	40.5
Union (IV)	39.9	39.2	40.2	40.3	41.3	38.5
Williams 82 (III)	40.7	40.1	39.5	41.8	41.7	40.3
A80-349012	40.6	40.2	38.9	42.0	40.5	41.2
C1598	40.8	41.1	40.1	43.0	39.8	40.0
HC76-4449	42.7	43.3	43.6	41.8	42.1	42.7
HC77-2204	38.9	39.5	37.5	40.1	38.9	38.7
HC78-261	42.3	42.3	41.3	42.9	43.1	41.8
HC78-279	43.1	42.4	40.8	44.6	44.5	43.2
HC78-349	42.6	42.3	40.5	43.6	44.1	42.3
HC78-350	42.7	42.0	40.7	45.0	43.4	42.4
HC78-353	41.1	41.4	40.3	39.2	43.6	-
HC78-356	42.4	41.4	41.3	43.1	43.7	42.6
K1058	41.9	42.6	40.8	43.9	41.8	40.6
K1075	41.4	42.0	41.3	42.3	41.1	40.3
K1076	42.8	41.7	42.0	43.9	43.1	43.1
Ky78-1214	40.1	40.0	39.5	41.4	39.7	39.8
L77-8039	40.9	40.8	39.6	42.8	40.5	40.7
L77-8290	40.3	39.9	39.3	43.2	4p.0	39.0
L78-8138	39.8	40.7	37.7	41.2	40.3	39.0
L78-8716	38.8	39.1	37.2	42.0	38.8	36.8
LN-1067	42.4	42.4	42.3	43.5	42.5	41.1

UNIFORM TEST IV, 1982

Strain	Mean 5 Tests	Ind. Lafayette	Ks. Manhattan	Ky. Lexington	Missouri Loam Portageville	Texas Lubbock
		OIL (%)				
Douglas	18.6	17.5	18.4	18.6	19.9	18.8
Franklin	19.3	18.0	20.5	17.7	21.2	18.9
Lawrence	18.2	17.3	18.4	18.4	19.1	17.6
Pixie	19.5	16.9	19.3	19.5	21.0	20.7
Sparks	19.0	18.9	19.1	18.4	20.4	18.1
Union (IV)	19.5	19.7	18.7	19.1	19.6	20.5
Williams 82 (III)	19.4	18.4	19.7	18.8	20.4	19.9
A80-349012	18.2	16.8	19.0	18.1	19.6	17.7
C1598	18.8	17.6	17.9	18.6	20.4	19.4
HC76-4449	18.7	16.5	18.0	19.4	20.6	19.2
HC77-2204	19.1	17.7	19.3	18.1	20.7	19.6
HC78-261	20.1	18.4	20.3	19.7	20.9	21.0
HC78-279	19.6	18.6	20.4	18.9	20.2	20.1
HC78-349	19.8	18.4	20.9	19.1	20.3	20.4
HC78-350	19.5	18.4	20.5	17.4	21.1	19.9
HC78-353	20.3	18.9	20.5	21.5	20.2	-
HC78-356	19.7	18.8	20.3	18.4	21.1	20.0
K1058	17.9	15.8	18.2	16.4	19.7	19.6
K1075	18.2	16.4	17.3	17.6	20.2	19.4
K1076	17.0	15.9	17.5	16.6	18.0	17.0
Ky78-1214	19.1	17.7	19.0	18.4	20.5	19.7
L77-8039	18.5	17.1	18.5	17.7	20.3	19.1
L77-8290	18.9	18.1	18.9	17.2	20.1	20.1
L78-8138	19.3	18.2	19.5	18.3	20.4	20.3
L78-8716	19.9	17.7	20.1	18.2	21.9	21.8
LN-1067	17.0	16.2	15.3	16.4	18.6	18.7

PRELIMINARY TEST IV, 1982

Strain	Parentage	Generation Composited
1. Franklin	L12 x Custer	F_3
2. Union (IV)	Williams[5] x SL12 (Rpm Rps)	$9BC_4F_3$
3. Williams 82 (III)	Williams[7] x Kingwa	$4BC_6F_3$
4. Pixie	Williams x Ransom	F_5
5. HC77-2205	Hodgson x V68-1034	F_5
6. HC78-2826	L72U-2567 x Essex	F_5
7. HC78-2829	L72U-2567 x Essex	F_5
8. HC78-2866	L72U-2567 x Essex	F_5
9. HC79-1260	L72U-2567 x Essex	F_5
10. HC79-1273	L72U-2567 x Ransom	F_5
11. HC79-1276	L72U-2567 x Ransom	F_5
12. HC79-1334	L72U-2567 x Ransom	F_5
13. HC79-1625	L72U-2567 x Ransom	F_5
14. HC79-1644	L72U-2567 x Ransom	F_5
15. HC79-1671	L72U-2567 x Lee 74	F_5
16. HC79-2547	L72U-2567 x Hodgson	F_5
17. HC79-3126	L72U-2567 x Ransom	F_5
18. L78L-957	Essex x Elf	F_4
19. C1617	CX588-78 x CX597-169	F_6
20. HW8141	BSR 301 x Pella	F_5
21. HW8142	Cumberland x A76-304005	F_5
22. HW8143	Cumberland x Pfizer CX276	F_5
23. K1089	(Tracy x Columbus) x (Williams x Calland)	F_5
24. K1090	Union x Essex	F_5
25. Ky79-0237	Williams x Essex	F_5
26. Ky79-0840	A72-512 x Essex	F_5
27. LN80-6804	A76-202015 x Land o'Lakes Max	F_4
28. LN80-7319	A76-304020 x Asgrow 2656	F_4
29. LN80-8184	A76-304020 x Century	F_4
30. LS78W-110	L71L-436 x J74-5	F_4
31. LS78W-724-1	L71L-436 x J74-5	F_4
32. Md79-5043	Union x Miles	F_5
33. Md79-5144	L70D6-16 x Miles	F_5
34. V78-1175	Essex x Williams	F_5
35. V78-1199	Essex x Williams	F_5

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Descriptive and Disease Data

Strain	Descriptive Code			Chlorosis Score Ames	Shattering Manhattan 2 Weeks	PS	PSB	SMV	Germ
						Lafayette			
						a %	n %	a score	%
Franklin	PGBr	DYIb	I	2.5	1	11	4	3M	91
Union IV	WTT	SYB1	I	2.8	2	31	6	5M	92
Williams 82 (III)	WTT	SYB1	I	3.0	1	31	4	5E	94
Pixie	PTT	SYB1	I	2.2	1	19	1	5E	96
HC77-2205	PGT	DYBf	D	3.5	1	6	1	5E	99
HC78-2826	PTT	SYB1	D	3.2	1	12	0	2E	93
HC78-2829	PTT	SYB1	D	3.2	2	5	0	1	95
HC78-2866	PTT	SYB1	D	3.0	1	13	0	1	91
HC79-1260	PTT	SYB1	D	2.3	2	19	0	1	94
HC79-12373	PTT	SYB1	D	3.0	1	7	0	1	88
HC79-1276	PTT	SYB1	D	3.8	1	5	1	1	96
HC79-1334	PTT	SYB1	D	2.8	3	13	0	1	88
HC79-1625	PTT	SYB1	D	2.3	1	5	0	1	91
HC79-1644	PTT	SYB1	D	3.5	1	4	0	1	97
HC79-1671	PTT	SYB1	D	3.3	1	23	0	2E	92
HC79-2547	PT+GG+Br	DYIB+B1	D	3.3	1	24	1	1	91
HC79-3126	PTT	SYB1	D	1.8	1	10	2	1	90
L78L-957	PGT	DYIb	D	4.0	1	3	1	1	80
C1617	WTT	SYB1	I	4.0	1	31	3	5E	94
HW8141	PTT	DYBf+B1	I	3.8	1	6	7	5E	91
HW8142	PGBr	IYY	I	4.0	1	52	15	5E	78
HW8143	PGBr	SYIb	I	2.7	1	62	0	2E	92
K1089	P+WTT	DYB1	I	3.2	3	19	0	5E	93
K1090	PTT	DYBr	I	2.7	1	18	1	4E	97
Ky79-0237	WTT	DYB1	I	2.8	2	5	0	1	97
Ky79-0840	PGT	DYBf	I	2.5	2	22	1	1	96
LN80-6804	WTBr	SYB1	I	3.2	1	32	8	5S	87
LN80-7319	PTBr	DYB1	I	2.3	3	29	5	4E	93
LN80-8184	WTBr	DYB1	I	3.3	1	37	8	5E	88
LS78W-110	PGT	SYIb	I	3.5	1	21	5	5E	92
LS78W-724-1	PGT	DYIb	I	2.7	1	15	1	5E	97
Md79-5043	WTT	DYB1	I	2.5	2	25	3	5E	94
Md79-5144	PGT	DYIb	I	2.8	3	18	8	4M	93
V78-1175	P+WTT	IYB1	I	2.8	1	7	4	1	90
V78-1199	P+WTT	DYB1	I	2.7	2	21	1	1	94

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Disease Data

Strain	PR_1		PR_4	PR	BSR			FE_2	BB
				Tolerance	Ames		Lafayette		
	Lafay-ette	Ames	Ames	Vickery	Plant	Stem	Stem	Lafay-ette	Eldorado
	a	a	a	n	n	n	n	a	n
	----reaction----			score	%	%	%	score	score
Franklin	R	R	S	2.6	S	S	60	5	1.0
Union IV	R	R	S	3.2	S	S	80	5	1.0
Williams 82 (III)	R	R	R	2.5	90	72.2	60	4	1.0
Pixie	S	S	S	2.9	S	S	80	3	2.2
HC77-2205	R	H	R	2.8	100	73.1	20	4	3.0
HC78-2826	S	S	S	3.2	90	77.1	20	3	1.5
HC78-2829	S	S	S	3.0	100	64.8	40	4	2.0
HC78-2866	S	S	S	3.1	100	99.2	60	4	2.0
HC79-1260	S	S	S	3.1	100	91.5	80	4	2.5
HC79-1273	H	S	S	3.2	100	80.6	0	1	1.4
HC79-1276	H	S	S	3.4	100	85.9	0	1	1.5
HC79-1334	S	S	S	3.2	100	94.9	100	1	2.4
HC79-1625	S	S	S	3.8	100	95.4	20	1	2.4
HC79-1644	H	S	S	4.0	100	95.2	20	1	1.9
HC79-1671	H	S	S	2.9	100	98.5	40	1	2.0
HC79-2547	S	S	S	3.6	100	94.8	80	1	2.5
HC79-3126	S	S	S	3.5	100	94.6	80	1	2.0
L78L-957	-	S	S	3.5	100	89.8	20	3	1.0
C1617	R	H	S	2.9	100	81.7	20	4	1.0
HW8141	R	H	S	3.0	100	62.8	20	2	1.0
HW8142	S	H	S	3.0	100	71.4	40	5	1.0
HW8143	R	S	S	2.9	100	69.8	40	5	1.0
K1089	R	R	R	3.5	100	76.0	80	4	1.0
K1090	R	H	S	3.2	100	76.6	40	5	1.0
Ky79-0237	S	S	S	2.5	100	70.4	40	4	1.0
Ky79-0840	S	S	S	3.4	100	72.8	40	1	1.0
LN80-6804	S	S	S	3.1	100	71.0	40	1	1.0
LN80-7319	R	S	S	3.0	90	33.3	60	1	1.0
LN80-8184	S	S	S	3.1	100	83.8	60	3	1.0
LS78W-110	S	S	S	2.4	100	80.3	0	4	1.0
LS78W-724-1	R	S	S	2.4	100	78.4	20	5	1.0
Md79-5043	S	S	S	3.0	100	61.1	80	5	1.0
Md79-5144	S	S	S	3.2	100	91.3	80	4	1.0
V78-1175	S	S	S	3.0	100	80.6	80	4	1.0
V78-1199	S	S	S	3.1	100	79.8	80	5	1.0

PRELIMINARY TEST IV, 1982

Regional Summary

Strain	Yield	Rank	Maturity	Lodging	Plant Height	Seed Quality	Seed Size	Composition	
								Protein	Oil
No. of Tests	8	8	8	8	8			5	5
	bu/a	no.	date	score	in.	score	g/100	%	%
Franklin	40.3	27	+6	2.2	40	2.3	14.2	38.6	19.5
Union IV	45.1	6	9-19*	2.2	41	2.0	16.8	40.0	19.0
Williams 82 (III)	43.8	11	-1	1.6	36	2.1	16.1	41.0	19.2
Pixie	47.4	1	+1	1.5	20	1.8	15.8	41.4	18.7
HC77-2205	45.1	6	-2	1.4	23	1.7	12.3	39.6	19.3
HC78-2826	36.5	33	+1	1.2	17	2.4	16.2	40.8	19.1
HC78-2829	41.9	16	0	1.3	21	2.3	15.1	40.9	19.2
HC78-2866	40.0	28	+1	1.1	19	2.1	15.6	42.1	18.8
HC79-1260	33.8	34	0	1.4	19	2.3	15.6	41.4	19.4
HC79-1273	38.6	30	+6	1.4	19	2.2	17.6	40.9	19.1
HC79-1276	41.6	20	+4	1.5	21	2.0	17.0	40.8	19.3
HC79-1334	36.8	32	+2	1.1	19	2.0	15.7	40.7	20.0
HC79-1625	42.0	15	+1	1.3	21	1.9	16.2	40.2	19.9
HC79-1644	41.3	21	0	1.2	20	2.0	15.4	40.2	20.5
HC79-1671	41.9	16	+1	1.5	22	2.0	16.7	42.2	18.6
HC79-2547	38.3	31	-1	1.4	17	2.1	14.4	41.0	19.1
HC79-3126	29.8	35	+6	1.1	16	2.3	15.7	41.4	18.9
L78L-957	43.2	13	+19	1.8	29	2.4	14.4	41.2	17.9
C1617	44.7	9	-1	2.3	41	2.2	17.2	41.3	18.7
HW8141	40.9	24	+6	1.5	36	2.7	16.3	39.7	18.8
HW8142	44.2	10	-2	2.0	36	2.2	14.7	39.9	19.3
HW8143	45.8	4	-4	2.1	36	2.5	16.7	39.2	19.6
K1089	41.2	23	+7	1.9	34	2.5	16.4	41.5	18.4
K1090	43.4	12	+9	1.8	38	2.2	13.9	40.6	18.5
Ky79-0237	45.0	8	+10	1.6	40	2.4	15.9	41.9	18.2
Ky79-0840	41.7	18	-3	2.6	37	2.2	13.4	41.6	18.9
LN80-6804	41.3	21	-2	2.0	34	2.4	15.8	38.5	19.6
LN80-7319	40.7	25	-2	2.2	36	2.4	14.7	40.3	17.6
LN80-8184	46.7	2	0	1.8	33	2.4	15.6	41.1	18.6
LS78W-110	42.1	14	+7	2.5	41	2.5	14.0	38.8	18.7
LS78W-724-1	39.4	29	+8	2.5	47	2.5	13.9	37.7	19.6
Md79-5043	46.6	3	+2	1.8	38	2.1	16.4	42.6	17.7
Md79-5144	45.2	5	+8	1.5	36	2.6	16.4	40.1	18.7
V78-1175	40.4	26	0	1.9	37	2.0	15.3	42.3	18.4
V78-1199	41.7	18	0	1.9	37	2.1	15.1	41.7	18.6

*123 days after planting

None of the strains in this test exceeded the yield of Pixie, the highest yielding check variety. Two strains in this test, LS78W-110 and LS78W-724-1, are resistant to race 3 of the SCN. Continued evaluation of L78L-957 and of Ky79-0237 should be done in UT IVS.

PRELIMINARY TEST IV, 1982

Strain	Mean 8 Tests	Ill. Eldorado	Ind. Sullivan	Ks. Manhattan	Ky. Lexington	Md. Queenstown	Missouri Loam Portageville	Missouri Clay* Portageville	Ohio Ripley
				YIELD (bu/a)					
Franklin	40.3	44.3	38.6	42.4	35.9	35.5	46.6	15.0	39.1
Union IV	45.1	41.8	51.4	50.9	39.3	39.4	43.2	19.4	49.8
Williams 82 (III)	43.8	38.0	48.1	50.6	35.0	40.9	48.6	17.3	45.6
Pixie	47.4	48.8	55.8	55.7	37.9	40.1	29.2	18.6	64.1
HC77-2205	45.1	44.5	48.9	53.2	36.6	37.6	42.3	20.1	52.5
HC78-2826	36.5	31.8	25.4	57.4	30.1	36.6	13.5	4.2	60.4
HC78-2829	41.9	36.2	44.4	59.7	35.2	36.9	25.7	9.9	55.0
HC78-2866	40.0	40.3	41.3	55.8	33.0	40.0	21.3	12.4	48.5
HC79-1260	33.8	32.8	24.6	51.0	27.3	34.2	20.2	7.6	46.3
HC79-1273	38.6	38.6	31.7	48.6	40.0	39.1	18.3	4.6	52.6
HC79-1276	41.6	34.7	45.4	56.1	37.4	34.7	19.9	6.0	62.9
HC79-1334	36.8	33.9	44.9	52.2	29.5	34.7	14.0	6.7	48.5
HC79-1625	42.0	42.8	41.0	57.4	41.8	41.6	20.4	8.0	48.9
HC79-1644	41.3	26.2	50.5	55.6	36.6	40.8	18.5	8.1	61.1
HC79-1671	41.9	37.4	47.8	51.1	34.6	40.3	29.2	10.8	53.1
HC79-2547	38.3	33.3	46.3	54.9	29.0	43.4	15.9	1.8	45.3
HC79-3126	29.8	27.7	21.0	56.2	25.6	33.4	12.8	6.3	32.0
L78L-957	43.2	50.2	52.9	47.3	49.8	36.1	39.7	23.8	26.2
C1617	44.7	41.5	52.7	48.8	34.5	41.3	43.5	17.9	50.8
HW8141	40.9	34.7	44.2	46.1	41.3	39.0	37.9	21.8	43.4
HW8142	44.2	44.3	45.5	55.4	39.5	39.3	33.2	20.0	52.5
HW8142	45.8	40.4	61.4	53.9	36.7	36.5	37.7	17.0	54.1
K1089	41.2	48.2	39.9	52.7	37.5	38.3	38.6	10.7	33.4
K1090	43.4	42.7	54.4	48.2	44.6	42.1	45.6	25.7	26.4
Ky79-0237	45.0	46.7	59.8	47.7	45.8	39.0	45.7	23.2	30.3
Ky79-0840	41.7	44.3	33.9	54.3	34.1	39.7	35.6	15.6	50.1
LN80-6804	41.3	38.5	42.0	49.7	38.1	39.9	33.5	16.3	47.2
LN80-7319	40.7	34.5	45.3	49.4	40.8	37.8	33.4	10.0	43.7
LN80-8184	46.7	45.4	47.3	48.3	43.9	42.1	50.0	17.6	50.1
LS78W-110	42.1	48.4	39.5	51.9	37.4	30.7	47.7	30.8	38.8
LS78W-724-1	39.4	40.6	42.8	41.6	42.1	37.4	42.4	22.3	29.0
Md79-5043	46.6	45.9	52.0	52.6	38.2	40.4	46.9	22.6	50.3
Md79-5144	45.2	48.6	56.7	47.7	40.3	37.8	43.8	15.9	41.2
V78-1175	40.4	42.9	48.9	47.8	38.0	37.3	42.4	20.4	45.1
V78-1199	41.7	43.7	40.6	52.2	37.6	35.6	45.5	27.8	50.9
C.V. (%)		10.6	17.9	6.3	10.3	11.9	14.0	35.0	10.2
L.S.D. (5%)		8.7	16.2	6.6	5.2	NS	9.9	11.1	9.8
Row sp. (in.)		30	28	30	30	30	30	30	30
Rows/plot		4	3	4	4	4	4	4	4
Reps		2	3	2	2	2	2	2	2

*Not included in the mean

PRELIMINARY TEST IV, 1982

Strain	Mean 8 Tests	Ill. Eldo-rado	Ind. Sulli-van	Ks. Man-hattan	Ky. Lexing-ton	Md. Queens-town	Missouri Loam	Missouri Clay Portageville	Ohio Ripley
			YIELD RANK						
Franklin	27	10	29	34	24	30	5	21	28
Union IV	6	17	9	21	12	14	11	12	16
Williams 82 (III)	11	24	13	22	26	6	2	16	22
Pixie	1	2	4	7	16	10	23	13	1
HC77-2205	6	9	11	13	22	22	14	10	9
HC78-2826	33	33	32	2	31	26	34	34	4
HC78-2829	16	26	20	1	25	25	25	26	5
HC78-2866	28	21	24	6	30	10	26	22	18
HC79-1260	34	32	33	20	34	33	28	29	21
HC79-1273	30	22	31	26	10	16	31	33	7
HC79-1276	20	27	17	5	20	31	29	32	2
HC79-1334	32	30	19	16	32	31	33	30	18
HC79-1625	15	15	25	2	6	4	27	28	17
HC79-1644	21	35	10	8	23	7	30	27	3
HC79-1671	16	25	14	19	27	9	23	23	8
HC79-2547	31	31	15	10	33	1	32	35	23
HC79-3126	35	34	34	4	35	34	35	31	31
L78L-957	13	1	6	32	1	28	15	4	35
C1617	9	18	7	25	28	5	10	14	12
HW8141	24	27	21	33	7	17	17	8	26
HW8142	10	10	16	9	11	15	22	11	9
HW8143	4	20	1	12	21	27	18	17	6
K1089	23	5	27	14	18	19	16	24	30
K1090	12	16	5	28	3	2	7	3	34
Ky79-0237	8	6	2	30	2	17	6	5	32
Ky79-0840	18	10	30	11	29	13	19	20	14
LN80-6804	21	23	23	23	14	12	20	18	20
LN80-7319	25	29	18	24	8	20	21	25	25
LN80-8184	2	8	15	27	4	2	1	15	14
LS78W-110	14	4	28	18	19	35	3	1	29
LS78W-724-1	29	19	22	35	5	23	12	7	33
Md79-5043	3	7	8	15	13	8	4	6	13
Md79-5144	5	3	3	30	9	20	9	19	27
V78-1175	26	14	11	29	15	24	12	9	24
V78-1199	18	13	26	16	17	29	8	2	11

PRELIMINARY TEST IV, 1982

Strain	Mean 8 Tests	Ill. Eldorado	Ind. Sullivan	Ks. Manhattan	Ky. Lexington	Md. Queenstown	Missouri Loam Portageville	Missouri Clay Portageville	Ohio Ripley
				MATURITY (date)					
Franklin	+6	+6	+7	+2	+11	+3	+6	-1	+14
Union IV	9-19	9-10	9-22	10-6	9-21	9-27	9-12	9-11	9-15
Williams 82 (III)	-1	-3	-2	0	0	-2	0	0	-3
Pixie	+1	-1	+8	+4	0	-4	0	-3	+3
HC77-2205	-2	-5	+1	-1	-5	-4	0	0	0
HC78-2826	+1	+2	+7	+3	-2	-5	+1	0	+4
HC78-2829	0	-2	+3	+4	-2	-3	+1	0	+1
HC78-2866	+1	-1	+4	+2	0	-2	+2	-1	+3
HC79-1260	0	-3	+4	+2	-5	-2	+2	0	+4
HC79-1273	+6	+11	+10	+4	+4	+7	+8	+1	+4
HC79-1276	+4	+8	+10	+3	+2	+3	+2	0	+3
HC79-1334	+2	0	+7	+2	0	+1	+2	-1	+2
HC79-1625	+1	-1	+5	+3	-2	+1	+1	+2	+1
HC79-1644	0	-1	+7	+2	-2	-2	+1	0	-2
HC79-1671	+1	-2	+5	+3	0	-2	+1	0	+2
HC79-2547	-1	-1	+7	0	-9	-2	+1	-3	+1
HC79-3126	+6	+10	+10	+7	+6	+6	+2	+1	+3
L78L-957	+19	+23	+25	F	+17	+14	+16	+19	+19
C1617	-1	-2	0	0	0	-5	+1	0	-1
HW8141	+6	+8	+7	+4	+10	0	+7	+13	+1
HW8142	-2	-4	-3	+2	-5	-5	0	-1	-2
HW8143	-4	-6	-4	-1	-5	-6	0	-3	-6
K1089	+7	+8	+11	+6	+11	+8	+1	+1	+6
K1090	+9	+10	+9	+5	+8	+11	+7	+13	+11
Ky79-0237	+10	+12	+13	+10	+10	+9	+7	+12	+6
Ky79-0840	-3	-4	-2	-2	-7	-3	0	-3	-1
LN80-6804	-2	-6	-1	-1	-5	0	0	-1	-5
LN80-7319	-2	-3	-1	-1	+2	-3	0	-3	-3
LN80-8184	0	-1	0	+4	+4	0	0	0	-5
LS78W-110	+7	+11	+8	+6	+11	+1	+8	+2	+5
LS78W-724-1	+8	+13	+10	+5	+13	+9	+8	+2	+7
Md79-5043	+2	+1	+2	+4	+2	+3	+1	0	+4
Md79-5144	+8	+12	+9	+6	+15	+7	+11	+2	+5
V78-1175	0	-1	+2	+1	-2	-1	+1	0	+1
V78-1199	0	-2	0	0	0	-2	+1	-1	+2
Date planted	5-18	5-14	5-13	6-11	-	6-3	5-11	5-6	5-5
Days to mature	123	114	132	117	-	116	124	128	133

PRELIMINARY TEST IV, 1982

Strain	Mean 8 Tests	Ill. Eldo-rado	Ind. Sulli-van	Ks. Man-hattan	Ky. Lexing-ton	Md. Queens-town	Missouri Loam	Missouri Clay Portageville	Ohio Ripley
				LODGING (score)					
Franklin	2.2	2.3	1.8	3.3	2.0	2.0	1.5	1.5	2.8
Union IV	2.2	2.4	2.8	3.5	1.5	2.8	1.5	1.0	1.8
Williams 82 (III)	1.6	1.6	2.5	2.0	1.3	2.0	1.5	1.0	1.0
Pixie	1.5	1.8	1.5	2.8	1.5	1.5	1.0	1.0	1.0
HC77-2205	1.4	1.0	1.5	2.0	1.0	1.5	1.0	1.0	1.8
HC78-2826	1.2	1.0	1.3	2.3	1.0	1.3	1.0	1.0	1.0
HC78-2829	1.3	1.0	1.0	2.8	1.3	1.5	1.0	1.0	1.0
HC78-2866	1.1	1.0	1.0	2.0	1.0	1.0	1.0	1.0	1.0
HC79-1260	1.4	1.0	1.3	3.3	1.0	1.3	1.0	1.0	1.0
HC79-1273	1.4	1.0	1.0	3.0	1.3	1.0	1.0	1.5	1.2
HC79-1276	1.5	1.0	1.3	3.5	1.3	1.8	1.0	1.0	1.0
HC79-1334	1.1	1.0	1.0	2.0	1.0	1.0	1.0	1.0	1.0
HC79-1625	1.3	1.2	1.0	2.5	1.0	1.3	1.0	1.0	1.2
HC79-1644	1.2	1.0	1.5	2.3	1.0	1.0	1.0	1.0	1.0
HC79-1671	1.5	1.9	1.5	2.8	1.0	1.5	1.0	1.0	1.2
HC79-2547	1.4	1.0	1.3	3.8	1.0	1.0	1.0	1.0	1.0
HC79-3126	1.1	1.0	1.0	2.0	1.0	1.0	1.0	1.0	1.0
L78L-957	1.8	1.4	1.5	2.8	1.5	2.8	1.5	1.0	2.2
C1617	2.3	3.0	2.0	3.8	2.0	2.0	2.0	1.0	2.8
HW8141	1.5	1.1	2.0	2.5	1.3	1.8	1.0	1.0	1.0
HW8142	2.0	2.7	3.0	3.5	1.3	2.0	1.0	1.0	1.5
HW8143	2.1	3.3	2.8	4.0	1.3	1.8	1.0	1.0	1.2
K1089	1.9	1.7	2.8	3.0	1.5	2.0	1.0	1.5	2.0
K1090	1.8	1.4	1.8	2.3	2.0	2.0	2.0	1.5	1.0
Ky79-0237	1.6	1.6	1.8	2.3	1.5	1.5	1.5	1.5	1.0
Ky79-0840	2.6	4.0	2.5	3.3	1.8	2.8	2.0	1.0	3.2
LN80-6804	2.0	2.5	1.8	3.0	1.5	2.0	2.0	1.0	2.5
LN80-7319	2.2	3.4	2.0	3.8	1.8	2.3	1.0	1.0	2.5
LN80-8184	1.8	1.8	2.0	3.0	1.3	1.8	2.0	1.5	1.2
LS78W-110	2.5	3.5	1.8	3.3	3.0	2.0	2.0	1.5	3.2
LS78W-724-1	2.5	3.4	1.8	2.8	2.8	2.3	2.0	1.5	3.5
Md79-5043	1.8	2.2	1.8	2.5	1.5	2.0	1.5	1.5	1.5
Md79-5144	1.5	1.5	1.8	2.3	1.0	1.5	1.5	1.0	1.0
V78-1175	1.9	1.7	2.2	2.8	1.5	1.8	2.0	1.0	1.8
V78-1199	1.9	1.9	1.8	2.8	2.0	1.8	1.5	1.5	1.5

PRELIMINARY TEST IV, 1982

Strain	Mean 8 Tests	Ill. Eldorado	Ind. Sullivan	Ks. Manhattan	Ky. Lexington	Md. Queenstown	Missouri Loam	Missouri Clay Portageville	Ohio Ripley
				PLANT HEIGHT (inches)					
Franklin	40	49	41	45	40	35	46	22	42
Union IV	41	48	40	52	45	37	36	26	42
Williams 82 (III)	36	40	42	40	34	34	34	27	38
Pixie	20	20	20	25	23	21	16	11	26
HC77-2205	23	22	26	28	29	20	15	14	26
HC78-2826	17	17	15	25	19	19	11	8	24
HC78-2829	21	19	18	28	24	22	17	16	26
HC78-2866	19	19	20	24	21	19	15	11	26
HC79-1260	19	19	17	27	21	20	13	9	26
HC79-1273	19	18	18	22	22	22	11	11	26
HC79-1276	21	19	20	24	24	22	19	12	26
HC79-1334	19	18	18	25	22	19	15	10	27
HC79-1625	21	21	19	25	26	21	15	11	26
HC79-1644	20	17	19	27	22	20	14	12	25
HC79-1671	22	21	21	29	23	22	21	13	29
HC79-2547	17	16	17	24	20	19	9	8	22
HC79-3126	16	16	14	23	13	18	12	10	22
L78L-957	29	35	32	35	14	30	29	21	39
C1617	41	47	44	47	41	40	40	26	40
HW8141	36	40	38	43	35	31	36	25	38
HW8142	36	42	39	44	35	33	38	22	32
HW8143	36	42	44	46	36	34	34	21	35
K1089	34	40	37	38	31	33	34	22	36
K1090	38	40	41	42	39	32	46	28	36
Ky79-0237	40	44	46	46	41	37	43	26	40
Ky79-0840	37	45	35	53	37	34	41	21	32
LN80-6804	34	42	36	40	34	33	36	17	34
LN80-7319	36	44	38	52	40	32	30	16	38
LN80-8184	33	43	36	42	31	31	34	15	32
LS78W-110	41	45	39	48	40	36	48	28	40
LS78W-724-1	47	49	47	57	51	44	51	35	43
Md79-5043	38	45	40	40	36	35	40	27	40
Md79-5144	36	44	41	44	36	29	35	19	38
V78-1175	37	46	40	43	39	35	36	21	38
V78-1199	37	42	39	38	39	31	34	32	40

PRELIMINARY TEST IV, 1982

Strain	Mean 8 Tests	Ill. Eldorado	Ind. Sullivan	Ks. Manhattan	Ky. Lexington	Md. Queenstown	Missouri Loam Portageville	Missouri Clay Portageville	Ohio Ripley
				SEED QUALITY (score)					
Franklin	2.3	3.0	1.5	1.0	1.0	3.0	3.0	4.0	1.5
Union IV	2.0	3.0	1.5	1.0	1.0	2.0	2.5	4.0	1.0
Williams 82 (III)	2.1	2.5	1.0	1.0	2.0	2.3	3.0	3.5	1.5
Pixie	1.8	1.8	1.5	1.0	2.0	2.5	2.5	2.0	1.0
HC77-2205	1.7	1.3	1.0	1.0	2.0	2.5	2.0	2.5	1.0
HC78-2826	2.4	3.3	1.5	1.5	2.0	2.5	3.0	3.5	1.5
HC78-2829	2.3	2.3	1.0	1.0	2.0	2.8	3.5	4.0	1.5
HC78-2866	2.1	2.0	1.0	1.0	2.0	2.0	4.0	3.5	1.5
HC79-1260	2.3	2.0	1.0	1.0	3.0	2.0	3.5	4.0	1.5
HC79-1273	2.2	2.8	1.0	1.0	2.0	2.0	3.0	4.0	1.5
HC79-1276	2.0	2.0	1.0	1.0	2.0	2.8	3.0	3.0	1.5
HC79-1334	2.0	2.3	1.0	1.0	2.0	2.8	3.0	2.0	1.5
HC79-1625	1.9	2.0	1.0	1.0	1.0	2.5	3.0	4.0	1.0
HC79-1644	2.0	1.8	1.0	1.0	2.0	2.3	3.5	3.0	1.0
HC79-1671	2.0	2.3	1.0	1.0	2.0	2.5	3.0	3.0	1.0
HC79-2547	2.1	2.0	1.5	1.0	2.0	2.5	3.0	3.0	1.5
HC79-3126	2.3	2.0	1.0	1.0	3.0	2.3	3.0	4.0	2.0
L78L-957	2.4	1.8	1.5	1.5	2.0	2.0	2.5	3.0	4.5
C1617	2.2	2.8	1.5	1.0	2.0	2.5	2.5	3.5	2.0
HW8141	2.7	3.8	2.5	1.5	3.0	3.0	2.0	4.0	2.0
HW8142	2.2	3.3	1.0	1.5	2.0	3.0	2.0	3.0	1.5
HW8143	2.5	3.5	1.5	1.0	2.0	3.8	3.0	3.0	2.0
K1089	2.5	3.0	2.0	1.0	3.0	2.8	3.0	3.5	1.5
K1090	2.2	2.8	1.5	1.0	2.0	1.5	2.5	4.5	1.5
Ky79-0237	2.4	3.0	2.0	1.5	2.0	1.5	3.0	4.0	2.0
Ky79-0840	2.2	3.3	1.5	1.0	2.0	3.0	2.5	3.0	1.0
LN80-6804	2.4	3.5	1.5	1.0	3.0	3.5	2.0	3.0	2.0
LN80-7319	2.4	3.3	1.0	1.0	2.0	3.8	3.0	3.0	2.0
LN80-8184	2.4	2.8	1.0	1.0	3.0	3.0	3.0	4.5	1.0
LS78W-110	2.5	3.5	1.0	1.0	3.0	3.3	2.5	4.0	1.5
LS78W-724-1	2.5	3.0	1.5	1.5	3.0	2.8	3.0	4.0	1.0
Md79-5043	2.1	2.8	1.0	1.0	3.0	2.3	3.0	2.5	1.0
Md79-5144	2.6	3.8	1.0	1.5	3.0	2.0	3.5	4.0	2.0
V78-1175	2.0	3.0	1.5	1.0	2.1	1.8	2.5	3.5	1.0
V78-1199	2.1	3.0	1.5	1.0	1.0	2.5	3.0	3.5	1.5

PRELIMINARY TEST IV, 1982

Strain	Mean 7 Tests	Ill. Eldo-rado	Ind. Sulli-van	Ks. Man-hattan	Ky. Lexing-ton	Md. Queens-town	Missouri Loam	Missouri Clay Portageville	Ohio Ripley
				SEED SIZE (g/100)					
Franklin	14.2	12.0	15.2	15.3	14.3	15.8	14.7		12.1
Union IV	16.8	14.0	16.8	19.5	15.9	17.6	17.9		15.9
Williams 82 (III)	16.1	13.1	17.0	19.0	14.3	18.7	17.0		13.5
Pixie	15.8	13.6	17.2	17.8	13.7	16.9	16.5		15.2
HC77-2205	12.3	10.0	13.4	14.4	9.8	14.9	13.0		10.9
HC78-2826	16.2	14.3	17.5	16.9	13.9	17.0	17.8		16.3
HC78-2829	15.1	12.2	16.1	16.6	12.9	16.2	17.1		14.9
HC78-2866	15.6	13.8	16.3	15.0	14.6	16.8	17.1		15.4
HC79-1260	15.6	13.7	16.8	16.5	12.7	16.5	16.8		16.3
HC79-1273	17.6	16.7	19.4	18.6	15.8	19.1	16.2		17.2
HC79-1276	17.0	14.6	20.1	17.8	15.5	18.0	17.9		15.4
HC79-1334	15.7	14.1	18.3	16.3	12.9	17.7	16.8		13.7
HC79-1625	16.2	13.4	18.2	18.1	13.8	16.6	18.0		15.0
HC79-1644	15.4	11.5	17.5	15.9	13.9	16.4	16.9		15.4
HC79-1671	16.7	14.3	18.5	16.0	14.3	18.3	20.3		15.5
HC79-2547	14.4	11.9	15.9	15.1	11.7	15.3	16.4		14.3
HC79-3126	15.7	13.7	17.9	15.6	14.7	16.5	15.3		15.9
L78L-957	14.4	14.0	15.3	15.6	14.7	15.5	15.8		9.8
C1617	17.2	14.3	17.5	20.2	15.6	18.1	18.0		16.7
HW8141	16.3	13.9	17.3	17.5	18.4	17.8	16.4		13.0
HW8142	14.7	11.6	15.0	17.5	12.8	16.8	15.3		13.8
HW8143	16.7	13.4	17.2	19.5	14.8	17.9	17.1		16.7
K1089	16.4	14.8	17.5	18.4	17.3	16.4	18.7		11.9
K1090	13.9	13.0	15.9	14.6	15.8	14.6	13.4		9.9
Ky79-0237	15.9	14.7	17.3	17.1	18.0	17.8	16.3		10.3
Ky79-0840	13.4	11.2	13.8	15.5	11.5	15.8	13.9		12.1
LN80-6804	15.8	12.8	15.7	18.6	14.8	18.4	15.4		14.8
LN80-7319	14.7	11.2	15.4	15.1	16.0	15.6	16.1		13.4
LN80-8184	15.6	12.0	15.0	16.2	17.1	17.2	18.4		13.4
LS78W-110	14.0	12.1	14.0	15.3	15.9	14.9	14.8		10.7
LS78W-724-1	13.9	12.8	14.5	14.9	15.6	14.9	14.3		10.3
Md79-5043	16.4	14.1	16.5	18.7	16.0	17.6	17.4		14.2
Md79-5144	16.4	13.7	18.1	16.8	18.2	18.4	16.4		13.2
V78-1175	15.3	13.1	16.1	16.9	14.4	17.6	15.9		13.2
V78-1199	15.1	12.4	16.0	17.6	13.1	17.1	15.9		13.8

PRELIMINARY TEST IV, 1982

Strain	Mean 5 Tests	Ill. Eldorado	Ind. Sullivan	Ks. Manhattan	Md. Queenstown	Missouri Loam Portageville
		PROTEIN (%)				
Franklin	38.6	37.7	37.6	41.1	38.8	37.9
Union IV	40.0	41.5	38.5	37.1	41.1	41.8
Williams 82 (III)	41.0	41.4	41.0	40.2	40.0	42.5
Pixie	41.4	41.7	41.4	40.5	42.0	41.6
HC77-2205	39.6	39.8	39.9	37.3	39.5	41.5
HC78-2826	40.8	41.0	43.2	40.3	40.9	38.5
HC78-2829	40.9	40.8	41.3	40.0	40.8	41.8
HC78-2866	42.1	40.9	42.9	40.9	42.1	43.5
HC79-1260	41.4	42.0	41.9	40.7	40.5	41.8
HC79-1273	40.9	40.6	41.5	39.5	41.4	41.4
HC79-1276	40.8	41.1	41.5	39.7	40.4	41.5
HC79-1334	40.7	40.6	42.2	39.3	39.5	41.9
HC79-1625	40.2	40.9	40.0	38.6	40.1	41.6
HC79-1644	40.2	40.1	40.7	39.3	39.0	41.9
HC79-1671	42.2	42.4	41.5	41.2	42.3	43.6
HC79-2547	41.0	41.1	42.8	38.4	40.1	42.6
HC79-3126	41.4	40.9	42.8	39.2	41.6	42.5
L78L-957	41.2	40.1	43.1	40.1	42.9	39.8
C1617	41.3	40.6	40.9	40.2	41.6	43.0
HW8141	39.7	38.1	39.4	39.6	39.8	41.5
HW8142	39.9	41.1	39.1	39.3	39.4	40.6
HW8143	39.2	39.9	37.6	37.9	40.2	40.4
K1089	41.5	40.6	42.0	40.6	43.0	41.3
K1090	40.6	40.3	40.5	39.3	41.7	41.4
Ky79-0237	41.9	41.5	42.5	41.1	41.5	42.8
Ky79-0840	41.6	41.6	40.7	42.0	41.1	42.8
LN80-6804	38.5	39.8	37.8	38.2	38.3	38.2
LN80-7319	40.3	40.3	38.4	39.7	40.6	42.3
LN80-8184	41.1	40.9	40.1	41.6	40.4	42.7
LS78W-110	38.8	37.3	39.2	36.5	40.6	40.3
LS78W-724-1	37.7	36.1	37.8	37.9	36.4	40.3
Md79-5043	42.6	43.0	39.6	43.0	43.1	44.1
Mc79-5144	40.1	39.4	39.4	39.8	40.1	41.7
V78-1175	42.3	42.2	41.3	42.7	41.6	43.8
V78-1199	41.7	42.0	41.5	40.6	41.2	43.3

PRELIMINARY TEST IV, 1982

Strain	Mean 5 Tests	Ill. Eldo-rado	Ind. Sulli-van	Ks. Man-hattan	Md. Queens-town	Missouri Loam Portageville
		OIL (%)				
Franklin	19.5	19.5	19.2	18.4	19.6	20.9
Union IV	19.0	18.7	19.6	18.6	18.5	19.5
Williams 82 (III)	19.2	18.8	18.8	19.0	19.6	19.9
Pixie	18.7	18.5	17.5	18.1	18.1	21.5
HC77-2205	19.3	19.2	18.0	19.1	19.6	20.6
HC78-2826	19.1	19.4	17.5	19.0	18.0	21.5
HC78-2829	19.2	18.7	18.8	18.9	18.9	20.9
HC78-2866	18.8	19.0	17.7	18.5	19.0	19.9
HC79-1260	19.4	19.0	18.6	19.3	19.5	20.5
HC79-1273	19.1	18.8	18.7	18.6	19.5	20.1
HC79-1276	19.3	19.2	18.9	19.1	18.9	20.6
HC79-1334	20.0	20.2	19.6	19.5	20.4	20.5
HC79-1625	19.9	19.5	19.8	19.8	20.0	20.6
HC79-1644	20.5	20.1	19.6	20.2	21.2	21.3
HC79-1671	18.6	18.5	18.3	18.5	18.2	19.3
HC79-2547	19.1	17.9	17.7	19.5	20.8	19.8
HC79-3126	18.9	19.3	18.1	18.8	18.2	20.0
L78L-957	17.9	18.9	16.8	17.2	17.0	19.5
C1617	18.7	18.7	18.6	18.4	19.2	18.6
HW8141	18.8	18.9	19.0	18.3	18.9	18.9
HW8142	19.3	18.5	19.0	19.3	19.6	20.2
HW8143	19.6	18.8	20.1	19.1	19.6	20.6
K1089	18.4	18.8	17.8	18.1	17.5	19.7
K1090	18.5	18.8	18.9	18.2	17.7	18.6
Ky79-0237	18.2	18.4	17.7	18.0	19.1	17.8
Ky79-0840	18.9	18.1	19.0	18.6	19.8	19.0
LN80-6804	19.6	18.7	19.5	19.8	19.5	20.5
LN80-7319	17.6	17.1	18.1	17.3	18.1	17.5
LN80-8184	18.6	18.1	18.6	17.8	19.8	18.8
LS78W-110	18.7	19.5	18.6	18.5	17.8	19.2
LS78W-724-1	19.6	20.7	19.4	18.4	20.0	19.4
Md79-5043	17.7	17.3	18.9	16.8	17.7	18.1
Md79-5144	18.7	19.1	18.6	18.4	18.9	18.6
V78-1175	18.4	17.1	18.4	17.8	19.3	18.6
V78-1199	18.6	18.4	17.4	19.0	18.9	19.1