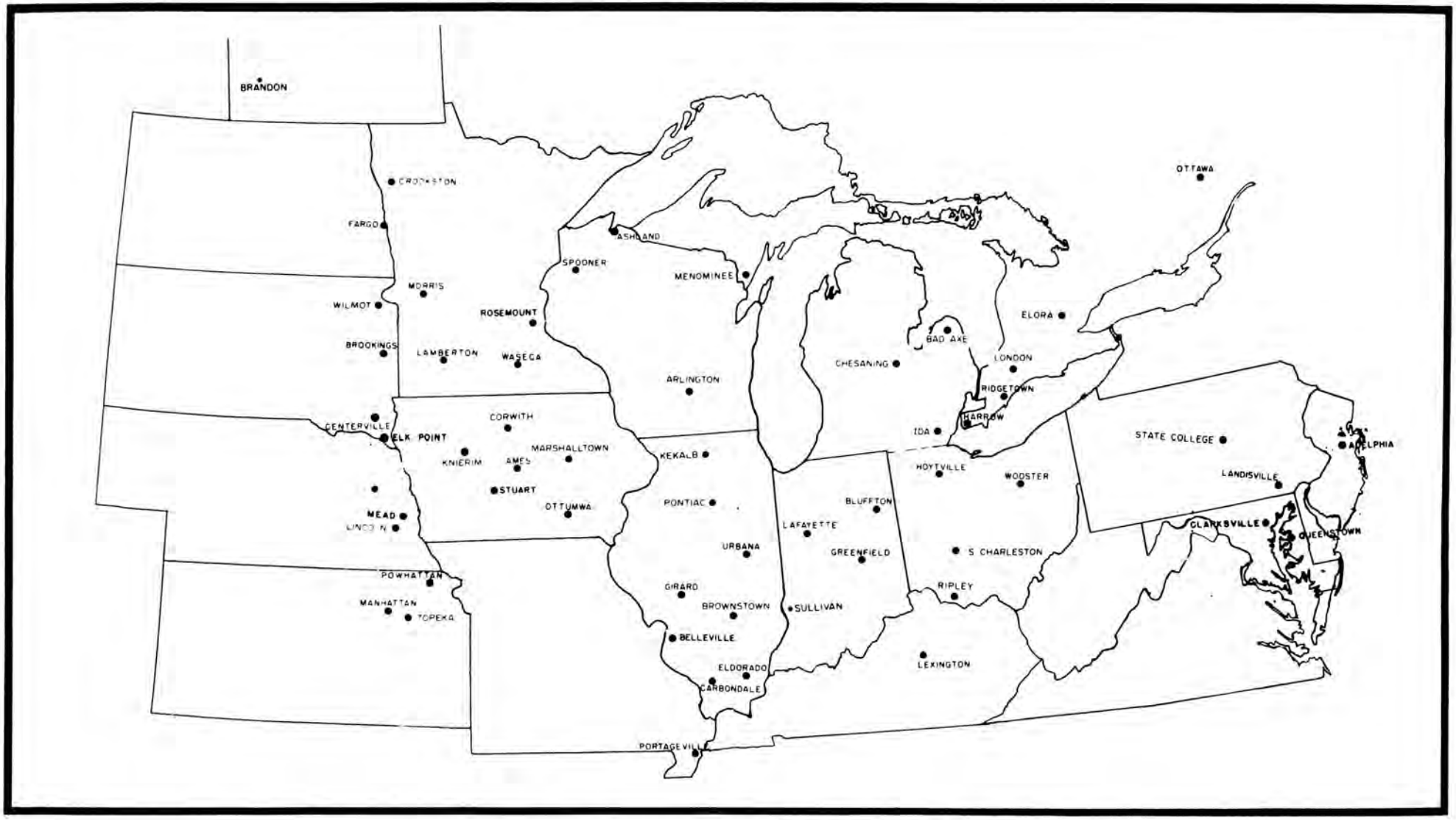

LOCATIONS OF UNIFORM SOYBEAN TESTS, NORTHERN STATES, 1983

THE UNIFORM SOYBEAN TESTS

NORTHERN STATES

1983

Compiled by:

J. R. Wilcox, USDA-ARS
Agronomy Department
Rm 2-310 Lilly Hall, Purdue University
West Lafayette, Indiana 47907
Tel. 317-494-8074

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 Statements or data in the report, therefore, should not be published unless permission has been obtained previously by those concerned.

UNIFORM TEST PARTICIPANTS--1983

G. R. Ablett
Ridgetown College of
Agricultural Technology
Ridgetown, Ontario, Canada
Ph. 519-674-5456 Ext. 242

T. S. Abney, USDA-ARS
Department of Botany
and Plant Pathology
Purdue University
W. Lafayette, IN 47907
Ph. 317-494-4650

S. Anand
University of Missouri
Delta Research Center
Portageville, MO 63873
Ph. 314-379-5431

K. L. Athow
Department of Botany
and Plant Pathology
Purdue University
W. Lafayette, IN 47907

R. L. Bernard, USDA-ARS
Turner Hall - Agronomy
1102 S. Goodwin
Univeristy of Illinois
Urbana, IL 61801
Ph. 217-333-4639
958

W. D. Beversdorf
Crop Science Department
University of Guelph
Guelph, Ontario, Canada
Ph. 519-824-4120 Ext. 3596

J. J. Bonneman
Plant Science Department
Box 2207A
South Dakota State University
Brookings, S.D. 57007
Ph. 605-692-5389

R. D. Brigham
Texas Agricultural Experiment
Station
Route #3
Lubbock, TX 79401
Ph. 806-746-6101

G. R. Buss
Department of Agronomy
Virginia Polytechnic Institute
and State University
Blacksburg, VI 24061

R. I. Buzzell
Agriculture Canada
Research Station
Harrow, Ontario, Canada NOR 1GO
Ph. 519-738-2251

R. L. Cooper, ARS, USDA
Department of Agronomy
OARDC
Wooster, OH 44691
Ph. 216-263-3875 Ext. 191

J. M. Dunleavy
417 Bessey Hall
Iowa State University
Ames, IA 50011
Ph. 515-294-1741

W. R. Fehr
Department of Agronomy
Iowa State University
Ames, IA 50011
Ph. 515-294-9818
FTS 865-2072

E. T. Gritton
Rm. 245, Moore Hall
Department of Agronomy
University of Wisconsin
Madison, WI 53706
Ph. 608-262-9539

T. G. Isleib
Department of Crop and Soil
Sciences
Soil Science Building
Michigan State University
East Lansing, MI 48824
Ph. 517-353-4587

UNIFORM TEST PARTICIPANTS--1983

D. G. Helsel
Department of Agronomy
University of Missouri
Columbia, MO 65201

J. R. Justin
Soils and Crops Department
Lipman Hall
Cook College
Box 231
New Brunswick, NJ 08903
Ph. 201-932-9872

W. J. Kenworthy
Department of Agronomy
University of Maryland
College Park, MD 20742
Ph. 301-454-4695

F. A. Laviolette
Department of Botany
and Plant Pathology
Purdue University
W. Lafayette, IN 47907
Ph. 317-474-4649

R. H. Leep
Upper Penninsula Extension
Center
1850 Presque Isle
Marquette, MI 49855
Ph. 906-228-4830

O. Myers, Jr.
Department of Plant and
Soil Science
Southern Illinois University
Carbondale, IL 62901
Ph. 618-453-2496

S.K. St. Martin
Department of Agronomy
The Ohio State University
Columbus, OH 43210
Ph. 614-422-2002

C. D. Nickell
Turner Hall - Agronomy
1102 South Goodwin
University of Illinois
Urbana, IL 61801
Ph. 217-333-1279

J. H. Orf
Department of Agronomy
University of Minnesota
St. Paul, MN 55108
Ph. 612-373-0861 Office
612-373-1516 Lab

T. W. Pfeiffer
Department of Agronomy
N106 Ag. Science Bldg. North
Lexington, KY 40546
Ph. 606-257-4678

W. T. Schapaugh, Jr.
Department of Agronomy
Throckmorton Hall
Kansas State University
Manhattan, KS 66506
Ph. 913-532-7242

A. F. Schmitthenner
Ohio Agricultural Center
Department of Plant Pathology
Wooster, OH 44691
Ph. 216-264-1021

H. Tachibana, USDA-ARS
Department of Botany
and Plant Pathology
Iowa State University
Ames, IA 50011
Ph. 515-294-3660

H. D. Voldeng
Forage Section, Bldg. #12
Ottawa Research Station
Ottawa, Ontario, Canada KIA OC6
Ph. 613-996-3919

UNIFORM TEST PARTICIPANTS--1983

D. A. Whited
Department of Agronomy
Walster Hall
North Dakota State University
Fargo, ND 58105
Ph. 701-237-8167

J. R. Wilcox, USDA-ARS
Department of Agronomy
Purdue University
W. Lafayette, IN 47907
Ph. 317-494-8074 Office
317-583-2952 Lab

J. H. Williams
319 Keim Hall
East Campus
University of Nebraska
Lincoln, NE 68583
Ph. 402-472-1537

E. L. Wisk
University of Delaware
Substation
R.D. 2, Box 47
Georgetown, DE 19947
Ph. 302-856-5254

J. O. Yocum
Southeastern Field
Research Lab
Box 308
Landisville, PA 17538
Ph. 717-653-4728

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, LG - R. Nelson, LN - C. D. Nickell, LS - O. Myers)
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 - 1983

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 O for Uniform Test O, 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~~ Kilograms/hectare multiply by 67.25).

Maturity is the date when 95% of the pods have ripened. Delayed leaf drop and green stems are not considered in assigning maturity. Maturity is expressed as days earlier (-) or later (+) than the average date of the reference variety. To aid in maturity group classification, one earlier and one later "tie" variety are given on the maturity table for each test. Current reference and tie varieties and the maturity group limits relative to the reference varieties are:

Group	Reference	Range	Early Tie	Late Tie
00	McCall	-7 to +5		Clay (0)
0	Evans	-5 to +3	McCall (00)	Hodgson 78 (I)
I	Hodgson 78	-3 to +5	Evans (0)	Corsoy 79 (II)
II	~~Corsoy~~ Elgin 79	-3 to +5	Hardin (I)	Pella (III)
III	~~Cumberland~~ Harper	-5 to +3	Century (II)	Sparks (IV)
IV	Sparks	-3 to +8	Williams 82 (III)	Douglas (IV)

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

Lodging is rated at maturity according to the following scores:

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

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

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

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

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

Seed Composition is measured on sample submitted to the Laboratory. A 60 to 70-gram sample of clean seeds is prepared by taking an equal volume or weight of seeds from each replication. Protein and oil percentages are measured using Infrared reflectance.

Descriptive Code: 1 2 3 4 5 6, abbreviated as underlined below:

1 = Flower Color: Purple, White
2 = Pubescence Color: Tawny, Gray, Light tawny
3 = Pod Color: Brown, Tan
4 = Seed Coat Luster: Dull, 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 $\pm$ 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.

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

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

POLICY ON TESTING AND RELEASE OF STRAINS

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

Development and release of soybean strains is carried out by many public institutions. The programs at these institutions operate independently until strains are available for advanced testing in the Uniform Soybean Tests. The Uniform Soybean Tests are coordinated by 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 1983

Variety	Experimental Designation	Uniform Test Evaluations	Release date	Releasing States	Foundation Seed Production
Keller	Beeson 80 BC_6	UT II, 1982	Aug. 1, 1983	Ind. Ohio	1982
Chico	M74-355	UT O, 1983	Feb. 15, 1983	Minn.	1982
CN 210	L76-141B	UT II, 1983	Dec. 1, 1983	Ill., Ia.	1983
CN 290	L76-129B	UT II, 1983	Dec. 1, 1983	Ill., Ia.	1983
Dawson	M70-128E	UT O, 1981-1983	Feb. 15, 1983	Minn., N.D., S.D.	1982
Elgin	A79-133019	UT II, 1981-1983; UP I, 1980	Aug. 1, 1983	Ill. Ia. Neb. Ohio S.D. Wisc.	1983
Ozzie	M71-43	UT O, 1979-1983	Feb. 15, 1983	Minn., N.D., S.D., Wisc.	1982
Harper	A79-336014	UT III, 1981-1983; UP III, 1980	Aug. 1, 1983	Ill. Ia. Ind. Kan. Neb. Ohio	1983

UNIFORM TEST LOCATIONS - 1983

Location		Conducted by	Uniform Tests						Preliminary Tests					
			00	0	I	II	III	IV	I	IIA	IIB	IIIA	IIIB	IV
IA	Ames	W.R. Fehr				X				X	X			
	Corwith	W.R. Fehr			X				X					
	Knierim	W.R. Fehr			X				X					
	Marshalltown	W.R. Fehr				X				X	X			
	Ottuma	W.R. Fehr					X					X	X	
	Stuart	W.R. Fehr					X					X	X	
IL	Belleville	R.L. Bernard					X	X						
	Cardondale	O. Meyers, Jr.						X						
	DeKalb	C.D. Nickell			X	X								
	Eldorado	R.L. Bernard					X	X						X
	Girard	R.L. Bernard					X							
	Pontiac	C.D. Nickell				X	X							
	Urbana	C.D. Nickell								X	X			
	Urbana	R.L. Bernard				X	X					X	X	
IN	Bluffton					X	X							
	Greenfield					X	X	X						
	Lafayette				X	X	X	X		X	X	X	X	
	Sullivan						X	X						X
KS	Manhattan	W.T. Schapaugh, Jr.					X	X				X	X	X
	Powhattan	W.T. Schapaugh, Jr.					X	X						
	Topeka	W.T. Schapaugh, Jr.					X							
KY	Lexington	T. Pfeiffer					X	X				X	X	X
Man.	Brandon	H.D. Voldeng	X											
MD	Queenstown	W.J. Kenworthy & P.B. Creegan					X	X						X
MI	Bad. Axe, Huron Co.	T.G. Isleib		X										
	Chesaning, Sag. Co.	T.G. Isleib			X	X			X	X	X			
	Ida, Monro Co.	T.G. Isleib			X	X								
	Upper Peninsula	R.H. Leep	X											
MN	Crookston	J.H. Orf	X											
	Lamberton	J.H. Orf			X	X			X					
	Morris	J.H. Orf	X	X										
	Rosemount	J.H. Orf	X	X										
	Waseca	J.H. Orf			X	X			X					
MO	Portageville	S. Anand						X						
NE	Lincoln	J.H. Williams						X						
	Mead	J.H. Williams			X	X	X			X	X	X	X	
N.J.	Adelphia	J.R. Justin				X	X	X		X	X			
ND	Fargo	D.H. Whited	X	X										
OH	Hoytville	R.J. Fioritto				X	X			X	X	X	X	
	S. Charleston	R.L. Cooper					X	X			X	X		
	Wooster	R.J. Fioritto				X	X							
	Ripley	R.L. Cooper					X	X						X

UNIFORM TEST LOCATIONS - 1983

Location		Tests Conducted by	Uniform Tests						Preliminary Tests					
			00	0	I	II	III	IV	I	IIA	IIB	IIIA	IIIB	IV
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										
	London	W.D. Beversdorf			X									
PA	Landisville	J.O. Yocum					X	X						
	State College	J.O. Yocum			X	X								
TX	Lubbock	R.D. Brigham						X						
SD	Brookings	J.J. Bonneman			X	X			X					
	Centerville	J.J. Bonneman				X				X	X			
	Elk Point	J.J. Bonneman					X					X	X	
	Wilmot	J.J. Bonneman		X	X									
WI	Arlington	E.T. Gritton			X	X			X	X	X			
	Ashland	E.T. Gritton	X											
	Spooner	E.T. Gritton		X										
No. Locations with agronomic data (X)			9	8	15	22	24	17	8	10	10	10	10	6
No. with seed composition data (X)			5	5	5	5	5	4	3	5	5	5	5	3

1982 Disease, Shattering, and Descriptive Data

Location		Tests Conducted by	Test	U.T.	P.T.
IA	Ames	J. Dunleavy	BTS	00-IV	-
	Ames	W.R. Fehr	Chlorosis	00-IV	I-IV
	Ames	W.R. Fehr	Emergence	00-IV	-
	Ames	H. Tachibana	BSR	00-IV	I-IV
IL	Eldorado	R.L. Bernard	CR	III	IV
	Eldorado	R.L. Bernard	Mottling	-	IV
	Eldorado	R.L. Bernard	Shattering	-	IV
	Pontiac	C.D. Nickell	Shattering	II	-
	Urbana	R.L. Bernard	Shattering	-	III
	Urbana	C.D. Nickell	Shattering	II	-
IN	Lafayette	K.L. Athow & F.A. Laviolette	BSR, PR_1	00-IV	I-IV
	Lafayette	T.S. Abney & T.L. Richards	PS, PSB, SMV, Germ Hard seed, Green Seed	00-IV	I-IV
KS	Manhattan	W.T. Schapaugh, Jr.	Shattering	00-IV	I-IV
MD	Queenstown	W.J. Kenworthy & P.B. Creegan	PS	III-IV	IV
MN	Lamberton	J.H. Orf	Chlorosis, BSR	00-IV	-
PA	State College	J.O. Yocum	Shattering	II	-

Strain	Parentage or Source
A2	(M404 x M406) x C1453
A72-507	Amsoy x Wayne
A72-512	Amsoy x Wayne
A73-19084	IVR Ex5003 x Wells
A73-21030	L65-1342 x IVR Ex 4311
A74-204034	Grant x (Lincoln x Hawkeye) x Amsoy[8] x (Blackhawk x Harosoy)
A74-302012	L66L-137 x Calland
A75-102032	C1453 x Swift
A75-103019	AP6(S1) CO
A75-105021	Corsoy[2] x (Mack x L65-1342 or Anoka)
A75-204018	IVR Ex 4731 x Wirth
A75-305022	Wye x (Amsoy x Wayne)
A75-332035	L15 x AP68-1016
A76-103002	AP6
A76-201009	AP6
A76-202015	AP6
A76-304005	AP6
A76-304020	(Beeson x AP68-1016) x (L15 x Calland)
A77-116023	Intermated population for BSR resistance
A77-211021	Beeson x A72-507
A77-314013	A73-21030 x Williams
A77-316022	Intermated population for BSR resistance
A78-125026	(Beeson x AP68-1022) x NK 846 Exp.
A78-326017	(CX407 BC-326 x AP68-1022) x C1520
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
Asgrow 2656	Clark[5] x PI 84.946-2
Asgrow A3585	L66L-140 x Cutler
AX56P64-1	Amsoy
AX860-1	Wye x (Amsoy x Wayne)
AX901-40-2	Beeson x AP68-1022
C1069	Lincoln x Ogden
C1070	Ogden x Kent

Strain	Parentage or Source
C1223	C1070 x Adams
C1253	Blackhawk x Harosoy
C1266R	Harosoy x C1069
C1453	C1266R x C1253
C1317	C1223 x Mukden
C1512	CX413 x CX412
C1520	Bonus x Cutler
CS407	Amsoy x C1253
CX412	Wayne x C1317
CX413	CX407 x CX412
D66-5566	Contact R.L. Cooper
D68-18	Contact O. Myers, Jr.
HC74-3386	S100 x CNS
Hy Vigor Rowtunda	unknown
HW6942-15-6	Calland x Beeson
IVR 1120	Provar x (AX56P64-1 x PI 191110-1)
IVR Ex 4311	Hark x Wayne
IVR Ex 4731	Contact W.R. Fehr
IVR Ex 5003	Provar x (AX56P64-1 x PI 191110-1)
J74-5	Forrest x (D68-18 x PI 88.788)
JA 42	Kogane-Jiro
JA 45	PI 196163
K74-104-75-85	Tracy x Williams
K74-108-75-169	Williams x D60-9647
K74-114-75-000	Tracy x Bonus
K1028	Williams x Calland
K1034	Williams x Calland
L11	$\underline{I}$ r from (Clark^{6} x T201) x (Clark^{6} x T145)
L12	$\left[\left(\text{Clark}^{6} \times \text{CNS}\right) \times \left(\text{Clark}^{8} \times \text{Blackhawk}\right)\right] \times \left[\left(\text{Clark}^{6} \times \text{T201}\right) \times \left(\text{Clark}^{6} \times \text{T145}\right)\right]$ $\underline{I}$ $\underline{r}$ $\underline{Rps}_1$ $\underline{rxp}$
L15	Wayne^{6} x Clark 63 ($\underline{Rps}_1$)
L57-0034	Clark x Adams
L62-535	Harosoy^{6} x T145
L65-1342	Wayne^{2} x Clark $\underline{e}_2^2$
L66-1322	(Hawkeye x Lee)^{2}
L66L-137	Wayne x L57-0034
L66L-140	Wayne x L57-0034
L69U37-17-5	Calland x Corsoy

Strain	Parentage or Source
L69U40-16-4	Calland x Amsoy
L70-2283	Chippewa 64 x Custer
L70D-6-16	Harosoy ln x (C1253 x Kent)
L70T-543G	L15 x Amsoy 71
L71-2855	Beeson x SL12
L71-3628	L67-1322 x L62-535
L71L-436	L12 x Custer
L72U-2567	Williams x Ransom
L73-6356	L12 x Custer (from L71L-436)
L74D-200	Contact R.L. Cooper
L74D-619	Williams x Ransom
L74D-674	Amsoy 71 x Ransom
L75-8003	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
M62-93	Merit x M54-110
M63-158	PI 261475 x Pridesoy II
M64-3	Traverse x JA45
M64-157	Merit x Amsoy
M65-69	M54-12 x Corsoy
M65-94	M54-12 x Corsoy
M65-227	057-2921 x JA42
M65-442	Anoka x Amsoy
M66-18	Clay x Altona
M68-2	Wilkin x M59-120
M68-49-26	Evans x M59-120
M68-96	M59-120 x Amsoy 71
M68-256	Evans x Steele
M68-303	M60-406 x Beeson

Strain	Parentage or Source
M69-20	Merit x Clay
M69-45	M63-158 x Provar
M70-187	Merit x SS65-5702
M70-271	Merit x M64-3
M70-330	M62-93 x M64-3
M402	Renville x Capital
M406	Harosoy x Norchief
Md71-1643-82	Adelphia x PI 157483
N69-2774	unknown
NAPB HP 20-20	Clay x Williams
NK S1492	Corsoy x Wayne
NK S4055	Beeson x Cutler
Peterson 85	Provar x (Amsoy x PI 248.404)
Peterson Px20	Peterson Seed Co.
Pfizers CX290	Contact C.D. Nickel
Pride B-216	Corsoy x Wayne
Pridesoy II	unknown
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)
Tri-Valley Charger	IVR 1120 x SL12
V68-1034	York x PI 171506
V71-807	Contact S. Anand
057-2921	Blackhawk x Capital
554-3	Hodgson^{4} x Merit
554-8	Hodgson x Merit
554-10	Hodgson^{4} x Merit
840-70-3	Strain from Sven A. Holmberg, Sweden

UNIFORM TEST 00, 1983

Descriptive and Other Data

Strain	Parentage	Previous Testing*	Generation Composited
1. Clay (0)	Capital x Renville	6	F_5
2. Maple Amber	840-70-3 x (Harosoy 63 x Altona)	3	F_6
3. Maple Presto	(Amsoy x Portage) x 840-70-3	5	F_5
4. McCall (00)	(Acme x Chippewa) x Hark	10	F_5
5. OAC-81-2	Harosoy 63 x Fiskeby V	-	F_7
6. OT80-12Y	Fiskeby III x Evans	-	F_5
7. OT81-5	(Harosoy e_3)^2 x PI 194.641	1	F_5

*Number of years in test or name of 1982 test

Descriptive and Other Data

Strain	Descriptive Code	Chlorosis Score		Emergence Score	Shattering Score
		Ames	Lamberton	Ames	Manhattan
Clay (0)	PGBr SYY I	2.5	2.4	1	1
Maple Amber	PTBr DYG I	3.0	4.2	1	1
Maple Presto	PTBr IYBr I	1.7	3.6	1	2
McCall (00)	PGBr DYY I	1.3	2.8	1	1
OAC-81-2	PTBr DYBr I	3.7	4.8	1	-
OT80-12Y	PTBr IYY I	1.3	3.8	1	1
OT81-5	PTBr DYBr I	2.3	3.2	2	2

UNIFORM TEST 00, 1983

Disease Data

Strain	BSR				BTS	PR_1
	Ames		Lafayette	St. Paul		
	Plant	Stem	Stem	Stem	Ames	Lafayette
	n %	n %	n %	n %	a Score	a --Reaction--
Clay (0)	80	48.9	20	70	5	S
Maple Amber	100	73.5	0	75	2	R
Maple Presto	60	48.4	0	50	2	R
McCall (00)	100	57.3	40	95	4	S
OAC-81-2	90	73.4	20	100	-	R
OT80-12Y	80	45.1	0	100	2	S
OT81-5	90	50.7	0	65	3	H

Strain	PS	PSB	SMV	Germ	Hard Seed	Green Seed
			Lafayette			
	a %	n %	a Score	%	%	%
Clay (0)	1	0	5E	50	13	23
Maple Amber	0	0	5E	65	2	7
Maple Presto	0	0	5E	50	16	8
McCall (00)	4	0	4E	72	20	12
OAC-81-2	-	0	-	-	-	-
OT80-12Y	0	0	4E	85	0	2
OT81-5	6	0	3E	82	0	1

UNIFORM TEST 00, 1983

Regional Summary

Strain	Yield	Rank	Maturity	Lodging	Plant Height	Seed Quality	Seed Size	Composition	
								Protein	Oil
No. of Tests	8	8	8	8	8	7	8	5	5
	bu/a	No.	Date	Score	In.	Score	g/100	%	%
Clay (0)	31.5	3	+3.3	1.5	24	2.3	16.7	41.6	21.1
Maple Amber	26.5	5	-5.1	1.3	24	2.2	16.7	41.6	21.7
Maple Presto	25.0	7	-14.1	1.2	21	3.1	15.8	39.3	22.3
McCall (00)	32.8	1	9-12.0*	1.4	25	2.0	15.3	40.6	20.6
OAC-81-2	32.3	2	+5.3	1.6	29	2.1	19.8	42.5	21.1
OT80-12Y	27.8	4	-8.4	1.2	21	2.4	15.5	41.0	21.0
OT81-5	25.8	6	-1.8	1.3	22	2.5	18.1	40.8	21.4

*112 days after planting

1982-1983, 2-year mean

No. of Tests	16	16	15	16	16	15	16	12	12
Clay (0)	30.2	2	+4.6	1.8	26	2.2	15.6	40.2	18.9
Maple Amber	28.2	3	-4.1	1.3	26	1.9	16.0	40.2	20.1
Maple Presto	25.0	5	-13.6	1.2	22	2.8	15.0	37.7	20.4
McCall (00)	32.0	1	9-12.5*	1.6	26	1.9	14.4	38.9	18.7
OT81-5	27.8	4	-1.9	1.2	24	2.2	16.8	38.8	19.6

*112 days after planting

1980-1983, 4-year mean

No. of Tests	30	30	29	30	30	29	30	21	21
Clay (0)	35.9	2	+4.3	1.9	28	2.2	16.1	41.1	19.3
Maple Amber	32.3	3	-5.2	1.5	27	2.0	16.1	41.1	20.0
Maple Presto	26.1	4	-13.5	1.2	22	2.9	15.1	38.4	20.3
McCall (00)	37.1	1	9-12.4*	1.7	28	1.9	14.9	39.9	18.8

*112 days after planting

UNIFORM TEST 00, 1983

Strain	Mean 8 Tests	Man. Brandon	Ont. Elora	Ont. Ottawa
		YIELD (bu/a)		
Clay (0)	31.5	19.2	30.2	44.8
Maple Amber	26.5	15.7	22.2	29.9
Maple Presto	25.0	13.1	20.3	28.9
McCall (00)	32.8	20.2	31.3	39.2
OAC-81-2	32.3	21.4	27.0	45.6
OT80-12Y	27.8	17.9	21.6	35.5
OT81-5	25.8	16.3	24.0	33.9
C.V. (%)		9.1	13.6	11.0
L.S.D. (5%)		15.0	5.1	5.6
Row sp. (in.)		9	14	16
Rows/plot		4	4	4
Reps		4	4	4
	8 Tests -	YIELD RANK		
Clay (0)	3	3	2	2
Maple Amber	5	6	5	6
Maple Presto	7	7	7	7
McCall (00)	1	2	1	3
OAC-81-2	2	1	3	1
OT80-12Y	4	4	6	4
OT81-5	6	5	4	5
	8 Tests -	MATURITY (date)		
Clay (0)	+3.3	+6	+5	+2
Maple Amber	-5.1	-3	-4	-4
Maple Presto	-14.1	-21	-11	-11
McCall (00)	9-12.0	9-19	9-4	9-11
OAC-81-2	+5.3	+4	+6	+5
OT80-12Y	-8.4	-10	-7	-6
OT81-5	-1.8	-6	+1	-5
Date planted	5-23	5-30	5-27	5-27
Days to mature	112	112	100	107

UNIFORM TEST 00, 1983

Mich.	Minnesota			Wis.
Upper Pen.	Crookston	Morris	Rosemount	Ashland
		YIELD (bu/a)		
39.2	25.5	30.9	32.3	29.5
34.7	21.3	32.3	28.5	27.1
31.3	27.9	27.8	22.2	18.1
45.0	29.1	33.8	35.5	28.3
36.0	23.3	37.5	35.9	31.7
39.5	27.6	28.3	25.4	26.7
36.0	21.7	24.7	29.3	20.5
5.3	18.9	16.6	9.7	15.7
6.2	8.1	9.1	5.1	7.5
15	12	30	30	24
4	8	4	4	4
3	3	3	3	3
		YIELD RANK		
3	4	4	3	2
6	7	3	5	4
7	2	6	7	7
1	1	2	2	3
4	5	1	1	1
2	3	5	6	5
4	6	7	4	6
		MATURITY (date)		
+6	+5	+6	-6	+2
-2	-5	-4	0	-19
-8	-16	-12	-9	-25
9-12	9-18	8-26	9-1	10-6
+4	+5	+10	+8	0
-4	-11	-5	-9	-15
-1	-5	-1	+2	+1
6-3	5-18	5-5	5-20	5-23
101	123	113	104	136

UNIFORM TEST 00, 1983

Strain	Mean 8 Tests	Man. Brandon	Ont. Elora	Ont. Ottawa
		LODGING (score)		
Clay (0)	1.5	1.0	1.0	1.5
Maple Amber	1.3	1.0	1.0	1.0
Maple Presto	1.2	1.0	1.0	1.0
McCall (00)	1.4	1.0	1.0	1.0
OAC-81-2	1.6	1.0	1.0	1.8
OT80-12Y	1.2	1.0	1.0	1.0
OT81-5	1.3	1.0	1.0	1.0
	8 Tests -	PLANT HEIGHT (inches)		
Clay (0)	24	21	18	30
Maple Amber	24	25	17	26
Maple Presto	21	23	17	24
McCall (00)	25	25	16	28
OAC-81-2	29	28	20	36
OT80-12Y	21	25	15	26
OT81-5	22	24	16	23
	7 Tests -	SEED QUALITY (score)		
Clay (0)	2.3	1.5	1.5	2.1
Maple Amber	2.2	1.8	2.0	1.3
Maple Presto	3.1	2.0	2.5	3.0
McCall (00)	2.0	1.0	1.5	2.2
OAC-81-2	2.1	1.3	2.0	1.5
OT80-12Y	2.4	1.0	1.5	2.3
OT81-5	2.5	1.8	1.5	2.0

UNIFORM TEST 00, 1983

Mich.	Minnesota			Wis.
Upper Pen.	Crookston	Morris	Rosemount	Ashland
		LODGING (score)		
1.8	2.7	1.0	1.3	1.7
1.3	2.3	1.0	1.0	2.0
1.3	2.0	1.0	1.0	1.0
1.7	2.7	1.0	1.0	1.7
2.0	3.0	1.3	1.3	1.7
1.8	2.0	1.0	1.0	1.0
1.3	2.7	1.0	1.0	1.3
		PLANT HEIGHT (inches)		
27	28	22	28	19
25	25	24	27	19
26	20	18	20	18
29	31	26	30	17
31	31	26	32	24
24	22	18	22	17
26	24	20	23	17
		SEED QUALITY (score)		
	2.3	2.7	3.0	3.3
	2.3	2.3	2.7	2.7
	3.7	2.3	4.0	4.0
	2.7	1.7	2.7	2.0
	2.7	1.7	3.0	2.3
	3.0	2.0	3.7	3.0
	2.7	2.0	3.7	3.7

UNIFORM TEST 00, 1983

Strain	Mean 8 Tests	Man. Brandon	Ont. Elora	Ont. Ottawa
		SEED SIZE (g/100)		
Clay (0)	16.7	15.0	16.9	17.0
Maple Amber	16.2	15.0	17.6	17.0
Maple Presto	15.8	13.0	15.7	17.0
McCall (00)	15.3	13.0	15.6	16.0
OAC-81-2	19.8	18.0	21.4	21.0
OT80-12Y	15.5	13.0	15.0	16.0
OT81-5	18.1	15.0	17.3	18.0

Strain	Mean 5 Tests	Ont. Elora	Mich. Upper Pen.	Minnesota Crookston	Minnesota Rosemount	Wis. Ashland
			PROTEIN (%)			
Clay (0)	41.6	43.5	40.3	40.2	41.6	42.6
Maple Amber	41.6	43.7	40.8	39.5	40.7	43.3
Maple Presto	39.3	40.8	36.0	39.4	39.7	40.8
McCall (00)	40.6	41.7	40.3	38.7	40.1	42.2
OAC-81-2	42.5	45.5	41.6	39.7	42.4	43.4
OT80-12Y	41.0	43.0	39.4	38.8	41.1	42.9
OT81-5	40.8	41.6	38.4	40.6	39.5	44.0

UNIFORM TEST 00, 1983

Mich.	Minnesota			Wis.
Upper Pen.	Crookston	Morris	Rosemount	Ashland
		SEED SIZE (g/100)		
18.0	16.2	17.5	16.0	17.2
18.3	14.5	15.5	13.6	18.3
16.3	14.8	17.6	13.4	18.7
18.3	14.2	14.9	13.0	17.1
24.7	17.0	19.1	14.6	22.8
17.3	14.0	15.4	13.7	19.2
20.7	16.6	18.0	17.8	21.5

	Mean	Ont.	Mich.	Minnesota		Wis.
Strain	5 Tests	Elora	Upper Pen.	Crookston	Rosemount	Ashland
			OIL (%)			
Clay (0)	21.1	19.8	21.3	22.0	22.0	20.5
Maple Amber	21.7	20.3	22.1	22.3	22.0	21.7
Maple Presto	22.3	20.8	22.8	23.3	22.3	22.2
McCall (00)	20.6	19.8	20.5	21.2	21.1	20.5
OAC-81-2	21.1	19.5	21.4	21.9	21.8	20.9
OT80-12Y	21.0	19.4	22.8	21.4	20.8	20.8
OT81-5	21.4	20.6	21.3	21.6	22.8	20.5

UNIFORM TEST 0, 1983

Strain	Parentage	Previous* Testing	Generation Composited
1. Chico	[Evans x (Merit x Lee)] x [(M65-69) x (M65-227)]	-	F_5
2. Dawson	Evans x M63-217Y	2	F_5
3. Evans (0)	Merit x Harosoy	13	F_5
4. Hodgson 78 (I)	Hodgson[7] x Merit	6	F_5
5. McCall(00)	(Acme x Chippewa) x Hark	3	F_5
6. Ozzie	Wilkin x M63-217Y	4	F_5
7. Simpson	Steele x Hodgson	4+	F_5
8. M72-127	Evans x "unknown"	2	F_5
9. M74-12	Evans x Peterson 85	2	F_5
10. M74-23	M68-2 x Hodgson	2	F_5
11. M75-25	Evans x M66-18	1	F_5
12. M75-244	Evans x A73-19084	-	F_5
13. M76-49	M68-49-26 x McCall	-	F_5
14. M76-50	M68-49-26 x McCall	-	F_5
15. M76-149	M70-271 x [Hodgson[6] x Merit]	-	F_5

*Number of years in test or name of 1982 test.
+1978 to 1982

Descriptive and Other Data

Strain	Descriptive Code	Chlorosis Score		Emergence Score	Shattering Score
		Ames	Lamberton	Ames	Manhattan
Chico	WGBr SYBf I	2.7	2.4	1	1
Dawson	PGBr DYY I	1.2	1.6	1	1
Evans (0)	WGBr IYY I	1.3	2.8	1	2
Hodgson 78 (I)	PGBr DYBf I	1.8	2.4	5	2
McCall (00)	PGBr DYY I	1.3	2.5	1	1
Ozzie	PGBr DYY I	1.5	2.6	5	1
Simpson	PGBr IYBf I	1.7	2.8	1	2
M72-127	WGBr DYY I	2.3	3.6	1	1
M74-12	PGBr DYIb I	2.2	2.6	1	1
M74-23	PGBr DYBf I	1.8	2.2	1	2
M75-25	PGBr SYY I	1.7	3.0	1	2
M75-244	WGBr DYY I	2.5	3.0	1	1
M76-49	WGBr+TDYY I	1.2	2.8	3	1
M76-50	WGT DYY I	1.2	1.6	5	2
M76-149	WGBr DYBf I	1.0	2.6	5	2

UNIFORM TEST 0, 1983

Disease Data

Strain	BSR Ames Plant	BSR Ames Stem	BSR Lafayette Stem	BSR St. Paul Stem	BTS Ames	PR_1 Lafayette
	n %	n %	n %	n %	a Score	a --Reaction--
Chico	60	34.6	20	25	2	R
Dawson	100	75.0	0	80	3	R
Evans (0)	100	73.3	0	95	4	R
Hodgson 78 (I)	100	57.7	20	90	3	R
McCall	100	56.3	40	95	4	S
Ozzie	100	62.7	0	90	2	R
Simpson	100	61.0	80	100	3	R
M72-127	100	51.8	20	95	3	R
M74-12	90	61.8	0	95	3	R
M74-23	100	67.3	0	85	3	S
M75-25	100	64.8	0	100	4	R
M75-244	100	65.6	0	100	3	R
M76-49	100	85.2	20	90	3	R
M76-50	90	51.8	40	100	3	R
M76-149	100	66.4	0	100	3	R

Strain	PS	PSB	SMV Lafayette	Germ	Hard Seed	Green Seed
	a %	n %	a Score	%	%	%
Chico	1	1	3E	65	0	4
Dawson	5	0	2E	79	0	5
Evans (0)	6	3	1	77	17	15
Hodgson 78 (I)	10	2	3E	67	7	3
McCall	4	0	4E	72	20	12
Ozzie	0	0	1	71	4	31
Simpson	16	1	2E	74	15	3
M72-127	18	0	1	75	15	1
M74-12	37	0	2E	89	1	18
M74-23	8	0	2E	92	0	8
M75-25	8	0	1	81	8	6
M75-244	2	0	3E	78	7	10
M76-49	2	0	4E	67	9	7
M76-50	6	0	3	92	0	3
M76-149	0	0	1	83	7	6

UNIFORM TEST 0, 1983

Regional Summary

Strain	Yield	Rank	Maturity	Lodging	Plant Height	Seed Quality	Seed Size	Composition	
								Protein	Oil
No. of Tests	8	8	8	8	8	8	8	5	5
	bu/a	No.	Date	Score	In.	Score	g/100	%	%
Chico	30.0	15	-8.0	1.4	27	1.8	12.0	41.9	20.2
Dawson	40.1	3	+2.3	1.7	32	1.8	15.8	40.3	22.2
Evans (0)	37.8	11	9-15.6*	1.4	32	1.7	15.4	40.8	22.1
Hodgson 78 (I)	39.8	4	+8.0	1.8	36	1.9	16.3	40.2	22.1
McCall (00)	32.0	14	-9.9	1.3	27	2.1	14.1	40.3	21.1
Ozzie	37.9	9	-1.8	1.1	31	1.8	15.9	42.0	21.1
Simpson	40.3	2	+3.9	1.5	30	1.7	15.9	41.0	21.4
M72-127	38.1	8	+2.0	1.4	32	1.7	16.5	42.4	21.3
M74-12	40.8	1	+2.3	1.3	30	1.7	17.0	41.6	21.4
M74-23	39.7	5	+2.1	1.5	29	1.9	16.2	41.0	22.0
M75-25	39.5	6	+3.6	1.4	30	2.0	16.2	41.4	21.6
M75-244	36.7	13	-1.1	1.3	34	2.1	14.3	41.8	21.9
M76-49	37.9	9	+3.8	1.2	30	2.0	17.7	40.7	22.5
M76-50	37.6	12	-2.0	1.2	26	2.1	18.1	39.6	23.6
M76-149	38.5	7	+0.6	1.3	31	1.8	14.4	42.4	21.6

*118 days after planting

The strain M74-12 has the highest one-, two-, and three- year mean yield of any entry in the test and has excellent emergence and shattering scores.

UNIFORM TEST 0, 1983

1982-1983, 2-year mean

Strain	Yield	Rank	Maturity	Lodging	Plant Height	Seed Quality	Seed Size	Composition Protein	Composition Oil
No. of Tests	16 bu/a	16 No.	16 Date	16 Score	15 In.	15 Score	16 g/100	11 %	11 %
Dawson	38.3	3	+2.2	1.9	32	2.0	15.0	39.4	19.9
Evans (0)	37.2	7	9-18.8*	1.6	33	1.8	15.0	39.7	20.2
Hodgson 78 (I)	36.4	8	+7.5	2.0	36	2.0	16.0	39.5	19.5
McCall (00)	31.0	9	-11.4	1.2	27	2.1	13.7	39.3	19.5
Ozzie	37.8	6	-2.4	1.2	31	1.9	15.3	40.4	19.4
M72-127	38.7	2	+3.5	1.8	33	1.8	16.4	41.3	19.1
M74-12	39.4	1	+2.2	1.4	30	2.0	16.8	41.1	19.4
M74-23	38.2	4	+1.6	1.6	29	1.9	15.8	40.2	20.0
M75-25	38.1	5	+4.3	1.5	30	2.1	16.0	40.4	19.4

*120 days after planting

1981-1983, 3-year mean

No. of Tests	23	23	23	23	22	21	23	15	15
Dawson	40.5	3	+1.8	2.0	33	1.9	15.2	39.6	19.7
Evans (0)	39.0	6	9-19.1*	1.8	34	1.8	15.3	40.2	19.9
Hodgson 78 (I)	39.0	6	+7.0	2.0	36	1.9	16.1	40.1	19.4
McCall (00)	33.4	8	-11.6	1.5	29	2.0	14.0	39.7	19.3
Ozzie	40.0	5	-2.6	1.3	32	1.9	15.8	41.0	19.2
M72-127	41.0	2	+3.6	1.9	34	1.9	16.7	41.7	18.8
M74-12	41.1	1	+2.4	1.4	31	2.0	16.7	41.2	19.1
M74-23	40.2	4	+0.1	1.6	30	1.8	15.7	40.8	19.8

*121 days after planting

UNIFORM TEST 0, 1983

Strain	Mean 8 Tests	Mich. Huron	Minnesota Morris	Minnesota Rosemount
		YIELD (bu/a)		
Chico	30.0	39.1	27.0	27.4
Dawson	40.1	44.0	43.8	38.8
Evans (0)	37.8	42.5	40.1	34.3
Hodgson 78 (I)	39.8	47.5	46.4	33.9
McCall (00)	32.0	36.9	28.0	31.2
Ozzie	37.9	43.2	39.5	40.2
Simpson	40.3	43.1	45.5	39.6
M72-127	38.1	42.8	38.8	35.4
M74-12	40.8	43.8	42.1	38.0
M74-23	39.7	44.5	40.4	36.4
M75-25	39.5	49.6	41.4	36.5
M75-244	36.7	39.9	42.7	34.5
M76-49	37.9	42.6	47.8	31.8
M76-50	37.6	41.1	40.3	32.3
M76-149	38.5	44.3	42.0	32.1
C.V. (%)		11.4	10.8	9.8
L.S.D. (5%)		8.2	7.3	5.7
Row Sp. (in)		20	30	30
Rows/plot		4	4	4
Reps		3	3	3
		YIELD RANK		
Chico	15	14	15	15
Dawson	3	5	4	3
Evans (0)	11	11	11	9
Hodgson 78 (I)	4	2	2	10
McCall (00)	14	15	14	14
Ozzie	9	7	12	1
Simpson	2	8	3	2
M72-127	8	9	13	7
M74-12	1	6	6	4
M74-23	5	3	9	6
M75-25	6	1	8	5
M75-244	13	13	5	8
M76-49	9	10	1	13
M76-50	12	12	10	11
M76-149	7	4	7	12

UNIFORM TEST 0, 1983

N.D.	S.D.	Wis.	Ontario	
Fargo	Wilmot	Spooner	Ottawa	Elora
		YIELD (bu/a)		
18.4	25.5	24.3	36.1	42.0
23.2	36.7	37.0	43.6	54.0
23.3	32.4	34.7	46.6	48.5
17.2	40.5	38.2	41.3	53.3
22.7	20.0	31.6	40.3	45.6
25.4	32.8	37.4	38.3	46.7
21.9	38.5	40.5	46.3	47.2
24.4	40.0	40.7	37.8	44.7
24.6	39.8	40.0	49.1	48.7
24.0	39.3	43.3	42.5	49.3
19.7	36.8	41.5	40.7	49.4
24.4	33.2	36.3	37.9	44.6
19.7	32.9	36.3	46.1	46.3
25.8	36.0	35.7	43.0	46.5
21.6	36.9	38.2	39.9	53.3
6.3	9.1	6.3	13.0	8.2
2.4	5.2	3.9	7.4	5.5
18	38	36	16	14
4	4	4	4	4
3	3	3	4	4
		YIELD RANK		
14	14	15	15	15
8	8	9	5	1
7	13	13	2	7
15	1	6	8	2
9	15	14	10	12
2	12	8	12	9
10	5	4	3	8
4	2	3	14	13
3	3	5	1	6
6	4	1	7	5
12	7	2	9	4
4	10	10	13	14
12	11	10	4	11
1	9	12	6	10
11	6	6	11	2

UNIFORM TEST 0, 1983

Strain	Mean 8 Tests	Mich. Huron	Minnesota Morris	Minnesota Rosemount
		MATURITY (date)		
Chico	-8.0	-5	-9	-5
Dawson	+2.3	+3	+5	+4
Evans (0)	9-15.6	9-19	9-4	9-10
Hodgson 78 (I)	+8.0	+4	+15	+6
McCall (00)	-9.9	-5	-8	-8
Ozzie	-1.8	-3	+1	-1
Simpson	+3.9	+2	+11	+6
M72-127	+2.0	+2	+2	+4
M74-12	+2.3	+2	+2	+4
M74-23	+2.1	-1	+4	+3
M75-25	+3.6	+3	+3	+1
M75-244	-1.1	-1	+2	0
M76-49	+3.8	+4	+9	+5
M76-50	-2.0	+5	-1	-1
M76-149	+0.6	+2	+3	-2
Date Planted	5-21	5-28	5-5	5-20
Days to Mature	118	114	122	113
		LODGING (score)		
Chico	1.4	1.0	1.0	1.7
Dawson	1.7	1.0	2.0	2.3
Evans (0)	1.4	1.0	1.0	1.7
Hodgson 78 (I)	1.8	1.3	2.3	2.0
McCall (00)	1.3	1.0	1.0	2.0
Ozzie	1.1	1.0	1.0	1.0
Simpson	1.5	1.0	2.0	1.7
M72-127	1.4	1.0	1.0	1.7
M74-12	1.3	1.0	1.0	1.7
M74-23	1.5	1.0	1.7	1.7
M75-25	1.4	1.0	2.0	2.0
M75-244	1.3	1.0	1.3	1.0
M76-49	1.2	1.0	1.3	1.3
M76-50	1.2	1.0	1.0	1.3
M76-149	1.3	1.0	1.3	1.7

UNIFORM TEST 0, 1983

N.D. Fargo	S.D. Wilmot	Wis. Spooner	Ontario Ottawa	Ontario Elora
		MATURITY (date)		
-21	-5	-6	-8	-5
0	-2	+2	+3	+3
9-21	9-17	9-15	9-23	9-16
F	+9	+9	+8	+5
-21	-9	-9	-10	-9
0	-1	-4	-4	-2
+3	+3	+5	+5	+6
+2	0	+3	+1	+2
0	-2	+3	+5	+4
+1	-1	+7	+2	+2
+2	+1	+7	+6	+6
-1	-3	-4	-1	-1
+4	-1	+4	+2	+3
-21	-2	-3	+4	+3
-1	-2	+3	0	+2
5-17	5-23	5-17	5-27	5-27
127	117	121	119	112
		LODGING (score)		
1.0	1.0	3.7	1.0	1.0
1.0	1.7	3.0	1.8	1.0
1.0	1.3	2.7	1.2	1.0
2.0	1.7	2.0	2.2	1.0
1.0	1.0	2.7	1.0	1.0
1.0	1.0	1.7	1.0	1.0
1.0	1.7	2.0	1.2	1.0
1.0	1.3	3.0	1.3	1.0
1.0	1.0	2.7	1.0	1.0
1.0	1.7	2.7	1.0	1.0
1.0	1.3	2.0	1.0	1.0
1.0	1.0	2.7	1.0	1.0
1.0	1.0	1.7	1.1	1.0
1.0	1.0	2.0	1.0	1.0
1.0	1.0	2.0	1.0	1.0

UNIFORM TEST 0, 1983

Strain	Mean 8 Tests	Mich. Huron	Minnesota Morris	Minnesota Rosemount
		PLANT HEIGHT (inches)		
Chico	27	27	26	27
Dawson	32	29	28	35
Evans (0)	32	28	29	36
Hodgson 78 (I)	36	34	35	38
McCall (00)	27	24	26	30
Ozzie	31	26	28	35
Simpson	30	29	28	35
M72-127	32	30	28	38
M74-12	30	27	29	34
M74-23	29	23	26	34
M75-25	30	31	28	33
M75-244	34	31	32	36
M76-49	30	27	31	33
M76-50	26	24	22	29
M76-149	31	30	29	36

		SEED QUALITY (score)		
Chico	1.8		1.3	2.3
Dawson	1.8		1.7	2.3
Evans (0)	1.7		1.7	2.7
Hodgson 78 (I)	1.9		2.3	2.0
McCall (00)	2.1		1.7	2.3
Ozzie	1.8		2.3	2.3
Simpson	1.7		2.3	2.3
M72-127	1.7		2.3	2.3
M74-12	1.7		2.3	2.3
M74-23	1.9		2.3	2.7
M75-25	2.0		2.0	2.7
M75-244	2.1		2.3	3.0
M76-49	2.0		3.0	2.3
M76-50	2.1		2.7	2.7
M76-149	1.8		2.0	2.3

UNIFORM TEST 0, 1983

N.D.	S.D.	Wis.	Ontario	
Fargo	Wilmot	Spooner	Ottawa	Elora
		PLANT HEIGHT (inches)		
36	31	22	26	21
40	36	29	36	25
40	36	27	35	24
43	39	34	39	27
36	31	23	26	19
38	36	29	30	23
39	34	27	31	20
39	35	31	33	23
35	33	31	30	22
34	32	30	30	21
38	29	28	30	24
41	36	34	31	28
35	31	29	30	23
31	30	25	27	19
37	33	29	30	26
		SEED QUALITY (score)		
2.0	2.0	1.3	2.2	1.5
2.0	2.0	2.3	1.2	1.0
1.0	2.0	2.0	1.2	1.0
3.0	2.0	2.0	1.0	1.0
1.0	3.0	2.7	1.9	2.0
2.0	2.0	1.3	1.0	2.0
2.0	2.0	1.3	1.2	1.0
1.0	2.0	2.3	1.1	1.0
2.0	2.0	1.3	1.0	1.0
2.0	2.0	1.7	1.1	1.5
2.0	2.0	1.7	1.4	2.0
2.0	2.0	2.3	1.5	1.5
1.0	3.0	3.0	1.0	1.0
1.0	2.0	3.3	1.0	2.0
2.0	3.0	1.3	1.2	1.0

UNIFORM TEST 0, 1983

Strain	Mean 8 Tests	Mich. Huron	Minnesota Mooris	Minnesota Rosemount
		SEED SIZE (g/100)		
Chico	12.0	13.0	10.4	10.7
Dawson	15.8	18.8	15.2	12.9
Evans (0)	15.4	17.7	16.4	13.4
Hodgson 78 (I)	16.3	19.0	16.6	13.6
McCall (00)	14.1	15.9	12.5	12.8
Ozzie	15.9	17.9	15.9	14.2
Simpson	15.9	20.1	15.1	13.4
M72-127	16.5	18.6	17.1	16.0
M74-12	17.0	20.8	17.0	14.2
M74-23	16.2	18.4	16.3	13.4
M75-25	16.2	17.9	15.7	13.3
M75-244	14.3	17.3	14.4	12.6
M76-49	17.7	20.4	20.1	14.6
M76-50	18.1	22.5	18.8	15.7
M76-149	14.4	17.3	13.3	11.4

Strain	Mean 5 Tests	Minnesota Morris	Minnesota Rosemount	Ont. Elora	S.D. Wilmot	Wis. Spooner
			PROTEIN (%)			
Chico	41.9	41.7	40.6	44.2	39.8	43.1
Dawson	40.3	39.5	40.4	40.8	38.7	42.3
Evans (0)	40.8	40.0	41.1	41.9	38.4	42.5
Hodgson 78 (I)	40.2	38.8	39.7	41.7	38.6	42.0
McCall (00)	40.3	40.5	40.0	42.1	38.8	40.1
Ozzie	42.0	40.3	41.9	43.3	41.2	43.1
Simpson	41.0	39.7	40.0	43.3	39.5	42.6
M72-127	42.4	42.1	42.8	43.0	39.9	44.0
M74-12	41.6	40.2	41.9	43.8	39.0	42.9
M74-23	41.0	39.7	41.1	42.4	39.1	42.5
M75-25	41.4	40.2	41.5	43.0	39.2	43.1
M75-244	41.8	40.9	41.9	42.9	40.2	43.1
M76-49	40.7	40.2	41.5	42.5	38.3	41.2
M76-50	39.6	39.2	41.0	41.3	36.3	40.1
M76-149	42.4	40.9	43.1	44.4	40.3	43.3

UNIFORM TEST 0, 1983

N.D.	Ont.		S.D.	Wis.
Fargo	Elora	Ottawa	Wilmot	Spooner
		SEED SIZE (g/100)		
9.6	17.9	13.0	10.0	11.6
12.2	20.7	17.0	15.1	14.1
12.7	17.3	16.0	14.6	15.1
12.5	17.9	18.0	16.8	16.2
11.9	16.6	15.0	12.7	15.6
13.7	17.6	17.0	15.1	15.4
12.1	17.9	17.0	16.7	15.2
12.4	17.8	16.0	16.7	17.3
12.4	17.8	16.0	16.7	17.3
13.0	19.4	18.0	16.4	17.2
13.3	17.7	16.0	17.4	16.8
13.9	18.7	17.0	16.2	16.8
11.4	14.5	15.0	14.0	15.2
15.4	18.8	18.0	16.7	17.5
13.9	19.3	19.0	17.6	18.2
11.9	17.2	15.0	15.1	14.2

Mean	Minnesota		Ont.	S.D.	Wis.
5 Tests	Morris	Rosemount	Elora	Wilmot	Spooner
		OIL (%)			
20.2	20.6	20.1	19.1	21.1	19.9
22.2	22.7	21.8	22.0	23.4	21.0
22.1	23.2	21.5	20.5	23.5	21.6
22.1	23.6	22.3	20.5	23.1	21.1
21.1	22.0	20.3	19.6	21.7	21.7
21.1	22.5	20.7	19.6	22.0	20.7
21.4	22.5	21.3	20.0	22.6	20.4
21.3	21.8	21.2	19.9	23.0	20.5
21.4	22.9	20.9	19.6	22.7	21.0
22.0	23.9	21.5	20.6	22.9	21.3
21.6	23.5	21.0	20.2	22.4	21.1
21.9	22.8	21.6	20.7	22.8	21.4
22.5	23.4	21.8	21.0	23.8	22.6
23.6	24.9	23.1	21.3	25.6	23.3
21.6	23.3	20.9	19.7	23.6	20.7

UNIFORM TEST I, 1983

Strain	Parentage	Previous Testing	Generation Composited
1. Corsoy 79 (II)	Corsoy [6] x Lee 68	4	BC_5 F_3
2. Evans (O)	Merit x Harosoy	6	F_5
3. Hodgson 78 (I)	Hodgson [7] x Merit	9	BC_6 F_3
4. Hardin	Corsoy[3] x Cutler 71	1978 to 80	F_3
5. Weber	C1453 x Swift	1	F_5
6. Weber BC	Weber[5] x Century	3	BC_4 F_2
7. A79-135010	Pride B-216 x Cumberland	1	F_4
8. A81-151026	A75-20418 x Century		F_4
9. A81-152006	A76-304020 x Asgrow 2656		F_4
10. A81-157024	Pride B-216[2] x A2	1	BC_1 F_2
11. M74-55	M68-96 x Hodgson	1	F_5
12. M74-62	M68-256 x Hodgson	1	F_5
13. M74-417	Agripro 1235 x 554-8		F_5
14. M74-462	M65-94 x M68-303		F_5

Descriptive and Other Data

Strain	Descriptive Code		Chlorosis Score		Emergence Score	Shattering Score	
			Ames	Lamberton	Ames	Manhattan	Urbana
Corsoy 79 (II)	PGBr DYY	I	3.7	4.4	1	2	1
Evans (O)	WGBr IYY	I	2.2	2.8	1	2	4
Hodgson 78 (I)	PGBr DYBf	I	2.8	2.4	5	2	4
Hardin	PGBr DYY	I	3.3	3.8	1	1	1
Weber	WTBr IYBl	I	2.0	2.2	2	1	3
Weber BC	WTBr IYBl	I	2.5	2.2	1	1	2
A79-135010	WTT DYBl	I	5.0	5.0	1	2	4
A81-151026	PTBr DYBr	I	2.3	1.2	5	1	1
A81-152006	PTBr IYBl	I	2.3	1.8	1	3	4
A81-157024	WGBr DYY	I	2.8	3.0	1	2	5
M74-55	WTT DYBr	I	3.7	4.0	5	1	1
M74-62	WGBr DYY	I	3.7	2.8	1	2	2
M74-417	PGBr IYBf	I	2.3	3.0	5	2	1
M74-462	PGBr IYY	I	2.0	2.6	5	2	2

UNIFORM TEST I, 1983

Disease Data

Strain	BSR Ames Plant n %	BSR Ames Stem n %	BSR Lafayette Stem n %	BSR St. Paul Stem n %	BTS Ames a Score	PR_1 Lafayette a --Reaction--
Corsoy 79 (II)	70	16.0	0	100	2	R
Evans (0)	100	44.1	0	95	4	R
Hodgson 78 (I)	100	38.1	20	90	3	R
Hardin	70	20.4	0	85	2	R
Weber	90	28.1	0	70	2	S
Weber BC	100	74.5	20	100	2	R
A79-135010	100	76.3	40	85	4	S
A81-151026	60	37.9	0	100	3	S
A81-152006	100	66.2	0	40	3	R
A81-157024	100	50.4	0	100	4	S
M74-55	100	52.5	0	95	3	R
M74-62	100	73.3	40	85	4	R
M74-417	-	-	20	100	3	R
M74-462	100	38.1	0	95	4	R

Strain	PS a %	PSB n %	SMV Lafayette a Score	Germ %	Hard Seeds %	Green Seeds %
Corsoy 79 (II)	14	1	5E	71	14	1
Evans (0)	6	3	1	77	17	15
Hodgson 78 (I)	10	2	3E	67	7	3
Hardin	15	0	4E	77	17	13
Weber	0	0	3	88	3	7
Weber BC	0	2	3	89	0	7
A79-135010	0	0	5	33	56	9
A81-151026	5	1	3	50	43	5
A81-152006	5	0	3M	38	53	13
A81-157024	3	0	3M	19	65	6
M74-55	3	0	3M	47	41	1
M74-62	0	0	3	68	12	5
M74-417	1	2	4	75	13	8
M74-462	3	0	1	53	39	5

UNIFORM TEST I, 1983

Regional Summary

Strain	Yield	Rank	Matu-rity	Lodg-ing	Plant Height	Seed Quality	Seed Size	Composition Protein	Composition Oil
No. of Tests	15	15	13	15	15	12	15	5	5
	bu/a	No.	Date	Score	In.	Score	g/100	%	%
Corsoy 79 (II)	43.2	2	+8.5	2.2	39	2.1	14.3	40.3	21.4
Evans (0)	29.9	14	-7.6	1.4	27	2.5	14.0	38.6	23.5
Hodgson 78 (I)	40.6	8	9-15.1*	1.6	33	1.9	15.4	38.9	22.7
Hardin	42.4	3	+5.8	1.9	36	2.3	14.0	39.7	22.1
Weber	40.6	8	+3.8	1.9	34	1.9	12.1	39.6	22.2
Weber BC	39.9	13	+5.8	2.1	36	1.9	12.6	39.8	22.1
A79-135010	42.2	4	+2.4	1.5	34	2.1	15.2	40.5	21.8
A81-151026	43.7	1	+5.0	1.4	32	1.9	14.7	40.6	21.8
A81-152006	42.1	5	+4.8	1.6	36	2.1	16.9	41.8	20.8
A81-157024	41.7	6	+2.9	1.5	32	2.1	14.2	40.0	22.0
M74-55	40.2	11	+2.9	1.6	32	2.0	16.8	40.1	22.1
M74-62	41.6	7	+0.8	1.7	32	1.9	16.7	39.9	22.9
M74-417	40.5	10	+5.7	1.6	32	2.4	14.8	40.6	22.7
M74-462	40.2	11	+3.5	1.7	34	2.2	18.2	39.6	22.3

*115 days after planting

The highest yielding strain in the test was A81-151026. This strain has excellent resistance to shattering but was susceptable to race 1 of P. megaspermia f. sp. glycinea. The strain M74-62 had the highest two - year mean yeild, was resistant to race 1 of P. megaspermia f. sp. glycinea, and had an excellent seedling emergence score.

UNIFORM TEST I, 1983

1982-1983, 2-year mean

Strain	Yield	Rank	Maturity	Lodging	Plant Height	Seed Quality	Seed Size	Composition Protein	Composition Oil
No. of Tests	29	29	26	29	29	23	27	10	10
	bu/a	No.	Date	Score	In.	Score	g/100	%	%
Corsoy 79 (II)	44.9	1	+8.8	2.4	39	2.0	14.6	40.4	19.0
Evans (0)	34.4	9	-7.8	1.4	29	2.2	14.6	38.9	21.0
Hodgson 78 (I)	43.0	4	9-17.6*	1.7	33	1.9	15.5	39.2	20.4
Weber	42.6	7	+3.9	2.1	35	1.8	12.5	39.4	19.9
Weber BC	42.5	8	+5.9	2.3	37	1.9	12.9	39.6	19.8
A79-135010	43.1	3	+3.2	1.6	34	2.1	15.4	40.7	19.3
A81-157024	42.8	6	+3.4	1.5	32	2.1	14.5	40.0	19.7
M74-55	43.0	4	+3.4	1.7	33	2.0	17.4	40.0	20.0
M74-62	44.4	2	+0.9	1.8	32	1.9	17.2	39.6	21.0

*117 days after planting

1981-1983, 3-year mean

No. of Tests	42	42	38	42	42	33	39	14	14
Corsoy 79 (II)	46.2	1	+8.8	2.5	40	1.9	14.9	40.9	18.8
Evans (0)	35.2	4	-7.2	1.6	30	2.2	15.0	39.5	20.5
Hodgson 78 (I)	43.2	3	9-17.1*	1.9	34	2.0	15.9	40.1	19.9
A79-135010	45.8	2	+2.8	1.8	35	2.2	16.0	41.5	19.1

*118 days after planting

UNIFORM TEST I, 1983

Strain	Mean 15 Tests	Iowa Corwith	Iowa Knierim	Ill. DeKalb	Ind. Lafayette	Mich. Saginaw	Mich. Ida	Minn. Lamberton
			YIELD (bu/a)					
Corsoy 79 (II)	43.2	44.9	44.9	47.8	38.0	45.8	54.0	36.3
Evans (0)	29.9	32.2	27.2	30.3	26.4	16.9	44.1	35.7
Hodgson 78 (I)	40.6	43.0	37.4	34.0	28.6	28.6	56.4	41.3
Hardin	42.4	46.5	41.5	46.3	42.5	35.9	50.4	37.1
Weber	40.6	41.3	41.5	35.9	23.5	38.6	49.0	36.4
Weber BC	39.9	42.3	41.7	36.7	22.6	38.0	54.5	32.3
A79-135010	42.2	44.2	44.2	47.2	26.3	37.2	49.0	33.7
A81-151026	43.7	44.7	43.1	45.1	41.0	49.7	55.0	38.6
A81-152006	42.1	41.4	44.1	47.6	28.8	44.7	52.3	35.0
A81-157024	41.7	44.6	44.6	51.1	29.2	35.4	49.7	38.8
A74-55	40.2	43.5	39.1	36.8	31.1	30.5	52.7	40.1
M74-62	41.6	41.1	41.0	42.7	25.5	36.0	59.3	33.5
M74-417	40.5	41.0	41.1	44.0	32.3	16.9	48.1	37.3
M74-462	40.2	44.6	40.9	39.1	33.7	35.9	52.0	32.7
C.V. (%)		7.9	7.2	14.1	14.5	20.9	12.5	7.1
L.S.D. (5%)		4.8	4.3	10.0	7.3	12.3	10.9	4.4
Row sp. (in.)		27	27	30	24	20	20	30
Rows/plot		4	4	4	4	4	4	4
Reps	4	4	3	3	3	3	3	3

			YIELD RANK					
Corsoy 79 (II)	2	2	1	2	3	2	5	8
Evans (0)	14	14	14	14	10	13	14	9
Hodgson 78 (I)	8	8	13	13	9	12	2	1
Hardin	3	1	7	5	1	8	9	6
Weber	8	11	7	12	13	4	11	7
Weber BC	13	9	6	11	14	5	4	14
A79-135010	4	6	3	4	11	6	11	11
A81-151026	1	3	5	6	2	1	3	4
A81-152006	5	10	4	3	8	3	7	10
A81-157024	6	4	2	1	7	10	10	3
M74-55	11	7	12	10	6	11	6	2
M74-62	7	12	10	8	12	7	1	12
M74-417	10	13	9	7	5	13	13	5
M74-462	11	4	11	9	4	8	8	13

UNIFORM TEST 1, 1983

Minn.	Neb.	Ont.		Penn.	S.D.		Wis.
Waseca	Mead	London	Ridgetown	State College	Brookings	Wilmot	Arlington
				YIELD (bu/a)			
37.1	48.8	46.1	57.2	31.6	40.1	32.6	42.3
21.7	30.2	37.2	35.0	19.4	28.7	29.5	34.2
36.3	43.7	40.2	49.1	36.1	50.6	41.0	42.6
37.9	53.2	44.7	44.0	32.1	44.6	36.2	43.1
39.7	46.0	49.5	41.8	30.0	43.9	47.1	44.9
42.9	47.8	39.8	44.3	31.3	45.5	36.9	42.5
43.0	44.3	44.5	42.9	28.5	57.2	46.4	45.1
37.6	44.2	51.6	51.6	27.2	45.1	36.6	45.0
38.0	44.4	52.4	53.0	31.1	35.8	36.2	47.2
39.7	48.6	41.6	42.8	26.3	46.4	37.7	48.4
36.2	49.7	51.2	43.7	30.2	40.8	34.7	43.4
40.2	41.1	52.0	46.1	31.9	49.6	40.3	43.5
39.2	42.2	46.6	47.2	29.9	51.6	41.9	47.8
37.2	38.5	47.6	54.6	32.6	37.5	30.4	46.1
8.0	12.3	9.7	15.8	16.9	22.6	13.2	5.6
5.0	9.2	6.2	10.5	N.S.	N.S.	8.3	3.9
30	30	14	24	24	30	38	30
4	4	4	4	4	4	4	4
3	3	4	4	3	3	3	3
				YIELD RANK			
11	3	8	1	5	11	12	13
14	14	14	14	14	14	14	14
12	10	12	5	1	3	4	11
8	1	9	9	3	8	9	10
4	6	5	13	9	9	1	7
2	5	13	8	6	6	7	12
1	8	10	11	11	1	2	5
9	9	3	4	12	7	8	6
7	7	1	3	7	12	9	3
4	4	11	12	13	5	6	1
13	2	4	10	8	10	11	9
3	12	2	7	4	4	5	8
6	11	7	6	10	2	3	2
10	13	6	2	2	12	13	4

UNIFORM TEST I, 1983

Strain	Mean 13 Tests	Iowa Corwith	Iowa Knierim	Ill. DeKalb	Ind. Lafayette	Mich. Saginaw	Mich. Ida	Minn. Lamberton
			MATURITY (date)					
Corsoy 79 (II)	+8.5	+8		+11	+17	+12	+6	+3
Evans (0)	-7.6	-7		-11	-8	-1	-6	-6
Hodgson 78 (I)	9-15.1	9-10		9-21	8-27	9-21	9-12	9-7
Hardin	+5.8	+6		+9	+11	+13	+5	+7
Weber	+3.8	+7		+3	+6	+5	+1	+5
Weber BC	+5.8	+10		+4	+8	+7	+4	+5
A79-135010	+2.4	+4		-2	+1	+6	+1	+3
A81-151026	+5.0	+8		+1	+11	+12	+1	+4
A81-152006	+4.8	+3		+3	+10	+9	+3	+2
A81-157024	+2.9	+7		-1	+5	+3	0	+2
M74-55	+2.9	+5		0	+3	+7	+3	+3
M74-62	+0.8	+3		0	-2	+5	+1	+1
M74-417	+5.7	+8		+5	+5	+15	+3	+5
M74-462	+3.5	+5		+1	+3	+9	+1	+3
Date Planted	5-23	5-15		6-7	5-11	6-11	5-27	5-5
Days to mature	115	118		106	108	102	108	125

Strain	15 Tests	-	LODGING (score)					
Corsoy 79 (II)	2.2	2.1	2.5	2.3	1.7	2.3	2.3	3.0
Evans (0)	1.4	1.2	1.5	1.5	1.5	1.0	1.0	1.0
Hodgson 78 (I)	1.6	1.6	1.9	1.8	1.5	1.0	1.7	1.3
Hardin	1.9	2.0	2.3	2.2	2.0	1.7	2.3	2.3
Weber	1.9	2.0	2.2	2.2	1.2	1.0	1.7	3.3
Weber BC	2.1	2.4	2.6	2.0	1.5	1.7	2.0	2.7
A79-135010	1.5	1.6	2.0	2.0	1.3	1.3	1.3	1.0
A81-151026	1.4	1.5	1.6	1.7	1.2	1.3	1.0	1.0
A81-152006	1.6	1.6	1.9	2.0	1.5	2.3	1.0	1.0
A81-157024	1.5	1.8	1.9	2.0	1.5	1.0	1.0	1.7
M74-55	1.6	1.6	1.9	2.2	1.5	1.0	1.3	2.0
M74-62	1.7	1.7	2.4	2.2	1.3	1.0	3.0	1.7
M74-417	1.6	1.5	1.7	1.8	1.5	1.0	1.3	1.3
M74-462	1.7	1.6	2.2	1.8	1.5	1.0	1.7	1.7

UNIFORM TEST I, 1983

Minn.	Neb.	Ont.		Penn.	S.D.		Wis.
Waseca	Mead	London	Ridgetown	State College	Brookings	Wilmot	Arlington
				MATURITY (date)			
+3	+4	+10	+4		+8	+6	+19
-11	-8	-8	-8		-8	-9	-8
9-25	9-9	9-20	9-16		9-23	9-24	9-13
+2	+2	+7	-1		+5	+4	+15
+2	+2	+5	-2		+4	+2	+9
+2	+3	+8	+4		+5	+3	+13
+1	-1	+6	-2		+3	+2	+9
+2	+2	+4	+2		+5	+4	+9
+2	-1	+7	+1		+4	+5	+14
+2	-1	+5	0		+3	+2	+11
+1	+2	+3	-1		+1	+3	+8
0	-1	+1	-1		+1	+3	+8
+3	+2	+5	0		+4	+5	+14
+2	-1	+6	0		+3	+3	+10
5-16	5-23	6-3	5-17		5-28	5-23	5-16
132	109	109	122		118	124	120
				LODGING (score)			
2.0	1.5	2.3	2.3	1.0	3.0	1.7	3.2
1.0	1.0	1.0	1.2	1.0	2.7	1.0	2.7
1.7	1.0	1.1	1.2	1.0	2.7	1.7	3.2
2.0	1.5	1.3	1.2	1.0	2.7	1.3	3.2
2.0	1.0	1.6	1.0	1.0	2.7	2.0	3.2
2.0	1.2	2.3	1.7	1.0	3.0	1.3	3.5
2.0	1.0	1.2	1.0	1.0	2.3	1.0	2.7
2.0	1.0	1.0	1.2	1.0	2.3	1.0	2.7
2.0	1.0	1.8	1.2	1.0	2.3	1.0	2.8
2.0	1.0	1.2	1.0	1.0	2.3	1.0	2.7
2.0	1.2	1.1	1.0	1.0	2.0	1.7	3.0
1.3	1.0	1.0	1.0	1.0	2.3	1.7	3.0
2.0	1.0	1.0	1.0	1.0	3.0	1.3	3.0
2.0	1.0	1.1	1.2	1.0	2.7	1.3	3.5

UNIFORM TEST I, 1983

Strain	Mean 15 Tests	Iowa Corwith	Iowa Knierim	Ill. DeKalb	Ind. Lafayette	Mich. Saginaw	Mich. Ida	Minn. Lamberton
		PLANT HEIGHT (inches)						
Corsoy 79 (II)	39	42	42	36	39	37	48	49
Evans (0)	27	23	24	26	27	26	36	30
Hodgson 78 (I)	33	32	32	29	34	30	40	33
Hardin	36	35	37	33	39	34	44	43
Weber	34	36	38	34	32	32	40	39
Weber BC	36	36	38	33	33	38	44	42
A79-135010	34	38	38	34	31	34	41	36
A81-151026	32	32	34	30	30	31	39	34
A81-152006	36	37	37	34	33	43	44	39
A81-157024	32	33	35	31	33	31	37	37
M74-55	32	32	34	31	34	30	39	37
M74-62	32	31	33	30	33	31	39	36
M74-417	32	31	34	31	32	25	42	40
M74-462	34	34	35	32	33	29	41	37

Strain	12 Tests	SEED QUALITY (score)						
Corsoy 79 (II)	2.1	1.4		1.4	1.5			3.3
Evans (0)	2.5	2.3		1.6	1.5			4.0
Hodgson 78 (I)	1.9	1.4		1.3	1.5			2.3
Hardin	2.3	1.4		1.3	2.0			3.0
Weber	1.9	1.4		1.2	1.0			2.7
Weber BC	1.9	1.5		1.2	1.5			2.3
A79-135010	2.1	1.6		1.2	2.0			2.7
A81-151026	1.9	1.5		1.4	1.5			2.7
A81-152006	2.1	1.8		1.3	2.0			3.0
A81-157024	2.1	1.5		1.2	2.0			3.3
M74-55	2.0	1.4		1.3	2.0			3.3
M74-62	1.9	1.8		1.2	2.0			3.3
M74-417	2.4	1.5		1.3	2.0			3.3
M74-462	2.2	1.8		1.2	2.0			3.7

UNIFORM TEST I, 1983

Minn.	Neb.	Ont.		Penn.	S.D.		Wis.
Waseca	Mead	London	Ridgetown	State College	Brookings	Wilmot	Arlington
			PLANT HEIGHT (inches)				
34	38	32	39	27	48	37	41
23	21	24	27	17	41	31	32
28	30	29	32	24	42	36	37
29	34	33	36	25	47	35	40
28	28	36	31	22	44	35	39
31	32	33	34	26	47	34	41
28	32	29	30	23	43	33	33
28	27	32	29	22	42	29	35
29	30	32	39	28	49	34	37
26	31	27	30	19	42	33	33
26	29	32	30	25	40	33	34
27	28	31	32	22	43	34	34
30	28	30	30	23	43	32	36
30	28	32	36	24	47	32	37
			SEED QUALITY (score)				
3.3	2.2	1.0	2.0	2.0	3.0	1.0	3.3
3.3	3.8	1.0	2.0	2.5	2.0	2.0	3.7
3.3	2.5	1.0	2.0	2.0	2.0	1.0	2.7
3.7	2.3	2.0	2.0	2.0	2.0	2.0	3.3
2.7	1.5	1.5	2.0	2.0	3.0	2.0	2.3
2.3	1.5	1.5	2.0	2.0	3.0	2.0	2.3
2.7	1.7	2.0	2.0	2.0	2.0	2.0	2.7
2.7	1.8	1.0	2.0	2.0	2.0	2.0	2.7
3.0	2.0	1.0	2.0	2.0	3.0	2.0	2.3
2.7	1.8	2.0	2.0	2.0	2.0	2.0	2.3
2.7	2.0	1.0	2.0	2.0	2.0	2.0	2.0
2.7	2.0	1.0	2.0	2.0	2.0	1.0	2.3
2.7	1.7	2.0	2.0	2.5	3.0	3.0	3.3
3.0	2.5	1.0	2.0	2.0	2.0	2.0	2.7

UNIFORM TEST I, 1983

Strain	Mean 14 Tests	Iowa Corwith	Iowa Knierim	Ill. DeKalb	Ind. Lafayette	Mich. Saginaw	Mich. Ida	Minn. Lamberton
			SEED SIZE (g/100)					
Corsoy 79 (II)	14.3	14.2		15.3	15.9	15.2	14.0	11.2
Evans (0)	14.0	14.4		13.8	12.0	15.0	14.6	12.8
Hodgson 78 (I)	15.4	13.8		16.0	12.4	16.0	16.3	12.3
Hardin	14.0	12.8		14.7	14.0	14.2	13.7	10.7
Weber	12.1	11.5		11.9	10.5	11.7	12.1	9.1
Weber BC	12.6	11.4		12.3	11.1	12.1	12.6	9.4
A79-135010	15.2	14.4		16.4	12.5	13.8	15.0	11.7
A81-151026	14.7	13.3		15.4	14.6	14.5	14.7	10.8
A81-152006	16.9	14.8		17.9	16.3	18.5	17.2	10.6
A81-157024	14.2	13.1		15.3	13.7	12.7	14.3	11.3
M74-55	16.8	14.8		16.0	18.5	17.1	16.3	13.3
M74-62	16.7	16.6		17.2	11.7	16.0	17.3	14.7
M74-417	14.8	14.5		15.4	12.9	15.1	14.8	11.7
M74-462	18.2	17.4		19.8	16.5	17.3	17.3	13.9

Strain	Mean 5 Tests	Iowa Corwith	Minn. Waseca	Ont. London	S.D. Brookings	Wis. Arlington
			PROTEIN (%)			
Corsoy 79 (II)	40.3	37.9	37.9	43.5	39.7	42.7
Evans (0)	38.6	36.4	37.0	42.4	38.7	38.6
Hodgson 78 (I)	38.9	36.9	38.2	41.6	38.3	39.5
Hardin	39.7	36.7	37.8	43.3	39.4	41.1
Weber	39.6	37.7	37.2	43.8	38.9	40.2
Weber BC	39.8	37.5	37.4	43.5	39.8	41.0
A79-135010	40.5	38.1	38.3	44.1	40.6	41.4
A81-151026	40.6	38.8	38.2	44.0	39.8	42.1
A81-152006	41.8	40.0	40.0	44.5	40.9	43.7
A81-157024	40.0	37.5	37.8	43.8	40.2	40.6
M74-55	40.1	37.5	39.4	42.8	39.5	41.3
M74-62	39.9	37.7	38.2	42.5	40.6	40.7
M74-417	40.6	38.2	39.6	42.6	40.9	41.5
M74-462	39.6	37.4	38.4	42.0	40.0	40.0

UNIFORM TEST I, 1983

Minn.	Neb.	Ont.		Penn.	S.D.		Wis.
Waseca	Mead	London	Ridgetown	State College	Brookings	Wilmot	Arlington
				SEED SIZE (g/100)			
13.7	15.4	13.5	13.9	12.9	14.3	16.8	13.8
14.5	15.6	13.5	15.1	13.3	15.1	13.6	12.7
15.4	16.9	14.5	17.4	16.1	15.4	19.0	13.9
14.5	15.2	12.9	13.2	14.3	14.5	16.9	14.2
12.7	13.5	12.9	11.7	12.5	13.4	14.3	11.8
12.5	13.6	12.5	12.5	13.6	14.0	15.8	12.3
17.0	15.6	15.0	15.6	14.5	17.4	18.1	15.5
15.1	15.7	14.0	14.8	15.4	15.8	18.1	14.1
17.9	15.9	17.2	17.7	16.3	17.0	20.9	17.8
15.3	14.6	13.8	14.1	14.3	15.2	17.2	14.1
18.0	18.0	16.9	16.9	17.5	17.1	18.4	16.1
19.0	17.3	17.0	17.7	15.9	16.9	19.1	16.7
14.7	15.4	14.5	15.8	15.5	14.2	17.7	15.1
20.2	17.8	18.4	18.9	18.5	19.0	20.7	18.5

Strain	Mean 5 Tests	Iowa Corwith	Minn. Waseca	Ont. London	S.D. Brookings	Wis. Arlington
			OIL (%)			
Corsoy 79 (II)	21.4	23.2	22.5	19.3	21.8	20.4
Evans (0)	23.5	24.7	24.6	20.9	23.2	23.9
Hodgson 78 (I)	22.7	23.6	23.7	20.8	22.4	22.8
Hardin	22.1	24.2	23.0	20.2	21.7	21.3
Weber	22.2	23.3	23.4	19.9	22.2	22.0
Weber BC	22.1	24.3	23.2	19.4	22.0	21.8
A79-135010	21.8	23.4	23.2	19.7	21.8	20.9
A81-151026	21.8	22.9	23.5	19.6	21.6	21.5
A81-152006	20.8	22.1	22.0	19.1	20.8	19.9
A81-157024	22.0	23.5	23.7	19.7	21.6	21.4
M74-55	22.1	23.4	22.9	20.3	22.0	21.7
M74-62	22.9	24.4	24.0	21.0	22.1	22.8
M74-417	22.7	24.5	22.6	21.2	22.3	22.8
M74-462	22.3	23.6	24.1	20.1	21.3	22.3

PRELIMINARY TEST I, 1983

Descriptive and Other Data

Strain	Parentage	Generation Composited	Descriptive Code					Chlorosis Score Ames	Shattering Score Manhattan
1. Corsoy 79 (II)	Corsoy^{6} x Lee 68	BC_5 F_3	P	GBr	DY	Y	I	3.7	2
2. Evans (O)	Merit x$_{7}$Harosoy	F_5	W	GBr	IY	Y	I	2.2	2
3. Hodgson 78 (I)	Hodgson^{7} x Merit	BC_6 F_3	P	GBr	DY	Bf	I	2.8	2
4. Hardin	Corsoy^{3} x Cutler 71	F_3	P	GBr	DY	Y	I	3.3	1
5. A82-161015	A77-211021 x NAPB HP 20-20	F_4	W	GBr	DY	Bf	I	4.2	2
6. A82-161024	A77-314013 x Pride B-216	F_4	W	TBr	DY	Y	I	3.3	2
7. A82-161034	A76-103002 x A77-211021	F_4	W	GBr	DY	Bf	I	2.7	2
8. A82-162023	NK S1492 x Tri-Valley Charger	F_4	P	TT	DY	Br	I	3.7	1
9. A82-162025	Pride B-216 x A74-302012	F_4	P+W	TT	DY	Y	I	4.0	1
10. A82-162033	A77-211021 x Tri-Valley Charger	F_4	P	TBr	DY	Br	I	3.7	1
11. A82-163026	Pride B-216$_{2}$x A74-302012	F_4	PG+TBr		DYBl+Ib+Gr		I	3.7	2
12. A82-164003	Pride B-216^{2} x A2	BC_1 F_3	W	GBr	SY	Y	I	3.7	1
13. A82-165004	A2 x Hy Vigor Rowtunda	F_4	P+WGBr		SY	Y	I	1.8	3
14. A82-165012	Century x A76-304020	F_4	P	TBr	DY	Bl	I	2.8	2
15. A82-166001	AP6E 2YT (F_4) C_2	F_4	P	TBr	IY	Bl	I	2.3	1
16. A82-166011	AP6E 2YT (F_4) C_2	F_4	P	TBr	IY	Bl	I	3.7	2
17. A82-167014	AP6E TW 2YT^{4}(F_4) C_2	F_4	P	TBr	DY	Gr	I	3.5	1
18. A82-167026	AP6E TW 2YT (F_4) C_2	F_4	W	GTn	SY	Bf	I	4.0	2
19. A82-168005	NK S1492 X A78-125026	F_4	W	GBr	DY	Bf	I	4.3	1
20. M75-275	Evans x L70T-543	F_5	W	GBr	SY	Y	I	3.3	1
21. M75-300	L70T-543 x 554-3	F_5	W	TBr	SY	Br	I	3.3	2
22. M76-33	M64-157 x McCall	F_5	P	GBr	DY	Y	I	2.0	2
23. M76-55	M69-20 x McCall	F_5	W	GBr	DY	Bf	I	1.2	2
24. M76-100	M65-442 x (Hodgson^{6} x Merit)	F_5	P	GT	DY	Y	I	4.3	1
25. M76-167	L71-2855 x (Hodgson^{6} x Merit)	F_5	W	TBr	DY	Br	I	4.5	2
26. M76-281	M70-187 x (Hodgson^{6} x Merit)	F_5	P	GBr	DY	Bf	I	2.3	1

PRELIMINARY TEST I, 1983

Disease Data

Strain	BSR Ames Plant n %	BSR Ames Stem n %	BSR Lafayette Stem n %	PR_1 Lafayette a ---Reaction---	PS Lafayette a %	PSB Lafayette n %	SMV Lafayette a Score	Germ Lafayette %	Hard Seed Lafayette %	Green Seed Lafayette %
Corsoy 79 (II)	100	74.3	0	R	14	1	5E	71	14	1
Evans (0)	100	44.5	0	R	6	3	1	77	17	15
Hodgson 78 (I)	100	51.4	20	R	10	2	3E	67	7	3
Hardin	100	67.3	0	R	15	0	4E	77	17	13
A82-161015	100	52.9	0	R	5	0	4	58	24	13
A82-161024	100	56.8	40	R	3	0	4	45	43	7
A82-161034	100	55.5	0	R	26	0	3	79	0	9
A82-162023	100	57.8	0	R	3	0	4	43	43	13
A82-162025	100	49.1	40	R	7	0	4	60	17	2
A82-162033	100	54.4	0	R	3	0	4	81	7	6
A82-163026	100	50.8	0	S	1	0	5	22	78	7
A82-164003	90	60.3	40	S	5	0	2	34	58	3
A82-165004	100	71.6	20	R	2	1	1	44	2	3
A82-165012	100	58.1	0	R	1	0	2	41	42	6
A82-166001	100	77.3	20	R	1	0	5	60	19	7
A82-166011	100	58.2	0	S	1	0	4	37	50	2
A82-167014	100	54.9	0	S	6	1	4	83	6	2
A82-167026	100	63.8	40	S	5	1	4	27	58	0
A82-168005	100	62.4	20	H	4	0	1	34	54	12
M75-275	100	52.9	0	R	6	0	2	72	6	9
M75-300	100	40.7	40	R	4	0	4	79	9	2
M76-33	100	47.2	0	R	2	0	2	82	4	3
M76-55	100	75.4	0	R	2	0	2	52	24	0
M76-100	100	44.8	20	S	2	0	2	74	4	0
M76-167	50	11.7	0	R	1	0	1	56	33	14
M76-281	100	31.2	-	R	1	0	1	26	61	2

PRELIMINARY TEST I, 1983

Regional Summary

Strain	Yield	Rank	Maturity	Lodging	Plant Height	Seed Quality	Seed Size	Composition	
								Protein	Oil
No. of Tests	7	7	7	8	8	6	7	3	3
	bu/a	No.	Date	Score	In.	Score	g/100	%	%
Corsoy 79 (II)	41.6	20	+9.8	2.6	41	2.8	13.8	39.8	22.0
Evans (0)	32.5	26	-6.0	1.6	28	2.8	14.2	37.6	24.1
Hodgson 78 (I)	40.9	21	9-17.9*	1.9	34	2.5	15.1	38.6	23.4
Hardin	42.7	15	+7.4	2.3	38	2.8	13.4	38.7	23.3
A82-161015	40.9	21	+7.6	2.4	39	2.6	13.3	40.9	21.4
A82-161024	43.8	10	+7.7	2.1	38	2.5	16.9	40.3	22.3
A82-161034	46.0	2	+5.6	2.1	36	2.7	15.7	40.7	21.8
A82-162023	45.0	4	+10.1	2.1	36	3.1	17.7	38.7	23.0
A82-162025	43.6	12	+7.6	2.2	36	2.7	17.8	38.9	22.6
A82-162033	44.9	5	+7.3	2.2	35	2.6	16.3	38.3	23.1
A82-163026	44.1	7	+7.3	2.0	36	2.6	16.9	40.0	23.2
A82-164003	45.5	3	+5.3	2.3	33	2.4	14.7	38.8	23.1
A82-165004	38.8	25	+8.0	2.3	40	3.1	16.0	39.1	22.4
A82-165012	44.1	7	+7.0	3.1	38	2.8	17.4	42.3	21.0
A82-166001	42.7	15	+2.3	3.1	33	2.8	15.1	38.6	22.3
A82-166011	43.7	11	+4.0	2.0	32	2.7	16.6	39.0	22.4
A82-167014	46.8	1	+7.7	2.5	35	2.8	14.6	41.4	21.8
A82-167026	44.5	6	+7.6	2.4	35	2.4	14.2	39.4	22.8
A82-168005	43.9	9	+9.0	2.6	34	2.6	14.3	39.6	22.9
M75-275	41.9	18	+3.3	1.8	33	2.4	17.3	38.0	23.9
M75-300	40.9	21	+0.7	1.8	34	2.3	14.5	40.4	22.2
M76-33	39.6	24	-4.3	1.8	31	3.0	14.3	36.5	24.4
M76-55	42.2	17	-2.9	1.9	31	2.8	15.1	38.9	23.7
M76-100	41.7	19	0.0	1.5	31	2.7	15.2	37.1	24.6
M76-167	43.0	14	+4.7	2.2	38	2.6	15.0	38.4	24.0
M76-281	43.4	13	0.0	1.7	32	2.3	15.3	37.8	23.4

*118 Days after planting

Several of the high-yielding strains in this test matured too late for Group I classification and further testing should be done in UT II. Two late maturing Group I strains, A82-161034 and A82-164003 were superior in yield to the checks but differed in shattering score and in reaction to phytophthora rot. The strain M76-281 was similar in maturity and in phytophthora resistance but was superior to Hodgson 78 in yield, lodging resistance and shattering resistance.

PRELIMINARY TEST I, 1983

Strain	Mean 7 Tests	Iowa		Mich.	Minnesota		Ont.	S.D.	Wis.
		Corwith	Knierim	Saginaw[1]	Lamberton	Waseca	London	Brookings	Arlington
				YIELD (bu/a)					
Corsoy 79 (II)	41.6	48.6	41.5	48.7	32.4	42.6	38.9	42.3	44.6
Evans (0)	32.5	32.9	24.5	20.6	32.4	27.0	27.3	49.7	33.6
Hodgson 78 (I)	40.9	45.9	36.8	25.5	28.6	41.5	37.7	54.1	41.5
Hardin	42.7	47.9	39.0	39.2	34.5	43.9	40.7	48.1	45.0
A82-161015	40.9	43.2	43.7	38.2	31.8	44.1	38.6	44.4	40.7
A82-161024	43.8	43.1	45.2	36.1	32.4	43.8	41.1	51.4	49.7
A82-161034	46.0	46.7	46.0	38.1	34.9	44.9	47.5	57.5	44.5
A82-162023	45.0	47.6	45.3	27.9	38.7	45.2	42.4	45.8	50.1
A82-162025	43.6	43.6	43.9	36.6	38.6	48.6	36.4	46.5	47.8
A82-162033	44.9	43.3	45.1	46.2	46.3	36.8	43.4	52.8	46.9
A82-163026	44.1	45.1	41.1	42.6	35.4	47.0	40.0	52.3	48.0
A82-164003	45.5	43.0	40.6	44.0	37.9	46.4	41.6	63.7	45.5
A82-165004	38.8	39.7	40.3	31.8	38.5	38.3	32.2	42.3	40.2
A82-165012	44.1	40.8	41.7	43.0	35.7	46.4	41.3	56.2	46.4
A82-166001	42.7	45.5	37.8	36.3	35.0	41.1	37.3	58.4	43.6
A82-166011	43.7	45.0	44.6	48.3	35.0	40.7	40.6	56.5	43.4
A82-167014	46.8	48.2	42.2	35.4	35.4	45.6	49.5	57.1	49.5
A82-167026	44.5	47.5	44.1	40.2	35.3	44.2	45.7	49.4	45.3
A82-168005	43.9	46.3	46.7	42.2	39.2	48.5	34.6	47.2	44.8
M75-275	41.9	45.8	42.8	14.1	31.6	42.1	33.1	54.8	43.0
M75-300	40.9	41.1	36.1	28.1	37.5	39.6	43.1	51.1	38.1
M76-33	39.6	44.5	28.9	36.7	39.0	35.8	34.4	58.9	35.8
M76-55	42.2	45.1	31.4	27.8	39.7	41.2	38.8	61.2	37.7
M76-100	41.7	41.4	26.3	19.3	36.9	41.2	41.7	58.4	46.1
M76-167	43.0	45.8	40.7	35.8	36.0	41.8	37.5	53.3	46.2
M76-281	43.4	42.6	34.5	32.9	40.6	41.6	48.2	54.8	41.3
C.V. (%)		6.3	8.9	28.5	14.5	10.9	11.6	6.3	7.0
L.S.D. (5%)		5.6	7.1	20.7	10.8	9.5	9.5	6.7	6.3
Row sp. (in.)		27	27	20	30	30	24	30	30
Rows/plot		4	4	4	2	2	4	4	4
Reps		2	2	2	2	2	2	2	2

[1] Data are not included in the mean

Strain		Iowa		Mich.	Minnesota		Ont.	S.D.	Wis.
		Corwith	Knierim	Saginaw[1]	Lamberton	Waseca	London	Brookings	Arlington
					YIELD RANK				
Corsoy 79 (II)	20	1	13	1	21	13	15	25	14
Evans (O)	26	26	26	24	21	26	26	18	26
Hodgson 78 (I)	21	8	20	23	26	17	18	12	19
Hardin	15	3	18	9	20	11	12	20	12
A82-161015	21	18	9	10	24	10	17	24	21
A82-161024	10	19	4	15	21	12	11	16	2
A82-161034	2	6	2	11	19	8	3	6	15
A82-162023	4	4	3	21	6	7	7	23	1
A82-162025	12	16	8	13	7	1	21	22	5
A82-162033	5	17	5	3	1	24	5	14	6
A82-163026	7	12	14	6	14	3	14	15	4
A82-164003	3	20	16	4	9	4	9	1	10
A82-165004	25	25	17	19	8	23	25	25	22
A82-165012	7	24	12	5	13	4	10	9	7
A82-166001	15	11	19	14	17	20	20	4	16
A82-166011	11	14	6	2	17	21	13	8	17
A82-167014	1	2	11	17	14	6	1	7	3
A82-167026	6	5	7	8	16	9	4	19	11
A82-168005	9	7	1	7	4	2	22	21	13
M75-275	18	9	10	26	25	14	24	10	18
M75-300	21	23	21	20	10	22	6	17	23
M76-33	24	15	24	12	5	25	23	3	25
M76-55	17	12	23	22	3	18	16	2	24
M76-100	19	22	25	25	11	18	8	4	9
M76-167	14	9	15	16	12	15	19	13	8
M76-281	13	21	22	18	2	16	2	10	20

[1]Data are not included in the mean

PRELIMINARY TEST I, 1983

Strain	Mean 7 Tests	Iowa Corwith	Iowa Knierim	Mich Saginaw	Minnesota Lamberton	Minnesota Waseca	Ont. London	S.D. Brookings	Wis. Arlington
				MATURITY (date)					
Corsoy 79 (II)	+9.8	+9		+11	+9	+3	+8	+10	+19
Evans (0)	-6.0	-6		+1	-7	-10	-5	-7	-8
Hodgson 78 (I)	9-17.9	9-11		9-24	9-8	9-25	9-21	9-23	9-13
Hardin	+7.4	+8		+11	+5	+2	+7	+7	+12
A82-161015	+7.6	+8		+7	+5	+4	+9	+6	+14
A82-161024	+7.7	+10		+9	+5	+2	+9	+5	+14
A82-161034	+5.6	+9		+4	+7	+3	+3	+4	+11
A82-162023	+10.1	+12		+13	+8	+3	+11	+8	+16
A82-162025	+7.6	+10		+10	+3	+3	+9	+7	+11
A82-163033	+7.3	+8		+7	+6	+2	+8	+8	+12
A82-163026	+7.3	+8		+11	+4	+3	+7	+6	+12
A82-164003	+5.3	+8		+6	+5	+2	+3	+3	+10
A82-165004	+8.0	+9		+9	+6	+1	+9	+5	+17
A82-165012	+7.0	+6		+9	+5	+2	+7	+7	+13
A82-166001	+2.3	+3		-3	+4	0	+5	+3	+4
A82-166011	+4.0	+8		+2	+5	+1	+4	+3	+5
A82-167014	+7.7	+10		+5	+5	+3	+9	+6	+16
A82-167026	+7.6	+8		+8	+6	+2	+9	+7	+13
A82-168005	+9.0	+12		+5	+8	+4	+11	+7	+16
M75-275	+3.3	+2		+5	+4	0	+7	+2	+3
M75-300	+0.7	+2		0	-1	0	+1	0	+3
M76-33	-4.3	-4		-1	-6	-3	-5	-5	-6
M76-55	-2.9	-3		0	-5	-1	-1	-4	-6
M76-100	0.0	-1		+4	-2	0	-1	0	0
M76-167	+4.7	+6		+5	+4	+2	+2	+3	+11
M76-281	0.0	-2		+5	-1	0	-1	0	-1
Date Planted	5-21	5-15	5-17	6-11	5-5	5-16	6-10	5-28	5-16
Days to Mature	118	119		105	126	132	103	118	120

Strain	Mean 8 Tests	Iowa		Mich.	Minnesota		Ont.	S.D.	Wis.
		Corwith	Knierim	Saginaw	Lamberton	Waseca	London	Brookings	Arlington
				LODGING (score)					
Corsoy 79 (II)	2.6	2.4	3.0	2.0	2.0	2.0	3.0	3.0	3.0
Evans (O)	1.6	1.1	1.7	1.0	1.0	1.0	1.5	2.0	3.3
Hodgson 78 (I)	1.9	1.7	2.3	1.0	1.0	1.5	2.0	2.5	3.3
Hardin	2.3	2.0	2.7	1.0	1.5	2.0	3.0	3.0	3.5
A82-161015	2.4	2.0	2.0	1.5	2.0	2.0	2.5	3.5	3.5
A82-161024	2.1	2.2	2.6	1.5	1.0	2.0	2.5	2.0	3.0
A82-161034	2.1	1.7	2.5	1.5	1.5	2.0	2.0	3.0	2.8
A82-162023	2.1	1.9	1.8	2.0	1.0	2.0	2.0	2.5	3.3
A82-162025	2.2	1.8	2.1	1.5	1.0	2.0	2.5	3.0	3.3
A82-162033	2.2	1.4	2.3	2.0	1.5	2.0	2.0	3.0	3.0
A82-163026	2.0	2.0	1.8	1.5	1.0	2.0	1.5	3.0	3.0
A82-164003	2.3	2.0	2.5	1.5	2.0	2.0	2.0	3.0	3.0
A82-165004	2.3	1.8	2.3	1.5	1.5	2.0	2.5	3.0	3.8
A82-165012	3.1	2.4	3.8	2.5	3.5	2.0	3.5	3.5	3.8
A82-166001	2.1	1.9	2.0	1.0	1.5	2.0	2.5	3.0	3.0
A82-166011	2.0	1.7	2.1	1.0	2.0	2.0	1.5	2.5	3.5
A82-167014	2.5	2.0	2.6	1.5	2.0	2.0	3.0	3.5	3.3
A82-167026	2.4	2.1	2.8	1.0	2.5	2.0	2.5	3.0	3.5
A82-168005	2.6	2.4	2.2	3.0	2.0	2.0	3.0	2.5	3.3
M75-275	1.8	1.3	2.0	1.0	1.0	1.0	2.5	3.0	2.8
M75-300	1.8	1.4	2.2	1.0	1.0	1.5	1.5	3.0	3.0
M76-33	1.8	1.4	2.5	1.0	1.0	1.0	1.5	3.0	2.8
M76-55	1.9	1.5	2.8	1.0	1.0	1.5	1.5	2.5	3.0
M76-100	1.5	1.5	1.9	1.0	1.0	1.0	1.0	2.0	2.8
M76-167	2.2	1.6	2.5	1.5	1.5	2.0	2.0	3.0	3.3
M76-281	1.7	1.4	2.4	1.0	1.0	1.0	1.0	3.0	2.8

PRELIMINARY TEST I, 1983

Strain	Mean 8 Tests	Iowa		Mich.	Minnesota		Ont.	S.D.	Wis.
		Corwith	Knierim	Saginaw	Lamberton	Waseca	London	Brookings	Arlington
				PLANT HEIGHT (inches)					
Corsoy 79 (II)	41	42	41	37	46	40	35	51	39
Evans (0)	28	23	24	22	28	25	27	41	35
Hodgson 78 (I)	34	30	32	32	33	32	30	47	38
Hardin	38	35	37	30	39	33	40	49	39
A82-161015	39	39	33	32	43	38	33	51	39
A82-161024	38	38	37	31	38	35	35	51	39
A82-161034	36	33	37	27	38	35	34	44	38
A82-162023	36	38	34	31	38	32	32	46	34
A82-162025	36	36	35	32	40	32	34	45	37
A82-162033	35	33	34	35	36	29	34	46	35
A82-163026	36	39	34	30	37	32	31	49	36
A82-164003	33	33	34	25	36	28	32	46	33
A82-165004	40	38	39	34	45	35	36	51	41
A82-165012	38	38	38	31	38	32	38	48	37
A82-166001	33	34	32	28	37	27	28	42	33
A82-166011	32	32	30	29	32	27	27	46	32
A82-167014	35	35	37	32	35	33	35	42	33
A82-167026	35	36	35	30	35	30	37	44	34
A82-168005	34	35	30	36	36	30	28	41	33
M75-275	33	33	32	23	34	30	28	47	35
M75-300	34	32	32	30	35	31	34	44	37
M76-33	31	28	32	27	32	25	27	43	33
M76-55	31	26	29	26	33	27	29	43	34
M76-100	31	26	27	24	34	27	32	43	34
M76-167	38	36	36	38	38	31	34	48	39
M76-281	32	27	28	27	36	28	32	44	33

PRELIMINARY TEST I, 1983

Strain	Mean 6 Tests	Iowa		Mich.	Minnesota		Ont.	S.D.	Wis.
		Corwith	Knierim	Saginaw	Lamberton	Waseca	London	Brookings	Arlington
					SEED QUALITY (score)				
Corsoy 79 (II)	2.8	2.0			2.5	3.5	2.0	4.0	3.0
Evans (0)	2.8	1.9			3.5	2.5	2.0	3.0	4.0
Hodgson 78 (I)	2.5	1.6			3.0	3.0	2.0	3.0	2.5
Hardin	2.8	1.5			2.5	3.5	2.0	4.0	3.5
A82-161015	2.6	1.5			2.5	2.0	2.0	4.0	3.5
A82-161024	2.5	1.7			3.0	3.0	2.0	3.0	2.5
A82-161034	2.7	1.9			3.0	3.0	2.0	4.0	2.5
A82-162023	3.1	1.4			2.5	3.5	3.0	4.0	4.0
A82-162025	2.7	1.5			3.0	2.5	2.0	4.0	3.0
A82-162033	2.6	1.4			2.5	3.0	2.0	4.0	2.5
A82-163026	2.6	1.4			2.0	3.0	2.0	4.0	3.0
A82-164003	2.4	1.5			2.5	2.5	2.0	3.0	3.0
A82-165004	3.1	1.5			3.5	3.5	2.0	5.0	3.0
A82-165012	2.8	1.8			3.0	3.5	2.0	4.0	3.0
A82-166001	2.8	1.8			2.5	3.0	2.0	4.0	3.5
A82-166011	2.7	1.9			3.0	3.0	2.0	4.0	2.0
A82-167014	2.8	2.0			2.5	3.5	2.0	4.0	2.5
A82-167026	2.4	1.5			3.5	2.0	2.0	4.0	1.5
A82-168005	2.6	1.6			2.5	3.0	2.0	3.0	3.5
M75-275	2.4	2.0			3.0	2.5	2.0	3.0	2.0
M75-300	2.3	2.0			2.5	2.5	2.0	3.0	1.5
M76-33	3.0	2.3			3.5	3.5	2.0	3.0	3.5
M76-55	2.8	1.8			3.5	3.0	2.0	3.0	3.5
M76-100	2.7	1.9			3.0	2.0	3.0	3.0	3.0
M76-167	2.6	1.6			3.0	2.5	2.0	4.0	2.5
M76-281	2.3	1.6			2.5	2.0	2.0	3.0	2.5

PRELIMINARY TEST I, 1983

Strain	Mean 7 Tests	Iowa		Mich.	Minnesota		Ont.	S.D.	Wis.
		Corwith	Knierim	Saginaw	Lamberton	Waseca	London	Brookings	Arlington
				SEED SIZE (g/100)					
Corsoy 79 (II)	13.8	14.4		15.5	11.4	13.7	13.2	14.7	13.4
Evans (0)	14.2	14.2		14.9	13.4	15.0	13.5	15.0	13.1
Hodgson 78 (I)	15.1	15.4		15.5	12.9	16.0	15.2	16.0	14.4
Hardin	13.4	12.8		15.8	10.1	14.2	14.2	14.4	12.5
A82-161015	13.3	13.9		13.4	11.5	14.5	12.0	14.7	13.4
A82-161024	16.9	16.0		17.2	13.6	17.0	16.3	19.5	19.0
A82-161034	15.7	15.6		15.0	13.7	16.6	15.4	17.2	16.7
A82-162023	17.7	16.9		19.8	14.9	17.1	18.5	17.7	19.2
A82-162025	17.8	17.3		19.1	14.7	19.0	17.4	18.8	18.3
A82-162033	16.3	16.5		17.0	13.2	17.5	16.3	17.8	15.5
A82-163026	16.9	16.3		18.8	13.8	17.3	15.5	18.8	17.5
A82-164003	14.7	14.3		15.5	12.3	15.6	14.0	16.9	14.1
A82-165004	16.0	15.8		15.7	12.5	16.9	15.1	16.1	19.6
A82-165012	17.4	17.3		17.5	13.9	18.0	17.6	19.5	17.9
A82-166001	15.1	13.8		15.8	12.4	15.7	15.0	16.4	16.7
A82-166011	16.6	15.8		17.7	13.3	17.0	16.7	18.1	17.4
A82-167014	14.6	15.1		15.0	11.7	14.5	14.8	15.4	16.0
A82-167026	14.2	13.0		16.2	11.1	14.1	14.1	16.1	14.6
A82-168005	14.3	14.2		14.3	12.1	15.3	12.2	16.2	15.8
M75-275	17.3	16.5		18.1	15.5	19.5	15.4	19.3	16.5
M75-300	14.5	13.0		16.9	11.8	14.5	15.7	15.1	14.3
M76-33	14.3	16.2		14.4	13.1	15.9	13.2	14.3	13.3
M76-55	15.1	14.7		15.1	13.3	16.5	15.0	17.3	14.1
M76-100	15.2	14.4		16.0	12.8	16.3	16.1	16.3	14.7
M76-167	15.0	13.7		16.4	12.4	16.6	15.4	15.4	15.0
M76-15.3	13.0	12.7		16.7	16.6	16.5	16.4	16.8	15.3

PRELIMINARY TEST I, 1983

Strain	Mean 3 Tests	Iowa Corwith	Minn. Waseca	Wis. Arlington	Mean 3 Tests	Iowa Corwith	Minn. Waseca	Wis. Arlington
		PROTEIN (%)				OIL (%)		
Corsoy 79 (II)	39.8	38.3	38.9	42.2	22.0	23.1	22.4	20.4
Evans (0)	37.6	36.2	37.1	39.5	24.1	25.3	24.1	22.8
Hodgson 78 (I)	38.6	37.2	39.0	39.6	23.4	24.1	23.4	22.7
Hardin	38.7	35.9	39.3	40.8	23.3	24.9	22.9	22.2
A82-161015	40.9	40.0	39.6	43.1	21.4	22.0	22.0	20.1
A82-161024	40.3	39.6	38.2	43.2	22.3	22.5	22.8	21.7
A82-161034	40.7	39.2	39.3	43.6	21.8	22.8	22.0	20.7
A82-162023	38.7	37.8	36.9	41.3	23.0	23.4	23.8	21.8
A82-162025	38.9	37.2	37.7	41.8	22.6	23.2	23.4	21.3
A82-162033	38.3	36.5	37.4	40.9	23.1	24.6	23.5	21.3
A82-163026	40.0	39.3	38.5	42.1	23.2	23.8	23.9	21.8
A82-164003	38.8	36.5	37.9	42.1	23.1	24.1	23.7	21.6
A82-165004	39.1	37.5	37.0	42.8	22.4	23.1	23.0	21.0
A82-165012	42.3	41.9	41.1	44.0	21.0	21.8	21.2	19.9
A82-166001	38.6	36.3	38.6	40.8	22.3	23.1	22.5	21.3
A82-166011	39.0	37.6	38.2	41.3	22.4	23.3	22.8	21.0
A82-167014	41.4	39.9	40.7	43.6	21.8	22.5	22.2	20.7
A82-167026	39.4	38.3	39.1	40.9	22.8	23.3	23.0	22.0
A82-168005	39.6	38.4	38.0	42.4	22.9	23.6	23.5	21.6
M75-275	38.0	36.4	37.6	40.1	23.9	24.6	24.2	22.8
M75-300	40.4	39.4	40.9	41.0	22.2	22.6	21.6	22.4
M76-33	36.5	34.3	37.1	38.0	24.4	26.4	24.1	22.7
M76-55	38.9	38.9	38.0	39.9	23.7	24.0	23.9	23.3
M76-100	37.1	35.5	37.0	38.9	24.6	25.3	24.6	23.9
M76-167	38.4	36.7	39.0	39.5	24.0	25.3	23.6	23.2
M76-281	37.8	36.5	37.8	39.0	23.4	24.0	23.7	22.5

UNIFORM TEST II, 1983

Strain		Parentage	Previous Testing*	Generation Composited
1.	BSR 201	Pride B-216 x AX901-40-2	3	F_4
2.	Century	Calland x Bonus	6	F_6
3.	Corsoy 79 (II)	$Corsoy^6$ x Lee 68	5	$BC_5\ F_3$
4.	Gnome	Williams x Ransom	2	F_4
5.	Hardin (I)	$Corsoy^3$ x Cutler 71	1980 UT II	F_3
6.	Pella (III)	L66L-137 x Calland	4	F_4
7.	Wells II	$Wells^8$ x Arksoy	1	$BC_7\ F_3$
8.	Wells II BC_6	Wells II^7 x (PI 86972-1 x PI 54615-1)	1	$69BC_6\ F_3$
9.	A79-133019	AP6(2YT)(F_4)C1	2	F_4
10.	A80-147002	NKS 1492 x ^{4}Pella	1	F_5
11.	A80-149020	L69U40-16-4 x A76-304020	P I	F_4
12.	A80-244003	NKS 1492 x Pella	1	F_4
13.	A80-244036	A74-204034 x Cumberland	1	F_4
14.	A81-153003	A76-202015 x Century	P II A	F_4
15.	A81-155001	A76-202015 x Schechinger S48	P I	F_4
16.	A81-155014	A76-202105 x A76-304020	P II A	F_4
17.	A81-156027	A76-202015 x A76-304020	P II A	F_4
18.	A81-157001	Pride $B-216^2$ x A2	P II A	$BC_1\ F_2$
19.	A81-157005	Pride $B-216^2$ x A2	P II A	$BC_1\ F_2$
20.	A81-157007	Pride $B-216^2$ x A2	1	$BC_1\ F_2$
21.	A81-257031	Schechinger S48 x Land O'Lakes Max	P II A	F_4
22.	C1603	Wells x C1512	P II B	F_6
23.	HC78-523	Harcor x Elf	1	F_5
24.	HW8008	L69U40-16-4 x Century	1	F_5
25.	HW8039	Weber x Pella	1	F_5
26.	HW8185	$Century^5$ x Williams 82	1	$BC_4\ F_3$
27.	L76-129B	Beeson x L70-2283	-	F_5
28.	L76-141B	Beeson x $_2$L70-2283	-	F_5
29.	L78-1491	$Williams^2$ x PI 88.788	1	F_4
30.	LN78-1136	L70T-543G x K1028	1	F_5
31.	LN80-9359	Weber x A76-202015	P III B	F_4
32.	LN80-9419	Weber x A76-202015	P II B	F_4

*Number of years in test or name of 1982 test

UNIFORM TEST II, 1983

Descriptive and Other Data

Strain	Descriptive Code
BSR 201	WGBr DYBf I
Century	PTBr SYBl I
Corsoy 79 (II)	PGBr DYY I
Gnome	PTT SYBl D
Hardin (I)	PGBr DYY I
Pella (III)	PTT SYBl I
Wells II	PGBr DYIb I
Wells II BC_6	PGBr DYIb I
A79-133019	PTBr SYBl I
A80-147002	WGT DYBf I
A80-149020	PGT DYIb I
A80-244003	WTT DYBl I
A80-244036	PTT SYBl I
A81-153003	PTBr DYBl I
A81-155001	PTBr DYBl I
A81-155014	PTBr DYBl I
A81-156027	WTBr DYBl I
A81-157001	WGBr DYY I
A81-157005	WGBr DYY I
A81-157007	WGBr DYY I
A81-257031	PTBr DYGr I
C1603	PGBr DYIb I
HC78-523	PTT SYBl D
HW8008	PTT IYBl I
HW8039	PTBr IYBl I
HW8185	PTBr IYBl I
L76-129B	PGBr SYBf I
L76-141B	PGBr SYBf I
L78-1491	WTT SYBl I
LN78-1136	WGT SYBf I
LN80-9359	WTBr IYBl I
LN80-9419	WTBr DYBl I

UNIFORM TEST II, 1983

Descriptive and Other Data

Chlorosis Score		Emergence Score	Shattering Score		
Ames	Lamberton	Ames	Manhattan	Pontiac	St. College, PA
4.2	4.8	3	2	1	0
2.7	2.0	4	2	2	0
4.2	4.4	1	2	2	0
3.5	3.6	1	1	1	0
3.5	3.8	1	1	2	0
3.7	3.4	3	1	1	0
2.7	3.8	4	3	2	2
3.3	3.6	1	3	4	3
3.5	2.2	5	2	1	0
4.7	4.2	1	2	2	0
1.3	1.8	1	1	3	2
4.0	4.6	1	2	2	1
3.8	4.8	1	2	1	0
2.5	3.8	1	2	1	0
1.3	2.6	4	2	3	0
4.7	4.6	1	2	1	1
3.0	4.0	1	3	2	2
3.2	3.0	1	2	4	1
2.3	3.8	1	3	5	2
2.3	3.8	3	1	4	2
2.3	2.2	1	2	1	0
2.3	2.0	1	2	2	0
3.2	4.4	4	1	1	0
2.3	4.0	5	2	4	3
3.2	4.4	2	2	1	0
2.3	4.6	5	2	3	1
2.5	1.6	1	1	1	0
1.7	2.6	2	2	2	1
3.8	2.8	4	2	1	0
3.8	4.0	5	1	1	0
2.2	3.0	1	1	1	0
2.0	3.4	5	3	2	0

UNIFORM TEST II, 1983

Disease Data

	BSR				BTS	PR[1]
	Ames		Lafayette	St. Paul	Ames	Lafayette
	Plant	Stem	Stem	Stem	a	a
Strain	n %	n %	n %	n %	Score	---Reaction---
BSR 201	100	38.2	0	55	4	R
Century	100	57.5	0	70	2	R
Corsoy 79 (II)	100	72.2	0	100	2	R
Gnome	100	36.7	40	100	2	S
Hardin (I)	100	42.8	0	85	2	R
Pella (III)	100	51.3	40	100	4	R
Wells II	100	52.1	60	100	3	R
Wells II BC_6	100	78.5	20	100	3	R
A79-133019	100	62.5	20	95	4	S
A80-147002	100	40.3	20	80	3	R
A80-149020	90	37.4	20	35	2	R
A80-244003	100	52.2	20	80	3	H
A80-244036	100	59.0	40	80	4	R
A81-153003	100	61.4	40	75	3	R
A81-155001	100	50.3	0	75	2	S
A81-155014	90	52.9	20	85	5	S
A81-156027	100	70.8	20	100	5	S
A81-157001	100	48.9	20	95	4	S
A81-157005	100	56.9	20	100	4	S
A81-157007	100	53.6	0	100	4	H
A81-257031	100	53.6	0	40	5	S
C1603	100	58.8	40	100	3	R
HC78-523	90	38.9	0	60	3	H
HW8008	100	75.4	40	100	2	R
HW8039	100	56.5	40	85	3	S
HW8185	100	50.0	40	70	3	R
L76-129B	100	43.1	20	100	5	R
L76-141B	100	59.4	40	100	3	R
L78-1491	90	39.2	40	100	5	S
LN78-1136	100	50.5	20	90	3	R
LN80-9359	100	42.8	0	85	2	S
LN80-9419	100	59.7	0	100	3	S

UNIFORM TEST II, 1983

Disease Data

PS	PSB	SMV	Germ	Hard Seeds	Green Seeds
		Lafayette			
a %	n %	a Score	%	%	%
0	0	2E	74	24	12
7	1	4E	78	14	8
14	1	5E	71	14	1
0	0	1	97	1	7
15	0	4E	77	17	13
5	8	5M	82	5	7
0	0	3E	73	0	25
4	2	3E	67	0	22
0	0	4M	38	53	16
5	1	5E	57	40	2
6	0	3M	65	26	8
3	0	5E	40	52	1
5	0	5M	42	44	3
1	1	5E	64	20	9
0	0	2M	48	26	27
0	0	3M	47	34	24
0	0	4M	72	0	14
1	0	3M	55	40	10
0	0	4E	54	30	26
0	0	3E	78	29	16
0	0	5S	78	16	23
0	0	4M	73	13	31
1	0	4E	87	7	30
1	0	3M	71	11	15
0	0	4M	78	5	27
1	0	4E	58	30	20
2	1	1	65	17	23
3	0	2M	82	8	18
0	3	4M	70	13	16
2	1	2M	89	2	9
1	0	4M	78	13	10
1	0	4M	91	2	12

UNIFORM TEST II, 1983

Regional Summary

Strain	Yield	Rank	Maturity	Lodging	Plant Height	Seed Quality	Seed Size	Composition	
								Protein	Oil
No. of Tests	20	20	20	22	22	19	21	5	5
	bu/a	No.	Date	Score	In.	Score	g/100	%	%
BSR 201	44.0	23	+0.6	1.9	32	1.9	14.4	40.4	22.3
Century	45.2	17	+2.9	1.5	33	1.9	17.3	40.5	22.5
Corsoy 79 (II)	45.3	16	9-21.4*	2.1	38	2.1	14.3	39.8	23.1
Gnome	40.4	30	+7.1	1.4	22	1.9	14.5	40.7	22.3
Hardin (I)	44.2	22	-2.0	1.8	34	2.1	13.9	38.2	23.5
Pella (III)	44.8	18	+7.0	1.6	37	2.0	18.0	38.8	23.2
Wells II	43.5	26	-0.3	1.4	35	2.4	15.2	40.5	22.5
Wells BC_6	42.9	28	-1.4	1.5	34	2.7	16.0	40.9	22.5
A79-133019 Elgin	46.0	10	+1.9	1.8	32	2.1	14.5	37.2	23.7
A80-147002	46.1	8	+2.0	2.0	33	2.1	14.2	39.2	22.7
A80-149020	46.7	5	-3.3	1.5	32	2.3	15.7	38.7	22.7
A80-244003	46.5	7	+2.1	2.0	36	2.0	15.2	38.2	23.3
A80-244036	46.6	6	+3.4	2.2	32	2.0	18.9	37.3	23.4
A81-153003	46.8	3	-0.1	1.6	32	2.1	16.3	39.4	23.2
A81-155001	45.8	11	-0.5	1.8	33	2.1	16.0	38.8	23.2
A81-155014	47.1	1	+1.0	1.6	33	2.1	18.6	37.8	23.9
A81-156027	45.5	13	+0.4	1.8	33	2.1	16.5	37.9	23.8
A81-157001	45.7	12	+0.2	1.5	35	2.0	15.5	39.1	23.0
A81-157005	45.4	15	-0.4	1.7	33	2.0	15.7	38.1	23.3
A81-157007	45.5	13	+1.1	1.5	32	1.9	15.8	37.6	23.5
A81-257031	47.0	2	+3.4	1.9	35	2.3	17.0	40.4	22.8
C1603	43.1	27	+2.3	1.5	33	2.2	16.7	40.2	23.4
HC78-523	44.0	23	+4.9	1.4	22	1.9	13.4	36.1	23.0
HW8008	44.5	21	-1.6	1.4	31	2.2	16.7	38.1	23.9
HW8039	46.1	8	+5.3	1.6	34	2.2	16.0	40.1	22.4
HW8185	44.6	20	+3.0	1.4	31	2.1	17.1	41.7	22.1
L76-129B	36.6	32	+4.0	1.6	33	2.7	15.0	39.0	22.1
L76-141B	39.6	31	-0.9	1.5	34	2.3	15.8	36.2	23.6
L78-1491	40.6	29	+5.2	1.8	34	2.1	13.8	41.6	22.0
LN78-1136	46.8	3	+1.9	1.4	30	1.8	16.2	38.4	23.4
LN80-9359	43.8	25	+3.4	1.8	29	1.9	14.0	38.3	22.6
LN80-9419	44.8	18	+0.2	1.8	30	2.0	14.5	38.1	24.1

*120 days after planting

UNIFORM TEST II, 1983

1982-1983 2-year means

Strain	Yield	Rank	Maturity	Lodging	Plant Height	Seed Quality	Seed Size	Composition Protein	Composition Oil
No. of Tests	44	44	43	46	46	40	44	9	9
	bu/a	No.	Date	Score	In.	Score	g/100	%	%
BSR 201	45.0	14	+0.3	2.1	33	1.8	14.7	40.3	20.3
Century	46.0	11	+2.4	1.5	35	1.9	17.7	40.5	20.6
Corsoy 79 (II)	46.5	7	9-21.7*	2.2	39	1.9	14.5	39.8	21.1
Elgin	47.1	6	+0.3	1.7	31	2.0	15.3	37.3	21.6
Gnome	42.9	16	+6.0	1.6	23	1.7	14.8	40.7	20.4
Pella (III)	46.5	7	+5.4	1.6	37	1.9	18.4	38.3	21.4
Wells II	41.2	17	-0.6	1.4	34	2.3	15.1	40.1	20.8
Wells II BC_6	43.4	15	-3.3	1.6	35	2.8	15.7	41.0	20.6
A80-147002	47.6	4	+1.5	2.1	33	2.2	14.7	39.1	21.0
A80-244003	47.9	2	+0.9	2.1	37	1.9	15.5	38.5	21.3
A80-244036	48.0	1	+1.6	2.4	33	1.9	19.2	37.5	21.7
A81-157007	45.8	13	+0.5	1.4	33	1.8	15.9	38.2	21.2
HC78-523	45.9	12	+3.9	1.6	24	1.8	13.3	38.0	20.9
HW8008	46.5	7	-1.8	1.5	33	2.0	17.2	38.8	21.9
HW8039	47.4	5	+3.0	1.5	35	2.0	16.6	39.8	20.8
HW8185	46.2	10	+1.9	1.4	33	1.9	17.3	41.5	20.2
L78-1491	40.9	18	+4.0	1.7	35	1.9	14.1	41.1	20.2
LN78-1136	47.7	3	+0.9	1.3	32	1.8	16.4	38.4	21.6

*122 days after planting

1981-1983 3-year means

No. of Tests	66	66	64	68	68	59	65	15	15
BSR 201	45.7	5	+0.5	2.2	33	1.8	15.0	41.1	19.6
Century	46.5	3	+2.6	1.6	35	1.9	17.8	41.2	19.8
Corsoy 79 (II)	46.5	3	9-20.4*	2.3	38	1.8	14.8	40.8	20.3
Elgin	47.8	1	+0.2	1.8	31	1.9	16.0	38.4	20.8
Gnome	43.5	6	+6.0	1.6	23	1.7	15.2	41.5	19.8
Pella (III)	47.7	2	+5.6	1.7	37	1.9	18.7	39.1	20.9

*122 days after planting

Several strains in this test were superior to the check varieties in yield. A81-155014, the highest yielding entry in the test, had a very high iron chlorosis score. A49-149020 was very high yielding and had excellent lodging resistance for an early Group II strain. The three lines resistant to the SCN, L76-129B, L76-141B, and L78-1491 were lower yielding than the check varieties in these tests on noninfested SCN soils.

UNIFORM TEST II, 1983

Strain	Mean	Iowa		Illinois			Indiana	
	20 Tests	Ames	Marshalltown	DeKalb	Pontiac[1]	Urbana	Bluffton	Greenfield
				YIELD (bu/a)				
BSR 201	44.0	54.6	51.5	48.1	38.2	40.2	38.2	38.6
Century	45.2	54.9	53.5	52.9	28.6	42.6	32.9	40.7
Corsoy 79 (II)	45.3	52.7	49.6	50.5	27.3	40.4	42.2	47.4
Gnome	40.4	49.8	47.4	47.3	42.6	42.3	30.3	35.8
Hardin (I)	44.2	54.3	49.0	51.1	24.5	45.6	29.2	39.5
Pella (III)	44.8	50.4	51.8	58.6	36.4	43.6	35.9	43.3
Wells II	43.5	48.8	46.9	49.8	28.0	42.9	40.6	43.2
Wells II BC_6	42.9	49.3	47.4	47.3	16.9	38.7	43.9	47.4
A79-133019	46.0	54.0	55.1	54.4	23.0	46.6	38.3	47.7
A80-147002	46.1	57.0	56.7	51.3	25.0	43.7	37.5	46.9
A80-149020	46.7	50.3	55.5	48.5	25.2	43.0	39.3	44.7
A80-244003	46.5	54.5	55.0	53.7	32.7	42.8	38.7	45.4
A80-244036	46.6	55.4	57.5	55.9	39.1	46.7	40.2	38.1
A81-153003	46.8	54.8	50.8	49.7	24.4	49.9	38.1	48.2
A81-155001	45.8	52.6	53.3	50.3	25.3	41.1	41.6	46.3
A81-155014	47.1	52.1	53.8	51.6	30.2	44.7	44.2	41.3
A81-156027	45.5	51.6	51.8	49.6	23.7	46.3	42.3	45.3
A81-157001	45.7	57.8	56.7	50.9	13.9	44.6	32.0	45.9
A81-157005	45.4	55.6	54.1	50.0	13.3	40.6	34.5	56.0
A81-157007	45.5	56.4	55.2	51.6	18.6	40.4	36.0	45.6
A81-257031	47.0	54.3	52.4	53.7	32.5	46.1	37.2	46.8
C1603	43.1	52.5	51.2	54.9	24.4	40.2	39.4	44.6
HC78-523	44.0	55.0	52.6	53.7	35.1	41.6	29.3	43.3
HW8008	44.5	54.9	50.6	50.9	19.9	42.1	29.3	40.8
HW8039	46.1	53.0	55.2	53.8	31.8	40.4	39.1	47.5
HW8185	44.6	54.6	52.4	49.8	34.1	39.9	45.3	43.7
L76-129B	36.6	45.1	44.5	47.7	27.5	39.7	25.8	44.4
L76-141B	39.6	45.5	41.1	43.3	29.7	35.6	28.4	46.2
L78-1491	40.6	44.8	40.6	42.9	33.1	40.4	38.7	54.6
LN78-1136	46.8	60.8	55.7	51.9	27.7	39.3	33.3	46.8
LN80-9359	43.8	52.8	53.4	51.4	24.2	46.3	40.6	43.3
LN80-9419	44.8	58.1	48.8	48.2	16.4	42.3	43.2	39.3
C.V. (%)		5.5	4.5	6.6	25.2	13.9	14.8	16.8
L.S.D. (5%)		4.1	3.3	5.4	10.8	9.6	9.0	12.5
Row sp. (in.)		27	27	30	30	30	30	30
Rows/plot		4	4	4	4	4	3	3
Reps		4	4	2	3	3	3	3

[1] Data not included in the mean.

UNIFORM TEST II, 1983

Ind.	Michigan		Minnesota		Neb.	N.J.	Ohio
Lafayette	Chesaning[1]	Ida	Lamberton	Waseca	Mead	Adelphia	Hoytville
			YIELD (bu/a)				
41.3	39.8	51.4	32.9	46.9	53.9	45.2	41.2
38.1	39.0	51.2	34.5	43.2	53.5	57.3	42.1
39.7	47.5	49.3	31.9	45.7	55.3	48.1	45.1
43.2	30.1	43.9	23.2	38.8	46.1	48.3	38.4
38.1	25.6	59.4	37.8	49.2	54.7	43.5	34.8
35.5	35.2	48.6	29.9	45.0	47.1	57.5	45.5
34.2	37.9	47.1	30.7	47.8	54.4	53.6	43.6
31.5	39.0	45.8	36.5	47.1	47.9	48.6	45.8
43.1	41.5	56.0	37.6	46.7	53.7	48.7	42.5
39.1	42.9	47.3	34.1	48.0	56.7	54.1	41.1
36.0	40.8	50.9	34.7	49.3	60.5	47.7	45.2
37.8	43.8	54.9	34.9	52.7	54.6	54.9	44.2
43.3	45.3	53.4	33.9	50.8	51.6	54.8	40.4
34.4	43.0	54.7	39.7	47.9	55.1	60.0	41.7
34.9	44.7	57.0	35.1	49.5	58.2	52.5	40.7
40.6	36.5	54.7	36.6	47.4	57.6	52.0	44.2
39.2	44.3	45.3	33.7	46.5	52.7	56.9	37.9
36.3	38.5	55.7	35.7	47.5	57.6	51.7	40.8
33.6	39.3	52.7	36.2	50.2	54.0	48.4	41.5
41.1	40.9	50.2	38.9	46.4	54.9	50.0	38.8
44.6	37.1	54.7	32.1	48.6	54.8	52.3	38.7
36.2	12.5	45.3	37.6	44.6	52.7	55.4	30.0
45.6	43.1	55.7	32.0	42.6	52.7	55.3	34.5
31.2	46.2	52.7	37.6	43.3	58.4	50.0	33.9
39.3	41.8	50.2	32.2	44.1	54.1	61.2	41.6
39.7	35.2	45.7	35.9	47.9	53.3	46.4	43.2
35.6	23.3	39.6	29.0	38.0	47.5	50.3	23.0
36.3	19.6	48.2	35.1	40.6	48.8	50.4	30.2
45.0	29.2	46.5	28.1	41.5	44.7	45.0	36.2
43.6	30.7	52.2	41.0	44.7	52.9	49.5	36.9
25.5	35.3	50.6	36.2	47.1	51.2	56.5	31.8
33.2	49.0	52.8	35.8	48.6	55.2	54.8	36.0
14.7	26.6	12.4	8.5	5.4	6.9	9.0	11.0
9.2	16.2	10.2	4.8	4.1	6.0	9.3	7.0
24	20	20	30	30	30	30	15
4	4	4	4	4	4	4	5
3	3	3	3	3	3	3	3

UNIFORM TEST II, 1983

	Ohio	Ont.		Penn.	S.D.		Wis.
Strain	Wooster	Harrow	Ridgetown	State College	Brookings	Centerville	Arlington
				YIELD (bu/a)			
BSR 201	30.6	49.7	42.7	32.7	50.6	47.8	42.2
Century	32.7	56.7	46.1	33.2	44.5	51.8	40.6
Corsoy 79 (II)	32.7	50.0	52.8	34.4	48.6	48.0	42.2
Gnome	36.3	50.9	38.0	26.3	37.7	43.9	39.4
Hardin (I)	41.1	49.5	32.4	34.5	55.2	42.1	42.2
Pella (III)	34.1	55.9	42.5	39.0	34.6	51.8	44.7
Wells II	31.5	52.8	36.7	33.0	50.4	45.1	36.0
Wells II BC_6	25.4	51.4	42.7	37.2	45.3	49.9	28.2
A79-133019	32.4	48.4	41.0	34.7	47.5	47.8	44.6
A80-147002	30.9	50.5	44.8	32.0	48.2	59.7	41.7
A80-149020	27.3	50.4	50.1	43.7	54.7	54.0	47.7
A80-244003	35.6	52.4	50.0	29.3	46.0	49.2	43.0
A80-244036	34.2	52.5	38.4	36.4	51.8	53.6	43.7
A81-153003	31.0	52.6	45.9	34.9	50.9	58.1	37.0
A81-155001	33.2	49.7	45.8	29.8	53.8	52.1	39.2
A81-155014	35.0	50.4	47.0	33.6	54.8	55.0	45.6
A81-156027	35.8	51.7	48.4	28.3	50.3	53.4	43.3
A81-157001	28.9	52.7	38.8	36.4	53.0	50.2	41.3
A81-157005	31.7	55.8	43.1	33.4	45.8	53.9	36.6
A81-157007	28.2	57.0	40.8	31.9	50.9	52.0	42.7
A81-257031	38.7	54.7	48.8	34.1	45.9	53.6	46.1
C1603	27.4	54.2	29.0	32.0	45.7	48.7	40.8
HC78-523	33.6	50.5	33.9	35.5	52.2	40.0	40.1
HW8008	35.4	49.6	48.6	29.4	54.6	52.0	44.5
HW8039	36.4	53.6	43.5	38.6	41.1	54.2	43.1
HW8185	31.0	54.9	45.0	32.0	45.5	45.3	39.8
L76-129B	25.7	41.0	8.0	34.4	32.8	46.6	34.2
L76-141B	33.9	42.5	27.5	32.5	44.4	45.3	36.2
L78-1491	27.6	53.4	36.6	31.4	35.8	43.8	35.1
LN78-1136	28.8	57.7	47.9	32.6	49.1	56.2	45.2
LN80-9359	32.8	52.0	38.1	30.5	47.0	44.6	43.8
LN80-9419	30.7	49.3	42.2	32.3	51.4	48.5	45.8
C.V. (%)	15.0	4.7	16.2	14.1	7.2	10.0	7.4
L.S.D. (5%)	7.9	5.0	9.3	N.S.	5.5	8.1	6.1
Row sp. (in.)	30	24	24	24	30	30	30
Rows/plot	4	4	4	4	4	4	4
Reps	3	2	4	3	3	3	3

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Strain	Mean	Iowa		Illinois			Indiana	
	20 Tests	Ames	Marshalltown	DeKalb	Pontiac	Urbana	Bluffton	Greenfield
			YIELD RANK					
BSR 201	23	12	20	27	3	26	17	30
Century	17	9	12	9	13	15	25	27
Corsoy 79 (II)	16	20	24	18	17	22	6	6
Gnome	30	27	27	29	1	16	27	32
Hardin (I)	22	15	25	15	21	7	30	28
Pella (III)	18	25	18	1	4	11	22	21
Wells II	26	29	29	21	14	13	8	24
Wells II BC_6	28	28	27	29	29	31	3	6
A79-133019	10	17	8	4	26	3	16	4
A80-147002	8	4	2	14	20	10	19	8
A80-149020	5	26	5	25	19	12	12	17
A80-244003	7	14	9	6	8	14	14	15
A80-244036	6	7	1	2	2	2	10	31
A81-153003	3	11	22	23	22	1	18	3
A81-155001	11	21	14	19	18	20	7	11
A81-155014	1	23	11	12	11	8	2	25
A81-156027	13	24	18	24	25	4	5	16
A81-157001	12	3	2	16	31	9	26	13
A81-157005	15	6	10	20	32	21	23	1
A81-157007	13	5	6	11	28	22	21	14
A81-257031	2	15	16	6	9	6	20	9
C1603	27	22	21	3	23	26	11	18
HC78-523	23	8	15	6	5	19	28	21
HW8008	21	9	23	16	27	18	28	26
HW8039	8	18	6	5	10	22	13	5
HW8185	20	12	16	21	6	28	1	20
L76-129B	32	31	30	28	16	29	32	19
L76-141B	31	30	31	31	12	32	31	12
L78-1491	29	32	32	32	7	22	14	2
LN78-1136	3	1	4	10	15	30	24	9
LN80-9359	25	19	13	13	24	4	8	21
LN80-9419	18	2	26	26	30	16	4	29

UNIFORM TEST II, 1983

Strain	Ind. Lafayette	Michigan Chesaning	Michigan Ida	Minnesota Lamberton	Minnesota Waseca	Neb. Mead	N.J. Adelphia	Ohio Hoytville
			YIELD RANK					
BSR 201	8	15	15	23	17	17	30	14
Century	16	17	16	19	27	19	4	10
Corsoy 79 (II)	11	2	21	27	21	7	27	4
Gnome	6	27	31	32	31	31	26	21
Hardin (I)	16	29	1	4	6	12	32	26
Pella (III)	24	24	22	29	22	30	3	2
Wells II	27	20	25	28	12	14	13	7
Wells II BC_6	30	17	27	9	15	28	24	1
A79-133019	7	12	3	5	18	18	23	9
A80-147002	15	10	24	20	9	6	12	15
A80-149020	22	14	17	18	5	1	28	3
A80-244003	18	7	6	17	1	13	9	5
A80-244036	5	4	10	21	2	25	10	18
A81-153003	26	9	7	2	10	9	2	11
A81-155001	25	5	2	15	4	3	14	17
A81-155014	10	22	7	8	14	4	16	5
A81-156027	14	6	29	22	19	22	5	22
A81-157001	19	19	4	14	13	4	17	16
A81-157005	28	16	12	10	3	16	25	13
A81-157007	9	13	19	3	20	10	20	19
A81-257031	3	21	7	25	7	11	15	20
C1603	21	32	29	5	24	22	7	31
HC78-523	1	8	4	26	28	22	8	27
HW8008	31	3	12	5	26	2	20	28
HW8039	13	11	19	24	25	15	1	12
HW8185	11	24	28	12	10	20	29	8
L76-129B	23	30	32	30	32	29	19	32
L76-141B	19	31	23	15	30	27	18	30
L78-1491	2	28	26	31	29	32	31	24
LN78-1136	4	26	14	1	23	21	22	23
LN80-9359	32	23	18	10	15	26	6	29
LN80-9419	29	1	11	13	7	8	10	25

UNIFORM TEST II, 1983

Ohio	Ont.		Penn.	S.D.		Wis.
Wooster	Harrow	Ridgetown	State College	Brookings	Centerville	Arlington
			YIELD RANK			
24	25	16	18	12	22	15
15	3	9	16	26	14	21
15	24	1	11	16	21	15
4	19	25	32	29	29	24
1	28	29	10	1	31	15
10	4	18	2	31	14	6
19	11	26	17	13	27	29
32	18	16	4	25	17	32
17	30	20	9	18	22	7
22	20	13	22	17	1	18
30	22	2	1	3	6	1
6	15	3	30	20	18	13
9	14	23	5	8	8	10
20	13	10	8	10	2	26
13	25	11	28	5	11	25
8	22	8	14	2	4	4
5	17	6	31	14	10	11
25	12	22	5	6	16	19
18	5	15	15	22	7	27
27	2	21	25	10	12	14
2	7	4	13	21	8	2
29	8	30	22	23	19	20
12	20	28	7	7	32	22
7	27	5	29	4	12	8
3	9	14	3	28	5	12
20	6	12	22	24	25	23
31	32	32	11	32	24	31
11	31	31	20	27	25	28
28	10	27	26	30	30	30
26	1	7	19	15	3	5
14	16	24	27	19	28	9
23	29	19	21	9	20	3

UNIFORM TEST II, 1983

Strain	Mean 20 Tests	Iowa Ames	Iowa Marshalltown	Illinois DeKalb	Illinois Pontiac	Illinois Urbana	Indiana Bluffton	Indiana Greenfield
			MATURITY (date)					
BSR 201	+0.6	+3		-2	+6	+3	0	-3
Century	+2.9	+5		+2	+6	+4	+3	0
Corsoy 79 (II)	9-21.4	9-17		10-2	9-10	9-15	9-14	9-15
Gnome	+7.1	+13		+6	+18	+10	+6	+3
Hardin (I)	-2.0	-2		-2	-7	-1	-3	-1
Pella (III)	+7.0	+11		+6	+17	+11	+7	+5
Wells II	-0.3	+1		-5	+3	0	0	-2
Wells II BC_6	-1.4	-2		-8	0	+1	-1	-3
A79-133019	+1.9	+6		+1	+6	+4	+3	-2
A80-147002	+2.0	+7		-1	+2	+4	+1	+3
A80-149020	-3.3	-2		-12	0	-2	-2	-8
A80-244003	+2.1	+6		0	+6	+2	+1	+2
A80-244036	+3.4	+7		+1	+16	+6	+5	+4
A81-153003	-0.1	+2		-8	+1	+1	-1	+3
A81-155001	-0.5	+1		-3	+2	0	-2	+3
A81-155014	+1.0	+2		-1	+10	+1	+2	+2
A81-156027	+0.4	+3		-2	+4	+2	0	-1
A81-157001	+0.2	+3		-4	0	+1	+3	-4
A81-157005	-0.4	+2		-5	-1	-3	0	+2
A81-157007	+1.1	+2		-2	0	0	+2	0
A81-257031	+3.4	+8		+2	+12	+4	+4	+2
C1603	+2.3	+5		-2	+5	+3	+4	0
HC78-523	+4.9	+9		+2	+14	+7	-2	+3
HW8008	-1.6	-3		-7	+2	0	-1	-6
HW8039	+5.3	+9		+4	+14	+9	+7	+6
HW8185	+3.0	+4		0	+6	+4	+3	+4
L76-129B	+4.0	+6		+1	+10	+3	+4	+2
L76-141B	-0.9	-3		-2	+1	0	-1	+1
L78-1491	+5.2	+9		+4	+17	+5	+5	+6
LN78-1136	+1.9	+5		0	0	+5	+1	+1
LN80-9359	+3.4	+10		+2	+8	+4	+2	+2
LN80-9419	+0.2	+6		-1	0	0	0	-1
Date Planted	5-25	5-13	5-16	6-7	5-31	5-30	6-2	5-30
Days to Mature	120	127		117	102	108	104	108

UNIFORM TEST II, 1983

Ind.	Mich.		Minnesota		Neb.	N.J.	Ohio
Lafayette	Chesaning	Ida	Lamberton	Waseca	Mead	Adelphia	Hoytville
			MATURITY (date)				
-2	+4	+1	+2	+1	-1	-4	-1
+1	+5	+3	0	+1	+1	+4	+4
9-9	9-30	9-16	9-16	9-28	9-13	9-23	9-12
+6	+11	+3	+8	+7	+5	+2	+9
0	+2	-1	-5	0	-1	-4	-1
+3	+10	+4	+5	+6	+6	+3	+8
+1	+4	-2	-1	0	0	-3	+1
-1	+2	-4	-1	0	-1	-4	-2
-1	+2	+1	+2	+3	0	-1	+3
-1	+5	0	+3	+2	-1	-2	+2
-6	+1	-4	-6	0	0	-6	-3
-2	+5	+2	+2	0	-1	-2	+2
+4	+2	+3	0	+2	+3	-2	+2
-2	+2	-2	-4	0	-1	-1	+1
-3	+2	-1	-3	0	0	-5	0
-2	+9	-1	0	0	0	-3	+1
-3	+2	0	0	0	0	-4	+1
-3	+5	-1	0	0	+2	-3	+1
-5	+3	-1	0	0	0	-5	0
-1	+7	+1	+2	+1	+1	-1	+1
0	+3	+4	+2	+1	0	0	+4
+2	+9	0	+3	0	0	-1	+2
+3	+9	+4	+5	+4	+3	+5	+6
-2	+3	0	-4	-1	0	-8	0
-1	+7	+3	+1	+3	+5	+4	+5
0	+4	+4	0	+1	+1	0	+4
-1	+9	+5	+7	+2	+2	0	+3
-3	+6	-3	-3	0	-1	0	-2
+6	+7	+5	+3	+1	+2	0	+6
+3	+3	+2	+1	+1	+2	0	+2
-1	+5	+3	+4	+1	+2	0	+6
-4	+4	0	+2	+1	+1	-4	+1
5-11	6-11	5-27	5-5	5-16	5-24	5-26	5-30
121	111	112	134	135	112	120	105

UNIFORM TEST II, 1983

Strain	Ohio	Ont.		Penn.	S.D.		Wis.
	Wooster	Harrow	Ridge-town	State College	Brookings	Center-ville	Arlington
			MATURITY (date)				
BSR 201	+3	-1	+1		-1	+5	-2
Century	+3	+3	+5		+4	+5	-1
Corsoy 79 (II)	10-4	10-1	9-23		10-3	9-26	10-1
Gnome	+8	+5	+7		+7	+8	-1
Hardin (I)	+2	-4	-2		-2	-5	-2
Pella (III)	+7	+6	+6		+7	+10	+1
Wells II	+1	+2	-2		-2	-1	0
Wells II BC_6	+1	-1	-1		-2	-1	0
A79-133019	0	+2	+1		+1	+6	-1
A80-147002	+1	+2	+5		+1	+7	0
A80-149020	0	-6	0		-2	-2	-3
A80-244003	+4	+2	+4		+3	+6	0
A80-244036	+3	+3	+1		+4	+6	-2
A80-153003	+1	+2	+3		-2	0	-2
A81-155001	+2	-1	0		0	+2	-3
A81-155014	+2	-1	+3		-3	+2	-3
A81-156027	+2	+2	+1		-2	+3	-1
A81-157001	+1	+1	+3		0	+2	-2
A81-157005	0	+1	+5		0	+1	0
A81-157007	+1	+1	+5		0	+3	-1
A81-257031	+6	+2	+6		+2	+5	-1
C1603	+3	+2	+4		+3	+3	+1
HC78-523	+6	+3	+6		+5	+6	-1
HW8008	0	-1	+1		-1	0	-3
HW8039	+4	+4	+5		+7	+10	-1
HW8185	+3	+2	+5		+5	+7	0
L76-129B	+2	+2	+7		+7	+6	+2
L76-141B	+1	-1	0		-1	-2	-5
L78-1491	+8	+3	+8		+3	+7	-1
LN78-1136	0	+1	+5		0	+6	0
LN80-9359	+3	+1	+6		+3	+7	-1
LN80-9419	0	+2	+3		0	+3	-2
Date Planted	5-10	6-14	5-17	6-8	5-28	5-26	5-16
Days to Mature	147	109	129		128	123	138

UNIFORM TEST II, 1983

Strain	Mean 22 Tests	Iowa		Illinois			Indiana	
		Ames	Marshalltown	DeKalb	Pontiac	Urbana	Bluffton	Greenfield
				LODGING (score)				
BSR 201	1.9	2.9	3.0	2.3	3.0	1.1	1.3	1.2
Century	1.5	2.1	2.2	2.0	1.7	1.0	1.2	1.0
Corsoy 79 (II)	2.1	3.1	3.7	2.3	3.3	1.2	1.2	1.7
Gnome	1.4	1.6	1.9	1.5	1.8	1.1	1.0	1.0
Hardin (I)	1.8	3.5	3.5	2.2	2.5	1.4	1.0	1.3
Pella (III)	1.6	1.9	2.5	1.7	1.7	1.1	1.3	1.2
Wells II	1.4	2.1	2.1	1.8	1.7	1.0	1.0	1.0
Wells II BC_6	1.5	2.2	2.6	2.0	1.7	1.0	1.0	1.3
A79-133019	1.8	3.0	2.9	1.8	1.8	1.6	1.2	1.3
A80-147002	2.0	2.8	3.7	2.2	2.2	1.2	1.5	1.3
A80-149020	1.5	2.2	2.3	1.8	2.3	1.1	1.0	1.0
A80-244003	2.0	2.8	3.5	2.2	2.5	1.2	1.2	1.2
A80-244036	2.2	3.2	4.0	3.2	3.0	2.0	1.7	1.5
A81-153003	1.6	2.2	3.0	2.0	1.5	1.1	1.2	1.0
A81-155001	1.8	3.0	3.6	2.2	2.0	1.2	1.0	1.2
A81-155014	1.6	2.1	2.5	2.0	2.0	1.1	1.2	1.2
A81-156027	1.8	2.3	2.5	1.8	2.0	1.1	1.0	1.2
A81-157001	1.5	2.3	2.7	1.8	1.8	1.1	1.2	1.0
A81-157005	1.7	2.5	2.7	2.0	1.7	1.1	1.0	1.2
A81-157007	1.5	1.9	1.9	1.8	1.5	1.0	1.0	1.0
A81-257031	1.9	2.6	3.7	2.0	2.3	1.2	1.3	1.3
C1603	1.5	1.8	2.6	2.0	1.5	1.0	1.0	1.0
HC78-523	1.4	1.5	1.9	1.7	1.8	1.1	1.0	1.2
HW8008	1.4	1.8	2.3	1.5	1.5	1.0	1.0	1.0
HW8039	1.6	2.1	2.6	1.7	2.3	1.1	1.0	1.2
HW8185	1.4	1.9	1.8	1.8	1.7	1.1	1.2	1.3
L76-129B	1.6	1.9	2.7	2.0	2.2	1.1	1.0	1.2
L76-141B	1.5	1.7	2.3	2.2	2.0	1.1	1.0	1.0
L78-1491	1.8	2.6	3.0	2.0	2.3	1.1	1.3	1.5
LN78-1136	1.4	1.4	2.2	1.5	1.5	1.0	1.0	1.0
LN80-9359	1.8	3.2	3.4	2.0	1.8	1.3	1.3	1.2
LN80-9419	1.8	2.5	3.8	2.2	1.5	1.0	1.3	1.0

UNIFORM TEST II, 1983

Strain	Ind.	Michigan		Minnesota		Neb.	N.J.	Ohio
	Lafayette	Chesaning	Ida	Lamberton	Waseca	Mead	Adelphia	Hoytville
				LODGING (score)				
BSR 201	1.3	2.0	2.7	1.7	2.0	1.0	1.0	2.2
Century	1.0	1.3	1.7	1.0	2.0	1.0	1.0	1.5
Corsoy 79 (II)	2.0	2.0	2.0	2.0	2.3	1.2	1.7	2.2
Gnome	1.0	1.0	1.0	1.0	2.0	1.0	1.0	1.2
Hardin (I)	2.2	1.0	2.0	2.3	2.0	1.0	1.0	1.4
Pella (III)	1.0	1.3	1.7	1.3	2.3	1.0	1.0	1.7
Wells II	1.0	1.0	1.3	1.0	2.0	1.0	1.0	1.7
Wells II BC_6	1.0	1.3	1.0	1.3	2.0	1.0	1.0	2.0
A79-133019	1.0	1.3	2.7	2.0	2.7	1.0	1.0	1.5
A80-147002	1.2	1.7	1.7	2.3	2.7	1.0	1.0	1.9
A80-149020	1.0	1.3	1.0	1.0	2.0	1.0	1.0	1.8
A80-244003	1.3	2.7	1.7	2.3	3.0	1.0	1.3	2.1
A80-244036	1.5	3.0	2.7	2.0	2.7	1.3	1.0	1.9
A81-153003	1.0	1.3	2.0	1.0	2.3	1.0	1.0	1.8
A81-155001	1.3	1.7	2.0	1.3	2.0	1.0	1.0	1.9
A81-155014	1.0	1.0	1.3	1.3	2.0	1.0	1.0	1.6
A81-156027	1.0	1.7	2.0	2.0	2.7	1.0	1.0	1.8
A81-157001	1.0	1.3	1.3	1.3	2.0	1.0	1.0	1.6
A81-157005	1.0	1.3	1.7	2.3	2.0	1.0	1.0	1.8
A81-157007	1.0	1.3	1.7	3.0	2.3	1.0	1.0	1.4
A81-257031	1.0	1.7	2.3	2.0	2.3	1.0	1.0	1.5
C1603	1.0	1.0	1.3	1.7	2.0	1.0	1.0	1.1
HC78-523	1.0	1.0	1.3	1.0	1.7	1.0	1.0	1.2
HW8008	1.0	1.0	1.0	1.0	2.0	1.0	1.0	1.3
HW8039	1.0	1.7	1.7	1.3	2.0	1.0	1.0	1.6
HW8185	1.0	1.0	1.0	1.3	2.0	1.0	1.0	1.4
L76-129B	1.2	1.0	1.7	3.0	2.0	1.0	1.0	1.2
L76-141B	1.0	1.0	1.3	1.7	1.7	1.0	1.0	1.5
L78-1491	1.0	1.3	1.7	1.7	2.3	1.0	1.0	1.6
LN78-1136	1.0	1.0	1.3	1.0	2.0	1.0	1.0	1.3
LN80-9359	1.3	1.3	2.0	3.0	2.0	1.0	1.0	1.3
LN80-9419	1.0	2.0	2.7	3.0	2.3	1.0	1.0	1.3

UNIFORM TEST II, 1983

Ohio	Ont.		Penn.	S.D.		Wis.
Wooster	Harrow	Ridgetown	State College	Brookings	Centerville	Arlington
			LODGING (score)			
1.7	1.5	1.7	1.0	3.0	1.0	3.3
1.2	1.3	1.7	1.0	3.0	1.0	3.0
1.3	1.3	3.0	1.0	3.3	1.0	3.7
1.4	1.0	2.0	1.0	2.0	1.0	2.5
1.5	1.3	1.5	1.0	3.3	1.0	3.3
1.5	1.3	2.0	1.0	3.0	1.0	2.7
1.4	1.0	1.2	1.0	2.0	1.0	2.7
1.3	1.0	1.5	1.0	2.7	1.0	2.3
1.2	1.3	1.5	1.0	3.7	1.0	3.5
1.3	1.5	2.0	1.0	3.7	1.7	3.3
1.2	1.5	1.0	1.0	2.0	1.0	2.8
1.5	1.8	2.5	1.0	3.0	1.3	3.2
1.6	1.8	2.5	1.0	4.0	1.3	3.8
1.4	1.3	1.7	1.0	3.3	1.0	3.0
1.3	1.5	2.3	1.0	3.7	1.0	3.3
1.3	1.5	2.3	1.0	3.0	1.0	3.2
1.4	1.5	2.7	1.0	3.7	1.0	3.0
1.3	1.5	1.0	1.0	3.0	1.0	2.7
1.2	1.3	2.0	1.0	3.3	1.0	2.8
1.1	1.3	1.0	1.0	2.3	1.0	2.3
1.3	1.5	2.7	1.0	3.3	1.3	3.3
1.2	1.0	1.5	1.0	2.7	1.0	2.7
1.4	1.0	1.0	1.0	2.0	1.0	3.0
1.2	1.3	1.2	1.0	2.3	1.0	2.5
1.4	1.3	1.5	1.0	3.3	1.0	3.0
1.2	1.0	1.2	1.0	3.0	1.0	2.8
1.2	1.3	1.0	1.0	3.0	1.0	3.2
1.4	1.0	1.2	1.0	3.3	1.0	3.2
1.2	1.3	2.3	1.0	3.0	1.3	3.0
1.2	1.0	1.0	1.0	3.0	1.0	2.5
1.2	1.3	1.7	1.0	3.3	1.3	3.7
1.2	1.3	1.2	1.0	4.0	1.0	3.3

UNIFORM TEST II, 1983

Strain	Mean 22 Tests	Iowa		Illinois			Indiana	
		Ames	Marshalltown	DeKalb	Pontiac	Urbana	Bluffton	Greenfield
				PLANT HEIGHT (in.)				
BSR 201	32	37	34	34	35	27	30	28
Century	33	38	37	33	33	26	28	28
Corsoy 79 (II)	38	38	40	38	36	26	35	35
Gnome	22	27	25	19	28	19	17	17
Hardin (I)	34	40	35	37	33	28	28	30
Pella (III)	37	40	42	34	35	33	33	32
Wells II	35	39	41	34	35	32	30	31
Wells II BC_6	34	39	38	36	32	26	30	34
A79-133019	32	38	35	32	29	31	28	30
A80-147002	33	40	36	34	34	27	27	31
A80-149020	32	35	36	32	31	25	30	29
A80-244003	36	41	40	38	37	31	32	31
A80-244036	32	36	37	32	33	30	27	28
A81-153003	32	36	38	33	30	27	29	29
A81-155001	33	36	38	36	33	29	30	30
A81-155014	33	35	37	33	34	27	32	30
A81-156027	33	36	38	30	30	28	29	31
A81-157001	35	40	42	35	36	29	29	30
A81-157005	33	39	38	34	31	27	28	33
A81-157007	32	38	39	32	34	26	27	30
A81-257031	35	43	38	36	32	32	30	32
C1603	33	38	42	36	32	28	31	31
HC78-523	22	25	22	21	24	16	18	21
HW8008	31	35	38	32	32	26	23	26
HW8039	34	40	40	32	32	27	32	32
HW8185	31	36	37	29	33	25	30	27
L76-129B	33	38	39	34	34	31	24	34
L76-141B	34	37	37	32	38	28	31	35
L78-1491	34	41	38	33	32	28	33	34
LN78-1136	30	33	36	32	31	23	26	29
LN80-9359	29	37	36	27	27	26	22	26
LN80-9419	30	34	36	30	27	25	30	25

UNIFORM TEST II, 1983

Ind.	Michigan		Minnesota		Neb.	N.J.	Ohio
Lafayette	Chesaning	Ida	Lamberton	Waseca	Mead	Adelphia	Hoytville
			PLANT HEIGHT (in.)				
35	30	41	36	32	35	28	31
33	33	45	38	30	32	29	28
41	37	45	46	36	37	36	36
26	17	26	25	21	20	18	21
40	27	45	41	30	35	29	26
35	39	44	38	37	39	32	35
35	28	44	36	34	35	33	36
33	32	41	39	35	34	31	34
33	31	37	34	34	32	27	33
34	32	38	35	33	34	28	32
31	31	40	34	30	33	28	34
37	36	45	42	36	36	31	37
32	33	38	34	31	34	30	29
32	31	39	35	32	28	31	29
35	31	45	36	32	33	30	32
35	27	40	36	33	33	30	34
33	35	40	37	34	34	30	32
37	33	44	39	31	35	31	34
33	30	41	39	33	34	28	34
34	32	38	38	32	33	29	30
35	31	44	38	35	36	30	32
35	24	40	41	36	35	33	23
25	23	29	23	22	20	18	21
29	32	38	36	28	31	29	28
33	36	43	39	33	34	31	32
31	26	38	34	30	31	26	32
35	26	40	39	33	39	31	24
36	30	43	41	30	35	31	30
36	35	44	40	33	35	30	34
33	26	41	37	29	31	26	29
29	26	35	36	29	33	26	23
28	30	38	36	29	31	26	26

UNIFORM TEST II, 1983

Strain	Ohio	Ont.		Penn.	S.D.		Wis.
	Wooster	Harrow	Ridgetown	State College	Brookings	Center-ville	Arlington
			PLANT HEIGHT (in.)				
BSR 201	26	31	32	23	42	32	35
Century	28	33	36	23	46	37	39
Corsoy 79 (II)	31	34	38	28	52	38	42
Gnome	21	25	23	20	26	17	22
Hardin (I)	31	29	28	28	48	37	38
Pella (III)	31	33	37	27	50	38	40
Wells II	29	30	34	24	48	35	38
Wells II BC_6	26	29	36	26	45	34	34
A79-133019	26	29	31	21	37	33	35
A80-147002	24	33	32	22	43	35	32
A80-149020	26	35	33	23	47	34	37
A80-244003	27	36	36	23	47	35	37
A80-244036	29	34	32	23	43	33	33
A81-153003	24	30	32	24	42	33	33
A81-155001	26	31	32	23	44	35	36
A81-155014	27	32	33	23	39	34	36
A81-156027	27	32	36	24	40	33	32
A81-157001	24	35	31	27	48	36	39
A81-157005	25	38	32	24	45	34	34
A81-157007	24	31	28	23	39	34	37
A81-257031	28	36	39	25	46	36	36
C1603	25	30	30	25	47	36	38
HC78-523	22	25	21	23	29	15	27
HW8008	26	28	32	20	40	33	36
HW8039	26	32	33	25	41	33	37
HW8185	26	29	33	24	37	29	34
L76-129B	24	32	25	27	47	38	37
L76-141B	29	30	29	27	47	35	39
L78-1491	27	32	35	24	45	26	38
LN78-1136	22	26	30	21	42	31	36
LN80-9359	22	29	30	21	36	30	30
LN80-9419	23	30	29	22	41	33	33

UNIFORM TEST II, 1983

Strain	Mean 19 Tests	Iowa		Illinois			Indiana	
		Ames	Marshalltown	DeKalb	Pontiac	Urbana	Bluffton	Greenfield
				SEED QUALITY (score)				
BSR 201	1.9	1.6		1.2	1.8	2.3	2.0	1.5
Century	1.9	1.6		1.2	2.2	2.7	1.5	1.0
Corsoy 79 (II)	2.1	2.0		1.4	1.8	2.5	1.5	1.5
Gnome	1.9	1.6		1.2	1.3	1.7	1.0	1.0
Hardin (I)	2.1	2.0		1.3	2.4	2.2	1.5	1.0
Pella (III)	2.0	2.0		1.2	1.9	2.3	1.0	1.0
Wells II	2.4	2.1		1.3	1.9	3.8	2.0	2.0
Wells II BC_6	2.7	2.0		1.4	2.4	4.0	2.0	2.0
A79-133019	2.1	2.1		1.2	1.6	2.7	2.0	1.5
A80-147002	2.1	1.7		1.5	1.9	2.3	1.5	1.5
A80-149020	2.3	2.1		1.4	2.3	3.0	1.5	2.0
A80-244003	2.0	1.8		1.2	1.7	2.2	1.0	1.5
A80-244036	2.0	1.6		1.2	2.2	2.8	1.0	1.0
A81-153003	2.1	1.6		1.1	2.0	2.7	2.0	1.5
A81-155001	2.1	2.2		1.1	2.2	3.5	1.5	1.5
A81-155014	2.1	1.6		1.1	2.0	3.5	2.0	2.0
A81-156027	2.1	2.0		1.2	2.3	3.2	1.5	1.5
A81-157001	2.0	2.0		1.2	2.0	2.3	1.5	1.5
A81-157005	2.0	1.6		1.2	2.0	2.7	1.5	1.5
A81-157007	1.9	1.6		1.2	1.9	2.2	1.5	2.0
A81-257031	2.3	1.9		1.2	2.2	2.7	1.5	1.5
C1603	2.2	2.1		1.4	1.7	3.3	1.5	1.5
HC78-523	1.9	1.7		1.2	1.7	2.0	1.0	1.0
HW8008	2.2	2.2		1.3	1.9	2.7	1.5	2.5
HW8039	2.2	1.5		1.2	1.8	3.0	1.0	1.5
HW8185	2.1	1.9		1.4	2.0	2.7	1.5	1.5
L76-129B	2.7	2.3		1.3	3.0	3.8	4.0	1.5
L76-141B	2.3	2.1		1.4	2.3	3.3	2.0	2.0
L78-1491	2.1	1.8		1.3	1.7	2.5	1.5	1.5
LN78-1136	1.8	1.8		1.3	1.8	2.3	1.5	1.5
LN80-9359	1.9	1.8		1.1	1.2	2.3	2.0	1.0
LN80-9419	2.0	1.3		1.1	1.7	2.7	1.5	1.5

UNIFORM TEST II, 1983

Strain	Ind. Lafayette	Mich. Chesaning	Ida	Minnesota Lamberton	Waseca	Neb. Mead	N.J. Adelphia	Ohio Hoytville
				SEED QUALITY (score)				
BSR 201	2.0			2.7	2.7	1.8	1.3	1.4
Century	2.0			2.7	3.0	1.3	2.3	1.3
Corsoy 79 (II)	2.5			2.3	3.3	2.0	2.0	1.3
Gnome	1.5			3.3	3.0	1.0	1.3	1.2
Hardin (I)	3.0			2.7	3.3	2.0	1.7	1.5
Pella (III)	1.5			3.0	3.3	1.2	1.7	1.2
Wells II	2.0			2.7	3.3	2.5	1.7	1.6
Wells II BC_6	3.0			3.3	3.3	3.0	2.0	2.1
A79-133019	1.5			3.0	2.7	1.3	1.3	1.7
A80-147002	2.0			2.3	3.0	2.0	2.0	1.7
A80-149020	3.0			2.7	3.3	2.0	2.7	1.7
A80-244003	1.5			2.7	3.3	1.3	1.3	1.5
A80-244036	1.5			2.7	3.0	1.8	2.0	1.5
A81-153003	2.0			2.3	3.3	1.8	2.0	1.8
A81-155001	3.5			2.3	3.0	1.8	1.3	1.3
A81-155014	2.5			2.7	2.7	2.3	1.3	2.0
A81-156027	3.0			3.0	2.7	2.0	1.3	1.7
A81-157001	2.5			2.3	2.7	2.0	1.3	1.5
A81-157005	1.5			2.3	3.3	2.0	1.7	1.5
A81-157007	2.0			2.3	3.3	1.8	1.3	1.5
A81-257031	2.0			3.0	3.0	2.0	2.0	1.6
C1603	2.0			3.0	3.0	2.0	2.0	2.0
HC78-523	1.5			2.7	2.7	1.0	2.3	1.3
HW8008	3.0			3.3	3.0	1.7	1.3	1.2
HW8039	1.5			3.0	3.0	1.8	2.0	1.7
HW8185	2.0			3.0	2.7	1.7	2.3	1.3
L76-129B	3.0			3.0	3.0	2.2	1.3	3.3
L76-141B	1.5			2.7	3.0	2.2	3.0	3.3
L78-1491	1.5			2.2	3.3	1.7	1.7	1.7
LN78-1136	1.5			2.3	2.3	1.5	2.3	1.4
LN80-9359	1.5			3.0	2.7	1.2	1.3	1.7
LN80-9419	1.5			2.3	3.0	1.3	2.0	1.5

UNIFORM TEST II, 1983

Ohio	Ont.		Penn.	S.D.		Wis.
Wooster	Harrow	Ridgetown	State College	Brookings	Centerville	Arlington
			SEED QUALITY (score)			
1.4	2.0	2.0	2.5	2.0	2.0	2.3
1.6	1.0	2.0	2.5	3.0	2.0	2.0
1.8	2.0	2.0	2.0	2.0	3.0	3.3
1.2	2.0	2.0	2.0	4.0	4.0	2.7
1.4	2.0	2.0	1.5	2.0	4.0	2.7
1.3	2.0	2.0	1.5	4.0	4.0	2.7
2.1	2.0	2.0	2.5	3.0	4.0	3.0
2.5	2.0	2.0	2.5	3.0	4.0	4.0
1.6	2.0	2.0	2.0	3.0	4.0	2.0
2.3	2.0	2.0	2.0	2.0	4.0	3.0
1.7	2.0	2.0	2.0	2.0	3.0	2.7
1.3	1.0	2.0	2.5	4.0	3.0	3.0
1.3	2.0	2.0	1.5	4.0	2.0	2.0
1.8	3.0	2.0	2.0	2.0	2.0	2.7
2.0	1.0	2.0	2.5	2.0	2.0	3.0
2.1	2.0	2.0	2.5	2.0	2.0	2.7
2.0	2.0	2.0	2.5	2.0	2.0	2.7
2.0	2.0	2.0	2.0	2.0	2.0	2.7
1.8	3.0	2.0	2.0	2.0	2.0	3.0
1.8	1.0	2.0	2.0	2.0	2.0	3.0
1.9	3.0	2.0	2.5	3.0	4.0	2.7
2.0	2.0	2.0	2.0	3.0	2.0	3.7
1.4	1.0	2.0	2.0	4.0	3.0	2.7
1.8	2.0	2.0	2.5	3.0	3.0	2.7
2.1	2.0	2.0	1.5	4.0	4.0	2.3
2.3	1.0	2.0	1.5	5.0	2.0	2.0
2.6	2.0	3.0	2.5	4.0	2.0	3.7
2.4	2.0	2.0	1.5	3.0	2.0	2.7
1.3	2.0	2.0	2.0	5.0	4.0	2.7
1.2	1.0	2.0	1.5	2.0	3.0	2.7
1.4	1.0	2.0	2.0	3.0	4.0	2.3
1.4	2.0	2.0	2.0	3.0	4.0	2.3

UNIFORM TEST II, 1983

Strain	Mean 21 Tests	Iowa		Illinois			Indiana	
		Ames	Marshalltown	DeKalb	Pontiac	Urbana	Bluffton	Greenfield
				SEED SIZE (g/100)				
BSR 201	14.4	15.8		15.9	15.1	15.0	12.1	15.2
Century	17.3	17.0		19.8	17.2	17.1	13.9	20.9
Corsoy 79 (II)	14.3	14.2		16.0	13.1	14.3	15.4	16.0
Gnome	14.5	14.6		17.0	17.5	13.8	12.9	14.9
Hardin (I)	13.9	14.1		15.4	11.8	14.3	13.1	15.0
Pella (III)	18.0	17.6		22.5	20.5	17.5	16.2	20.5
Wells II	15.2	15.2		16.5	14.5	15.5	13.4	16.7
Wells II BC_6	16.0	16.3		15.8	16.0	16.7	14.8	19.9
A79-133019	14.5	15.2		17.5	13.1	14.1	12.1	16.7
A80-147002	14.2	14.9		15.9	14.0	13.8	12.2	16.3
A80-149020	15.7	15.9		16.7	14.7	15.3	14.0	19.2
A80-244003	15.2	15.8		17.1	15.3	14.4	12.5	17.6
A80-244036	18.9	19.7		21.7	20.8	17.5	17.5	20.0
A81-153003	16.3	15.9		17.0	14.1	16.8	16.0	19.1
A81-155001	16.0	15.7		17.9	14.8	16.9	14.4	20.2
A81-155014	18.6	18.5		20.7	19.5	19.5	17.5	20.8
A81-156027	16.5	17.0		18.8	15.5	17.4	15.1	19.5
A81-157001	15.5	16.4		17.5	13.3	16.1	13.2	18.6
A81-157005	15.7	16.6		16.9	13.9	14.9	14.8	18.1
A81-157007	15.8	16.5		17.8	13.9	15.0	15.3	18.2
A81-257031	17.0	16.6		20.1	17.9	18.0	15.6	17.9
C1603	16.7	17.3		18.8	16.5	16.8	16.4	17.1
HC78-523	13.4	13.9		14.6	15.1	13.2	13.1	13.8
HW8008	16.7	17.3		19.7	15.3	17.0	14.8	16.3
HW8039	16.0	15.4		19.2	16.4	16.0	15.1	17.8
HW8185	17.1	15.8		19.7	17.9	17.5	18.0	19.1
L76-129B	15.0	14.8		16.5	16.2	15.1	14.4	17.2
L76-141B	15.8	14.7		17.9	15.4	15.3	15.8	17.2
L78-1491	13.8	13.0		14.9	16.3	13.5	13.4	16.6
LN78-1136	16.2	16.6		18.3	14.9	16.5	15.2	17.4
LN80-9359	14.0	14.2		16.5	13.5	13.9	11.3	15.8
LN80-9419	14.5	14.5		16.0	11.4	15.0	14.3	17.3

UNIFORM TEST II, 1983

Ind.	Michigan		Minnesota		Neb.	N.J.	Ohio
Lafayette	Chesaning	Ida	Lamberton	Waseca	Mead	Adelphia	Hoytville
			SEED SIZE (g/100)				
14.4	15.0	15.3	11.1	14.3	16.0	16.0	12.8
18.7	17.8	17.4	15.0	16.9	18.1	20.0	15.1
14.3	14.4	14.0	11.3	14.3	16.0	17.0	12.4
16.5	16.9	13.1	11.8	12.2	13.8	18.0	12.8
13.8	15.0	14.0	11.7	14.8	15.5	16.0	12.6
19.9	18.4	17.6	14.4	15.8	17.6	21.0	16.3
17.6	15.0	14.6	12.3	15.6	16.3	17.0	13.9
17.9	15.4	14.1	13.5	15.9	18.3	18.0	13.5
14.0	16.6	16.4	11.1	14.3	15.2	18.0	12.8
15.3	14.3	12.8	12.0	13.6	16.3	16.0	12.2
15.8	15.4	15.0	11.6	16.5	18.3	18.0	13.1
14.6	15.8	14.9	12.7	14.8	16.4	18.0	13.5
20.0	19.9	19.1	16.9	19.0	19.4	22.0	15.8
16.1	17.4	16.2	13.6	16.9	18.3	19.0	13.8
14.5	15.6	15.8	13.4	17.0	18.4	19.0	13.8
19.3	19.2	17.4	15.7	18.7	20.9	22.0	16.7
16.5	17.4	15.5	13.4	16.0	18.3	20.0	14.5
15.4	16.3	14.7	13.0	15.2	18.6	18.0	13.6
16.0	16.2	15.4	12.1	14.9	18.2	19.0	14.0
16.3	15.9	15.0	13.0	15.1	18.2	18.0	12.9
17.7	17.7	17.8	13.3	15.7	18.3	20.0	15.1
19.1	16.3	16.1	14.2	17.2	18.9	19.0	14.3
14.5	14.4	12.7	11.5	12.1	14.9	16.0	11.0
18.3	16.6	16.8	14.2	18.0	19.0	18.0	13.9
15.6	17.8	16.3	12.3	14.8	16.9	19.0	13.6
17.5	17.6	16.0	14.2	16.5	18.7	19.0	15.7
17.1	16.6	14.5	11.7	14.1	15.1	16.0	13.3
17.1	16.1	15.6	12.7	17.2	17.4	19.0	12.8
15.6	15.1	13.5	11.3	12.4	13.9	16.0	11.7
18.0	16.8	15.7	13.0	16.3	18.4	20.0	14.1
13.9	14.9	14.5	11.6	13.5	14.5	17.0	11.3
13.5	16.2	14.6	11.9	15.0	16.5	17.0	12.4

UNIFORM TEST II, 1983

Strain	Ohio	Ont.		Penn.	S.D.		Wis.
	Wooster	Harrow	Ridgetown	State College	Brookings	Center-ville	Arlington
				SEED SIZE (g/100)			
BSR 201	11.8	14.7	13.2	15.1	14.8	13.1	15.0
Century	14.6	18.7	16.4	19.1	16.7	13.8	18.4
Corsoy 79 (II)	11.6	15.0	14.4	15.3	14.6	11.7	15.6
Gnome	12.2	15.8	13.5	15.6	13.4	13.2	14.7
Hardin (I)	11.4	14.0	13.2	14.3	14.0	12.6	14.9
Pella (III)	15.0	20.7	15.8	19.7	14.9	16.1	19.7
Wells II	11.9	15.7	13.2	15.2	17.1	13.4	18.0
Wells II BC_6	13.1	15.8	14.5	16.1	15.9	14.2	20.2
A79-133019	12.5	16.2	16.1	17.0	15.6	11.5	17.8
A80-147002	11.7	14.0	11.8	15.7	15.0	13.6	16.1
A80-149020	12.9	15.0	14.8	17.5	17.7	13.4	18.1
A80-244003	12.2	16.6	13.2	14.7	16.3	13.5	18.4
A80-244036	14.3	20.6	17.8	20.8	19.3	16.4	19.3
A81-153003	14.0	16.6	16.3	16.5	16.4	13.4	19.5
A81-155001	13.1	16.7	15.9	17.6	15.5	12.7	16.8
A81-155014	15.3	18.1	17.4	19.7	18.3	16.5	19.0
A81-156027	13.0	17.0	15.3	18.7	16.0	13.9	18.1
A81-157001	12.7	14.7	14.2	16.4	15.4	14.5	17.2
A81-157005	12.8	15.8	15.4	16.3	16.3	13.7	19.1
A81-157007	13.1	16.2	15.9	16.6	16.7	12.8	18.4
A81-257031	14.6	18.6	16.6	18.4	16.2	13.7	18.1
C1603	14.4	16.5	14.9	15.8	17.7	14.0	19.3
HC78-523	11.1	13.7	12.0	13.7	12.4	14.3	13.0
HW8008	13.7	17.0	16.0	17.8	16.8	13.9	20.2
HW8039	13.9	17.9	15.6	18.1	14.1	14.0	17.0
HW8185	14.4	17.8	16.2	18.7	16.2	14.9	18.0
L76-129B	12.2	16.1	14.7	16.5	12.1	13.5	16.9
L76-141B	13.4	15.8	15.5	16.5	16.2	13.7	17.2
L78-1491	12.7	14.7	12.5	15.5	12.0	10.6	14.7
LN78-1136	13.1	17.5	15.1	15.9	15.3	13.5	17.8
LN80-9359	11.4	15.2	13.1	15.5	13.3	11.8	16.3
LN80-9419	12.0	16.1	14.0	16.2	14.9	11.0	14.7

UNIFORM TEST II, 1983

Strain	Mean 5 Tests	Iowa Ames	Ill. Urbana	Ind. Lafayette	Neb. Mead	Ohio Hoytville
			Protein (%)			
BSR 201	40.4	41.7	39.5	40.0	40.5	40.3
Century	40.5	41.6	40.3	40.5	39.8	40.1
Corsoy 79 (II)	39.8	40.3	38.2	37.3	38.7	39.3
Gnome	40.7	41.2	41.3	39.9	41.6	39.7
Hardin (I)	38.2	39.1	37.2	39.3	37.7	37.6
Pella (III)	38.8	38.9	37.6	39.6	39.0	38.9
Wells II	40.5	40.8	40.1	40.7	40.8	40.3
Wells BC_6	40.9	42.1	40.7	40.3	40.3	41.3
A79-133019	37.2	37.5	37.7	35.9	36.7	38.2
A80-147002	39.2	40.5	38.5	38.0	39.1	39.8
A80-149020	38.7	38.2	37.8	39.6	38.5	39.3
A80-244003	38.2	39.2	36.6	38.3	38.3	38.8
A80-244036	37.3	39.3	36.4	35.8	37.9	37.2
A81-153003	39.4	39.6	39.0	39.5	39.0	39.7
A81-155001	38.8	39.4	37.7	38.9	38.9	38.8
A81-155014	37.8	38.2	37.6	37.5	38.1	37.7
A81-156027	37.9	38.7	37.1	38.0	37.3	38.6
A81-157001	39.1	38.9	39.6	40.3	38.2	38.7
A81-157005	38.1	38.5	36.5	38.8	37.6	38.9
A81-157007	37.6	38.1	37.9	37.3	37.7	36.8
A81-257031	40.4	42.3	41.6	38.2	40.6	39.4
C1603	40.2	41.0	40.2	40.9	39.4	39.5
HC78-523	36.1	42.0	39.6	39.7	41.1	38.0
HW8008	38.1	38.6	36.8	38.0	38.0	38.9
HW8039	40.1	41.1	39.5	39.6	40.5	39.6
HW8185	41.7	41.8	42.0	41.9	41.8	40.8
L76-129B	39.0	39.1	38.1	39.8	40.3	37.9
L76-141B	36.2	37.0	36.4	36.5	36.2	34.9
L78-1491	41.6	42.1	41.5	42.1	41.5	40.6
LN78-1136	38.4	38.8	38.5	37.6	38.8	38.1
LN80-9359	38.3	39.6	38.6	36.9	39.0	37.6
LN80-9419	38.1	38.5	37.2	37.6	38.1	38.9

UNIFORM TEST II, 1983

Strain	Mean 5 Tests	Iowa Ames	Ill. Urbana	Ind. Lafayette	Neb. Mead	Ohio Hoytville
			OIL (%)			
BSR 201	22.3	21.8	23.1	22.3	22.6	21.8
Century	22.5	22.2	22.0	22.9	23.2	22.0
Corsoy 79 (II)	23.1	22.4	23.2	23.6	23.1	23.1
Gnome	22.3	22.0	22.3	23.2	22.0	22.2
Hardin (I)	23.5	23.5	23.8	22.8	23.9	23.6
Pella (III)	23.2	22.8	23.5	23.3	23.2	23.4
Wells II	22.5	21.9	22.2	23.0	23.2	22.2
Wells II BC_6	22.5	21.7	22.4	23.0	23.1	22.3
A79-133019	23.7	23.9	23.9	24.3	23.7	22.9
A80-147002	22.7	22.5	22.7	23.7	22.9	21.8
A80-149020	22.7	22.8	22.6	22.9	23.1	22.0
A80-244003	23.3	23.0	24.2	23.3	23.4	22.6
A80-244036	23.4	22.4	23.0	24.5	23.8	23.4
A81-153003	23.2	22.9	23.1	23.5	23.5	23.0
A81-155001	23.2	23.0	23.9	23.4	23.0	22.8
A81-155014	23.9	23.9	24.0	24.4	24.3	22.7
A81-156027	23.8	23.4	23.9	24.3	24.0	23.4
A81-157001	23.0	22.7	22.9	23.0	23.6	22.7
A81-157005	23.3	23.5	22.9	23.4	24.4	22.4
A81-157007	23.5	23.0	23.5	24.0	23.6	23.3
A81-257031	22.8	21.9	22.3	23.7	23.1	23.2
C1603	23.4	23.1	23.3	23.3	23.9	22.8
HC78-523	23.0	21.6	23.2	23.3	23.0	23.7
HW8008	23.9	23.2	25.3	23.5	24.3	23.1
HW8039	22.4	21.5	22.0	23.3	22.9	22.2
HW8185	22.1	21.8	21.9	22.4	22.3	22.3
L76-129B	22.1	21.5	22.4	22.0	22.0	22.4
L76-141B	23.6	23.8	23.1	23.7	23.9	23.5
L78-1491	22.0	21.2	21.8	21.5	21.4	21.7
LN78-1136	23.4	22.7	23.8	23.3	23.7	23.5
LN80-9359	22.6	21.9	22.1	23.8	22.4	22.9
LN80-9419	24.1	23.2	25.1	24.4	24.3	23.7

PRELIMINARY TEST IIA, 1983

Strain		Parentage	Generation Composited
1.	BSR 201	Pride B-216 x AX901-40-2	F_4
2.	Century	Calland x Bonus	F_6
3.	Corsoy 79 (II)	$Corsoy_3^6$ x Lee 68	BC_5 F_3
4.	Hardin (I)	Corsoy x Cutler 71	F_3
5.	Pella (III)	L66L-137 x Calland	F_4
6.	A81-161035	Pride B-216 x A77-211021	F_4
7.	A82-168030	Asgrow A3585 x A76-103002	F_4
8.	A82-263007	A76-202015 x Century	F_5
9.	A82-263010	A77-211021 x Pella	F_4
10.	A82-263027	Pride B-216 x A77-211021	F_4
11.	A82-263034	Pride B-216 x A77-211021	F_4
12.	A82-264001	A77-211021 x Pella	F_4
13.	A82-264003	NAPB HP 20-20 x A77-314013	F_4
14.	A82-264013	Schechinger S48 x Century	F_4
15.	A82-264014	A77-211021 x NK S1492	F_4
16.	A82-264016	Asgrow A3585 x Tri-Valley Charger	F_4
17.	A82-264021	Pride B-216 x Pella	F_4
18.	A82-266026	AP6M 2YT (F_4) C_2	F_4
19.	A82-267015	AP6M TW 2YT (F_4) C_2	F_4
20.	A82-268013	Pella x A78-326017	F_4
21.	C-PRX67WTP	$Wells\ II_4$ x (PI 54615-1 x PI 86972-1)	FC_3 F_3
22.	L80-2562	Williams x L70-2283	F_9
23.	L80-4120	$Beeson_4$ x (Chippewa x Custer)	F_4
24.	L80-4122	$Beeson_4$ x (Chippewa x Custer)	F_4
25.	L80-4131	Beeson x (Chippewa x Custer)	F_4
26.	LN80-3466	A76-201009 x HW6942-15-6	F_4
27.	LN80-5040	Schechinger S48 x HW6942-15-6	F_4
28.	LN80-5043	Schechinger S48 x HW6942-15-6	F_4
29.	LN80-5689	Pfizers CX290 x HW6942-15-6	F_4
30.	LN80-6084	A2 x HW6942-15-6	F_4
31.	LN80-6176	A2 x A75-305022	F_4
32.	LN80-7532	Century x A76-304020	F_4
33.	LN80-7579	Century x A76-304020	F_4
34.	LN80-10398	Century x Land O'Lakes Max	F_4
35.	LN80-11550	Century x A75-103019	F_4

PRELIMINARY TEST IIA, 1983

Descriptive and Other Data

Strain	Descriptive Code					Chlorosis Score	Shattering Score	
						Ames	Manhattan	Urbana
BSR 201	W	GBr	DY	Bf	I	4.2	2	1
Century	P	TBr	SY	Bl	I	2.0	2	3
Corsoy 79 (II)	P	GBr	DY	Y	I	4.2	2	1
Hardin (I)	P	GBr	DY	I	I	3.3	1	1
Pella (III)	P	TT	SY	Bl	I	3.2	1	1
A82-161035	W	GBr	DY	Bf	I	3.2	3	3
A82-168030	P+W	TBr	SY	Bl	I	3.0	2	4
A82-263007	P	TBr	DY	Bl	I	2.2	1	2
A82-263010	P+W	GBr	DY	Ib+Bf	I	3.7	1	1
A82-263027	W	GBr	DY	Y	I	3.7	2	4
A82-263034	W	GBr	DY	Bf	I	3.8	2	4
A82-264001	W	TBr	DY	Bl	I	2.5	1	1
A82-264003	P+W	GBr	DY	Ib+Gr	I	2.8	1	2
A82-264013	P	TBr	DY	Bl	I	2.0	1	2
A82-264014	W	GBr	DY	Bf	I	2.8	1	2
A82-264016	P	TBr	SY	Bl	I	3.3	2	5
A82-264021	WG+	TBr	DY	Y	I	5.0	1	1
A82-266026	P	TBr	DY	Br	I	2.7	2	3
A82-267015	W	GBr	DY	Y	I	2.0	1	2
A82-268013	P	TBr	DY	Bl	I	1.3	1	3
C-PRX67WTP	W	GT	DY	Bf	I	1.7	1	2
L80-2562	W	GBr	IY	Bf	I	3.3	2	2
L80-4120	P	GBr	SY	Ib	I	2.7	1	3
L80-4122	P	GBr	SY	Ib	I	2.3	1	4
L80-4131	P	GBr	DY	Ib	I	2.3	1	5
LN80-3466	P	TBr	DY	Br	I	1.7	2	1
LN80-5040	P	GBr	DY	Ib+Gr	I	1.8	2	1
LN80-5043	P	TB	DY	Bl+Gr	I	2.3	2	2
LN80-5689	P	TBr	DY	Bl+Br	I	1.8	1	2
LN80-6084	P	GBr	DY	Ib+Gr	I	1.5	2	2
LN80-6176	P	GBr	SY	Y	I	1.2	1	2
LN80-7532	P	TBr	DY	Bl	I	3.5	1	4
LN80-7579	P	TBr	DY	Bl	I	2.2	1	3
LN80-10398	P	TBr	DY	Bl	I	2.5	1	3
LN80-11550	P	TBr	SY	Bl	I	2.5	1	2

PRELIMINARY TEST IIA, 1983

Disease Data

BSR			PR_1
Ames		Lafayette	Lafayette
Plant	Stem	Stem	a
n %	n %	n %	----Reaction----
100	38.2	0	R
100	59.2	0	R
100	77.4	0	R
100	85.9	0	R
100	76.3	40	R
100	54.9	20	R
100	59.4	0	S
100	54.9	40	R
100	76.7	20	R
100	58.8	20	R
100	76.1	40	S
90	64.1	20	R
90	56.5	40	S
100	45.0	20	S
100	62.2	100	R
100	68.4	0	S
90	67.3	40	R
100	55.7	0	S
90	70.1	0	H
-	-	0	R
100	60.1	20	R
100	61.2	20	S
-	-	20	R
-	-	20	R
-	-	60	R
100	33.3	20	R
-	-	0	R
100	52.2	40	R
80	40.7	0	R
100	46.4	0	R
100	65.9	0	R
100	55.5	20	R
100	45.0	0	R
100	53.2	0	R
100	65.9	0	R

PRELIMINARY TEST IIA, 1983

Disease Data

	PS	PSB		Germ	Hard Seeds	Green Seeds
			Lafayette			
	a	n	a			
Strain	%	%	Score	%	%	%
BSR 201	2	0	2E	74	24	12
Century	7	1	4E	78	14	8
Corsoy 79 (II)	14	1	5E	71	14	1
Hardin (I)	15	0	4E	77	17	13
Pella (III)	5	8	5M	82	5	7
A82-161035	0	0	2M	40	54	18
A82-168030	1	0	2M	75	8	14
A82-263007	3	0	4M	55	32	31
A82-263010	2	0	2M	62	29	5
A82-263027	0	0	5E	32	52	21
A82-263034	0	0	3E	42	42	15
A82-264001	0	0	3M	76	11	8
A82-264003	0	1	4M	70	22	9
A82-264013	2	1	5E	64	20	9
A82-264014	16	0	4M	64	29	6
A82-264016	0	1	4E	42	50	6
A82-264021	0	0	4E	58	31	4
A82-266026	0	0	4E	80	15	6
A82-267015	0	0	2E	60	35	12
A82-268013	0	0	1	85	10	13
C-PRX67WTP	6	2	2M	83	1	5
L80-2562	2	0	2	88	3	5
L80-4120	11	0	3E	76	5	7
L80-4122	3	0	1	81	1	9
L80-4131	-	0	1	78	6	19
LN80-3466	1	1	3E	58	34	11
LN80-5040	4	1	5E	81	0	11
LN80-5043	0	0	5E	84	0	21
LN80-5689	7	0	4E	76	12	9
LN80-6084	3	0	4S	44	40	9
LN80-6176	2	0	5S	31	54	4
LN80-7532	9	0	5E	62	22	7
LN80-7579	0	0	4M	35	52	8
LN80-10398	0	0	4M	48	37	7
LN80-11550	0	0	3M	67	25	7

PRELIMINARY TEST IIA, 1983

Regional Summary

Strain	Yield	Rank	Matu-rity	Lodg-ing	Plant Height	Seed Quality	Seed Size	Composition Protein	Composition Oil
No. of Tests	10	10	9	10	10	8	9	5	5
	bu/a	No.	Date	Score	In.	Score	g/100	%	%
BSR 201	47.6	21	+0.8	1.8	33	1.9	15.0	40.6	22.1
Century	49.2	12	+2.7	1.5	34	1.9	17.5	41.3	21.9
Corsoy 79 (II)	50.3	3	9-18.6*	2.3	39	2.0	15.1	39.0	23.0
Hardin (I)	44.2	31	-2.4	2.0	34	2.1	14.5	39.2	23.2
Pella (III)	47.4	24	+6.6	1.6	38	1.7	19.3	38.8	23.2
A82-161035	49.8	7	-0.1	1.9	37	1.9	14.2	38.1	23.1
A82-168030	46.3	26	+0.1	1.7	35	1.9	15.5	39.0	22.5
A82-263007	46.9	9	+3.9	1.7	35	1.9	16.2	38.6	23.4
A82-263010	50.0	5	+3.7	1.5	35	1.9	18.7	39.7	22.2
A82-263027	46.0	28	-0.4	1.4	36	2.4	17.5	40.6	22.6
A82-263034	50.5	2	+1.6	2.1	33	2.4	17.4	40.1	22.9
A82-264001	48.3	17	+5.7	1.6	42	1.9	17.2	40.0	22.2
A82-264003	48.4	16	+3.1	1.6	33	2.0	17.0	39.7	23.3
A82-264013	47.6	21	+5.0	1.7	35	2.1	16.9	41.3	22.8
A82-264014	45.9	29	+0.3	1.7	37	2.1	17.1	38.8	23.2
A82-264016	50.2	4	+2.4	1.7	35	1.8	15.7	38.8	23.7
A82-264021	48.5	15	+4.0	1.9	36	2.0	15.9	39.0	23.5
A82-266026	49.3	11	+0.9	1.8	34	2.1	14.9	40.3	22.2
A82-267015	51.2	1	+1.0	2.3	37	2.2	15.5	39.5	23.2
A82-268013	49.0	14	+6.4	2.2	37	2.2	16.4	41.7	21.8
CPRX67WTP	45.2	30	+0.4	1.5	35	2.3	17.8	41.9	22.0
L80-2562	43.7	32	+1.8	1.5	34	2.0	16.4	38.4	23.8
L80-4120	42.8	34	+0.9	1.6	33	2.2	18.0	39.8	22.7
L80-4122	43.5	33	-1.2	1.6	33	2.3	17.9	37.6	22.4
L80-4131	40.3	35	-0.1	1.4	33	2.4	18.0	39.0	19.7
LN80-3466	47.1	25	+0.3	1.8	36	2.4	16.7	39.4	22.9
LN80-5040	48.1	18	+0.7	1.4	34	2.4	18.3	39.7	22.5
LN80-5043	47.6	21	+1.0	1.6	33	2.1	18.5	39.7	23.1
LN80-5689	47.8	19	+0.7	1.4	33	2.1	19.1	39.1	23.0
LN80-6084	46.2	27	0.0	1.4	31	2.4	16.6	38.8	22.7
LN80-6176	49.1	13	+4.3	1.5	35	2.1	15.8	37.4	23.5
LN80-7532	49.4	10	+1.0	1.6	33	1.9	15.9	40.1	22.5
LN80-7579	47.7	20	+0.8	1.4	33	1.8	17.3	41.7	21.6
LN80-10398	49.8	7	+0.7	1.4	33	1.8	17.2	40.7	22.1
LN80-11550	49.9	6	+1.0	1.5	35	2.0	17.3	39.6	23.3

*120 days after planting

Only two strains in this test yielded more than Corsoy 79, the highest yielding check variety. The strains L80-2562 through L80-4131 are all resistant to race 3 of the SCN. The strain CPRX67WTP has the genes $\underline{Rps^c}$, and Rps_3 for phytophthora resistance.

PRELIMINARY TEST IIA, 1983

Strain	Mean 10 Tests	Iowa		Ill.	Ind.
		Ames	Marshalltown	Urbana	Lafayette
		YIELD (bu/a)			
BSR 201	47.6	49.8	44.1	56.8	43.9
Century	49.2	49.7	53.8	59.9	38.6
Corsoy 79 (II)	50.3	46.4	47.4	59.4	46.2
Hardin (I)	44.2	43.3	48.9	44.5	40.6
Pella (III)	47.4	45.6	54.0	59.7	38.8
A82-161035	49.8	53.3	64.3	58.2	45.8
A82-168030	46.3	48.3	49.8	52.5	40.1
A82-263007	49.6	50.7	51.7	67.8	39.6
A82-263010	50.0	52.0	57.4	64.6	37.4
A82-263027	46.0	45.3	58.2	60.1	29.3
A82-263034	50.5	53.4	55.6	54.5	37.6
A82-264001	48.3	44.5	52.4	68.8	40.1
A82-264003	48.4	49.8	48.3	55.8	42.3
A82-264013	47.6	48.5	52.1	46.8	39.7
A82-264014	45.9	50.5	54.7	58.6	30.9
A82-264016	50.2	48.1	54.1	62.4	41.7
A82-264021	48.5	50.6	55.4	61.4	40.5
A82-266026	49.3	46.7	53.4	53.2	42.9
A82-267015	51.2	47.2	57.0	60.6	39.6
A82-268013	49.0	46.3	55.2	61.5	45.1
CPRX67WTP	45.2	40.0	47.4	59.5	37.2
L80-2562	43.7	41.7	46.6	45.1	41.8
L80-4120	42.8	41.4	44.2	53.9	33.3
L80-4122	43.5	39.0	46.0	51.3	30.4
L80-4131	40.3	43.2	47.2	40.8	28.1
LN80-3466	47.1	43.8	55.2	56.2	39.0
LN80-5040	48.1	44.3	55.2	59.2	38.0
LN80-5043	47.6	49.7	55.2	57.2	37.1
LN80-5689	47.8	44.7	56.6	62.3	37.4
LN80-6084	46.2	48.1	51.2	62.6	35.5
LN80-6176	49.1	45.8	54.9	64.4	35.9
LN80-7532	49.4	47.2	55.1	62.8	44.0
LN80-7579	47.7	47.6	50.4	56.8	39.9
LN80-10398	49.8	51.1	50.9	59.5	46.2
LN80-11550	49.9	48.1	56.9	61.4	43.3
C.V. (%)		6.5	4.7	9.9	16.8
L.S.D. (5%)		6.2	5.0	11.6	13.1
Row sp. (in.)		27	27	30	24
Rows/plot		4	4	4	4
Reps		2	2	2	2

PRELIMINARY TEST IIA, 1983

MI	Neb.	N.J.	Ohio	S.D.	Wis.
Ida	Mead	Adelphia	Hoytville	Centerville	Arlington
			YIELD (bu/a)		
48.2	51.9	45.0	37.4	51.6	48.2
48.1	53.8	48.5	42.3	54.4	42.5
50.9	56.5	52.6	42.4	57.2	44.1
48.3	50.0	40.1	36.5	42.5	47.7
51.4	43.6	39.1	43.5	52.4	46.2
39.7	53.1	42.7	37.8	52.6	50.5
43.8	52.3	46.7	35.3	52.8	41.8
44.9	54.8	50.9	36.4	51.3	47.6
52.6	55.6	47.1	29.8	54.0	49.2
51.9	53.4	34.1	35.5	49.3	42.9
52.3	61.0	46.9	39.1	57.6	47.1
54.6	49.9	42.6	40.9	44.8	44.4
52.1	55.0	43.7	40.8	50.6	45.8
49.7	50.4	47.6	42.1	55.3	43.3
46.6	54.4	42.1	27.2	50.1	43.6
54.4	54.8	48.0	40.4	51.8	46.3
43.1	50.6	47.0	40.5	52.0	43.5
53.8	53.5	53.6	38.2	52.0	46.0
53.2	57.1	49.9	40.8	61.4	45.3
46.1	51.6	49.6	40.1	51.4	43.1
43.6	51.3	49.9	38.6	50.0	34.2
42.0	51.4	41.7	38.7	50.6	37.8
44.7	47.8	46.9	24.6	47.7	43.5
43.0	47.6	45.6	36.1	52.7	43.2
48.7	46.6	41.1	20.2	46.3	41.2
47.3	54.2	44.0	34.8	52.5	44.0
53.0	53.3	41.3	37.6	51.8	47.2
50.8	54.5	41.1	33.7	49.0	47.4
47.7	50.8	44.6	37.5	53.7	43.1
49.1	46.1	44.0	35.3	43.5	46.1
50.9	55.9	45.7	43.8	51.6	42.2
50.3	52.3	50.7	35.7	47.9	46.7
51.2	52.9	46.1	35.9	50.1	46.2
54.0	45.3	52.8	43.8	48.4	45.8
51.3	52.5	51.7	41.1	47.8	44.6
10.2	5.2	19.7	11.5	8.8	6.0
10.2	5.5	18.5	8.8	N.S.	5.5
20	30	30	15	30	30
4	4	4	5	4	4
2	2	2	2	2	2

PRELIMINARY TEST IIA, 1983

Strain		Iowa		Ill.	Ind.
		Ames	Marshalltown	Urbana	Lafayette
		YIELD RANK			
BSR 201	21	8	35	23	6
Century	12	10	18	14	22
Corsoy 79 (II)	3	21	29	18	1
Hardin (I)	31	30	27	34	12
Pella (III)	24	24	17	15	21
A82-161035	7	2	1	21	3
A82-168030	26	13	26	30	14
A82-263007	9	5	22	2	18
A82-263010	5	3	3	3	25
A82-263027	28	25	2	13	34
A82-263034	2	1	7	27	24
A82-264001	17	27	20	1	14
A82-264003	16	8	28	26	9
A82-264013	21	12	21	32	17
A82-264014	29	7	15	20	32
A82-264016	4	14	16	7	11
A82-264021	15	6	8	10	13
A82-266026	11	20	19	29	8
A82-267015	1	18	4	12	18
A82-268013	14	22	9	9	4
CPRX67WTP	30	34	29	17	27
L80-2562	32	32	32	33	10
L80-4120	34	33	34	28	31
L80-4122	33	35	33	31	33
L80-4131	35	31	31	35	35
LN80-3466	25	29	9	25	20
LN80-5040	18	28	9	19	23
LN80-5043	21	10	9	22	28
LN80-5689	19	26	6	8	25
LN80-6084	27	14	23	6	30
LN80-6176	13	23	14	4	29
LN80-7523	10	18	13	5	5
LN80-7579	20	17	25	23	16
LN80-10398	7	4	24	16	1
LN80-11550	6	14	5	10	7

PRELIMINARY TEST IIA, 1983

MI	Neb.	N.J.	Ohio	S.D.	Wis.
Ida	Mead	Adelphia	Hoytville	Centerville	Arlington
			YIELD RANK		
22	21	21	21	17	8
23	12	10	5	5	30
14	3	3	4	3	20
21	28	33	22	35	3
11	35	34	3	12	11
35	16	26	18	10	1
30	19	17	28	8	32
28	7	5	23	20	4
7	5	13	32	6	2
10	14	35	27	26	29
8	1	15	14	2	8
1	29	27	8	33	19
9	6	25	9	21	15
18	27	12	6	4	25
26	10	28	33	23	22
2	7	11	12	15	10
32	26	14	11	13	23
4	13	1	17	13	14
5	2	7	9	1	17
27	22	9	13	19	27
31	24	7	16	25	35
34	23	29	15	21	34
29	30	15	34	31	23
33	31	20	24	9	26
20	33	31	35	32	33
25	11	23	30	11	21
6	15	30	19	15	7
16	9	31	31	27	6
24	25	22	20	7	27
19	33	23	28	34	13
14	4	19	1	17	31
17	19	6	26	29	4
13	17	18	25	23	11
3	34	2	1	28	15
12	18	4	7	30	18

PRELIMINARY TEST IIA, 1983

Strain	Mean 9 Tests	Iowa Ames	Iowa Marshalltown	Ill. Urbana	Ind. Lafayette
		MATURITY (date)			
BSR 201	+0.8	+5		+1	-3
Century	+2.7	+8		+5	-1
Corsoy 79 (II)	9-18.6	9-14		9-14	9-11
Hardin (I)	-2.4	-4		+3	-1
Pella (III)	+6.6	+12		+7	+4
A82-161035	-0.1	+4		+2	-3
A82-168030	+0.1	+2		+1	-1
A82-263007	+3.9	+10		+5	0
A82-263010	+3.7	+9		+9	-1
A82-263027	-0.4	+6		+1	-4
A82-263034	+1.6	+7		+3	-2
A82-264001	+5.7	+14		+9	+4
A82-264003	+3.1	+8		+3	0
A82-264013	+5.0	+13		+4	0
A82-264014	+0.3	+8		+2	-5
A82-264016	+2.4	+10		+3	-2
A82-264021	+4.0	+11		+6	-2
A82-266026	+0.9	+4		+5	-4
A82-267015	+1.0	+3		-1	+2
A82-268013	+6.4	+12		+4	+3
CPRX67WTP	+0.4	+1		+3	-2
L80-2562	+1.8	+4		+1	+1
L80-4120	+0.9	0		+2	-3
L80-4122	-1.2	0		+1	-5
L80-4131	-0.1	+2		+2	-4
LN80-3466	+0.3	+4		-1	-3
LN80-5040	+0.7	+5		+1	-3
LN80-5043	+1.0	+4		+1	-3
LN80-5689	+0.7	+4		+2	-3
LN80-6084	0.0	+2		+1	-3
LN80-6176	+4.3	+10		+5	-2
LN80-7532	+1.0	+3		0	-2
LN80-7579	+0.8	+2		-2	-4
LN80-10398	+0.7	+6		+1	-2
LN80-11550	+1.0	+5		+2	-2
Date Planted	5-21	5-13	5-16	5-10	5-11
Days to Mature	120	124		127	123

PRELIMINARY TEST IIA, 1983

MI	Neb.	N.J.	Ohio	S.D.	Wis.
Ida	Mead	Adelphia	Hoytville	Centerville	Arlington
			MATURITY (date)		
-2	+3	+5	+1	0	-3
+2	+4	-2	+4	+5	-1
9-18	9-16	9-24	9-12	9-26	10-2
-2	-1	-6	-2	-7	-2
+5	+11	0	+9	+11	0
-4	+4	-5	+1	+1	-1
0	+2	-2	-1	+2	-2
+3	+4	+2	+8	+4	-1
+2	+5	-1	+4	+7	-1
-1	+2	-9	0	+3	-2
0	+3	-3	+2	+5	-1
+5	+11	+1	+10	+10	0
+1	+5	-2	+4	+8	+2
+4	+10	0	+5	+8	+2
-2	+5	-4	+2	+3	0
+3	+3	-3	+6	+3	-1
+1	+7	0	+6	+6	+1
-3	+3	-1	0	+6	-2
0	+1	-2	+1	+6	-1
+6	+10	+3	+9	+9	+2
-2	+4	-1	+1	0	0
+2	+3	-3	+2	+6	0
-4	+1	-5	+1	+3	-3
0	+2	-4	-2	+2	-5
0	+4	-4	+1	+2	-4
0	+2	-3	+2	+3	-1
+2	+2	-5	+1	+3	0
+3	+3	-4	+2	+4	-1
+1	+2	-3	+1	+3	-1
+1	+2	-5	+1	+1	0
+3	+7	-1	+9	+7	+1
0	+3	-2	+2	+5	0
-2	+1	-4	+1	+2	-1
+1	-1	-2	+3	+1	-1
0	+2	-2	+1	+3	0
5-27	5-24	6-3	5-30	5-26	5-16
114	115	113	105	123	139

PRELIMINARY TEST IIA, 1983

Strain	Mean 10 Tests	Iowa		Ill.	Ind.
		Ames	Marshalltown	Urbana	Lafayette
		LODGING (score)			
BSR 201	1.8	2.8	3.1	1.0	1.0
Century	1.5	1.4	2.3	1.0	1.0
Corsoy 79 (II)	2.3	3.0	4.0	1.5	2.0
Hardin (I)	2.0	2.2	3.7	1.5	2.0
Pella (III)	1.6	1.7	2.5	1.0	1.0
A82-161035	1.9	2.4	3.3	1.5	2.0
A82-168030	1.7	2.0	3.0	1.0	1.0
A82-263007	1.7	2.4	3.7	1.0	1.3
A82-263010	1.5	1.6	2.8	1.0	1.0
A82-263027	1.4	3.1	4.4	1.5	1.5
A82-263034	2.1	1.8	2.5	1.0	1.0
A82-264001	1.6	2.6	3.6	1.5	1.3
A82-264003	1.6	1.8	3.5	1.0	1.0
A82-264013	1.7	2.4	3.0	1.0	1.0
A82-264014	1.7	2.3	2.7	1.5	1.0
A82-264016	1.7	1.8	3.1	1.0	1.0
A82-264021	1.9	2.3	3.1	1.0	1.3
A82-266026	1.8	1.9	3.6	1.0	1.3
A82-267015	2.3	2.8	4.0	2.0	1.3
A82-268013	2.2	2.9	3.8	2.0	1.3
CPRX67WTP	1.5	1.6	2.3	1.0	1.0
L80-2562	1.5	1.4	2.8	1.0	1.0
L80-4120	1.6	1.7	2.7	1.0	1.0
L80-4122	1.6	1.7	2.7	1.0	1.0
L80-4131	1.4	1.7	2.7	1.0	1.0
LN80-3466	1.8	2.2	3.8	1.5	1.0
LN80-5040	1.4	1.5	2.4	1.0	1.0
LN80-5043	1.6	1.9	2.8	1.0	1.0
LN80-5689	1.4	1.4	2.4	1.0	1.0
LN80-6084	1.4	1.7	2.1	1.0	1.0
LN80-6176	1.5	1.5	2.6	1.0	1.0
LN80-7532	1.6	1.9	2.9	1.5	1.0
LN80-7579	1.4	1.5	2.3	1.0	1.0
LN80-10398	1.4	1.5	2.1	1.0	1.0
LN80-11550	1.5	2.2	2.5	1.0	1.0

PRELIMINARY TEST IIA, 1983

MI	Neb.	N.J.	Ohio	S.D.	Wis.
Ida	Mead	Adelphia	Hoytville	Centerville	Arlington
			LODGING (score)		
1.5	1.3	1.0	1.7	1.5	3.0
1.5	1.0	1.0	1.5	1.0	3.0
1.5	1.3	2.5	1.9	1.5	3.3
1.5	1.0	3.0	1.5	1.0	3.0
2.0	1.5	1.0	1.7	1.0	2.8
1.5	1.5	1.0	2.1	1.0	3.0
1.5	1.0	1.0	1.7	1.0	3.3
1.5	1.0	1.0	1.5	1.0	3.0
1.0	1.0	1.0	1.5	1.5	2.8
1.0	1.3	1.0	1.6	1.0	4.3
1.0	1.0	1.0	1.3	1.0	2.5
2.0	1.3	1.5	1.8	2.0	3.0
1.5	1.0	1.0	1.4	1.0	2.8
1.5	1.5	1.0	1.4	1.0	2.8
1.0	1.0	1.0	1.7	1.0	3.3
1.0	1.3	1.0	1.7	2.0	3.0
2.0	1.5	1.5	1.6	1.5	3.0
1.5	1.3	1.0	1.5	1.5	3.0
2.0	1.3	1.5	1.7	2.5	3.5
2.0	1.3	2.0	1.7	1.5	3.5
1.0	1.0	2.0	1.7	1.0	2.5
1.5	1.0	1.0	1.5	1.5	2.5
1.5	1.5	1.0	1.4	1.0	3.3
1.5	1.3	1.0	1.7	1.0	3.0
1.0	1.0	1.0	1.2	1.0	2.8
1.5	1.0	1.5	1.3	1.0	3.3
1.0	1.0	1.0	1.4	1.0	2.8
1.5	1.0	1.0	1.4	1.0	3.0
1.0	1.0	1.0	1.4	1.0	2.8
1.0	1.0	1.0	1.5	1.0	2.8
1.0	1.0	1.0	1.5	1.0	3.0
1.0	1.0	1.0	1.6	1.0	2.8
1.0	1.0	1.0	1.5	1.0	2.5
1.0	1.0	1.0	1.4	1.0	2.8
1.0	1.0	1.0	1.9	1.0	2.8

PRELIMINARY TEST IIA, 1983

Strain	Mean 10 Tests	Iowa		Ill.	Ind.
		Ames	Marshalltown	Urbana	Lafayette
		PLANT HEIGHT (inches)			
BSR 201	33	34	38	28	30
Century	34	36	41	29	29
Corsoy 79 (II)	39	36	46	32	40
Hardin (I)	34	34	36	29	33
Pella (III)	38	39	40	37	33
A82-161035	37	38	41	34	36
A82-168030	35	42	40	26	31
A82-263007	35	41	38	30	30
A82-263010	35	36	38	34	31
A82-263027	36	40	38	34	32
A82-263034	33	34	38	27	30
A82-264001	42	46	42	42	35
A82-264003	33	33	38	25	28
A82-264013	35	38	40	27	30
A82-264014	37	42	42	33	36
A82-264016	35	36	38	29	31
A82-264021	36	40	40	34	33
A82-266026	34	38	40	24	31
A82-267015	37	39	42	33	31
A82-268013	37	41	42	32	33
CPRX67WTP	35	36	40	29	32
L80-2562	34	37	40	26	30
L80-4120	33	38	36	27	27
L80-4122	33	39	36	28	28
L80-4131	33	36	39	26	30
LN80-3466	36	38	38	31	32
LN80-5040	34	34	40	31	27
LN80-5043	33	34	34	30	29
LN80-5689	33	36	36	31	28
LN80-6084	31	36	36	28	28
LN80-6176	35	34	34	32	28
LN80-7532	33	35	36	32	32
LN80-7579	33	34	38	29	28
LN80-10398	33	34	36	31	28
LN80-11550	35	39	34	31	30

PRELIMINARY TEST IIA, 1983

MI	Neb.	N.J.	Ohio	S.D.	Wis.
Ida	Mead	Adelphia	Hoytville	Centerville	Arlington
			PLANT HEIGHT (inches)		
40	34	28	27	33	34
42	31	32	33	34	36
45	34	37	38	38	40
40	30	32	31	33	39
46	36	32	37	38	39
39	37	29	32	39	40
42	33	30	29	38	39
44	34	31	30	35	36
40	35	29	36	37	38
42	37	27	38	34	37
44	32	26	35	32	35
54	42	33	38	42	44
39	36	26	34	33	35
44	34	30	32	37	36
42	36	32	34	36	39
42	37	30	37	38	36
39	37	33	35	34	35
41	32	30	33	34	37
47	34	33	32	42	41
43	37	34	30	37	38
38	34	36	37	34	37
41	34	28	33	34	36
40	33	28	26	33	37
40	31	26	33	34	36
40	35	27	28	35	34
46	34	31	33	37	38
44	33	30	31	35	35
43	31	28	35	33	36
41	30	28	26	34	35
36	28	28	27	30	33
41	36	35	36	35	38
41	29	32	28	32	36
40	34	29	31	34	35
42	30	29	35	30	35
41	33	31	37	36	35

PRELIMINARY TEST IIA, 1983

Strain	Mean 8 Tests	Iowa		Ill.	Ind.
		Ames	Marshalltown	Urbana	Lafayette
		SEED QUALITY (score)			
BSR 201	1.9	1.5		2.0	1.5
Century	1.9	1.9		2.4	1.5
Corsoy 79 (II)	2.0	1.9		2.4	1.5
Hardin (I)	2.1	2.0		2.4	1.5
Pella (III)	1.7	1.6		1.7	1.5
A82-161035	1.9	1.7		2.0	1.5
A82-168030	1.9	1.9		2.0	1.5
A82-263007	1.9	1.5		1.9	2.0
A82-263010	1.9	1.6		2.4	1.5
A82-263027	2.4	2.0		2.5	2.0
A82-263034	2.4	1.4		2.5	2.0
A82-264001	1.9	1.8		1.9	2.0
A82-264003	2.0	2.0		1.7	1.5
A82-263013	2.1	1.6		1.8	1.5
A82-264014	2.1	1.5		2.0	2.0
A82-264016	1.8	1.5		2.0	1.5
A82-264021	2.0	1.6		1.9	1.5
A82-266026	2.1	2.2		2.4	1.5
A82-267015	2.2	2.0		1.9	1.5
A82-268013	2.2	1.6		2.1	3.0
CPRX67WTP	2.3	2.6		3.0	1.5
L80-2562	2.0	1.7		1.7	1.5
L80-4120	2.2	2.3		2.7	2.0
L80-4122	2.3	2.4		2.5	2.0
L80-4131	2.4	2.3		3.1	2.5
LN80-3466	2.4	1.9		2.3	2.5
LN80-5040	2.4	2.8		2.9	2.5
LN80-5043	2.1	2.8		2.9	2.0
LN80-5689	2.1	1.9		2.3	2.0
LN80-6084	2.4	2.1		2.0	3.0
LN80-6176	2.1	1.8		2.0	2.0
LN80-7532	1.9	2.0		2.3	2.5
LN80-7579	1.8	1.8		2.4	2.0
LN80-10398	1.8	1.8		2.3	2.0
LN80-11550	2.0	1.8		2.3	1.5

PRELIMINARY TEST IIA, 1983

MI	Neb.	N.J.	Ohio	S.D.	Wis.
Ida	Mead	Adelphia	Hoytville	Centerville	Arlington
			SEED QUALITY (score)		
	1.3	2.5	1.4	2.0	2.5
	1.3	2.5	1.6	2.0	2.0
	2.0	2.0	1.4	2.0	3.0
	1.8	2.5	1.5	2.0	3.0
	1.0	1.5	1.5	3.0	2.0
	1.5	2.5	1.6	2.0	2.5
	2.3	2.0	1.6	2.0	2.0
	1.8	1.5	2.0	2.0	2.5
	1.3	2.0	1.7	3.0	2.0
	2.0	2.5	1.8	3.0	3.0
	1.8	3.0	2.5	3.0	3.0
	1.0	1.5	1.5	3.0	2.5
	1.5	2.0	1.5	3.0	2.5
	1.0	2.5	1.7	3.0	3.5
	1.3	2.5	1.8	3.0	3.0
	1.3	1.5	1.4	3.0	2.5
	1.3	1.5	1.4	3.0	3.5
	1.0	2.5	1.5	3.0	3.0
	2.5	2.5	1.5	3.0	2.5
	1.3	2.0	1.2	3.0	3.0
	2.3	2.5	2.0	1.0	3.5
	1.5	2.5	1.7	3.0	2.5
	2.0	2.0	1.7	2.0	3.0
	1.5	2.0	2.0	3.0	3.0
	1.5	2.0	2.3	3.0	2.5
	1.8	2.5	1.8	3.0	3.0
	1.8	2.5	1.7	3.0	2.0
	1.8	2.0	2.0	2.0	3.0
	1.5	2.0	1.7	2.0	3.0
	2.0	1.5	1.8	3.0	3.5
	1.5	1.5	1.6	3.0	3.5
	1.0	2.0	1.5	2.0	2.0
	1.0	2.0	1.4	2.0	2.0
	1.0	2.0	1.4	2.0	2.0
	1.3	2.5	1.4	2.0	3.0

PRELIMINARY TEST IIA, 1983

Strain	Mean 9 Tests	Iowa		Ill.	Ind.
		Ames	Marshalltown	Urbana	Lafayette
		SEED SIZE (g/100)			
BSR 201	15.0	15.0		16.2	16.9
Century	17.5	17.6		19.7	18.4
Corsoy 79 (II)	15.1	14.4		15.8	15.8
Hardin (I)	14.5	13.0		15.8	14.7
Pella (III)	19.3	17.5		19.7	19.6
A82-161035	14.2	14.2		16.6	15.8
A82-168030	15.5	15.2		17.4	16.0
A82-263007	16.2	15.9		19.0	16.5
A82-263010	18.7	18.8		20.7	19.7
A82-263027	17.5	18.2		20.4	17.9
A82-263034	17.4	17.3		19.5	18.6
A82-264001	17.2	16.8		19.0	18.5
A82-264003	17.0	16.8		18.9	17.9
A82-264013	16.9	16.8		18.0	18.3
A82-264014	17.1	17.6		19.5	17.1
A82-264016	15.7	15.2		17.3	16.7
A82-264021	15.9	15.6		18.1	16.3
A82-266026	14.9	14.9		15.6	15.4
A82-267015	15.5	14.9		16.8	15.4
A82-268013	16.4	15.7		18.7	17.6
CPRX67WTP	17.8	17.8		20.8	18.6
L80-2562	16.4	14.8		17.2	17.3
L80-4120	18.0	17.0		21.1	18.8
L80-4122	17.9	16.9		21.4	16.1
L80-4131	18.0	18.0		20.4	17.7
LN80-3466	16.7	16.5		19.1	17.4
LN80-5040	18.3	17.6		19.8	19.3
LN80-5043	18.5	17.0		21.0	19.8
LN80-5689	19.1	17.2		20.6	18.0
LN80-6084	16.6	15.7		18.5	16.1
LN80-6176	15.8	15.1		18.2	17.0
LN80-7532	15.9	15.8		16.4	17.6
LN80-7579	17.3	15.8		19.2	19.4
LN80-10398	17.2	17.1		18.9	18.8
LN80-11550	17.3	16.5		19.4	18.9

PRELIMINARY TEST IIA, 1983

MI	Neb.	N.J.	Ohio	S.D.	Wis.
Ida	Mead	Adelphia	Hoytville	Centerville	Arlington
			SEED SIZE (g/100)		
13.6	16.0	16.0	12.5	14.2	14.4
16.1	17.0	20.0	15.2	15.7	17.9
13.9	16.4	18.0	13.0	13.7	14.8
13.5	16.6	18.0	12.6	12.6	13.4
18.4	16.2	23.0	16.6	16.2	17.8
11.8	15.8	16.0	11.6	12.0	13.9
13.7	17.5	19.0	12.5	13.3	15.2
14.9	16.5	20.0	13.4	13.2	16.1
17.1	18.0	23.0	17.0	15.4	18.6
16.3	18.7	19.0	15.4	13.6	18.0
16.2	18.5	18.0	15.4	15.2	17.8
16.4	16.0	21.0	15.1	14.3	17.7
15.7	17.0	20.0	14.7	13.9	18.4
15.5	15.7	21.0	15.8	14.3	17.1
15.8	17.4	19.0	14.5	14.9	18.2
15.2	15.1	18.0	14.9	12.9	15.9
14.3	15.5	19.0	13.8	14.1	16.5
13.8	15.0	18.0	12.9	13.1	15.8
15.3	16.2	18.0	13.4	13.6	15.6
14.7	16.0	20.0	13.5	14.1	17.0
15.1	18.5	20.0	15.3	14.7	19.1
15.5	17.7	21.0	13.4	14.4	16.5
15.8	17.7	23.0	15.1	16.2	17.5
16.3	18.2	23.0	15.3	15.3	18.4
17.0	17.0	23.0	14.3	16.3	18.6
15.2	18.0	19.0	15.7	14.2	15.1
16.8	18.8	22.0	15.7	15.2	19.1
17.3	18.4	25.0	14.4	15.0	18.7
17.1	17.8	23.0	15.7	14.4	18.8
15.8	16.6	20.0	13.4	14.7	18.9
15.3	15.2	19.0	13.5	12.9	16.2
14.9	15.1	20.0	13.0	13.6	16.9
16.3	16.3	21.0	14.2	14.2	19.3
16.2	17.2	19.0	14.5	15.6	17.3
15.6	16.1	21.0	14.7	14.7	19.1

PRELIMINARY TEST IIA, 1983

Strain	Mean 5 Tests	Iowa Ames	Ill. Urbana	Ind. Lafayette	Neb. Mead	Ohio Hoytville
		PROTEIN (%)				
BSR 201	40.6	40.8	41.0	39.8	41.4	40.0
Century	41.3	41.6	42.1	40.2	42.0	40.8
Corsoy 79 (II)	39.0	39.8	39.7	36.7	40.4	38.2
Hardin (I)	39.2	39.0	40.2	38.0	40.5	38.3
Pella (III)	38.8	39.4	38.1	38.3	39.6	38.8
A82-161035	38.1	38.9	37.7	36.6	38.8	38.7
A82-168030	39.0	39.5	38.6	37.8	39.8	39.3
A82-263007	38.6	41.3	37.0	38.1	38.8	37.9
A82-263010	39.7	40.5	39.3	40.0	40.3	38.5
A82-263027	40.6	41.1	41.2	41.6	39.3	40.0
A82-263034	40.1	39.0	42.5	40.3	40.3	38.6
A82-264001	40.0	41.1	40.3	38.8	40.8	39.0
A82-264003	39.7	40.0	38.9	38.6	41.2	39.8
A82-264013	41.3	42.4	41.7	41.5	41.4	39.6
A82-264014	38.8	38.6	37.8	39.6	39.7	38.3
A82-264016	38.8	39.2	38.9	38.2	38.2	39.5
A82-264021	39.0	38.9	38.0	38.8	40.2	39.1
A82-266026	40.3	40.6	41.4	39.3	40.8	39.4
A82-267015	39.5	39.4	39.5	38.6	39.9	40.2
A82-268013	41.7	43.2	41.3	42.0	41.8	40.0
CPRX67WTP	41.9	41.8	43.0	41.3	42.0	41.6
L80-2562	38.4	38.1	37.7	38.1	40.7	37.6
L80-4120	39.8	39.2	40.7	40.0	40.3	38.8
L80-4122	37.6	39.4	30.6	38.8	40.2	38.8
L80-4131	39.0	36.7	41.4	38.8	41.3	36.9
LN80-3466	39.4	39.7	39.5	39.1	40.1	38.5
LN80-5040	39.7	40.9	38.9	38.7	41.1	38.7
LN80-5043	39.7	39.5	39.3	39.1	40.7	40.1
LN80-5689	39.1	39.5	39.0	39.5	39.9	37.7
LN80-6084	38.8	38.6	38.1	38.0	40.7	38.8
LN80-6176	37.4	36.3	37.1	37.1	38.5	37.9
LN80-7532	40.1	41.0	40.0	39.1	40.6	40.0
LN80-7579	41.7	41.7	41.1	41.8	42.5	41.4
LN80-10398	40.7	41.2	41.9	39.5	40.4	40.4
LN80-11550	39.6	39.3	38.0	37.1	43.4	40.1

PRELIMINARY TEST IIA, 1983

Mean 5 Tests	Iowa Ames	Ill. Urbana	Ind. Lafayette	Neb. Mead	Ohio Hoytville
		OIL (%)			
22.1	21.8	21.9	22.9	22.1	21.6
21.9	22.2	21.1	23.0	21.3	21.8
23.0	22.7	23.1	24.0	23.2	22.1
23.2	23.1	22.9	23.6	23.0	23.5
23.2	22.6	23.7	23.9	22.4	23.6
23.1	23.5	23.1	23.7	22.9	22.2
22.5	22.1	22.7	23.2	22.5	22.1
23.4	22.7	23.3	23.9	23.4	23.7
22.2	21.8	22.3	22.4	21.9	22.4
22.6	22.7	22.7	22.4	22.7	22.7
22.9	23.5	21.9	22.9	23.3	23.1
22.2	21.5	22.8	23.1	21.2	22.5
23.3	22.7	24.4	24.1	22.5	23.0
22.8	22.1	22.6	23.1	22.4	24.0
23.2	23.4	24.3	23.4	22.6	22.5
23.7	23.7	23.4	24.1	23.1	24.0
23.5	23.1	24.0	24.1	22.9	23.5
22.2	22.5	21.3	22.6	22.1	22.5
23.2	22.8	23.0	23.3	23.5	23.4
21.8	21.0	21.4	22.2	21.3	23.0
22.0	22.3	21.6	22.5	22.3	21.3
23.8	23.8	24.0	24.1	22.8	24.1
22.7	23.2	22.4	22.2	22.6	22.9
22.4	23.2	22.5	21.7	21.9	22.5
19.7	9.2	22.1	22.6	21.6	23.1
22.9	22.9	22.4	22.5	22.4	24.5
22.5	21.9	22.9	22.9	21.9	22.7
23.1	23.3	23.0	23.4	22.8	23.2
23.0	22.5	23.2	22.4	23.5	23.5
22.7	22.8	23.1	22.9	22.4	22.5
23.5	23.1	24.3	24.2	22.9	22.9
22.5	22.7	21.9	22.8	22.6	22.7
21.6	21.5	21.9	22.3	21.0	21.2
22.1	21.8	21.4	22.9	22.0	22.5
23.3	22.9	24.6	24.6	21.1	23.3

PRELIMINARY TEST IIB, 1983

Strain		Parentage	Generation Composited
1.	Century	Calland x Bonus	F_6
2.	Corsoy 79 (II)	$Corsoy_3^6$ x Lee 68	BC_5 F_3
3.	Hardin (I)	Corsoy x Cutler 71	F_3
4.	Pella (III)	L66L-137 x Calland	F_4
5.	C1625	Century x Hodgson	F_5
6.	C1627	Century x Hodgson	F_5
7.	C1628	Century x Hodgson	F_5
8.	C1629	Century x Hodgson	F_5
9.	C1632	L69U37-17-5 x Hodgson	F_5
10.	C1636	Union x Century	F_5
11.	C1638	Century x Wells II	F_5
12.	C1639	Union x Wells II	F_5
13.	HW8221	A76-202015 x (Tracy x Williams)	F_6
14.	HW8222	A75-103019 x A76-202015	F_6
15.	HW8223	(Cumberland x Century) x (A76-202015 x A76-304005)	F_5
16.	HW8224	AX860-1 x Amcor	F_5
17.	M74-498	Peterson Px20 x 554-10	F_5
18.	M76-89	M65-442 x ($Hodgson_6^6$ x Merit)	F_5
19.	M76-141	M70-271 x Corsoy	F_5
20.	M76-151	M70-271 x ($Hodgson_6^6$ x Merit)	F_5
21.	M76-160	M70-330 x ($Hodgson_6^6$ x Merit)	F_5
22.	M76-161	M70-330 x ($Hodgson_6^6$ x Merit)	F_5
23.	Gnome	Williams x Ransom	F_4
24.	Gnome, Rps_1k	$Gnome_6^6$ x Williams 82	BC_5 F_3
25.	HC79-2562	L74D200 x Elf	F_4
26.	HC80-490	D66-5566 x Elf	F_4
27.	HC80-654	Harcor x Sprite	F_4
28.	HC80-658	Harcor x Sprite	F_4
29.	HC80-969	Gnome x Sprite	F_4
30.	HC80-976	Gnome x Sprite	F_4
31.	HC80-984	HC74-3386 x Sprite	F_4
32.	HC80-1054	A75-102032 x Sprite	F_4
33.	HC80-5770	Woodworth x V68-1034	F_4
34.	HC80-6100	Hodgson x Elf	F_5
35.	HC80-6143	Hodgson x L74D-619	F_4
36.	HW8225	Hobbit EMS Isoline	M_3

PRELIMINARY TEST IIB, 1983

Descriptive and Other Data

Strain	Descriptive Code	Chlorosis Score	Shattering Score	
		Ames	Manhattan	Urbana
Century	PTBr SYBl I	2.0	2	3
Corsoy 79 (II)	PGBr DYY I	4.2	2	1
Hardin (I)	PGBr DYY I	3.3	1	2
Pella (III)	PTT SYBl I	3.2	1	1
C1625	PGBr DYBf I	2.7	1	1
C1627	PGBr DYIb I	2.8	1	2
C1628	PGBr DYBf I	2.8	2	3
C1629	PGBr DYBf I	3.2	1	1
C1632	PG+TT DYBr I	4.3	1	1
C1636	WTT SYBl I	3.0	1	1
C1638	PGBr DYIb I	2.2	2	2
C1639	PGBr DYIb I	2.0	2	1
HW8221	WTT SYBl I	2.8	1	1
HW8222	PTBr SYBl I	2.2	1	2
HW8223	PGBr SYIb I	1.8	2	1
HW8224	WTBr SYBr I	3.8	1	1
M74-498	PGBr DYBf I	2.5	1	1
M76-89	PGT SYBf I	2.0	2	4
M76-141	WGBr DYY I	2.0	2	5
M76-151	PGBr DYBf I	1.5	2	5
M76-160	WGBr DYY I	1.7	2	2
M76-161	WGBr DYBf I	1.5	1	2
Gnome	PTT SYBl D	3.2	1	1
Gnome, Rps_i^k	PTT SYBl D	3.2	1	1
HC79-2562	PTT SYBl D	2.0	1	1
HC80-490	PTT SYBl D	2.2	1	1
HC80-654	WTT SYGr D	2.7	1	1
HC80-658	P+WTBr SYY D	2.0	1	1
HC80-969	PTT SYBl D	2.5	1	1
HC80-976	WTT SYBl D	2.0	1	1
HC80-984	WTT SYBl D	2.3	1	1
HC80-1054	WTT IYBl D	1.2	1	1
HC80-5770	WTT IYBf+BlD	3.3	1	1
HC80-6110	PTT SYBl D	1.7	1	5
HC80-6143	PTT IYBr D	2.5	1	2
HW8225	WTT SYBl D	3.0	1	1

PRELIMINARY TEST IIB, 1983

Disease Data

	BSR			PR_1	PS	PSB	SMV	GERM	Hard Seeds	Green Seeds
	Ames		Lafayette	Lafayette	Lafayette					
	Plant	Stem	Stem	a	a	n	a			
	n %	n %	n %	--Reaction--	% %	% %	Score	%	%	%
Century	100	71.5	0	R	7	1	4E	78	14	8
Corsoy 79 (II)	100	71.3	0	R	14	1	5E	71	14	1
Hardin (I)	100	63.4	0	R	15	0	4E	77	17	13
Pella (III)	100	58.2	40	R	5	8	5M	82	5	7
C1625	—	—	40	H	18	1	2M	57	34	1
C1627	—	—	20	S	7	0	4M	47	36	8
C1628	—	—	20	R	2	0	1	91	0	4
C1629	—	—	0	S	1	1	2M	77	20	5
C1632	—	—	0	R	1	0	2M	75	20	0
C1636	—	—	20	R	2	1	5E	80	13	7
C1638	—	—	0	R	8	1	3E	71	22	27
C1639	—	—	20	R	5	5	3E	71	10	21
HW8221	—	—	60	R	0	2	3E	53	46	18
HW8222	100	52.3	20	R	4	0	4E	97	0	1
HW8223	100	58.4	0	R	0	0	4E	92	2	3
HW8224	100	83.5	0	R	7	0	4E	83	10	0
M74-498	100	74.3	0	R	4	0	2M	83	7	12
M76-89	100	54.3	20	R	2	0	3E	94	0	0
M76-141	100	78.7	20	H	2	0	3E	75	15	2
M76-151	100	68.9	20	R	4	0	1	71	3	2
M76-160	100	70.9	20	R	0	0	2M	66	26	1
M76-161	100	62.2	0	R	6	0	1	46	50	5
Gnome	100	92.7	40	S	0	0	1	91	5	18
Gnome, Rps_1^k	100	96.0	60	R	2	0	1	95	1	17
HC79-2562	100	89.0	20	H	0	0	3E	92	0	2
HC80-490	100	67.0	40	S	0	0	3E	87	1	3
HC80-654	100	62.8	20	H	8	0	2M	88	7	19
HC80-658	100	77.2	40	S	1	1	3M	64	0	4
HC80-969	100	88.2	0	S	3	0	3M	95	0	1
HC80-976	100	90.0	60	S	1	0	2E	97	0	8
HC80-984	100	94.7	20	S	5	0	2E	84	9	9
HC80-1054	100	100.0	20	S	0	1	5E	72	27	6
HC80-5770	100	65.1	40	H	0	0	2E	96	2	4
HC80-6110	100	63.8	40	S	0	0	2M	67	16	8
HC80-6143	100	60.0	80	S	3	0	2E	87	1	0
HW8225	100	93.8	0	S	0	0	1	66	24	10

PRELIMINARY TEST IIB, 1983

Regional Summary

Strain	Yield	Rank	Maturity	Lodging	Plant Height	Seed Quality	Seed Size	Composition Protein	Composition Oil
No. of Tests	10	10	9	10	10	8	9	5	5
	bu/a	No.	Date	Score	In.	Score	g/100	%	%
Century	47.7	20	+2.8	1.5	34	1.9	17.6	39.9	22.1
Corsoy 79 (II)	48.3	18	9-18.8*	2.3	37	2.1	14.7	39.2	23.1
Hardin (I)	46.3	25	-3.2	2.1	33	2.1	14.2	38.2	23.5
Pella (III)	48.0	19	+6.9	1.6	38	1.7	17.9	38.9	23.2
C1625	50.2	6	+0.9	1.5	34	2.0	17.1	39.3	23.6
C1627	53.6	1	+2.3	1.8	37	2.0	16.9	39.4	23.2
C1628	51.9	2	+3.9	2.0	35	2.1	17.6	40.4	22.1
C1629	49.7	12	+2.3	1.6	34	1.9	16.9	39.7	23.6
C1632	50.0	10	0.0	1.8	34	1.9	17.5	39.0	22.8
C1636	50.1	8	+3.6	1.4	36	1.7	18.0	40.0	23.4
C1638	50.7	5	+2.2	1.7	39	2.3	16.9	39.3	23.3
C1639	49.5	13	+2.1	1.5	39	2.4	17.7	39.8	23.3
HW8221	51.1	3	+5.2	1.6	30	1.7	16.7	41.0	22.3
HW8222	49.5	13	+4.2	2.1	34	1.7	17.6	37.8	24.0
HW8223	50.1	8	+3.4	1.6	37	1.8	17.2	39.3	23.5
HW8224	44.2	31	+8.3	2.3	40	2.0	14.9	38.6	22.2
M74-498	46.1	27	-3.3	1.6	30	2.1	16.2	40.3	22.7
M76-89	42.6	33	-1.0	1.4	29	2.4	15.9	36.9	24.9
M76-141	37.9	36	-1.4	1.7	28	2.2	15.0	37.7	24.4
M76-151	42.7	32	-3.1	1.8	30	2.2	16.2	38.5	24.3
M76-160	46.1	27	+1.7	1.3	32	2.0	17.6	39.6	23.8
M76-161	41.5	35	-1.8	1.6	31	2.0	16.2	38.8	24.7
Gnome	47.0	22	+5.3	1.3	22	1.5	14.7	40.4	22.5
Gnome Rps_1^k	48.8	16	+6.7	1.6	23	1.6	14.8	40.9	22.2
HC79-2562	49.8	11	+6.2	1.4	23	1.8	15.2	41.3	22.4
HC80-490	46.8	23	+2.3	1.3	23	1.7	14.3	40.7	22.1
HC80-654	44.4	30	+4.8	1.5	25	1.8	14.2	40.8	22.0
HC80-658	42.3	34	-0.3	1.7	23	2.0	14.5	38.1	23.8
HC80-969	49.4	15	+6.6	1.4	22	1.6	15.6	38.0	23.9
HC80-976	48.5	17	+7.0	1.7	25	1.7	14.4	39.2	23.6
HC80-984	46.6	24	+7.6	1.3	21	1.6	16.3	37.6	24.0
HC80-1054	50.2	6	+7.0	1.4	24	1.7	15.1	40.2	23.3
HC80-5770	47.1	21	+4.6	1.3	23	1.6	14.0	38.7	22.5
HC80-6100	46.3	25	+3.3	1.3	21	1.5	14.7	40.1	23.0
HC80-6143	45.4	29	+4.0	1.7	25	1.6	14.4	37.9	23.8
HW8225	50.9	4	+5.1	1.4	22	1.5	14.6	37.6	23.7

*121 days after planting

Several strains in this test were superior to the check varieties in seed yield. The strain HW8223 combined good yield and a very low iron chlorosis score. The strain HC1054, though too late for a Group II entry, also combined good yield, a very low iron chlorosis score, and excellent resistance to shattering.

PRELIMINARY TEST IIB, 1983

Strain	Mean 10 Tests	Iowa		Ill.	Ind.
		Ames	Marshalltown	Urbana	Lafayette
		YIELD (bu/a)			
Century	47.7	47.8	51.9	58.3	46.0
Corsoy 79 (II)	48.3	43.8	48.6	49.8	51.9
Hardin (I)	46.3	42.8	50.4	56.6	40.6
Pella (III)	48.0	49.0	46.2	59.7	47.5
C1625	50.2	49.2	56.2	53.4	52.6
C1627	53.6	54.5	55.5	57.6	54.2
C1628	51.9	53.1	54.1	59.5	53.0
C1629	49.7	53.8	55.9	54.8	51.9
C1632	50.0	49.2	53.9	63.3	49.5
C1636	50.1	50.3	50.7	64.9	49.9
C1638	50.7	49.1	51.3	65.2	45.1
C1639	49.5	51.5	47.8	65.1	49.2
HW8221	51.1	51.9	48.2	65.4	51.2
HW8222	49.5	52.5	50.2	59.3	52.8
HW8223	50.1	51.1	55.0	60.1	50.8
HW8224	44.2	44.0	44.8	60.7	48.7
M74-498	46.1	45.7	47.6	49.8	46.7
M76-89	42.6	49.7	51.9	50.3	43.1
M76-141	37.9	42.1	46.8	29.6	44.1
M76-151	42.7	39.9	46.5	49.4	46.3
M76-160	46.1	49.7	50.8	50.2	44.1
M76-161	41.5	46.0	48.4	47.8	43.3
Gnome	47.0	49.1	48.1	59.7	46.0
Gnome Rps_1^k	48.8	49.5	44.8	60.3	51.9
HC79-2562	49.8	52.1	53.9	58.4	53.8
HC80-490	46.8	52.0	49.4	50.9	50.3
HC80-654	44.4	43.9	45.6	45.6	43.5
HC80-658	42.3	40.2	49.1	45.6	40.3
HC80-969	49.4	52.6	53.4	52.5	53.9
HC80-976	48.5	51.1	50.8	56.7	55.1
HC80-984	46.6	46.6	48.2	51.5	44.5
HC80-1054	50.2	51.4	50.6	65.5	49.7
HC80-5770	47.1	48.5	46.5	59.3	45.6
HC80-6100	46.3	55.0	53.6	48.5	44.4
HC80-6143	45.4	48.6	47.3	48.7	47.0
HW8225	50.9	53.3	50.4	63.2	53.8
C.V. (%)		7.3	3.7	7.1	8.1
L.S.D. (5%)		7.1	3.7	8.0	7.9
Row sp. (in.)		27	27	30	24
Rows/plot		4	4	4	4
Reps		2	2	2	2

PRELIMINARY TEST IIB, 1983

MI	Neb.	N.J.	Ohio	S.D.	Wis.
Ida	Mead	Adelphia	Hoytville	Centerville	Arlington
			YIELD (bu/a)		
50.3	56.1	46.4	40.6	42.2	37.8
56.3	56.1	44.9	40.8	49.6	40.9
54.2	50.5	38.8	33.5	47.9	48.1
50.6	42.9	49.8	43.0	47.5	43.5
49.1	55.2	49.2	40.5	52.1	44.6
61.0	58.1	52.3	44.1	53.9	44.5
56.7	53.7	53.1	45.7	46.9	43.5
49.0	50.7	49.4	39.9	50.6	41.1
58.7	51.3	44.2	40.2	46.1	43.9
57.1	54.9	43.8	39.4	47.9	41.8
51.1	55.0	49.6	45.5	54.7	40.2
43.7	53.8	51.6	41.1	50.6	40.6
55.0	56.1	47.8	42.3	48.9	44.2
55.1	50.1	45.8	43.5	44.8	41.0
54.1	51.5	46.5	41.3	49.2	41.6
39.3	45.6	41.0	36.9	45.4	35.7
50.3	56.1	39.8	34.7	49.3	40.6
29.6	52.7	41.3	20.4	47.9	39.1
34.9	51.7	39.4	7.8	39.5	43.1
42.7	51.8	49.8	12.0	45.1	43.2
44.7	51.5	49.1	25.8	51.5	43.4
24.5	47.8	47.0	23.9	45.9	40.6
46.6	51.7	48.4	36.4	41.9	42.0
48.2	51.0	50.4	42.0	50.2	40.1
53.6	47.9	51.4	42.8	47.0	36.9
39.4	52.8	48.3	37.9	41.7	45.6
46.0	48.2	44.5	38.3	47.6	40.3
47.7	45.4	43.4	29.0	49.0	33.1
52.5	53.7	46.5	39.5	44.3	45.2
50.1	55.2	39.9	43.2	43.9	38.8
49.9	40.5	51.6	50.3	43.0	40.3
58.8	45.7	49.5	44.2	45.5	40.7
52.1	53.9	41.2	42.0	42.3	40.0
46.1	49.6	50.0	25.8	52.1	37.7
46.0	49.0	52.2	35.6	40.2	39.6
48.7	54.2	46.9	42.3	51.9	44.4
17.2	8.3	4.86	12.1	9.7	8.0
17.0	8.6	4.62	9.0	N.S.	6.7
20	30	30	15	30	30
4	4	4	5	4	4
2	2	2	2	2	2

PRELIMINARY TEST IIB, 1983

Strain		Iowa		Ill.	Ind.
		Ames	Marshalltown	Urbana	Lafayette
		YIELD RANK			
Century	20	26	10	17	24
Corsoy 79 (II)	18	32	22	28	9
Hardin (I)	25	33	17	20	35
Pella (III)	19	23	33	11	20
C1625	6	19	1	22	8
C1627	1	2	3	18	2
C1628	2	5	5	13	6
C1629	12	3	2	21	9
C1632	10	19	6	6	17
C1636	8	15	15	5	15
C1638	5	21	12	3	27
C1639	13	11	27	4	18
HW8221	3	10	24	2	12
HW8222	13	7	19	14	7
HW8223	8	13	4	10	13
HW8224	31	30	35	8	19
M74-498	27	29	28	28	22
M76-89	33	16	10	26	34
M76-141	36	34	30	36	30
M76-151	32	36	31	30	23
M76-160	27	16	13	27	30
M76-161	35	28	23	33	33
Gnome	22	21	26	11	24
Gnome Rps_1^k	16	18	35	9	9
HC79-2562	11	8	6	16	4
HC80-490	23	9	20	25	14
HC80-654	30	31	34	34	32
HC80-658	34	35	21	34	36
HC80-969	15	6	9	23	3
HC80-976	17	13	13	19	1
HC80-984	24	27	24	24	28
HC80-1054	6	12	16	1	16
HC80-5770	21	25	31	14	26
HC80-6100	25	1	8	32	29
HC80-6143	29	24	29	31	21
HW8225	4	4	17	7	40

PRELIMINARY TEST IIB, 1983

MI	Neb.	N.J.	Ohio	S.D.	Wis.
Ida	Mead	Adelphia	Hoytville	Centerville	Arlington
			YIELD RANK		
16	2	23	17	32	32
6	2	25	16	10	19
9	25	36	29	15	1
15	35	9	8	19	9
20	6	14	18	3	4
1	1	2	5	2	5
5	13	1	2	21	9
21	24	13	20	7	17
3	22	27	19	22	8
4	9	28	22	15	15
14	8	11	3	1	26
30	12	4	15	7	21
8	2	18	10	14	7
7	26	24	6	27	18
10	20	21	14	12	16
33	33	32	25	25	35
16	2	34	28	11	21
35	16	30	34	15	30
34	18	35	36	36	13
31	17	9	35	26	12
29	20	15	31	6	11
36	31	19	33	23	21
25	18	16	26	33	14
23	23	7	12	9	27
11	30	6	9	20	34
32	15	17	24	34	2
27	29	26	23	18	24
24	34	29	30	13	36
12	13	21	21	28	3
18	6	33	7	29	31
19	36	4	1	30	24
2	32	12	4	24	20
13	11	31	12	31	28
26	27	8	31	3	33
27	28	3	27	35	29
22	10	20	10	5	6

PRELIMINARY TEST IIB, 1983

Strain	Mean 9 Tests	Iowa Ames	Iowa Marshalltown	Ill. Urbana	Ind. Lafayette
		MATURITY (date)			
Century	+2.8	+7		+7	-1
Corsoy 79 (II)	9-18.8	9-14		9-12	9-15
Hardin (I)	-3.2	-3		-3	-5
Pella (III)	+6.9	+14		+9	+1
C1625	+0.9	+4		+5	-3
C1627	+2.3	+8		+3	+1
C1628	+3.9	+8		+6	0
C1629	+2.3	+6		+3	-3
C1632	0.0	+4		+2	-5
C1636	+3.6	+8		+7	0
C1638	+2.2	+7		+4	-3
C1639	+2.1	+7		+6	0
HW8221	+5.2	+13		+5	+1
HW8222	+4.2	+12		+6	-1
HW8223	+3.4	+8		+7	0
HW8224	+8.3	+20		+12	+4
M74-498	-3.3	-2		-2	-3
M76-89	-1.0	+1		+1	+2
M76-141	-1.4	+1		-4	-2
M76-151	-3.1	-4		-5	-4
M76-160	+1.7	+4		+1	-2
M76-161	-1.8	-2		+4	-5
Gnome	+5.3	+15		+6	+1
Gnome Rps_1^k	+6.7	+18		+6	+2
HC79-2562	+6.2	+15		+7	+1
HC80-490	+2.3	+12		+2	-1
HC80-654	+4.8	+13		+3	+2
HC80-658	-0.3	0		+1	0
HC80-969	+6.6	+16		+9	+3
HC80-976	+7.0	+18		+9	+3
HC80-984	+7.6	+16		+10	+5
HC80-1054	+7.0	+17		+11	+4
HC80-5770	+4.6	+12		+6	+1
HC80-6100	+3.3	+12		+4	-3
HC80-6143	+4.0	+13		0	0
HW8225	+5.1	+15		+11	+2
Date Planted	5-21	5-13		5-10	5-11
Days to Mature	121	124		125	127

PRELIMINARY TEST IIB, 1983

MI	Neb.	N.J.	Ohio	S.D.	Wis.
Ida	Mead	Adelphia	Hoytville	Centerville	Arlington
			MATURITY (date)		
0	+3	+1	+5	+3	0
9-20	9-17	9-22	9-11	9-27	10-2
-1	-2	-4	+1	-7	-5
+2	+11	+6	+9	+10	0
+1	0	0	+3	-1	-1
+1	+1	+1	+6	+1	-1
+2	+2	+5	+6	+5	+1
0	+3	0	+11	+2	-1
0	+2	-2	+2	+1	-4
+1	+4	+3	+7	+4	-2
0	+3	+2	+4	+4	-1
0	0	+3	+4	0	-1
+2	+9	+4	+9	+5	-1
+1	+4	+3	+8	+6	-1
+2	+3	+1	+7	+3	0
+5	+10	+5	+10	+7	+2
-4	-4	-7	+2	-2	-8
-2	+1	-5	-1	0	-6
-3	+1	-1	0	-3	-2
-4	0	0	-1	-4	-6
0	+4	+3	+6	+2	-3
-2	+1	-2	+1	-4	-8
0	+7	+3	+10	+8	-2
+1	+9	+6	+11	+8	-1
+4	+6	+7	+11	+6	-1
-2	+5	+1	+4	+5	-5
+2	+8	+4	+7	+5	-1
+1	+4	-2	-1	-1	-5
+2	+8	+4	+10	+7	0
0	+10	+5	+12	+7	-1
+2	+10	+6	+12	+8	-1
+2	+9	+6	+9	+7	-2
+1	+5	+5	+10	+4	-3
0	+5	+3	+8	+6	-5
+2	+6	+5	+7	+5	-2
+3	+8	+6	+11	-8	-2
5-27	5-24	6-3	5-30	5-26	5-16
116	116	111	104	124	139

PRELIMINARY TEST IIB, 1983

Strain	Mean 10 Tests	Iowa		Ill.	Ind.
		Ames	Marshalltown	Urbana	Lafayette
		LODGING (score)			
Century	1.5	1.8	2.5	1.0	1.0
Corsoy 79 (II)	2.3	2.5	3.6	2.5	1.8
Hardin (I)	2.1	2.8	3.4	2.5	2.0
Pella (III)	1.6	1.7	2.8	1.0	1.0
C1625	1.5	1.8	2.9	1.0	1.0
C1627	1.8	2.8	3.0	1.0	1.5
C1628	2.0	2.7	3.1	1.0	1.3
C1629	1.6	2.0	3.1	1.0	1.0
C1632	1.8	2.2	3.0	2.0	1.5
C1636	1.4	1.6	2.3	1.0	1.0
C1638	1.7	2.4	3.3	1.0	1.0
C1639	1.5	1.9	2.8	1.0	1.0
HW8221	1.6	2.4	2.7	1.0	1.0
HW8222	2.1	3.0	3.4	1.0	1.0
HW8223	1.6	1.9	3.2	1.0	1.0
HW8224	2.3	3.0	3.9	2.0	2.3
M74-498	1.6	2.3	2.5	1.0	1.0
M76-89	1.4	1.7	2.4	1.0	1.0
M76-141	1.7	2.9	3.0	1.0	1.0
M76-151	1.8	2.7	3.3	1.0	1.5
M76-160	1.3	1.6	2.0	1.0	1.0
M76-161	1.6	1.7	3.0	1.0	1.0
Gnome	1.3	1.7	1.8	1.0	1.0
Gnome Rps_1^k	1.6	1.6	1.9	1.0	1.0
HC79-2562	1.4	1.4	1.8	1.5	1.0
HC80-490	1.3	1.7	1.8	1.0	1.0
HC80-654	1.5	1.6	1.9	1.0	1.0
HC80-658	1.7	1.9	2.5	1.0	1.0
HC80-969	1.4	1.6	1.8	1.0	1.0
HC80-976	1.7	1.7	2.2	1.0	1.0
HC80-984	1.3	1.4	1.7	1.0	1.0
HC80-1054	1.4	1.4	1.9	1.0	1.0
HC80-5770	1.3	1.3	1.7	1.0	1.0
HC80-6100	1.3	1.4	1.9	1.0	1.0
HC80-6143	1.7	1.8	2.0	1.0	1.0
HW8225	1.4	1.4	2.0	1.0	1.0

PRELIMINARY TEST IIB, 1983

MI	Neb.	N.J.	Ohio	S.D.	Wis.
Ida	Mead	Adelphia	Hoytville	Centerville	Arlington
			LODGING (score)		
1.0	1.0	1.0	1.5	1.0	2.8
2.0	1.3	3.0	1.9	1.0	3.8
1.5	1.3	2.0	1.4	1.0	3.3
1.5	1.3	1.0	1.9	1.0	2.5
1.0	1.0	1.5	1.4	1.0	2.8
1.0	1.0	1.5	1.6	1.0	3.3
2.5	1.0	2.0	1.8	1.0	3.8
1.5	1.0	1.0	1.6	1.0	2.8
1.0	1.0	1.0	1.9	1.0	3.0
1.0	1.0	1.0	1.4	1.0	3.0
1.0	1.0	1.0	2.2	1.0	3.0
1.0	1.0	1.0	1.5	1.0	2.8
1.5	1.3	1.0	1.4	1.0	3.0
2.0	1.8	2.5	1.3	1.0	3.5
1.0	1.0	1.0	1.6	1.0	3.0
2.5	1.5	2.0	1.4	1.0	3.3
1.0	1.0	1.0	1.4	1.0	3.5
1.0	1.0	1.0	1.3	1.0	3.0
1.5	1.0	1.0	1.2	1.0	3.3
1.0	1.3	1.5	1.3	1.0	3.5
1.0	1.0	1.0	1.2	1.0	2.0
1.0	1.0	2.0	1.4	1.0	2.5
1.0	1.0	1.0	1.2	1.0	2.5
1.0	1.0	3.0	1.7	1.0	2.3
1.0	1.0	1.0	1.7	1.0	2.5
1.0	1.0	1.5	1.4	1.0	2.0
1.0	1.0	2.0	1.5	1.0	2.5
1.5	1.0	3.0	1.2	1.0	2.5
1.0	1.0	2.0	1.2	1.0	2.5
1.0	1.0	3.0	1.7	1.0	3.0
1.0	1.0	1.0	1.3	1.0	2.3
1.0	1.0	1.5	1.8	1.0	2.5
1.0	1.0	1.0	1.3	1.0	2.5
1.0	1.0	1.0	1.1	1.0	2.3
2.0	1.0	2.3	1.6	1.0	3.3
1.0	1.0	1.5	1.3	1.0	2.3

PRELIMINARY TEST IIB, 1983

Strain	Mean 10 Tests	Iowa		Ill.	Ind.
		Ames	Marshalltown	Urbana	Lafayette
		PLANT HEIGHT (inches)			
Century	34	36	38	29	30
Corsoy 79 (II)	37	34	37	32	35
Hardin (I)	33	32	33	33	33
Pella (III)	38	42	39	37	34
C1625	34	36	37	27	33
C1627	37	40	40	33	39
C1628	35	36	39	30	34
C1629	34	34	38	29	32
C1632	34	35	38	33	38
C1636	36	37	40	33	36
C1638	39	42	40	34	37
C1639	39	42	42	34	37
HW8221	30	28	36	29	26
HW8222	34	37	40	28	31
HW8223	37	40	36	39	35
HW8224	40	42	42	34	39
M74-498	30	32	30	24	33
M76-89	29	29	32	27	31
M76-141	28	31	32	22	32
M76-151	30	32	32	27	33
M76-160	32	34	37	27	32
M76-161	31	32	37	28	32
Gnome	22	25	22	21	22
Gnome Rps_1^k	23	25	22	21	24
HC79-2562	23	25	24	21	24
HC80-490	23	24	22	20	23
HC80-654	25	24	26	27	24
HC80-658	23	23	23	20	21
HC80-969	22	24	22	23	21
HC80-976	25	30	28	22	24
HC80-984	21	20	24	19	18
HC80-1054	24	26	23	21	23
HC80-5770	23	24	24	22	21
HC80-6100	21	23	24	21	21
HC80-6143	25	28	24	22	25
HW8225	22	24	24	20	23

PRELIMINARY TEST IIB, 1983

MI	Neb.	N.J.	Ohio	S.D.	Wis.
Ida	Mead	Adelphia	Hoytville	Centerville	Arlington
		PLANT HEIGHT (inches)			
41	32	30	30	37	41
48	35	34	32	39	44
38	33	28	26	34	39
45	36	34	37	38	37
39	32	32	34	34	38
42	35	32	33	35	36
44	33	32	31	33	39
38	30	29	38	34	35
47	35	32	35	35	15
44	32	30	33	36	40
41	40	34	42	38	41
43	37	36	35	41	39
37	29	24	32	25	34
40	35	32	30	32	34
43	34	31	33	35	39
48	44	36	33	40	39
39	28	24	26	31	35
33	26	26	22	28	36
34	28	25	18	25	34
38	27	30	17	31	37
34	29	31	26	32	34
29	29	30	22	32	35
28	20	22	23	15	22
27	19	24	25	16	22
27	17	22	26	18	25
35	19	22	26	16	25
25	22	26	24	17	31
41	18	23	20	15	25
26	21	22	25	16	24
30	20	24	26	20	26
24	17	22	24	16	26
32	19	24	24	17	31
29	20	20	24	16	25
28	18	22	16	16	25
31	20	26	23	18	28
22	17	22	25	18	25

PRELIMINARY TEST IIB, 1983

Strain	Mean 8 Tests	Iowa		Ill.	Ind.
		Ames	Marshalltown	Urbana	Lafayette
		SEED QUALITY (score)			
Century	1.9	1.7		2.5	1.5
Corsoy 79 (II)	2.1	1.8		2.4	1.5
Hardin (I)	2.1	1.9		2.8	1.5
Pella (III)	1.7	1.6		1.7	1.5
C1625	2.0	1.5		2.5	1.5
C1627	2.0	1.5		2.1	2.0
C1628	2.1	1.8		2.1	1.5
C1629	1.9	1.8		2.0	1.5
C1632	1.9	1.4		2.0	1.5
C1636	1.7	1.4		1.8	1.5
C1638	2.3	1.8		2.7	1.5
C1639	2.4	1.8		2.8	2.0
HW8221	1.7	1.4		1.8	1.0
HW8222	1.7	1.5		1.8	1.5
HW8223	1.8	1.6		1.9	1.5
HW8224	2.0	1.8		2.5	1.5
M74-498	2.1	2.0		2.4	1.5
M76-89	2.4	2.0		2.1	1.5
M76-141	2.2	2.5		2.0	1.5
M76-151	2.2	2.0		2.4	1.5
M76-160	2.0	1.9		1.9	2.0
M76-161	2.0	2.1		2.4	1.5
Gnome	1.5	1.5		1.4	1.0
Gnome Rps_1^k	1.6	1.5		1.4	1.0
HC79-2562	1.8	1.5		1.7	1.5
HC80-490	1.7	1.7		1.9	1.5
HC80-654	1.8	1.5		1.6	1.5
HC80-658	2.0	1.5		2.0	1.0
HC80-969	1.6	1.6		1.7	1.5
HC80-976	1.7	1.5		1.7	1.0
HC80-984	1.6	1.6		1.4	1.0
HC80-1054	1.7	1.5		1.2	1.5
HC80-5770	1.6	1.4		1.4	1.0
HC80-6100	1.5	1.6		1.2	1.5
HC80-6143	1.6	1.4		1.7	1.5
HW8225	1.5	1.5		1.4	1.0

PRELIMINARY TEST IIB, 1983

MI	Neb.	N.J.	Ohio	S.D.	Wis.
Ida	Mead	Adelphia	Hoytville	Centerville	Arlington
		SEED QUALITY (score)			
	1.3	2.5	1.3	2.0	2.5
	2.0	2.0	1.7	2.0	3.5
	1.8	2.0	1.2	2.0	3.5
	1.5	2.0	1.2	2.0	2.0
	1.0	2.0	2.2	2.0	3.0
	1.5	2.0	2.0	2.0	3.0
	1.8	2.0	1.8	2.0	3.5
	1.8	1.5	1.4	2.0	3.5
	1.3	1.5	1.8	3.0	3.0
	1.0	2.5	1.2	2.0	2.0
	2.3	3.0	2.0	2.0	3.0
	2.0	3.0	1.7	3.0	3.0
	1.5	1.5	1.5	3.0	1.5
	1.5	2.0	1.4	2.0	2.0
	1.5	2.5	1.5	2.0	2.0
	1.8	1.5	1.6	2.0	3.0
	2.0	2.0	1.6	2.0	3.5
	2.5	2.5	3.0	3.0	2.5
	2.0	2.5	2.2	2.0	2.5
	2.8	2.5	2.1	2.0	2.5
	1.5	2.0	1.5	2.0	3.0
	2.5	1.5	1.6	2.0	2.5
	1.0	1.0	1.2	3.0	2.0
	1.0	1.5	1.1	3.0	2.5
	1.3	2.0	1.3	2.0	3.0
	1.3	1.5	1.2	2.0	2.5
	2.3	1.5	1.2	2.0	3.0
	2.0	2.5	1.6	2.0	3.0
	1.0	1.0	1.5	2.0	2.5
	1.0	2.5	1.1	2.0	2.5
	1.5	1.5	1.2	2.0	2.5
	1.3	2.0	2.0	2.0	2.0
	1.0	1.0	1.4	3.0	2.5
	1.0	1.0	1.3	2.0	2.5
	1.3	1.0	1.4	2.0	2.5
	1.3	1.5	1.3	2.0	2.0

PRELIMINARY TEST IIB, 1983

Strain	Mean 9 Tests	Iowa		Ill.	Ind.
		Ames	Marshalltown	Urbana	Lafayette
		SEED SIZE (g/100)			
Century	17.6	16.5		20.2	18.5
Corsoy 79 (II)	14.7	14.3		15.6	15.4
Hardin (I)	14.2	13.9		16.4	14.7
Pella (III)	17.9	17.4		19.7	20.5
C1625	17.1	16.0		19.9	18.8
C1627	16.9	16.0		20.3	19.7
C1628	17.6	16.6		20.8	19.5
C1629	16.9	16.7		20.3	19.3
C1632	17.5	17.0		20.3	19.3
C1636	18.0	17.6		18.7	20.5
C1638	16.9	17.3		19.6	18.8
C1639	17.7	16.7		19.6	19.3
HW8221	16.7	16.1		18.7	18.3
HW8222	17.6	18.6		19.6	19.6
HW8223	17.2	17.4		18.6	19.3
HW8224	14.9	14.6		17.2	16.2
M74-498	16.2	15.4		17.8	17.9
M76-89	15.9	16.0		16.9	16.5
M76-141	15.0	15.0		15.4	14.6
M76-151	16.2	15.8		17.5	17.9
M76-160	17.6	17.6		19.0	17.9
M76-161	16.2	16.0		17.2	16.2
Gnome	14.7	14.9		16.1	16.6
Gnome Rps$_1^k$	14.8	13.4		16.4	16.8
HC79-2562	15.2	15.1		16.6	16.4
HC80-490	14.3	15.0		15.2	15.1
HC80-654	14.2	13.7		14.6	15.7
HC80-658	14.5	15.0		15.1	14.9
HC80-969	15.6	15.8		17.4	17.1
HC80-976	14.4	13.2		15.8	16.2
HC80-984	16.3	15.1		17.3	19.0
HC80-1054	15.1	13.2		16.4	16.3
HC80-5770	14.0	13.7		15.2	16.1
HC80-6100	14.7	15.7		16.3	15.7
HC80-6143	14.4	14.7		15.7	15.6
HW8225	14.6	14.0		17.8	15.7

PRELIMINARY TEST IIB, 1983

MI	Neb.	N.J.	Ohio	S.D.	Wis.
Ida	Mead	Adelphia	Hoytville	Centerville	Arlington
			SEED SIZE (g/100)		
17.2	17.5	21.0	14.3	14.0	18.8
14.6	16.2	17.0	12.2	11.6	15.2
13.8	16.1	16.0	12.2	12.0	13.0
17.3	16.3	22.0	15.9	14.7	17.3
16.1	17.6	19.0	15.2	14.1	17.1
15.4	17.8	20.0	14.6	12.4	16.1
17.4	17.2	22.0	14.7	13.5	17.1
15.7	17.6	20.0	11.5	13.9	17.2
17.4	17.6	20.0	14.5	14.3	17.1
18.1	16.2	22.0	15.6	15.2	17.8
14.6	16.4	19.0	14.3	13.9	18.4
17.3	18.2	22.0	14.8	14.4	17.4
15.5	15.2	19.0	15.6	15.0	17.1
15.3	17.0	21.0	15.5	13.2	18.2
17.7	16.7	19.0	14.2	14.1	17.6
14.2	13.4	17.0	12.8	12.8	15.9
15.3	18.1	18.0	13.5	13.7	16.3
16.7	17.7	17.0	13.5	12.3	16.4
14.3	16.9	18.0	12.6	12.3	15.9
14.9	17.6	20.0	13.9	12.4	16.1
16.7	17.7	21.0	16.1	14.2	17.9
17.1	16.9	19.0	14.5	12.8	16.1
13.2	14.9	17.0	12.6	12.8	14.6
13.5	14.6	18.0	13.3	13.1	14.2
13.9	15.7	18.0	13.9	13.0	14.4
13.6	15.3	17.0	11.9	12.5	13.1
12.5	16.6	16.0	11.8	12.8	14.0
16.4	16.4	16.0	11.2	12.9	12.3
14.1	15.4	19.0	12.6	13.5	15.1
12.9	14.6	19.0	12.2	12.3	13.2
14.8	17.1	20.0	13.6	14.7	14.9
13.0	17.8	17.0	15.6	13.0	13.8
13.1	14.0	16.0	12.6	12.3	12.6
12.5	16.2	18.0	12.0	12.7	13.3
14.7	14.9	18.0	12.1	11.3	13.0
12.8	14.3	18.0	11.9	13.0	13.7

PRELIMINARY TEST IIB, 1983

Strain	Mean 5 Tests	Iowa Ames	Ill. Urbana	Ind. Lafayette	Neb. Mead	Ohio Hoytville
		PROTEIN (%)				
Century	39.9	40.0	0.0	38.6	41.3	39.6
Corsoy 79 (II)	39.2	39.2	39.0	38.3	40.1	39.2
Hardin (I)	38.2	38.8	38.9	36.4	39.7	37.2
Pella (III)	38.9	38.9	38.0	39.0	39.9	38.7
C1625	39.3	39.6	40.5	38.4	39.2	38.7
C1627	39.4	40.5	41.0	37.5	39.3	38.5
C1628	40.4	40.8	42.1	38.8	41.1	39.1
C1629	39.7	40.3	40.3	38.9	40.3	38.9
C1632	39.0	39.7	40.5	36.6	40.0	38.2
C1636	40.0	39.8	42.4	38.5	40.4	39.1
C1638	39.3	39.5	41.0	37.2	40.2	38.8
C1639	39.8	40.9	41.6	38.4	39.7	38.6
HW8221	41.0	41.3	41.0	39.5	41.7	41.4
HW8222	37.8	39.6	37.5	35.0	39.4	37.5
HW8223	39.3	39.7	40.4	37.4	40.5	38.6
HW8224	38.6	39.9	39.5	37.3	40.2	36.3
M74-498	40.3	40.9	40.8	39.1	40.8	40.0
M76-89	36.9	37.3	37.3	35.7	37.7	36.7
M76-141	37.7	38.7	38.8	35.3	38.9	36.7
M76-151	38.5	39.3	39.0	36.0	40.0	38.3
M76-160	39.6	40.2	42.2	37.5	40.5	37.5
M76-161	38.8	38.7	40.5	38.1	39.6	37.2
Gnome	40.4	41.5	41.8	38.7	40.6	39.2
Gnome Rps_1^k	40.9	40.6	41.6	39.4	41.0	41.8
HC79-2562	41.3	42.1	41.8	39.5	41.5	41.5
HC80-490	40.7	42.2	41.7	38.4	40.7	40.5
HC80-654	40.8	42.0	40.1	39.9	42.2	39.9
HC80-658	38.1	38.2	39.4	35.5	39.4	38.0
HC80-969	38.0	38.4	38.6	36.9	38.6	37.7
HC80-976	39.2	39.0	40.7	37.8	39.4	38.9
HC80-984	37.6	37.1	37.6	37.0	38.9	37.3
HC80-1054	40.2	40.4	42.0	37.0	41.1	40.4
HC80-5770	38.7	38.8	38.0	37.2	39.7	39.7
HC80-6100	40.1	41.8	41.3	38.7	40.0	38.7
HC80-6143	37.9	38.8	38.3	36.4	38.5	37.5
HW8225	37.6	37.4	39.0	37.0	37.3	37.1

PRELIMINARY TEST IIB, 1983

Mean 5 Tests	Iowa Ames	Ill. Urbana	Ind. Lafayette	Neb. Mead	Ohio Hoytville
		OIL (%)			
22.1	21.4	0.0	22.6	22.2	22.2
23.1	23.2	22.6	23.9	22.8	23.1
23.5	23.4	22.7	24.8	23.3	23.4
23.2	22.9	23.6	23.1	22.9	23.6
23.6	23.5	23.1	24.5	23.8	23.2
23.2	22.4	22.1	24.2	23.6	23.5
22.1	21.3	20.9	23.9	22.0	22.6
23.6	23.8	24.1	23.6	23.3	23.2
22.8	22.2	22.3	24.8	22.4	22.1
23.4	22.9	22.4	24.6	23.2	23.8
23.3	23.6	22.6	24.7	22.4	23.1
23.3	22.8	22.0	24.3	24.3	23.3
22.3	21.3	22.8	23.7	21.4	22.2
24.0	23.7	24.4	25.1	23.0	23.9
23.5	23.2	22.7	24.8	23.7	23.3
22.2	21.0	22.1	23.5	21.1	23.4
22.7	22.6	22.4	23.2	22.8	22.6
24.9	25.1	24.8	25.1	25.3	24.2
24.4	23.7	24.1	25.9	24.0	24.2
24.3	24.7	24.2	25.1	23.5	24.1
23.8	23.7	22.5	25.6	23.6	23.7
24.7	24.7	24.0	25.1	24.8	24.9
22.5	21.9	22.1	23.5	22.0	22.9
22.2	21.8	22.1	23.2	22.2	21.5
22.4	21.5	22.5	23.5	22.4	22.1
22.1	21.8	21.8	22.5	22.2	22.3
22.0	21.1	22.1	23.5	21.8	21.3
23.8	23.8	24.1	24.3	23.3	23.4
23.9	23.4	24.0	24.7	23.8	23.7
23.6	22.8	23.3	24.9	23.6	23.3
24.0	23.5	25.1	24.4	23.5	23.6
23.3	22.9	23.0	24.9	22.8	22.8
22.5	23.3	23.0	23.5	22.9	21.0
23.0	22.1	23.1	23.6	22.7	23.5
23.8	23.0	24.0	24.6	24.0	23.6
23.7	23.5	23.8	24.5	23.1	23.8

UNIFORM TEST III, 1983

Strain	Parentage	Previous* Testing	Generation Composited
1. Century (II)	Calland x Bonus	4	F_6
2. Cumberland (III)	Corsoy x Williams	7	F_4
3. Cumberland BC	Cumberland x (PI 84637 x PI 86972-1)	-	$90BC_6$ F_3
4. Fayette	Williams x PI 88.788	2	F_4
5. Hobbit	Williams x Ransom	5	F_5
6. Pella	L66L-137 x Calland	7	F_4
7. Sparks (IV)	Williams x Calland	-	F_4
8. Williams 82	Williams x Kingwa	3	$4BC_6$ F_3
9. Williams BC_6	Williams x (PI 86972-1 x PI 84637)	1	$3BC_6$ F_3
10. A79-336014 Harper	Unkown	2	F_4
11. A80-344003	A75-332035 x Century	1	F_4
12. A80-346029	A75-204018 x BSR 301	1	F_4
13. A81-257013	Land O'Lakes Max x BSR 302	P II A	F_4
14. A81-354025	Schechinger S48 x Land O'Lakes Max	P III B	F_4
15. HC74-634RE	Williams x Ransom	P III A	F_8
16. HC78-279	L72U-2567 x Essex	UT IV	F_5
17. HC78-349	L72U-2567 x Essex	UT IV	F_5
18. HC78-353	L72U-2567 x Essex	UT IV	F_5
19. HC78-676	L7OT-543G x L74D-619	1	F_5
20. HC79-478	L7OT-543G x L74D-619	P II A	F_5
21. HW79015	A72-512 x Oakland	2	F_5
22. HW8033	Cumberland x Pella	1	F_5
23. HW8067	A72-512 x Pella	1	F_5
24. HW8130	Pella x A75-105021	P III A	F_5
25. L79-3910	Union x L75-8020	P III A	F_6
26. L80-4323	Williams x PI 88.788	P III A	F_6
27. L80-4349	Williams x PI 88.788	P III A	F_6
28. U-75633	(Beeson x L15) x Amsoy 71	1	F_6
29. U-76360	Williams x Amsoy 71	P III B	F_5

*Number of years in test or name of 1982 test

UNIFORM TEST III, 1983

Descriptive and Other Data

Strain	Descriptive Code			Chlorosis Score Ames	Chlorosis Score Lamberton	Emergence Score Ames	Shattering Score Lubbock	Shattering Score Manhattan
Century (II)	PTBr	SYB1	I	2.7	2.0	4	1.4	2.0
Cumberland (III)	PGBr	SYIb	I	3.7	4.0	3	1.5	1.0
Cumberland BC	PGBr	SYIb	I	2.7	4.0	1	1.8	1.0
Fayette	WTT	SYB1	I	3.3	3.0	2	2.5	1.0
Hobbit	WTT	SYB1	D	2.5	3.6	1	2.0	1.0
Pella	PTT	SYB1	I	3.7	3.4	3	1.3	1.0
Sparks (IV)	WTT	SYB1	I	1.8	2.8	4	1.4	1.0
Williams 82	WTT	SYB1	I	3.0	4.2	2	1.0	1.0
Williams BC_6	WTT	SYB1	I	3.0	4.2	1	2.0	1.0
A79-336014	PTBr	IYB1	I	3.0	4.2	5	1.4	1.0
A80-344003	WTBr	DYBr	I	1.7	3.8	5	2.0	1.0
A80-346029	WTBr	DYBr	I	3.0	3.6	3	1.4	1.0
A81-257013	PTBr	SYB1	I	3.0	4.4	1	3.8	1.0
A81-354025	PTBr	SYBr	I	3.0	3.0	5	1.5	1.0
HC74-634RE	WTT	SYB1	D	3.3	4.0	1	2.3	1.0
HC78-279	PTT	DYB1	D	1.7	2.8	1	1.9	1.0
HC78-349	PTT	DYB1	D	1.7	2.8	1	2.3	1.0
HC78-353	PTT	DYB1	D	2.5	2.4	1	1.8	1.0
HC78-676	PTBr	SYBr	D	2.8	3.6	4	2.8	1.0
HC79-478	PTBr	SYBr	D	3.2	3.0	5	3.3	1.0
HW79015	PGBr	IYIb	I	2.8	4.0	5	2.0	1.0
HW8033	PGBr	DYIb	I	2.8	4.4	5	1.5	1.0
HW8067	WGBr	IYBf	I	3.7	4.0	5	2.3	1.0
HW8130	PT+GBr	DYB1+Gr	I	4.8	5.0	2	1.5	1.0
L79-3910	WTT	SYB1	I	3.0	4.4	1	2.3	1.0
L80-4323	WTT	IYB1	I	3.7	3.0	1	2.3	1.0
L80-4349	WTT	IYB1	I	3.2	3.5	1	2.0	1.0
U-75633	WTT	SYBr	I	3.2	4.0	5	1.0	1.0
U-76360	WGT	SYY	I	3.3	3.0	3	1.5	1.0

UNIFORM TEST III, 1983

Disease Data

Strain	BSR				BTS	CR	PR_1
	Ames		Lafayette	St. Paul	Ames	Eldorado	Lafayette
	Plant	Stem	Stem	Stem	a	n	a
	n %	n %	n %	n %	Score	Score	---Reaction---
Century (II)	100	54.2	0	70	2	4.0	R
Cumberland (III)	100	86.6	20	90	3	4.3	S
Cumberland BC	100	81.2	0	100	3	4.3	R
Fayette	100	71.7	0	75	4	3.8	H
Hobbit	100	80.7	20	85	2	3.3	S
Pella	100	73.8	40	100	4	4.3	R
Sparks (IV)	100	65.8	0	60	3	3.4	R
Williams 82	100	77.9	40	85	3	4.0	R
Williams BC_6	100	75.9	20	100	2	4.0	R
A79-336014	100	57.3	0	80	3	4.7	S
A80-344003	100	24.4	20	70	4	4.0	R
A80-346029	100	54.7	0	50	3	4.7	S
A81-257013	50	8.3	0	30	2	3.7	R
A81-354025	100	64.3	20	80	4	4.7	S
HC74-634RE	100	78.2	0	80	3	2.6	S
HC78-279	100	98.9	20	80	3	1.3	S
HC78-349	100	87.9	40	75	2	1.0	S
HC78-353	100	95.2	40	75	3	1.3	S
HC78-676	100	79.0	20	100	3	2.7	R
HC79-478	100	51.4	20	95	3	2.7	R
HW79015	100	41.6	0	70	3	4.3	H
HW8033	100	49.5	0	40	3	3.7	H
HW8067	100	52.6	-	95	2	4.7	H
HW8130	100	45.9	-	90	4	2.3	R
L79-3910	100	54.2	40	70	3	4.7	R
L80-4323	100	71.9	0	60	4	3.7	S
L80-4349	100	68.5	20	65	4	2.7	R
U-75633	100	50.0	60	60	3	3.3	H
U-76360	90	36.9	40	85	3	3.3	S

UNIFORM TEST III, 1983

Disease Data

PS		PSB	SMV	Germ	Hard Seeds	Green Seeds
Queenstown	Lafayette	Sullivan	Lafayette			
a %	a %	n %	a Score	%	%	%
1.3	7	34	4E	78	14	8
0	6	29	4	83	6	2
0	0	17	3	87	2	0
1.0	5	19	5	82	0	0
0.7	0	19	2M	70	4	10
0.7	5	36	5M	82	5	7
3.3	8	33	4	76	0	0
0.3	5	33	4E	93	0	0
0	5	40	5E	86	4	0
0.7	1	24	5E	78	7	1
0.7	4	22	5	71	10	5
2.7	7	15	4E	78	7	2
0	1	16	5E	65	15	5
0.7	2	22	4E	75	13	7
1.0	0	25	2M	92	3	2
0.7	2	11	2M	73	3	0
0.7	2	11	2M	86	0	0
0.7	5	7	3M	83	0	0
0.7	8	5	3	89	0	0
0.7	5	13	2	81	4	0
0	6	5	3	78	13	0
0	7	26	3	53	29	7
0.7	5	19	3	77	10	1
1.0	4	36	4	66	14	0
0	4	43	4	93	1	0
0.3	0	23	3	88	1	0
0.7	6	28	3	84	1	0
0.3	10	48	4	74	8	0
2.7	9	-	2	88	3	0

UNIFORM TEST III, 1983

Regional Summary

Strain	Yield	Rank	Maturity	Lodging	Plant Height	Seed Quality	Seed Size	Composition Protein	Composition Oil
No. of Tests	22	22	19	22	22	22	21	5	5
	bu/a	No.	Date	Score	In.	Score	g/100	%	%
Century (II)	36.7	26	-7.9	1.2	29	2.9	16.4	41.3	21.6
Cumberland (III)	38.8	14	9-23.9*	1.5	33	2.4	16.4	39.8	22.9
Cumberland BC	39.6	7	+0.7	1.7	33	2.4	17.8	40.5	23.0
Fayette	36.6	28	+1.3	1.6	37	2.1	14.8	41.6	21.6
Hobbit	37.5	20	+0.1	1.1	21	2.2	14.2	38.0	23.4
Pella	39.3	10	-3.0	1.3	34	2.5	17.2	39.0	22.8
Sparks (IV)	39.6	7	+3.7	2.3	39	2.5	15.5	40.1	22.0
Williams 82	39.1	12	+1.7	1.5	36	2.0	15.3	41.1	22.1
Williams BC	37.4	21	+0.3	1.5	32	2.2	16.5	41.5	22.3
A79-336014 Harper	40.8	1	-0.9	1.2	30	2.3	18.2	41.0	22.0
A80-344003	39.1	12	-2.1	1.2	29	2.7	14.9	42.4	21.4
A80-346029	38.5	16	-0.3	1.3	28	2.7	14.8	38.9	23.9
A81-257013	37.4	21	-3.3	2.0	37	2.9	16.3	42.4	20.8
A81-354025	39.9	6	-0.8	1.4	35	2.6	15.7	39.5	22.4
HC74-634RE	40.6	3	+1.3	1.2	22	2.0	16.7	41.6	22.2
HC78-279	38.7	15	+3.6	1.2	20	2.3	16.8	42.7	22.2
HC78-349	36.7	26	+3.2	1.2	19	2.3	16.2	42.3	22.8
HC78-353	35.7	29	+4.2	1.1	19	2.1	16.2	42.7	22.1
HC78-676	40.4	5	-0.6	1.3	24	2.6	14.8	41.1	21.9
HC79-478	37.3	24	-3.0	1.3	22	2.4	13.9	41.1	22.1
HW79015	39.4	9	-3.9	1.3	33	2.6	16.0	40.2	22.8
HW8033	40.5	4	-3.5	1.3	32	2.8	17.7	40.3	22.8
HW8067	40.7	2	-0.8	1.5	30	2.4	14.3	40.5	22.8
HW8130	37.4	21	-5.3	1.4	30	3.0	16.3	40.2	22.9
L79-3910	37.1	25	-3.8	1.9	35	2.2	15.2	41.4	21.5
L80-4323	39.2	11	-1.3	1.2	33	2.1	15.2	41.6	21.8
L80-4349	37.6	19	+1.4	1.3	33	2.2	15.4	41.8	22.4
U75-75633	37.7	18	-4.2	1.9	36	2.8	16.3	40.4	23.1
U76-76360	38.0	17	-5.8	1.3	32	2.6	15.2	40.5	22.9

*122 days after planting

Harper (A79-336014) has been the highest yielding entry in this test for three consecutive years. The determinate strain HC74-634RE is superior to Hobbit in yield but does not differ appreciably from Hobbit in other characteristics. A81-257013 appears to be superior to other entries in resistance to known stem rot. The two entries resistant to races 3 and 4 of the SCN, L80-4323 and L80-4349, are very similar in yield to the check varieties in this test.

UNIFORM TEST III, 1983

1982-1983, 2-year mean

Strain	Yield	Rank	Maturity	Lodging	Plant Height	Seed Quality	Seed Size	Composition Protein	Composition Oil
No. of Tests	47	47	43	47	47	46	45	10	10
	bu/a	No.	Date	Score	In.	Score	g/100	%	%
Century (II)	41.2	15	-6.9	1.6	31	2.5	17.0	41.8	19.6
Cumberland (III)	44.0	9	9-22.9*	1.8	34	2.0	17.0	39.9	21.1
Fayette	41.4	14	+1.9	1.8	38	1.8	15.2	41.2	19.8
Harper	45.9	1	-1.0	1.4	32	1.9	18.3	40.8	20.0
Hobbit	42.9	11	-0.5	1.3	22	1.9	14.7	38.2	21.6
Pella	44.5	5	-3.0	1.5	35	2.1	17.8	38.8	20.9
Williams 82	43.6	10	+2.4	1.7	37	1.7	15.8	41.0	20.2
Williams BC_6	42.7	12	+1.7	1.8	35	1.8	17.1	41.2	20.3
A80-344003	44.3	7	-0.5	1.4	32	2.2	15.4	42.0	19.3
A80-346029	44.5	5	+0.9	1.5	30	2.2	15.2	39.2	21.4
HC78-676	44.7	4	+0.2	1.5	25	2.2	15.2	41.0	19.8
HW79015	44.2	8	-4.5	1.5	34	2.2	16.3	40.0	20.4
HW8033	45.5	2	-3.8	1.5	33	2.3	18.2	40.0	20.8
HW8067	45.5	2	-0.4	1.8	31	2.0	14.8	40.5	21.0
U75633	42.1	13	-4.1	2.2	38	2.3	17.0	40.6	20.8

*123 days after planting

1981-1983, 3-year mean

No. of Tests	67	67	60	66	67	65	64	14	14
Century (II)	41.9	7	-6.6	1.5	32	2.3	17.3	41.9	19.6
Cumberland (III)	44.8	4	9-23.8*	1.8	34	2.0	17.3	40.0	20.8
Harper	46.6	1	-0.7	1.5	33	1.9	18.6	40.9	19.8
Hobbit	43.6	6	-0.4	1.3	22	1.8	15.2	38.8	21.2
Pella	45.3	2	-3.0	1.5	35	2.1	17.3	38.8	20.7
Williams 82	44.8	4	+2.9	1.8	37	1.7	16.3	41.2	20.0
HW79015	45.1	3	-4.4	1.5	34	2.1	16.5	40.3	20.2

*123 days after planting

UNIFORM TEST III, 1983

Strain	Mean 22 Tests	Iowa		Illinois				Ind.
		Ottumwa	Stuart	Eldorado	Girard	Pontiac	Urbana	Lafayette
		YIELD (bu/a)						
Century (II)	36.7	27.4	38.9	18.0	26.0	31.9	42.6	44.8
Cumberland (III)	38.8	31.9	40.2	30.8	29.6	40.8	46.0	46.6
Cumberland BC	39.6	29.0	45.3	31.6	32.7	38.9	47.0	54.3
Fayette	36.6	31.4	37.0	23.6	30.3	34.0	36.8	47.2
Hobbit	37.5	31.3	42.9	34.2	32.2	37.1	42.7	51.1
Pella	39.3	33.4	40.4	30.7	31.7	43.2	43.6	44.1
Sparks (IV)	39.6	34.7	39.8	29.6	28.2	40.5	39.2	47.9
Williams 82	39.1	34.2	38.7	31.8	31.4	45.7	40.9	49.5
Williams BC	37.4	27.9	37.7	30.9	28.1	46.0	36.4	45.9
A79-336014 [6]	40.8	36.3	44.3	31.5	34.3	44.9	41.6	51.2
A80-344003	39.1	32.1	40.5	31.1	29.6	45.3	42.7	48.4
A80-346029	38.5	32.2	41.0	25.9	31.1	48.0	36.8	47.3
A81-257013	37.4	30.1	36.4	25.9	27.8	39.7	35.7	42.8
A81-354025	39.9	30.2	36.3	29.7	28.7	36.1	42.3	43.4
HC74-634RE	40.6	35.4	44.6	36.4	28.3	41.6	43.9	50.8
HC78-279	38.7	29.0	36.9	32.1	30.7	43.5	43.4	53.7
HC78-349	36.7	27.4	37.0	30.7	25.2	39.6	36.8	49.4
HC78-353	35.7	30.5	36.2	34.2	24.2	34.2	42.7	48.0
HC78-676	40.4	31.1	41.7	43.0	32.2	43.8	33.2	45.0
HC79-478	37.3	32.3	40.7	36.9	30.9	34.8	42.2	50.0
HW79015	39.4	32.6	41.1	32.3	31.2	42.3	47.3	47.9
HW8033	40.5	32.6	41.9	26.8	31.1	43.5	47.4	52.8
HW8067	40.7	31.8	46.4	32.4	32.9	38.6	44.1	50.4
HW8130	37.4	24.0	39.8	30.4	31.6	40.7	41.6	43.4
L79-3910	37.1	26.0	36.8	26.5	29.7	41.1	38.3	45.4
L80-4323	39.2	29.1	36.9	25.1	30.1	49.0	43.5	50.3
L80-4349	37.6	29.0	38.9	26.1	27.9	39.7	37.6	45.7
U-75633	37.7	32.2	40.1	27.2	31.2	39.5	39.1	43.3
U-76360	38.0	29.4	38.6	30.7	24.1	34.1	45.9	47.0
C.V. (%)		8.2	5.6	12.1	11.2	17.9	15.8	8.2
L.S.D. (5%)		3.6	3.2	6.0	5.5	N.S.	1.1	6.3
Row sp. (in.)		27	27	30	30	30	30	24
Rows/plot		4	4	4	4	4	4	4
Reps		4	4	3	3	3	3	3

UNIFORM TEST III, 1983

Indiana			Kansas			Kentucky	Maryland
Greenfield	Bluffton	Sullivan	Manhattan	Powhattan	Rossville	Lexington[1]	Queenstown
			YIELD (bu/a)				
57.1	38.4	22.9	50.5	10.4	55.9	7.5	32.4
56.2	37.4	33.0	52.3	12.7	49.4	8.0	34.4
43.7	35.3	34.0	49.8	13.3	56.5	8.4	34.6
56.3	38.7	35.3	43.0	11.8	50.0	8.5	36.4
42.3	35.9	30.6	46.4	13.3	54.1	11.7	37.0
48.4	32.1	40.0	46.6	11.0	59.3	11.4	41.0
46.9	38.8	36.2	58.0	13.5	60.6	12.7	41.1
50.9	31.7	40.3	47.5	13.0	55.3	13.0	41.5
60.2	34.9	33.6	45.9	13.0	53.9	10.4	34.4
56.6	38.4	37.1	46.9	13.9	56.9	8.8	38.2
50.6	30.6	41.7	43.0	10.4	60.2	8.6	37.8
44.2	34.5	41.9	47.4	12.7	51.8	11.5	40.6
40.7	35.3	42.8	46.9	13.3	56.5	9.6	35.4
56.2	35.9	49.6	50.2	13.7	53.2	9.2	36.1
49.7	40.8	35.5	49.1	13.8	50.8	11.4	40.3
56.2	34.3	39.1	46.1	10.1	44.9	12.4	29.4
56.8	32.0	31.1	43.4	9.3	44.3	12.3	29.5
46.0	31.9	34.4	45.4	11.7	37.7	13.2	26.7
54.4	19.4	49.3	55.2	13.4	62.4	12.4	34.9
54.3	18.0	32.5	51.8	9.7	46.9	12.8	32.0
49.2	30.3	43.5	47.6	13.0	53.0	7.6	36.0
51.2	42.1	35.0	51.9	13.0	47.7	8.2	37.3
50.4	37.5	43.2	49.9	12.5	59.2	8.5	35.4
44.6	37.2	34.5	48.2	10.4	53.9	6.7	31.8
43.5	34.8	36.5	45.7	13.8	57.5	10.4	38.4
44.4	38.6	42.4	46.2	11.3	52.3	9.5	34.9
41.6	37.4	39.6	52.1	10.6	52.8	12.7	36.8
48.2	34.2	37.5	44.2	14.5	52.2	10.0	36.2
54.3	31.6	41.3	50.0	7.4	51.4	8.0	38.6
11.9	16.3	13.8	9.7	14.1	7.4	25.2	11.3
9.5	9.0	10.3	7.7	2.8	6.5	4.2	6.6
30	30	28	30	30	30	30	30
3	3	3	4	4	4	4	4
3	3	2	3	3	3	3	3

[1]Data not included in the mean

UNIFORM TEST III, 1983

Strain	Neb. Mead	N.J. Adel-phia	Ohio Hoyt-ville	Ohio Rip-ley	Ohio S. Charleston	Ohio Wooster	Penn. Landis-ville	S.D. Elk Point
			YIELD (bu/a)					
Century (II)	53.8	40.8	45.4	31.4	45.1	34.1	32.7	27.7
Cumberland (III)	45.0	39.3	41.0	41.2	46.5	34.2	39.0	26.1
Cumberland BC	44.3	37.8	48.2	46.7	44.9	30.8	51.2	20.5
Fayette	40.4	45.0	42.4	40.3	44.0	27.9	43.7	10.4
Hobbit	45.3	34.5	43.3	40.9	37.7	31.2	37.0	24.8
Pella	48.4	37.9	44.5	37.5	45.1	35.2	41.3	28.3
Sparks (IV)	42.4	36.9	46.0	42.8	43.8	34.5	54.1	16.4
Williams 82	41.2	37.9	45.1	42.3	49.0	31.0	45.2	16.9
William BC[6]	44.8	35.8	46.7	38.8	40.9	28.5	39.8	19.1
A79-336014	47.4	45.8	46.3	39.3	44.8	32.7	40.6	27.8
A80-344003	42.7	42.4	42.8	38.4	42.7	35.5	39.6	31.0
A80-346029	45.4	40.9	47.3	44.1	36.9	28.3	41.6	26.1
A81-257013	44.3	44.3	47.7	32.8	43.8	30.9	41.8	27.9
A81-345025	49.1	41.8	41.6	37.5	44.6	32.2	60.5	28.1
HC74-634RE	50.8	42.1	42.8	39.4	48.0	30.1	44.7	33.4
HC78-279	48.8	42.1	47.0	39.6	39.5	32.8	43.5	27.8
HC78-349	44.7	40.1	45.1	41.8	39.7	29.4	49.0	25.6
HC78-353	42.3	48.9	48.6	31.0	40.9	31.4	36.0	21.8
HC78-676	53.6	40.9	24.6	39.0	43.8	34.6	55.6	37.2
HC79-478	54.5	38.4	30.8	38.5	48.2	28.6	41.6	27.4
HW79015	48.2	39.4	42.5	38.2	43.6	33.9	40.8	33.5
HW8033	51.8	43.2	49.9	37.9	42.7	34.4	50.4	26.5
HW8067	52.6	42.1	42.8	40.4	46.5	32.2	39.2	34.4
HW8130	49.5	37.7	40.6	39.8	39.0	32.4	54.0	18.5
L79-3910	44.0	37.6	34.5	37.3	40.0	29.3	49.2	31.0
L80-4323	48.1	42.4	44.6	36.3	45.5	30.3	54.0	26.4
L80-4349	43.7	43.8	47.6	36.0	47.0	29.6	48.4	15.2
U-75633	45.3	35.1	35.6	36.3	44.4	36.1	42.4	35.6
U-76360	57.5	35.8	44.5	31.8	34.7	29.0	41.5	36.7
C.V. (%)	4.5	9.68	10.2	10.6	19.3	13.7	21.0	15.4
L.S.D. (5%)	3.5	7.76	7.2	6.6	N.S.	N.S.	N.S.	6.6
Row sp. (in.)	30	30	15	30	30	30	24	30
Rows/plot	4	4	5	4	4	4	4	4
Reps	3	3	3	3	3	3	3	3

UNIFORM TEST III, 1983

Strain	Mean 22 Tests	Iowa Ottumwa	Iowa Stuart	Illinois Eldorado	Illinois Girard	Illinois Pontiac	Ind. Urbana	Ind. Lafayette
			YIELD RANK					
Century (II)	26	26	17	29	26	29	14	24
Cumberland (III)	14	12	13	14	18	14	4	19
Cumberland BC	7	22	2	10	3	21	3	1
Fayette	28	14	22	28	15	28	24	17
Hobbit	20	15	5	4	4	23	11	5
Pella	10	5	12	15	6	10	8	25
Sparks (IV)	7	3	15	20	22	16	20	14
Williams 82	12	4	19	9	8	4	19	10
William BC$_6$	21	25	21	13	23	3	27	20
A79-336014	1	1	4	11	1	6	17	4
A80-344003	12	11	11	12	18	5	11	12
A80-346029	16	9	9	25	11	2	24	16
A81-257013	21	19	27	25	25	17	28	29
A81-354025	6	18	28	19	20	24	15	26
HC74-634RE	3	2	3	3	21	12	7	6
HC78-279	15	22	24	8	14	8	10	2
HC78-349	26	26	22	15	27	19	24	11
HC78-353	29	17	29	4	28	26	11	13
HC78-676	5	16	7	1	5	7	29	23
HC79-478	24	8	10	2	13	25	16	9
HW79015	9	6	8	7	9	11	2	14
HW8033	4	6	6	22	11	8	1	3
HW8067	2	13	1	6	2	28	6	7
HW8130	21	29	15	18	7	15	17	26
L79-3910	25	28	26	23	17	13	22	22
L80-4323	11	21	24	27	16	1	9	8
L80-4349	19	22	17	24	24	17	23	21
U-75633	18	9	14	21	9	20	21	28
U-76360	17	20	20	15	29	27	5	18

UNIFORM TEST III, 1983

Strain	Indiana			Kansas			KY	MD
	Green-field	Bluff-ton	Sulli-van	Man-hattan	Pow-hattan	Ross-ville	Lexing-ton[1]	Queens-town
	YIELD RANK							
Century (II)	2	6	29	7	23	10	28	24
Cumberland (III)	6	9	25	3	15	24	25	22
Cumberland BC	25	14	23	11	8	8	23	21
Fayette	5	4	19	28	18	23	21	13
Hobbit	27	12	28	20	8	12	9	11
Pella	18	21	11	19	21	4	11	3
Sparks (IV)	20	3	17	1	6	2	4	2
Williams 82	13	24	10	15	11	11	2	1
William BC	1	16	24	23	11	13	13	22
A79-336014[6]	4	6	15	17	2	7	19	8
A80-344003	14	26	8	28	23	3	20	9
A80-346029	24	18	7	16	15	20	10	4
A81-257013	29	14	5	17	8	8	16	17
A81-354025	6	12	1	8	5	15	18	16
HC74-634RE	16	2	18	12	3	22	11	5
HC78-279	6	19	13	22	26	27	6	28
HC78-349	3	22	27	27	28	28	8	27
HC78-353	21	23	22	25	19	29	1	29
HC78-676	9	28	2	2	7	1	6	19
HC79-478	10	29	26	6	27	26	3	25
HW79015	17	27	3	14	11	16	27	14
HW8033	12	1	20	5	11	25	24	10
HW8067	15	8	4	10	17	5	21	17
HW8130	22	11	21	13	23	13	29	26
L79-3910	26	17	16	24	3	6	13	7
L80-4323	23	5	6	21	20	18	17	19
L80-4349	28	9	12	4	22	17	4	12
U-75633	19	20	14	26	1	19	15	15
U-76360	10	25	9	9	29	21	25	6

[1] Data not included in the mean

UNIFORM TEST III, 1983

Neb.	N.J.	Ohio				Penn.	S.D.
Mead	Adelphia	Hoytville	Ripley	S. Charleston	Wooster	Landisville	Elk Point
			YIELD RANK				
3	15	11	28	8	8	29	14
18	18	24	6	5	7	26	18
21	22	3	1	10	19	6	23
29	3	22	9	14	29	13	29
16	29	17	7	27	16	27	21
11	20	15	20	8	3	20	9
26	25	10	3	15	5	3	27
28	20	12	4	1	17	11	26
19	26	8	15	21	27	23	24
14	2	9	13	11	11	22	12
25	7	18	17	19	2	24	7
15	13	6	2	28	28	17	18
21	4	4	26	15	18	16	11
9	12	23	20	12	13	1	10
7	9	18	12	3	21	12	6
10	9	7	11	25	10	14	12
20	16	12	5	24	23	9	20
27	1	2	29	21	15	28	22
4	13	29	14	15	4	2	1
2	19	28	16	2	26	17	15
12	17	21	18	18	9	21	5
6	6	1	19	19	6	7	16
5	9	18	8	5	13	25	4
8	23	25	10	26	12	4	25
23	24	27	22	23	24	8	7
13	7	14	23	7	20	4	17
24	5	5	25	4	22	10	28
16	28	26	27	13	1	15	3
1	26	15	23	29	25	19	2

UNIFORM TEST III, 1983

Strain	Mean 19 Tests	Iowa		Illinois				Ind.
		Ottumwa	Stuart	Eldorado	Girard	Pontiac	Urbana	Lafayette
			MATURITY (date)					
Century (II)	-7.9		-11	-8	-13	-12	-12	-5
Cumberland (III)	9-23.9		9-22	9-10	9-18	10-2	10-1	9-18
Cumberland BC	+0.7		+3	+1	+2	-1	-1	+2
Fayette	+1.3		+4	+1	+1	+1	-2	0
Hobbit	+0.1		+3	+1	-2	-2	0	+3
Pella	-3.0		-4	-1	-7	-4	-5	-2
Sparks (IV)	+3.7		+4	+3	+1	+2	+3	+4
Williams 82	+1.7		+4	+1	+1	+3	-3	+1
William BC	+0.3		+3	+2	-1	0	-3	0
A79-336014[6]	-0.9		-1	0	-2	0	-5	0
A80-344003	-2.1		0	0	-5	0	-7	-1
A80-346029	-0.3		-1	0	-1	+3	-5	-1
A81-257013	-3.3		-2	-2	-6	-2	-11	-2
A81-354025	-0.8		-2	0	-2	-1	-3	-2
HC74-634RE	+1.3		+4	+2	+1	-1	-2	+2
HC78-279	+3.6		+4	+5	+6	+3	+1	+4
HC78-349	+3.2		+4	+5	+5	+3	-1	+3
HC78-353	+4.2		+4	+7	+8	+3	+2	+4
HC78-676	-0.6		0	+2	-3	0	-6	+1
HC79-478	-3.0		-2	+1	-5	-6	-6	-1
HW79015	-3.9		-6	-4	-8	-5	-7	-6
HW8033	-3.5		-6	-2	-8	-2	-6	-2
HW8067	-0.8		0	-1	-3	-2	0	-1
HW8130	-5.3		-7	-2	-9	-9	-11	-3
L79-3910	-3.8		-4	-8	-7	-3	-8	-3
L80-4323	-1.3		-2	-2	0	0	-5	0
L80-4349	+1.4		+3	+2	0	+2	-2	0
U-75633	-4.2		-6	-3	-9	-4	-8	-3
U-76360	-5.8		-7	-6	-13	-8	-8	-3
Date Planted	5-25	5-11	5-10	6-1	5-27	5-31	5-30	5-11
Days to Mature	122		135	101	114	124	124	130

UNIFORM TEST III, 1983

Indiana			Kansas			Kentucky	Maryland
Greenfield	Bluffton	Sullivan	Manhattan	Powhattan	Rossville	Lexington[1]	Queenstown
			MATURITY (date)				
-4	-6	-15	-7			-1	-4
9-25	9-24	10-5	9-20			F	9-21
+1	0	-1	+1			F	+2
+1	+2	-1	0			F	0
+2	0	-8	-1			F	+6
-3	-5	-6	-1			-4	+2
+2	+3	+3	+2			F	+10
0	+2	-1	+2			F	+5
0	0	-4	-1			-1	+1
0	+1	-5	-1			F	+3
-2	-3	-6	-5			F	0
-1	0	0	-2			F	+5
-5	-3	-5	-1			F	-2
-1	+1	0	+1			F	+1
+2	0	0	+5			F	+4
+3	+1	+1	+7			-1	+10
+3	+1	-1	+7			F	+8
+3	+2	0	+8			F	+10
0	-2	-3	+6			F	+4
-4	-5	-11	+3			F	+1
-2	-3	-4	0			-1	-2
-3	-5	-1	-1			-1	-2
0	-2	-1	+2			-1	0
-4	-8	-8	-1			-8	-3
-6	-4	-6	-4			-1	0
-4	-1	-4	-4			F	+1
+1	+2	0	+2			-1	+1
-3	-6	-8	-2			-4	0
-6	-5	-8	-5			-4	-1
5-30	6-2	6-14	5-9	5-28	5-24	5-28	6-8
118	114	113	134				105

[1] Data not included in the mean

UNIFORM TEST III, 1983

Strain	Neb. Mead	N.J. Adel-phia	Ohio Hoyt-ville	Ohio Rip-ley	Ohio S. Charleston	Ohio Wooster	Penn. Landis-ville	S.D. Elk Point
			MATURITY (date)					
Century (II)	-6	-4	-7	-7	-8	-9	0	-13
Cumberland (III)	9-19	9-26	9-25	9-16	9-17	9-18	10-7	10-11
Cumberland BC	0	+1	+3	0	+1	-1	0	+1
Fayette	+4	+7	+3	+2	+4	0	-5	+2
Hobbit	0	+4	+1	-1	+1	-3	0	-3
Pella	-1	-3	-4	-3	-3	-6	0	-1
Sparks (IV)	+5	+6	+5	+6	+5	+3	0	+4
Williams 82	+2	+4	+3	+6	+5	+3	0	+1
William BC[6]	+4	+4	+1	-1	0	+1	0	-1
A79-336014	0	0	-2	-1	-1	-4	0	+1
A80-344003	0	-2	-2	0	-1	-3	-5	0
A80-346029	0	0	0	+1	0	-3	0	0
A80-257013	-1	0	-3	-1	-2	-6	-5	-3
A81-354025	0	0	-2	-1	+1	0	-5	0
HC74-634RE	+2	+5	+2	+1	+3	-3	0	-2
HC78-279	+6	+7	+5	+2	+5	-1	0	-1
HC78-349	+6	+8	+4	+1	+5	-1	0	0
HC78-353	+6	+10	+5	+2	+6	0	0	0
HC78-676	0	+1	0	-2	0	-7	0	-3
HC79-478	-1	-2	-3	-6	-1	-7	0	-3
HW79015	-3	-3	-6	-3	-6	-6	0	-1
HW8033	-3	-3	-5	-3	-6	-8	0	0
HW8067	-1	0	+1	-1	-2	-4	0	0
HW8130	-5	-4	-8	-2	-7	-7	0	-2
L79-3910	0	-1	-4	-3	-4	-5	0	-3
L80-4323	0	+2	-2	-2	-2	0	0	0
L80-4349	+2	+3	+4	+3	+2	+1	0	+1
U-75633	-2	-4	-4	-3	-5	-6	0	-3
U-76360	-3	-4	-4	-7	-9	-9	0	-4
Date Planted	5-24	6-3	6-1	5-14	5-13	5-10	5-26	5-31
Days to Mature	118	115	116	125	127	131	134	133

UNIFORM TEST III, 1983

Strain	Mean 22 Tests	Iowa		Illinois				Ind.
		Ottumwa	Stuart	Eldorado	Girard	Pontiac	Urbana	Lafayette
		LODGING (score)						
Century (II)	1.2	1.2	1.1	1.0	1.1	1.8	1.0	1.0
Cumberland (III)	1.5	1.4	1.2	1.7	1.5	2.3	1.3	1.0
Cumberland BC	1.7	1.3	1.4	2.6	1.6	2.2	1.3	1.2
Fayette	1.6	1.5	1.7	2.1	1.3	1.8	1.3	1.0
Hobbit	1.1	1.0	1.0	1.0	1.0	1.5	1.0	1.0
Pella	1.3	1.3	1.1	1.1	1.1	2.0	1.1	1.0
Sparks (IV)	2.3	2.2	1.9	4.0	1.6	2.3	1.8	1.7
Williams 82	1.5	1.4	1.3	2.7	1.3	2.2	1.2	1.0
William BC	1.5	1.2	1.4	1.7	1.3	2.2	1.1	1.0
A79-336014[6]	1.2	1.2	1.2	1.0	1.1	1.7	1.1	1.0
A80-344003	1.2	1.1	1.1	1.1	1.0	1.5	1.1	1.0
A80-346029	1.3	1.1	1.0	1.1	1.1	2.5	1.0	1.0
A81-257013	2.0	1.9	1.6	4.0	1.9	3.0	1.4	1.7
A81-354025	1.4	1.3	1.3	1.5	1.2	2.0	1.2	1.0
HC74-634RE	1.2	1.3	1.1	1.2	1.1	2.3	1.2	1.0
HC78-279	1.2	1.5	1.1	1.0	1.1	2.0	1.1	1.0
HC78-349	1.2	1.1	1.0	1.0	1.2	1.8	1.0	1.0
HC78-353	1.1	1.2	1.1	1.0	1.2	1.5	1.1	1.0
HC78-676	1.3	1.7	1.1	1.3	1.2	2.2	1.1	1.2
HC79-478	1.3	1.1	1.1	1.0	1.2	1.7	1.1	1.2
HW79015	1.4	1.2	1.1	1.1	1.2	2.0	1.2	1.0
HW8033	1.3	1.2	1.2	1.0	1.1	2.0	1.2	1.0
HW8067	1.5	1.3	1.2	1.8	1.5	2.0	1.5	1.0
HW8130	1.4	1.1	1.1	1.4	1.3	2.0	1.1	1.0
L79-3910	1.9	1.7	1.4	2.9	1.7	2.7	2.1	1.5
L80-4323	1.2	1.2	1.2	1.2	1.1	1.8	1.0	1.0
L80-4349	1.3	1.2	1.3	1.2	1.2	1.7	1.1	1.0
U-75633	1.9	1.3	1.4	4.0	1.8	3.0	1.2	1.8
U-76360	1.3	1.5	1.2	1.3	1.3	2.5	1.2	1.0

UNIFORM TEST III, 1983

Strain	Indiana			Kansas			KY	MD
	Green-field	Bluff-ton	Sulli-van	Man-hattan	Pow-hattan	Ross-ville	Lexing-ton[1]	Queens-town
	LODGING (score)							
Century (II)	1.2	1.0	2.5	1.2	1.0	1.0	1.0	1.5
Cumberland (III)	1.7	1.0	3.8	1.8	1.0	2.0	1.0	2.0
Cumberland BC	2.0	1.2	3.3	2.3	1.0	2.0	1.0	2.0
Fayette	2.0	1.2	2.3	2.3	1.0	2.0	1.0	2.2
Hobbit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.2
Pella	1.5	1.0	1.3	1.7	1.0	2.0	1.0	2.2
Sparks (IV)	3.5	1.3	4.3	2.8	1.0	2.7	1.0	2.7
Williams 82	2.2	1.2	2.0	2.2	1.0	2.0	1.0	2.2
William BC$_6$	2.0	1.0	3.8	1.5	1.0	2.0	1.0	1.8
A79-336014	1.5	1.0	2.0	1.3	1.0	1.3	1.0	1.8
A80-344003	1.0	1.0	1.3	1.3	1.0	2.7	1.0	1.3
A80-346029	1.2	1.0	1.3	2.0	1.0	3.0	1.0	1.5
A81-257013	2.3	1.2	3.0	1.3	1.0	2.7	1.0	2.2
A81-354025	1.3	1.0	1.8	2.0	1.0	2.0	1.0	2.0
HC74-634RE	1.0	1.0	1.0	1.2	1.0	1.0	1.0	1.2
HC78-279	1.0	1.0	1.0	1.7	1.0	1.0	1.0	1.2
HC78-349	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.2
HC78-353	1.0	1.0	1.0	1.2	1.0	1.0	1.0	1.0
HC78-676	1.0	1.0	1.0	1.8	1.0	1.0	1.0	1.2
HC79-478	1.0	1.0	1.0	1.8	1.0	1.0	1.0	1.2
HW79015	1.3	1.0	1.8	2.2	1.0	2.0	1.0	2.0
HW8033	1.5	1.0	1.8	1.8	1.0	1.0	1.0	1.7
HW8067	1.5	1.0	2.5	2.2	1.0	3.0	1.0	1.8
HW8130	1.2	1.0	1.8	1.8	1.0	2.0	1.0	1.8
L79-3910	1.5	1.0	4.3	2.5	1.0	2.0	1.0	2.5
L80-4323	1.3	1.0	1.5	1.3	1.0	1.3	1.0	2.0
L80-4349	1.2	1.0	1.5	2.0	1.0	2.0	1.0	2.0
U-75633	2.3	1.0	4.0	2.8	1.0	3.0	1.0	2.3
U-76360	1.2	1.0	3.0	1.3	1.0	1.0	1.0	1.5

[1] Data not included in the mean

UNIFORM TEST III, 1983

Neb.	N.J.	Ohio				Penn.	S.D.
Mead	Adelphia	Hoytville	Ripley	S. Charleston	Wooster	Landisville	Elk Point
			LODGING (score)				
1.0	1.0	1.3	1.0	1.3	1.2	1.0	1.0
1.0	1.0	1.4	1.0	1.2	1.2	1.0	1.0
1.0	1.3	2.3	1.0	1.5	1.2	2.0	1.0
1.2	1.7	2.2	1.0	1.3	1.1	2.0	1.0
1.0	1.0	1.3	1.0	1.3	1.0	1.0	1.0
1.0	1.3	1.6	1.0	1.3	1.3	1.0	1.0
1.3	3.3	2.8	1.3	2.7	1.4	2.0	1.0
1.2	1.0	1.7	1.0	1.3	1.2	1.0	1.0
1.0	2.0	1.9	1.0	1.7	1.2	1.0	1.0
1.0	1.0	1.3	1.0	1.2	1.1	1.0	1.0
1.0	1.0	1.2	1.0	1.2	1.3	1.0	1.0
1.0	1.0	1.2	1.0	1.3	1.1	1.0	1.0
1.0	3.0	2.6	1.3	3.0	1.2	2.0	1.0
1.0	1.3	1.5	1.0	1.3	1.4	1.0	1.0
1.0	2.3	1.2	1.0	1.5	1.1	1.0	1.0
1.0	1.7	1.3	1.0	1.0	1.1	2.0	1.0
1.0	1.7	1.2	1.0	1.3	1.1	2.0	1.0
1.0	1.7	1.2	1.0	1.2	1.1	1.0	1.0
1.0	1.7	1.2	1.0	2.0	1.5	2.0	1.0
1.0	1.7	1.2	1.3	1.8	1.1	2.0	1.0
1.0	1.0	1.8	1.0	1.2	1.3	2.0	1.0
1.0	1.3	1.5	1.0	1.2	1.2	2.0	1.0
1.0	1.7	1.3	1.0	1.0	1.2	1.0	1.0
1.0	1.3	1.4	1.5	1.5	1.2	2.0	1.0
1.3	2.7	1.5	1.3	2.5	1.4	2.0	1.0
1.0	1.0	1.6	1.0	1.2	1.2	1.0	1.0
1.0	1.3	2.1	1.0	1.5	1.1	1.0	1.0
1.2	1.0	1.5	1.0	2.5	1.3	2.0	1.0
1.0	1.0	1.4	1.0	1.2	1.1	1.0	1.0

UNIFORM TEST III, 1983

Strain	Mean 22 Tests	Iowa		Illinois				Ind.
		Ottumwa	Stuart	Eldorado	Girard	Pontiac	Urbana	Lafayette
		PLANT HEIGHT (inches)						
Century (II)	29	22	30	27	28	31	26	31
Cumberland (III)	33	29	38	35	34	35	33	37
Cumberland BC	33	28	35	33	34	32	35	36
Fayette	37	32	40	37	38	37	36	38
Hobbit	21	19	21	20	18	25	18	22
Pella	34	28	36	34	34	38	33	35
Sparks (IV)	39	32	41	43	40	42	40	39
Williams 82	36	32	40	40	38	40	35	36
William BC	32	27	35	34	34	38	32	33
A79-336014[6]	30	27	33	32	32	33	29	32
A80-344003	29	25	33	30	29	31	29	31
A80-346029	28	22	32	28	30	33	26	29
A81-257013	37	34	43	43	41	38	39	39
A81-354025	35	30	39	38	36	37	36	38
HC79-634RE	22	21	28	23	19	27	20	25
HC78-279	20	18	19	18	17	23	19	22
HC78-349	19	18	19	17	16	21	16	21
HC78-353	19	18	18	20	16	23	18	21
HC78-676	24	22	22	25	22	29	19	25
HC79-478	22	20	22	24	19	26	19	27
HW79015	33	24	34	34	34	38	33	34
HW8033	32	26	33	30	33	33	35	35
HW8067	30	24	34	33	32	33	30	32
HW8130	30	22	30	30	30	35	28	29
L79-3910	35	28	38	37	37	41	34	37
L80-4323	33	27	36	31	33	39	32	35
L80-4349	33	29	38	34	33	38	32	37
U-75633	36	28	37	40	37	44	34	41
U-76360	32	24	32	31	33	37	33	33

UNIFORM TEST III, 1983

Indiana			Kansas				Maryland
Greenfield	Bluffton	Sullivan	Manhattan	Powhattan	Rossville	Lexington[1]	Queenstown
PLANT HEIGHT (inches)							
35	31	33	32	17	35	20	24
40	34	38	33	21	40	19	29
34	35	35	34	25	41	19	29
42	39	44	40	26	45	20	33
19	21	19	21	17	22	18	17
38	33	42	36	23	43	23	29
44	42	45	38	27	45	25	35
41	35	41	39	24	45	20	33
37	35	36	35	22	41	19	26
36	29	35	33	20	40	17	24
33	27	36	32	20	42	18	24
32	28	30	33	19	41	18	24
40	40	46	33	26	47	22	33
38	36	44	38	25	47	20	30
23	25	16	21	19	23	18	20
20	21	13	24	16	21	20	17
20	20	14	21	16	20	19	15
19	19	15	21	16	18	20	13
28	18	22	29	19	23	20	20
25	17	20	25	20	21	22	18
38	34	39	36	22	40	19	29
35	33	35	34	23	36	20	27
32	29	34	31	21	40	17	27
35	29	36	31	20	41	20	25
37	35	37	36	22	43	20	32
32	33	37	35	21	40	18	30
35	31	42	39	22	41	21	31
39	35	43	39	23	41	20	34
35	31	39	36	20	36	20	29

[1] Data not included in the mean

UNIFORM TEST III, 1983

Strain	Neb.	N.J.	Ohio				Penn.	S.D.
	Mead	Adel-phia	Hoyt-ville	Rip-ley	S. Charleston	Wooster	Landis-ville	Elk Point
			PLANT HEIGHT (inches)					
Century (II)	34	27	35	24	35	29	25	26
Cumberland (III)	42	31	35	26	36	28	25	31
Cumberland BC	36	31	42	26	34	31	26	30
Fayette	46	35	39	30	39	29	28	34
Hobbit	21	20	24	21	30	22	22	18
Pella	40	33	33	23	38	36	27	31
Sparks (IV)	46	39	40	36	39	37	32	37
Williams 82	45	31	39	29	38	30	27	28
William BC	41	31	38	27	35	25	24	27
A79-336014[6]	35	27	33	25	34	25	23	27
A80-344003	37	27	30	25	29	28	22	29
A80-346029	33	24	30	24	29	24	21	27
A81-257013	46	38	38	33	41	31	29	34
A81-354025	45	35	37	28	40	30	29	31
HC74-634RE	21	23	27	23	27	21	22	19
HC78-279	21	20	23	21	24	21	21	20
HC78-349	20	20	22	20	26	19	21	16
HC78-353	21	21	22	18	25	19	20	18
HC78-676	27	23	22	24	31	22	26	19
HC79-478	24	22	22	22	28	20	23	14
HW79015	39	28	37	27	38	30	26	29
HW8033	38	31	37	26	35	29	26	30
HW8067	39	27	30	24	34	25	22	28
HW8130	34	28	33	27	36	29	25	26
L79-3910	48	32	33	30	40	31	28	28
L80-4323	40	31	37	26	39	26	27	31
L80-4349	41	33	39	26	37	25	24	27
U-75633	44	27	34	30	41	37	30	35
U-76360	40	26	37	27	34	27	24	32

UNIFORM TEST III, 1983

Strain	Mean 22 Tests	Iowa		Illinois				Ind.
		Ottumwa	Stuart	Eldorado	Girard	Pontiac	Urbana	Lafayette
		SEED QUALITY (score)						
Century (II)	2.9		2.0	4.3	3.5	2.1	2.6	2.0
Cumberland (III)	2.4		1.9	4.0	3.3	1.7	2.5	1.0
Cumberland BC	2.4		2.0	3.7	3.2	2.0	2.5	1.0
Fayette	2.1		2.0	3.7	2.7	1.6	2.5	1.5
Hobbit	2.2		2.1	3.3	2.8	1.3	2.3	1.0
Pella	2.5		1.9	3.7	2.7	2.0	2.3	1.5
Sparks (IV)	2.5		1.7	3.5	3.0	1.8	2.0	1.5
Williams 82	2.0		1.5	3.2	2.2	1.1	2.2	1.5
William BC_6	2.2		1.5	3.2	2.3	1.3	2.0	1.0
A79-336014	2.3		1.9	3.5	2.5	1.8	2.2	1.0
A80-344003	2.7		2.0	3.7	2.8	1.7	2.2	2.0
A80-346029	2.7		1.9	3.2	3.2	1.5	2.2	1.5
A81-257013	2.9		1.9	3.2	3.2	1.5	2.2	1.5
A81-354025	2.6		1.9	4.8	4.8	1.4	3.0	1.5
HC74-634RE	2.0		1.9	3.3	3.3	1.3	2.5	1.0
HC78-279	2.3		1.6	3.5	2.8	1.3	2.0	1.5
HC78-349	2.3		1.9	3.5	3.0	1.5	2.0	1.0
HC78-353	2.1		1.6	3.5	2.7	1.8	2.0	1.5
HC78-676	2.6		2.1	3.5	2.8	2.0	2.5	2.0
HC78-478	2.4		1.9	3.3	3.2	1.5	2.2	1.5
HW79015	2.6		1.6	3.7	3.3	1.3	3.0	1.5
HW8033	2.8		2.1	3.8	3.7	1.4	3.0	1.5
HW8067	2.4		1.9	3.7	2.7	1.3	2.2	1.5
HW8130	3.0		2.0	4.5	3.5	1.8	3.2	2.0
L79-3910	2.2		1.5	4.2	2.7	1.3	2.3	1.0
L80-4323	2.1		1.5	3.7	2.7	1.4	2.3	1.0
L80-4349	2.2		1.6	3.5	3.0	1.3	2.2	1.5
U-75633	2.8		2.0	4.0	3.5	2.0	2.3	1.5
U-76360	2.6		2.0	3.7	3.5	1.7	2.5	1.5

UNIFORM TEST III, 1983

Strain	Indiana			Kansas			KY	MD
	Green-field	Bluff-ton	Sulli-van	Man-hattan	Pow-hattan	Ross-ville	Lexing-ton[1]	Queens-town
	SEED QUALITY (score)							
Century	2.5	1.5	4.0	5.0	3.5	4.0	5.0	4.2
Cumberland (III)	2.0	1.0	3.5	3.0	3.0	2.0	3.0	2.8
Cumberland BC	1.5	1.5	3.5	4.0	3.0	2.5	4.0	2.8
Fayette	1.5	1.5	3.5	2.0	2.0	1.5	3.0	2.7
Hobbit	1.5	1.5	3.5	2.0	1.5	1.5	4.0	2.7
Pella	2.5	1.0	4.0	2.0	2.5	4.5	4.0	3.0
Sparks (IV)	2.5	1.5	3.5	2.0	2.0	2.5	5.0	3.0
Williams 82	1.5	1.0	3.0	3.0	1.5	1.0	4.0	1.8
William BC[6]	2.0	1.0	3.5	3.0	3.0	2.0	4.0	2.3
A79-336014	1.5	1.5	4.0	2.0	4.0	2.0	5.0	2.7
A80-344003	2.0	1.5	4.0	3.0	2.5	5.0	5.0	3.5
A80-346029	3.0	1.5	2.5	4.0	4.0	3.5	5.0	3.2
A81-257013	3.5	1.0	4.0	2.0	5.0	3.0	5.0	3.5
A81-354025	3.5	1.5	3.5	3.0	3.0	2.5	5.0	2.8
HC74-634RE	2.0	1.5	2.0	1.0	2.0	1.0	4.0	2.2
HC78-279	2.5	1.0	3.0	3.0	1.5	2.5	4.0	3.0
HC78-349	2.5	1.0	3.5	2.0	2.0	3.5	4.0	2.7
HC78-353	1.5	1.0	3.0	3.0	1.5	3.5	3.0	2.5
HC78-676	3.0	1.5	3.0	4.0	1.5	4.0	3.0	3.5
HC79-478	3.5	1.0	4.0	2.0	2.5	3.0	3.0	3.3
HW79015	3.0	1.5	4.0	3.0	2.5	3.0	5.0	2.8
HW8033	3.0	1.5	4.0	4.0	3.5	3.5	5.0	3.5
HW8067	1.5	1.5	3.5	4.0	2.5	3.0	5.0	3.0
HW8130	2.5	1.5	4.0	5.0	2.5	4.0	5.0	4.0
L79-3910	4.0	1.5	3.0	3.0	1.5	1.5	3.0	2.8
L80-4323	3.5	1.0	3.5	3.0	1.0	1.0	3.0	2.5
L80-4349	3.0	1.5	3.0	2.0	2.5	1.0	4.0	2.5
U-75633	4.5	2.0	3.5	3.0	1.5	1.5	4.0	4.0
U-76360	4.0	2.5	3.5	4.0	4.5	1.0	4.0	3.3

UNIFORM TEST III, 1983

Neb.	N.J.	Ohio				Penn.	S.D.
Mead	Adelphia	Hoytville	Ripley	S. Charleston	Wooster	Landisville	Elk Point
			SEED QUALITY (score)				
1.3	2.3	1.6	1.5	2.0	1.4	3.0	4.0
1.3	2.0	1.6	1.5	2.0	1.2	3.5	4.0
1.3	1.7	1.8	1.5	2.0	1.2	2.5	4.0
1.0	1.7	1.5	1.5	2.0	1.2	2.5	4.0
1.0	2.7	2.0	1.5	2.0	1.5	3.0	4.0
1.2	2.3	1.3	1.5	2.5	1.4	3.0	4.0
1.2	2.3	2.0	2.0	2.5	1.4	2.5	5.0
1.0	2.0	1.4	1.0	1.5	1.1	2.5	4.0
1.0	2.0	1.2	1.5	2.0	1.3	2.5	4.0
1.0	1.3	1.3	1.5	2.0	1.5	2.5	4.0
1.0	2.0	1.2	2.5	2.5	1.4	3.0	4.0
1.0	1.7	1.4	3.0	2.5	1.7	3.0	4.0
1.5	2.0	1.7	3.5	2.0	1.5	3.0	4.0
1.2	1.7	2.3	2.0	2.0	1.8	2.5	4.0
1.0	2.0	1.8	2.0	1.0	1.6	2.5	4.0
1.3	2.7	1.5	1.5	2.0	1.1	2.5	4.0
1.0	3.0	1.3	1.5	1.5	1.2	2.0	4.0
1.2	1.7	1.7	1.5	1.5	1.4	2.0	4.0
1.2	3.7	1.5	2.0	2.0	1.5	3.0	3.0
1.2	3.7	1.8	1.5	1.5	1.7	3.0	3.0
1.7	2.7	1.6	1.5	1.5	1.5	3.5	3.0
1.5	2.3	1.7	2.0	2.0	1.4	4.0	3.0
1.0	2.3	1.3	1.5	1.5	1.5	3.0	3.0
2.0	2.3	2.2	3.0	2.5	1.7	3.0	4.0
1.0	1.7	1.3	1.5	1.0	1.6	2.0	4.0
1.0	2.0	1.6	2.0	1.0	1.3	2.0	4.0
1.0	1.3	1.4	2.0	1.5	1.4	3.0	4.0
1.3	3.7	1.5	3.5	2.5	1.5	3.5	4.0
1.2	3.0	1.3	2.0	1.0	1.6	3.0	3.0

UNIFORM TEST III, 1983

Strain	Mean 21 Tests	Iowa		Illinois				Ind.
		Ottumwa	Stuart	Eldorado	Girard	Pontiac	Urbana	Lafayette
		SEED SIZE (g/100)						
Century	16.4	16.0	11.2	12.4	18.6	17.1	19.4	
Cumberland (III)	16.4	16.8	11.4	12.1	19.6	16.2	18.1	
Cumberland BC	17.8	19.1	13.0	14.7	21.1	17.6	20.4	
Fayette	14.8	13.8	10.3	12.0	19.0	13.5	18.0	
Hobbit	14.2	14.2	11.5	12.2	16.0	13.5	15.2	
Pella	17.2	17.4	11.9	13.1	20.1	17.5	18.7	
Sparks (IV)	15.5	15.8	11.3	12.5	19.2	13.2	16.6	
Williams 82	15.3	15.2	11.5	11.7	18.3	14.6	16.9	
William BC$_6$	16.5	17.2	13.6	12.0	19.8	16.3	19.3	
A79-336014	18.2	19.4	13.5	14.2	22.6	17.6	20.9	
A80-344003	14.9	15.5	11.5	12.5	18.5	14.8	16.9	
A80-346029	14.8	14.5	10.3	11.4	18.2	12.8	16.9	
A81-257013	16.3	15.6	12.0	12.5	19.3	16.1	17.0	
A81-354025	15.7	15.8	11.0	12.8	18.4	15.3	17.6	
HC74-634RE	16.7	16.6	14.2	12.8	19.1	15.5	18.1	
HC78-279	16.8	14.8	14.5	15.1	18.4	15.4	17.9	
HC78-349	16.2	15.4	14.5	13.7	18.1	13.6	17.3	
HC78-353	16.2	16.3	14.6	14.1	18.5	14.5	17.5	
HC78-676	14.8	14.5	11.8	11.6	16.6	12.5	15.9	
HC79-478	13.9	14.4	11.0	10.9	15.9	13.8	15.0	
HW79015	16.0	16.6	11.5	12.3	18.3	16.0	19.3	
HW8033	17.7	18.4	12.5	13.7	21.3	18.9	21.7	
HW8067	14.3	15.8	10.0	10.5	16.7	13.7	14.6	
HW8130	16.3	16.0	12.5	13.5	18.6	16.5	18.3	
L79-3910	15.2	14.4	10.5	11.7	18.1	14.9	17.3	
L80-4323	15.2	13.8	10.5	12.6	18.6	14.8	18.0	
L80-4349	15.4	14.2	11.8	12.7	18.7	14.3	17.7	
U-75633	16.3	14.8	12.0	12.5	19.4	16.3	18.3	
U-76360	15.2	14.2	10.9	10.5	16.7	16.3	17.4	

UNFIROM TEST III, 1983

Indiana			Kansas			Kentucky[1]	Maryland
Greenfield	Bluffton	Sullivan	Manhattan	Powhattan	Rossville	Lexington	Queenstown
			SEED SIZE (g/100)				
20.9	16.0	17.1	16.4	13.1	19.0	10.2	17.6
20.4	17.1	17.9	15.4	12.5	19.3	10.3	18.6
21.2	16.6	18.5	17.3	14.4	19.8	11.6	19.5
18.2	14.3	15.6	13.8	12.3	16.5	11.1	16.7
16.7	12.1	16.8	15.5	11.6	17.6	11.9	16.7
20.5	14.7	17.8	15.6	13.6	22.1	15.4	20.9
21.0	13.4	16.6	13.7	12.1	18.1	9.1	19.9
19.3	13.3	15.8	14.4	12.6	17.9	10.6	19.3
21.2	14.7	17.4	15.1	13.2	18.6	11.1	19.0
22.5	16.8	17.8	19.8	14.2	21.1	11.6	22.4
18.1	13.0	16.5	14.6	12.0	18.3	11.8	17.9
16.5	13.9	17.6	14.5	13.5	18.2	12.5	19.2
18.2	13.6	18.9	19.8	12.9	19.7	9.8	18.7
18.9	14.4	15.6	15.6	12.5	18.5	10.4	18.5
21.4	16.2	19.2	17.2	13.1	20.9	11.8	19.4
19.7	13.6	20.3	24.0	12.4	19.7	12.1	20.2
19.1	12.2	18.1	17.3	13.2	19.7	12.4	19.3
19.8	13.4	22.0	12.2	12.9	20.2	11.1	19.7
16.9	13.5	17.2	17.0	12.2	17.9	11.6	18.0
15.8	12.4	13.8	15.8	11.3	17.3	10.1	15.3
18.6	15.1	17.8	14.7	13.7	19.7	13.1	17.5
21.0	15.1	19.6	19.1	13.9	21.5	12.6	20.8
17.3	12.7	16.8	15.7	11.0	18.2	11.2	15.8
19.4	14.3	17.1	17.1	13.8	20.3	9.4	19.2
19.7	13.1	16.8	13.0	11.3	17.7	10.2	19.0
18.8	12.7	16.7	14.9	12.1	16.1	10.8	19.6
18.9	13.6	16.5	15.0	11.7	15.9	13.2	17.0
20.8	16.0	16.9	17.0	12.5	19.5	13.3	17.6
19.8	12.3	17.6	15.0	11.1	18.5	9.3	16.4

[1] Data not included in the mean

UNIFORM TEST III, 1983

Strain	Neb.	N.J.	Ohio				Penn.	S.D.
	Mead	Adel-phia	Hoyt-ville	Rip-ley	S. Charleston	Wooster	Landis-ville	Elk Point
			SEED SIZE (g/100)					
Century (II)	17.7	20.0	15.6	13.3	13.9	14.9	20.6	13.9
Cumberland (III)	15.4	19.0	15.9	17.1	14.4	14.9	20.7	11.9
Cumberland BC	15.6	19.0	19.3	18.2	16.1	16.3	24.2	12.2
Fayette	13.0	18.0	14.4	15.9	14.1	13.3	18.7	10.4
Hobbit	13.9	16.0	12.6	12.5	12.5	12.1	14.1	14.0
Pella	17.0	20.0	16.8	17.6	14.1	14.9	22.4	13.9
Sparks (IV)	14.7	16.0	14.5	16.5	13.7	13.7	22.4	10.5
Williams 82	13.4	17.0	15.9	15.5	14.0	13.9	19.6	10.7
William BC$_6$	15.8	18.0	16.9	15.5	14.1	14.1	22.0	12.9
A79-336014	17.4	20.0	17.2	17.4	15.0	15.7	23.3	13.6
A80-344003	14.0	16.0	13.9	15.6	12.4	12.5	16.3	12.7
A80-346029	13.7	17.0	13.6	14.3	11.9	12.8	19.8	10.9
A81-257013	15.5	18.0	15.1	17.0	14.6	14.1	22.1	12.3
A81-354025	15.4	16.0	15.3	15.0	14.7	14.6	21.2	12.9
HC74-634RE	16.7	18.0	15.1	16.7	14.7	13.9	19.6	11.6
HC78-279	16.7	18.0	14.4	15.1	14.0	14.2	21.4	12.4
HC78-349	17.0	20.0	14.6	15.5	13.0	13.9	20.9	13.4
HC78-353	16.6	18.0	14.6	15.2	14.2	13.1	19.8	12.8
HC78-676	15.2	17.0	13.3	13.5	11.2	11.6	21.0	11.4
HC79-478	14.8	16.0	12.7	11.4	12.1	11.3	18.7	12.4
HW79015	16.8	19.0	14.7	14.6	11.7	13.0	21.7	13.8
HW8033	18.4	19.0	16.8	17.0	14.0	14.3	21.9	13.7
HW8067	14.0	17.0	13.3	12.9	11.8	12.3	18.6	11.1
HW8130	17.0	18.0	15.4	14.3	12.0	13.8	22.5	13.0
L79-3910	14.8	19.0	13.7	14.8	13.5	13.1	20.8	11.6
L80-4323	13.8	16.0	15.2	15.5	13.5	14.6	20.4	11.0
L80-4349	13.1	17.0	15.3	16.8	14.0	14.6	23.6	10.8
U-75633	16.8	17.0	15.1	14.9	14.5	14.1	22.8	12.9
U-76360	16.6	17.0	14.8	14.0	11.1	12.8	23.6	12.3

UNIFORM TEST III, 1983

Mean 5 Tests	Iowa Stuart	Ill. Urbana	Ind. Lafayette	Kansas Manhattan	Ohio S. Charleston
		PROTEIN (%)			
41.3	40.2	40.3	40.4	43.6	42.0
39.8	39.7	38.3	38.4	40.1	42.3
40.5	39.5	39.5	38.7	41.7	43.3
41.6	41.4	39.8	41.5	42.4	42.9
38.0	37.9	37.1	36.5	38.1	40.2
39.0	39.5	37.6	36.2	41.0	40.8
40.1	40.7	38.5	39.7	40.4	41.2
41.1	40.5	39.9	39.1	42.9	43.1
41.5	41.9	39.8	39.9	43.3	42.7
41.0	40.7	39.2	39.2	42.6	43.4
42.4	42.1	42.1	42.1	43.5	42.3
38.9	39.7	36.2	36.1	40.1	42.3
42.4	--	41.2	--	42.9	43.0
39.5	40.1	37.0	37.1	42.4	41.1
41.6	40.6	40.6	38.9	44.3	43.7
42.7	43.7	41.9	40.4	43.2	44.5
42.3	43.4	40.8	41.3	41.5	44.6
42.7	43.2	41.5	41.1	43.0	44.7
41.1	41.7	39.0	39.1	43.0	42.6
41.1	41.1	39.9	39.9	42.3	42.1
40.2	39.4	39.0	38.8	42.5	41.4
40.3	38.9	39.1	38.9	42.4	42.0
40.5	40.3	38.8	38.6	42.4	42.5
40.2	40.9	38.1	37.2	42.1	42.5
41.4	41.9	39.3	40.1	43.7	41.9
41.6	41.5	40.8	40.5	42.0	43.2
41.8	41.2	40.1	41.2	43.6	42.7
40.4	40.8	40.1	38.0	41.5	41.4
40.5	41.3	39.1	37.8	40.5	43.8

UNIFORM TEST III, 1983

Strain	Mean 5 Tests	Iowa Stuart	Ill. Urbana	Ind. Lafayette	Kansas Manhattan	Ohio S. Charleston
			OIL (%)			
Century	21.6	21.9	22.0	22.5	21.2	20.4
Cumberland (III)	22.9	22.4	23.0	24.5	23.0	21.8
Cumberland BC	23.0	23.5	23.3	24.0	23.2	21.1
Fayette	21.6	22.2	21.9	21.8	21.3	20.6
Hobbit	23.4	23.4	24.4	24.8	23.5	21.0
Pella	22.8	22.6	23.5	24.6	21.9	21.3
Sparks (IV)	22.0	22.6	22.2	23.1	21.1	20.8
Williams 82	22.1	22.4	22.6	23.5	21.3	20.7
William BC$_6$	22.3	22.6	22.9	23.6	21.5	20.8
A79-336014	22.0	22.9	22.1	22.8	22.0	20.4
A80-344003	21.4	21.6	21.7	22.0	21.2	20.4
A80-346029	23.9	23.6	25.2	25.6	23.0	22.0
A81-257013	20.8	--	21.8	--	20.7	19.8
A81-354025	22.4	22.3	23.4	23.5	21.0	22.0
HC74-634RE	22.2	23.1	22.4	23.0	21.5	21.0
HC78-279	22.2	22.2	22.4	23.0	22.8	20.4
HC78-349	22.8	22.8	23.5	23.8	22.6	21.2
HC78-353	22.1	22.3	22.7	23.1	22.0	20.2
HC78-676	21.9	21.9	23.1	23.4	21.1	20.0
HC78-478	22.1	22.0	22.8	23.2	21.3	21.0
HW79015	22.8	24.1	23.2	23.6	22.0	21.1
HW8033	22.8	23.8	23.2	23.2	22.9	20.9
HW8067	22.8	23.3	23.6	24.3	22.4	20.5
HW8130	22.9	22.4	24.3	24.6	22.7	20.5
L79-3910	21.5	21.4	22.5	22.9	20.4	20.1
L80-4323	21.8	21.8	22.3	23.0	21.1	20.9
L80-4349	22.4	23.3	22.7	23.1	21.8	21.1
U-75633	23.1	22.9	23.8	23.8	23.4	21.7
U-76360	22.9	22.9	23.6	24.8	23.6	19.7

PRELIMINARY TEST IIIA, 1983

Strain		Parentage	Generation Composited
1.	BSR 302	(Beeson x AP68-1016) x (L15 x Calland)	F_4
2.	Century (II)	Calland x Bonus	F_6
3.	Cumberland (III)	Corsoy x Williams	F_4
4.	Sparks (IV)	Williams x Calland	F_6
5.	Oakland BC	Oakland^7 x (PI 84637 x PI 86972-1)	BC_6 F_3
6.	Williams 82	Williams^7 x Kingwa	$4BC_6$ F_3
7.	A78-268022	A77-314013 x A77-316022	F_4
8.	A82-361011	Asgrow A3585 x NAPB HP20-20	F_4
9.	A82-363006	Pella x Asgrow A3585	F_4
10.	A82-363015	NK S1492 x NK S4055	F_4
11.	A82-363031	A76-202015 x A76-304020	F_4
12.	A82-363032	A76-202015 x Century	F_4
13.	A82-364015	Pella x A77-314013	F_4
14.	A82-365009	NK S4055 x Pella	F_4
15.	A82-365023	A77-314013 x Tri-Valley Charger	F_4
16.	A82-365028	Asgrow A3582 x Tri-Valley Charger	F_4
17.	A82-367021	AP6 TW 2YT (F_4) C_2	F_4
18.	A82-368007	Asgrow A3585 x A77-116023	F_4
19.	A82-368011	Pella x A78-326017	F_4
20.	A82-368028	A77-314013 x NK S1492	F_4
21.	A82-368033	NK $S4055_2$x A77-211021	F_4
22.	S80-265	$Williams_2$ x ($Clark^6$ x T204)	F_6
23.	S80-285	$Williams^2$ x ($Clark^6$ x T204)	F_6
24.	Hobbit	Williams x Ransom	F_5
25.	HC78-265	L72U-2567 x Essex	F_5
26.	HC78-352	L72U-2567 x Essex	F_5
27.	HC78-2510	L72U-2567 x Ransom	F_5
28.	HC78-2836	L72U-2567 x Essex	F_5
29.	HC78-2894	L72U-2567 x Ransom	F_5
30.	HC78-3128	L72U-2567 x Ransom	F_5
31.	HC79-1233	L72U-2567 x Lee 74	F_5
32.	HC79-1630	L72U-2567 x Ransom	F_5
33.	HC79-1640	L72U-2567 x Ransom	F_5
34.	HC79-1642	L72U-2567 x Ransom	F_5
35.	HC79-1713	L72U-2567 x Ransom	F_5
36.	HW8236	Hobbit EMS Isoline	M_3
37.	LN80-1563	K74-114-75-000 x L64D-674	F_4
38.	LN80-14346	BSR301 x K1028	F_4
39.	U86120	N69-2774 x Williams	F_5

PRELIMINARY TEST IIIA, 1983

Descriptive and Other Data

Strain	Descriptive Code			Chlorosis Score Ames	Shattering Score Manhattan	Shattering Score Urbana
BSR 302	PTBr	IYB1	I	2.8	1.0	3.5
Century (II)	PTBr	SYB1	I	2.7	2.0	3.5
Cumberland (III)	PGBr	SYIb	I	3.2	1.0	2.0
Sparks (IV)	WTT	SYB1	I	1.8	1.0	1.5
Oakland BC	PTBr	DYB1	I	2.3	1.0	3.0
Williams 82	WTT	SYB1	I	3.0	1.0	2.0
A78-268022	WGBr	DYBf	I	3.3	1.0	2.0
A82-361011	PTBr	DYB1	I	2.7	1.0	1.0
A82-363006	PTT	IYB1	I	4.2	1.0	2.0
A82-363015	PGBr	DYBf	I	4.0	1.0	3.5
A82-363031	PTBr	IYB1	I	3.5	1.0	2.0
A82-363032	P+WTBr	DYB1	I	3.7	1.0	1.0
A82-364015	PTT	DYB1	I	4.0	1.0	2.0
A82-365009	PTBr	DYB1	I	2.5	1.0	2.5
A82-365023	WTBr	DYBr	I	3.5	1.0	3.0
A82-365028	PTT	DYBr	I	3.7	1.0	2.5
A82-367021	WTBr	DYB1	I	2.3	1.0	2.0
A82-368007	PTT	DYBr	I	3.5	1.0	2.5
A82-368011	PTT	DYB1	I	3.0	1.0	3.0
A82-368028	WTBr	DYBr	I	3.3	1.0	2.0
A82-368033	WGBr	DYBf	I	3.8	1.0	3.0
S80-265	WTT	SYB1	I	3.3	1.0	1.0
S80-285	WTBr+T	SYB1	I	2.7	1.0	1.0
Hobbit	WTT	SYB1	D	2.5	1.0	1.0
HC78-265	PTT	DYB1	D	2.2	1.0	1.0
HC78-352	PTT	DYB1	D	1.8	2.0	1.0
HC78-2510	PTT	SYB1	D	2.8	1.0	1.0
HC78-2836	PTT	SYB1	D	2.2	1.0	1.0
HC78-2894	PTT	SYB1	D	2.7	1.0	1.0
HC78-3128	PTT	SYB1	D	1.8	1.0	1.0
HC79-1233	PTT	SYB1	D	3.2	1.0	1.0
HC79-1630	PTT	IYB1	D	1.7	1.0	1.0
HC79-1640	PTT	SYB1	D	2.5	1.0	1.0
HC79-1642	PTT	IYB1	D	2.0	1.0	1.5
HC79-1713	PTT	SYB1	D	1.7	1.0	1.0
HW8236	WTT	SYB1	D	2.0	1.0	1.0
LN80-1563	P+WTT	IYB1+Gr	I	1.5	1.0	1.0
LN80-14346	PTBr	DYBr	I	3.7	3.0	1.0
U86120	WTT	SYB1	I	2.3	1.0	1.0

Disease Data

BSR			PR_1
Ames		Lafayette	Lafayette
Plant	Stem	Stem	a
n %	n %	n %	---Reaction---
100	54.4	40	R
100	70.4	0	R
100	71.3	20	S
100	68.9	0	R
100	77.5	40	R
100	75.8	60	R
100	50.5	60	H
100	79.1	0	S
-	-	20	H
100	60.4	40	S
100	72.1	40	S
100	69.1	40	R
30	54.2	20	R
-	-	0	H
100	44.2	20	S
70	40.7	60	H
40	61.8	40	S
-	-	7	S
80	39.6	0	S
10	50.0	0	S
10	50.0	40	S
100	62.7	80	S
90	69.2	80	H
100	92.1	40	S
100	98.9	40	S
100	95.3	20	S
100	100.0	40	S
100	83.5	60	S
100	100.0	60	S
100	95.7	80	S
100	97.9	80	R
70	96.8	40	S
100	100.0	60	S
100	100.0	40	S
100	95.5	60	S
100	91.0	60	R
100	82.3	20	R
100	44.4	80	R
100	93.4	60	S

PRELIMINARY TEST IIIA, 1983

Disease Data

Strain	PS	PSB	SMV	Germ	Hard Seeds	Green Seeds
	Lafayette					
	a %	n %	a Score	%	%	%
BSR 302	15	3	4	80	7	5
Century	7	1	4E	78	14	8
Cumberland (III)	6	4	4	83	6	2
Sparks (IV)	8	10	4	76	0	0
Oakland BC	0	2	1	78	9	20
Williams 82	5	2	4E	93	0	0
A78-268022	3	1	5	84	11	2
A82-361011	18	6	4M	66	11	20
A82-363006	23	1	4M	81	3	1
A82-363015	13	0	1	77	11	12
A82-363031	13	1	2	72	12	8
A82-363032	5	5	5	50	17	18
A82-364015	7	2	5	87	2	0
A82-365009	1	2	4	88	4	0
A82-365023	2	4	3	92	1	0
A82-365028	9	1	3	93	2	2
A82-367021	15	3	3	83	4	6
A82-368007	4	4	4	87	4	0
A82-368011	11	1	3M	80	4	4
A82-368028	11	1	5	76	15	1
A82-368033	15	1	3M	66	20	6
S80-265	5	0	3M	91	0	0
S80-285	12	0	3M	94	0	2
Hobbit	1	2	1	80	10	11
HC78-265	4	1	3	76	0	7
HC78-352	3	2	3M	85	1	0
HC78-2510	1	0	3M	96	0	0
HC78-2836	1	1	1	95	2	4
HC78-2894	0	1	3	90	0	0
HC78-3128	3	0	4	96	0	0
HC79-1233	4	0	2	85	5	1
HC79-1630	1	2	3	86	0	0
HC79-1640	1	0	3	93	3	0
HC79-1642	1	2	2	98	0	0
HC79-1713	0	6	3	91	0	0
HW8236	0	2	2	75	8	3
LN80-1563	1	2	5	75	12	0
LN80-14346	7	2	4	87	4	0
U86120	11	2	3	96	2	0

PRELIMINARY TEST IIIA, 1983

Regional Summary

Strain	Yield	Rank	Maturity	Lodging	Plant Height	Seed Quality	Seed Size	Composition	
								Protein	Oil
No. of Tests	9	9	8	9	9	9	8	5	5
	bu/a	No.	Date	Score	In.	Score	g/100	%	%
BSR 302	40.0	37	-0.4	2.3	39	2.2	15.1	41.9	20.4
Century (II)	43.6	20	-6.1	1.3	30	2.5	16.9	41.3	21.6
Cumberland (III)	45.7	9	9-25.8*	1.7	35	2.3	16.4	39.7	23.5
Sparks (IV)	43.3	23	+3.9	2.3	41	2.3	15.2	40.2	22.1
Oakland BC	42.5	26	-1.6	1.4	38	2.3	16.3	40.6	22.3
Williams 82	42.1	29	+1.0	1.5	38	2.1	15.2	41.0	22.2
A78-268022	45.7	9	-3.0	1.8	38	1.9	15.2	41.0	22.5
A82-351011	46.8	5	-3.5	1.5	35	2.5	16.2	38.3	22.8
A82-363006	42.4	27	+0.4	1.7	39	2.5	17.2	39.0	22.8
A82-363015	43.3	23	-0.9	1.6	38	2.4	14.7	37.9	23.5
A82-363031	45.8	8	+0.3	1.3	33	2.6	17.4	40.6	21.8
A82-363032	47.1	4	+0.6	1.6	35	2.3	15.0	40.3	22.8
A82-364015	44.2	16	-1.8	1.6	37	2.2	16.2	38.9	23.2
A82-365009	43.0	25	+0.6	1.6	39	2.4	15.5	39.0	22.1
A82-365023	45.7	9	+0.9	1.4	38	2.2	14.4	39.4	22.2
A82-365028	47.5	2	0.0	1.5	38	2.3	15.2	38.7	23.7
A82-367021	44.7	14	-1.6	2.0	33	2.2	16.7	40.6	21.8
A82-368007	40.5	33	-2.1	1.6	35	2.1	15.7	41.2	21.3
A82-368011	42.1	29	+0.3	1.9	38	2.6	17.3	41.4	21.7
A82-368028	40.2	36	-4.6	1.5	34	2.3	15.4	41.3	22.1
A82-368033	41.7	31	-1.3	2.3	39	2.3	16.5	41.2	21.6
S80-265	39.1	38	+5.3	1.8	39	2.0	13.1	40.8	21.9
S80-285	38.9	39	+6.0	1.8	40	2.0	13.1	40.9	21.7
Hobbit	47.2	3	+0.8	1.2	21	2.0	14.6	38.0	23.3
HC78-265	44.9	13	+4.5	1.2	20	1.9	16.8	42.5	22.3
HC78-352	40.4	35	+3.4	1.1	21	2.1	16.7	42.1	22.3
HC78-2510	46.8	5	+2.9	1.2	23	1.7	13.9	38.0	23.7
HC78-2836	49.0	1	+3.6	1.3	23	2.0	15.3	41.5	22.0
HC78-2894	44.2	16	+2.5	1.1	21	1.8	15.3	41.1	22.2
HC78-3128	43.4	21	+1.5	1.1	20	1.7	14.6	40.1	22.6
HC79-1233	43.8	18	+2.5	1.2	22	1.8	14.5	42.1	21.3
HC79-1630	42.4	27	+2.4	1.3	23	1.9	15 5	40.7	22.7
HC79-1640	40.5	33	+3.8	1.2	23	1.9	14.9	39.7	22.9
HC79-1642	41.4	32	+1.8	1.3	22	1.9	15.3	40.1	23.4
HC79-1713	43.7	19	+1.6	1.2	22	2.1	14.6	39.7	23.3
HW8236	46.7	7	-1.6	1.0	21	1.9	15.4	36.2	24.4
LN80-1563	43.4	21	-0.6	1.3	26	2.1	12.4	39.6	23.1
LN80-14346	44.6	15	-1.3	1.7	33	2.2	17.2	40.1	21.9
U86120	45.6	12	+4.0	1.3	25	2.2	14.2	39.6	21.1

*129 days after planting

PRELIMINARY TEST IIIA, 1983

Strain	Mean 9 Tests	Iowa		IL	Ind.
		Ottumwa	Stuart	Urbana	Lafayette
		YIELD (bu/a)			
BSR 302	40.0	32.4	46.7	34.3	34.8
Century (II)	43.6	29.5	53.9	38.5	29.8
Cumberland (III)	45.7	35.4	54.9	48.1	37.5
Sparks (IV)	43.3	32.9	49.9	45.4	35.3
Oakland BC	42.5	30.1	51.5	42.1	37.5
Williams 82	42.1	34.1	46.2	42.1	39.0
A78-268022	45.7	31.7	51.4	47.1	40.0
A82-361011	46.8	27.4	51.8	47.4	42.8
A82-363006	42.4	30.8	46.2	46.0	38.4
A82-363015	43.3	34.0	46.2	43.6	35.6
A82-363031	45.8	29.4	51.1	48.5	53.2
A82-363032	47.1	32.9	57.5	52.0	40.5
A82-364015	44.2	32.3	49.1	51.5	40.3
A82-365009	43.0	33.8	47.0	41.6	42.6
A82-365023	45.7	33.5	48.6	46.1	41.3
A82-365028	47.5	34.7	54.6	48.4	45.0
A82-367021	44.7	34.7	52.7	51.9	47.5
A82-368007	40.5	30.3	47.3	45.2	37.6
A82-368011	42.1	30.0	47.4	37.9	47.2
A82-368028	40.2	29.4	49.6	35.5	38.7
A82-368033	41.7	31.5	47.5	36.1	44.9
S80-265	39.1	30.6	42.7	45.3	35.2
S80-285	38.9	30.4	37.4	43.2	38.0
Hobbit	47.2	37.5	52.6	49.5	46.7
HC78-265	44.9	29.8	50.4	48.1	45.8
HC78-352	40.4	28.8	42.7	35.3	45.4
HC78-2510	46.8	31.9	54.5	48.3	46.1
HC78-2836	49.0	31.9	49.4	48.5	51.7
HC78-2894	44.2	30.7	51.6	46.9	50.2
HC78-3128	43.4	33.3	50.0	41.1	48.8
HC79-1233	43.8	33.3	44.6	46.9	47.0
HC79-1630	42.4	32.2	52.2	39.0	51.3
HC79-1640	40.5	32.8	51.9	36.2	49.6
HC79-1642	41.4	32.7	50.3	36.4	45.6
HC79-1713	43.7	33.6	54.6	47.4	49.0
HW8236	46.7	31.5	52.0	48.1	47.7
LN80-1563	43.4	33.5	49.2	47.1	44.4
LN80-14346	44.6	33.6	51.3	46.2	47.2
U86120	45.6	34.9	50.1	45.5	49.6
C.V. (%)		7.1	4.7	16.4	14.3
L.S.D. (5%)		4.6	4.7	14.7	12.3
Row sp. (in.)		27	27	30	24
Rows/plot		4	4	4	4

PRELIMINARY TEST IIIA, 1983

KS	KY	Neb.	Ohio		S.D.
Manhattan	Lexington[1]	Mead	Hoytville	S. Charleston	Elk Point
			YIELD (bu/a)		
46.9	11.7	42.6	40.2	59.1	23.3
53.3	8.5	52.2	43.4	62.8	29.0
52.8	10.4	50.4	45.8	61.7	24.6
60.2	10.4	39.9	44.9	60.7	20.4
51.4	8.2	44.2	36.4	58.1	31.0
54.4	9.8	41.3	44.8	56.9	19.7
61.2	10.9	47.8	44.9	60.6	26.4
63.2	10.6	54.1	41.1	59.1	34.3
63.3	9.9	44.3	35.1	53.4	24.1
60.4	10.1	51.8	38.1	60.8	18.9
57.8	7.8	44.7	43.8	60.6	22.9
54.2	12.0	45.8	49.4	66.8	25.2
56.2	11.3	44.0	40.0	59.5	25.2
59.8	12.3	40.1	38.9	60.2	23.4
62.2	10.6	44.1	46.5	64.8	24.6
66.2	6.8	45.8	44.9	60.1	27.5
48.7	12.0	46.4	33.6	56.9	29.5
57.2	9.3	43.5	28.4	53.5	21.1
56.4	7.4	39.0	40.4	56.6	23.8
55.0	11.0	43.5	29.5	52.7	27.6
50.0	7.9	43.7	43.4	57.8	20.2
52.0	11.1	33.9	40.4	59.7	12.1
53.6	8.1	40.6	41.1	56.1	9.9
57.9	12.5	50.7	44.6	63.7	21.9
43.4	10.0	47.2	44.2	71.6	23.7
33.7	9.6	42.3	44.3	67.3	23.9
61.4	10.5	45.2	33.5	70.2	30.4
58.1	12.1	52.4	50.0	68.1	31.1
37.7	8.9	45.3	41.1	68.9	25.1
45.8	9.1	47.9	36.6	63.9	22.9
42.9	8.9	49.8	46.9	66.5	15.9
47.4	11.4	43.8	37.4	62.4	15.6
47.1	11.2	46.1	24.4	55.0	21.4
45.8	13.9	46.8	38.1	50.2	26.4
44.7	12.3	46.1	32.9	63.2	22.1
60.9	12.5	51.8	43.0	68.2	16.9
56.8	13.0	44.4	43.4	56.7	15.5
56.0	9.5	49.1	39.7	51.6	26.7
63.9	13.3	44.0	43.5	63.0	16.3
7.9	21.9	7.1	12.3	9.1	16.2
8.6	4.6	6.6	10.0	11.0	7.5
30	30	30	15	30	30
4	4	4	5	4	4
2	2	2	2	2	2

[1]Data not included in the mean

PRELIMINARY TEST IIIA, 1983

Strain		Iowa		Ill.	Ind.
		Ottumwa	Stuart	Urbana	Lafayette
		YIELD RANK			
BSR 302	37	19	32	39	38
Century (II)	20	35	6	32	39
Cumberland (III)	9	2	2	9	33
Sparks (IV)	23	15	22	22	36
Oakland BC	26	32	14	27	33
Williams 82	29	6	33	27	28
A78-268022	9	24	15	14	27
A82-361011	5	39	12	12	22
A82-363006	27	27	33	20	30
A82-363015	23	7	33	25	35
A82-363031	8	36	17	5	1
A82-363032	4	15	1	1	25
A82-364015	16	20	26	3	26
A82-365009	25	8	31	29	23
A82-365023	9	11	27	19	24
A82-365028	2	4	3	7	19
A82-367021	14	4	7	2	10
A82-368007	33	31	30	24	32
A82-368011	29	33	29	33	11
A82-368028	36	36	23	37	29
A82-368033	31	25	28	36	20
S80-265	38	29	37	23	37
S80-285	39	30	39	26	31
Hobbit	3	1	8	4	14
HC78-265	13	34	18	9	16
HC78-352	35	38	37	38	18
HC78-2510	5	22	5	8	15
HC78-2836	1	22	24	5	2
HC78-2894	16	28	13	16	4
HC78-3128	21	13	21	30	8
HC79-1233	18	13	36	16	13
HC79-1630	27	21	9	31	3
HC79-1640	33	17	11	35	5
HC79-1642	32	18	19	34	17
HC79-1713	19	9	3	12	7
HW8236	7	25	10	9	9
LN80-1563	21	11	25	14	21
LN80-14346	15	9	16	18	11
U86120	12	3	20	21	5

PRELIMINARY TEST IIIA, 1983

KS	KY	Neb.	Ohio		S.D.
Manhattan	Lexington	Mead	Hoytville	S. Charleston	Elk Point
			YIELD RANK		
32	11	32	24	25	22
24	33	3	15	14	6
25	21	7	5	16	15
10	21	37	6	18	29
27	34	24	32	27	3
21	26	34	9	29	31
7	17	11	6	19	10
4	18	1	19	25	1
3	25	23	33	36	17
9	23	4	28	17	32
14	37	21	13	19	23
22	9	17	2	7	12
18	13	26	25	24	12
11	6	36	27	21	21
5	18	25	4	9	15
1	39	17	6	22	8
29	9	14	34	29	5
15	29	30	38	35	28
17	38	38	22	32	19
20	16	30	37	37	7
28	36	29	15	28	30
26	15	39	22	23	38
23	35	35	19	33	39
13	4	6	10	11	26
36	24	12	12	1	20
39	27	33	11	6	18
6	20	20	35	2	4
12	8	2	1	5	2
38	31	19	19	3	14
33	30	10	31	10	23
37	31	8	3	8	35
30	12	28	30	15	36
31	14	15	39	34	27
33	1	13	28	39	10
35	6	15	36	12	25
8	4	4	18	4	33
16	3	22	15	31	37
19	28	9	26	38	9
2	2	26	14	13	34

PRELIMINARY TEST IIIA, 1983

Strain	Mean 8 Tests	Iowa		Ill.	Ind.
		Ottumwa	Stuart	Urbana	Lafayette
		MATURITY (date)			
BSR 302	-0.4		0	-5	+1
Century (II)	-7.9		-10	-11	-2
Cumberland (III)	9-25.8		9-26	10-1	9-17
Sparks (IV)	+3.9		+2	+3	+4
Oakland BC	-1.6		0	-5	+1
Williams 82	+1.0		0	-3	+1
A78-268022	-3.0		-2	-8	-4
A82-361011	-3.5		-6	-7	-1
A82-363006	+0.4		0	-2	0
A82-363015	-0.9		0	-5	-2
A82-363031	+0.3		0	0	-1
A82-363032	+0.6		0	-1	0
A82-364015	-1.8		-2	-4	-1
A82-365009	+0.6		0	-4	+3
A82-365023	+0.9		0	-4	+1
A82-365028	0.0		0	-5	0
A82-367021	-1.6		-4	-4	-1
A82-368007	-2.1		-2	-7	-6
A82-368011	+0.3		0	-2	+1
A82-368028	-4.6		-6	-9	-6
A82-368033	-1.3		0	-5	+1
S80-265	+5.3		+5	+4	+4
S80-285	+6.0		+5	+3	+5
Hobbit	+0.8		0	-2	+4
HC78-265	+4.5		+4	0	+7
HC78-352	+3.4		+5	-1	+4
HC78-2510	+2.9		+2	-2	+6
HC78-2836	+3.6		+2	+1	+6
HC78-2894	+2.5		0	0	+6
HC78-3128	+1.5		0	-2	+4
HC79-1233	+2.5		+1	-2	+6
HC79-1630	+2.4		+1	-3	+6
HC79-1640	+3.8		+2	+1	+7
HC79-1642	+1.8		+1	-2	+3
HC79-1713	+1.6		0	-2	+4
HW8236	-1.6		0	-3	+1
LN80-1563	-0.6		-1	-3	0
LN80-14346	-1.3		-2	-1	0
U86120	+4.0		+3	+3	+8
Date Planted	5-20	5-11	5-10	5-30	5-11
Days to Mature	129		139	124	129

PRELIMINARY TEST IIIA, 1983

KS	KY	Neb.	Ohio		S.D.
Manhattan	Lexington[1]	Mead	Hoytville	S. Charleston	Elk Point
		MATURITY (date)			
-3	F	+1	+1	+2	0
-11	-9	-8	-7	-6	-8
9-22	F	9-26	9-25	9-18	10-11
+5	F	+2	+4	+6	+5
-4	-2	-1	-2	-2	0
+4	F	+1	+3	+3	-1
-4	-2	-3	-2	+1	-2
-2	-9	-2	-5	-4	-1
+3	F	+2	-1	+1	0
-2	-1	+1	-2	+3	0
0	F	0	+3	0	0
-1	F	0	+3	+4	0
-3	F	-1	-3	-1	+1
+1	F	0	+2	+3	0
+4	F	0	+2	+3	+1
+4	-3	0	+2	-1	0
-3	F	0	-2	-1	0
+3	F	-2	-1	-2	0
+2	F	+1	-1	0	+1
-3	F	-4	-3	-4	-2
0	F	-2	-3	+1	-2
+7	F	+4	+6	+12	0
+8	F	+6	+7	+11	+3
+4	F	+1	0	+2	-3
+8	F	+4	+5	+8	0
+8	F	+2	+5	+7	0
+7	F	+1	+3	+9	-3
+5	F	+3	+5	+9	-2
+8	F	+1	+2	+5	-2
+6	F	+1	+2	+3	-2
+5	F	+2	+3	+7	-2
+6	F	+1	+3	+7	-2
+7	F	+3	+3	+8	-1
+7	F	+1	+1	+6	-3
+6	F	0	+1	+7	-3
-2	-6	-1	-2	-1	-5
0	F	-1	-1	+2	-1
0	F	0	-3	-2	-2
+2	F	+2	+6	+9	-1
5-9	5-28	5-24	6-1	5-13	5-31
136		125	116	128	133

[1]Data not included in the mean

PRELIMINARY TEST IIIA, 1983

Strain	Mean 9 Tests	Iowa		Ill.	Ind.
		Ottumwa	Stuart	Urbana	Lafayette
		LODGING (score)			
BSR 302	2.3	1.9	3.5	1.3	1.5
Century (II)	1.3	1.1	1.1	1.0	1.0
Cumberland (III)	1.7	1.2	1.9	1.3	1.0
Sparks (IV)	2.3	1.9	2.3	1.6	1.3
Oakland BC	1.4	1.2	1.4	1.2	1.0
Williams 82	1.5	1.2	1.3	1.2	1.0
A78-268022	1.8	1.4	1.6	1.6	1.5
A82-361011	1.5	1.2	1.4	1.2	1.3
A82-363006	1.7	1.2	1.8	1.2	1.3
A82-363015	1.6	1.2	1.5	1.2	1.3
A82-363031	1.3	1.2	1.2	1.1	1.0
A82-363032	1.6	1.2	1.6	1.3	1.0
A82-364015	1.6	1.2	1.2	1.2	1.3
A82-365009	1.6	1.2	1.5	1.3	1.0
A82-365023	1.4	1.1	1.1	1.2	1.0
A82-365028	1.5	1.3	1.3	1.2	1.0
A82-367021	2.0	1.2	2.7	1.7	1.3
A82-368007	1.6	1.3	1.3	1.2	1.3
A82-368011	1.9	1.7	2.0	1.7	1.5
A82-368028	1.5	1.2	1.2	1.1	1.0
A82-368033	2.3	1.7	2.6	1.5	1.8
S80-265	1.8	1.2	1.4	1.4	1.3
S80-285	1.8	1.2	1.6	1.4	1.3
Hobbit	1.2	1.0	1.1	1.1	1.0
HC78-265	1.2	1.1	1.1	1.2	1.0
HC78-352	1.1	1.2	1.0	1.1	1.0
HC78-2510	1.2	1.1	1.1	1.1	1.0
HC78-2836	1.3	1.2	1.1	1.2	1.0
HC78-2894	1.1	1.0	1.2	1.1	1.0
HC78-3128	1.1	1.0	1.0	1.1	1.0
HC79-1233	1.2	1.3	1.2	1.1	1.0
HC79-1630	1.3	1.1	1.1	1.1	1.0
HC79-1640	1.2	1.0	1.3	1.0	1.0
HC79-1642	1.3	1.1	1.1	1.1	1.0
HC79-1713	1.2	1.0	1.2	1.1	1.0
HW8236	1.0	1.0	1.0	1.1	1.0
LN80-1563	1.3	1.1	1.1	1.1	1.3
LN80-14346	1.7	1.2	1.1	1.0	1.0
U86120	1.3	1.3	1.3	1.3	1.3

PRELIMINARY TEST IIIA, 1983

KS	KY	Neb.	Ohio		S.D.
Manhattan	Lexington [1]	Mead	Hoytville	S. Charleston	Elk Point
		LODGING (score)			
4.3	1.0	2.0	1.9	3.5	1.0
1.8	1.0	1.0	1.5	2.0	1.0
3.8	1.0	1.3	1.5	2.0	1.0
4.0	1.0	2.0	3.5	2.8	1.0
2.3	1.0	1.0	1.7	1.8	1.0
3.0	1.0	1.3	1.9	2.0	1.0
3.3	1.0	1.5	1.9	2.2	1.0
2.8	1.0	1.0	1.5	2.0	1.0
3.3	1.0	1.5	1.8	2.5	1.0
3.0	1.0	1.3	1.5	2.8	1.0
2.3	1.0	1.0	1.5	1.0	1.0
3.0	1.0	1.5	1.6	2.2	1.0
3.0	1.0	1.3	1.6	2.2	1.0
3.5	1.0	1.3	1.7	1.8	1.0
2.8	1.0	1.0	1.5	2.2	1.0
2.8	1.0	1.3	1.5	2.0	1.0
4.0	1.0	1.3	1.5	3.5	1.0
3.0	1.0	1.3	1.5	2.8	1.0
3.5	1.0	1.8	1.8	2.2	1.0
3.3	1.0	1.3	1.6	2.2	1.0
4.3	1.0	2.0	1.6	4.0	1.0
3.5	1.0	1.5	1.8	2.8	1.0
4.3	1.0	1.5	1.6	2.2	1.0
1.0	1.0	1.0	1.2	2.0	1.0
1.3	1.0	1.0	1.2	1.5	1.0
1.3	1.0	1.0	1.2	1.2	1.0
1.0	1.0	1.0	1.3	2.2	1.0
1.3	1.0	1.3	1.6	2.0	1.0
1.0	1.0	1.0	1.2	1.5	1.0
1.0	1.0	1.0	1.3	1.2	1.0
1.0	1.0	1.0	1.6	1.5	1.0
1.5	1.0	1.0	1.5	2.0	1.0
1.0	1.0	1.0	1.3	1.8	1.0
1.0	1.0	1.0	1.4	2.8	1.0
1.3	1.0	1.0	1.3	2.3	1.0
1.0	1.0	1.0	1.2	1.0	1.0
1.5	1.0	1.0	1.5	2.0	1.0
3.3	1.0	1.3	1.3	3.8	1.0
1.5	1.0	1.0	1.4	1.8	1.0

[1]Data not included in the mean

PRELIMINARY TEST IIIA, 1983

Strain	Mean 9 Tests	Iowa		Ill.	Ind.
		Ottumwa	Stuart	Urbana	Lafayette
		PLANT HEIGHT (inches)			
BSR 302	39	34	44	34	36
Century (II)	30	23	32	27	28
Cumberland (III)	35	30	42	34	32
Sparks (IV)	41	33	42	38	40
Oakland BC	38	31	41	34	38
Williams 82	38	32	42	38	34
A78-268022	38	32	42	41	37
A82-361011	35	28	37	32	37
A82-363006	39	31	46	39	38
A82-363015	38	32	42	38	37
A82-363031	33	28	40	32	33
A82-363032	35	26	40	32	35
A82-364015	37	30	42	37	36
A82-365009	39	32	46	37	39
A82-365023	38	29	42	38	38
A82-365028	38	26	40	35	40
A82-367021	33	29	36	32	37
A82-368007	35	28	41	34	36
A82-368011	38	31	41	36	38
A82-368028	34	28	39	31	36
A82-368033	39	32	44	32	40
S80-265	39	34	42	43	36
S80-285	40	34	45	42	35
Hobbit	21	20	21	19	23
HC78-265	20	19	20	19	24
HC78-352	21	18	21	17	21
HC78-2510	23	22	24	21	24
HC78-2836	23	22	24	19	25
HC78-2894	21	20	22	19	22
HC78-3128	20	18	18	19	22
HC79-1233	22	22	21	21	25
HC79-1630	23	20	24	19	25
HC79-1640	23	21	24	20	24
HC79-1642	22	22	22	19	25
HC79-1713	22	22	22	20	24
HW8236	21	19	22	17	23
LN80-1563	26	24	26	22	32
LN80-14346	33	26	34	31	33
U86120	25	22	27	22	29

PRELIMINARY TEST IIIA, 1983

KS	KY	Neb.	Ohio		S.D.
Manhattan	Lexington[1]	Mead	Hoytville	S. Charleston	Elk Point
		PLANT HEIGHT (inches)			
41	24	43	40	42	33
37	19	30	33	39	24
37	19	40	38	38	28
44	23	44	43	43	35
45	21	42	36	43	29
41	22	40	40	42	31
39	22	42	38	41	29
40	23	38	31	40	31
46	22	43	33	41	30
44	23	45	33	43	25
37	22	29	30	40	28
36	19	38	37	41	29
44	20	30	39	43	30
47	22	43	36	44	31
45	22	40	41	43	29
44	20	41	35	43	34
36	19	34	28	38	26
42	20	36	33	39	26
46	19	40	34	42	31
41	20	39	24	42	25
48	21	40	38	43	30
47	24	40	37	45	29
49	23	44	40	43	31
21	19	18	26	30	15
20	18	18	21	27	16
17	20	28	24	27	18
21	18	20	26	29	16
20	22	22	27	29	16
19	19	20	20	28	18
19	23	20	24	28	15
19	20	23	27	28	14
20	19	20	27	29	23
21	21	21	26	29	19
20	22	22	27	28	16
18	21	20	25	28	15
18	19	30	26	26	11
26	22	22	32	38	16
38	18	36	34	37	26
22	22	24	31	31	17

[1]Data not included in the mean

PRELIMINARY TEST IIIA, 1983

Strain	Mean 9 Tests	Iowa		Ill.	Ind.
		Ottumwa	Stuart	Urbana	Lafayette
		SEED QUALITY (score)			
BSR 302	2.2		2.0	2.8	1.0
Century (II)	2.5		2.0	3.0	2.0
Cumberland (III)	2.3		1.9	3.3	1.5
Sparks (IV)	2.3		2.0	2.3	1.5
Oakland BC	2.3		1.9	3.0	1.5
Williams 82	2.1		1.7	2.0	1.0
A78-268022	1.9		1.4	1.8	1.0
A82-361011	2.5		1.9	2.5	1.5
A82-363006	2.5		2.0	2.8	1.5
A82-363015	2.4		1.8	3.0	1.5
A82-363031	2.6		2.0	2.5	3.0
A82-363032	2.3		1.8	2.5	1.5
A82-364015	2.2		1.6	2.0	1.5
A82-365009	2.4		1.6	3.0	1.5
A82-365023	2.2		1.7	2.5	1.5
A82-365028	2.3		1.5	2.5	1.5
A82-367021	2.2		1.8	2.3	1.0
A82-368007	2.1		1.4	1.5	1.5
A82-368011	2.6		1.9	3.3	2.0
A82-368028	2.3		2.0	2.0	1.5
A82-368033	2.3		2.0	3.3	1.5
S80-265	2.0		1.4	2.0	1.0
S80-285	2.0		1.4	2.3	1 0
Hobbit	2.0		1.8	2.5	1.0
HC78-265	1.9		1.8	2.3	1.5
HC78-352	2.1		1.6	2.3	1.0
HC78-2510	1.7		1.5	1.8	1.0
HC78-2836	2.0		1.8	2.0	1.0
HC78-2894	1.8		1.5	1.8	1.0
HC78-3128	1.7		1.5	2.5	1.5
HC79-1233	1.8		1.5	2.0	1.0
HC79-1630	1.9		1.6	2.5	1.0
HC79-1640	1.9		1.4	2.5	1.5
HC79-1642	1.9		1.5	2.0	1.5
HC79-1713	2.1		1.8	2.0	1.5
HW8236	1.9		1.6	2.3	1.5
LN80-1563	2.1		1.8	2.5	1.5
LN80-14346	2.2		1.4	2.0	1.5
U86120	2.2		1.6	2.0	1.0

PRELIMINARY TEST III A, 1983

KS	KY	Neb.	Ohio		S.D.
Manhattan	Lexington	Mead	Hoytville	S. Charleston	Elk Point
		SEED QUALITY (score)			
2.0	4.0	1.3	1.5	1.5	4.0
4.0	4.0	1.0	1.6	1.5	3.0
3.0	4.0	1.3	1.2	1.5	3.0
2.0	5.0	1.0	1.3	1.5	4.0
2.0	4.0	1.8	1.7	1.5	3.0
4.0	4.0	1.0	1.2	1.0	3.0
2.0	4.0	1.0	1.5	1 0	3.0
3.0	4.0	1.5	2.0	2.0	4.0
4.0	4.0	1.3	2.1	1.5	3.0
2.0	4.0	2.0	1.7	1.5	4.0
3.0	5.0	1.5	2.0	1.5	3.0
1.5	5.0	1.0	1.6	1.5	4.0
2.0	4.0	1.3	1.4	2.0	4.0
3.0	4.0	1.3	1.5	1.5	4.0
3.0	4.0	1.0	1.5	1.0	4.0
3.0	4.0	1.5	1.9	2.0	3.0
4.0	3.0	1.3	2.3	1.5	3.0
3.0	3.0	1.0	2.0	1.5	4.0
3.0	5.0	2.0	2.0	1.5	3.0
3.0	4.0	1.5	1.6	2.0	3.0
2.0	4.0	1.8	1.6	1.5	3.0
2.0	3.0	1.3	1.2	1.0	5.0
2.0	3.0	1.0	1.1	1.0	5.0
2.0	3.0	1.0	1.3	1.0	4.0
3.0	2.0	1.0	1.3	1.5	3.0
4.0	3.0	1.3	1.5	1.5	3.0
2.0	2.0	1.3	1.4	1.0	3.0
4.0	3.0	1.0	1.4	1.0	3.0
2.0	3.0	1.0	1.7	1.0	3.0
2.0	2.0	1.0	1.2	1.0	3.0
1.0	4.0	1.5	1.4	1.0	3.0
3.0	2.0	1.0	1.6	1.0	3.0
4.0	2.0	1.3	1.6	1.0	2.0
4.0	3.0	1.0	1.3	1.0	2.0
5.0	3.0	1.0	1.5	1.0	2.0
1.5	4.0	1.0	2.0	1.5	2.0
3.0	4.0	1.3	1.6	1.0	2.0
3.0	4.0	1.0	1.4	1.5	4.0
2.0	4.0	1.0	1.4	1.0	5.0

PRELIMINARY TEST IIIA, 1983

Strain	Mean 8 Tests	Iowa		Ill.	Ind.
		Ottumwa	Stuart	Urbana	Lafayette
		SEED SIZE (g/100)			
BSR 302	15.1		15.9	13.9	17.9
Century (II)	16.9		17.6	17.8	18.5
Cumberland (III)	16.4		18.2	17.6	17.5
Sparks (IV)	15.2		16.1	14.2	18.0
Oakland BC	16.3		17.2	16.9	17.9
Williams 82	15.2		15.3	14.1	16.4
A78-268022	15.2		16.6	16.1	16.6
A82-361011	16.2		18.0	16.8	18.1
A82-363006	17.2		18.4	18.0	20.0
A82-363015	14.7		15.4	14.6	14.4
A82-363031	17.4		19.0	18.4	18.4
A82-363032	15.0		17.0	15.0	15.4
A82-364015	16.2		17.1	17 0	18.9
A82-365009	15.5		16.0	14.2	18.5
A82-365023	14.4		16.2	14.1	16.4
A82-365028	15.2		16.0	16.0	16.9
A82-367021	16.7		17.7	17.2	17.3
A82-368007	15.7		16.1	15.5	16.1
A82-368011	17.3		19.2	16.5	20.1
A82-368028	15.4		16.8	15.8	16.2
A82-368033	16.5		18.2	15.6	18.3
S80-265	13.1		13.4	13.2	15.3
S80-285	13.1		12.7	12.8	15.6
Hobbit	14.6		14.5	14.5	15.8
HC78-265	16.8		16.2	15.4	19.4
HC78-352	16.7		15.6	14.4	17.5
HC78-2510	13.9		13.4	13.4	16.3
HC78-2836	15.3		14.2	13.6	17.6
HC78-2894	15.3		15.2	13.7	16.8
HC78-3128	14.6		14.7	13.3	17.1
HC79-1233	14.5		15.6	13.0	16.2
HC79-1630	15.5		14.6	12.8	17.7
HC79-1640	14.9		14.0	13.2	17.9
HC79-1642	15.3		14.3	14.0	17.5
HC79-1713	14.6		14.2	13.1	17.1
HW8236	15.4		15.5	15.8	17.3
LN80-1563	12.4		11.8	12.7	13.2
LN80-14346	17.2		18.2	17.5	19.8
U86120	14.2		13.4	13.7	16.5

PRELIMINARY TEST IIIA, 1983

KS	KY	Neb.	Ohio		S.D.
Manhattan	Lexington[1]	Mead	Hoytville	S. Charleston	Elk Point
		SEED SIZE (g/100)			
16.4	13.8	14.8	14.8	15.2	12.2
16.9	8.1	18.1	15.2	16.9	14.5
16.5	11.3	15.3	17.3	17.4	11.1
18.3	11.2	14.5	14.9	15.6	10.4
16.4	10.5	16.5	17.0	15.5	13.2
15.4	9.8	13.1	16.0	15.5	10.4
15.8	10.7	14.9	14.2	15.8	11.2
16.6	13.5	16.6	15.1	15.6	12.7
19.1	11.1	16.7	16.8	15.9	13.1
17.9	9.6	14.8	13.4	14.4	12.1
19.0	8.7	17.6	17.4	15.3	14.1
16.1	10.8	14.5	13.9	16.6	11.4
16.4	11.2	16.2	15.4	16.1	12.7
16.8	11.0	14.9	15.4	16.0	12.3
16.1	8.3	13.4	14.1	14.7	10.3
15.9	8.9	15.0	14.2	15.5	11.6
20.6	12.2	17.3	14.9	16.7	12.0
19.5	9.6	16.8	14.5	14.8	11.9
21.4	7.4	16.7	16.1	15.9	12.4
17.4	9.8	14.9	15.7	15.0	12.0
18.9	9.1	15.8	14.6	17.0	13.4
14.2	9.3	11.9	13.9	14.2	8.6
16.3	9.0	11.6	13.4	14.2	8.0
15.4	10.6	14.4	13.4	15.6	13.3
21.5	10.5	17.1	15.6	17.4	11.9
23.7	11.1	17.4	14.5	17.1	13.4
15.6	10.4	12.9	12.4	14.7	12.5
18.4	10.8	15.1	14.9	15.6	13.5
18.8	8.2	14.4	13.4	14.9	14.6
17.7	11.0	14.4	13.1	14.1	12.8
18.0	8.5	13.4	13.5	14.3	12.1
19.2	10.8	14.6	13.7	15.2	15.8
18.1	10.5	13.9	13.2	15.1	13.7
19.4	10.3	14.7	13.6	16.2	12.7
17.4	10.1	14.2	13.1	14.8	13.3
16.4	8.3	15.5	13.5	15.6	13.9
16.4	8.7	12.0	11.4	12.2	9.5
17.4	12.0	16.8	16.3	18.4	12.7
16.8	10.0	13.1	13.5	14.3	12.6

[1]Data not included in the mean

PRELIMINARY TEST IIIA, 1983

Strain	Mean 5 Tests	Iowa Stuart	Ill. Urbana	Ind. Lafayette	KS Manhattan	Ohio S. Charleston
			PROTEIN (%)			
BSR 302	41.9	41.8	42.3	42.1	42.2	41.3
Century (II)	41.3	40.2	41.2	41.0	43.6	40.5
Cumberland (III)	39.7	37.8	40.3	39.9	39.7	40.6
Sparks (IV)	40.2	39.5	40.1	40.4	40.7	40.5
Oakland BC	40.6	40.5	39.7	40.7	41.5	40.8
Williams 82	41.0	40.1	40.3	40.9	42.5	41.2
A78-268022	41.0	40.8	41.0	40.4	41.8	40.9
A82-361011	38.3	38.1	37.7	36.7	40.8	38.3
A82-363006	39.0	39.9	37.5	38.4	40.4	39.0
A82-363015	37.9	37.5	37.2	37.3	40.0	37.3
A82-363031	40.6	39.7	40.2	40.9	41.7	40.7
A82-363032	40.3	38.9	40.1	40.9	41.1	40.4
A82-364015	38.9	37.8	39.0	38.8	39.7	39.0
A82-365009	39.0	38.8	38.0	38.9	40.9	38.6
A82-365023	39.4	39.4	38.5	39.4	40.0	39.5
A82-365028	38.7	38.4	38.2	38.2	39.2	39.3
A82-367021	40.6	41.9	40.2	38.5	42.3	40.3
A82-368007	41.2	39.5	40.3	40.2	44.1	42.0
A82-368011	41.4	41.8	41.8	41.9	42.5	39.0
A82-368028	41.3	41.0	41.7	40.7	42.2	41.1
A82-368033	41.2	41.4	40.6	40.6	42.7	40.8
S80-265	40.8	38.9	41.3	41.4	41.3	40.9
S80-285	40.9	39.3	40.1	41.5	41.7	41.9
Hobbit	38.0	37.8	37.5	36.7	38.7	39.3
HC78-265	42.5	42.1	41.9	41.5	44.3	42.9
HC78-352	42.1	42.0	41.2	41.0	43.7	42.6
HC78-2510	38.0	37.2	36.5	37.8	38.9	39.6
HC78-2836	41.5	40.3	42.6	41.3	41.7	41.7
HC78-2894	41.1	40.5	40.8	40.6	42.9	40.9
HC78-3128	40.1	38.8	40.5	39.8	40.8	40.4
HC79-1233	42.1	42.3	43.0	40.8	42.1	42.5
HC79-1630	40.7	40.4	40.4	40.2	42.2	40.5
HC79-1640	39.7	39.2	38.3	39.5	40.8	40.5
HC79-1642	40.1	39.9	39.6	39.4	41.4	40.1
HC79-1713	39.7	39.2	39.0	39.5	40.4	40.4
HW8236	36.2	35.9	36.3	35.8	35.8	37.4
LN80-1563	39.6	39.9	38.9	38.9	40.0	40.2
LN80-14346	40.1	40.2	39.4	39.0	41.9	40.2
U86120	39.6	38.8	39.5	39.8	39.8	40.3

PRELIMINARY TEST IIIA, 1983

Strain	Mean 5 Tests	Iowa Stuart	Ill. Urbana	Ind. Lafayette	KS Manhattan	Ohio S. Charleston
			OIL (%)			
BSR 302	20.4	20.8	20.0	20.4	20.3	20.5
Century (II)	21.6	21.9	22.2	21.5	20.6	21.6
Cumberland (III)	23.5	25.0	22.5	23.8	23.2	22.9
Sparks (IV)	22.1	22.8	21.6	22.1	21.4	22.4
Oakland BC	22.3	22.6	22.7	22.0	21.9	22.3
Williams 82	22.2	22.7	22.5	22.6	21.1	22.0
A78-268022	22.5	23.1	22.1	23.3	21.8	22.4
A82-361011	22.8	22.7	23.7	23.4	21.9	22.4
A82-363006	22.8	23.7	22.9	23.9	21.8	22.6
A82-363015	23.5	24.0	23.6	23.3	22.7	23.8
A82-363031	21.8	22.7	21.9	21.6	21.3	21.7
A82-363032	22.8	23.8	22.9	22.2	22.8	22.5
A82-364015	23.2	23.6	23.0	23.2	23.3	23.1
A82-365009	22.1	22.3	22.1	21.9	21.8	22.5
A82-365023	22.2	23.2	21.9	22.5	21.6	21.9
A82-365028	23.7	24.0	23.8	23.3	23.6	23.7
A82-367021	21.8	20.8	22.1	23.2	21.5	21.5
A82-368007	21.3	22.2	21.8	21.5	19.8	21.1
A82-368011	21.7	21.9	21.2	21.9	21.3	22.4
A82-368028	22.1	22.0	22.8	22.4	21.6	21.8
A82-368033	21.6	22.6	21.4	22.3	19.9	21.6
S80-265	21.9	22.1	21.7	21.7	22.2	21.9
S80-285	21.7	21.6	21.9	21.3	21.8	21.7
Hobbit	23.3	23.9	23.8	23.6	22.7	22.6
HC78-265	22.3	22.5	22.5	22.1	21.5	21.9
HC78-352	22.3	22.2	22.9	22.1	22.1	22.1
HC78-2510	23.7	24.7	23.8	23.9	23.1	22.9
HC78-2836	22.0	22.1	21.6	22.2	22.1	22.2
HC78-2894	22.2	22.4	22.6	22.2	21.8	22.1
HC78-3128	22.6	23.2	22.8	22.8	22.4	21.8
HC79-1233	21.3	21.7	20.9	22.0	21.3	20.8
HC79-1630	22.7	22.8	23.0	22.3	22.5	22.8
HC79-1640	22.9	23.6	22.7	22.7	22.3	23.1
HC79-1642	23.4	23.4	23.6	23.6	22.9	23.3
HC79-1713	23.3	23.6	23.2	23.2	23.2	23.3
HW8236	24.4	24.4	24.9	24.2	24.6	23.8
LN80-1563	23.1	22.7	23.6	23.5	23.1	22.5
LN80-14346	21.9	22.1	22.6	22.4	20.7	21.5
U86120	21.1	22.1	20.5	21.5	20.4	20.8

PRELIMINARY TESTS IIIA AND IIIB, 1983

Preliminary Test IIIA

Several strains in this test have good yield potential and/or unique characteristics. A82-361011 yielded very well for an early maturing Group III strain. A82-365028 was a high yielding mid-Group III strain. HC78-2836 averaged nearly 2 bushels per acre higher in yield than Hobbit and matured about 3 days later than Hobbit.

Oakland BC has the genes $\underline{Rps}_1^b$, $\underline{Rps}_3$ and is resistant to races 1 through 9, 11, 13 though 18, and 21 and 22 of *P. megasperma* f. sp. *glycinea*. Several strains, HC78-352, HC78-3128, HC79-1630, HC79-1713, and LN80-1563 have very low iron chlorosis scores. The strains A80-364015, A82-367021, A82-368028, and A82-368033 were all equal or superior to BSR 302 in yield and in resistance to brown stem rot.

Preliminary Test IIIB

In this test C1623 was the highest yielding entry and this strain also had excellent shattering resistance. The strains L79-3971 and L80-2847 are resistant to race 3 of the SCN, and the strains L80-3049 through L80-3159 and L80-4217 are resistant to races 3 and 4 of the SCN. Some of these were equal to the check varieties in yield. The high protein strain L80-474 averaged 45.1 percent protein in these tests. Several straines had high incidences of both hard seeds and seeds with green color in the seedcoats.

PRELIMINARY TEST IIIB, 1983

Strain		Parentage	Generation Composited
1.	BSR 302	(Beeson x AP68-1016) x (L15 x Calland)	F_4
2.	Century (II)	Calland x Bonus	F_6
3.	Cumberland (III)	Corsoy x$_2$Williams	F_4
4.	Fayette	Williams^2 x PI 88.788	F_4
5.	Sparks (IV)	Williams x Calland	F_6
6.	Williams 82	Williams^7 x Kingwa	$4BC_6$ F_3
7.	C1618	Harcor x Century	F_5
8.	C1619	Harcor x Cumberland	F_5
9.	C1620	Harcor x Cumberland	F_5
10.	C1622	Harcor x L69U37-17-5	F_5
11.	C1623	Harcor x L69U37-17-5	F_5
12.	C1626	Century x Hodgson	F_5
13.	C1630	Hodgson x Cumberland	F_5
14.	C1631	Hodgson x Cumberland	F_5
15.	C1633	Weber x Century	F_5
16.	C1634	Union x Century	F_5
17.	HW8231	A76-202015 x A76-304020	F_6
18.	HW8232	(Soysota x T215) x A76-304020	F_5
19.	HW8233	(Pella x Cumberland) x (Tracy x Williams)	F_5
20.	HW8234	(Pella x Cumberland) x (Tracy x Williams)	F_5
21.	HW8235	Century x (Tracy x Williams)	F_5
22.	L79-3971	Union x L75-8020	F_8
23.	L80-474	Williams x M69-45	F_6
24.	L80-2847	Union x L75-8020	F_9
25.	L80-3049	Williams^2 x PI 88.788	F_6
26.	L80-3057	Williams^2 x PI 88.788	F_6
27.	L80-3145	L75-8003 x (Williams x PI 88.788)	F_6
28.	L80-3159	L75-8003$_2$x (Williams x PI 88.788)	F_6
29.	L80-3778	Williams$_2^2$ x Raiden (PI 360.844)	F_7
30.	L80-4217	Williams^2 x PI 88.788	F_6
31.	LG80-751	Williams x Essex	F_4
32.	LN80-8234	A76-304020 x Land O'Lakes Max	F_4
33.	LN80-8259	A76-304020 x Land O'Lakes Max	F_4
34.	LN80-8268	A76-304020 x Land O'Lakes Max	F_4
35.	LN80-8290	A76-304020 x Land O'Lakes Max	F_4
36.	LN80-8653	Schechinger S48 x A76-304020	F_4
37.	LN80-9706	Hardin x A76-304020	F_4
38.	LN80-9709	Hardin x A76-304020	F_4
39.	LN80-9714	Hardin x A76-304020	F_4
40.	LN80-11155	A76-202015 x A76-304020	F_4

PRELIMINARY TEST IIIB, 1983

Descriptive and Other Data

Strain	Descriptive Code	Chlorosis Score	Shattering Score	
		Ames	Manhattan	Urbana
BSR 302	WGBr DYBf I	2.8	1.0	3.5
Century (II)	PTBr SYB1 I	2.7	2.0	3.0
Cumberland	PGBr SYIb I	3.2	1.0	1.5
Fayette	WTT SYB1 I	3.0	1.0	2.0
Sparks (IV)	WTT SYB1 I	1.8	1.0	2.0
Williams 82	WTT SYB1 I	3.0	1.0	1.0
C1618	PGBr DYIb I	1.5	2.0	4.0
C1619	PTT DYB1+Gr I	4.5	1.0	2.0
C1620	PTT IYBr I	3.5	1.0	2.0
C1622	PGBr SYBf I	2.0	1.0	2.0
C1623	PGBr SYBf I	3.8	1.0	1.0
C1626	PTBr DYB1 I	3.3	1.0	3.5
C1630	PGBr DYBf I	3.0	1.0	3.0
C1631	PGT DYBf I	3.5	1.0	1.5
C1633	WTBr DYB1 I	2.0	1.0	3.5
C1634	PTBr SYB1 I	3.2	1.0	2.5
HW8231	PTBr DYB1 I	3.7	1.0	2.0
HW8232	PTT DYB1 I	4.0	1.0	2.0
HW8233	WTT IYB1 I	4.2	1.0	2.0
HW8234	P+WTBr IYB1 I	4.5	1.0	1.5
HW8235	P+WTBr SYB1 I	2.3	1.0	2.0
L79-3971	WTT SYB1 I	2.2	1.0	2.0
L80-474	WTT DYBr I	3.0	1.0	2.0
L80-2847	WGT IYBf I	3.7	1.0	1.0
L80-3049	WTT IYB1 I	3.0	1.0	2.0
L80-3057	WTT IYB1 I	3.2	1.0	2.5
L80-3145	WGT SYBf I	3.3	1.0	1.0
L80-3159	WTT DYB1 I	3.5	1.0	1.5
L80-3778	WTT SYB1 I	2.7	1.0	1.5
L80-4217	WTT SYB1 I	2.5	1.0	2.5
LG80-751	P+WTT IYB1 I	2.7	1.0	2.0
LN80-8234	PTBr DYB1 D	3.2	2.0	3.0
LN80-8259	PTBr SYB1 I	2.3	2.0	3.0
LN80-8268	PTBr SYB1 I	1.5	2.0	4.0
LN80-8290	PTBr SYB1 I	3.5	1.0	3.0
LN80-8653	PGBr DYGr+Y I	2.8	1.0	2.5
LN80-9706	PGBr DYBf I	2.7	1.0	3.5
LN80-9709	PTBr DYBr I	2.3	1.0	2.5
LN80-9714	PGBr DYY I	2.3	2.0	4.0
LN80-11155	PTBr DYB1 I	3.7	1.0	2.0

PRELIMINARY TEST IIIB, 1983

Disease Data

BSR			PR_1
Ames		Lafayette	Lafayette
Plant	Stem	Stem	a
n %	n %	n %	---Reaction---
100	38.9	40	R
100	62.1	0	R
100	53.3	20	S
100	30.3	0	H
100	74.2	0	R
100	73.5	60	R
100	51.4	20	R
100	32.3	40	R
100	64.4	40	R
100	84.9	20	H
100	82.9	20	R
100	54.3	80	H
100	67.5	0	S
100	50.0	20	H
100	56.4	40	R
100	70.2	60	R
100	67.0	60	S
100	80.6	60	R
100	79.9	20	R
100	90.3	100	R
100	85.9	60	R
100	74.2	100	S
100	70.2	80	S
100	73.8	60	R
100	57.8	40	R
100	75.0	20	R
100	65.9	20	S
100	70.2	80	H
100	47.9	80	S
100	55.7	80	H
100	77.5	40	S
90	27.6	0	R
90	24.9	0	R
100	42.5	40	R
100	30.3	60	H
100	12.5	0	R
100	24.6	0	R
50	19.4	0	R
100	55.7	0	R
100	100.0	20	H

PRELIMINARY TEST IIIB, 1983

Disease Data

Strain	PS	PSB	SVM	Germ	Hard Seeds	Green Seeds
	Lafayette					
	a %	n %	a Score	%	%	%
BSR 302	15	3	4	80	7	5
Century (II)	7	1	4E	78	14	8
Cumberland	6	4	4	83	6	2
Fayette	5	7	5	82	0	0
Sparks (IV)	8	10	4	76	0	0
Williams 82	5	2	4E	93	0	0
C1618	14	6	4	50	40	10
C1619	10	10	5	66	17	0
C1620	8	3	5	76	13	3
C1622	0	2	4	68	12	0
C1623	11	2	5	66	6	2
C1626	7	10	5	58	12	12
C1630	25	2	5	81	9	0
C1631	7	3	3	81	8	0
C1633	2	3	5	83	5	0
C1634	0	5	4	64	18	1
HW8231	8	4	3	62	9	0
HW8232	4	2	4	74	8	0
HW8233	17	0	5	59	27	0
HW8234	0	1	4	78	15	0
HW8235	5	0	3M	56	25	2
L79-3971	10	8	3M	76	5	1
L80-474	20	2	2M	91	1	1
L80-2847	17	4	1	89	3	2
L80-3049	3	10	1	86	0	1
L80-3057	8	1	3M	77	0	4
L80-3145	11	2	2M	86	2	1
L80-3159	5	4	1	95	0	1
L80-3778	19	3	3	81	0	0
L80-4217	3	3	3	90	0	1
LG80-751	6	1	4	95	0	2
LN80-8234	8	2	5	83	1	37
LN80-8259	7	8	4	71	8	22
LN80-8268	1	3	4	59	18	2
LN80-8290	0	4	4	51	29	25
LN80-8653	14	2	2	62	18	13
LN80-9706	7	0	2	47	38	40
LN80-9709	5	2	4	36	58	17
LN80-9714	15	2	5	67	17	33
LN80-11155	11	9	4	49	18	1

PRELIMINARY TEST IIIB, 1983

Regional Summary

Strain	Yield	Rank	Maturity	Lodging	Plant Height	Seed Quality	Seed Size	Composition Protein	Composition Oil
No. of Test	9 bu/a	9 No.	8 Date	9 Score	9 In.	9 Score	8 g/100	5 %	5 %
BSR 302	39.6	39	-0.2	2.1	39	2.4	15.4	42.3	20.3
Century (II)	45.3	10	-6.1	1.1	30	2.1	17.0	41.3	21.6
Cumberland (III)	43.9	22	9-25.8*	1.5	36	2.2	16.4	39.6	23.2
Fayette	42.7	30	+2.2	1.6	40	1.8	14.4	41.7	21.9
Sparks (IV)	44.0	21	+4.2	2.2	40	2.0	15.5	39.8	22.1
Williams 82	44.1	19	+2.1	1.5	39	2.1	15.2	40.4	22.5
C1618	42.1	34	-7.6	1.2	31	2.6	15.8	39.4	22.4
C1619	42.6	32	-0.5	1.8	37	2.3	14.3	40.4	21.6
C1620	40.9	37	-0.5	2.3	44	2.0	13.2	40.3	22.2
C1622	45.6	6	-0.6	1.8	38	2.2	15.7	38.4	23.1
C1623	49.1	1	+1.2	1.8	37	2.4	15.9	39.4	21.6
C1626	45.6	6	-6.6	1.3	32	2.5	16.9	39.4	23.0
C1630	45.5	8	-0.4	1.8	38	2.3	17.2	38.0	23.2
C1631	47.0	3	-0.5	1.6	36	2.0	17.9	40.6	21.9
C1633	42.9	28	-0.9	1.8	39	2.0	12.4	40.4	21.7
C1634	44.6	15	+0.6	1.8	40	1.9	15.9	41.9	21.1
HW8231	44.1	19	+0.5	1.4	35	2.3	17.7	39.7	22.2
HW8232	44.2	18	-2.5	1.3	33	2.3	17.9	39.1	22.9
HW8233	47.3	2	-0.8	1.5	35	2.1	17.8	43.3	22.3
HW8234	44.5	16	-0.5	1.1	25	2.1	17.4	41.7	22.0
HW8235	46.6	4	+2.2	1.5	37	2.1	16.4	42.1	21.3
L79-3971	42.0	36	+0.8	1.4	38	2.0	16.3	40.5	22.4
L80-474	40.2	38	+2.1	1.7	37	2.0	15.9	45.1	20.2
L80-2847	43.6	24	-0.1	1.6	38	1.7	15.1	40.1	22.1
L80-3049	45.5	8	-3.1	1.3	32	2.1	16.0	41.0	22.4
L80-3057	45.2	12	+1.2	1.4	35	2.2	16.1	41.7	21.9
L80-3145	42.1	34	-4.1	1.5	39	1.9	14.8	42.4	21.8
L80-3159	42.8	29	-3.5	1.2	36	1.9	13.5	40.2	22.4
L80-3778	45.3	10	-3.9	1.1	31	2.1	18.3	38.9	22.7
L80-4217	44.9	13	-1.2	1.4	37	1.7	15.4	40.8	22.6
LG80-751	43.5	25	+3.9	1.7	35	2.1	13.9	41.5	21.1
LN80-8234	42.7	30	-5.0	2.0	39	2.4	15.6	41.4	21.4
LN80-8259	45.8	5	-4.0	1.5	36	2.3	14.9	39.6	21.8
LN80-8268	43.5	25	-3.6	1.5	38	2.4	16.8	41.5	21.1
LN80-8290	42.5	33	-2.0	1.6	37	2.4	15.9	41.1	21.0
LN80-8653	44.7	14	-2.2	1.5	36	2.4	16.9	40.9	22.1
LN80-9706	43.4	27	-3.2	1.7	37	2.4	14.8	39.9	22.2
LN80-9709	44.4	17	-4.1	1.9	35	2.3	14.7	39.0	22.2
LN80-9714	39.1	40	-8.6	2.0	35	2.6	14.2	40.3	21.2
LN80-11155	43.9	22	+0.6	1.3	32	2.4	17.5	40.2	22.2

*129 Days after planting

PRELIMINARY TEST IIIB, 1983

Strain	Mean 9 Tests	Iowa		Ill.	Ind.
		Ottumwa	Stuart	Urbana	Lafayette
		YIELD (bu/a)			
BSR 302	39.6	32.4	51.7	37.8	45.5
Century (II)	45.3	25.2	54.5	45.8	45.7
Cumberland (III)	43.9	32.4	53.6	46.4	49.9
Fayette	42.7	30.2	47.1	43.3	54.3
Sparks (IV)	44.0	30.3	52.4	44.9	51.7
Williams 82	44.1	35.3	44.6	44.5	49.6
C1618	42.1	11.4	53.9	40.9	42.5
C1619	42.6	29.8	54.6	48.4	47.0
C1620	40.9	29.7	49.2	41.0	39.4
C1622	45.6	25.8	52.8	46.2	46.8
C1623	49.1	31.6	58.1	52.0	52.0
C1626	45.6	28.5	51.4	39.5	45.2
C1630	45.5	32.1	55.5	40.5	48.1
C1631	47.0	34.5	58.7	37.9	52.8
C1633	42.9	30.2	52.4	41.9	46.4
C1634	44.6	32.8	50.9	38.0	46.6
HW8231	44.1	33.0	50.0	43.0	47.9
HW8232	44.2	30.0	54.0	42.9	42.6
HW8233	47.3	35.2	55.2	46.1	51.6
HW8234	44.5	30.4	55.6	43.9	43.4
HW8235	46.6	34.5	49.5	47.6	51.6
L79-3971	42.0	28.9	45.8	42.9	50.2
L80-474	40.2	31.0	49.4	36.7	50.8
L80-2847	43.6	27.2	50.1	47.3	50.4
L80-3049	45.5	26.9	54.3	47.3	58.9
L80-3057	45.2	32.1	51.0	41.5	58.9
L80-3145	42.1	28.8	47.6	36.4	49.6
L80-3159	42.8	30.8	50.1	42.3	44.2
L80-3778	45.3	29.8	53.5	46.9	48.7
L80-4217	44.9	23.9	51.7	40.7	53.1
LG80-751	43.5	33.2	49.8	43.2	53.3
LN80-8234	42.7	24.8	50.5	40.4	48.3
LN80-8259	45.8	28.2	54.3	44.5	53.2
LN80-8268	43.5	29.4	50.9	36.3	53.0
LN80-8290	42.5	27.2	49.3	36.5	50.7
LN80-8653	44.7	28.7	54.1	39.9	55.8
LN80-9706	43.4	23.1	50.1	41.0	52.7
LN80-9709	44.4	23.2	52.7	39.6	54.3
LN80-9714	39.1	17.4	46.9	36.9	44.0
LN80-11155	43.9	29.6	53.5	37.2	45.9
C.V. (%)		9.4	3.8	9.7	6.4
L.S.D. (5%)		5.4	3.9	8.3	6.3
Row sp. (in.)		27	27	30	24
Rows/plot		4	4	4	4
Reps		2	2	2	2

PRELIMINARY TEST IIIB, 1983

Kansas	Kentucky[1]	Neb.	Ohio		S.D.
Manhattan	Lexington	Mead	Hoytville	S. Charleston	Elk Point
		YIELD (bu/a)			
44.1	10.1	38.6	38.0	44.9	23.4
53.7	10.7	56.0	42.6	45.3	39.0
52.5	8.3	48.5	35.4	48.0	28.4
50.3	12.0	43.2	41.3	51.0	23.2
60.6	11.3	42.0	40.7	53.7	19.4
54.1	11.3	41.8	46.7	55.6	24.5
54.9	9.6	49.2	37.2	59.7	29.5
47.4	9.5	43.9	34.9	54.2	23.2
52.6	12.4	42.4	35.2	52.6	25.9
65.3	10.3	47.6	29.2	66.6	30.3
63.9	11.0	49.3	37.2	67.5	30.5
58.8	11.9	50.7	42.5	59.0	35.0
53.9	13.5	43.9	43.6	62.4	29.9
54.0	10.6	48.7	41.6	64.7	30.1
53.2	12.8	45.2	32.4	60.2	24.3
56.7	11.5	45.7	42.7	59.7	28.4
54.8	10.7	44.0	42.4	59.3	22.5
54.4	11.6	46.6	34.7	66.4	25.8
54.4	11.9	46.4	45.9	63.3	27.9
48.5	13.1	43.9	46.1	69.0	19.6
58.4	11.0	42.3	45.3	65.8	24.2
50.7	12.4	41.3	35.6	55.1	27.3
44.8	10.5	41.4	33.0	54.7	20.3
49.8	8.8	45.9	40.0	54.1	27.8
43.6	10.8	50.8	43.5	64.7	19.8
50.6	13.1	48.7	44.9	60.7	18.6
51.2	13.6	43.4	40.8	53.5	27.6
39.4	14.7	50.0	45.3	60.2	22.9
49.8	10.1	49.1	39.0	58.9	32.1
48.7	12.6	47.1	45.5	68.0	25.1
53.0	12.2	35.8	40.9	60.7	21.7
47.1	8.9	46.9	39.5	56.7	30.0
53.2	11.4	49.8	40.5	55.4	33.4
49.2	9.6	49.7	38.9	56.0	28.5
50.7	8.5	45.8	41.1	50.9	30.4
52.0	12.8	50.8	30.6	59.4	31.3
50.9	11.8	48.7	41.7	53.3	28.8
53.5	7.4	50.4	43.3	50.9	32.1
42.6	9.5	47.9	41.5	47.8	27.3
51.6	9.7	44.5	44.1	61.4	27.4
9.0	16.8	5.1	10.6	14.5	11.6
9.4	3.8	4.8	8.5	N.S.	6.2
30	30	30	15	30	30
4	4	4	5	4	4
2	2	2	2	2	2

[1] Data not [illegible]

PRELIMINARY TEST IIIB, 1983

Strain		Iowa		Ill.	Ind.
		Ottumwa	Stuart	Urbana	Lafayette
		YIELD RANK			
BSR 302	39	8	20	34	33
Century (II)	10	34	7	10	32
Cumberland (III)	22	8	13	7	20
Fayette	30	17	37	15	4
Sparks (IV)	21	16	18	11	13
Williams 82	19	1	40	12	21
C1618	34	40	12	25	39
C1619	32	20	6	2	27
C1620	37	22	35	23	40
C1622	6	33	16	8	28
C1623	1	12	2	1	12
C1626	6	28	22	31	34
C1630	8	10	4	27	25
C1631	3	3	1	33	10
C1633	28	17	18	21	30
C1634	15	7	24	32	29
HW8231	19	6	30	17	26
HW8232	18	19	11	18	38
HW8233	2	2	5	9	14
HW8234	16	15	3	14	37
HW8235	4	3	32	3	14
L79-3971	36	25	39	18	19
L80-474	38	13	33	37	16
L80-2847	24	30	27	4	18
L80-3049	8	32	8	4	1
L80-3057	12	10	23	22	1
L80-3145	34	26	36	39	21
L80-3159	29	14	27	20	35
L80-3778	10	20	14	6	23
L80-4217	13	36	20	26	8
LG80-751	25	5	31	16	6
LN80-8234	30	35	26	28	24
LN80-8259	5	29	8	12	7
LN80-8268	25	24	24	40	9
LN80-8290	33	30	34	38	17
LN80-8653	14	27	10	29	3
LN80-9706	27	38	27	23	11
LN80-9709	17	37	17	30	4
LN80-9714	40	39	38	36	36
LN80-11155	22	23	14	35	31

PRELIMINARY TEST IIIB, 1983

Kansas	Kentucky	Neb.	Ohio		S.D.
Manhattan	Lexington	Mead	Hoytville	S. Charleston	Elk Point
		YIELD RANK			
37	29	39	29	40	30
14	24	1	13	39	1
20	39	15	33	37	16
28	12	32	19	34	31
3	19	35	23	30	39
11	19	36	1	24	27
7	32	10	30	16	13
34	34	28	35	28	31
19	9	33	34	33	24
1	28	17	40	4	9
2	21	9	30	3	7
4	13	4	14	20	2
13	3	28	9	10	12
12	26	12	17	7	10
16	6	25	38	14	28
6	17	24	12	16	16
8	24	27	15	19	34
9	16	20	36	5	25
9	13	21	3	9	18
33	4	28	2	1	38
5	21	34	5	6	29
25	9	38	32	26	22
36	27	37	37	27	36
29	37	22	25	29	19
38	23	2	10	7	37
27	4	12	7	12	40
23	2	31	22	31	20
40	1	6	5	14	33
29	29	11	27	21	4
32	8	18	4	2	26
18	11	40	21	12	35
35	36	19	26	22	11
16	18	7	24	25	3
31	32	8	28	23	15
25	38	23	20	35	8
21	6	2	39	18	6
24	15	12	16	32	14
15	40	5	11	35	4
39	34	16	18	38	22
22	31	26	8	11	21

PRELIMINARY TEST IIIB, 1983

Strain	Mean 8 Tests	Iowa		Ill.	Ind.
		Ottumwa	Stuart	Urbana	Lafayette
		MATURITY (date)			
BSR 302	-0.2		0	-4	+1
Century (II)	-6.1		-11	-8	-1
Cumberland (III)	9-25.8		9-26	9-30	9-18
Fayette	+2.2		+1	-1	+4
Sparks (IV)	+4.2		+2	+3	+6
Williams 82	+2.1		0	+1	+3
C1618	-7.6		-9	-11	-4
C1619	-0.5		-2	-2	+1
C1620	-0.5		0	-6	-3
C1622	-0.6		-2	-3	-1
C1623	+1.2		0	-2	+3
C1626	-6.6		-10	-9	-2
C1630	-0.4		0	-2	+2
C1631	-0.5		-1	-3	+2
C1633	-0.9		0	-6	+2
C1634	+0.6		0	-4	+2
HW8231	+0.5		-2	-2	+2
HW8232	-2.5		-6	-5	-1
HW8233	-0.8		-2	-5	+1
HW8234	-0.5		-4	-3	+3
HW8235	+2.2		0	-1	+3
L79-3971	+0.8		0	-3	+2
L80-474	+2.1		0	-2	+6
L80-2847	-0.1		0	-2	+3
L80-3049	-3.1		-6	-4	0
L80-3057	+1.2		-2	-5	+2
L80-3145	-4.1		-6	-8	0
L80-3159	-3.5		-4	-4	0
L80-3778	-3.9		-6	-7	0
L80-4217	-1.2		0	-6	0
LG80-751	+3.9		+2	+1	+10
LN80-8234	-5.0		-7	-10	-2
LN80-8259	-4.0		-6	-6	-2
LN80-8268	-3.6		-6	-8	-1
LN80-8290	-2.0		-1	-8	0
LN80-8653	-2.2		-2	-8	0
LN80-9706	-3.2		-6	-8	+1
LN80-9709	-4.1		-6	-11	-1
LN80-9714	-8.6		-12	-11	-4
LN80-11155	+0.6		0	-3	+3
Date Planted	5-20	5-11	5-10	5-30	5-11
Days to Mature	129		139	123	130

PRELIMINARY TEST IIIB, 1983

Kansas	Kentucky[1]	Neb.	Ohio		S.D.
Manhattan	Lexington	Mead	Hoytville	S. Charleston	Elk Point
		MATURITY (date)			
-1	+3	+1	0	+1	0
-11	-9	-7	-7	-7	-7
9-23	9-17	9-27	9-24	9-18	10-11
+2	F	+1	+4	+4	+3
+3	F	+2	+6	+6	+6
+4	+4	+1	+4	+4	0
-8	-7	-9	-6	-4	-10
-1	0	0	0	+2	-2
+2	+4	+1	-1	+3	0
+1	-3	-1	0	+3	-2
+3	+3	-1	+3	+5	-1
-8	-9	-7	-7	-3	-7
+2	-1	0	+2	+3	-4
-1	-4	-1	+1	+2	-3
-3	-1	-1	0	+1	0
+2	+3	0	+4	+5	-4
+2	F	0	+2	+2	0
-1	-3	-2	-2	-2	-1
-2	+4	0	+4	0	-2
0	+4	0	+1	+3	-4
+3	F	+1	+4	+8	0
+3	F	0	+1	+3	0
+6	+4	+2	+3	+3	-1
0	F	-1	-2	+1	0
-4	-1	-2	-3	-2	-4
-3	-3	0	0	-1	-1
-4	+1	-6	-5	-2	-2
-7	0	-3	-3	-1	-6
-3	-3	-3	-6	-4	-2
-1	+4	-1	+1	0	-3
+4	F	+2	+5	+6	+1
-6	F	-6	-4	-2	-3
-6	0	-4	-3	-3	-2
-3	-4	-3	-3	-2	-3
-4	+3	-1	0	-1	-1
-4	+3	-2	0	-1	-1
-4	-3	-2	-2	-2	-3
-2	-9	-3	-3	-2	-5
-9	-7	-9	-8	-7	-9
+1	F	0	+3	+1	0
5-9	5-28	5-24	6-1	5-13	5-31
137	112	126	115	128	133

[1] Data not included in the mean

PRELIMINARY TEST IIIB, 1983

Strain	Mean 9 Tests	Iowa		Ill.	Ind.
		Ottumwa	Stuart	Urbana	Lafayette
		LODGING (score)			
BSR 302	2.1	1.9	3.0	1.4	2.5
Century (II)	1.1	1.1	1.1	1.0	1.0
Cumberland (III)	1.5	1.2	1.4	1.2	1.0
Fayette	1.6	1.3	1.6	1.3	1.0
Sparks (IV)	2.2	2.0	2.6	1.9	2.3
Williams 82	1.5	1.2	1.5	1.2	1.0
C1618	1.2	1.0	1.1	1.0	1.0
C1619	1.8	1.1	1.8	1.3	1.3
C1620	2.3	1.3	3.1	1.3	2.3
C1622	1.8	1.1	1.8	1.3	1.8
C1623	1.8	1.2	2.0	1.2	1.5
C1626	1.3	1.1	1.2	1.1	1.0
C1630	1.8	1.2	2.2	1.2	2.3
C1631	1.6	1.1	1.4	1.2	1.5
C1633	1.8	1.1	2.0	1.2	2.0
C1634	1.8	1.2	1.9	1.3	1.5
HW8231	1.4	1.2	1.3	1.2	1.0
HW8232	1.3	1.2	1.3	1.1	1.0
HW8233	1.5	1.3	1.4	1.3	1.0
HW8234	1.1	1.1	1.1	1.1	1.0
HW8235	1.5	1.4	1.3	1.2	1.0
L79-3971	1.4	1.2	1.5	1.2	1.0
L80-474	1.7	1.3	1.7	1.2	1.5
L80-2847	1.6	1.2	1.5	1.3	2.0
L80-3049	1.3	1.2	1.2	1.2	1.0
L80-3057	1.4	1.3	1.3	1.2	1.0
L80-3145	1.5	1.4	1.2	1.2	1.3
L80-3159	1.2	1.2	1.1	1.0	1.3
L80-3778	1.1	1.1	1.1	1.2	1.0
L80-4217	1.4	1.2	1.4	1.1	1.0
LG80-751	1.7	1.6	2.3	1.2	1.0
LN80-8234	2.0	1.7	2.0	1.3	1.8
LN80-8259	1.5	1.1	1.3	1.2	1.0
LN80-8268	1.5	1.2	1.7	1.3	1.0
LN80-8290	1.6	1.3	1.7	1.2	1.0
LN80-8653	1.5	1.2	1.3	1.2	1.0
LN80-9706	1.7	1.2	1.5	1.2	2.0
LN80-9709	1.9	1.1	2.4	1.2	1.5
LN80-9714	2.0	1.1	3.2	1.3	1.8
LN80-11155	1.3	1.2	1.3	1.2	1.0

PRELIMINARY TEST IIIB, 1983

Kansas	Kentucky[1]	Neb.	Ohio		S.D.
Manhattan	Lexington	Mead	Hoytville	S. Charleston	Elk Point
		LODGING (score)			
3.3	1.0	2.0	1.9	1.5	1.0
1.3	1.0	1.0	1.3	1.5	1.0
3.3	1.0	1.3	1.4	1.5	1.0
2.8	1.0	1.8	1.9	2.0	1.0
2.0	1.0	2.0	3.5	2.5	1.0
3.3	1.0	1.8	1.7	1.2	1.0
2.0	1.0	1.0	1.4	1.5	1.0
3.5	1.0	1.5	1.5	2.8	1.0
3.0	1.0	2.8	2.1	3.8	1.0
3.3	1.0	2.0	1.3	2.3	1.0
3.8	1.0	2.0	1.4	2.3	1.0
2.3	1.0	1.0	1.5	1.5	1.0
2.8	1.0	1.5	1.6	2.8	1.0
2.5	1.0	1.5	1.7	2.5	1.0
3.0	1.0	1.5	2.0	2.8	1.0
3.8	1.0	1.8	2.1	2.0	1.0
2.3	1.0	1.3	1.5	1.5	1.0
1.8	1.0	1.3	1.5	1.5	1.0
2.3	1.0	1.5	2.0	2.0	1.0
1.3	1.0	1.0	1.3	1.0	1.0
2.5	1.0	1.3	1.9	1.5	1.0
1.8	1.0	1.5	1.5	1.8	1.0
2.8	1.0	2.0	1.6	2.0	1.0
2.5	1.0	1.8	1.5	1.8	1.0
2.5	1.0	1.0	1.5	1.5	1.0
2.3	1.0	1.5	1.5	1.5	1.0
2.0	1.0	1.0	2.0	2.0	1.0
1.8	1.0	1.0	1.4	1.2	1.0
1.5	1.0	1.0	1.2	1.2	1.0
2.5	1.0	1.3	1.9	1.5	1.0
2.8	1.0	1.8	1.4	1.8	1.0
3.3	1.0	1.3	2.2	3.0	1.0
3.3	1.0	1.0	1.5	2.0	1.0
2.5	1.0	1.5	1.5	2.2	1.0
3.3	1.0	1.8	1.7	1.8	1.0
2.5	1.0	1.5	1.4	2.0	1.0
3.3	1.0	1.5	1.7	2.0	1.0
3.0	1.0	2.3	1.9	3.0	1.0
3.0	1.0	1.8	1.9	3.2	1.0
1.8	1.0	1.3	1.5	1.5	1.0

[1] Data not included in the mean

PRELIMINARY TEST IIIB, 1983

Strain	Mean 9 Tests	Iowa		Ill.	Ind.
		Ottumwa	Stuart	Urbana	Lafayette
		PLANT HEIGHT (inches)			
BSR 302	39	36	46	36	42
Century	30	22	33	29	32
Cumberland (III)	36	29	40	32	40
Fayette	40	34	44	37	45
Sparks (IV)	40	32	42	39	47
Williams 82	39	32	43	38	41
C1618	31	21	34	28	34
C1619	37	29	43	36	38
C1620	44	36	48	40	44
C1622	38	30	41	39	44
C1623	37	29	40	35	42
C1626	32	24	34	30	35
C1630	38	28	41	37	42
C1631	36	28	39	34	40
C1633	39	30	42	38	44
C1634	40	32	46	35	43
HW8231	35	28	40	33	37
HW8232	33	26	38	31	33
HW8233	35	29	39	34	38
HW8234	25	24	28	23	30
HW8235	37	32	40	34	39
L79-3971	38	29	43	39	41
L80-474	37	28	43	36	40
L80-2847	38	30	43	35	42
L80-3049	32	24	37	29	34
L80-3057	35	26	39	31	37
L80-3145	39	34	41	34	41
L80-3159	36	30	40	35	40
L80-3778	31	24	33	31	32
L80-4217	37	28	40	35	39
LG80-751	35	27	40	32	37
LN80-8234	39	34	40	38	40
LN80-8259	36	28	41	34	37
LN80-8268	38	32	44	36	41
LN80-8290	37	29	38	34	38
LN80-8653	36	27	42	32	39
LN80-9706	37	29	44	35	42
LN80-9709	35	24	40	31	36
LN80-9714	35	26	38	31	36
LN80-11155	32	27	36	30	31

PRELIMINARY TEST IIIB, 1983

Kansas	Kentucky	Neb.	Ohio		S.D.
Manhattan	Lexington[1]	Mead	Hoytville	S. Charleston	Elk Point
		PLANT HEIGHT (inches)			
40	23	40	41	37	32
32	20	32	31	36	21
39	19	39	35	39	30
41	21	44	43	42	31
33	26	43	42	44	36
44	20	43	40	41	30
33	23	33	29	39	25
44	21	41	33	39	32
51	27	49	41	45	40
37	24	41	35	41	32
44	26	41	30	41	29
33	22	32	35	40	29
40	28	42	36	41	31
35	22	39	35	42	31
44	25	41	42	44	27
42	25	45	40	46	29
37	23	39	37	39	24
37	22	38	29	41	27
33	22	37	39	40	28
21	23	24	30	32	15
40	23	39	40	41	25
37	22	42	38	42	33
39	22	45	31	40	29
39	23	41	36	41	33
32	19	34	35	35	27
37	22	38	37	39	30
38	25	42	42	41	34
32	25	39	37	40	33
30	20	31	32	34	28
38	22	38	40	41	31
40	23	36	33	41	29
41	21	39	44	41	30
39	20	37	36	40	29
39	23	42	36	42	31
42	24	42	38	42	29
38	25	41	31	39	34
39	23	40	36	42	28
36	18	39	37	39	29
36	23	39	39	39	29
31	24	37	30	37	28

[1] Data not included in the mean

PRELIMINARY TEST IIIB, 1983

Strain	Mean 9 Tests	Iowa		Ill.	Ind.
		Ottumwa	Stuart	Urbana	Lafayette
		SEED QUALITY (score)			
BSR 302	2.4		2.0	3.0	1.5
Century (II)	2.1		2.1	2.5	1.5
Cumberland (III)	2.2		1.6	2.8	1.5
Fayette	1.8		1.8	2.0	1.0
Sparks (IV)	2.0		2.1	1.8	1.0
Williams 82	2.1		1.5	2.0	1.0
C1618	2.6		2.1	3.8	1.5
C1619	2.3		1.7	2.0	1.0
C1620	2.0		1.5	1.5	1.5
C1622	2.2		1.8	2.3	1.5
C1623	2.4		2.0	2.5	1.5
C1626	2.5		2.2	3.0	2.0
C1630	2.3		2.0	2.8	1.5
C1631	2.0		1.9	2.0	1.5
C1633	2.0		2.0	2.3	1.0
C1634	1.9		1.7	2.3	1.0
HW8231	2.3		1.6	2.5	1.5
HW8232	2.3		1.8	2.5	1.5
HW8233	2.1		2.0	2.3	1.5
HW8234	2.1		1.9	2.5	1.0
HW8235	2.1		1.6	1.8	1.0
L79-3971	2.0		1.9	2.0	1.5
L80-474	2.0		1.6	1.5	1.5
L80-2847	1.7		2.0	1.8	1.5
L80-3049	2.1		1.8	2.8	1.5
L80-3057	2.2		1.9	3.0	1.5
L80-3145	1.9		1.9	3.0	1.5
L80-3159	1.9		1.9	2.5	1.0
L80-3778	2.1		1.9	3.0	1.5
L80-4217	1.7		1.6	2.3	1.5
LG80-751	2.1		1.4	3.0	1.5
LN80-8234	2.4		2.1	4.0	1.5
LN80-8259	2.3		2.0	3.3	1.5
LN80-8268	2.4		2.0	3.5	1.5
LN80-8290	2.4		2.0	3.0	1.5
LN80-8653	2.4		1.8	3.0	1.5
LN80-9706	2.4		2.1	3.0	1.5
LN80-9709	2.3		2.2	2.8	1.5
LN80-9714	2.6		2.0	3.0	1.5
LN80-11155	2.4		1.8	2.3	1.5

PRELIMINARY TEST IIIB, 1983

Kansas	Kentucky	Neb.	Ohio		S.D.
Manhattan	Lexington	Mead	Hoytville	S. Charleston	Elk Point
		SEED QUALITY (score)			
3.0	3.0	1.3	1.3	1.5	5.0
2.0	3.0	1.3	1.3	1.5	4.0
3.0	3.0	1.5	1.2	1.5	4.0
1.0	2.0	1.0	1.3	1.5	4.0
2.0	3.0	1.0	1.2	1.5	5.0
2.0	3.0	1.0	1.1	1.0	4.0
3.0	3.0	2.0	1.5	1.5	3.0
3.0	3.0	1.0	1.4	2.0	4.0
2.0	3.0	1.0	1.2	2.0	4.0
3.0	2.0	1.3	1.3	2.0	4.0
3.0	3.0	1.5	1.6	2.5	4.0
2.0	3.0	1.5	1.4	3.5	4.0
3.0	2.0	1.3	1.8	2.0	4.0
3.0	3.0	1.0	1.7	1.5	3.0
1.0	3.0	1.0	1.2	1.5	5.0
2.0	2.0	1.0	1.1	1.5	4.0
3.0	4.0	1.0	1.3	1.5	4.0
4.0	3.0	1.3	1.3	1.5	4.0
2.0	3.0	1.0	1.4	2.0	4.0
3.0	3.0	1.0	1.4	1.0	4.0
2.0	5.0	1.0	1.3	1.5	4.0
2.0	3.0	1.3	1.4	1.5	4.0
3.0	3.0	1.0	1.3	1.5	4.0
1.0	2.0	1.3	1.1	1.0	4.0
2.0	3.0	1.0	1.2	1.0	4.0
2.0	3.0	1.0	1.6	1.0	4.0
1.0	2.0	1.3	1.5	1.0	4.0
1.0	2.0	1.5	1.4	1.5	4.0
2.0	2.0	1.5	1.7	2.0	3.0
1.0	2.0	1.0	1.2	1.0	4.0
2.0	3.0	1.0	1.2	2.0	4.0
2.0	3.0	1.3	1.8	1.5	4.0
3.0	3.0	1.3	1.5	1.0	4.0
3.0	3.0	1.5	1.6	1.5	4.0
2.0	3.0	1.3	1.8	2.0	5.0
3.0	4.0	1.3	1.3	1.0	4.0
2.0	4.0	2.0	1.5	2.0	4.0
2.0	3.0	1.3	1.6	2.5	4.0
3.0	3.0	1.8	1.4	3.5	4.0
2.0	5.0	1.3	1.2	2.0	4.0

PRELIMINARY TEST IIIB, 1983

Strain	Mean 8 Tests	Iowa		Ill.	Ind.
		Ottumwa	Stuart	Urbana	Lafayette
		SEED SIZE (g/100)			
BSR 302	15.4		17.3	13.9	18.9
Century (II)	17.0		17.6	18.4	20.9
Cumberland (III)	16.4		17.9	16.6	19.1
Fayette	14.4		16.0	14.1	17.6
Sparks (IV)	15.5		17.3	14.3	18.4
Williams 82	15.2		15.6	15.3	18.0
C1618	15.8		16.3	17.1	17.5
C1619	14.3		16.8	13.2	15.4
C1620	13.2		14.2	12.5	14.4
C1622	15.7		15.6	15.2	17.1
C1623	15.9		17.0	14.9	18.2
C1626	16.9		17.3	16.5	19.7
C1630	17.2		18.5	16.3	19.4
C1631	17.9		19.1	15.8	21.1
C1633	12.4		13.3	12.2	14.1
C1634	15.9		17.0	14.8	18.5
HW8231	17.7		19.5	18.2	20.1
HW8232	17.9		19.1	17.5	20.5
HW8233	17.8		19.0	18.1	20.1
HW8234	17.4		18.0	17.9	20.6
HW8235	16.4		16.7	16.3	18.3
L79-3971	16.3		17.3	17.0	19.9
L80-474	15.9		17.1	16.0	19.6
L80-2847	15.1		15.6	15.0	19.3
L80-3049	16.0		16.6	16.6	20.2
L80-3057	16.1		15.6	16.3	21.1
L80-3145	14.8		15.2	14.1	17.8
L80-3159	13.5		13.4	13.9	15.3
L80-3778	18.3		19.2	17.6	20.5
L80-4217	15.4		15.5	15.6	18.4
LG80-751	13.9		13.0	13.7	16.3
LN80-8234	15.6		15.7	15.1	19.2
LN80-8259	14.9		15.2	14.8	17.7
LN80-8268	16.8		17.4	16.0	21.0
LN80-8290	15.9		16.8	16.0	18.9
LN80-8653	16.9		17.7	17.1	20.3
LN80-9706	14.8		15.6	15.1	17.0
LN80-9709	14.7		15.6	15.0	16.5
LN80-9714	14.2		13.5	14.9	16.7
LN80-11155	17.5		19.2	16.5	21.2

PRELIMINARY TEST IIIB, 1983

Kansas	Kentucky[1]	Neb.	Ohio		S.D.
Manhattan	Lexington	Mead	Hoytville	S. Charleston	Elk Point
		SEED SIZE (g/100)			
17.7	12.2	14.8	14.0	14.2	12.3
16.9	9.9	18.3	15.4	13.4	14.8
18.1	9.0	16.0	16.3	15.4	11.7
15.5	11.5	12.9	14.6	14.7	10.3
17.9	11.0	15.4	14.8	15.5	10.4
16.5	10.9	14.2	16.1	15.3	10.8
15.9	10.5	17.5	14.3	14.7	13.1
15.6	9.6	13.9	14.7	13.8	11.5
15.8	11.5	12.6	12.4	13.8	10.0
18.4	10.9	15.3	14.9	16.2	13.0
19.2	11.7	14.7	15.5	16.6	11.3
17.8	11.1	18.6	15.7	16.5	13.4
19.9	12.7	16.9	15.6	17.8	13.0
21.9	11.1	16.6	16.2	18.4	13.7
12.9	7.7	12.5	12.3	12.1	9.5
18.4	12.2	14.8	15.5	16.5	11.7
19.1	10.8	17.3	17.2	18.2	13.2
18.7	13.3	18.4	16.2	18.6	14.8
18.6	12.7	16.1	18.7	18.3	13.2
19.6	11.9	13.8	17.8	18.3	14.0
19.3	9.0	15.2	16.5	17.9	12.1
18.8	10.8	13.5	15.7	18.2	10.5
17.7	12.1	15.2	15.6	15.7	10.3
16.3	11.2	14.5	14.1	14.3	10.6
14.9	12.0	15.9	14.9	16.6	12.6
16.7	12.0	15.4	15.3	15.9	12.6
15.8	10.7	14.1	15.0	14.5	11.6
14.2	10.9	13.8	14.1	13.7	10.1
19.4	9.9	19.5	17.5	18.4	14.4
15.7	11.1	13.9	15.9	17.1	11.5
16.3	9.9	13.2	14.4	14.1	10.2
16.6	8.6	15.8	14.9	15.9	11.2
16.5	9.8	14.7	13.9	14.0	11.9
17.0	9.5	17.5	14.7	15.9	13.8
16.8	10.8	15.7	15.2	15.6	12.1
17.2	11.3	17.0	14.8	17.1	13.2
17.6	8.2	15.0	12.5	13.4	11.6
16.0	7.4	15.0	14.1	13.4	12.3
14.6	7.3	15.8	14.1	12.8	11.4
18.8	10.6	16.6	18.3	16.7	12.6

[1] Data not included in the mean

PRELIMINARY TEST IIIB, 1983

Strain	Mean 5 Tests	Iowa Stuart	Ill. Urbana	Ind. Lafayette	Kansas Manhattan	Ohio S. Charleston
			PROTEIN (%)			
BSR 302	42.3	41.5	42.1	42.2	42.4	43.5
Century (II)	41.3	40.4	41.0	40.3	42.5	42.3
Cumberland (III)	39.6	38.3	40.6	38.2	40.0	41.1
Fayette	41.7	41.2	41.2	40.6	42.3	43.1
Sparks (IV)	39.8	39.4	39.7	38.9	40.3	40.7
Williams 82	40.4	40.3	41.2	38.4	41.0	41.3
C1618	39.4	38.7	38.7	37.6	41.3	40.5
C1619	40.4	40.4	39.8	38.5	42.4	40.8
C1620	40.3	39.1	39.9	39.2	42.5	41.0
C1622	38.4	36.8	38.5	37.4	40.3	38.8
C1623	39.4	38.4	40.0	38.0	40.8	39.8
C1626	39.4	38.8	39.1	38.4	41.0	39.5
C1630	38.0	37.8	37.5	36.0	40.9	37.8
C1631	40.6	40.5	39.9	38.6	42.8	41.2
C1633	40.4	40.0	40.0	39.2	42.4	40.6
C1634	41.9	41.5	41.5	41.6	43.1	42.1
HW8231	39.7	39.9	41.2	37.0	40.6	39.6
HW8232	39.1	38.9	37.6	39.4	40.7	39.1
HW8233	43.3	41.9	42.8	41.1	42.7	43.0
HW8234	41.7	40.9	42.0	40.5	43.4	41.6
HW8235	42.1	41.0	42.7	40.3	43.4	43.0
L79-3971	40.5	40.2	40.7	39.6	42.0	40.1
L80-474	45.1	44.7	45.0	44.1	47.3	44.5
L80-2847	40.1	39.8	41.2	39.0	41.1	39.5
L80-3049	41.0	40.5	41.3	39.6	42.2	41.4
L80-3057	41.7	41.4	41.4	41.7	42.8	41.4
L80-3145	42.4	42.2	41.9	42.6	43.8	41.6
L80-3159	40.2	40.3	40.0	38.5	41.0	41.3
L80-3778	38.9	38.9	38.5	37.6	39.6	40.0
L80-4217	40.8	41.0	40.0	40.7	41.4	40.9
LG80-751	41.5	39.8	42.8	41.4	42.2	41.1
LN80-8234	41.4	41.4	41.3	42.0	42.3	40.0
LN80-8259	39.6	39.4	40.1	39.0	39.7	40.0
LN80-8268	41.5	41.3	42.3	41.0	42.7	40.2
LN80-8290	41.1	41.4	40.7	39.5	42.6	41.1
LN80-8653	40.9	40.7	41.1	39.9	41.7	41.0
LN80-9706	39.9	40.4	38.8	38.3	41.3	40.7
LN80-9709	39.0	39.5	37.5	37.2	40.1	40.9
LN80-9714	40.3	40.7	38.9	39.3	40.7	42.0
LN80-11155	40.2	39.6	39.3	40.2	40.9	40.9

PRELIMINARY TEST IIIB, 1983

Mean 5 Tests	Iowa Stuart	Ill. Urbana	Ind. Lafayette	Kansas Manhattan	Ohio S. Charleston
			OIL (%)		
20.3	20.6	20.4	20.9	20.5	19.3
21.6	22.4	22.1	22.1	21.0	20.2
23.2	24.1	22.8	23.7	23.2	22.2
21.9	22.2	22.3	22.0	21.8	21.2
22.1	22.7	21.3	22.1	22.1	22.1
22.5	22.4	22.6	23.5	21.8	22.1
22.4	22.8	23.4	22.8	21.6	21.4
21.6	22.2	21.2	22.6	21.2	21.0
22.2	22.1	22.6	22.5	21.8	21.8
23.1	23.5	23.4	23.2	22.6	22.7
21.6	22.1	20.9	22.4	21.5	21.2
23.0	23.2	23.9	23.6	21.6	22.5
23.2	23.6	23.0	24.6	21.9	22.9
21.9	22.2	22.3	22.4	21.1	21.5
21.7	22.1	22.2	22.4	20.8	21.2
21.1	20.8	21.6	21.1	21.0	20.9
22.2	22.3	21.1	23.4	21.9	22.2
22.9	22.9	23.9	22.8	21.8	22.9
22.3	22.3	22.3	22.9	22.2	22.0
22.0	23.0	22.1	22.5	20.5	21.8
21.3	21.5	21.1	22.1	21.1	20.9
22.4	22.1	22.5	22.9	21.7	22.6
20.2	20.9	19.7	20.4	19.0	20.9
22.1	22.5	21.0	22.8	21.6	22.5
22.4	22.9	22.3	23.1	21.5	22.3
21.9	22.3	21.9	21.9	21.5	22.0
21.8	22.2	21.8	22.1	21.1	21.9
22.4	22.1	22.9	23.6	21.6	22.0
22.7	23.1	22.6	23.1	22.2	22.3
22.6	22.6	23.5	23.0	21.3	22.6
21.1	21.3	20.3	21.6	21.2	21.3
21.4	21.6	21.1	21.6	20.9	21.8
21.8	21.8	21.6	22.5	21.4	21.8
21.1	21.1	20.9	21.4	20.4	21.5
21.0	21.0	21.1	21.2	20.6	21.1
22.1	22.1	22.4	23.1	20.9	22.0
22.2	21.9	23.2	23.0	21.7	21.2
22.2	22.4	23.3	22.8	21.6	21.0
21.2	21.5	21.8	21.9	21.1	19.9
22.2	22.3	22.9	22.5	21.8	21.7

UNIFORM TEST IV, 1983

Descriptive and Other Data

Strain	Parentage	Previous Testing	Generation Composited	Descriptive Code	Chlorosis Score Ames	Chlorosis Score Lamberton	Emergence Score Ames	Shattering Score Lubbock	Shattering Score Manhattan
Douglas	Williams x Calland	5	F_5	WTBr SYB1 I	2.2	2.0	5	1.5	1.0
Franklin	L12 x Custer	4	F_3	PGBr DYIb I	2.2	2.6	3	3.5	1.0
Pixie	Williams x Ransom	6	F_5	PTT SYB1 D	1.5	4.2	1	2.5	1.0
Sparks (IV)	Williams x Calland	4	F_6	WTT SYB1 I	1.8	2.8	4	1.7	1.0
Williams 82 (III)	Williams x Kingwa	1	$4BC_6F_3$	WTT SYB1 I	3.0	4.2	2	1.1	1.0
A81-355012	A76-304020 x Land O'Lakes Max	P III B	F_4	PTBr DYB1 I	4.2	4.8	1	3.5	1.0
A81-356022	Century x A76-304020	P III B	F_4	PTBr DYB1 I	4.0	4.0	1	2.3	1.0
HC76-4449	L72U-2567 x Essex	2	F_5	PTT DYB1 D	1.7	2.6	1	1.7	1.0
HC77-2204	Hodgson x V68-1034	1	F_5	PGT SYBf D	2.3	2.4	1	1.5	1.0
HC77-2205	Hodgson x V68-1034	P IV	F_5	PGT SYBf D	2.2	4.0	1	1.5	1.0
HC78-354	L72U-2567 x Essex	P III A	F_5	PGT DYB1 D	1.3	4.0	1	2.0	1.0
HC78-1292	L72U-2567 x Essex	P III A	F_5	PTT IYB1 D	2.2	2.6	1	2.2	1.0
HC78-1318	L72U-2567 x Essex	P III A	F_5	PTT SYB1 D	1.8	3.0	1	2.2	1.0
HC78-1651	L72U-2567 x Essex	P III A	F_5	PTT DYB1 D	1.7	2.0	1	2.2	1.0
HC78-1884	L72U-2567 x Essex	P III A	F_5	PTT SYB1 D	3.5	3.2	1	2.7	1.0
HC78-1931	L72U-2567 x Essex	P III A	F_5	PTT DYB1 D	1.3	2.8	1	2.2	1.0
HC79-1643	L72U-2567 x Ransom	P III A	F_5	PTT SYB1 D	1.7	2.8	1	2.0	1.0
HC79-1644	L72U-2567 x Ransom	P IV	F_5	PTT SYB1 D	1.8	3.6	1	2.0	1.0
L78-8716	L71-3628 x Elf	1	F_4	PTBr DYBr D	2.7	3.0	1	2.5	1.0
LN80-8184	A76-304020 x Century	P IV	F_4	WTBr IYB1 I	2.2	2.8	3	1.1	1.0
LS78W-110	L71L-436 x J74-5	P IV	F_4	PGT DYIb I	3.3	3.2	4	3.5	1.0
Md79-5043	Union x Miles	P IV	F_5	WTT DYB1 I	2.3	3.6	2	2.0	1.0
Md79-5144	L70D6-16 x Miles	P IV	F_5	PGT DYIb I	1.7	2.6	1	1.5	1.0

* Number of years in test or 1982 test

UNIFORM TEST IV, 1983

Disease Data

Strain	Ames Plant n %	Ames Stem n %	Lafayette Stem n %	St. Paul Stem	Ames a Score	Ames a %	Lafayette a %	Queenstown a %	Lafayette a %	Sullivan n %	Germ Lafayette Score	Germ Lafayette %	Hard Seeds Lafayette %	Green Seeds Lafayette %
Douglas	100	43.7	80	70	4	R	5.0	4	20	5	83	0	0	
Franklin	100	54.5	80	75	4	R	1.3	7	19	4	87	3	4	
Pixie	100	96.9	40	95	4	S	0.7	0	8	5	86	1	1	
Sparks (IV)	100	66.3	0	60	3	R	5.7	8	21	4M	76	0	0	
Williams 82 (III)	100	76.7	40	85	3	R	2.3	5	18	4E	93	0	0	
A81-355012	100	30.0	0	30	4	S	3.3	1	12	5	59	34	11	
A81-356022	100	34.6	0	40	4	S	1.7	-	33	5	66	13	27	
HC76-4449	100	100.0	40	70	3	S	0.3	-	8	4	95	12	7	
HC77-2204	100	94.3	60	80	2	R	0.7	-	8	2	87	8	3	
HC77-2205	100	93.9	40	90	3	R	0.7	2	4	2E	85	3	0	
HC78-354	100	98.8	60	70	3	S	1.7	8	14	4E	74	2	0	
HC78-1292	100	100.0	100	80	4	S	0.0	1	17	3E	94	0	0	
HC78-1318	100	100.0	80	80	3	S	0.3	0	15	3E	93	0	0	
HC78-1615	100	97.7	60	75	3	S	1.0	0	12	4E	93	1	0	
HC78-1884	100	94.9	60	70	3	S	0.3	1	9	3E	91	0	3	
HC78-1931	100	90.5	60	95	3	S	0.0	0	10	4E	80	0	0	
HC79-1643	100	86.5	80	70	3	S	0.0	2	11	2M	88	0	0	
HC79-1644	100	100.0	40	55	2	S	1.3	2	17	2M	97	1	7	
L78-8716	100	82.8	40	100	3	S	0.7	2	30	5E	92	1	4	
LN80-8184	100	59.8	40	80	4	H	3.3	4	16	4E	76	15	1	
LS78W-110	100	43.0	100	100	5	S	2.0	6	13	4M	90	0	0	
Md79-5043	100	40.7	80	65	4	S	1.3	3	15	5M	90	0	0	
Md79-5144	100	62.1	-	50	3	S	3.7	8	10	4M	77	0	1	

UNIFORM TEST IV, 1983

Regional Summary

Strain	Yield	Rank	Maturity	Lodging	Plant Height	Seed Quality	Seed Size	Composition	
								Protein	Oil
No. of Tests	16	16	15	16	17	18	17	4	4
	bu/a	No.	Date	Score	In.	Score	g/100	%	%
Douglas	36.1	16	+2.5	1.5	33	2.8	16.3	42.3	21.3
Franklin	31.1	23	-0.3	1.8	38	2.8	13.5	38.9	22.6
Pixie	37.2	9	-0.6	1.3	20	2.1	15.2	41.0	22.5
Sparks (IV)	39.1	3	9-24.9*	2.2	36	2.6	16.0	40.8	22.2
Williams 82 (III)	38.2	5	-2.8	1.6	34	2.1	15.0	40.4	22.6
A81-355012	33.4	21	-5.3	2.0	32	3.5	15.7	42.8	20.8
A81-356022	36.4	13	-4.2	1.7	34	3.1	16.8	41.7	21.1
HC76-4449	36.6	11	+2.5	1.1	23	2.1	14.3	42.9	21.6
HC77-2204	40.4	1	-0.4	1.3	24	2.0	12.7	39.5	22.9
HC77-2205	38.9	4	-5.3	1.3	24	1.9	12.3	39.1	22.6
HC78-354	32.4	22	-0.1	1.1	18	2.8	17.2	42.2	22.8
HC78-1292	36.2	15	-2.3	1.2	20	2.3	14.8	38.0	24.3
HC78-1318	35.2	18	-2.7	1.1	20	2.0	14.7	38.3	24.5
HC78-1651	35.1	19	+1.4	1.2	20	2.2	16.5	42.4	22.0
HC78-1884	36.5	12	-1.3	1.3	23	2.2	14.8	43.5	20.9
HC78-1931	35.5	17	-3.3	1.2	22	2.4	13.8	43.1	21.8
HC79-1643	36.3	14	+0.2	1.3	21	2.3	15.1	39.9	23.3
HC79-1644	37.7	6	+0.7	1.2	20	2.2	15.2	40.0	23.7
L78-8716	37.4	8	-4.1	1.8	26	2.9	16.0	39.0	23.4
LN80-8184	39.4	2	-1.2	1.6	30	3.1	15.2	41.3	21.5
LS78W-110	33.7	20	+2.7	1.9	36	2.7	12.9	39.3	22.7
MD79-5043	37.6	7	0.0	1.7	33	2.1	14.7	42.6	21.4
MD79-5144	36.9	10	+3.3	1.3	34	2.3	15.4	40.2	22.4

*123 Days after planting

UNIFORM TEST IV, 1983

1982-1983, 2-year mean

Strain	Yield	Rank	Maturity	Lodging	Plant Height	Seed Quality	Seed Size	Composition	
								Protein	Oil
No. of Tests	36	36	33	36	37	38	36	9	9
	bu/a	No.	Date	Score	In.	Score	g/100	%	%
Douglas	42.6	3	+5.5	1.6	35	2.7	17.5	41.5	19.8
Franklin	36.7	8	+2.6	2.0	40	2.5	14.5	38.6	20.8
Pixie	41.6	6	+0.8	1.3	21	1.8	16.0	41.1	20.8
Sparks (IV)	44.4	2	9-23.3*	2.1	39	2.4	16.7	39.9	20.-
Williams 82(III)	42.9	4	-1.8	1.6	36	1.9	16.0	40.6	20.8
HC76-4449	41.8	5	+3.3	1.1	23	1.9	15.1	42.8	20.0
HC77-2204	45.5	1	+0.4	1.4	24	1.7	13.2	39.2	20.8
L78-8716	41.6	6	-3.0	1.8	27	2.5	16.6	38.9	21.5

*127 Days after planting

1981-1983, 3-year mean

No. of Tests	52	52	48	52	53	54	52	13	13
Douglas	42.3	2	+5.0	1.6	34	2.7	17.6	41.3	19.8
Franklin	36.5	5	+1.8	2.0	40	2.4	14.4	38.6	20.7
Pixie	41.4	4	-0.1	1.3	21	1.8	16.1	41.5	20.-
Sparks (IV)	44.5	1	9-24.8*	2.2	39	2.3	16.6	39.6	20.3
HC76-4449	41.7	3	+2.6	1.1	23	1.8	15.1	43.4	19.9

*125 Days after planting

The strain HC76-2204 was the highest yielding entry in the 1983 test and also had the highest 2-year mean yield of the entries evaluated. The strain LS78W-110 is resistant to race 3 of the SCN.

UNIFORM TEST IV, 1983

Strain	Mean 16 Tests	Illinois			Indiana			Kansas		Kentucky
		Belle-ville	Carbon-dale	Eldorado	Green-field	Lafayette	Sullivan	Man-hattan	Pow-hattan	Lexington[1]
				YIELD (bu/a)						
Douglas	36.1	22.9	15.0	28.1	44.8	35.0	36.8	48.1	16.6	9.6
Franklin	31.1	23.9	22.0	22.6	41.1	28.7	29.6	34.8	11.5	10.0
Pixie	37.2	20.9	16.0	41.1	46.0	43.4	33.9	41.5	15.0	8.8
Sparks (IV)	39.1	20.2	27.0	29.6	48.5	36.9	40.6	51.5	17.9	9.7
Williams 82 (III)	38.2	24.7	27.0	31.8	51.5	42.1	37.9	53.6	16.6	9.0
A81-355012	33.4	22.4	20.0	17.1	48.5	42.1	25.8	38.9	15.4	8.5
A81-356022	36.4	23.0	23.0	25.0	50.7	38.0	31.4	46.4	17.2	5.7
HC76-4446	36.6	20.2	22.0	38.7	50.1	41.9	43.0	30.0	14.7	9.7
HC77-2204	40.4	24.4	25.0	37.0	50.0	44.4	41.8	48.7	14.3	12.8
HC77-2205	38.9	23.1	25.0	37.1	44.8	36.8	35.1	52.0	15.4	12.7
HC78-354	32.4	13.8	19.0	36.3	45.0	43.4	35.1	31.4	13.1	11.6
HC78-1292	36.2	23.3	24.0	42.1	54.2	49.3	19.8	43.9	15.8	11.5
HC78-1318	35.2	16.5	25.0	41.4	42.9	43.9	26.5	43.5	14.9	11.6
HC78-1651	35.1	25.6	20.0	41.9	41.4	46.8	31.5	38.0	14.1	8.7
HC78-1884	36.5	16.4	22.0	41.4	45.9	41.0	35.3	46.6	17.3	9.6
HC78-1931	35.5	18.9	21.0	32.5	42.0	40.0	29.0	45.8	15.6	10.1
HC79-1643	36.3	14.6	26.0	42.4	48.0	41.9	35.9	46.4	14.8	9.6
HC79-1644	37.7	21.5	32.0	43.9	44.4	47.5	34.7	53.8	17.9	12.9
L78-8716	37.4	22.0	27.0	36.2	40.7	43.7	37.5	50.0	17.5	8.8
LN80-8184	39.4	27.8	24.0	25.1	45.2	39.1	31.1	49.7	17.2	8.4
LS78W-110	33.7	28.7	20.0	32.1	30.6	38.8	27.4	41.0	13.6	11.6
MD79-5043	37.6	29.0	27.0	33.0	46.4	37.5	32.4	42.2	15.6	12.0
MD79-5144	36.9	25.5	17.0	31.8	40.7	39.7	34.1	48.7	12.5	9.9
C.V. (%)		21.1	22	7.5	14.7	11.0	21.3	15.4	11.4	22.1
L.S.D. (5%)		7.7	8.4	4.2	11.0	7.3	11.8	11.3	2.9	3.7
Row sp. (in.)		30	30	30	30	24	28	30	30	30
Rows/plot		4	4	4	3	4	3	4	4	4
Reps		3	3	3	3	3	3	3	3	3

[1] Data not included in the mean

UNIFORM TEST IV, 1983

Strain	MD	Missouri		Neb.	N.J.	Ohio		Penn.	TX
	Queens-town	Loam Portageville	Clay[1] Portageville	Lin-coln	Adel-phia	Ripley	S. Charleston	Landis-ville	Lub-bock
				YIELD (bu/a)					
Douglas	30.9	18.8	10.4	28.5	57.6	38.3	63.8	47.3	44.6
Franklin	26.8	21.6	6.8	26.8	48.6	34.2	55.6	37.5	32.3
Pixie	26.0	23.5	3.9	38.6	53.5	35.0	65.4	37.2	28.0
Sparks (IV)	38.3	26.2	9.8	35.4	60.5	43.0	64.5	44.3	41.8
Williams 82 (III)	32.7	26.3	9.7	34.2	55.6	36.3	65.7	38.9	36.3
A81-355012	33.2	22.1	6.0	32.4	59.0	35.5	57.3	42.2	21.9
A81-356022	37.0	26.8	5.6	31.4	56.9	38.0	65.4	41.1	31.7
HC76-4449	35.1	24.5	5.0	27.7	58.4	37.9	65.6	42.3	32.7
HC77-2204	39.3	23.7	4.6	34.6	61.4	43.3	67.0	44.8	47.0
HC77-2205	33.5	23.9	6.9	36.8	64.1	41.7	65.7	41.8	45.5
HC78-354	21.7	19.6	4.0	23.1	61.0	37.7	62.7	33.8	21.4
HC78-1292	27.0	18.3	2.6	36.5	61.1	42.1	60.6	39.3	21.6
HC78-1318	24.4	21.7	1.6	33.2	64.4	39.7	68.7	33.5	23.6
HC78-1651	30.3	22.7	5.9	25.0	57.9	43.0	68.1	30.9	25.0
HC78-1884	30.1	21.9	4.1	35.2	63.5	38.1	68.0	38.8	22.4
HC78-1931	31.3	22.0	4.9	38.0	54.0	40.0	70.8	33.7	32.9
HC79-1643	25.5	24.3	2.6	27.4	62.8	41.6	64.9	37.0	26.5
HC79-1644	25.3	24.3	4.2	31.1	62.5	38.8	64.9	34.7	26.3
L78-8716	32.5	22.8	4.9	39.7	58.2	39.9	64.1	34.6	32.6
LN80-8184	39.2	23.3	7.4	45.3	60.7	41.3	69.4	44.2	47.0
LS78W-110	29.5	29.0	10.6	24.7	54.9	34.6	59.8	38.1	36.0
MD79-5043	31.9	27.9	10.5	34.5	60.8	38.5	62.6	40.1	42.1
MD79-5144	30.0	26.5	10.4	28.7	68.8	38.6	63.0	40.6	44.8
C.V. (%)	15.1	15.0	25.0	11.4	8.25	7.8	7.2	9.7	12.3
L.S.D. (5%)	7.7	5.7	2.5	6.1	9.68	5.0	7.5	6.1	6.7
Row sp. (in.)	30	30	30	30	30	30	30	24	40
Rows/plot	4	4	4	4	8	4	4	4	4
Reps	3	3	3	3	3	3	3	3	3

[1] Data not included in the mean

Strain	Mean 16 Tests	Illinois			Indiana			Kansas		Kentucky
		Belle-ville	Carbon-dale	Eldorado	Green-field	Lafayette	Sullivan	Man-hattan	Pow-hattan	Lexington
		YIELD RANK								
Douglas	16	12	23	19	14	22	6	9	7	14
Franklin	23	8	13	22	20	23	18	21	23	10
Pixie	9	16	22	7	10	7	13	17	14	18
Sparks (IV)	3	17	2	18	6	20	3	4	1	12
Williams 82 (III)	5	6	2	16	2	9	4	2	7	17
A81-355012	21	13	17	23	6	9	22	19	12	21
A81-356022	13	11	12	21	3	18	16	11	5	23
HC76-4449	11	17	13	8	4	11	1	23	17	12
HC77-2204	1	7	7	10	5	4	2	7	18	2
HC77-2205	4	10	7	9	14	21	9	3	12	3
HC78-354	22	23	20	11	13	7	9	22	21	5
HC78-1292	15	9	10	3	1	1	23	14	9	8
HC78-1318	18	20	7	5	17	5	21	15	15	5
HC78-1651	19	4	17	4	19	3	15	20	19	20
HC78-1884	12	21	13	5	11	13	8	10	4	14
HC78-1931	17	19	16	14	18	14	19	13	10	9
HC79-1643	14	22	6	2	8	11	7	11	16	14
HC79-1644	6	15	1	1	16	2	11	1	1	1
L78-8716	8	14	2	12	21	6	5	5	3	18
LN80-8184	2	3	10	20	12	16	17	6	5	22
LS78W-110	20	2	20	15	23	17	20	18	20	5
MD79-5043	7	1	27	13	9	19	14	16	10	4
MD79-5144	10	5	17	16	21	15	12	7	22	11

UNIFORM TEST IV, 1983

Strain	MD	Missouri		Neb.	N.J.	Ohio		Penn-	TX
	Queens-town	Loam Portageville	Clay Portageville	Lin-coln	Adel-phia	Ripley	S. Charleston	Landis-ville	Lub-bock
				YIELD RANK					
Douglas	12	22	3	17	17	14	15	1	5
Franklin	18	20	9	20	23	23	23	15	13
Pixie	19	12	20	3	22	21	10	16	15
Sparks (IV)	3	6	5	7	12	2	14	3	7
Williams 82 (III)	8	5	6	11	19	19	7	12	8
A81-355012	7	16	10	13	13	20	22	6	21
A81-356022	4	3	12	14	18	16	10	8	14
HC76-4449	5	7	13	18	14	17	9	5	11
HC77-2204	1	11	16	9	6	1	6	2	1
HC77-2205	6	10	8	5	2	5	7	7	3
HC78-354	23	21	19	23	8	18	17	20	23
HC78-1292	17	23	21	6	7	4	20	11	22
HC78-1318	22	19	23	12	1	10	3	22	19
HC78-1651	13	15	11	21	16	2	4	23	18
HC78-1884	14	18	18	8	3	15	5	13	20
HC78-1931	11	17	14	4	21	8	1	21	10
HC79-1643	20	9	21	19	4	6	12	17	16
HC79-1644	21	8	17	15	5	11	12	18	17
L78-8716	9	14	14	2	15	9	19	19	12
LN80-8184	2	13	7	1	11	7	2	4	1
LS78W-110	16	1	1	22	20	22	21	14	9
MD79-5043	10	2	2	10	9	13	18	10	6
MD79-5144	15	4	3	16	9	12	16	9	4

Strain	Mean 15 Test	Illinois			Indiana			Kansas		Kentucky
		Belle-ville	Carbon-dale	Eldorado	Green-field	Lafayette	Sullivan	Man-hattan	Pow-hattan	Lexington[1]
					MATURITY (date)					
Douglas	+2.5	+2	+1	+1	+3	+7	-1	+9		F
Franklin	-0.3	+1	+1	+1	0	0	+2	+3		F
Pixie	-0.6	-1	-2	+1	+2	+3	-8	-1		F
Sparks (IV)	9-24.9	9-16	9-19	9-13	9-27	9-20	10-4	9-29		F
Williams 82 (III)	-2.8	-3	-1	-2	-1	-1	-2	-1		F
A81-355012	-5.3	-5	-2	-7	-3	-3	-11	-4		F
A81-356022	-4.2	-3	-2	-5	-3	-3	-6	-2		F
HC76-4449	+2.5	+4	+1	+8	+4	+9	+1	0		F
HC77-2204	-0.4	+3	-2	+6	-1	+5	-3	-3		F
HC77-2205	-5.3	+2	-2	+5	-1	+2	-2	-2		F
HC78-354	-0.1	+1	+1	+3	+1	+5	-5	-1		F
HC78-1292	-2.3	-4	-2	-1	-2	+5	-8	0		F
HC78-1318	-2.7	-4	-2	-1	0	+2	-6	-3		F
HC78-1651	+1.4	+3	0	+6	+3	+7	-3	+1		F
HC78-1884	-1.3	-2	-1	+4	+1	+4	-6	-2		F
HC78-1931	-3.3	-6	-1	-1	0	+2	-10	-3		F
HC79-1643	+0.2	+2	0	+8	-1	+5	-6	+1		F
HC79-1644	+0.7	+1	0	+6	+1	+5	-2	+1		F
L78-8716	-4.1	-4	-1	-1	-1	-2	-12	-5		F
LN80-8184	-1.2	0	+1	-1	-1	-1	-7	+2		F
LS78W-110	+2.7	+12	+4	+7	+1	+8	-4	+4		F
MD79-5043	0.0	+1	+3	+3	+2	+2	-3	-1		F
MD79-5144	+3.3	+3	+3	+6	+4	+8	-2	+9		F
Date Planted	5-25.4	5-28	5-31	6-1	5-30	5-11	6-14	5-25	5-28	5-28
Days to Mature	123	111	111	104	120	132	112	127	--	--

[1] Data not included in the mean

UNIFORM TEST IV, 1983

Strain	MD	Missouri		Neb.	N.J.	Ohio		Penn.	TX
	Queens-town	Loam Portageville	Clay[1] Portageville	Lin-coln	Adel-phia	Ripley	S. Charleston	Landis-ville	Lub-bock
			MATURITY (date)						
Douglas	+3	+1	+8	+3	+5	+2	+6	-2	-3
Franklin	-8	+1	+7	+1	-4	-3	+4	-2	-4
Pixie	-8	-6	-3	+1	-2	-3	+4	-2	-3
Sparks (IV)	10-6	9-13	9-17	9-24	10-10	9-20	9-26	10-4	9-23
Williams 82 (III)	-8	-5	+5	+1	-8	-3	-2	-2	-4
A81-355012	-13	-6	-2	-3	-9	-4	-5	-2	-3
A81-356022	-11	-5	+5	-2	-8	-3	-5	0	-5
HC76-4449	-1	+1	+4	+3	0	+1	+7	-2	+1
HC77-2204	-4	-5	-2	-1	0	-1	+4	-2	+4
HC77-2205	-8	-5	-3	-1	-3	0	+2	0	+2
HC78-354	-3	+1	+10	+2	-5	-2	+1	-2	+1
HC78-1292	-9	-6	-5	-3	-4	-1	+1	-2	+3
HC78-1318	-8	-5	-3	-3	-3	-5	0	-2	0
HC78-1651	-2	+2	+6	+2	-2	-1	+3	-2	+1
HC78-1884	-7	-5	-1	+2	-3	-3	+2	-2	-1
HC78-1931	-8	-5	-3	-2	-5	-3	+1	-2	-2
HC79-1643	-4	+1	-1	0	-2	-1	+2	-2	0
HC79-1644	-6	+1	+9	+2	-1	-1	+4	-2	+1
L78-8716	-10	-7	-2	-2	-6	-5	-2	-2	-1
LN80-8184	-4	-4	+7	+1	-6	+1	+1	0	0
LS78W-110	-5	+2	+9	+2	+6	0	+6	-2	-1
MD79-5043	-8	0	0	+4	-3	0	+5	-2	-3
MD79-5144	+6	-3	+9	+2	+2	+2	+7	+2	+1
Date Planted	6-8	5-24	5-31	5-12	6-3	5-14	5-13	5-26	5-17
Days to Mature	120	112	109	135	129	129	136	131	129

Strain	Mean 16 Tests	Illinois			Indiana			Kansas		Kentucky
		Belle-ville	Carbon-dale	Eldorado	Green-field	Lafayette	Sullivan	Man-hattan	Pow-hattan	Lexington[1]
				LODGING (score)						
Douglas	1.5	1.1	1.0	1.5	1.7	1.3	1.7	1.8	1.0	1.0
Franklin	1.8	1.2	1.0	1.8	1.5	1.5	2.3	2.5	1.0	1.0
Pixie	1.3	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Sparks (IV)	2.2	1.2	1.0	4.0	3.0	1.5	3.5	1.8	1.0	1.0
Williams 82 (III)	1.6	1.2	1.0	2.7	1.5	1.0	2.2	2.3	1.0	1.0
A81-355012	2.0	1.3	1.0	3.9	2.3	1.5	2.2	1.7	1.0	1.0
A81-356022	1.7	1.1	1.0	2.1	1.7	1.2	2.8	2.3	1.0	1.0
HC76-4449	1.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
HC77-2204	1.3	1.0	1.0	1.4	1.3	1.2	1.0	1.0	1.0	1.0
HC77-2205	1.3	1.0	1.0	1.2	1.3	1.2	1.0	1.0	1.0	1.0
HC78-354	1.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
HC78-1292	1.2	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
HC78-1318	1.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
HC78-1651	1.2	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
HC78-1884	1.3	1.0	1.0	1.1	1.0	1.0	1.0	1.0	1.0	1.0
HC78-1931	1.2	1.0	1.0	1.1	1.0	1.0	1.0	1.0	1.0	1.0
HC79-1643	1.3	1.0	1.0	1.0	1.2	1.0	1.0	1.3	1.0	1.0
HC79-1644	1.2	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
L78-8716	1.8	1.1	1.0	2.9	2.5	2.0	1.0	1.0	1.0	1.0
LN80-8184	1.6	1.1	1.0	1.0	2.3	1.0	1.0	2.2	1.0	1.0
LS78W-110	1.9	1.2	1.0	1.8	1.8	1.7	2.3	2.5	1.0	1.0
MD79-5043	1.7	1.2	1.0	2.8	2.3	1.2	2.3	2.0	1.0	1.0
MD79-5144	1.3	1.1	1.0	1.1	1.3	1.0	1.3	2.2	1.0	1.0

[1] Data not included in the mean

UNIFORM TEST IV, 1983

Strain	MD	Missouri		Neb.	N.J.	Ohio		Penn.	TX
	Queens-town	Loam Portageville	Clay[1] Portageville	Lin-coln	Adel-phia	Ripley	S. Charleston	Landis-ville	Lub-bock
				LODGING (score)					
Douglas	2.2	1.5	1.0	1.3	1.3	1.0	3.2	1.0	1.5
Franklin	2.2	1.5	1.0	1.7	2.3	1.8	3.2	2.0	2.0
Pixie	1.7	1.0	1.0	1.0	1.3	1.0	3.3	2.0	1.0
Sparks (IV)	2.7	2.0	1.0	1.0	3.0	1.0	3.2	2.0	2.7
Williams 82 (III)	2.0	1.5	1.0	1.2	1.3	1.0	2.3	1.0	2.5
A81-355012	2.3	1.5	1.5	1.5	2.3	1.5	3.8	2.0	2.3
A81-356022	2.5	1.5	1.0	1.0	2.0	1.0	2.8	1.0	1.8
HC76-4449	1.8	1.0	1.0	1.0	1.0	1.0	1.7	1.0	1.0
HC77-2204	2.3	1.0	1.0	1.0	1.0	1.0	2.5	2.0	1.1
HC77-2205	2.2	1.0	1.0	1.0	1.3	1.0	2.3	2.0	1.1
HC78-354	1.7	1.0	1.0	1.0	1.0	1.0	1.7	1.0	1.0
HC78-1292	1.7	1.0	1.0	1.0	1.3	1.0	2.7	1.0	1.0
HC78-1318	2.0	1.0	1.0	1.0	1.0	1.0	1.8	1.0	1.0
HC78-1651	1.7	1.0	1.0	1.0	1.3	1.0	2.7	2.0	1.0
HC78-1884	2.2	1.0	1.0	1.0	1.3	1.0	2.8	2.0	1.0
HC78-1931	1.8	1.0	1.0	1.0	1.3	1.0	2.5	2.0	1.0
HC79-1643	2.0	1.0	1.0	1.0	1.7	1.0	3.2	1.0	1.0
HC79-1644	1.7	1.0	1.0	1.0	1.7	1.0	2.8	1.0	1.0
L78-8716	2.5	1.0	1.0	1.2	2.7	1.7	3.8	2.0	1.2
LN80-8184	2.2	1.5	1.0	1.0	2.0	1.3	3.2	1.0	2.0
LS78W-110	2.5	2.0	1.0	1.8	2.7	1.0	2.8	2.0	1.7
MD79-5043	2.3	1.5	1.0	1.5	1.0	1.0	3.2	1.0	2.5
MD79-5144	2.2	1.5	1.0	1.0	1.3	1.0	1.8	1.0	1.5

[1] Data not included in the mean

Strain	Mean 17 Tests	Illinois			Indiana			Kansas		Kentucky
		Belle-ville	Carbon-dale	Eldorado	Green-field	Lafayette	Sullivan	Man-hattan	Pow-hattan	Lexington
				PLANT HEIGHT (inches)						
Douglas	33	24	27	36	40	39	39	42	29	23
Franklin	38	31	34	45	44	43	41	48	30	25
Pixie	20	14	16	22	21	26	17	18	22	22
Sparks (IV)	36	25	33	43	46	45	44	41	28	24
Williams 82 (III)	34	26	29	40	40	37	36	46	26	22
A81-355012	32	25	26	36	39	38	37	39	24	22
A81-356022	34	26	29	38	41	40	39	40	29	22
HC76-4449	23	14	18	25	27	29	19	22	20	24
HC77-2204	24	15	19	25	29	30	21	24	20	20
HC77-2205	24	15	20	25	27	30	22	25	19	21
HC78-354	18	12	14	21	21	22	13	17	18	21
HC78-1292	20	15	20	23	25	26	11	20	17	20
HC78-1318	20	13	19	23	21	24	16	20	18	18
HC78-1651	20	15	18	22	22	23	18	20	19	22
HC78-1884	23	14	20	24	25	28	17	21	19	23
HC78-1931	22	16	18	24	25	28	17	23	21	23
HC79-1643	21	14	21	21	26	26	17	20	19	19
HC79-1644	20	14	18	21	23	25	16	20	18	21
L78-8716	26	18	22	31	31	34	25	26	23	25
LN80-8184	30	25	23	30	39	33	27	42	21	20
LS78W-110	36	34	34	42	44	45	37	36	20	25
MD79-5043	33	26	33	37	42	38	36	44	10	21
MD79-5144	34	27	27	36	43	41	37	45	22	23

[1] Data not included in the mean

UNIFORM TEST IV, 1983

Strain	MD	Missouri		Neb.	N.J.	Ohio		Penn.	TX
	Queens-town	Loam Portageville	Clay[1] Portageville	Lin-coln	Adel-phia	Ripley	S. Charleston	Landis-ville	Lub-bock
			PLANT HEIGHT (inches)						
Douglas	25	28	26	35	49	28	41	28	25
Franklin	31	38	27	42	54	36	45	32	28
Pixie	17	20	14	20	28	23	27	22	12
Sparks (IV)	33	32	24	38	55	32	43	30	23
Williams 82 (III)	29	34	29	37	50	27	43	27	24
A81-355012	28	30	24	37	47	29	40	27	23
A81-356022	30	36	24	37	49	30	41	29	22
HC76-4449	22	22	12	23	32	26	32	25	14
HC77-2204	25	18	15	24	30	26	33	26	15
HC77-2205	24	20	12	23	32	25	33	25	15
HC78-354	15	16	9	17	25	20	26	21	11
HC78-1292	15	14	7	20	31	25	28	22	12
HC78-1318	17	15	10	20	29	23	30	20	12
HC78-1651	17	16	15	18	28	22	26	20	13
HC78-1884	23	19	14	23	34	27	32	25	13
HC78-1931	22	18	13	24	31	24	30	24	14
HC79-1643	19	16	13	23	31	25	29	23	14
HC79-1644	16	15	11	21	30	23	27	22	13
L78-8716	25	24	15	29	33	26	37	24	16
LN80-8184	27	31	22	30	46	28	42	24	23
LS78W-110	32	37	26	40	54	32	43	30	28
MD79-5043	30	38	26	38	47	31	43	26	24
MD79-5144	29	35	23	36	50	33	44	29	24

[1] Data not included in the mean

Strain	Mean 18 Tests	Illinois			Indiana			Kansas		Kentucky
		Belle-ville	Carbon-dale	Eldorado	Green-field	Lafayette	Sullivan	Man-hattan	Pow-hattan	Lexington
				SEED QUALITY (score)						
Douglas	2.8	2.7	2.0	3.0	4.0	2.0	1.5	2.5	4.0	4.0
Franklin	2.8	4.2	2.0	4.5	2.5	1.5	2.0	2.5	4.0	2.0
Pixie	2.1	2.2	2.0	2.8	2.0	1.0	4.0	1.0	1.5	3.0
Sparks (IV)	2.6	4.7	2.0	3.5	2.0	1.5	2.5	1.5	2.5	4.0
Williams 82 (III)	2.1	2.5	2.0	3.2	3.0	1.0	2.0	1.0	1.5	3.0
A81-356012	3.5	4.8	2.0	4.5	3.5	1.5	4.5	3.5	5.0	5.0
A81-356022	3.1	4.8	2.0	4.2	3.5	1.5	4.5	3.0	4.0	5.0
HC76-2449	2.1	2.2	2.0	2.2	2.5	1.0	1.5	1.5	2.5	2.0
HC77-2204	2.0	2.7	2.0	2.5	3.5	1.0	2.0	1.0	2.0	2.0
HC77-2205	1.9	3.0	1.0	2.8	2.0	1.0	1.5	1.5	1.5	3.0
HC78-354	2.8	2.7	2.0	3.2	3.5	1.5	5.0	3.0	1.5	4.0
HC78-1292	2.3	2.5	1.0	2.8	3.0	1.0	4.5	3.0	1.5	3.0
HC78-1318	2.0	2.7	2.0	2.7	2.0	1.0	1.5	1.5	2.0	3.0
HC78-1651	2.2	2.7	2.0	2.3	2.0	1.5	4.0	2.5	1.5	2.0
HC78-1884	2.2	2.5	2.0	2.8	1.5	1.0	3.5	3.0	1.0	3.0
HC78-1931	2.4	2.5	2.0	3.2	2.5	1.0	4.5	2.0	1.5	3.0
HC79-1643	2.3	2.7	2.0	3.0	4.0	1.0	4.0	2.0	1.0	3.0
HC79-1644	2.2	2.5	2.0	2.3	2.5	1.0	2.5	2.0	3.0	3.0
L78-8716	2.9	3.5	2.0	2.8	2.5	1.5	5.0	2.0	3.5	4.0
LN80-8184	3.1	4.7	4.0	4.2	2.0	2.0	2.5	1.5	5.0	4.0
LS78W-110	2.7	4.5	2.0	4.0	3.5	1.5	3.5	2.0	2.0	4.0
MD79-5043	2.1	2.3	2.0	3.2	2.0	1.0	2.0	2.0	2.5	3.0
MD79-5144	2.3	2.7	3.0	2.5	2.5	1.0	2.5	2.0	3.5	3.0

UNIFORM TEST IV, 1983

Strain	MD	Missouri		Neb.	N.J.	Ohio		Penn.	TX
	Queens-town	Loam Portageville	Clay Portageville	Lin-coln	Adel-phia	Ripley	S. Charleston	Landis-ville	Lub-bock
				SEED QUALITY (score)					
Douglas	4.5	2.0	3.0	2.5	2.7	2.0	2.0	3.0	3.5
Franklin	3.5	3.0	4.0	3.0	1.0	3.0	1.5	2.5	3.0
Pixie	3.1	2.0	3.0	1.3	1.3	1.0	1.5	2.0	2.5
Sparks (IV)	3.7	2.0	3.0	1.7	2.0	2.5	1.5	2.0	4.0
Williams 82 (III)	2.5	2.0	3.0	1.5	1.7	1.5	1.5	2.0	2.5
A81-355012	4.5	4.0	4.0	3.2	1.3	3.5	1.5	3.0	3.5
A81-356022	4.8	3.0	4.0	3.0	2.0	2.0	1.5	2.5	3.0
HC76-4449	3.2	3.0	3.0	1.2	1.3	1.5	1.5	2.5	2.5
HC77-2204	2.5	2.0	3.0	1.8	1.3	1.0	1.0	2.0	2.7
HC77-2205	2.2	3.0	4.0	1.7	1.7	1.0	1.0	2.0	2.7
HC78-354	4.7	3.0	3.0	1.8	2.0	2.5	1.5	2.0	4.0
HC78-1292	4.2	2.0	3.0	1.0	1.0	1.0	1.5	2.0	3.2
HC78-1318	4.2	2.0	2.0	1.0	1.0	1.5	1.5	2.0	2.7
HC78-1651	3.5	2.0	2.0	1.5	1.7	1.0	1.5	2.5	2.7
HC78-1884	3.3	2.0	3.0	1.2	1.3	1.0	1.5	2.5	3.5
HC78-1931	4.3	3.0	3.0	1.0	3.0	1.0	1.5	2.0	3.0
HC79-1643	4.5	2.0	3.0	1.7	1.0	1.0	1.0	2.0	2.7
HC79-1644	3.7	2.0	3.0	1.2	1.0	1.5	1.0	2.0	3.0
L78-8716	4.7	4.0	3.0	2.0	1.3	2.5	1.5	2.5	3.0
LN80-8184	4.2	3.0	4.0	2.5	1.3	3.0	1.5	3.0	2.5
LS78W-110	3.8	3.0	3.0	3.2	1.3	2.0	1.5	2.0	2.5
MD79-5043	2.3	2.0	3.0	1.5	1.7	1.0	1.5	2.0	2.7
MD79-5144	3.3	2.0	3.0	2.0	1.3	1.5	1.5	2.0	2.5

Strain	Mean 17 Tests	Illinois			Indiana			Kansas		Kentucky
		Belle-ville	Carbon-dale	Eldorado	Green-field	Lafayette	Sullivan	Man-hattan	Pow-hattan	Lexington
				SEED SIZE (g/100)						
Douglas	16.3	11.7	13.2	11.4	17.9	16.1	17.3	18.5	14.2	12.5
Franklin	13.5	10.2	13.5	10.0	14.2	12.2	16.2	13.7	11.0	10.8
Pixie	15.2	11.5	12.1	12.6	16.8	15.7	14.6	19.6	12.5	10.4
Sparks (IV)	16.0	9.7	14.1	11.3	18.6	16.8	16.9	17.2	13.8	9.3
Williams 82 (III)	15.0	11.0	13.0	11.5	17.6	15.9	14.2	15.8	12.9	9.7
A81-355012	15.7	12.5	13.3	10.2	17.4	17.1	14.3	18.9	12.6	10.7
A81-356022	16.8	11.8	15.9	11.2	19.0	16.7	19.0	17.4	14.2	8.0
HC76-4449	14.3	9.9	12.3	12.0	15.0	14.5	16.4	18.5	13.6	7.1
HC77-2204	12.7	9.2	11.7	10.2	13.1	13.9	12.6	13.0	10.8	8.8
HC77-2205	12.3	9.1	11.1	9.7	12.1	13.0	14.0	14.0	10.5	8.9
HC78-354	17.2	12.4	16.3	14.7	15.7	17.5	20.3	20.2	13.4	12.5
HC78-1292	14.8	10.5	13.2	11.7	14.5	14.6	17.0	17.0	11.4	10.4
HC78-1318	14.7	9.9	12.9	11.8	14.7	15.0	17.9	17.0	11.2	7.9
HC78-1651	16.5	12.8	15.0	14.2	16.4	16.8	16.6	18.5	13.0	11.7
HC78-1884	14.8	10.1	14.1	13.0	15.3	15.4	15.6	17.6	11.7	8.8
HC78-1931	13.8	9.7	14.4	10.8	13.7	14.1	14.8	16.8	12.0	8.6
HC79-1643	15.1	11.6	14.7	14.8	14.0	16.3	15.4	18.6	12.4	10.5
HC79-1644	15.2	11.2	14.4	12.5	16.1	15.3	16.5	19.3	12.5	8.8
L78-8716	16.0	11.2	15.1	12.0	17.4	17.5	17.1	18.5	13.3	8.6
LN80-8184	15.2	10.5	13.9	10.2	16.4	14.4	17.4	15.5	12.9	10.4
LS78W-110	12.9	10.7	11.3	10.7	13.2	13.7	12.0	13.9	10.4	11.8
MD79-5043	14.7	10.2	14.0	12.4	15.6	16.0	13.8	16.6	13.7	10.2
MD79-5144	15.4	11.4	11.3	12.2	15.1	16.3	15.1	16.8	14.6	11.7

UNIFORM TEST IV, 1983

Strain	MD	Missouri		Neb.	N.J.	Ohio		Penn.	TX
	Queens-town	Loam Portageville	Clay Portageville	Lin-coln	Adel-phia	Ripley	S. Charleston	Landis-ville	Lub-bock
				SEED SIZE (g/100)					
Douglas	22.0	12.1		14.7	20.0	17.1	17.6	19.9	20.2
Franklin	16.5	9.9		12.1	18.0	13.8	14.1	16.9	17.1
Pixie	18.8	12.1		16.0	20.0	14.1	16.2	16.2	19.5
Sparks (IV)	21.3	12.1		16.0	21.0	17.3	16.8	20.9	19.7
Williams 82 (III)	19.5	11.3		13.9	19.0	15.5	16.7	19.1	18.0
A81-355012	20.2	11.4		14.3	19.0	16.3	16.4	22.8	20.1
A81-356022	25.1	12.5		14.5	21.0	16.6	17.8	23.2	21.3
HC76-4449	17.0	11.9		14.3	17.0	13.0	15.2	15.6	19.4
HC77-2204	16.2	10.1		11.5	16.0	12.6	12.4	16.0	17.2
HC77-2205	15.0	9.3		11.1	16.0	12.3	12.3	13.1	16.8
HC78-354	19.4	14.6		17.7	22.0	16.1	18.0	19.3	22.1
HC78-1292	17.2	13.0		15.3	18.0	14.3	16.3	16.7	20.2
HC78-1318	18.1	15.4		15.6	18.0	13.7	15.0	15.1	19.9
HC78-1651	19.3	15.9		16.0	21.0	15.6	17.3	19.7	21.4
HC78-1884	17.9	11.9		15.5	18.0	14.0	16.3	16.8	20.1
HC78-1931	17.4	11.7		14.0	18.0	11.9	13.8	15.4	17.9
HC79-1643	19.3	14.3		17.5	19.0	13.8	16.5	17.6	21.2
HC79-1644	17.1	13.7		16.1	19.0	13.7	15.6	16.0	19.8
L78-8716	19.5	12.6		15.7	21.0	17.3	17.1	17.8	20.9
LN80-8184	20.4	11.4		14.8	20.0	14.6	15.7	19.3	20.5
LS78W-110	15.2	10.3		9.8	17.0	13.0	13.5	16.7	16.3
MD79-5043	17.8	11.3		12.5	19.0	14.5	16.5	16.9	18.4
MD79-5144	19.7	11.5		14.0	20.0	15.5	15.9	20.0	20.5

UNIFORM TEST IV, 1983

Strain	Mean 4 Tests	Illinois Eldorado	Indiana Lafayette	Kansas Manhattan	Missouri Loam Portageville
			PROTEIN (%)		
Douglas	42.3	43.8	42.5	41.7	41.0
Franklin	38.9	41.5	39.0	35.4	39.6
Pixie	41.0	40.7	40.5	39.6	43.2
Sparks (IV)	40.8	42.4	40.7	39.8	40.1
Williams 82 (III)	40.4	42.1	39.1	39.3	41.2
A81-355012	42.8	43.2	41.4	42.3	44.2
A81-356022	41.7	43.6	41.2	40.6	41.4
HC76-4449	42.9	42.9	42.9	42.5	43.4
HC77-2204	39.5	40.8	39.8	36.6	40.7
HC77-2205	39.1	39.5	39.6	35.9	41.3
HC78-354	42.2	42.7	40.7	41.7	43.8
HC78-1292	38.0	38.9	38.0	35.7	39.4
HC78-1318	38.3	39.1	38.0	36.3	39.9
HC78-1651	42.4	41.5	42.0	42.2	43.7
HC78-1884	43.5	43.1	43.7	41.5	45.8
HC78-1931	43.1	43.0	43.2	41.7	44.4
HC79-1643	39.9	41.1	39.3	38.1	40.9
HC79-1644	40.0	40.1	40.3	38.8	40.7
L78-8716	39.0	39.6	38.3	38.0	40.2
LN80-8184	41.3	43.1	42.2	38.6	41.2
LS78W-110	39.3	39.9	40.1	38.1	39.0
MD79-5043	42.6	44.1	42.9	41.4	42.1
MD79-5144	40.2	40.8	40.5	39.9	39.5

UNIFORM TEST IV, 1983

Strain	Mean 4 Tests	Illinois Eldorado	Indiana Lafayette	Kansas Manhattan	Missouri Loam Portageville
			OIL (%)		
Douglas	21.3	20.6	21.1	21.8	21.8
Franklin	22.6	22.1	22.5	23.8	22.0
Pixie	22.5	22.5	22.4	23.3	21.9
Sparks (IV)	22.2	21.2	22.6	22.9	22.1
Williams 82 (III)	22.6	21.9	22.9	23.1	22.6
A81-355012	20.8	20.2	22.1	21.4	19.6
A81-356022	21.1	19.9	21.5	21.6	21.4
HC76-4449	21.6	21.8	21.5	22.1	21.1
HC77-2204	22.9	23.0	22.3	23.9	22.3
HC77-2205	22.6	23.1	21.9	24.4	21.0
HC78-354	22.8	22.8	22.5	23.6	22.2
HC78-1292	24.3	24.0	24.4	24.8	23.9
HC78-1318	24.5	24.1	24.2	25.0	24.5
HC78-1651	22.0	22.5	22.1	22.2	21.3
HC78-1884	20.9	21.8	21.1	21.9	18.9
HC78-1931	21.8	21.2	21.7	23.1	21.2
HC79-1643	23.3	23.1	22.9	23.6	23.6
HC79-1644	23.7	23.4	23.8	24.2	23.4
L78-8716	23.4	22.9	23.8	24.2	22.8
LN80-8184	21.5	19.9	21.7	22.9	21.6
LS78W-110	22.7	22.8	21.8	23.1	23.0
MD79-5043	21.4	20.2	21.8	22.1	21.3
MD79-5144	22.4	22.2	21.2	23.3	22.8

PRELIMINARY TEST IV, 1983

Strain		Parentage	Generation Composited
1.	Franklin	L12 x Custer	F_3
2.	Sparks (IV)	Williams x Calland	F_6
3.	Williams 82 (III)	Williams^7 x Kingwa	$4BC_6$ F_3
4.	C1621	Harcor x Cumberland	F_5
5.	C1624	Union x Harcor	F_5
6.	C1635	Union x Century	F_5
7.	C1637	Union x Century	F_5
8.	HW8241	Century x (Tracy x Williams)	F_5
9.	K1095	K1034 x Essex	F_5
10.	K1096	K1034 x Columbus	F_5
11.	Ky80-1027	Williams x Essex	F_5
12.	Ky80-1030	Williams x Essex	F_5
13.	Ly80-1154	Williams x Essex	F_5
14.	L80L-567	Williams x Pomona	F_7
15.	L80L-643	Williams x Ponoma	F_7
16.	LG80-754	Williams x Essex	F_4
17.	LN80-7787	Century x A76-304020	F_4
18.	LN80-8357	A76-304020 x Land O'Lakes Max	F_4
19.	LN80-8478	A76-304020 x Land O'Lakes Max	F_4
20.	LN80-8659	Schechenger S48 x A76-304020	F_4

21.	LN80-9604	A76-304020 x A75-103019	F_4
22.	LS79-E815	L73-6356 x Mitchell	F_5
23.	LS79-W1308	L71L-436 x J74-5	F_5
24.	LS79-W2034	L71L-436 x J74-5	F_5
25.	Md80-1L2I	Forrest x (Bonus x Cutler)	F_7
26.	Md80-6007	Md71-1643-82 x Desoto	F_5
27.	S78-57	V71-807 x Franklin	F_5
28.	S79-4296	Bedford x $Crawford_6$	F_5
29.	S80-257	$Williams^2$ x ($Clark^6$ x T204)	F_6
30.	Pixie	Williams x Ransom	F_5
31.	HC78-1093	L72U-2567 x Essex	F_5
32.	HC78-1119	L72U-2567 x Essex	F_5
33.	HC78-1279	L72U-2567 x Ransom	F_5
34.	HC78-1626	L72U-2567 x Ransom	F_5
35.	HC78-2509	L72U-2567 x Ransom	F_5
36.	HC78-2835	L72U-2567 x Essex	F_5
37.	HC79-1332	L72U-2567 x Essex	F_5
38.	HC79-1575	L72U-2567 x Essex	F_5
39.	HC79-1734	L72U-2567 x Essex	F_5
40.	HC79-1735	L72U-2567 x Essex	F_5
41.	HC79-1737	L72U-2567 x Essex	F_5
42.	HW8242	Hobbit EMS Isoline	M_3
43.	LN80-2096	BSR 301 x K74-108-75-169	F_4
44.	LN80-13299	K74-104-75-85 x Elf	F_4
45.	V79-2881	Hodgson x Essex	F_5
46.	V80-174B	Hodgson x Essex	F_5

PRELIMINARY TEST IV, 1983

Descriptive and Other Data

Strain	Descriptive Code			Chlorosis Score	Shattering Score	
				Ames	Eldorado	Manhattan
Franklin	PGBr	DYIb	I	3.2	3.0	1.0
Sparks (IV)	WTT	SYB1	I	1.7	4.0	1.0
Williams 82 (III)	WTT	SYB1	I	4.0	2.5	1.0
C1621	PGBr	SYGr	I	4.8	1.5	1.0
C1624	WGT	SYY	I	3.5	3.0	1.0
C1635	WTT	IYB1	I	4.2	2.0	1.0
C1637	WTBr	SYB1	I	2.5	2.5	1.0
HW8241	PTBr+T	DYB1	I	3.7	3.5	1.0
K1095	WTT	DYB1	I	2.8	2.0	1.0
K1096	WTBr	SYB1	I	3.2	1.0	1.0
Ky80-1027	PTT	DYB1	I	3.3	2.0	1.0
Ky80-1030	WTT	SYB1	I	2.3	1.5	1.0
Ky80-1154	PTT	DYB1	I	2.7	1.0	1.0
L80L-567	PTBr	SYB1	I	4.0	1.0	1.0
L80L-643	WTT	DYB1	I	3.7	2.0	1.0
LG80-754	P+WTT	SYB1	I	3.7	4.5	1.0
LN80-7787	PTBr	DYB1	I	3.8	5.0	1.0
LN80-8357	PTBr	DYB1	I	3.5	5.0	2.0
LN80-8478	PTBr	DYB1	I	2.5	5.0	1.0
LN80-8659	PTBr	DYBr+Y	I	2.7	5.0	1.0

LN80-9604	PTBr	SYB1	I	3.3	5.0	1.0
LS79-E815	PTT	DYB1	I	4.0	2.0	1.0
LS79-W1308	WGBr+T	DYBf	I	3.0	1.0	1.0
LS79-W2034	PTBr	SYB1	I	4.5	1.0	1.0
Md80-1L2I	WTBr	DYB1	I	2.7	2.0	1.0
Md80-6007	WTBr	SYB1	I	3.5	2.0	1.0
S78-57	PGT	SYIb	I	2.3	1.0	1.0
S79-4296	WTT	SYB1	D+I	4.2	1.0	1.0
S80-257	WTT	SYB1	I	2.7	1.0	1.0
Pixie	PTT	SYB1	D	2.2	1.5	1.0
HC78-1093	PTT	DYB1	D	1.8	1.0	1.0
HC78-1119	PTT	SYB1	D	2.0	1.0	1.0
HC78-1279	PTT	SYB1	D	1.8	2.0	1.0
HC78-1626	PTT	SYB1	D	2.0	1.0	1.0
HC78-2509	PTT	SYB1	D	2.0	2.5	1.0
HC78-2835	PTT	SYB1	D	2.2	3.0	1.0
HC79-1332	P+WTT	SYBr	D	1.3	1.5	1.0
HC79-1575	PTT	SYB1	D	1.3	2.5	1.0
HC79-1734	PTT	SYB1	D	2.2	1.0	1.0
HC79-1735	PTT	DYB1	D	2.3	1.5	1.0
HC79-1737	PTT	DYB1	D	2.5	2.0	1.0
HW8242	WTT	SYB1	D	3.3	1.0	1.0
LN80-2096	P+WTBr	SYB1+Br	I	3.0	2.5	1.0
LN80-13299	WTT	SYB1	D	2.3	3.5	1.0
V79-2881	PGBr	DYBf	D	1.5	1.0	1.0
V80-174B	PGT	DYIb	D	2.3	1.0	1.0

PRELIMINARY TEST IV, 1983

Disease Data

Strain	BSR Ames Plant n %	BSR Ames Stem n %	BSR Lafayette Stem n %	CR Eldorado n Score	Mottling Eldorado n Score	PR_1 Lafayette a --Reaction--	PS Queenstown a %	PS Lafayette a %	PSB Sullivan n %	SMV Lafayette a Score	Germ Lafayette %	Hard Seeds Lafayette %	Green Seeds Lafayette %
Franklin	100	43.6	80	3.4	1.5	R	1.0	7	19	4	87	3	4
Sparks (IV)	100	71.3	0	4.0	3.0	R	1.0	8	21	4M	76	0	0
Williams 82 (III)	100	81.0	60	3.0	2.0	R	1.0	5	18	4E	93	0	0
C1621	100	67.2	60	3.5	2.5	R	0.5	5	32	5E	81	5	5
C1624	90	56.5	20	4.0	3.0	R	3.0	15	7	4S	75	11	0
C1635	87.5	47.9	40	3.7	3.0	R	2.0	2	28	4M	75	3	0
C1637	100	48.8	60	5.0	3.0	R	1.0	3	36	5M	71	2	0
HW8241	100	78.6	100	4.0	3.0	R	0.5	2	13	4M	75	10	5
K1095	100	77.3	40	3.0	2.0	R	1.5	1	11	4M	58	13	0
K1096	100	68.9	40	4.0	2.5	R	2.5	5	17	3M	79	0	0
Ky80-1027	100	67.3	60	3.2	2.5	S	1.5	3	10	2M	65	18	4
Ky80-1030	100	66.7	40	2.9	2.0	S	1.0	1	9	2M	93	0	0
Ky80-1154	100	72.0	60	3.0	2.0	S	8.0	5	22	2M	91	2	1
L80L-567	-	-	60	3.4	2.0	S	2.0	1	24	4M	97	0	0
L80L-643	100	62.2	100	3.0	3.0	S	8.5	2	25	3M	87	3	0
LG80-754	100	68.9	100	3.2	3.0	S	6.5	1	13	3M	98	0	0
LN80-7787	-	-	80	5.0	3.5	R	0	1	18	3	52	22	1
LN80-8357	100	29.7	60	3.5	3.5	R	0	3	22	5	67	13	3
LN80-8478	90	26.4	60	4.5	4.0	R	0.5	0	7	5	76	7	1
LN80-8659	100	30.7	0	3.5	5.0	R	1.5	3	18	3M	64	11	4

LN80-9604	100	45.8	60	5.0	3.0	R	0.5	0	16	4M	85	6	7
LS79-E815	100	63.7	60	1.4	3.0	S	2.0	5	15	2	69	2	0
LS79-W1308	100	60.2	20	1.0	2.0	S	2.5	2	11	1	89	1	2
LS79-W2034	100	58.7	40	3.5	3.0	S	0.5	6	17	1	87	0	10
Md80-1L2I	100	75.8	20	1.0	2.5	R	3.5	9	3	2	90	5	2
Md80-6007	100	80.6	20	1.5	3.0	R	2.5	8	16	2	88	5	0
S78-57	100	81.6	0	2.7	2.0	R	1.5	0	26	1	92	0	0
S79-4296	100	76.2	20	1.5	3.0	R	0	0	6	1	87	0	1
S80-257	100	78.1	20	4.0	2.0	S	3.0	3	26	1	94	0	0
Pixie	100	89.4	40	3.0	3.0	S	1.0	2	8	5	86	1	1
HC78-1093	100	94.8	20	1.5	4.0	S	0.5	5	12	4M	69	2	3
HC78-1119	100	98.9	40	1.5	3.5	S	1.5	3	9	2	83	1	0
HC78-1279	100	98.0	60	1.5	3.0	S	0	0	20	1	86	0	0
HC78-1626	100	89.6	20	4.0	3.0	S	0	0	16	3M	88	0	0
HC78-2509	100	99.0	80	1.9	3.5	S	1.0	0	27	1	91	1	0
HC78-2835	100	92.6	60	3.5	3.0	S	1.5	2	22	2	95	0	0
HC79-1332	100	93.3	0	1.5	3.0	S	4.0	0	14	5	89	0	1
HC79-1575	100	90.2	60	1.0	4.0	S	1.5	1	8	5M	79	0	1
HC79-1734	100	93.6	60	2.9	3.5	S	2.5	0	15	5M	87	0	0
HC79-1735	100	100.0	0	2.5	4.0	S	4.5	0	17	4M	96	1	0
HC79-1737	100	94.1	0	3.5	4.0	S	1.0	0	15	3M	92	2	0
HW8242	100	90.1	40	2.5	3.0	S	1.0	0	10	5S	80	12	11
LN80-2096	100	73.8	20	2.0	3.5	R	0.5	2	18	4M	82	0	0
LN80-13299	100	79.5	20	3.2	3.0	R	0	0	12	3M	60	28	1
V79-2881	100	78.9	60	5.0	1.0	S	0	1	4	4M	84	13	1
V80-174B	100	65.6	20	4.5	2.0	S	2.0	0	12	2	81	10	1

PRELIMINARY TEST IV, 1983

Regional Summary

Strain	Yield	Rank	Maturity	Lodging	Plant Height	Seed Quality	Seed Size	Composition	
								Protein	Oil
No. of Tests	4	4	5	4	5	6	5	3	3
	bu/a	No.	Date	Score	In.	Score	g/100	%	%
Franklin	26.8	45	-0.4	1.7	40	2.8	13.4	39.8	21.9
Sparks (IV)	35.6	31	9-24.6*	2.5	40	2.6	16.3	40.8	21.8
Williams 82 (III)	36.2	29	-2.0	1.8	36	2.3	15.7	41.5	21.9
C1621	36.8	26	-0.2	2.2	35	2.9	17.5	39.1	22.4
C1624	34.8	33	-1.4	1.6	36	2.5	14.5	42.6	21.8
C1635	39.0	13	-1.8	1.6	33	2.4	17.6	42.7	21.7
C1637	34.9	32	-2.6	1.4	30	3.3	18.5	42.2	21.7
HW8241	38.3	20	-4.0	1.6	30	2.8	14.6	42.2	21.5
K1095	38.9	15	+1.8	2.1	38	2.1	12.7	42.7	19.9
K1096	36.0	30	+4.4	2.0	37	2.6	14.9	44.3	20.1
Ky80-1027	41.6	5	+3.6	1.5	33	2.1	14.3	43.8	21.3
Ky80-1030	38.6	17	+8.2	1.5	36	1.8	14.0	45.5	20.7
Ky80-1154	39.3	10	+10.4	1.8	37	2.2	16.9	44.3	20.7
L80L-567	34.6	36	+8.6	1.5	39	1.7	15.1	42.4	21.5
L80L-643	34.7	35	+1.0	1.7	36	2.2	16.4	42.9	21.3
LG80-754	38.6	17	+0.8	1.9	36	2.3	15.4	42.6	21.7
LN80-7787	33.4	38	-3.8	1.8	34	2.9	15.1	42.9	20.8
LN80-8357	26.4	46	-5.8	2.1	35	3.8	17.3	42.9	20.4
LN80-8478	34.8	33	-4.4	1.8	33	3.7	16.7	41.7	21.4
LN80-8659	32.7	40	-4.6	2.3	34	3.5	14.1	43.6	20.5

LN80-9604	28.8	44	-5.8	2.4	33	3.6	14.6	42.7	20.9
LS79-E815	29.9	43	+4.6	1.8	39	2.4	12.0	40.7	21.6
LS79-W1308	32.0	41	+2.4	1.8	38	2.5	12.6	38.2	22.4
LS79-W2034	30.2	42	+7.8	2.2	34	2.2	10.9	42.0	19.6
Md80-1L2I	39.8	9	+2.2	2.0	41	2.1	13.7	41.7	21.4
Md80-6007	37.7	22	+6.0	2.1	41	1.9	14.8	41.2	21.0
S78-57	34.6	36	+6.8	1.6	39	1.9	13.1	40.9	20.8
S79-4296	36.6	27	+14.2	2.1	42	2.4	12.8	42.7	20.3
S80-257	36.4	28	+1.4	1.7	37	1.8	14.0	41.9	21.5
Pixie	40.2	7	-0.8	1.2	20	2.0	15.9	41.2	22.4
HC78-1093	42.6	2	+2.2	1.4	21	1.9	16.9	43.4	21.4
HC78-1119	42.0	4	+3.2	1.4	21	1.9	17.6	44.1	21.3
HC78-1279	42.7	1	+0.8	1.3	21	2.1	14.0	41.5	22.5
HC78-1626	38.5	19	+0.8	1.3	21	2.3	15.0	40.2	23.2
HC78-2509	39.9	8	-0.4	1.2	22	2.3	15.0	39.9	23.4
HC78-2835	33.2	39	+0.6	1.3	20	2.3	14.5	41.2	22.1
HC79-1332	37.6	23	+2.4	1.3	23	2.4	12.8	40.7	21.8
HC79-1575	39.0	13	+1.2	1.2	22	2.3	13.1	41.7	22.1
HC79-1734	37.6	23	+4.8	1.4	20	2.3	17.8	44.1	20.8
HC79-1735	38.8	16	+3.4	1.3	20	2.3	17.4	43.9	21.4
HC79-1737	42.2	3	+1.6	1.5	22	2.4	17.0	44.0	20.9
HW8242	41.6	5	-0.8	1.2	21	2.3	14.2	38.1	24.0
LN80-2096	38.3	20	-1.2	2.0	33	2.8	16.1	43.8	20.6
LN80-13299	39.2	11	-0.8	1.4	25	2.6	18.3	44.2	21.4
V79-2881	36.9	25	-0.8	2.3	31	2.1	13.0	41.7	21.8
V80-174B	39.2	11	+1.2	2.8	29	2.1	11.3	39.7	22.6

*117 Days after planting

The small number of locations where satisfactory data were obtained limits the usefulness of the regional summary for this test. Determinate lines were the highest yielding entries in this test. Yields of several determinate lines exceeded the yield of the best check variety by at least 6 bushels per acre. These lines had excellent lodging resistance and most of them had very good seed quality.

PRELIMINARY TEST IV, 1983

Strain	Mean 4 Tests	Ill. Eldorado	Ind. Sullivan[1]	Kansas Manhattan	Kentucky Lexington[1]	Maryland Queenstown	Ohio Ripley
			YIELD (bu/a)				
Franklin	26.8	16.3	23.2	31.5	8.1	24.9	34.5
Sparks (IV)	35.6	21.0	27.7	45.9	10.8	33.5	41.9
Williams 82 (III)	36.2	29.9	28.8	42.3	8.9	30.8	41.8
C1621	36.8	26.9	22.8	50.3	11.7	31.0	39.0
C1624	34.8	24.6	23.7	39.2	12.1	35.1	40.4
C1635	39.0	28.5	19.9	49.7	7.4	34.3	43.3
C1637	34.9	25.4	21.0	45.5	6.6	29.2	39.5
HW8241	38.3	28.9	14.3	53.4	9.4	29.1	41.7
K1095	38.9	27.8	22.6	42.9	10.6	45.5	39.3
K1096	36.0	24.6	17.7	36.5	6.1	41.3	41.7
Ky80-1027	41.6	36.4	31.4	43.9	6.6	43.7	42.2
Ky80-1030	38.6	27.0	29.6	38.7	8.0	48.5	40.2
Ky80-1154	39.3	32.1	32.7	42.7	7.5	46.1	36.3
L80L-567	34.6	29.7	22.9	30.9	8.2	42.5	35.2
L80L-643	34.7	25.6	21.7	40.6	8.5	37.5	35.0
LG80-754	38.6	22.5	21.4	47.3	9.8	42.1	42.3
LN80-7787	33.4	18.4	11.0	41.2	5.9	38.1	35.8
LN80-8357	26.4	8.7	8.3	31.2	9.4	32.9	32.9
LN80-8478	34.8	18.8	11.0	40.9	10.0	37.6	42.0
LN80-8659	32.7	17.4	11.5	39.6	7.5	34.4	39.5

LN80-9604	28.8	10.9	9.8	40.5	7.7	33.9	29.9
LS79-E815	29.9	22.0	17.1	30.8	6.4	35.7	30.9
LS79-W1308	32.0	30.8	15.3	33.3	5.6	31.1	32.8
LS79-W2034	30.2	19.7	11.0	35.6	6.0	37.5	28.1
Md80-1L2I	39.8	35.5	13.0	46.3	8.8	39.9	37.5
Md80-6007	37.7	29.3	16.6	45.7	10.3	39.8	36.1
S78-57	34.6	28.4	12.8	28.1	10.1	44.3	37.7
S79-4296	36.6	33.3	14.9	38.0	7.0	41.2	33.8
S80-257	36.4	26.7	20.1	37.4	11.2	44.7	36.8
Pixie	40.2	41.7	14.3	43.6	9.6	33.8	41.6
HC78-1093	42.6	39.9	26.8	43.8	9.7	43.0	43.8
HC78-1119	42.0	42.0	25.4	41.4	11.6	43.1	41.3
HC78-1279	42.7	41.5	9.8	47.0	6.7	40.0	42.1
HC78-1626	38.5	40.1	16.0	39.5	12.8	33.0	41.5
HC78-2509	39.9	41.5	11.2	52.2	7.7	26.3	39.7
HC78-2835	33.2	37.2	13.6	33.0	13.7	27.7	35.0
HC79-1332	37.6	41.4	13.2	40.2	7.3	28.2	40.4
HC79-1575	39.0	37.1	15.6	46.0	10.8	37.9	34.9
HC79-1734	37.6	37.7	18.6	39.5	9.3	35.3	37.8
HC79-1735	38.8	40.9	18.9	42.8	7.5	33.2	38.3
HC79-1737	42.2	37.6	27.2	51.4	6.5	41.8	37.8
HW8242	41.6	43.3	29.3	44.7	5.5	37.5	41.0
LN80-2096	38.3	27.6	22.4	45.1	7.3	42.2	38.4
LN80-13299	39.2	31.8	14.6	46.4	13.1	39.2	39.5
V79-2881	36.9	28.5	14.4	34.9	8.3	45.2	39.1
V80-174B	39.2	30.7	15.3	49.5	12.6	37.3	39.4
C.V. (%)		8.9	41.3	15.3	28.7	13.4	9.0
L.S.D. (5%)		5.3	15.4	12.8	5.1	8.2	6.9
Row sp. (in.)		30	28	30	30	30	30
Rows/plot		4	3	4	4	4	4
Reps		2	2	2	2	2	2

[1] Data not included in the mean

PRELIMINARY TEST IV, 1983

Strain	Mean 4 Tests	Ill. Eldorado	Ind. Sullivan[1]	Kansas Manhattan	Kentucky Lexington[1]	Maryland Queenstown	Ohio Ripley
			YIELD RANK				
Franklin	45	44	11	42	26	46	40
Sparks (IV)	31	39	6	12	9	34	7
Williams 82 (III)	29	21	5	23	21	40	8
C1621	26	31	13	4	6	39	25
C1624	33	35	10	33	5	29	15
C1635	13	25	20	5	33	31	2
C1637	32	34	18	14	38	41	19
HW8241	20	24	33	1	18	42	9
K1095	15	28	14	20	11	3	23
K1096	30	35	23	37	42	14	9
Ky80-1027	5	14	2	17	38	7	4
Ky80-1030	17	30	3	34	27	1	17
Ky80-1154	10	17	1	22	30	2	33
L80L-567	36	22	12	44	25	10	36
L80L-643	35	33	16	27	23	23	37
LG80-754	17	37	17	7	15	12	3
LN80-7787	38	42	41	25	44	20	35
LN80-8357	46	46	46	43	18	37	42
LN80-8478	33	41	41	26	14	22	6
LN80-8659	40	43	39	30	30	30	19

LN80-9604	44	45	44	28	28	32	45
LS79-E815	43	38	24	45	41	27	44
LS79-W1308	41	19	28	40	45	38	43
LS79-W2034	42	40	41	38	43	23	46
Md80-1L2I	9	15	37	10	22	17	31
Md80-6007	22	23	25	13	12	18	34
S78-57	36	27	38	46	13	6	30
S79-4296	27	16	30	35	36	15	41
S80-257	28	32	19	36	8	5	32
Pixie	7	3	33	19	17	33	11
HC78-1093	2	9	8	18	16	9	1
HC78-1119	4	2	9	24	7	8	13
HC78-1279	1	4	44	8	37	16	5
HC78-1626	19	8	26	31	3	36	12
HC78-2509	8	4	40	2	28	45	18
HC78-2835	39	12	35	41	1	44	37
HC79-1332	23	6	36	29	34	43	15
HC79-1575	13	13	27	11	9	21	39
HC79-1734	23	10	22	31	20	28	28
HC79-1735	16	7	21	21	30	35	27
HC79-1737	3	11	7	3	40	13	28
HW8242	5	1	4	16	46	23	14
LN80-2096	20	29	15	15	34	11	26
LN80-13299	11	18	31	9	2	19	19
V79-2881	25	25	32	39	24	4	24
V80-174B	11	20	28	6	4	26	22

[1] Data not included in the mean

PRELIMINARY TEST IV, 1983

Strain	Mean 5 Tests	Ill. Eldorado	Ind. Sullivan	Kansas Manhattan	Kentucky Lexington[1]	Maryland Queenstown	Ohio Ripley
			MATURITY (date)				
Franklin	-0.4	-1	+2	-2	F	-1	0
Sparks (IV)	9-24.6	9-17	9-30	9-27	F	9-29	9-20
Williams 82 (III)	-2.0	-5	-2	0	F	0	-3
C1621	-0.2	-2	-3	0	F	+5	-1
C1624	-1.4	-4	0	-2	F	+1	-2
C1635	-1.8	-3	-8	0	F	+2	0
C1637	-2.6	-6	-9	-1	F	+4	-1
HW8241	-4.0	-8	-9	-4	F	+3	-2
K1095	+1.8	+1	-7	+7	F	+8	0
K1096	+4.4	0	+1	+4	F	+14	+3
Ky80-1027	+3.6	+2	+2	+5	F	+7	+2
Ky80-1030	+8.2	+8	+3	+8	F	+14	+8
Ky80-1154	+10.4	+9	+8	+13	F	+14	+8
L80L-567	+8.6	+10	+5	+8	F	+14	+6
L80L-643	+1.0	0	-2	+5	F	+2	0
LG80-754	+0.8	-1	-5	+4	F	+5	+1
LN80-7787	-3.8	-7	-10	-1	F	0	-1
LN80-8357	-5.8	-11	-10	-5	F	0	-3
LN80-8478	-4.4	-8	-11	-3	F	0	0
LN80-8659	-4.6	-9	-8	-2	F	-3	-1

LN80-9604	-5.8	-11	-11	-3	F	-2	-2
LS79-E815	+4.6	+7	+1	+7	F	+6	+2
LS79-W1308	+2.4	+8	-1	-2	F	+4	+3
LS79-W2034	+7.8	+8	+4	+8	F	+9	+10
Md80-1L2I	+2.2	+4	-6	+8	F	+3	+2
Md80-6007	+6.0	+10	+2	+7	F	+8	+3
S78-57	+6.8	+10	-4	+7	F	+14	+7
S79-4296	+14.2	+18	+7	+19	F	+16	+11
S80-257	+1.4	+1	-4	+7	F	+1	+2
Pixie	-0.8	0	-6	0	F	+5	-3
HC78-1093	+2.2	+4	-6	+1	F	+11	+1
HC78-1119	+3.2	+4	-4	+3	F	+11	+2
HC78-1279	+0.8	+1	-10	+3	F	+10	0
HC78-1626	+0.8	+6	-10	+3	F	+4	+1
HC78-2509	-0.4	-1	-10	+6	F	+4	-1
HC78-2835	+0.6	0	-8	-2	F	+15	-2
HC79-1332	+2.4	+3	-8	+2	F	+15	0
HC79-1575	+1.2	+1	-9	+4	F	+11	-1
HC79-1734	+4.8	+8	-4	+3	F	+14	+3
HC79-1735	+3.4	+3	-4	+3	F	+14	+1
HC79-1737	+1.6	+2	-7	+3	F	+9	+1
HW8242	-0.8	-2	-7	0	F	+6	-1
LN80-2096	-1.2	+1	-6	-1	F	+1	-1
LN80-13299	-0.8	0	-9	+3	F	+2	0
V79-2881	-0.8	0	-9	-2	F	+5	+2
V80-174B	+1.2	+3	-5	+3	F	+4	+1
Date Planted	5-13	6-1	6-14	5-25	5-28	6-8	5-14
Days to Mature	117	108	108	125	-	113	129

[1] Data not included in the mean

PRELIMINARY TEST IV, 1983

Strain	Mean 4 Tests	Ill. Eldorado	Ind. Sullivan[1]	Kansas Manhattan	Kentucky Lexington[1]	Maryland Queenstown	Ohio Ripley
			LODGING (score)				
Franklin	1.7	1.6	1.5	1.8	1.0	2.3	1.2
Sparks (IV)	2.5	3.6	2.0	2.8	1.0	2.5	1.2
Williams 82 (III)	1.8	2.0	1.5	2.0	1.0	2.0	1.0
C1621	2.2	2.9	1.5	2.3	1.0	2.3	1.2
C1624	1.6	1.5	1.3	1.5	1.0	2.5	1.0
C1635	1.6	1.2	1.0	2.0	1.0	2.0	1.0
C1637	1.4	1.1	1.0	1.5	1.0	2.0	1.0
HW8241	1.6	1.1	1.0	2.0	1.0	2.3	1.0
K1095	2.1	1.9	1.0	2.3	1.0	2.5	1.5
K1096	2.0	1.6	1.0	2.0	1.0	2.5	1.8
Ky80-1027	1.5	1.3	1.0	1.5	1.0	2.0	1.0
Ky80-1030	1.5	1.1	1.0	1.8	1.0	2.0	1.0
Ky80-1154	1.8	1.5	1.3	2.0	1.0	2.5	1.0
L80L-567	1.5	1.1	1.0	1.5	1.0	2.3	1.0
L80L-643	1.7	1.6	1.0	1.8	1.0	2.3	1.0
LG80-754	1.9	1.5	1.0	2.5	1.0	2.5	1.0
LN80-7787	1.8	1.3	1.0	2.5	1.0	2.3	1.0
LN80-8357	2.1	3.0	1.0	1.5	1.0	2.8	1.0
LN80-8478	1.8	2.3	1.0	1.8	1.0	2.0	1.2
LN80-8659	2.3	3.3	1.0	2.5	1.0	2.5	1.0

LN80-9604	2.4	3.1	1.0	2.0	1.0	2.8	1.5
LS79-E815	1.8	1.6	1.0	2.0	1.0	2.5	1.0
LS79-W1308	1.8	1.5	1.0	2.0	1.0	2.3	1.2
LS79-W2034	2.2	2.2	1.0	2.0	1.0	2.8	1.8
Md80-1L2I	2.0	2.2	1.0	2.0	1.0	2.8	1.0
Md80-6007	2.1	1.6	1.0	3.5	1.0	2.0	1.2
S78-57	1.6	1.7	1.0	1.5	1.0	2.0	1.0
S79-4296	2.1	1.9	1.0	2.8	1.0	2.3	1.5
S80-257	1.7	2.1	1.0	1.8	1.0	1.8	1.0
Pixie	1.2	1.1	1.0	1.0	1.0	1.8	1.0
HC78-1093	1.4	1.4	1.0	1.0	1.0	2.0	1.0
HC78-1119	1.4	1.3	1.0	1.0	1.0	2.3	1.0
HC78-1279	1.3	1.1	1.0	1.0	1.0	2.0	1.0
HC78-1626	1.3	1.3	1.0	1.0	1.0	2.0	1.0
HC78-2509	1.2	1.1	1.0	1.0	1.0	1.8	1.0
HC78-2835	1.3	1.3	1.0	1.0	1.0	2.0	1.0
HC79-1332	1.3	1.2	1.0	1.0	1.0	2.0	1.0
HC79-1575	1.2	1.1	1.0	1.0	1.0	1.5	1.0
HC79-1734	1.4	1.4	1.0	1.0	1.0	2.3	1.0
HC79-1735	1.3	1.3	1.0	1.0	1.0	2.0	1.0
HC79-1737	1.5	1.3	1.0	1.0	1.0	2.5	1.0
HW8242	1.2	1.1	1.0	1.0	1.0	1.5	1.0
LN80-2096	2.0	1.6	1.0	3.0	1.0	2.5	1.0
LN80-13299	1.4	1.2	1.0	1.0	1.0	2.3	1.0
V79-2881	2.3	2.1	1.0	1.5	1.0	3.0	2.5
V80-174B	2.8	3.9	2.0	2.3	1.0	3.3	1.5

[1] Data not included in the mean

PRELIMINARY TEST IV, 1983

Strain	Mean 5 Tests	Ill. Eldorado	Ind. Sullivan	Kansas Manhattan	Kentucky Lexington[1]	Maryland Queenstown	Ohio Ripley
			PLANT HEIGHT (inches)				
Franklin	40	44	40	47	25	34	36
Sparks (IV)	40	44	38	45	23	35	36
Williams 82 (III)	36	39	32	46	19	29	33
C1621	35	37	31	45	21	29	31
C1624	36	38	34	45	25	31	34
C1635	33	38	26	45	18	28	29
C1637	30	34	23	39	22	26	28
HW8241	30	31	25	40	20	26	29
K1095	38	39	32	50	24	35	33
K1096	37	40	30	47	25	34	33
Ky80-1027	33	35	29	43	19	29	28
Ky80-1030	36	37	36	44	21	35	28
Ky80-1154	37	39	36	44	24	35	29
L80L-567	39	42	33	48	22	39	31
L80L-643	36	40	32	45	22	32	30
LG80-754	36	37	32	44	26	37	29
LN80-7787	34	39	32	43	19	30	27
LN80-8357	35	40	30	43	26	32	31
LN80-8478	33	39	26	40	25	30	28
LN80-8659	34	35	27	42	20	35	29

LN80-9604	33	37	26	41	17	32	28
LS79-E815	39	42	34	50	22	37	33
LS79-W1308	38	48	30	43	19	36	34
LS79-W2034	34	42	28	40	21	34	28
Md80-1L2I	41	47	30	53	26	40	37
Md80-6007	41	46	30	54	22	38	37
S78-57	39	42	26	48	23	44	35
S79-4296	42	46	35	50	25	44	36
S80-257	37	42	32	42	23	38	30
Pixie	20	24	17	19	22	18	22
HC78-1093	21	24	18	21	18	20	23
HC78-1119	21	24	18	19	20	20	22
HC78-1279	21	25	16	20	18	21	25
HC78-1626	21	24	17	21	21	21	23
HC78-2509	22	26	18	23	23	18	23
HC78-2835	20	26	16	18	23	18	23
HC79-1332	23	26	18	25	20	21	25
HC79-1575	22	24	18	24	19	21	22
HC79-1734	20	24	18	20	19	19	21
HC79-1735	20	23	17	20	20	19	22
HC79-1737	22	24	20	22	19	21	22
HW8242	21	24	21	22	18	18	21
LN80-2096	33	34	30	43	21	29	27
LN80-13299	25	28	19	26	23	23	27
V79-2881	31	34	26	31	22	31	31
V80-174B	29	32	26	30	26	28	27

[1] Data not included in the mean

PRELIMINARY TEST IV, 1983

Strain	Mean 6 Tests	Ill. Elorado	Ind. Sullivan	Kansas Manhattan	Kentucky Lexington	Maryland Queenstown	Ohio Ripley
			SEED QUALITY (score)				
Franklin	2.8	4.3	3.5	1.5	3.0	2.8	1.5
Sparks (IV)	2.6	3.3	4.0	1.0	3.0	2.5	2.0
Williams 82 (III)	2.3	3.0	3.0	1.0	3.0	2.0	1.5
C1621	2.9	4.3	3.5	1.5	4.0	2.8	1.5
C1624	2.5	3.0	4.0	1.0	3.0	2.5	1.5
C1635	2.4	3.0	3.5	1.0	3.0	2.3	1.5
C1637	3.3	3.8	4.5	1.5	4.0	3.5	2.5
HW8241	2.8	3.0	3.5	2.0	3.0	2.5	2.5
K1095	2.1	2.3	3.5	1.0	3.0	2.0	1.0
K1096	2.6	3.3	3.5	1.5	3.0	2.5	1.5
Ky80-1027	2.1	2.3	3.0	1.0	3.0	2.3	1.0
Ky80-1030	1.8	2.0	3.0	1.0	2.0	2.0	1.0
Ky80-1154	2.2	2.3	2.5	2.0	3.0	2.3	1.0
L80L-567	1.7	2.5	2.0	1.0	2.0	1.8	1.0
L80L-643	2.2	2.8	3.0	1.0	3.0	2.0	1.5
LG80-754	2.3	3.0	3.5	1.0	3.0	1.8	1.5
LN80-7787	2.9	3.8	3.5	1.5	4.0	3.3	1.5
LN80-8357	3.8	4.0	5.0	1.5	5.0	4.5	2.5
LN80-8478	3.7	4.3	4.5	2.5	5.0	3.5	2.5
LN80-8659	3.5	4.3	5.0	1.5	5.0	1.8	3.5

LN80-9604	3.6	4.0	5.0	2.0	4.0	3.8	2.5
LS79-E815	2.4	2.5	4.0	1.5	3.0	1.8	1.5
LS79-W1308	2.5	3.5	3.0	1.5	3.0	2.3	1.5
LS79-W2034	2.2	3.3	2.0	2.0	3.0	1.8	1.0
Md80-1L2I	2.1	2.5	2.5	1.0	3.0	2.3	1.5
Md80-6007	1.9	3.0	2.0	1.0	2.0	1.8	1.5
S78-57	1.9	2.8	2.0	1.0	3.0	1.5	1.0
S79-4296	2.4	4.0	2.0	2.5	3.0	1.5	1.0
S80-257	1.8	2.5	1.5	1.0	3.0	1.5	1.0
Pixie	2.0	2.8	2.0	1.0	3.0	2.0	1.0
HC78-1093	1.9	2.3	1.5	1.0	4.0	1.8	1.0
HC78-1119	1.9	2.5	2.5	1.0	4.0	2.3	1.0
HC78-1279	2.1	2.3	4.0	1.5	2.0	2.0	1.0
HC78-1626	2.3	2.3	3.5	1.0	3.0	2.3	1.5
HC78-2509	2.3	2.3	3.0	1.5	3.0	2.3	1.5
HC78-2835	2.3	2.5	3.0	1.0	3.0	2.5	1.5
HC79-1332	2.4	2.3	3.5	1.0	3.0	2.8	1.5
HC79-1575	2.3	2.3	4.0	3.0	1.0	2.3	1.0
HC79-1734	2.3	2.3	3.0	2.0	3.0	2.3	1.0
HC79-1735	2.3	2.0	3.0	1.5	4.0	2.5	1.0
HC79-1737	2.4	2.5	3.0	2.0	4.0	2.0	1.0
HW8242	2.3	3.0	2.5	1.0	4.0	2.0	1.5
LN80-2096	2.8	4.0	4.0	1.5	3.0	2.5	1.5
LN80-13299	2.6	2.5	3.0	1.5	4.0	2.8	2.0
V79-2881	2.1	3.3	2.0	1.0	3.0	1.5	1.5
V80-174B	2.1	3.0	3.0	1.0	3.0	1.8	1.0

PRELIMINARY TEST IV, 1983

Strain	Mean 5 Tests	Ill. Eldorado	Ind. Sullivan	Kansas Manhattan	Kentucky[1] Lexington	Maryland Queenstown	Ohio Ripley
			SEED SIZE (g/100)				
Franklin	13.4	9.6	14.3	14.0	9.1	16.2	12.8
Sparks (IV)	16.3	10.9	17.9	17.1	8.5	21.2	14.5
Williams 82 (III)	15.7	11.3	15.9	17.2	9.6	20.5	13.4
C1621	17.5	12.3	17.2	20.7	12.6	21.5	15.8
C1624	14.5	11.5	12.8	15.0	9.2	18.7	14.4
C1635	17.6	12.4	17.8	17.5	9.8	23.3	16.9
C1637	18.5	12.2	17.9	18.9	9.7	25.8	17.5
HW8241	14.6	11.0	13.5	16.1	9.9	18.9	13.3
K1095	12.7	9.8	11.2	13.9	8.4	17.2	11.6
K1096	14.9	10.5	13.8	16.3	7.9	20.0	13.8
Ky80-1027	14.3	11.4	14.0	15.4	7.1	19.0	11.7
Ky80-1030	14.0	11.4	13.1	13.6	8.2	18.4	13.4
Ky80-1154	16.9	13.8	16.6	17.6	8.2	22.2	14.4
L80L-567	15.1	13.3	15.6	13.5	8.4	19.8	13.3
L80L-643	16.4	11.6	16.0	18.1	9.9	21.4	15.0
LG80-754	15.4	11.4	15.9	16.6	9.0	19.2	13.9
LN80-7787	15.1	10.0	14.9	15.3	9.9	20.3	15.1
LN80-8357	17.3	11.3	17.1	19.3	11.1	21.0	17.7
LN80-8478	16.7	11.6	14.5	17.7	13.1	21.7	17.9
LN80-8659	14.1	9.7	13.4	14.3	7.7	17.9	15.2

LN80-9604	14.6	9.8	12.5	17.9	8.5	19.1	13.7
LS79-E815	12.0	9.9	11.4	11.8	8.6	15.0	11.9
LS79-W1308	12.6	11.3	12.2	12.8	7.8	15.4	11.5
LS79-W2034	10.9	8.2	9.9	12.0	7.9	14.0	10.3
Md80-1L2I	13.7	11.5	11.6	14.9	8.4	17.5	13.1
Md80-6007	14.8	11.8	13.3	16.7	8.0	18.7	13.7
S78-57	13.1	10.7	12.1	13.0	8.7	17.2	12.7
S79-4296	12.8	12.0	12.3	12.4	8.2	15.5	11.8
S80-257	14.0	10.4	13.8	14.7	8.7	17.4	13.6
Pixie	15.9	12.2	14.1	18.1	7.9	21.1	13.8
HC78-1093	16.9	14.1	14.3	18.7	11.5	21.6	15.6
HC78-1119	17.6	14.0	16.2	19.8	10.2	22.7	15.4
HC78-1279	14.0	11.6	11.2	15.4	6.7	18.4	13.2
HC78-1626	15.0	13.2	12.4	16.5	10.5	19.4	13.5
HC78-2509	15.0	12.3	14.0	16.1	7.6	18.6	13.8
HC78-2835	14.5	10.5	13.9	16.9	8.8	18.1	13.3
HC79-1332	12.8	10.9	10.0	14.2	6.6	17.7	11.2
HC79-1575	13.1	10.6	11.4	14.8	6.7	17.6	11.0
HC79-1734	17.8	14.2	15.9	20.5	10.0	22.2	16.1
HC79-1735	17.4	13.7	15.0	19.7	10.4	23.5	15.0
HC79-1737	17.0	11.8	14.9	18.9	10.7	23.1	16.3
HW8242	14.2	11.8	13.7	14.6	6.4	18.6	12.3
LN80-2096	16.1	11.4	14.7	17.4	13.0	21.2	16.0
LN80-13299	18.3	14.0	16.3	21.8	12.1	22.5	16.8
V79-2881	13.0	8.1	11.3	16.2	7.2	16.0	13.5
V80-174B	11.3	8.0	9.9	13.0	7.4	14.2	11.5

[1] Data not included in the mean

PRELIMINARY TEST IV, 1983

Strain	Mean 3 Tests	Ill. Eldorado	Ind. Sullivan	Kansas Manhattan	Mean 3 Tests	Ill. Eldorado	Ind. Sullivan	Kansas Manhattan
	PROTEIN (%)				OIL (%)			
Franklin	39.8	41.4	42.2	35.7	21.9	22.2	19.4	24.2
Sparks (IV)	40.8	41.3	42.5	38.7	21.8	21.4	20.9	23.1
Williams 82 (III)	41.5	41.7	43.4	39.5	21.9	21.9	20.8	22.9
C1621	39.1	39.2	41.7	36.3	22.4	22.1	20.4	24.7
C1624	42.6	42.7	45.0	40.1	21.8	21.6	19.8	23.9
C1635	42.7	42.5	45.0	40.5	21.7	21.3	21.2	22.6
C1637	42.2	42.8	44.1	39.7	21.7	21.4	21.1	22.7
HW8241	42.2	42.5	43.9	41.3	21.5	21.5	21.0	22.0
K1095	42.7	43.1	44.8	40.3	19.9	20.0	18.8	21.0
K1096	44.3	44.6	46.6	41.8	20.1	19.9	18.4	21.9
Ky80-1027	43.8	44.6	45.8	40.9	21.3	21.3	19.6	23.0
Ky80-1030	45.5	43.3	44.1	39.1	20.7	20.0	19.4	22.6
Ky80-1154	44.3	45.2	45.3	42.3	20.7	20.5	19.5	22.2
L80L-567	42.4	42.8	45.1	39.2	21.5	21.6	20.0	23.0
L80L-643	42.9	43.1	45.7	39.8	21.3	21.6	19.9	22.5
LG80-754	42.6	42.0	45.3	40.4	21.7	21.6	20.0	23.5
LN80-7787	42.9	43.4	45.6	39.6	20.8	20.4	19.7	22.2
LN80-8357	42.9	43.0	44.5	41.1	20.4	19.5	20.0	21.8
LN80-8478	41.7	42.8	43.5	38.8	21.4	21.5	19.9	22.9
LN80-8659	43.6	43.8	46.3	40.6	20.5	19.6	19.8	22.2

LN80-9604	42.7	43.6	45.4	39.1	20.9	19.8	20.0	22.8
LS79-E815	40.7	40.9	44.5	36.8	21.6	22.4	18.8	23.6
LS79-W1308	38.2	38.0	42.7	33.8	22.4	23.1	20.0	24.2
LS79-W2034	42.0	42.3	45.0	38.8	19.6	19.3	17.8	21.6
Md80-1L2I	41.7	41.9	44.1	39.2	21.4	22.2	19.2	22.9
Md80-6007	41.2	40.7	45.7	37.2	21.0	21.7	18.4	22.8
S78-57	40.9	41.7	44.6	36.5	20.8	21.4	18.5	22.5
S79-4296	42.7	42.1	45.3	40.7	20.3	21.4	18.4	21.0
S80-257	41.9	42.2	43.6	39.9	21.5	21.4	20.2	22.9
Pixie	41.2	40.0	43.5	40.0	22.4	22.5	21.1	23.5
HC78-1093	43.4	43.5	44.7	42.0	21.4	22.1	19.6	22.5
HC78-1119	44.1	43.0	46.7	42.7	21.3	21.4	20.3	22.1
HC78-1279	41.5	40.1	45.1	39.2	22.5	23.4	20.9	23.1
HC78-1626	40.2	39.7	43.0	37.8	23.2	23.4	21.8	23.5
HC78-2509	39.9	38.5	43.7	37.4	23.4	24.3	21.4	24.6
HC78-2835	41.2	41.0	43.7	39.0	22.1	21.4	21.5	23.5
HC79-1332	40.7	39.9	43.6	38.6	21.8	22.9	19.3	23.3
HC79-1575	41.7	40.1	44.9	40.2	22.1	23.0	20.8	22.5
HC79-1734	44.1	43.7	45.7	43.0	20.8	21.1	19.5	21.9
HC79-1735	43.9	41.8	46.9	43.0	21.4	22.3	19.8	22.1
HC79-1737	44.0	42.5	46.7	42.8	20.9	21.7	19.6	21.4
HW8242	38.1	37.7	41.2	35.4	24.0	23.1	22.9	26.0
LN80-2096	43.8	44.4	44.6	42.4	20.6	21.0	18.9	22.0
LN80-13299	44.2	43.7	47.0	41.8	21.4	21.7	19.3	23.3
V79-2881	41.7	42.1	43.9	39.1	21.8	21.2	20.5	23.7
V80-174B	39.7	40.2	42.9	36.1	22.6	22.1	21.2	24.6